



Dulles Corridor Metrorail Project

**MONTHLY COST AND SCHEDULE UPDATE
FOR PHASES 1 AND 2
AS OF DECEMBER 31, 2014**

FEBRUARY 2015



Phase 1 Cost Summary

December Expenditures	\$	11.6 Million
Total Expenditures	\$	2.735 Billion
Forecast at Completion	\$	2.905 Billion

Phase 1 Contingency Utilization

<u>Total Contingency</u>	<u>\$ 462.3 Million</u>
Contingency Utilized through November 2014	\$ 449.5 Million
Contingency Utilized in December 2014	\$ 2.4 Million
Total Contingency Utilized through December 2014	\$ 451.9 Million
<u>Remaining Contingency</u>	<u>\$10.4 Million</u>



Phase 1 December Contingency Utilization

Total Contingency Utilized in December 2014	\$ 2.4 Million
• Reconcile final quantities for Technical Representative Support, High and Medium Voltage Cables, and Powell Electrical Systems for Traction Power Supply	\$ 1.0 Million
• Station Changes to Above Ground Mechanical/ Electrical/ Plumbing and other Miscellaneous Station Finishes Changes	\$ 0.9 Million
• Additional Changes to Miscellaneous and Ornamental Metals	\$ 0.4 Million
• Trauner Consulting Services (for delay analysis)	\$ 0.2 Million
• Reconcile final quantities for Training and Technical Representative Support for Elevator & Escalators	\$ 0.1 Million
• Traction Power Gap Breaker Control Modification	(\$ 0.3) Million
• Miscellaneous (items less than \$0.1 million)	\$ 0.1 Million

Status of Phase 1 Activities

- Activities Extending beyond Revenue Service Date:
 - Contract for replacement of Remote Terminal Units (RTUs) is underway. Initial Schedule submitted, procurement of long lead parts commencing.
 - Power frequency track circuits (equipment replacement at track crossovers) – WMATA to perform, with budget in place.
 - Loss of Speed Read Outs (LSROs) – Scope of work and Cost estimate completed. Procurement is underway, and target award date is end of this month.
 - Phase 1 Close-out – Task Order Contract information, and target for award is April 30, 2015. This includes Arts-In-Transit and deficiency items owed to Partner Agencies (that are not DTP’s responsibility).
 - DTP’s punch list on WMATA items is essentially complete. Several small and minor items will remain open to be performed by DTP or under the Phase 1 Task Order Contract (with credit from DTP).
 - Non transit (VDOT) items resolution to extend to Summer 2015.
 - Deficiency work and late changes that were mutually agreed to be delayed to Post-ORD via WMATA Cooperative Agreement Amendment #5.
 - Negotiation and Resolution of Open Change Orders and Contract Claims ongoing.

Phase 2 Cost Summary

December Expenditures	\$	38.7 Million
Total Expenditures	\$	380.4 Million
Total Budget	\$	2.778 Billion
Total Forecast	\$	2.778 Billion

Phase 2 Contingency Utilization

<u>Total Contingency</u>	<u>\$ 551.5 Million</u>
Contingency Utilized through November 2014	\$ 12.3 Million
Contingency Utilized in December 2014	\$ 3.7 Million
Total Contingency Utilized through December 2014	\$ 16.0 Million
<u>Remaining Contingency</u>	<u>\$ 535.5 Million</u>



Phase 2

December Contingency Utilization

Total Contingency Utilized in December 2014	\$ 3.7 Million
• Additional funding for Traction Power Substation configuration changes - design and construction (in addition to \$1.9 million funded by Directive Letter in August 2014)	\$ 1.6 Million
• Additional funding for design modifications for Airport Guideway Structure (in addition to \$0.9 million funded by Directive Letter in September 2014)	\$ 1.4 Million
• Emergency Trip Station Cable Upgrade	\$ 0.4 Million
• Delayed access to soil stockpile	\$ 0.3 Million
• Emergency Trip Station Boxes Relocation	\$ 0.1 Million
• Study for North Area Roads shoulder width challenges	\$ 0.1 Million
• Modifications to At-Grade Station Facilities - design and construction	(\$ 0.2) Million

Phase 2 Main Alignment Design- Build Activities

Current

- Project design/field surveys
- Advancement of permits for critical design packages;
 - DP-013.6 - East Dry Utility Relocations – MWAA Permit issued on January 14, 2015
 - DP-025.1 - TBS #7 - Construction Permit – DGS Permit issued on January 9, 2015
 - DP-116 - East Jack and Bore – MWAA Permit issued on January 8, 2015
 - DP-031 - Elevated Guideway (S4) Superstructure – MWAA Permit issued on December 22, 2014
 - DP-012.3 - Civil West Enabling Yard Leads and S4 – MWAA Permit issued on December 18, 2014
 - DP-011 - Civil Segment – Airport – MWAA Permit issued on December 4, 2014
- Utility relocation at pier 60, pier 67 and pier 78 (N96)
- Installation of sanitary sewer line at Airport Station
- Utility test pitting at Innovation Center Station (N09)
- Horsepen Run Bridge abutment (N09) and Broad Run Bridge abutment (N11)
- Pour drilled shafts, columns, and pier caps (N10, N96 and N98 Yard Leads)
- Field Office Laydown area – Setting up the trailers (AP-4)

Phase 2 Main Alignment Design- Build Activities

Upcoming

- Airport Station roadway improvements (N10)
- Station utilities installation at Innovation Center (N09)
- Station enabling work at Herndon-Monroe Station (N08)
- 34.5KV ductbank installation along Rt. 28 (N09)
- Horsepen Run Bridge (N09) and Broad Run Bridge (N11)
- Utility relocation work at Piers 67 and 68 (N96)
- Pour drilled shafts, columns, and pier caps (N96, N97 and N98 Yard Leads)
- Dulles International Airport Access Highway (DIAAH) median work at Herndon Station for maintenance of traffic, barriers and jack & bores for storm drainage

Phase 2

WMATA Rail Yard & Maintenance Facility Design-Build Activities

Current

- 30% Design Comments Resolution
- Site Mobilization 90% Design Package Under Review

Upcoming

- Project Wide 60% Design Package
- Early Civil 90% Design Package

Phase 2 Site Preparation for the WMATA Rail Yard & Maintenance Facility Design-Build Activities

Current

- Minor site maintenance, seeding & grading



Ronald Reagan Washington National Airport



Dulles Corridor Metrorail Project



Dulles Toll Road



Washington Dulles International Airport



**METROPOLITAN WASHINGTON
AIRPORTS AUTHORITY**



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DULLES CORRIDOR METRORAIL PROJECT - PHASE 1
MONTHLY COST SUMMARY
As of December 31, 2014

Description	Budget Authorization ^{1,6}	Budget Amount ²	Total Forecast ³	Budget Variances		Expenditures to Date		Contract NTP	Contract Substantial Note 5
				Amount Over / (Under)	Percent b-a/a	Amount	Total Percent c/b		
	a		b	b-a	b-a/a	c	c/b		
DULLES CORRIDOR METRORAIL PROJECT - PHASE 1									
DESIGN-BUILD	2,027,776,076	1,712,504,539	2,027,641,804	(134,272)	0.0%	1,983,590,328	98%	2-Mar-09	9-Sep-13
UTILITY RELOCATION	188,240,026	129,016,151	188,240,026	(0)	0.0%	176,208,881	94%	1-Aug-07	30-Sep-10
ROW	86,769,130	87,215,795	83,222,235	(3,546,895)	-4.1%	77,484,657	93%	1-Aug-07	28-Feb-10
WMATA	278,485,628	271,635,628	278,485,628	0	0.0%	173,631,208	62%	28-Jul-07	8-Dec-13
PRELIMINARY ENGINEERING ⁴	100,730,999	100,968,646	100,730,999	0	0.0%	100,730,999	100%	28-Jun-04	30-Jun-08
PROJECT MANAGEMENT	223,693,141	142,109,519	227,374,308	3,681,167	1.6%	223,936,125	98%	n/a	n/a
TOTAL FOR DCMP	2,905,695,000	2,443,450,278	2,905,695,000	(0)	0.0%	2,735,582,198	94%		

Notes:

- Budget Authorization based on FFGA project budget with estimated contingency spread among line items; includes interrelated highway improvements; does not include financing costs.
- Budget Amount is based on FFGA project budget but does not include finance costs and contingency distribution.
- Total Forecast includes approved change orders, estimates at completion and the estimated cost of future contingency utilization. It does not include finance costs.
- Preliminary Engineering expenditures have been agreed to be \$100,731,000. This is \$237,646 under the original budget of \$100,968,646. The under run is transferred to unallocated contingency.
- Design-Build Contract Substantial date was revised from the original date of 7/31/2013 to 9/9/2013.
- Additional Budget Authorization of \$150 million was approved by the Airports Authority's Board on June 22, 2012.

Legend: Black - Forecast within Authorization
 Green - Forecast less than 3% over Authorization
 Red - Forecast greater than 3% over Authorization



METROPOLITAN WASHINGTON
AIRPORTS AUTHORITY

**DULLES CORRIDOR METRORAIL PROJECT - PHASE 1
CONTINGENCY UTILIZATION
As of December 31, 2014**

Description	Amount in million (\$)
DULLES CORRIDOR METRORAIL PROJECT - PHASE 1	
Total Contingency (including additional funding)	\$ 462.3
Contingency Utilized through November 2014	\$ 449.5
Expended Contingency in December 2014*	\$ 2.4
Total Contingency Utilized through December 2014	\$ 451.9
Remaining Contingency	\$ 10.4

*See table below for details

Reconcile final quantities for Technical Representative Support, High and Medium Voltage Cables, and Powell Electrical Systems for Traction Power Supply	\$ 1.0
Station Changes to Above Ground Mechanical/ Electrical/ Plumbing and other Miscellaneous Station Finishes Changes	\$ 0.9
Additional Changes to Miscellaneous and Ornamental Metals	\$ 0.4
Trauner Consulting Services (for delay analysis)	\$ 0.2
Reconcile final quantities for Training and Technical Representative Support for Elevator & Escalators	\$ 0.1
Traction Power Gap Breaker Control Modification	\$ (0.3)
Miscellaneous (<i>items less than \$0.1 million</i>)	\$ 0.1
TOTAL	\$ 2.4



Airport	Project No	Description	Original Budget Amount	Budget Authorization
DULLES CORRIDOR METRORAIL PROJECT - PHASE 1				
DESIGN-BUILD				
DCMP	5101/5103	DTP - FFP	1,185,980,111	1,322,086,717
DCMP	5101/5103	Trackwork Allowance	75,378,042	88,408,431
DCMP	5101/5103	Station Finishes & MEP Allowance	81,953,493	96,120,562
DCMP	5101/5103	WFCY Sound and Box Platforms Allowance	6,686,211	7,842,037
DCMP	5101/5103	Pedestrian Bridges Allowance	12,239,488	14,355,294
DCMP	5101/5103	Site Development Allowance	61,718,153	70,200,426
DCMP	5101/5103	Installation of Public Art Allowance	633,862	743,436
DCMP	5101/5103	Communications and Security Allowance	24,300,826	28,501,641
DCMP	5101/5103	Fire Suppression Allowance	2,667,214	3,128,288
DCMP	5101/5103	Elevators and Escalators Allowance	38,732,282	45,427,822
DCMP	5101/5103	Spare Parts Allowance	5,515,011	6,468,375
DCMP	5101/5103	WFCY S&I Building Allowance	27,613,591	32,387,074
DCMP	5101/5103	Traction Power Supply Allowance	45,594,511	53,393,254
DCMP	5101/5103	ATC Supply Allowance	26,918,598	31,571,940
DCMP	5101/5103	Corrosion & Stray Currents Allowance	1,579,685	1,852,761
DCMP	5101/5103	Contact Rail Allowance	8,431,848	9,889,438
DCMP	5101/5103	Wiehle Parking Garage Allowance (By others)	29,091,684	34,120,681
DCMP	5101/5103	Commodity Index Payments	77,469,926	86,241,691
DCMP	5101/5103	Contingency	220,235,332	
		Adjustment due to Additional Funding		95,036,208
SUBTOTAL - DESIGN-BUILD			1,932,739,867	2,027,776,076
UTILITY RELOCATION				
DCMP	5101/5103	DTP (Lane)	83,310,836	98,449,857
DCMP	5101/5103	Design	2,394,135	2,775,026
DCMP	5101/5103	PM/CM	8,347,544	9,498,307
DCMP	5101/5103	Legal Permit Fee	834,796	923,095
DCMP	5101/5103	TERF	6,502,667	7,137,990
DCMP	5101/5103	Washington Gas Light - Force Account	4,231,456	4,644,877
DCMP	5101/5103	Dominion Power - Force Account	7,410,599	8,134,628
DCMP	5101/5103	Verizon - Force Account	3,418,254	3,752,224
DCMP	5101/5103	ATT Local - Force Account	1,935,438	2,124,534
DCMP	5101/5103	ATTLD - Force Account	216,276	237,407
DCMP	5101/5103	Verizon Business (MCI) - Force Account	1,761,409	1,933,502
DCMP	5101/5103	FiberLight - Force Account	75,234	82,585
DCMP	5101/5103	Qwest Government - Force Account	1,708,886	1,875,847
DCMP	5101/5103	Qwest Commercial - Force Account	993,153	1,090,186
DCMP	5101/5103	Above Net - Force Account	1,467,478	1,610,853
DCMP	5101/5103	Level 3 Com - Force Account	995,253	1,092,491
DCMP	5101/5103	XO Communication - Force Account	250,922	275,438
DCMP	5101/5103	Cox - Force Account	752,115	825,598
DCMP	5101/5103	Comcast - Force Account	178,697	196,156
DCMP	5101/5103	Fibergate - Force Account	31,512	34,591
DCMP	5101/5103	Time-Warner - Force Account	199,576	219,075
DCMP	5101/5103	FastToll (Qwest Business) - Force Account	220,584	242,135



Airport	Project No	Description	Original Budget Amount	Budget Authorization
DCMP	5101/5103	VDOT - Force Account	178,568	196,014
DCMP	5101/5103	ITS Fiber - Force Account	26,260	28,826
DCMP	5101/5103	UTILITY COMPANIES DESIGN	1,574,500	1,728,332
DCMP	5101/5103	Contingency	20,093,426	
		Adjustment due to Additional Funding		39,130,452
SUBTOTAL - UTILITY RELOCATION			149,109,574	188,240,026
ROW				
DCMP	5101/5103	Support Services	8,171,000	8,625,590
DCMP	5101/5103	Land & Relocation	79,044,794	87,639,548
DCMP	5101/5103	Contingency	9,049,345	
		Adjustment due to Additional Funding		(9,496,008)
SUBTOTAL - ROW			96,265,139	86,769,130
WMATA				
DCMP	5101	Vehicles	195,138,328	222,863,121
DCMP	5101	Construction and Procurement	31,484,799	35,958,085
DCMP	5101	WMATA Force Account Startup	13,777,100	15,734,518
DCMP	5101	Project Management and Final Design	31,235,400	35,673,251
DCMP	5101/5103	Contingency	38,593,348	
		Adjustment due to Additional Funding		(31,743,347)
SUBTOTAL - WMATA			310,228,975	278,485,628
PRELIMINARY ENGINEERING				
DCMP		PRELIMINARY ENGINEERING	100,968,646	100,968,646
		Adjustment due to Additional Funding		(237,647)
SUBTOTAL - PRELIMINARY ENGINEERING			100,968,646	100,730,999
PROJECT MANAGEMENT				
DCMP	5101/5103	MWAA	23,225,715	27,133,777
DCMP	5101/5103	PMSS	88,565,041	103,771,334
DCMP	5101/5103	VDOT	1,439,608	1,686,783
DCMP	5101/5103	OTHERS	28,879,153	33,791,186
DCMP	5101/5103	Contingency	24,273,563	
		Adjustment due to Additional Funding		57,310,061
SUBTOTAL - PROJECT MANAGEMENT			166,383,080	223,693,141
TOTAL FOR DCMP			2,755,695,281	2,905,695,000



METROPOLITAN WASHINGTON
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DULLES CORRIDOR METRORAIL PROJECT - PHASE 2
MONTHLY COST SUMMARY
As of December 31, 2014

Description	Budget Amount ¹	Total Forecast ²	<u>Expenditures to Date</u>		Contract NTP	Contract Substantial
			Amount	Total Percent c/b		
		b	c	c/b		
DULLES CORRIDOR METRORAIL PROJECT - PHASE 2						
DESIGN-BUILD Package A	1,193,777,000	1,218,007,510	181,687,201	15%	8-Jul-13	7-Jul-18
DESIGN-BUILD Package B + S	273,280,530	263,239,297	12,195,901	5%	18-Nov-13	29-Jun-18
ROW	58,600,000	58,600,000	3,503,314	6%	8-Jul-13	30-Sep-17
WMATA	305,324,718	305,324,718	45,085,228	15%	N/A	2-Jan-19
PRELIMINARY ENGINEERING	75,000,000	75,000,000	71,107,066	95%	15-Jul-09	30-Dec-13
PROJECT MANAGEMENT	320,802,137	322,649,514	66,771,626	21%	N/A	2-Jan-19
CONTINGENCY	551,451,179	535,414,525				
TOTAL FOR DCMP	2,778,235,564	2,778,235,564	380,350,335			

Notes:

- 1 Budget Amount includes contingency as separate line item and does not include finance costs.
- 2 Total Forecast includes funded changes. It does not include finance costs.
- 3 Budget Amount includes commodity escalation of \$20 million for Package A & B+S.



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DULLES CORRIDOR METRORAIL PROJECT - PHASE 2
CONTINGENCY UTILIZATION
As of December 31, 2014

Description	Amount in million (\$)
DULLES CORRIDOR METRORAIL PROJECT - PHASE 2	
Total Contingency	\$ 551.5
Contingency Utilized through November 2014	\$ 12.3
Expended Contingency in December 2014*	\$ 3.7
Total Contingency Utilized through December 2014	\$ 16.0
Remaining Contingency	\$ 535.5

*See table below for details

Traction Power Substation configuration changes - design and construction (previously funded \$1.9 million in August 2014)	\$ 1.6
Modification of design for Airport Guideway Structure (previously funded \$0.9 million in September 2014)	\$ 1.4
Emergency Trip Station Cable Upgrade	\$ 0.4
Delayed access to soil stockpile	\$ 0.3
Emergency Trip Station Boxes Relocation	\$ 0.1
Study for North Area Roads shoulder width challenges	\$ 0.1
Modifications to At-Grade Station Facilities - design and construction	\$ (0.2)
TOTAL	\$ 3.7



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Airport	Project No	Description	Budget Amount
DULLES CORRIDOR METRORAIL PROJECT - PHASE 2			
DESIGN-BUILD Package 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 Package 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
PRELIMINARY ENGINEERING			
DCMP	5406	PRELIMINARY ENGINEERING	75,000,000
SUBTOTAL - PRELIMINARY ENGINEERING			75,000,000
PROJECT MANAGEMENT			
DCMP	5406	MWAA Staff	34,000,000
DCMP	5406	MWAA Allocated Cost	13,560,000
DCMP	5406	Rent	9,200,000


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Airport	Project No	Description	Budget Amount
DCMP	5406	Relocation, IT, Furniture	2,700,000
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	CTI (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
CONTINGENCY			
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