

**WINCHESTER FREDERICK COUNTY
(WINFRED) METROPOLITAN
PLANNING ORGANIZATION (MPO)**

**Draft FY27-30
Highway Transportation
Improvement Program(TIP)**

The Draft FY27-30 Highway TIP is available for public review and comment at www.winfredmpo.org or the following locations until April 11, 2026: Northern Shenandoah Valley Regional Commission, 1729 N Shenandoah Ave, Floor 2, Front Royal, VA; Frederick County Planning Department, 107 N. Kent Street, Winchester, VA; City of Winchester Planning, 15 North Cameron Street, Winchester, VA and Town of Stephens City, 1033 Locust St., Stephens City, VA.

The Draft FY27-30 TIP is a list of projects and programs that will be implemented over the next four years. In order to receive federal funding, transportation projects must be included in the TIP.

TIP will satisfy the POP public review requirements of the Section 5307 Program in the TIP document.

The WinFred MPO ensures nondiscrimination and equal employment in all programs and activities in accordance with Title VI and Title VII of the Civil Rights Act of 1964. If you have questions or concerns about your civil rights in regard to this project or need special assistance for persons with disabilities or limited English proficiency, please contact the WinFred MPO. Please contact the WinFred MPO at 540-636-8800 if you need assistance accessing this document or any related materials.

Winchester MPO Interstate Projects

UPC NO	115717	SCOPE	Bridge Replacement W/ Added Capacity			
SYSTEM	Interstate	JURISDICTION	Frederick County	OVERSIGHT	NFO	
PROJECT	#SMART20 I-81 EXIT 313 BRIDGE CAPACITY IMPROVMENT			ADMIN BY	VDOT	
DESCRIPTION	FROM: Bridge Replacement over I-81 TO: And interchange Improvements (0.3900 MI)					
ROUTE/STREET	0081	TOTAL COST			\$9,233,237	
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
		\$0	\$0	\$0	\$0	\$0

UPC NO	124012	SCOPE	Reconstruction W/ Added Capacity			
SYSTEM	Interstate	JURISDICTION	Frederick County	OVERSIGHT	NFO	
PROJECT	#SMART24 I-81 EXIT 317 INTERCHANGE IMPROVEMENTS			ADMIN BY	VDOT	
DESCRIPTION	FROM: Exit 317 TO: Interchange improvements (0.2500 MI)					
ROUTE/STREET	0081	TOTAL COST			\$32,006,075	
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
RW	Federal - AC CONVERSION	\$0	\$934,795	\$0	\$0	\$0
CN	Federal - AC CONVERSION	\$0	\$0	\$11,109,708	\$0	\$0
	Federal - NHS/NHPP	\$0	\$7,773,971	\$0	\$0	\$0
CN TOTAL		\$0	\$7,773,971	\$11,109,708	\$0	\$0
CN AC	Federal - AC	\$0	\$11,109,708	\$0	\$0	\$0
	Federal - AC OTHER	\$0	\$6,016,724	\$0	\$0	\$0
CN AC		\$0	\$17,126,432	\$0	\$0	\$0

UPC NO	126389	SCOPE	Reconstruction W/ Added Capacity			
SYSTEM	Interstate	JURISDICTION	Frederick County	OVERSIGHT	NFO	
PROJECT	#I81CIP NB & SB MM 312 TO 317, 3 LANE WIDENING (ID #63)			ADMIN BY	VDOT	
DESCRIPTION	FROM: MM 312.2 TO: MM 317.0 (4.8000 MI)					
ROUTE/STREET	I-81 (0081)	TOTAL COST			\$285,947,947	
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
RW AC	Federal - AC OTHER	\$0	\$0	\$10,518,300	\$0	\$0

UPC NO	116281	SCOPE	Reconstruction W/ Added Capacity			
SYSTEM	Interstate	JURISDICTION	Frederick County	OVERSIGHT	FO	
PROJECT	#I81CIP NB&SB BRDGE REPL & 3-LANE WIDENING EXIT 317 (ID #63)			ADMIN BY	VDOT	
DESCRIPTION	FROM: MM 317.0 TO: MM 318.8 (1.8000 MI)					
ROUTE/STREET	0081	TOTAL COST			\$193,921,179	
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
CN AC	Federal - AC OTHER	\$0	\$0	\$0	\$177,800,155	\$0

Winchester MPO Primary Projects

UPC NO	110396	SCOPE				
SYSTEM	Primary	JURISDICTION	Frederick County	OVERSIGHT	NFO	
PROJECT	#HB2.FY17 RTE 277 - WIDEN TO 5 LANES GARVEE DEBT SERVICE			ADMIN BY	VDOT	
DESCRIPTION						
ROUTE/STREET	0277			TOTAL COST	\$9,713,164	
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - AC CONVERSION	\$0	\$0	\$632,364	\$545,981	\$455,241
	Federal - STP/STBG	\$0	\$714,596	\$0	\$0	\$0
PE TOTAL		\$0	\$714,596	\$632,364	\$545,981	\$455,241
PE AC	Federal - AC	\$0	\$2,763,997	\$0	\$0	\$0

Winchester MPO Miscellaneous Projects

To be removed from TIP

UPC NO	T29917	SCOPE	Other			
SYSTEM	Miscellaneous	JURISDICTION	Statewide		OVERSIGHT	NFO
PROJECT	TRANSFORMING RAIL IN VIRGINIA / VPRA				ADMIN BY	VPRA
DESCRIPTION	FROM: DC Rte 47, and Rte 51 TO: Newport News, Richmond					
PROGRAM NOTE	Child UPC of Parent UPC 124309 All funds obligated based on current allocations/estimate.					
ROUTE/STREET	9999				TOTAL COST	\$117,574,889
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
		\$0	\$0	\$0	\$0	\$0

To be removed from TIP

UPC NO	120532	SCOPE	Other			
SYSTEM	Miscellaneous	JURISDICTION	Statewide		OVERSIGHT	NFO
PROJECT	#SMART22 #I81CIP - INTERCITY RAIL SERVICE EXPANSION				ADMIN BY	VPRA
DESCRIPTION	FROM: Western Rail Initiative: Rte 46 DC TO: Roanoke					
PROGRAM NOTE	All funds obligated based on current allocations/estimate.					
ROUTE/STREET	NA (9999)				TOTAL COST	\$257,200,000
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
		\$0	\$0	\$0	\$0	\$0

To be removed from TIP

UPC NO	124309	SCOPE	Other			
SYSTEM	Miscellaneous	JURISDICTION	Statewide		OVERSIGHT	NFO
PROJECT	Transforming Rail in Virginia - VRE Operations Costs / VPRA				ADMIN BY	VPRA
DESCRIPTION	FROM: DC Rte 46 and Rte 50 TO: Roanoke, Newport News, Norfolk and Richmond					
ROUTE/STREET	9999				TOTAL COST	\$42,750,000
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - CMAQ	\$3,711,302	\$9,852,982	\$4,992,225	\$0	\$0

Based on MPO and VDOT staff review of the draft FY27-30 TIP, the Miscellaneous Rail Projects listed above are statewide initiatives that are not in the WinFred MPO area. These projects will be removed from the final MPO TIP document.

Winchester MPO

Project Groupings

GROUPING		Construction : Bridge Rehabilitation/Replacement/Reconstruction				
ROUTE/STREET					TOTAL COST	\$51,433,033
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
CN	Federal - NHS/NHPP	\$0	\$7,501,126	\$0	\$0	\$0

GROUPING		Construction : Rail				
ROUTE/STREET					TOTAL COST	\$1,055,368
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
CN	Federal - STP/STBG	\$0	(\$30,000)	\$0	\$0	\$0

GROUPING		Construction : Safety/ITS/Operational Improvements				
ROUTE/STREET					TOTAL COST	\$182,863,157
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - AC CONVERSION	\$0	\$0	\$0	\$2,165,016	\$0
	Federal - HSIP	\$0	\$90,000	\$0	\$0	\$0
	Federal - NHS/NHPP	\$0	(\$247,140)	\$0	\$0	\$2,165,016
	Federal - STP/STBG	\$0	\$41,196	\$0	\$0	\$0
PE TOTAL		\$0	(\$115,944)	\$0	\$2,165,016	\$2,165,016
PE AC	Federal - AC	\$0	\$2,165,016	\$0	\$0	\$0
RW	Federal - NHS/NHPP	\$0	\$209,003	\$0	\$0	\$0
CN	Federal - HSIP	\$0	\$2,757,233	\$0	\$0	\$0
	Federal - NHS/NHPP	\$0	\$3,518,004	\$0	\$0	\$0
	Federal - STP/STBG	\$0	\$623,921	\$0	\$0	\$0
CN TOTAL		\$0	\$6,899,158	\$0	\$0	\$0

GROUPING		Construction : Transportation Alternatives/Byway/Non-Traditional				
ROUTE/STREET					TOTAL COST	\$23,688,446
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - CRP/F	\$0	\$0	(\$50,000)	\$0	\$0
	Federal - TAP/F	\$0	\$45,215	\$0	\$0	\$0
PE TOTAL		\$0	\$45,215	(\$50,000)	\$0	\$0
RW	Federal - TAP/F	\$0	\$731,783	\$0	\$0	\$0
CN	Federal - HSIP	\$0	\$107,050	\$0	\$0	\$0
	Federal - STP/STBG	\$0	\$228,575	\$0	\$0	\$0
	Federal - TAP/F	\$0	\$863,149	\$160,023	\$0	\$0
CN TOTAL		\$0	\$1,198,774	\$160,023	\$0	\$0

GROUPING		Maintenance : Preventive Maintenance and System Preservation				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	\$52,672,785
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - NHS/NHPP	\$0	\$9,852,845	\$2,264,000	\$2,268,000	\$2,278,000
	Federal - STP/STBG	\$0	\$8,831,721	\$8,331,000	\$8,345,000	\$8,381,000
PE TOTAL		\$0	\$18,684,566	\$10,595,000	\$10,613,000	\$10,659,000
CN	Federal - STP/STBG	\$0	\$0	\$1,000,250	\$1,120,969	\$0

GROUPING		Maintenance : Preventive Maintenance for Bridges				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	\$20,222,498
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - BR	\$0	\$361,498	\$0	\$0	\$0
	Federal - NHS/NHPP	\$0	\$739,000	\$741,000	\$742,000	\$746,000
	Federal - STP/STBG	\$0	\$4,207,000	\$4,218,000	\$4,225,000	\$4,243,000
PE TOTAL		\$0	\$5,307,498	\$4,959,000	\$4,967,000	\$4,989,000

GROUPING		Maintenance : Traffic and Safety Operations				
PROGRAM NOTE		Funding identified to be obligated districtwide as projects are identified.				
ROUTE/STREET					TOTAL COST	\$1,879,000
	FUND SOURCE	MATCH	FY27	FY28	FY29	FY30
PE	Federal - STP/STBG	\$0	\$468,000	\$469,000	\$470,000	\$472,000

Appendix A

Projects by Grouping

Winchester MPO

Construction : Bridge Rehabilitation/Replacement/Reconstruction

	System	UPC Jurisdiction / Name / Description	Street(Route)	Estimate
Interstate	113535	Frederick County #SGR19VB - RT 17/50/522 MILLWOOD PIKE BRIDGE OVER I-81 FROM: 0.208 Mi. E. Int. Apple Blossom Dr. TO: 0.049 Mi. E. Int. Tulane Dr. (0.4220 MI)	MILLWOOD PIKE (0017)	\$47,812,766
Miscellaneous	T18994	Staunton District-wide BRIDGE REHABILITATION/REPLACEMENT	0000	\$0
Primary	78825	Frederick County Route 522, Fred. Co., Str. ID 08156 Brg Repl. Fed ID-08156 FROM: 0.85 Mi. North of Rte. 642 TO: 0.05 Mi. North of Rte. 644 (0.4520 MI)	0522	\$3,620,267
Construction : Bridge Rehabilitation/Replacement/Reconstruction Total				\$51,433,033

Construction : Rail

	System	UPC Jurisdiction / Name / Description	Street(Route)	Estimate
Miscellaneous	T18981	Staunton District-wide CN: RAIL	0000	\$0
Secondary	113063	Frederick County Rt.631-Install Flashing Lights and Gates FROM: 18 Ft. E Of Rabbit Ln. TO: at CSXRR Crossing #139462A	631 / MARLBORO RD. (0631)	\$374,249
Secondary	114900	Frederick County Rt.664- Upgrade to Flashing Lights and Gates FROM: .13 Mi. East of Rt. 11 TO: at CSXRR Crossing DOT #139435H	RT. 664 / STEPHENSON RD. (0664)	\$397,546
Urban	113065	Winchester S. Loudon St.-Install Concrete crossing Surface FROM: 165 FT N of Featherbed Ln. TO: at WWRR Crossing #868160N	SOUTH LOUDON STREET (5209)	\$283,573
Construction : Rail Total				\$1,055,368

Construction : Safety/ITS/Operational Improvements

	System	UPC Jurisdiction / Name / Description	Street(Route)	Estimate
Interstate	112900	Frederick County I-81 - INSTALL HIGH TENSION CABLE BARRIER FROM: MM 304.9 TO: MM 324.2 (19.3000 MI)	R-VA IS00081NB (0081)	\$3,763,755
Interstate	115181	Frederick County #SMART20 I-81 Exit 317 Accel/Decel Lane Extensions FROM: Northbound acceleration TO: Southbound deceleration (0.2500 MI)	0081	\$2,777,610
Interstate	120642	Frederick County EXIT 317 NB RAMP REALIGNMENT TO REDBUD ROAD LOCATION FROM: NB Exit Ramp Realignment TO: Redbud Road Relocation (0.1600 MI)	0081	\$5,873,893
Interstate	126357	Frederick County #ITTF25 FIBER I-81 STAUNTON NORTH GAP ST02 FROM: I-81 and I-66 Exit 300 TO: I-81 and Berryville Pike Exit 315 (15.3000 MI)	I-81 (0081)	\$7,882,490

Winchester MPO

Construction : Safety/ITS/Operational Improvements

	System	UPC	Jurisdiction / Name / Description	Street(Route)	Estimate
Interstate	116327	Staunton District-wide	0081		\$1,390,125
			#I81CIP MAINTENANCE - NEW CMS & CAMERAS O&M FY20-27 STAUNTON		
			FROM: various TO: various		
Interstate	116329	Staunton District-wide	0081		\$123,873
			#I81CIP MGMT FEE FOR NEW CMS & CAMERAS O&M FY20-27 STAUNTON		
			FROM: Various TO: Various		
Interstate	116331	Staunton District-wide	0081		\$1,239,002
			#I81CIP O&M TOC FLOOR OPERATIONS STAUNTON		
			FROM: various TO: various		
Interstate	116384	Staunton District-wide	0081		\$10,929,801
			#I81CIP O&M SSP FY21-27 STAUNTON		
			FROM: Various TO: Various		
Interstate	119159	Staunton District-wide	0081		\$3,147,324
			#I81CIP TOWING SERVICES FY22-27 TRIP PROGRAM STAUNTON		
			FROM: Various TO: Various		
Interstate	115854	Statewide	9999		\$0
			#ITTF20 ARTERIAL OPERATIONS PROGRAM DASHBOARD		
			FROM: n/a TO: n/a		
Interstate	119199	Statewide	9999		\$500,000
			#ITTF22 STUDY FOR SMARTER LIGHTING INITIATIVE STATEWIDE		
			FROM: Various TO: Various		
Interstate	119332	Statewide	9999		\$300,000
			#ITTF22 DATA-DRIVEN MGMT PROGRAM FOR PAVEMENT MARKING		
			FROM: Various TO: Various		
Interstate	121564	Statewide	9999		\$0
			#ITTF23 LEVERAGING CONNECTED CAR DATA FOR IMPROVED SAFETY		
			FROM: Various TO: Various		
Interstate	121667	Statewide	9999		\$0
			#ITTF23 RM3P DEP Data Services		
			FROM: Various TO: Various		
Interstate	121670	Statewide	9999		\$500,000
			#ITTF23 ADVANCED ROAD WEATHER INFORMATION SYSTEMS STUDY		
			FROM: VARIOUS TO: VARIOUS		
Interstate	122048	Statewide	VARIOUS (9999)		\$500,000
			#ITTF23 - RM3P SYSTEM MONITORING & ENHANCEMENTS		
			FROM: various TO: various		
Miscellaneous	T18993	Staunton District-wide	0000		\$0
			CN: SAFETY/ITS/OPERATIONAL/IMPROVEMENTS		
Miscellaneous	121643	Statewide	9999		\$1,000,000
			#ITTF23 SMART INTERSECTIONS DEPLOYMENT SUPPORT		
			FROM: Various TO: Various		
Miscellaneous	120765	Staunton District-wide	9999		\$0
			SYSTEMIC ROAD DEPARTURE COUNTERMEASURES WITH RUMBLE STRIPS		
			FROM: Various TO: Various		