



COMMONWEALTH of VIRGINIA

Commonwealth Transportation Board

W. Sheppard Miller, III
Chairperson

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Agenda item # 10

RESOLUTION OF THE COMMONWEALTH TRANSPORTATION BOARD

December 6, 2022

MOTION

Made By: Mr. Byers, Seconded By: Dr. Smoot

Action: Motion Carried, Unanimously

Title: Approval of Special Structures Program 50-Year Long-Term Plan Update

WHEREAS, Chapters 83 and 349, of the 2019 Acts of Assembly required the Commonwealth Transportation Board (“the Board”) to undertake a comprehensive review (the “Comprehensive Review”) of the current and future condition of pavements and bridges in the Commonwealth, specifying that the review, among other things, include a plan to address the funding needs of large and unique bridges and tunnel structures in the Commonwealth; and

WHEREAS, Chapters 83 and 349, of the 2019 Acts of Assembly required the Board to provide a report regarding the Comprehensive Review to the General Assembly (“Comprehensive Review Report”); and

WHEREAS, the Board supported VDOT’s recommendation regarding development of a Special Structures health index and risk-based prioritization of projects and directed VDOT to present said prioritization to the Board, and further directed the Commissioner of Highways to report on an annual basis the (i) projected and actual performance of the pavements, structures and Special Structures and (ii) planned and accomplished routine maintenance work; and

WHEREAS, Subsequent to publication of the Comprehensive Review Report Chapters 1230 and 1275 of the 2020 Acts of Assembly established §33.2-374 of the *Code of Virginia* which sets forth the Special Structure Program; and

WHEREAS, §33.2-374 (C) of the *Code of Virginia* requires the Commonwealth Transportation Board to: (1) establish a program for the maintenance, rehabilitation and replacement of special structures; and (2) develop and maintain, with assistance of the Department of Transportation, a plan covering a minimum of 30 years, to be updated biennially in even numbered years; and

WHEREAS, pursuant to the requirements in §33.2-374 (C) the Department of Transportation presented to the Board the Special Structures Program 50-Year Long-Term Plan, which the Board approved by resolution dated October 20, 2021; and

WHEREAS, in its resolution dated October 20, 2021, the Board further required the Commissioner of Highways to present the Special Structures Program 50-Year Long-Term Plan with any updates to the Board annually for approval; and

WHEREAS, the Department of Transportation drafted an updated Special Structures Program 50-Year Long-Term Plan and presented the updated draft Plan to the Board on October 25, 2022.

NOW, THEREFORE, BE IT RESOLVED, that the Board approves the Special Structure Program 50-Year Long-Term Plan as updated and set forth in Attachment A and further directs the Commissioner of Highways to present any updates to the Plan no less than annually to the Board for its approval.

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CTB Decision Brief

Approval of Special Structures Program – 50-Year Long-Term Plan Update

Issue: Section 33.2-374 of the *Code of Virginia*, requires the Commonwealth Transportation Board (Board) establish (i) a program for the maintenance, rehabilitation and replacement of special structures and (2) develop and maintain, with assistance of the Department of Transportation, a plan covering a minimum of 30 years, which plan must be updated biennially no later than November 1 of even-numbered years.

Facts: Chapters 83 and 349 of the 2019 Acts of Assembly required the Commonwealth Transportation Board (“the Board”) to undertake a comprehensive review (the “Comprehensive Review”) of the current and future condition of pavements and bridges in the Commonwealth, specifying, among other things, that the review include a plan to address the funding needs of large and unique bridges and tunnel structures in the Commonwealth. Chapters 83 and 349 of the 2019 Acts of Assembly further required the Board to provide a report regarding the Comprehensive Review to the General Assembly, and the Board approved the Comprehensive Review Report by resolution dated December 11, 2019.

In its December 11, 2019 resolution, the Board also supported VDOT’s recommendation that it develop a Special Structures health index and risk-based prioritization of projects and requested that VDOT present said prioritization to the Board, and further directed the Commissioner of Highways to report on an annual basis the (i) projected and actual performance of the pavements, structures and Special Structures and (ii) planned and accomplished routine maintenance work.

Subsequent to publication of the Comprehensive Review Report, Chapters 1230 and 1275 of the 2020 Acts of Assembly established §33.2-374 of the *Code of Virginia*, which sets forth the Special Structure Program and requires the Board to: (1) establish a program for the maintenance, rehabilitation and replacement of special structures; and (2) develop and maintain, with assistance of the Department of Transportation, a plan (Special Structure Plan) covering a minimum of 30 years, to be updated biennially in even-numbered years. By resolution dated October 20, 2021, the Board approved a Special Structure Program 50 -year Long-Term Plan pursuant to §33.2-374.

Even though §33.2-374 only requires that the Special Structure Plan be updated biennially in even numbered years, the Board, in its October 20, 2021 resolution, called for more frequent updates, requiring VDOT to present to the Board a Special Structure Program 50-year Long-Term Plan with any updates annually for Board approval. (the “50-Year Long-Term Plan”).

VDOT presented the updated 50-Year Long-Term to the Board on October 25, 2022, and the updated 50-Year Long-Term Plan is attached as Attachment A.

Recommendation: VDOT recommends approval by the Board of the Special Structure Program 50-Year Long-Term Plan as revised and set forth in Attachment A and that any updates continue to be presented to the Board no less than annually.

Action Required by CTB: The *Code of Virginia* requires a majority of the Board’s members to approve the Special Structure Program 50-Year Long Term Plan.

Result if Approved: N/A

Options: Approve, Deny or Defer

Public Comments/Reaction: N/A

ATTACHMENT A

Special Structures Long Term Plan Bristol District									
Special Structure	Program	Work Description	Previous	By Fiscal Year (\$ in Millions)					
				2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Big Walker Mountain Tunnel	Special Structure Fund	Alarms	0.3	16.9	-	-	-	-	
		Cameras (CCTV)	0.2	-	-	-	-		
		Maintenance	-	13.6	5.7	4.9	30.3	55.8	
		Mechanical and Electrical Rehabilitation	0.0	1.0	-	-	-		
		Median Crossovers	0.3	1.4	-	-	-		
		Rehabilitation	1.0	17.7	0.6	9.6	59.9	18.9	
		Supervisory Control and Data Acquisition System Control	0.3	-	-	-	-		
		Lighting	-	9.9	-	-	-		
		Ventilation	1.5	26.6	-	-	-		
		Central Traffic Control System	-	0.2	-	-	-		
		Special Structure Fund Total		\$ 3.6	\$ 87.4	\$ 6.3	\$ 14.5	\$ 90.2	\$ 74.8
	Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 3.5	\$ 34.7	\$ 34.7	\$ 34.7	\$ 34.7	
Big Walker Mountain Tunnel Total			\$ 7.1	\$ 122.1	\$ 41.0	\$ 49.2	\$ 124.9	\$ 109.5	

Special Structures Long Term Plan Bristol District									
Special Structure	Program	Work Description	Previous	By Fiscal Year (\$ in Millions)					
				2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
East River Mountain Tunnel	Special Structure Fund	Alarms	0.3	1.0	-	-	-	-	
		Cameras (CCTV)	0.2	-	-	-	-		
		Cross Passage Upgrades	-	0.8	-	-	-		
		Generator Replacement	-	0.8	-	-	-		
		Maintenance	-	3.8	7.6	30.1	86.3	39.7	
		Mechanical and Electrical Rehabilitation	0.0	7.6	-	-	-		
		Median Crossovers	0.3	3.0	-	-	-		
		Rehabilitation	0.3	6.8	1.7	45.2	113.3	49.7	
		Supervisory Control and Data Acquisition System Control	0.3	-	-	-	-		
		Lighting	0.0	2.0	-	-	-		
		HAZMAT Placard Reader	-	2.9	-	-	-		
		Building Maintenance	-	0.1	-	-	-		
		Ventilation	1.7	2.3	-	-	-		
	Central Traffic Control System	-	0.2	-	-	-			
Special Structure Fund Total		\$ 3.0	\$ 31.5	\$ 9.4	\$ 75.3	\$ 199.5	\$ 89.4		
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 3.7	\$ 37.4	\$ 37.4	\$ 37.4	\$ 37.4		
East River Mountain Tunnel Total			\$ 6.8	\$ 68.9	\$ 46.8	\$ 112.7	\$ 236.9	\$ 126.8	

Special Structures Long Term Plan Bristol District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
460 Connector	Special Structure Fund	Deck Rehabilitation	0.1	2.0	-	-	-	-	-
		Structural Health Monitoring	0.0	1.5	-	-	-	-	-
		Maintenance	-	0.1	1.0	1.2	1.4	1.8	
		Rehabilitation	-	-	3.9	0.5	9.6	33.6	
	Special Structure Fund Total		\$ 0.1	\$ 3.6	\$ 4.9	\$ 1.7	\$ 11.1	\$ 35.5	
	Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)		\$ 0.3	\$ 2.5	\$ 2.5	\$ 2.5	\$ 2.5	\$ 2.5	
	460 Connector Total		\$ 0.4	\$ 6.1	\$ 7.4	\$ 4.2	\$ 13.6	\$ 38.0	
	Bristol District Total		\$ 14.2	\$ 197.1	\$ 95.1	\$ 166.0	\$ 375.4	\$ 274.3	

Special Structures Long Term Plan Salem District								
Special Structure	Program	Work Description	By Fiscal Year (\$ in Millions)					
			Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072
SMART Road	Special Structure Fund	Rehabilitation	-	-	-	-	-	13.9
		Maintenance	-	0.1	-	-	-	0.6
		Structural Health Monitoring	0.0	1.4	-	-	-	-
	Special Structure Fund Total	\$ 0.0	\$ 1.4	\$ -	\$ -	\$ -	\$ -	\$ 14.6
	Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)		\$ 0.1	\$ 1.2	\$ 1.2	\$ 1.2	\$ 1.2	\$ 1.2
	<i>SMART Road Total</i>		\$ 0.1	\$ 2.6	\$ 1.2	\$ 1.2	\$ 1.2	\$ 15.8
	<i>Salem District Total</i>		\$ 0.1	\$ 2.6	\$ 1.2	\$ 1.2	\$ 1.2	\$ 15.8

Special Structures Long Term Plan Richmond District							By Fiscal Year (\$ in Millions)			
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 -2072		
Benjamin Harrison	Special Structure Fund	Clearance Gauge Signs	-	0.1	-	-	-	-		
		Deck Rehabilitation	0.5	-	-	-	-			
		Fender	0.4	12.6	-	-	-			
		Generator Replacement	1.9	4.7	-	-	-			
		Joint Rehab	-	2.3	-	-	-			
		Maintenance	-	1.3	3.8	-	0.1	33.0		
		Mechanical and Electrical Rehabilitation	0.3	0.3	-	-	-			
		Span Lock Replacement	0.3	3.3	-	-	-			
		Substructure Rehabilitation	-	1.4	-	-	-			
		Upgrade Controls	-	0.6	-	-	-			
		Drives and Machinery	-	18.7	-	-	-			
		Air Buffer	-	0.9	-	-	-			
		Structure Replacement	-	-	-	278.3	191.7	-		
		Cables	3.6	4.6	-	-	-			
		Rehabilitation	-	-	-	9.0	-	39.4		
Special Structure Fund Total			\$ 6.9	\$ 50.7	\$ 3.8	\$ 287.3	\$ 191.8	\$ 72.4		
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 2.0	\$ 19.9	\$ 19.9	\$ 19.9	\$ 19.9	\$ 19.9		
Benjamin Harrison Bridge Total			\$ 8.8	\$ 70.6	\$ 23.7	\$ 307.2	\$ 211.7	\$ 92.3		

Special Structures Long Term Plan Richmond District							By Fiscal Year (\$ in Millions)			
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 -2072		
Varina-Enon	Special Structure Fund	Deck Rehabilitation	2.3	7.6	-	-	-	-		
		Maintenance	0.1	7.4	18.8	1.7	1.9	84.1		
		Rehabilitation	0.3	28.2	31.5	41.0	33.2	38.7		
		Substructure Rehabilitation	0.2	0.9	-	-	-	-		
		Trough Replacement	0.8	-	-	-	-	-		
		Main Span Platform	0.1	0.8	-	-	-	-		
		Communication System Upgrade	0.1	0.6	-	-	-	-		
		Special Structure Fund Total			\$ 3.8	\$ 45.4	\$ 50.4	\$ 42.7	\$ 35.0	\$ 122.8
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 1.6	\$ 16.2	\$ 16.2	\$ 16.2	\$ 16.2	\$ 16.2		
Varina-Enon Bridge Total			\$ 5.4	\$ 61.6	\$ 66.6	\$ 58.9	\$ 51.2	\$ 139.0		
Richmond District Total			\$ 14.2	\$ 132.2	\$ 90.3	\$ 366.1	\$ 263.0	\$ 231.3		

Special Structures Long Term Plan Hampton Roads District									
Special Structure	Program	Work Description	Previous	By Fiscal Year (\$ in Millions)					
				2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Hampton Roads Bridge Tunnel	Special Structure Fund	Alarms	-	1.5	-	-	-	-	-
		Deck Rehabilitation	2.3	6.8	-	-	-	-	-
		Maintenance	-	0.1	7.3	7.6	56.8	225.6	-
		Ventilation	1.4	1.4	-	-	-	-	-
		Communications Control Upgrade	-	0.8	-	-	-	-	-
		Rehabilitation - Overheight	0.9	175.4	-	-	-	-	-
		Rehabilitation	-	-	1.0	1.2	1.5	178.3	-
		Special Structure Fund Total		\$ 4.5	\$ 185.9	\$ 8.3	\$ 8.9	\$ 58.3	\$ 403.9
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 14.4	\$ 213.5	\$ 243.5	\$ 243.5	\$ 243.5	\$ 243.5	
Hampton Roads Bridge Tunnel Total			\$ 18.9	\$ 399.4	\$ 251.8	\$ 252.4	\$ 301.8	\$ 647.4	

Special Structures Long Term Plan Hampton Roads District									
Special Structure	Program	Work Description	Previous	By Fiscal Year (\$ in Millions)					
				2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Monitor-Merrimac Memorial Bridge Tunnel	Special Structure Fund	Alarms	-	6.4	-	-	-	-	-
		Cameras (CCTV)	-	0.8	-	-	-	-	-
		Maintenance	-	1.5	92.2	139.4	93.5	171.2	-
		Mechanical and Electrical Rehabilitation	-	29.9	-	-	-	-	-
		Rehabilitation	-	-	110.6	46.0	325.2	292.6	-
		Waterproofing - Superstructure & Substructure	-	0.4	-	-	-	-	-
		Communication System Upgrade	-	0.8	-	-	-	-	-
		Pumps	-	1.4	-	-	-	-	-
Special Structure Fund Total		\$ -	\$ 41.1	\$ 202.8	\$ 185.3	\$ 418.8	\$ 463.7		
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 10.7	\$ 107.2	\$ 107.2	\$ 107.2	\$ 107.2	\$ 107.2	
Monitor-Merrimac Memorial Bridge Tunnel Total			\$ 10.7	\$ 148.3	\$ 310.0	\$ 292.5	\$ 526.0	\$ 570.9	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Berkley	Special Structure Fund	Deck Rehabilitation	0.9	8.1	-	-	-	-	-
		Fender	-	21.2	-	-	-	-	-
		Generator Replacement	0.1	12.6	-	-	-	-	-
		Maintenance	-	5.4	6.7	0.3	37.4	90.4	-
		Mechanical and Electrical Rehabilitation	0.0	60.0	-	-	-	-	-
		Drives and Machinery	0.1	0.2	-	-	-	-	-
		Central Traffic Control System	-	4.8	-	-	-	-	-
		Rehabilitation	-	-	67.7	9.6	215.0	21.7	-
Special Structure Fund Total			\$ 1.1	\$ 112.3	\$ 74.4	\$ 9.9	\$ 252.4	\$ 112.1	
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 1.5	\$ 14.5	\$ 14.5	\$ 14.5	\$ 14.5	\$ 14.5	
Berkley Bridge Total			\$ 2.5	\$ 126.8	\$ 88.9	\$ 24.4	\$ 266.9	\$ 126.6	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Chincoteague	Special Structure Fund	Fender	-	0.4	-	-	-	-	-
		Maintenance	-	0.9	0.5	-	6.5	-	
		Rehabilitation	-	-	0.9	-	42.9	8.9	-
		Special Structure Fund Total			\$ -	\$ 1.3	\$ 1.4	\$ -	\$ 49.4
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 0.7	\$ 6.5	\$ 6.5	\$ 6.5	\$ 6.5	\$ 6.5	
Chincoteague Bridge Total			\$ 0.7	\$ 7.8	\$ 7.9	\$ 6.5	\$ 55.9	\$ 15.4	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Coleman	Special Structure Fund	Maintenance	-	3.0	15.5	11.5	14.6	105.7	-
		Mechanical and Electrical Rehabilitation	0.2	4.6	-	-	-	-	-
		Movable grating	-	2.9	-	-	-	-	-
		Rehabilitation	-	9.3	129.2	77.0	37.9	168.3	-
		Balance Wheel Track and Spans	0.0	6.7	-	-	-	-	-
		Special Structure Fund Total			\$ 0.2	\$ 26.5	\$ 144.7	\$ 88.5	\$ 52.5
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 1.5	\$ 15.0	\$ 15.0	\$ 15.0	\$ 15.0	\$ 15.0	
Coleman Bridge Total			\$ 1.7	\$ 41.5	\$ 159.7	\$ 103.5	\$ 67.5	\$ 288.9	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
High Rise Bridge	Special Structure Fund	Deck Rehabilitation	0.3	10.0	-	-	-	-	-
		Generator Replacement	0.1	3.0	-	-	-	-	-
		Maintenance	-	0.1	57.0	-	-	-	-
		Substructure Rehabilitation	-	0.8	-	-	-	-	-
		Waterproofing - Building	-	0.4	-	-	-	-	-
		Structure Replacement	-	-	-	566.9	-	-	-
		Rehabilitation	-	-	12.1	-	46.0	20.7	-
		Special Structure Fund Total			\$ 0.4	\$ 14.3	\$ 69.1	\$ 566.9	\$ 46.0
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 1.5	\$ 15.2	\$ 15.2	\$ 15.2	\$ 15.2	\$ 15.2	
High Rise Bridge Total			\$ 1.9	\$ 29.5	\$ 84.3	\$ 582.1	\$ 61.2	\$ 35.9	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
James River Bridge	Special Structure Fund	Maintenance	-	3.7	9.9	0.3	99.2	85.3	
		Rehabilitation	0.0	5.4	71.9	-	141.5	223.9	
		South Tower Staircase	-	0.7	-	-	-	-	
		Drives and Machinery	2.9	-	-	-	-	-	
		Cables	0.0	8.1	-	-	-	-	
	Special Structure Fund Total		\$ 2.9	\$ 17.9	\$ 81.8	\$ 0.3	\$ 240.7	\$ 309.1	
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 3.2	\$ 32.4	\$ 32.4	\$ 32.4	\$ 32.4	\$ 32.4	
<i>James River Bridge Total</i>			\$ 6.2	\$ 50.3	\$ 114.2	\$ 32.7	\$ 273.1	\$ 341.5	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
I-564 Tunnel	Special Structure Fund	Maintenance	-	0.5	2.3	-	-	4.7	
		Rehabilitation	-	2.6	7.0	-	-	16.0	
	Special Structure Fund Total		\$ -	\$ 3.0	\$ 9.3	\$ -	\$ -	\$ 20.7	
	Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 1.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0	\$ 10.0
<i>I-564 Tunnel Total</i>			\$ 1.0	\$ 13.0	\$ 19.3	\$ 10.0	\$ 10.0	\$ 30.7	

Special Structures Long Term Plan Hampton Roads District									
By Fiscal Year (\$ in Millions)									
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Willoughby Bay	Special Structure Fund	Rehabilitation	10.9	28.8	-	-	109.0	37.9	
		Maintenance	-	-	-	-	-	-	5.0
		Structure Replacement	-	-	-	-	-	-	11.4
	Special Structure Fund Total		\$ 10.9	\$ 28.8	\$ -	\$ -	\$ 109.0	\$ 54.3	
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 0.2	\$ 1.5	\$ 1.5	\$ 1.5	\$ 1.5	\$ 1.5	
<i>Willoughby Bay Total</i>			\$ 11.0	\$ 30.3	\$ 1.5	\$ 1.5	\$ 110.5	\$ 55.8	
Hampton Roads District Total			\$ 43.6	\$ 816.6	\$ 1,036.1	\$ 1,304.1	\$ 1,562.4	\$ 2,057.3	

Special Structures Long Term Plan Fredericksburg District									
				By Fiscal Year (\$ in Millions)					
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Eltham	Special Structure Fund	Alarms	0.1	0.2	-	-	-	-	-
		Bascule Span Balancing	0.1	0.2	-	-	-	-	-
		Clearance Gauge Signs	0.1	-	-	-	-	-	-
		Deck Rehabilitation	2.4	4.5	-	-	-	-	-
		Fender	0.5	2.1	-	-	-	-	-
		Rehabilitation	-	-	2.7	2.3	13.3	21.0	-
		Span Lock Replacement	0.1	0.2	-	-	-	-	-
		Drives and Machinery	0.1	0.2	-	-	-	-	-
		Painting	0.3	1.3	-	-	-	-	-
		Maintenance	-	-	1.7	15.3	3.6	23.2	-
		Special Structure Fund Total			\$ 3.6	\$ 8.7	\$ 4.4	\$ 17.6	\$ 17.0
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 0.5	\$ 5.2	\$ 5.2	\$ 5.2	\$ 5.2	\$ 5.2	
Eltham Bridge Total			\$ 4.1	\$ 13.9	\$ 9.6	\$ 22.8	\$ 22.2	\$ 49.4	

Special Structures Long Term Plan Fredericksburg District									
				By Fiscal Year (\$ in Millions)					
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Gwynn's Island Bridge	Special Structure Fund	Fender	0.3	0.7	-	-	-	-	-
		Mechanical and Electrical Rehabilitation	8.8	1.9	-	-	-	-	-
		Rehabilitation	0.5	0.4	-	-	-	-	-
		Structure Replacement	-	-	0.8	95.7	-	40.1	-
		Maintenance	-	-	0.2	-	0.2	-	-
Special Structure Fund Total			\$ 9.6	\$ 3.0	\$ 1.0	\$ 95.7	\$ 0.2	\$ 40.1	
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 0.6	\$ 64.0	\$ 64.0	\$ 64.0	\$ 64.0	\$ 64.0	
Gwynn's Island Bridge Total			\$ 10.2	\$ 67.0	\$ 65.0	\$ 159.7	\$ 64.2	\$ 104.1	

Special Structures Long Term Plan Fredericksburg District									
				By Fiscal Year (\$ in Millions)					
Special Structure	Program	Work Description	Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072	
Norris Bridge	Special Structure Fund	Maintenance	0.0	1.3	0.7	17.1	8.7	5.4	-
		Pile Jackets	0.6	2.5	-	-	-	-	-
		Rehabilitation	0.3	10.0	11.3	-	-	-	-
		Structure Replacement	3.2	166.8	430.1	-	-	-	-
		Painting	0.5	1.4	-	-	-	-	-
Special Structure Fund Total			\$ 4.5	\$ 181.9	\$ 442.1	\$ 17.1	\$ 8.7	\$ 5.4	
Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)			\$ 3.7	\$ 36.6	\$ 36.6	\$ 36.6	\$ 36.6	\$ 36.6	
Norris Bridge Total			\$ 8.2	\$ 218.5	\$ 478.7	\$ 53.7	\$ 45.3	\$ 42.0	
Fredericksburg District Total			\$ 22.5	\$ 299.4	\$ 553.4	\$ 236.3	\$ 131.8	\$ 195.5	

Special Structures Long Term Plan Northern Virginia District								
Special Structure	Program	Work Description	By Fiscal Year (\$ in Millions)					
			Previous	2023 - 2032	2033 - 2042	2043 - 2052	2052 - 2062	2063 - 2072
Rosslyn Tunnel	Special Structure Fund	Alarms	-	0.5	-	-	-	-
		Cameras (CCTV)	-	0.1	-	-	-	-
		Generator Replacement	-	0.4	-	-	-	-
		Maintenance	-	-	0.4	1.0	9.5	16.9
		Rehabilitation	3.5	34.4	-	-	0.8	86.9
		Signage	1.4	1.1	-	-	-	-
	Special Structure Fund Total		\$ 4.9	\$ 36.5	\$ 0.4	\$ 1.0	\$ 10.2	\$ 103.8
	Maintenance and Operations Program Fund Total (labor, equipment, utilities, inspection and materials)	\$ 0.4	\$ 4.3	\$ 4.3	\$ 4.3	\$ 4.3	\$ 4.3	
	<i>Rosslyn Tunnel Total</i>	\$ 5.3	\$ 40.8	\$ 4.7	\$ 5.3	\$ 14.5	\$ 108.1	
	Northern Virginia District Total	\$ 5.3	\$ 40.8	\$ 4.7	\$ 5.3	\$ 14.5	\$ 108.1	