





Dulles Corridor Metrorail Project

PHASE 2

MONTHLY COST AND SCHEDULE UPDATE
AS OF JANUARY 31, 2019







Phase 2 Cost Summary

January Expenditures

\$ 13.7 Million

Total Expenditures

2.032 Billion

Total Budget

\$ 2.778 Billion

Total Forecast

\$ 2.778 Billion



Phase 2 Contingency Allocation

Total Contingency	\$ 551.5 Million
Contingency Allocated through December 2018	\$ 277.0 Million
Contingency Allocated in January 2019	\$ 16.0 Million
Total Contingency Allocated through January 2019	\$ 293.0 Million
Remaining Contingency	\$ 258.5 Million

January Contingency Allocation

Total Contingency Allocated in January 2019

Package A – Capital Rail Constructors (CRC)

 1) Roofer Wage Scale Modification; 2) Differing Site Condition (DSC) - Geotechnical at Utility Crossing (Part B); 3) DSC- II-B Revisions to Pipe Quantities; 4) Disposition of Fabricated FIB96 Girders; 5) Herndon Station Reconfiguration; 6) Modification of Wiehle Avenue Train Control Room; 7) Ashburn Station Safe Dispersal Area

Paper Copies of Submittals

• Miscellaneous Changes (changes less than \$100,000)

\$16.0 Million

\$9.3 Million

\$ 8,610,600

\$650,000

(\$7,000)

Guideway & Stations Design-Build Activities

Current

- All Design Packages completed and issued for construction.
- 11 Design Changes reviewed/processed by Metropolitan Washington Airports Authority (Airports Authority) in February.
- 44 Identified Design and Field Changes in Progress:
 - 14 yet to be submitted by CRC
 - 16 in Review process (6 with Airports Authority and on schedule, 10 with CRC)
 - 14 in Issued for Permit/Issued for Construction production process
- 10 submittals approved by Airports Authority Building Codes Department and 7 by the Department of General Services in February.
- 134 Supplier Submittals reviewed/processed in February.
- 30 Non-Conformance Reports resolved in February.

Guideway & Stations Design-Build Activities

Upcoming

- Electricians continue to pull cables from the guideway to the Traction Power Substation (TPSS), Automatic Train Control and Communications rooms on the west at grade section of the Project.
- Stations Continue ceiling, electrical, plumbing, escalator and elevator installation and testing. Loudoun Gateway pedestrian bridge tying into the new Loudoun County erected parking garage was set by the Loudoun County contractor. Innovation ceiling panels are being installed throughout the stations and bridges as Quality and Code inspections are completed and passed. Roofing of the vault roofs at Ashburn and Loudoun Gateway Stations is continuing during good weather.
- Track At grade track is being adjusted on the west and cable trough lids are being installed after all necessary cables are pulled through the areas between stations and wayside facilities.

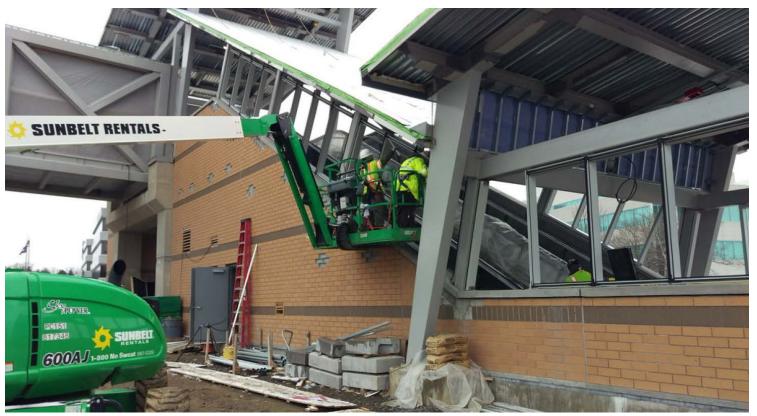
Reston Elevator Glass Panel Installation



Assemble Elevator Cabs at Herndon North



Install Curtain Wall Frames at Herndon North



Installing 30 inch Storm Drain at TPSS #12



First Test Trains for Dynamic Testing on Phase Two Guideway



Backfilling Innovation North Sound Wall



Installing Elevator Doors at Loudoun Gateway Station



Installing/Welding Handrails at Ashburn Station



Installing Framing and Panels Over Gates at Dulles Station



Package B

January Contingency Allocation

Package B – Hensel Phelps (HP)	\$ 6.7 Million
Global Time Extension Offered	\$5,130,150
 Fire Pump and Fire Protection Systems (settled at \$2,162,000) 	\$1,322,500
 Service and Inspection Building (SIB) Elevator Change - Americans with Disabilities Act Accessibility Guidelines 	\$144,505
 Fall Protection for Skylights (settled at \$168,000) 	\$105,000
 Miscellaneous Changes (changes less than \$100,000) 	\$ 46,970

Rail Yard and Maintenance Facilities Design-Build Activities

Current

- All Design Submittal Packages complete & issued for construction.
- 88 Design and Field Changes In Process:
 - 71 under comment resolution phase
 - 17 received and reviewed by the Airports Authority in January
- 49 Construction Submittal Packages reviewed/processed and 105 Submittals were in comment resolution phase in January.
- 72 Discrepancy Reports to date:
 - 23 currently open
 - 1 resolved in January
- 67 Issues Requiring Resolution (IRR) to date:
 - 25 open
 - 42 resolved

Washington Metropolitan Area Transit Authority (WMATA) Rail Yard & Maintenance Facility Design-Build Activities

Current Construction - Buildings

- Interior work on Maintenance of Way Building (MWB) and SIB office spaces are nearly complete except for the installation of WMATA procured modular furniture. HP is conducting walk throughs of spaces in preparation of the final punchlist.
- Trainwash Facility equipment and track installation continues.
- Embedded track installation in the SIB has begun.
- BBM Railway Equipment is working to complete fabrication and installation of car hoist equipment in the SIB, replacing the shutdown Macton Corporation.
- Awaiting HP plan to bring Bridge Cranes into Buy America compliance.

WMATA Rail Yard & Maintenance Facility Design-Build Activities

Construction – Site and Yard

- Landscaping and stormwater quality structure construction continues.
- Remedial trackwork, end loop tracks, replacing running rail and restraining rail has begun.
- Transportation Building interior and platforms work continues.
- Salt Dome construction near completion.
- Security fencing near completion.
- The guardhouse at the permanent entrance is to be delivered and installed in the near future.

Painting Fire Mains in the SIB



Beginning Paint Booth Installation in SIB



Lubrication Tank Room in MWB



Installing Hydraulic Elevator Pump in MWB



MWB Upper Mezzanine Office Carpet Installation



Transportation Building Mechanical Room



Bio-Retention Pond Under Construction



SIB Machine Shop



MWB Maintenance Bay



Power Interface Panel in Yard Control Room



Salt Dome







MWAA.COM
DULLESMETRO.COM





FlyDulles



DULLES CORRIDOR METRORAIL PROJECT - PHASE 2 MONTHLY COST SUMMARY As of January 31, 2019

Description	Budget Total <u>Expenditures to Date</u>		to Date	Contract	Contract	
•	Amount	Forecast	Amount	Total	NTP	Substantial
		_		Percent		
		<u>b</u>	С	c/b		
DULLES CORRIDOR METRORAIL PRO	OJECT - PHASE 2					
DESIGN-BUILD Package A	1,193,777,000	1,419,118,184	1,225,873,729	86%	8-Jul-13	7-Aug-19
DESIGN-BUILD Package G	0	6,966,000	413,071	6%	22-Aug-18	11-Aug-20
DESIGN-BUILD Package P*	0	26,586,161	1,605,731	6%	14-Jun-18	11-Jun-21
DESIGN-BUILD Package B + S	273,280,530	299,516,749	246,903,523	82%	18-Nov-13	23-Dec-18
ROW	58,600,000	57,316,200	25,884,819	45%	8-Jul-13	30-Sep-17
WMATA	305,324,718	280,759,119	172,738,865	62%	N/A	3-Feb-20
PRELIMINARY ENGINEERING	75,000,000	75,000,000	73,266,056	98%	15-Jul-09	30-Dec-13
PROJECT MANAGEMENT	320,802,137	354,432,160	284,892,735	80%	N/A	2-Jan-19
CONTINGENCY	551,451,179	258,540,991	•			
TOTAL FOR DCMP	2,778,235,564	2,778,235,564	2,031,578,529			

^{*}Final Completion extends to 6/12/2023 due to additional 2 years of maintenance



DULLES CORRIDOR METRORAIL PROJECT - PHASE 2 CONTINGENCY ALLOCATION As of January 31, 2019

Description		Amount in million (\$)	
DULLES CORRIDOR METRORAIL PROJECT - PHASE 2			
Total Contingency	\$	551.5	
Contingency Allocated through December 2018	\$ \$ \$	277.0	
Expended Contingency in January 2019*	\$	16.0	
Total Contingency Allocated through January 2019	\$	293.0	
Remaining Contingency	\$	258.5	
*See table below for details			
Package A (CRC)		\$9.3 Million	
Bundled changes: 1) Roofer Wage Scale Modification; 2) Differing Site Condition (DSC) - Geotechnical at Utility Crossing (Part B); 3) DSC- II-B Revisions to Pipe Quantities; 4) Disposition of Fabricated FIB96 Girders; 5) Herndon Station Reconfiguration; 6) Modification of Wiehle Ave Train Control Room; 7) Ashburn Station Safe Dispersal Area	\$	8,610,600	
Paper Copies of Electronic Submittals	\$	650,000	
Miscellaneous Changes (changes less than \$100,000)	\$	(7,000)	
Package B (HP)		\$6.7 Million	
Global Time Extension	\$	5,130,150	
Fire Pump and Fire Protection Systems (Settled at \$2,162,000)	\$	1,322,500	
Service and Inspection Building (SIB) Elevator Change - Americans with Disabilities Act Accessibility Guidelines	\$	144,505	
Fall Protection for Skylights (Settled at \$168,000)	\$	105,000	
Miscellaneous Changes (changes less than \$100,000)	\$	46,970	



Airport	Project No	Description	Budget Amount
DULLES	CORRIDOR	METRORAIL PROJECT - PHASE 2	
DESIGN-	BUILD Packa	age A	
DCMP	5401	Package A - Mainline (CRC)	1,177,777,000
DCMP	5406	Commodity Escalation	16,000,000
DCMP	5408	Contingency amount	
DCMP	5408	Secondary mitigation amount	
		SUBTOTAL - DESIGN-BUILD Package A	1,193,777,000
DESIGN-	·BUILD Packa	age B+S	
DCMP	5402	Package B - Yard	269,280,530
DCMP	5402	Package S - Yard Site Preparation	incl above
DCMP	5406	Commodity Escalation	4,000,000
DCMP	5408	Contingency amount	
DCMP	5408	Secondary mitigation amount	
		SUBTOTAL - DESIGN-BUILD Package B+S	273,280,530
ROW			
DCMP	5404	Land & Relocation	47,225,000
DCMP	5404	Support Services	11,375,000
DCMP	5408	Contingency	
		SUBTOTAL - ROW	58,600,000
WMATA			
DCMP	5405	WMATA Vehicles	205,868,200
DCMP	5405	WMATA other costs	90,205,767
DCMP	5405	WMATA Non Revenue Vehicles	9,250,751
DCMP	5408	Contingency	
		SUBTOTAL - WMATA	305,324,718
PRELIMI	NARY ENGIN	IEERING	
DCMP	5406	PRELIMINARY ENGINEERING	75,000,000
		SUBTOTAL - PRELIMINARY ENGINEERING	75,000,000
PROJEC	T MANAGEN	IENT	
DCMP	5406	MWAA Staff	34,000,000
DCMP	5406	MWAA Allocated Cost	13,560,000
DCMP	5406	Rent	9,200,000
DCMP	5406	Relocation, IT, Furniture	2,700,000



A irmort	Drainat Na	Description	Budget
Airport	Project No	Description	Amount
DCMP	5406	MWAA ODCs	17,060,000
DCMP	5406	Insurance (OCIP)	49,082,137
DCMP	5406	PMSS	140,000,000
DCMP	5406	VDOT	10,000,000
DCMP	5406	DRC Prof Svcs	2,500,000
DCMP	5406	PSI (Special Inspections)	14,000,000
DCMP	5406	DGS	2,000,000
DCMP	5406	TRIP II	2,000,000
DCMP	5406	Dept of Conservation & Recreation (DCR)	2,000,000
DCMP	5406	MWAA Permits/Inspection	4,000,000
DCMP	5406	Power for System Testing	16,000,000
DCMP	5406	Historical/Archaeologic	2,700,000
DCMP	5408	Contingency	
		SUBTOTAL - PROJECT MANAGEMENT	320,802,137
CONTING	SENCY		
DCMP	5408	Contingency - Package A	289,067,231
DCMP	5408	Secondary mitigation amount - Package A	0
DCMP	5408	Contingency - Package B	109,006,387
DCMP	5408	Secondary mitigation amount - Package B	0
DCMP	5408	Contingency - ROW	5,860,000
DCMP	5408	Contingency - WMATA	30,532,472
DCMP	5408	Contingency Project Management	116,985,089
		SUBTOTAL - CONTINGENCY	551,451,179
		TOTAL FOR DCMP - PHASE 2	2,778,235,564