

Dominion Boulevard Improvements

AC # 01-6004-05

UPC: 56187

**VDOT Project No: (FO) 6017-131-109, PE-101, RW-201,
C-501, B608, B609, B610, B611, B614, B615, B616, D608,
&**

C-502, B612, B613

FHWA No.: HPP-0017-5(023)



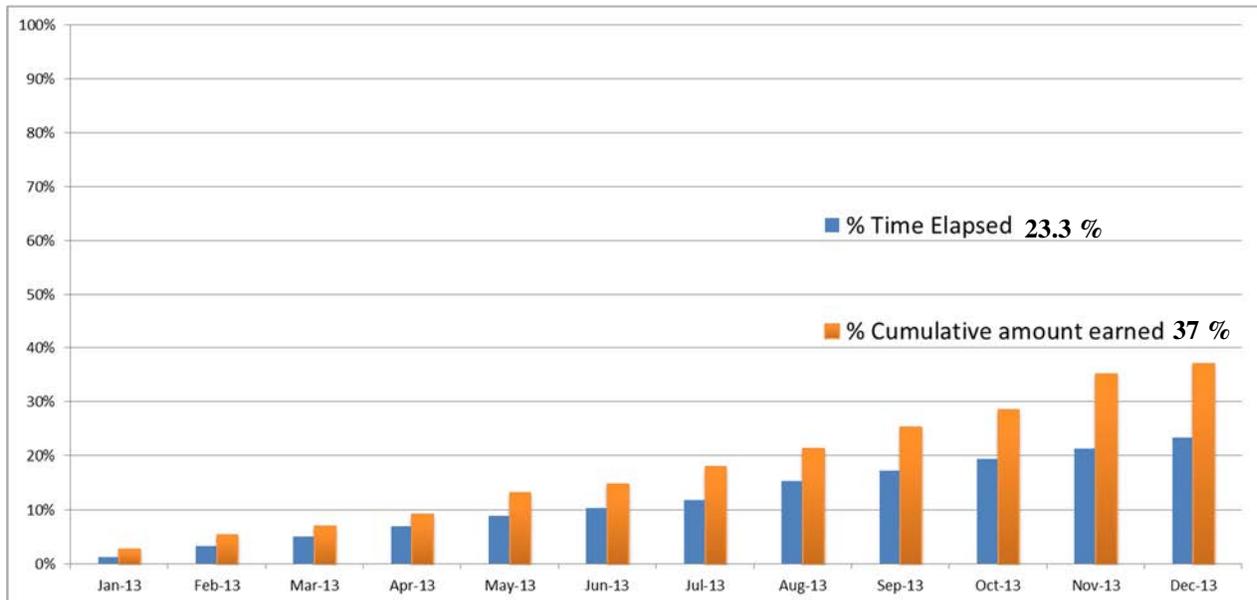
Status Report as of December 31, 2013

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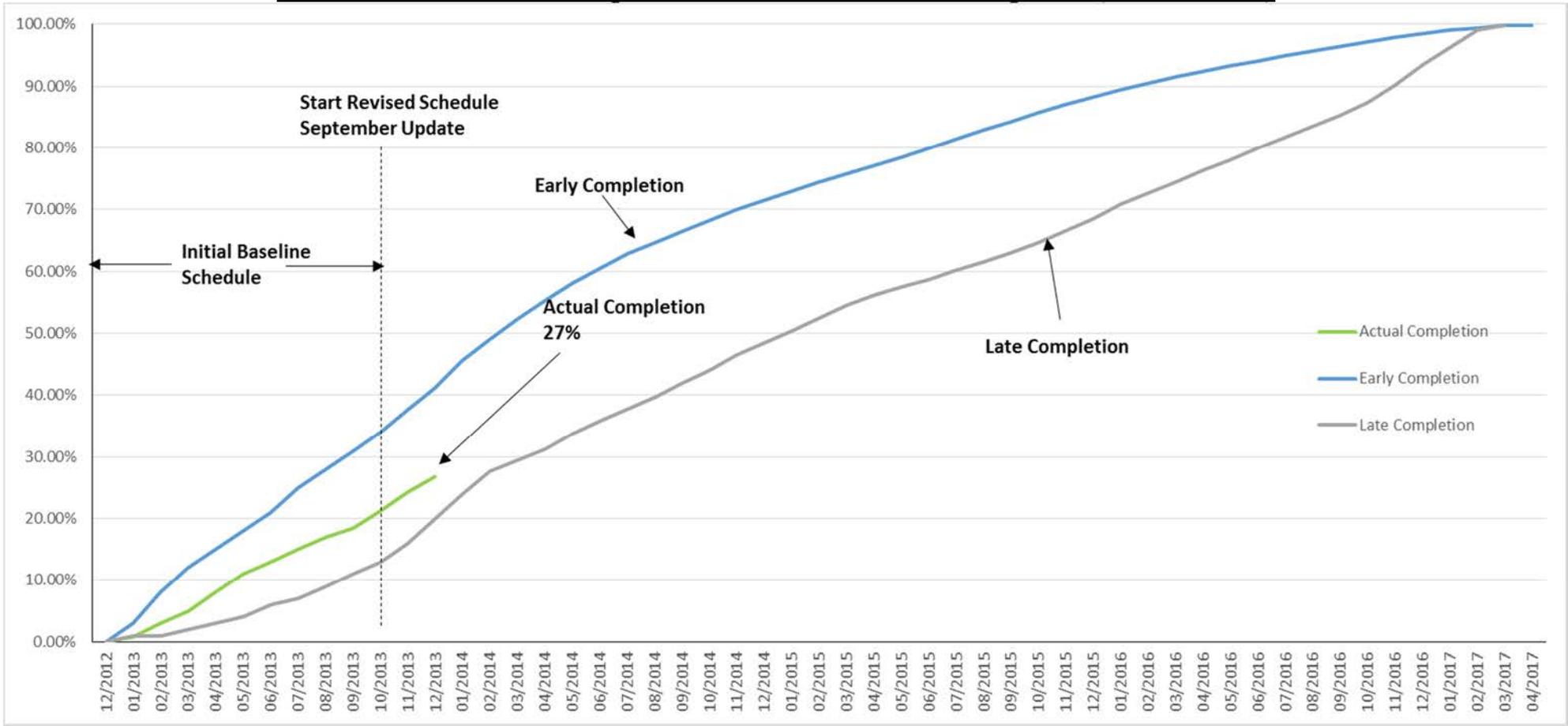
PROJECT STATUS (Schedule and Budget)

Schedule		Budget	
Contract Type	Fixed Date	Contract Value	\$188,070,320
Fixed Contract Completion Date	04/01/2017	Exposure (Pending Change Orders)	\$ 6,014,095
Contract Duration (Days)	1,546	Expenditures (Approved Change Orders)	(\$ 119,931)
Time Extension (Days)	0	Current Estimated Contract Value	\$193,964,484
Current Contract Duration (Days)	1,546		
Notice to Proceed	01/07/2013	Amount Paid Prior Periods	\$67,874,436
First Day of Work	01/07/2013	Amount Paid this Period	\$ 3,696,527
Contract Days Elapsed	359	Cumulative Amount Paid	\$71,570,963
Contract Days Remaining	1187	Value Stock Piled Materials	\$13,718,770
Estimated Completion Date	04/01/2017	Total Contract Cost to Date	\$85,289,733
% Contract Work Complete	27 %		
% Contract Days Elapsed	23.3%	% Current Estimated Contract Value Paid	37%
% Contract Time Remaining	76.7%	% Current Estimated Contract Value Remaining	63%



Cumulative amount paid vs Time Elapsed (NTP to December 31, 2013)

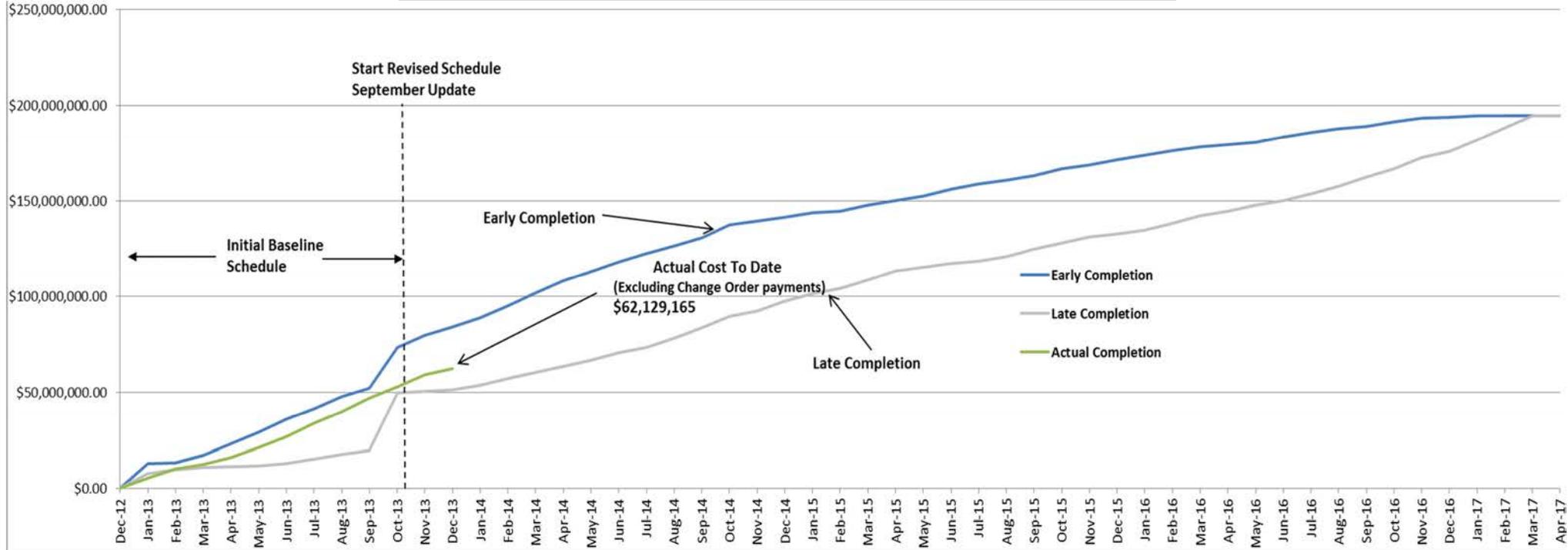
SCHEDULE Actual Percent Work Completed vs. Planned Percent Completed (All Activities)



As of December 31, 2013

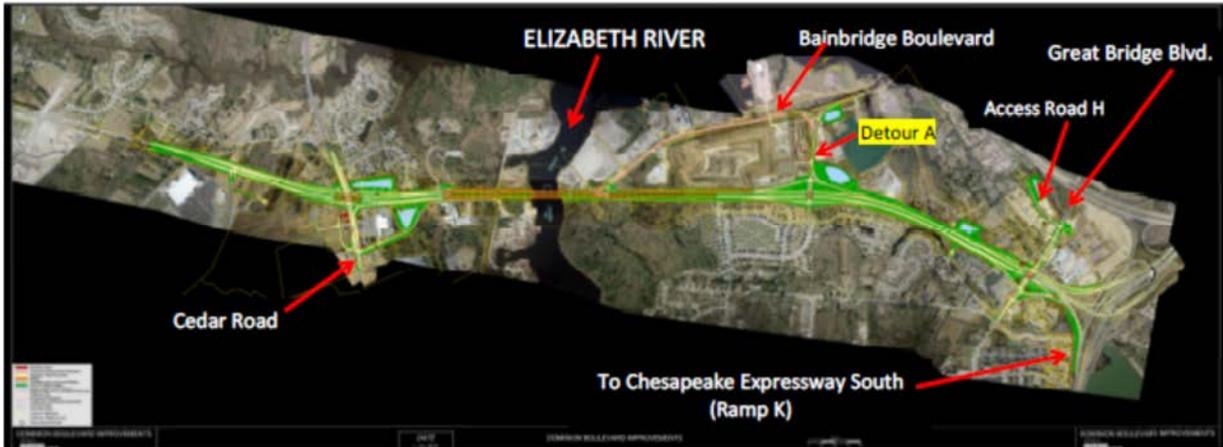
BUDGET

Actual Contract Cost to Date vs. Planned Contract Cost to Date



As of December 31, 2013

SIGNIFICANT ACCOMPLISHMENTS THIS MONTH (Dec. 1 – Dec. 31, 2013)



Bridge Descriptions	
	<u>B612-</u> Dominion Blvd SB over Cedar Rd/Moses Grandy Trail
<u>B608-</u> Dominion Blvd SB over Elizabeth River	<u>B613-</u> Dominion Blvd NB over Cedar Rd/Moses Grandy
<u>B609-</u> Dominion Blvd NB over Elizabeth River	<u>B614-</u> Dominion Blvd SB over Great Bridge Blvd
<u>B610-</u> Dominion Blvd SB over relocated Bainbridge Blvd	<u>B615-</u> Dominion Blvd NB over Great Bridge Blvd
<u>B611-</u> Dominion Blvd NB over Dominion Lakes Blvd/Relocated Bainbridge Blvd.	<u>B616-</u> Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp

Prime Contractor

DBC Joint Venture: (McLean Contracting Co, RR Dawson Bridge Co, Bryant Contracting Inc. and EV Williams Inc.)

Bridge Construction:

- **B609 (Dominion Blvd NB over Elizabeth River):**
 - Continued formwork for bridge deck north of the river
 - Continued bridge deck concrete placement north of the river
 - Continued placing concrete for footings, columns and bent caps
 - Continued setting 77 inch deep girders at spans north of the river
(See Attached Progress Photos)

- **B608 (Dominion Blvd SB over Elizabeth River) :**
 - Continued driving piles for bents north of the river
 - Continued placing concrete for bent caps

- **B616 (Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp)**
 - Completed placing concrete for Straddle Bent Cap; post tensioning will follow
 - Completed concrete placement for pier columns

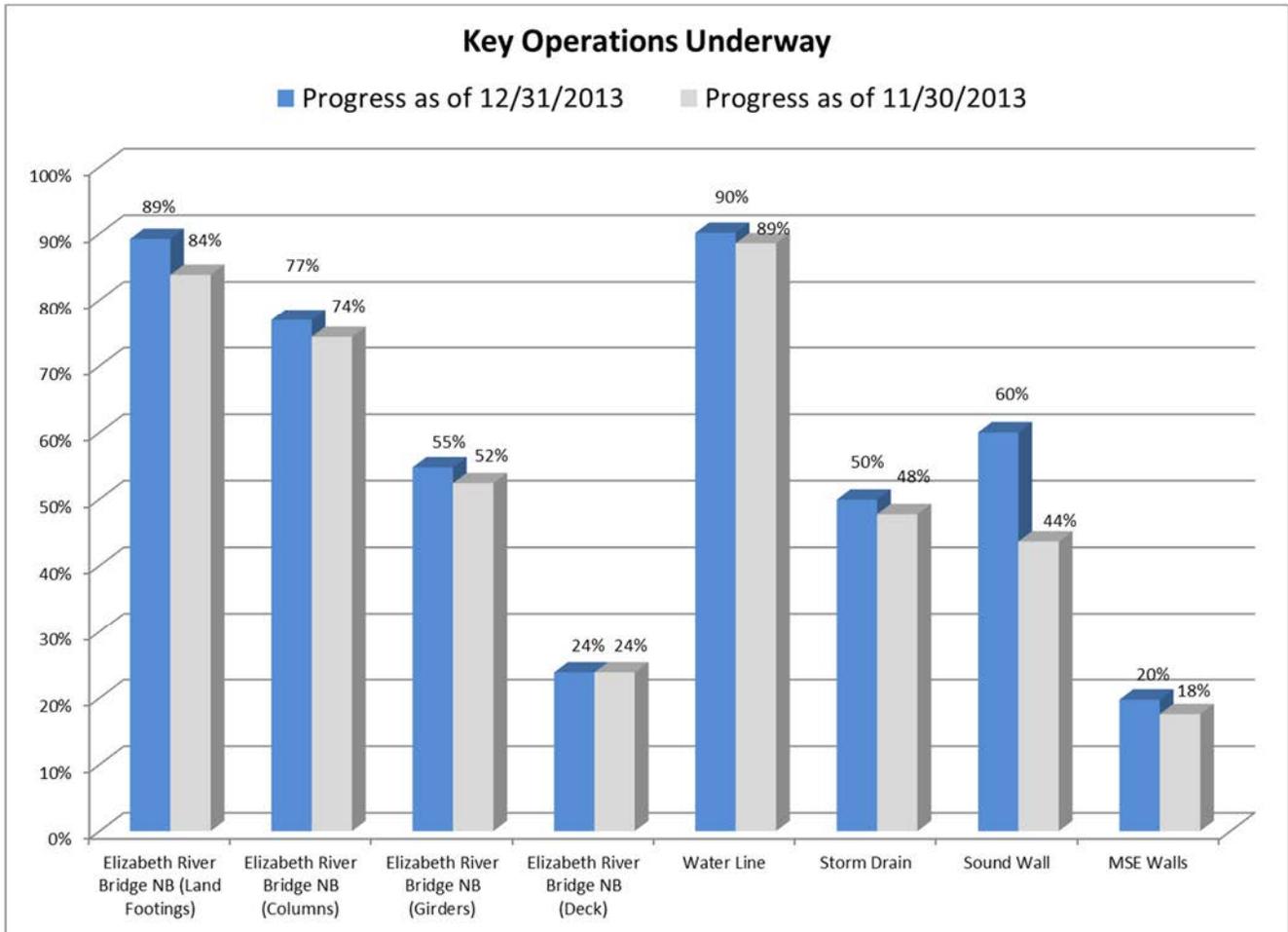
- **B610 and B611(Dominion Blvd SB and NB over relocated Bainbridge Blvd)**
 - Began driving piles for Abutments

Roadway Construction (DBC, Inc):

- Continued construction of Access Road C, which will serve as an access to driveways from Dominion Blvd. to Cedar Rd.
- Continued construction of Ramp A and B at Cedar Rd which will be used as temporary relocated Dominion Blvd. This will enable construction of B612 and B613 to start.
- Continued installation of storm drainage at various locations throughout the project
- Continued installation of new water and sanitary systems throughout the project
- Continued construction of two remaining Stormwater Management Basins: SWM 1 and SWM 2
- Continued construction of ramps at north end of project including installation of storm drainage systems

Major Subcontractors

- **Bissette Construction Corp**
 - Continued installation of storm drain systems south of Elizabeth River at various locations
- **Higgerson-Buchanan Inc.**
 - Continued excavation of ditches
 - Completed excavation of SWM 4
- **Hampton Roads Utility**
 - Continued installation of new water lines; preparation for tie-in of 24 inch water line
- **US Wick Drains**
 - Continued installation of wick drains at Ramp E
- **Roche Brothers**
 - Continued installing MSE Wall Panels at Ramp K
- **Century Concrete**
 - Began installation of Sound Barrier Wall #2 on Ramp K
- **Urettek ICR Mid- Atlantic**
 - Continued installation of Test Soil Nails at Ramp L, Ramp J and Ramp P.



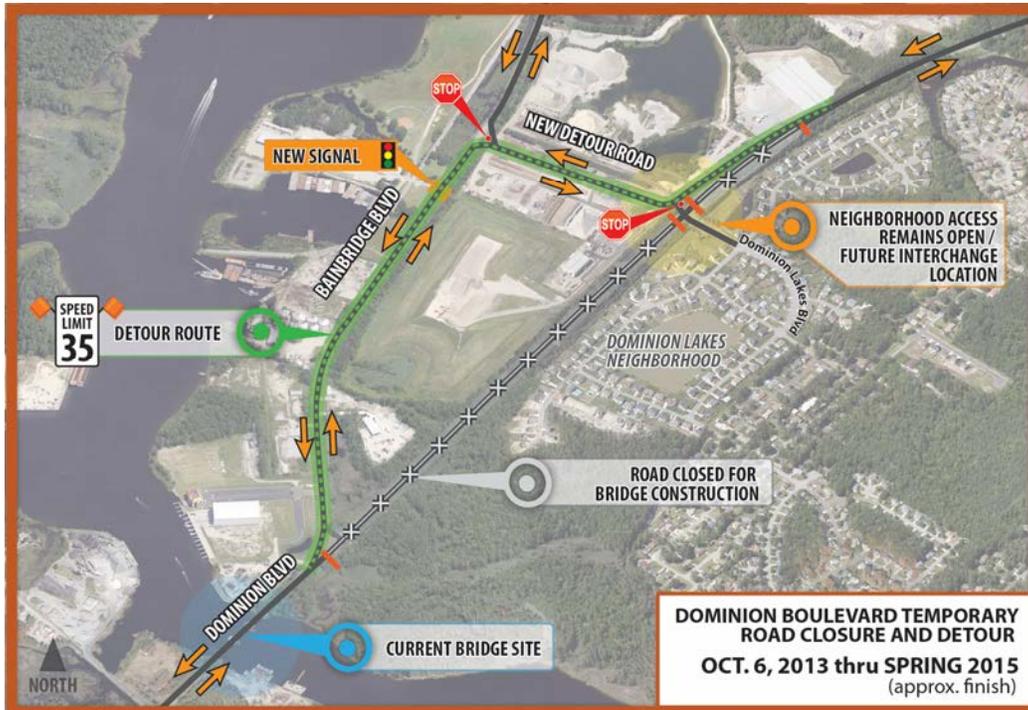
Project Key Operation Status as of 12/31/2013

Key Operations Completed	Month Completed
Elizabeth River Bridge NB (Bent Caps)	Aug-13
Elizabeth River Bridge NB (Piles)	Sep-13
Open Detour A	Oct-13
Elizabeth River Bridge NB (River Footings)	Nov-13

MAINTENANCE OF TRAFFIC

Lane Closures

- Various temporary lane closures throughout project including night-time closures to minimize impacts to motorists
- Detour A is in place to divert Dominion Blvd traffic and enable start of B608 construction



**Detour A (Relocated Bainbridge) completed:
(Arrows show temp. traffic pattern for Dominion Blvd.)**

- Ramp P (Rte. 168 N Exit 15B to Dominion Blvd S) remains closed for road widening per plans. Traffic is being detoured using a double loop at Exit 1 (Rte 464) to Rte 168 S Exit 15B.



Detour Route for Ramp P Closure

- On 12/5/2013 there was an unexpected formwork failure during construction of the cap for B609, Pier 10. Due to proximity of this cap to the existing Dominion Boulevard traffic and a possibly unsafe condition for the travelling public, Dominion Boulevard was immediately closed in the afternoon. The road was reopened by 5:00 am the following morning, once conditions were determined to be safe. The contractor ceased all cap formwork operations and performed a comprehensive review of the situation to prevent similar incidents from occurring in the future.

ANTICIPATED WORK PLANNED FOR NEXT MONTH (1/01/14 – 1/31/14)

DBC Joint Venture

- B609 (Dominion Blvd. NB Bridge over Elizabeth River)
 - Continue formwork and construction of pier footings, columns and pier caps.
 - Continue setting 77 inch deep girders at pier spans north of the river
 - Continue bridge deck concrete placement north of the river
- B608 (Dominion Blvd. SB Bridge over Elizabeth River)
 - Continue driving piles north of the river
 - Continue concrete placements for bent caps
- B616 (Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp)
 - Begin post tensioning operations for the straddle bent cap and forming for the bridge abutments.
- B610 and B611 (Dominion Blvd SB and NB over relocated Bainbridge Blvd)
 - Continue driving piles for Abutments
- Continue installation of storm drainage systems at various locations
- Continue widening of Dominion Blvd. including MSE walls for ramps at Dominion Lakes and other Access Roads for temporary traffic shift at Cedar/Moses Grandy intersection.
- Detour traffic on approximately January 25th, 2014 from existing Dominion Blvd to temporary Ramps A and B to enable construction of B612 and B613 to begin.

Hampton Roads Utilities

- Continue installation of the City of Chesapeake relocated water lines

Roche Brothers

- Continue installation of MSE Walls at Ramp H, and B616 Abutments.

Virginia Paving

- Begin paving operations for Access C, Access A, and temporary relocation of Dominion Boulevard at Ramps A and B.

Century Concrete

- Continue installation of new Sound Wall at Ramp K

US Wick Drains

- Continue installation of wick drains at various locations to expedite pre-settlement of embankments

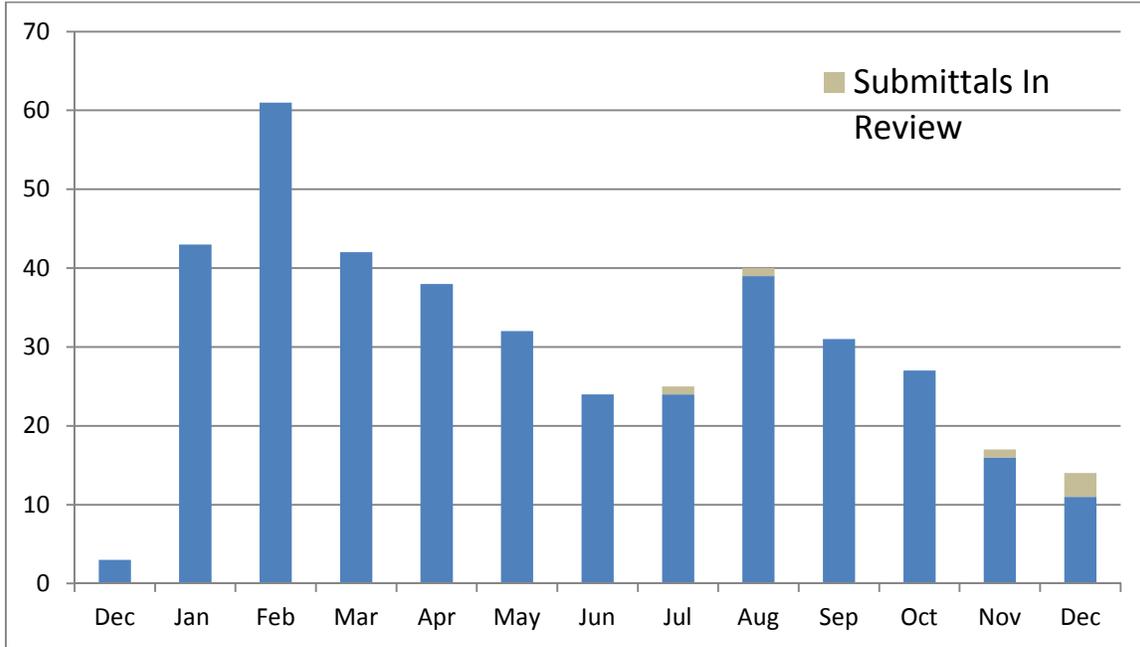
Virginia Sign and Lighting

- Install temporary signalizations in preparation for Dominion Boulevard temporary detour at Cedar Road intersection

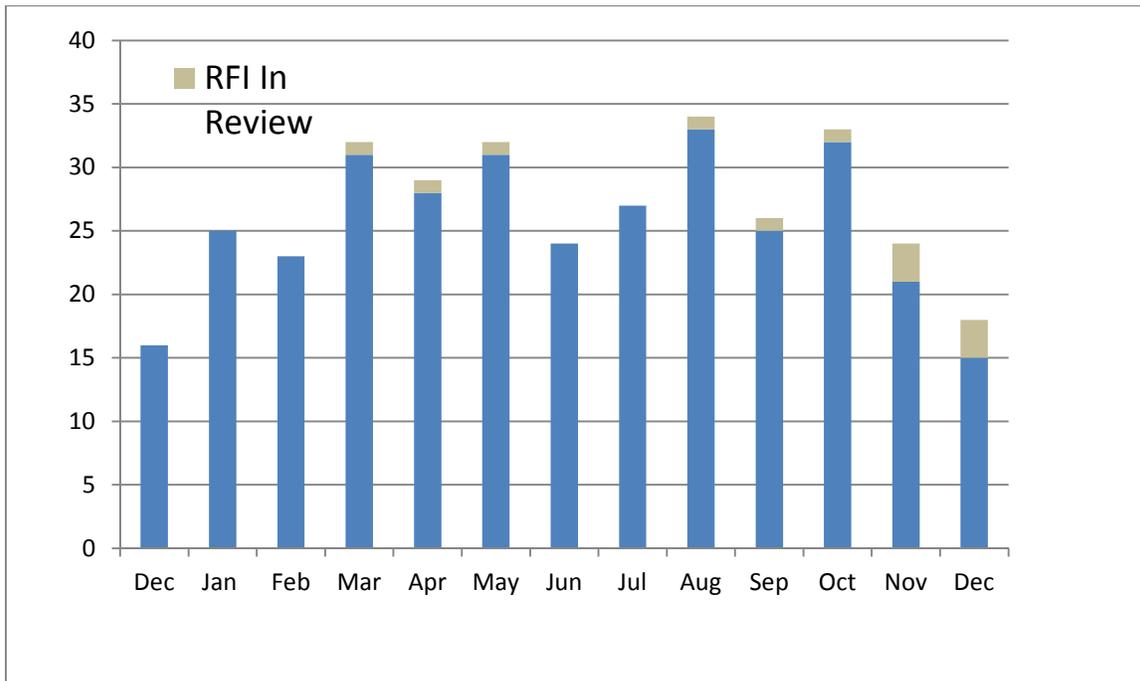
Change Orders

Requested Change Orders			
Change Order Number	Scope	Exposure from Change Orders (\$)	Expenditures from Change Orders (\$)
01	Add Flaggers & Portable Changeable Message Signs		\$91,071.25
02	Replace Porous fill with strip drains at MSE Walls		(\$1,444,802.94)
03	Raise B608 & B609 Bridge Footings		(\$810,117.50)
04	Add'l electric service per plan Rev. 1/18/2013		\$139,651.02
05	Add #57 stone to the contract		\$851,600.00
06	Add Trainees to the contract		\$45,000.00
07	2" HDPE Conduit - Bored		\$25,747.68
08	8" Sanitary Force Main Under Wetlands		\$22,601.25
09	B609 Pier 14 Pile Modif.		\$831,940.75
10	Temp. Signal at Bainbridge and Sta. 55+50		\$73,977.55
11	Type D Removable Pavement Markings for Concrete		\$47,400.00
12	Removal of Concrete Barriers (\$12.50/LF)		\$6,000.00
13	Ramp K/MSE Wall 22 Wick Drains	\$305,723.61	
14	Demolition/Removal of Existing Sound Wall	\$185,792.67	
15	Disposal of Unsuitable Material (base on 140,000 cy)	\$6,025,600.00	
16	MSE Walls at Bridge Abutments B610-B615	(\$239,207.30)	
17	Delete Aesthetic Treatment	(\$1,681,643.00)	
(TBD)	VDOT VMS Sign Removal/Reinstall	\$47,883.33	
(TBD)	Anti-Graffiti Paint - 8/26 Rec'd DBC's Revised Scope	\$521,839.12	
(TBD)	Structure 32-10 Add.	\$8,929.89	
(TBD)	GPS as-builts of utilities	\$14,367.48	
(TBD)	Plan Rev. No. 8 8" PVC Sewer	\$16,808.21	
(TBD)	Removal of Underground Water Storage Tanks	\$15,065.49	
(TBD)	Installation of Verizon Vaults and Pedestals	\$64,255.85	
(TBD)	Installation of Leak Detectors Water/Sewer Casings	\$13,510.86	
(TBD)	24" x 6" Reducer for Additional Fire Hydrant	\$4,172.63	
(TBD)	Relocation of the Pressure Sensor Telemetry	\$35,692.90	
(TBD)	Obstruction at 18" Jack and Bore	\$67,865.38	
(TBD)	Connection of Existing Sewer Laterals to New,	\$18,061.62	
(TBD)	Additional Work Associated with Revision 10	\$6,570.40	
(TBD)	Obstructions between Str. 23N-1 and 23N-2	\$23,114.87	
(TBD)	Additional Restrained Waterline	\$10,793.22	
(TBD)	Water Meter Vault at DR-1J50-1	\$11,157.98	
(TBD)	CCW Type D Lighting Control Cabinets	\$150,513.73	
(TBD)	Grass Cutting (based on 432 hrs)	\$152,556.48	
(TBD)	Plan Revision No 12 Added Wick Drains/Survey	\$35,593.37	
(TBD)	4 inch water meters at Great Bridge & Cedar	\$35,482.08	
(TBD)	Waterline Joint Restraint at Great Bridge Blvd.	\$4,701.38	
(TBD)	VMS Conductor Cable	\$19,502.00	
(TBD)	12" x 12" x 8" Junction Boxes	\$40,798.50	
(TBD)	Remove/Salvage Existing Signal Equipment	\$39,115.32	
(TBD)	Plan Revision No. 13 Additional Work	\$19,456.14	
(TBD)	Sewer Force Main Offset Blake/GBB (Ref. RFI 290)	\$40,020.56	
NA	RESCINDED: Utilities at 18" HRSD (Sta. 22+50 to Sta.	\$0.00	
NA	RESCINDED: Installation of F-Shaped Conc. Barrier	\$0.00	
NA	RESCINDED: Per RFI 191 - Storm Drain	\$0.00	
NA	RESCINDED: Relocate HRSD Leak Detector Conflict	\$0.00	
NA	RESCINDED: Storm Drain Adjustments	\$0.00	
	TOTAL	\$6,014,094.77	(\$119,930.94)
		Contract Addition	Credit

Submittals and RFI Status



Total Number of Submittals = 397; Number of Submittals in review = 6;



Total Number of RFI = 343; Number of RFI in review = 9;

SCHEDULE

- The Contractor submitted CPM schedule Update 6 with a data date of 12/25/2013 and is currently under review. Update 6 includes corrections to the logic and activity durations and has the project completion on March 29, 2017.

Milestones

Activity ID	Activity Name	Status	November 2013 Update 5		December 2013 Update 6	
			Early Finish	Late Finish	Early Finish	Late Finish
1MS1010	Access Road C Complete	Not Completed	9/5/2014	1/2/2015	10/9/2014	1/5/2015
1MS1020	Bridge B-616 Complete	Not Completed	4/28/2014	4/22/2015	5/21/2014	8/18/2015
1MS1030	Great Bridge Blvd Through Ramps complete	Not Completed	6/8/2016	3/31/2017	1/4/2016	3/31/2017
1MS1040	B615 Complete	Not Completed	1/25/2016	3/31/2017	10/27/2015	3/31/2017
1MS1045	B614 Complete	Not Completed	1/25/2016	3/31/2017	10/27/2015	3/31/2017
1MS1110	Ramp N Complete	Not Completed	10/27/2014	4/22/2015	5/21/2014	8/18/2015
1MS1120	Ramps P & J Complete	Not Completed	5/15/2014	4/22/2015	5/19/2014	8/18/2015
1MS1130	Ramp I Complete	Not Completed	6/12/2014	6/11/2015	8/1/2014	9/29/2015
1MS1140	Ramp M Complete	Not Completed	5/19/2014	6/11/2015	6/13/2014	9/29/2015
1MS1150	Shift Traffic to Phase 2 (Ramps I, L, M, P & under K Complete)	Not Completed	10/27/2014	4/22/2015	9/4/2014	8/18/2015
2MS1110	B-609 Complete	Not Completed	12/22/2014	1/2/2015	12/23/2014	1/5/2015
2MS1120	B-610 Complete	Not Completed	12/22/2014	3/31/2017	12/23/2014	3/31/2017
2MS1130	B-611 Complete	Not Completed	9/2/2014	1/2/2015	10/2/2014	1/5/2015
2MS1140	Shift Traffic to B-609	Not Completed	12/22/2014	1/2/2015	12/23/2014	1/5/2015
2MS1150	Ramp H Complete	Not Completed	12/22/2014	1/2/2015	12/23/2014	1/5/2015
2MS1160	Ramp G Complete	Not Completed	9/23/2014	1/2/2015	10/24/2014	1/5/2015
2MS1170	B-608 Complete	Not Completed	3/31/2017	3/31/2017	3/29/2017	3/31/2017
2MS1180	Close Ramps G, H, Dominion Lakes & DetourA	Not Completed	12/22/2014	11/18/2016	12/23/2014	11/18/2016
2MS1190	Ramp F & Bainbridge Blvd. Complete	Not Completed	4/15/2016	3/31/2017	3/14/2016	3/31/2017
334EW1170	Ramp G, to Box Culvert Complete	Not Completed	2/21/2014	1/2/2015	4/3/2014	1/5/2015
361EW1200	Station 361 to B614/B615 Complete	Not Completed	4/15/2016	3/31/2017	3/14/2016	3/31/2017
361EW1480	Station 361 to B614/B615 Complete	Not Completed	1/25/2016	3/31/2017	10/27/2015	3/31/2017
361EW1650	609 Abutment B through Ramp H Complete	Not Completed	12/22/2014	1/2/2015	12/23/2014	1/5/2015
3MS1000	Traffic to Temp Ramp A & B	Not Completed	4/24/2014	3/27/2015	5/28/2014	3/27/2015
3MS1011	Ramps C & D Available for B-609 traffic	Not Completed	3/25/2015	6/16/2015	5/8/2015	6/11/2015
3MS1020	Phase 3 Complete	Not Completed	10/5/2016	3/31/2017	9/13/2016	3/31/2017
3MS1030	Cedar Road/Moses Grandy Complete	Not Completed	4/19/2016	3/31/2017	5/27/2016	3/31/2017
612-M9000	B612 Complete	Not Completed	4/19/2016	3/30/2017	5/25/2016	3/30/2017
613-M9000	B613 Complete	Not Completed	3/7/2016	3/30/2017	3/31/2016	3/30/2017
GBMS1050	Great Bridge Blvd Phase 1 Complete	Not Completed	8/12/2014	4/22/2015	9/4/2014	8/18/2015
MS0020	Contract Completion	Not Completed	3/31/2017	3/31/2017	3/29/2017	3/31/2017
MS1020	Early Completion	Not Completed	9/22/2016	9/22/2016	9/22/2016	9/22/2016
RKEW4150	Ramp K Complete	Not Completed	5/28/2014	4/22/2015	7/11/2014	8/18/2015
RLEW1080	Place Traffic on completed Ramps R & L	Not Completed	10/5/2016	3/31/2017	5/13/2016	3/31/2017
RLEW1230	Ramp L Under K Complete	Not Completed	4/2/2014	4/22/2015	4/24/2014	8/18/2015
ROUT1090	Ramp O Complete	Not Completed	5/29/2014	4/22/2015	6/26/2014	8/18/2015
AHEW1080	Access Road H Complete	Completed				
609-D1010	Clearing and Access Complete	Completed				
RKUT4110	Ramp K Utilities Complete	Completed				
RNEW1000	Ramp N Ground Improvements (Tied to RKEW4050)	Completed	11/25/2013	9/2/2014		
2MS1100	Shift Traffic To Detour A	Completed				

Reviewed by: _____
Mike Prezioso, PE, CCM, MBP

cc: Kevin Lundgren, PE, City of Chesapeake
Leon Malczewski, CCM, MBP

Attachement: Progress Photos



11/19/2013 77" Deep Girders set on B609 Pier Caps



12/20/2013 77" Deep Girders set on B609 Pier Caps



11/26/2013 B609 Pier 13 River Footing concrete placement



12/20/2013 B609 Pier 13 River Footing



12/12/2013 B616 Straddle Bent Pier Cap and MSE Wall at Ramp K



12/20/2013 B616 Straddle Bent Pier Cap and MSE Wall at Ramp K



12/12/2013

12/12/2013 Ramp K Sound Wall #2 under construction



12/20/2013

12/20/2013 Ramp K Sound Wall #2 Column installation



12/17/2013 Curb and Gutter concrete placement at Access C



12/20/2013 Temporary Ramp A West of Dominion Blvd



12/20/2013 B609 looking North Pier 4



12/20/2013 B609 Pier 13 River Footing looking North



12/20/2013 B610 (Dominion Blvd NB over Bainbridge) Abutment Piles



12/20/2013 B609 Looking South