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 February 28, 2014

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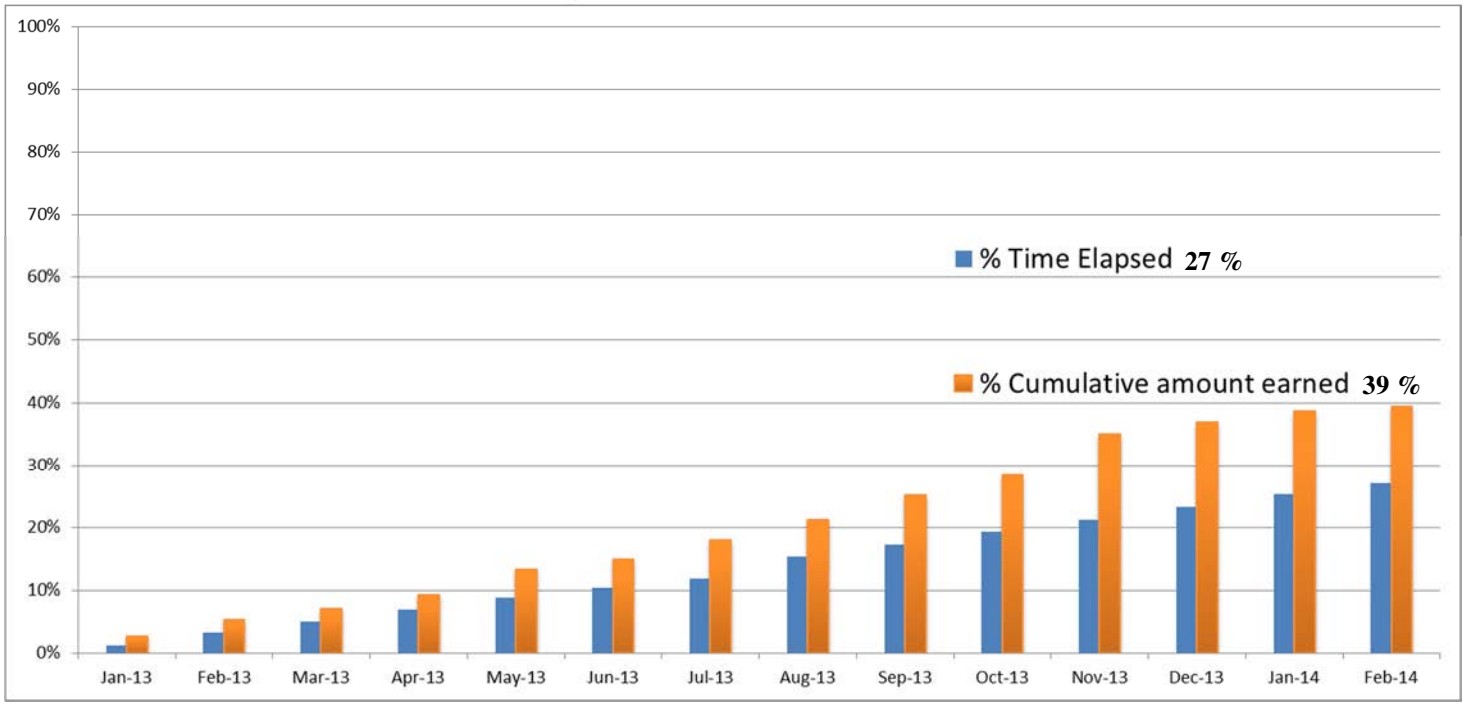
ATTACHMENT: Progress Photographs

PROJECT STATUS (Schedule and Budget)

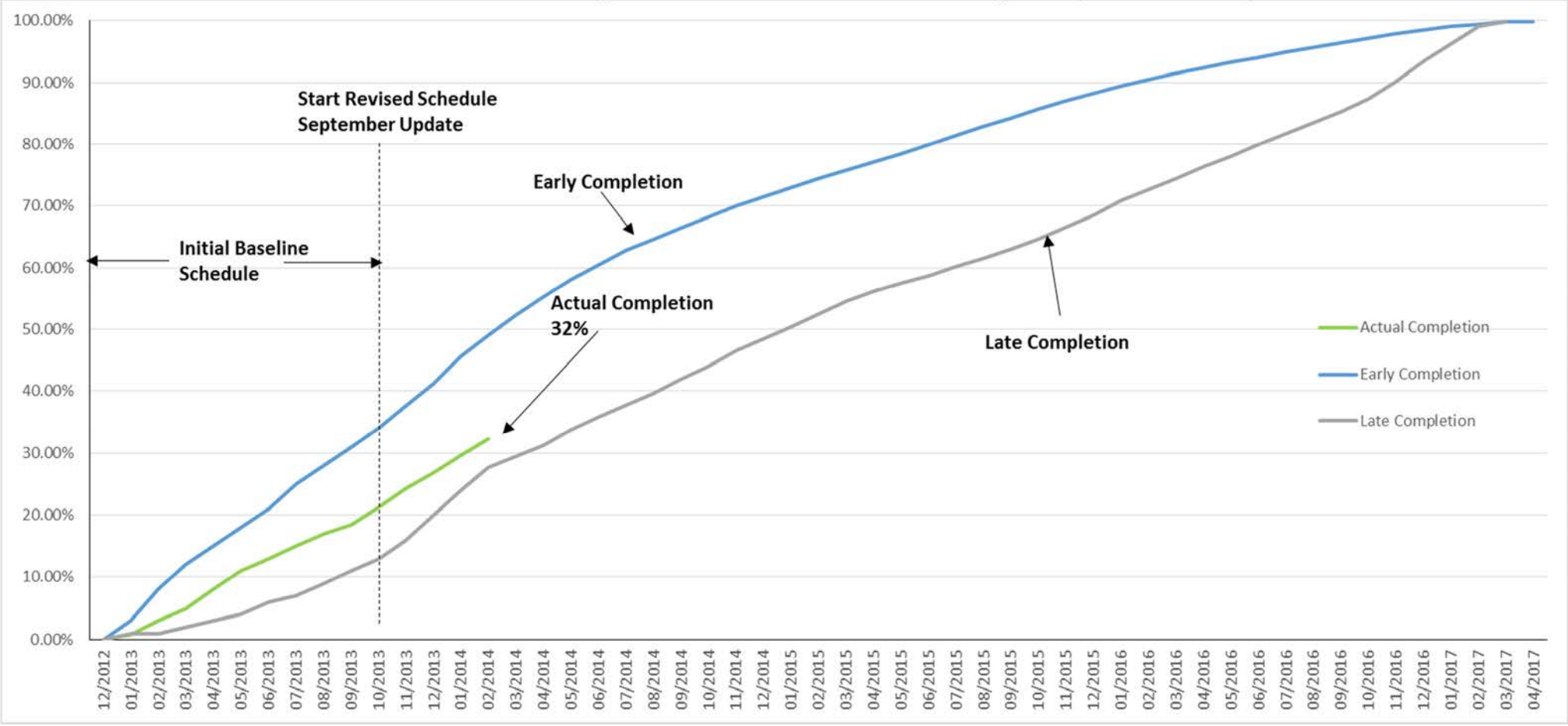
Schedule		Budget	
Contract Type	Fixed Date	Original Contract Value	$188,070,320
Fixed Contract Completion Date	04/01/2017	Exposure (Pending Change Orders)	$ 6,373,339
Contract Duration (Days)	1,546	Expenditures (Approved Change Orders)	($ 119,931)
Time Extension (Days)	0	Exposure (Projected Quantity Overruns)	$ 2,335,088
Current Contract Duration (Days)	1,546	Expenditures (Actual Quantity Overruns)	$ 4,502,600
		11/26/13 Council Resolution-Scope Mod	$ 3,000,000
Notice to Proceed	01/07/2013	Current Estimated Contract Value	$ 204,181,416
First Day of Work	01/07/2013	Amount Paid Prior Periods	$ 75,065,706
Contract Days Elapsed	417	Amount Paid this Period	$ 4,217,692
Contract Days Remaining	1,129	Cumulative Amount Paid	$ 79,283,398
Estimated Completion Date	04/01/2017	Value Stock Piled Materials	$ 15,025,357
		Total Contract Cost to Date	$ 94,308,755
% Contract Work Complete	**32%**		
% Contract Days Elapsed	**27%**	% Current Estimated Contract Value Paid (Not Including Stored Materials)	**39%**
% Contract Time Remaining	73%	% Current Estimated Contract Value Remaining	61%



Cumulative amount paid vs Time Elapsed (NTP to February 28, 2014)

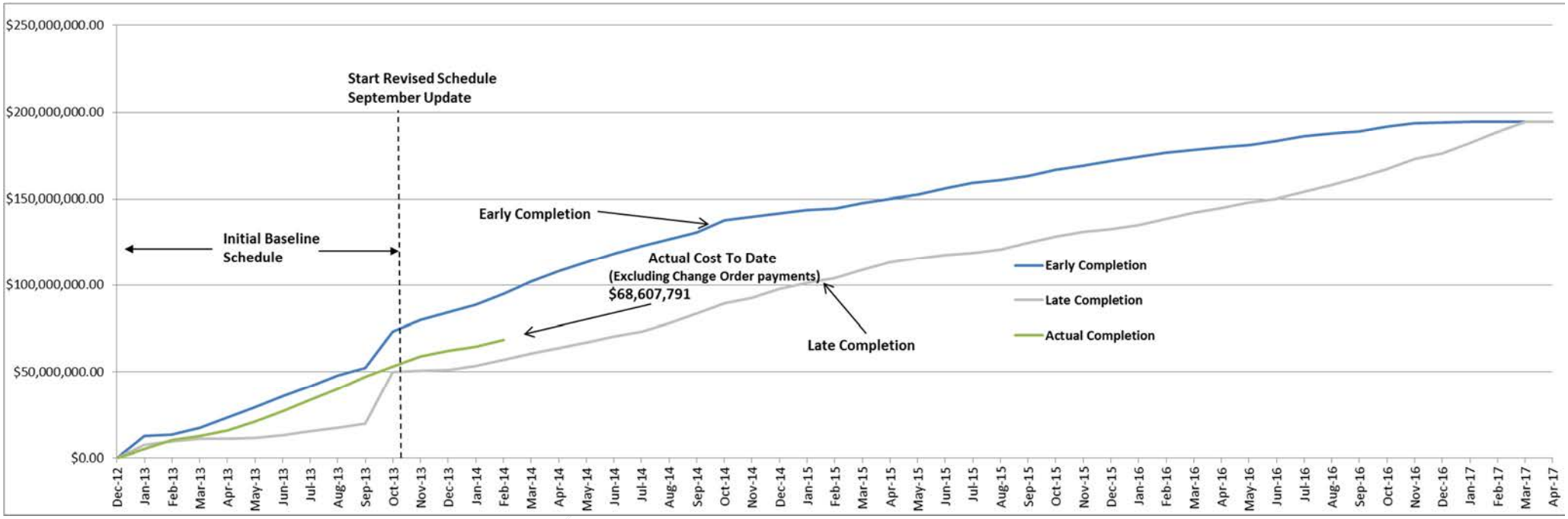
SCHEDULE

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



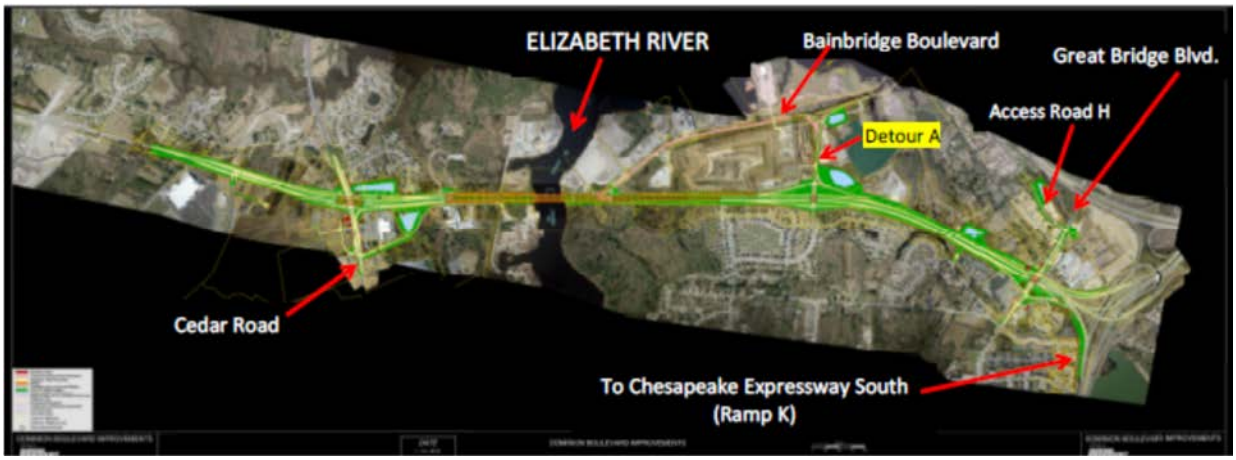
As of February 28, 2014

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



As of February 28, 2014

SIGNIFICANT ACCOMPLISHMENTS THIS MONTH (Feb. 1 – Feb. 28, 2014)



Bridge Descriptions	B612- Dominion Blvd SB over Cedar Rd/Moses Grandy Trail
B608- Dominion Blvd SB over Elizabeth River	B613- Dominion Blvd NB over Cedar Rd/Moses Grandy
B609- Dominion Blvd NB over Elizabeth River	B614- Dominion Blvd SB over Great Bridge Blvd
B610- Dominion Blvd SB over relocated Bainbridge Blvd	B615- Dominion Blvd NB over Great Bridge Blvd
B611- Dominion Blvd NB over Dominion Lakes Blvd/Relocated Bainbridge Blvd.	B616- 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) - ***Approximately 55% Complete:***

- Continued bridge deck concrete placement north of the river (Completed 14 of 42 spans).
- Completed placing concrete for all footings.
- Continued placing concrete for columns and caps
- Continued setting 77 inch deep girders at spans north of the river
- **(See Attached Progress Photos)**

B608 (Dominion Blvd SB over Elizabeth River) - ***Approximately 3% Complete:***

- Continued driving piles for bents north of the river
- Continued placing concrete for footings
- Continued placing concrete for bent caps

B616 (Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp) - ***Approximately 75% Complete:***

- Completed post tensioning of spliced girders

B610 and B611 (Dominion Blvd SB and NB over relocated Bainbridge Blvd) -*Approximately 2% Complete*

- Completed driving piles for Abutments
- No additional work pending completion of MSE Walls

B612 and B613 (Dominion Blvd SB and NB over CedarRd/Moses Grandy) - *Approximately 1% Complete:*

- Began driving test piles

Roadway Construction (DBC, Inc):

- Continued installation of storm drainage system at various locations
- Continued installation of new water 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
- Continued construction of Access A, Access AA and prepared for partial opening in March 2014.

Major Subcontractors

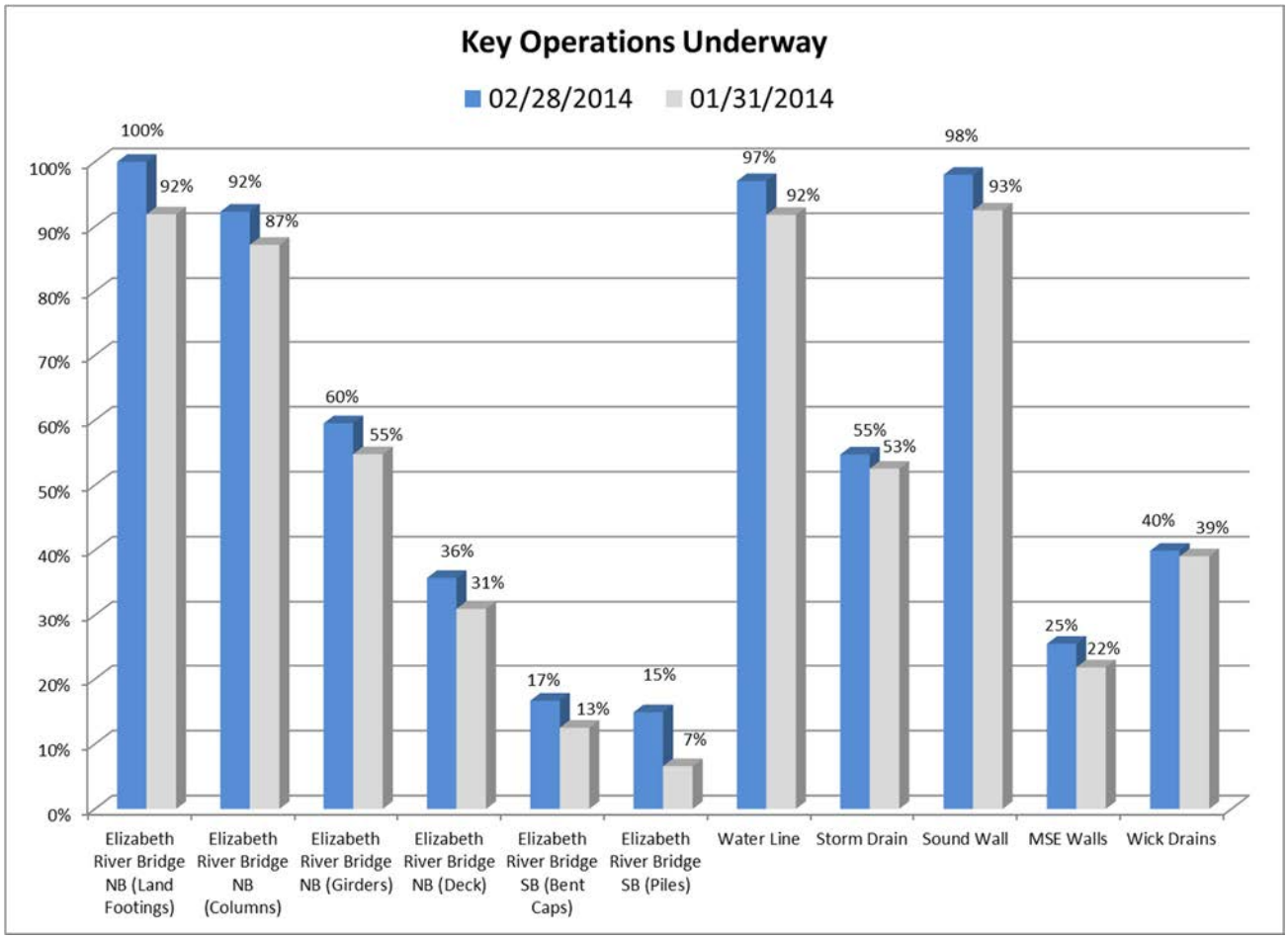
- **Bissette Construction Corp**
  - Continued installation of storm drain systems south of Elizabeth River at various locations

- **Hampton Roads Utility**
  - Continued installation of new water lines

- **US Wick Drains**
  - Installed wick drains for B609 Abutment A approach

- **Roche Brothers**
  - Continued installing MSE Wall Panels at B609 Abutment A and B
  - Continued installing MSE Wall Panels at B616 Abutment A and B
  - Continued installing MSE Wall Panels at B610 and B611 Abutment B

- **Uretek ICR Mid- Atlantic**
  - Completed additional test nails for Soil Nail Wall



Project Key Operation Status as of 02/28/2014

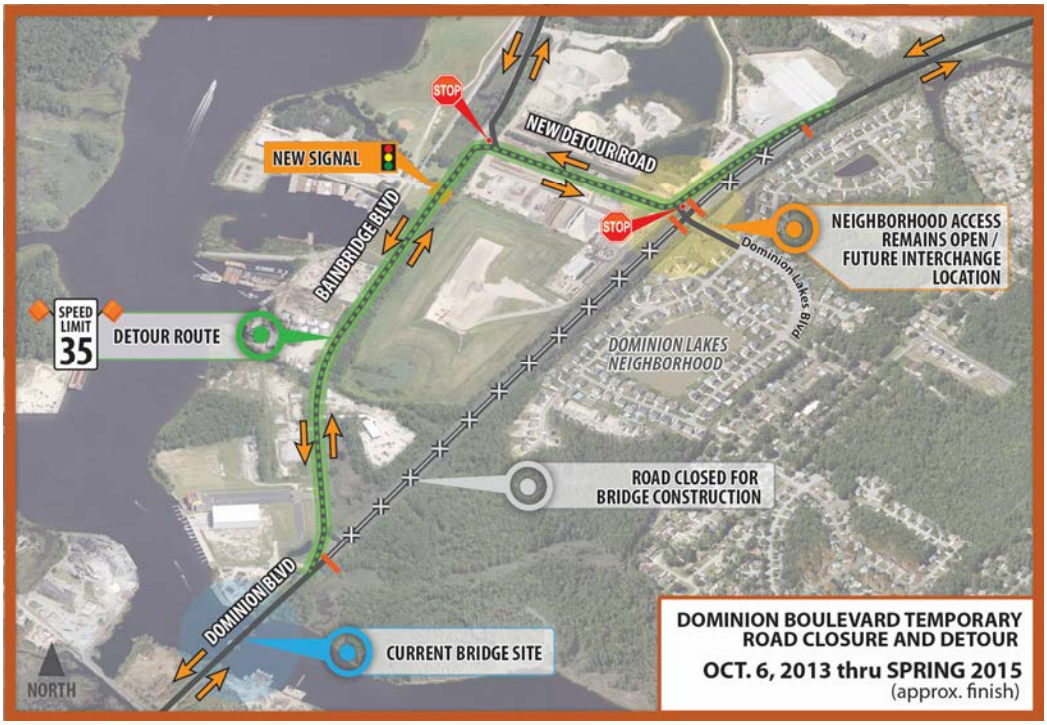
Key Operations Completed	Month Completed
Elizabeth River Bridge NB (Bent Caps)	Aug-13
Elizabeth River Bridge NB (Piles)	Sep-13
Open Detour A	Oct-13
Elizabeth River Bridge NB (River Footings)	Nov-13
Opened relocated Dom Blvd. at Cedar Road	Jan-14

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

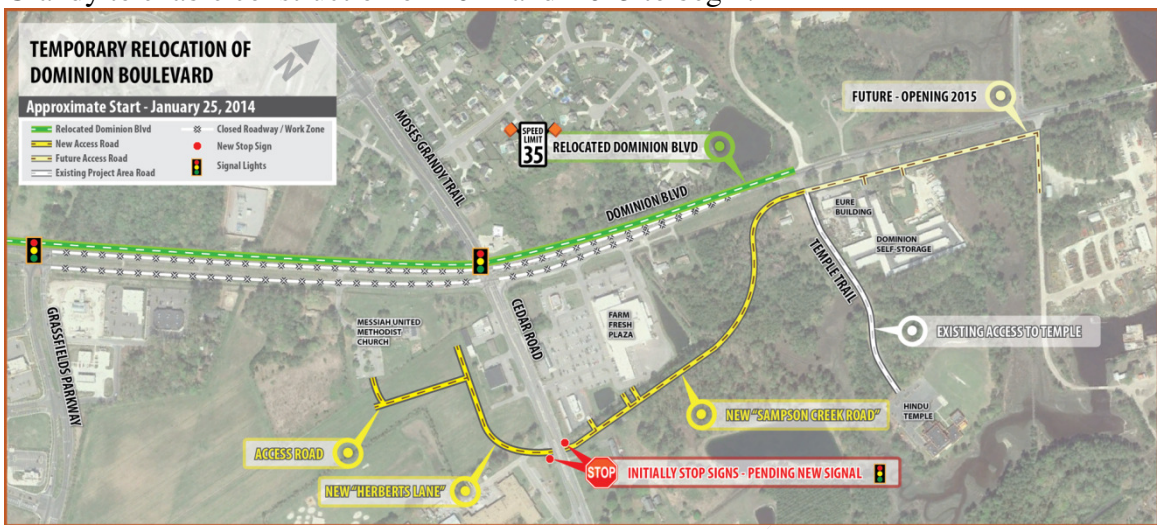


Detour A (Relocated Bainbridge) completed:
(Arrows show temp. traffic pattern for Dominion Blvd.)

- 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

- Traffic on Dominion Blvd. was shifted slightly to a temporary roadway at Moses Grandy to enable construction of B612 and B613 to begin.



Dominion Blvd. Traffic is shifted to Temp Ramps A and B Location

ANTICIPATED WORK PLANNED FOR NEXT MONTH (03/01/14 – 03/31/14)

DBC Joint Venture

- B609 (Dominion Blvd. NB Bridge over Elizabeth River)
  - Continue formwork and construction of pier columns and pier caps south of the river.
  - Prepare to set main span girders over 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 rivers
  - Continue concrete placements for bent caps, columns and footings
- B616 (Dom. Blvd./Rte. 168 SB Ramp over Great Bridge Blvd. to I-64 Ramp)
  - Begin formwork for bridge deck
- B610 and B611 (Dominion Blvd SB and NB over relocated Bainbridge Blvd)
  - No work pending construction of MSE Walls
- B612 and B613 (Dominion Blvd SB and NB over Cedar Rd/ Moses Grandy)
  - Begin driving production piles for Abutments and Piers
- Continue installation of storm drainage systems at various locations
- Continue widening of Dominion Blvd. including MSE walls for ramps at Dominion Lakes.
- Interim opening of Access A and AA at temporary location at Cedar Road.

Hampton Roads Utilities

- Continue installation of the City of Chesapeake relocated water lines

Roche Brothers

- Continue installation of MSE Walls at B609, B610 and B611 Abutments

Virginia Paving

- Complete interim paving operations for Access Roads A and AA

Century Concrete

- Complete color coating Sound Wall at Ramp K

US Wick Drains

- Continue installation of wick drains between B609 and Cedar Road

Reliance Concrete Contractors Inc.

- Begin installation of concrete parapets on MSE Wall 16

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	$72,643.23	
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	($1,838,302.58)	
18	4 inch water meters at Great Bridge & Cedar	$10,772.06	
19	Relocation of the Pressure Sensor Telemetry	$23,457.35	
20	Water Meter Vault at DR-1J50-1	$11,157.98	
21	Anti-Graffiti Paint - 8/26 Rec'd DBC's Revised Scope	$219,823.36	
(TBD)	VDOT VMS Sign Removal/Reinstall	$47,883.33	
(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)	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)	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)	Temporary Drainage at Detour A	$17,634.06	
(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)	16" Waterline Repairs at Bainbridge	$18,547.95	
(TBD)	24" Waterline tie-in delays at Cedar Road	$8,114.82	
(TBD)	New High Mast Lighting Assembly	$65,842.27	
(TBD)	Plan Revision No. 14 Additional Work	$635,806.18	
(TBD)	Soil Nail Wall	$262,089.42	
NA	**RESCINDED**: Sewer Force Main Offset Blake/GBB	$0.00	
NA	**RESCINCED**: Utilities at 18" HRSD (Sta. 22+50 to Sta.	$0.00	
NA	**RESCINCED:** Installation of F-Shaped Conc. Barrier	$0.00	
NA	**RESCINDED:** Per RFI 191 - Storm Drain	$0.00	
NA	**RESCINCED:** Relocate HRSD Leak Detector Conflict	$0.00	
NA	**RESCINDED:** Storm Drain Adjustments	$0.00	
	TOTAL	$6,373,338.56	($119,930.94)
		Contract Addition	**Credit**

Unit Price Item Quantities – Projected and Actual Overruns

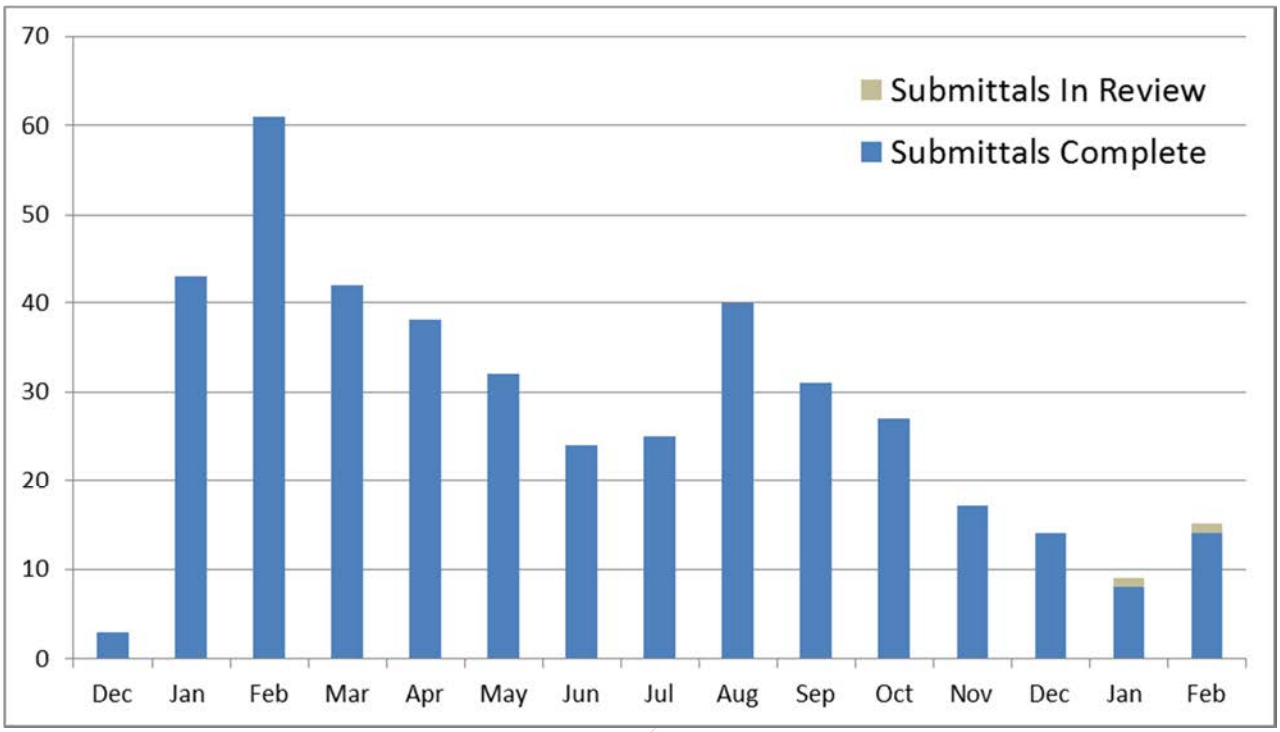
Unit Price Item Quantity Overruns (Actual Quantity Overruns)				
Item Number	Description	Actual Quantiy Overrun	Units	Actual Cost Overrun
111	CLEARING AND GRUBBING	27.55	AC	$ 212,135.00
505	BEDDING MATERIAL AGGR. NO. 25 OR 26	1732.48	TON	$ 135,999.68
27500	GEOTEXTILE FABRIC	15141.66	SY	$ 101,449.12
27550	STORMWATER MANAGEMENT DRAINAGE STRUCTURE SWM-1	8.5	LF	$ 52,979.40
9150	EROSION CONTROL STONE (CLASS I), EC-1	2628.79	SY	$ 387,693.95
85003	UNDERCUT EXC @ TWICE REG EXC	29264.89	CY	$ 1,463,244.50
24602	REMOVE EXISTING (FENCE)	4564	LF	$ 14,513.52
2093	NS PRE-DRILLING OF WICK DRAINS	214869	LF	$ 397,507.65
64808	DRIVING TEST FOR PRESTRESSED CONCRETE PILES 12"	464	LF	$ 25,520.00
27526	TURBIDITY CURTAIN, IMPERVIOUS	1226	LF	$ 22,092.52
515	TEMPORARY SHEET PILING	6106.43	SF	$ 152,660.75
56052	BORED CONDUIT 4"	31261	LF	$ 1,028,486.90
64101	DYNAMIC PILE TEST (FRICTION PILES)	4.33	EA	$ 12,990.00
64416	PRESTR. CONCRETE PILES 16"	338	LF	$ 21,970.00
64424	PRESTR. CONCRETE PILES 24"	400.6	LF	$ 32,048.00
64868	DRIVING TEST FOR 24" PRESTR. CONC. PILE	237	LF	$ 35,550.00
40121	12" DI WATER MAIN	172	LF	$ 14,368.88
40408	18" BEND	4	EA	$ 11,283.64
42080	8" PVC SAN PIPE	179.35	LF	$ 28,184.85
44301	NS FURNISH and INSTALL 24" LINSTOP	2	EA	$ 147,317.04
42788	2" AIR RELEASE VALVE & BOX FORCE MAIN	5	EA	$ 17,037.50
	MISC ITEMS			$ 187,566.76
	Total			$ 4,502,599.66

Unit Price Item Quantity Overruns (Projected Quantities)				
Item Number	Description	Projected Quantiy Overrun	Unit Price	Projected Cost Overrun
111	Clearing and Grubbing (AC)	27.3	$ 7,700.00	**$ 210,210.00**
120	Regular Excavation (CY)	37000	$ 29.00	**$ 1,073,000.00**
212	Minor Structure Excavation Box Culvert (CY)	1280	$ 35.00	**$ 44,800.00**
505	Bedding Material Aggr. No. 25 or 26 (Ton)	2700	$ 78.50	**$ 211,950.00**
27500	Geotextile Fabric (SY)	18090	$ 6.70	**$ 121,203.00**
525	Concrete Class A3 Misc. (CY)	59	$ 2,913.26	**$ 171,882.34**
27550	Stormwater Management Drainage Str. SWM-1 (LF)	22	$ 6,232.87	**$ 137,123.14**
9150	Erosion Control Stone (Class I) EC-1 (SY)	2710	$ 147.48	**$ 399,670.80**
85003	Undercut Exc @ Twice Reg Exc (CY)	18713	$ 50.00	**$ 935,650.00**
13570	NS Retaining Wall MSE (SF)	5000	$ 56.37	**$ 281,850.00**
2093	NS Pre-Drilling of Wick Drains (LF)	665,000.00	$ 1.85	**$ 1,230,250.00**
515	Temporary Sheet Piling (SF)	10000	$ 25.00	**$ 250,000.00**
24283	Police Patrol (HR)	1200	$ 42.40	**$ 50,880.00**
56052	Bored Conduit 4" (LF)	31580	$ 32.90	**$ 1,038,982.00**
56053	2" PVC Conduit (LF)	36330	$ 2.25	**$ 81,742.50**
64424	Prestr. Concrete Piles 24"(LF)	400.6	$ 80.00	**$ 32,048.00**
64868	Driving Test for 24" Prestr. Conc Piles (LF)	237	$ 150.00	**$ 35,550.00**
64416	Prestr. Concrete Piles 16"(LF)	3340	$ 65.00	**$ 217,100.00**
42080	8" PVC San. Pipe(LF)	179.35	$ 157.15	**$ 28,184.85**
44301	NS Furnish and Install 24" Linstop(EA)	2	$ 73,658.52	**$ 147,317.04**
Various	Misc. Items			**$ 158,294.51**
			Total	**$ 6,857,688.18**

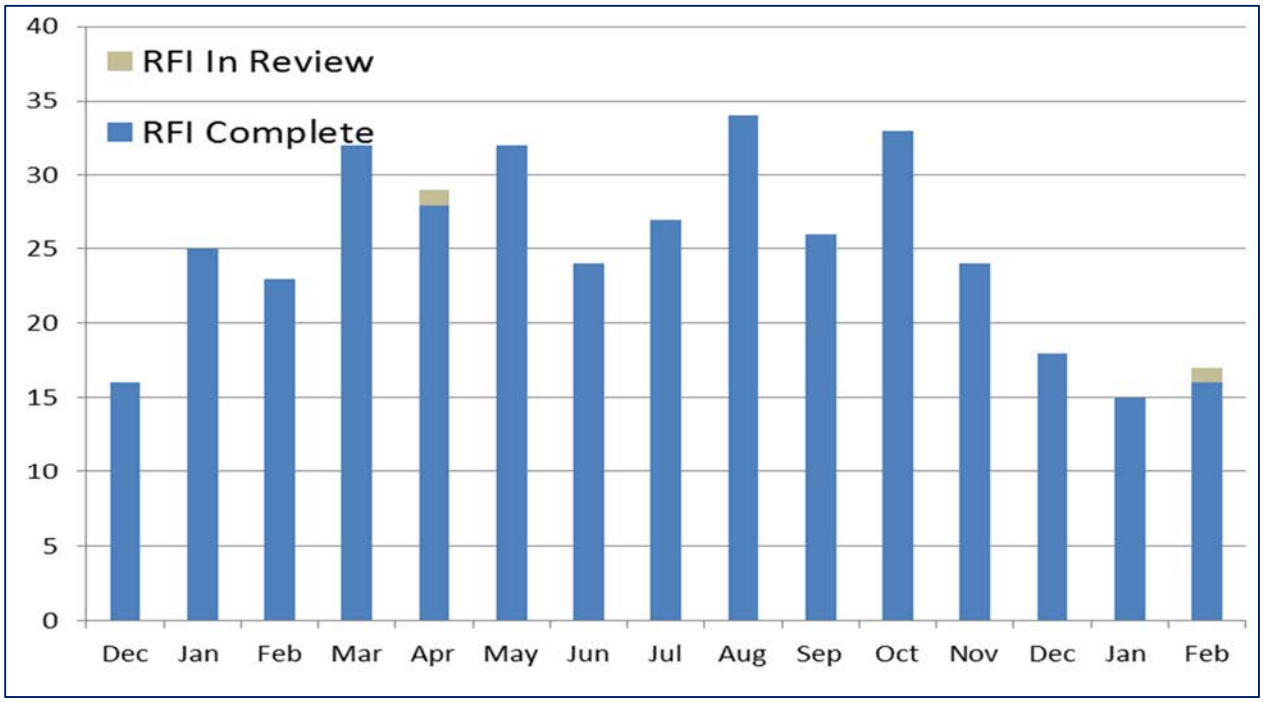
Summary Unit Price Item Overruns:

Current Projected Quantity Overruns	$ 6,857,688.18
Actual Quantity Overruns	$ 4,502,599.66
Net Projected Quantity Overruns	$ 2,355,088.52

Submittals and RFI Status



Total Number of Submittals = 421; Number of Submittals in review = 2;



Total Number of RFI = 375; Number of RFI in review = 2;

SCHEDULE

- The Contractor submitted CPM schedule Update 8 with a data date of 02/26/2014 and is currently under review. Update 8 has the project completion on March 31, 2017.

Milestones

Activity ID	Activity Name	Status	January 2014 Update 7		Febuary 2014 Update 8		Actual Finish
			Early Finish	Late Finish	Early Finish	Late Finish	
1MS1010	Access Road C Complete	Not Completed	9/19/2014	1/5/2015	9/29/2014	1/5/2015	
1MS1020	Bridge B-616 Complete	Not Completed	6/18/2014	8/18/2015	5/21/2014	8/20/2015	
1MS1030	Great Bridge Blvd Through Ramps complete	Not Completed	2/4/2016	3/31/2017	2/19/2016	3/31/2017	
1MS1040	B615 Complete	Not Completed	11/19/2015	3/31/2017	12/3/2015	3/31/2017	
1MS1045	B614 Complete	Not Completed	11/19/2015	3/31/2017	12/3/2015	3/31/2017	
1MS1110	Ramp N Complete	Not Completed	6/18/2014	8/18/2015	5/21/2014	8/20/2015	
1MS1120	Ramps P & J Complete	Not Completed	6/4/2014	8/18/2015	6/30/2014	8/20/2015	
1MS1130	Ramp I Complete	Not Completed	4/10/2014	9/29/2015	4/22/2014	9/30/2015	
1MS1140	Ramp M Complete	Not Completed	7/10/2014	9/29/2015	6/13/2014	9/30/2015	
1MS1150	Shift Traffic to Phase 2 (Ramps I, L, M, P & under K Complete)	Not Completed	9/23/2014	8/18/2015	8/18/2014	8/20/2015	
2MS1110	B-609 Complete	Not Completed	12/31/2014	1/5/2015	1/5/2015	1/5/2015	
2MS1120	B-610 Complete	Not Completed	12/31/2014	3/31/2017	1/5/2015	3/31/2017	
2MS1130	B-611 Complete	Not Completed	10/24/2014	1/5/2015	11/6/2014	1/5/2015	
2MS1140	Shift Traffic to B-609	Not Completed	12/31/2014	1/5/2015	1/5/2015	1/5/2015	
2MS1150	Ramp H Complete	Not Completed	12/31/2014	1/5/2015	1/5/2015	1/5/2015	
2MS1160	Ramp G Complete	Not Completed	11/17/2014	1/5/2015	12/11/2014	1/5/2015	
2MS1170	B-608 Complete	Not Completed	3/29/2017	3/31/2017	3/31/2017	3/31/2017	
2MS1180	Close Ramps G, H, Dominion Lakes & DetourA	Not Completed	12/31/2014	11/18/2016	1/5/2015	11/21/2016	
2MS1190	Ramp F & Bainbridge Blvd. Complete	Not Completed	4/4/2016	3/31/2017	4/21/2016	3/31/2017	
334EW1170	Ramp G, to Box Culvert Complete	Not Completed	5/28/2014	1/5/2015	6/24/2014	1/5/2015	
361EW1200	Station 361 to B614/B615 Complete SB	Not Completed	4/4/2016	3/31/2017	4/21/2016	3/31/2017	
361EW1480	Station 361 to B614/B615 Complete NB	Not Completed	11/19/2015	3/31/2017	12/3/2015	3/31/2017	
361EW1650	609 Abutment B through Ramp H Complete	Not Completed	12/31/2014	1/5/2015	1/5/2015	1/5/2015	
3MS1011	Ramps C & D Available for B-609 traffic	Not Completed	6/3/2015	6/11/2015	3/4/2015	6/11/2015	
3MS1020	Phase 3 Complete	Not Completed	9/21/2016	3/31/2017	7/12/2016	3/31/2017	
3MS1030	Cedar Road/Moses Grandy Complete	Not Completed	3/17/2016	3/31/2017	2/29/2016	3/31/2017	
612-M9000	B612 Complete	Not Completed	3/16/2016	3/30/2017	2/29/2016	3/30/2017	
613-M9000	B613 Complete	Not Completed	1/21/2016	3/30/2017	1/4/2016	3/30/2017	
GBMS1050	Great Bridge Blvd Phase 1 Complete	Not Completed	9/23/2014	8/18/2015	8/4/2014	8/20/2015	
MS0020	Contract Completion	Not Completed	3/29/2017	3/31/2017	3/31/2017	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	8/4/2014	8/18/2015	8/13/2014	8/20/2015	
RLEW1080	Place Traffic on completed Ramps R & L	Not Completed	6/3/2016	3/31/2017	6/17/2016	3/31/2017	
RLEW1230	Ramp L Under K Complete	Not Completed	4/14/2014	8/18/2015	4/21/2014	8/20/2015	
ROUT1090	Ramp O Complete	Not Completed	7/17/2014	8/18/2015	8/18/2014	8/20/2015	
AHEW1080	Access Road H Complete	Completed					7/26/2013
609-D1010	Clearing and Access Complete	Completed					3/22/2013
RKUT4110	Ramp K Utilities Complete	Completed					6/10/2013
RNEW1000	Ramp N Ground Improvements (Tied to RKEW4050)	Completed					10/30/2013
2MS1100	Shift Traffic To Detour A	Completed					10/6/2013
3MS1000	Traffic to Temp Ramp A & B	Completed					1/25/2014

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

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

Attachement: Progress Photos

01/31/2014 Looking North at B609 NB from Elizabeth River Southern Bank

02/27/2014 Looking South at B609 NB from Elizabeth River Northern Bank

01/31/2014 B616 Straddle Bent Pier Cap Post Tensioned

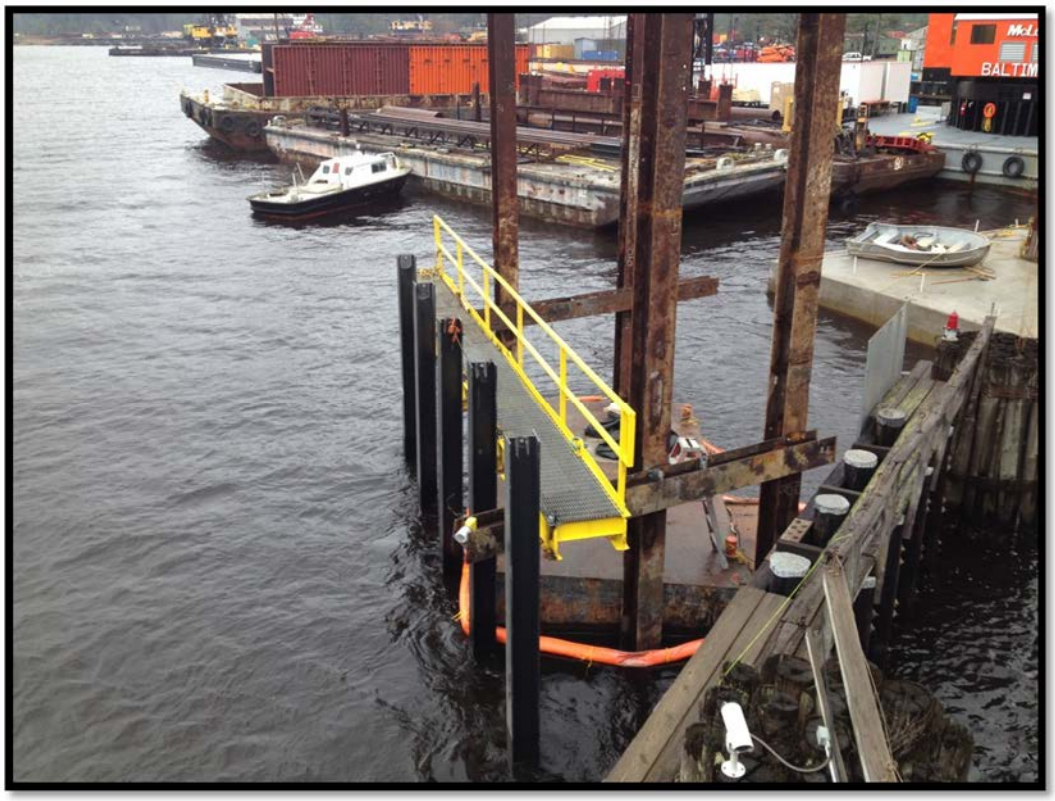
02/24/2014 B616 Straddle Bent and Girders

01/17/2014 B610 and B611 Piles Driven

02/24/2014 B610 and B611 Abutment B Piles

01/17/2014 Access C Curb and Gutter

02/24/2014 Access C Initial Asphalt and New Entrances to Farm Fresh/Sonic



02/03/2014 Fender Piles East of Steel Bridge

03/02/2014 B616 Girders Looking North

03/02/2014 B616 Grouting of Post Tensioned Strands

02/27/2014 Spliced Girder Erection on B609