

# **Route 58 Corridor from Hillsville to Stuart**

## **Hillsville By-Pass Project**

### **Quarterly Report**

**Period**

**January 1, 2010 through March 31, 2010**



**Branch Highways, Inc.**

# Quarterly Report

## 1. Introduction

This report includes a summary of the work performed during the period beginning January 1, 2010 and ending March 31, 2010. Project activities including design, permit monitoring, and construction took place during this period.

## 2. Status of Project Plans and Project Schedule

Plans including Safety, Environmental, Quality Assurance and Quality Control, and Construction Traffic Management Plans have been previously completed. The initial detailed CPM Schedule has been submitted and approved. Monthly schedule updates are being submitted with the monthly payment requests per the contract requirements.

## 3. Status of Construction Drawings

Construction Plans including Grading, Erosion and Sediment Control, Deep Drainage and Box Culverts, Storm Water Management Ponds, Bridges, Cross-sections, Utilities, Permanent signs, Phase II Erosion and Sediment Control, Pavement markings, and Surface Drainage have been submitted, approved and released for construction. Drawings that still need approval include Final Pavement Sections/Details, and Permanent Lighting. These remaining construction drawings are still in the submittal/approval/release for construction process. In-stream Plans of Operations along with Plans and Agreements for additional waste and borrow sites are being submitted as needed.

## 4. Status of Project Permits

Permits are being held by VDOT for this project. The latest revised permit sketches were provided by VDOT on May 2, 2008. Permit obligations such as pre-construction monitoring have been completed for work areas where construction activities have started. Construction monitoring and reporting is on-going per the permit obligations. The Second Year Construction Monitoring Report was submitted for agency approval in January of 2010. As of April 1st 2010 in-stream work in impact sites #18 and 18A will again be allowed by the permit. Any in-stream work at these sites must conclude prior to October 1st per the permit requirements.

## 5. Project Team Members Under Contract

The project team currently consists of the following organizations listed alphabetically:

- a. Adams Construction Company to furnish and install asphalt for paved areas;
- b. DLB Inc. to construct the bridges and to install the precast box culverts;
  - i. ACE Steel, Inc. for reinforcing steel placement (Second Tier Subcontractor to DLB)
  - ii. Bedford Well Drilling for bridge H-pile drilling (Second Tier Subcontractor to DLB)

- iii. Lanford Bros. for substructure repair (Second Tier Subcontractor to DLB)
- iv. Penhall Company for bridge deck grooving (Second Tier Subcontractor to DLB)
- v. Olympus Painting Contractors for Bridge Painting (Second Tier Subcontractor to DLB)
- vi. Seaboard Foundations, Inc. for pre-drilling bridge H-pile (Second Tier Subcontractor to DLB)
- vii. Watts Barrier Walls for Bridge Parapet wall construction (Second Tier Subcontractor to DLB)
- c. E.C. Pace Company to furnish and install water and sanitary sewer utilities;
- d. Easter Fencing to furnish and install the Right of Way fence;
- e. Environmental Erosion Control LLC to furnish and install erosion control items;
- f. Greenhorne & O'Mara, Inc. to perform the asbestos abatement, abatement air monitoring and demolition of existing structures;
- g. Gregory Seeding & Landscaping, Inc. to furnish and install permanent and temporary seeding and the wetlands plantings;
  - i. Seven Oaks Landscaping, to furnish and install stream and wetland plants (Second Tier Subcontractor to Gregory Seeding and Landscaping, Inc.)
- h. Hanson Pipe & Products to furnish the precast concrete box culverts;
- i. HNTB Corporation for design, construction inspection and permit monitoring;
- j. Kanawha Stone Company to perform most of the mass excavation operations;
- k. Midasco Incorporated to furnish and install the permanent signs, highway electrical, and highway lighting;
- l. Nickelston Industries, Inc. to furnish and install guardrail;
- m. Payne's Parking Designs, Inc. to furnish and install permanent and temporary pavement markings;
- n. Permatile Concrete Products to furnish the precast concrete drainage pipe and structures;
- o. Salem Stone Corporation to furnish the aggregates;
- p. Slurry Pavers, Inc. to perform sub-grade soil cement stabilization;
- q. Stockner Excavation, LLC to perform clearing operations at the far east end of the job;
- r. Thompson & Litton to perform the construction survey and layout;
- s. West Contracting Inc. to perform the initial clearing and grubbing.

## 6. Work Started and Completed

Due to the snow and cold conditions that lingered for many months the jobsite was essentially shut down with the exception of bridge work, and erosion and sediment control work during this quarter. As needed, maintenance of the traffic control devices was performed. This maintenance work was especially needed after the snow plows made their passes by the work areas.

### Work Area #1 – Webb Wetland Mitigation Site

The as-built grades in the Webb Wetlands were approved in January. Minor re-work of the berms in the wetlands will take place once the site conditions allow machinery to enter the site, and as resources become available. The monitoring wells were installed and data collection started during the first part of February. The wetland plants are currently scheduled to be planted in the fall of 2010.

Work Area #2 – Rt 58/221 (Far west end) to End of Rt 58/221 work (Station 45+45)

The finishing touches for the surface drainage in the east bound lanes of Rt. 58/221 will conclude in April and May as the pipe crews return to work. Widening work on the west bound lanes at the far west end of the project remains at the base asphalt phase.

Bridge B-617 (located on the east bound lanes of Route 58/221) is awaiting pavement placement up to the approaches and ultimately the traffic switch onto it.

Bridge B-616 which carries the westbound lanes of the Route 58 Bypass over Route 58/221 has base asphalt tied to the start of the deck on the south side. Fine-grade work still needs to be performed on the north side of this bridge before stone and asphalt can be placed.

Bridge B618 will carry westbound Rt. 58 By-pass traffic over Little Reed Island Creek. Currently the last two pieces of foundation work are under way at the west pier and east abutment footer. Once finished with this pier and abutment footer the wing and back walls for each abutment will be finished.

Stream plantings at Little Reed Island Creek concluded with the last small area of plants installed on the west side of the creek. This area was too wet previously to access without tearing up the surroundings. The remaining compensation areas to be planted are the Webb Wetlands and the Beaver Dam Creek stream compensation area. These two areas will have the plants installed during the fall 2010 planting season.

Work Area #3 – Rt. 58 Bypass (South of Rt 58/221 Station 103+70) to Howlett Street (Station 115)

The two west bound travel lanes along with the shoulder areas are covered with the first of two lifts of base asphalt. All but a small section of the east bound lanes are also covered with both base asphalt layers. Cleaning and maintenance of the erosion and sediment control structures was an ongoing task over the last three months.

Work Area #4 – Howlett Street (Station 115) to East of Rt. 52 (Station 132)

Bridge B-615 (Howlett Street over Rt. 58) is substantially complete and open to traffic. Once the final tie-in with surface asphalt is made the permanent guardrail and permanent pavement markings will be installed.

Essentially all of Area #4's travel lanes have one layer of base asphalt placed already, this includes the travel lanes of mainline alignment and two of the four ramps. Only a portion of the shoulder asphalt has been placed in this area to date. Starting in the second quarter the asphalt subcontractor will resume operations placing the shoulder asphalt and second layer of base asphalt in the travel lanes.

#### Work Area #5 – East of Rt. 52 (Station 132) to Snake Creek Road Area (Station 158)

The box and balance operations will resume in Area 5 and continue east once a fine-grade crew is finished with work on the far east end temporary detours. Pipe crews will pick up where they left off last season in Area #5 finishing this work and move to Cut 6 where pipe trench drilling and shooting will be underway.

Work at the twin bridges B612 and B613 which will go over the new alignment of Snake Creek Road started in February. There is an extensive amount of h-pile to be installed at these bridges and there are two substantial MSE walls to be constructed, one continuous wall at each approach and departure side of the bridges.

#### Work Area #6 – Snake Creek Area (Station 158) to East end Tie-in

Work at Bridge B611 was responsible for nearly all the activity in Area #6 during this quarter. The center pier construction was completed in early February. The north and south abutments are both under construction. The footings at both abutments have been placed.

Ramp I excavation remains at close to 80% complete. Excavation will pick back up in Ramp I towards the end of April. There remains a sizable quantity of material under existing Route 58 which will be excavated when traffic is moved to Ramp I and Detour #6.

The mass excavation for the project is about 90% complete, no major excavation has taken place since last quarter due to the winter weather.

Stored materials have been approved by VDOT for bridge structural steel, steel decking, h-pile, right-of-way fencing, box culvert, and guardrail. These material values are reflected in Attachment 1 which is part of the monthly pay estimates.

The project is on schedule to meet the contract substantial completion date of September 1, 2011. There were no material disputes or claims, actions or assertions against the Contractor, the Project or Project Right of way, or Lien claims or stop notices file or threatened to be filed by any Person for the period.

Please find the following attachments.

1. A chart and graph depicting the actual cumulative payment value and the maximum cumulative payment value allowed by the contract.
2. Project progress photos for the work during this quarter.

**ACTUAL AND MAXIMUM EARNINGS  
RT. 58 PPTA - PHASE 2 HILLVILLE BYPASS**

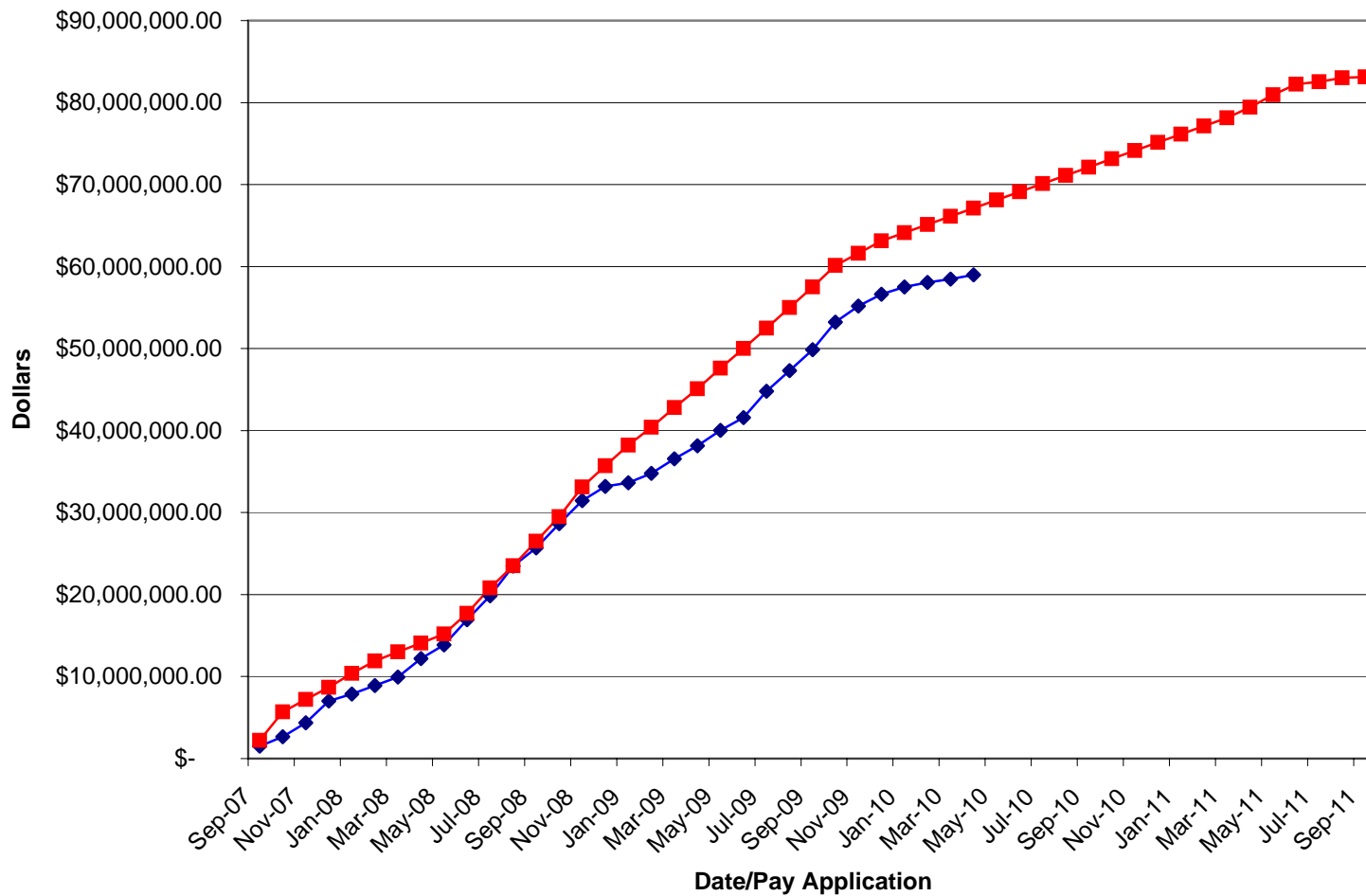
		Actual Monthly	Cumulative	Estimated	Cumulative
Month	Date	Earnings	Actual Monthly Earnings	Monthly Draw	Maximum Allowable Monthly Draw
1	09/20/07	\$ 1,500,000.00	\$ 1,500,000.00	\$ 2,200,000.00	\$ 2,200,000.00
2	10/20/07	\$ 1,150,000.00	\$ 2,650,000.00	\$ 3,500,000.00	\$ 5,700,000.00
3	11/20/07	\$ 1,709,500.00	\$ 4,359,500.00	\$ 1,500,000.00	\$ 7,200,000.00
4	12/20/07	\$ 2,650,500.00	\$ 7,010,000.00	\$ 1,500,000.00	\$ 8,700,000.00
5	01/20/08	\$ 851,950.00	\$ 7,861,950.00	\$ 1,700,000.00	\$ 10,400,000.00
6	02/20/08	\$ 1,036,150.00	\$ 8,898,100.00	\$ 1,500,000.00	\$ 11,900,000.00
7	03/20/08	\$ 1,047,600.00	\$ 9,945,700.00	\$ 1,100,000.00	\$ 13,000,000.00
8	04/20/08	\$ 2,253,500.00	\$ 12,199,200.00	\$ 1,100,000.00	\$ 14,100,000.00
9	05/20/08	\$ 1,666,300.00	\$ 13,865,500.00	\$ 1,100,000.00	\$ 15,200,000.00
10	06/20/08	\$ 3,045,380.21	\$ 16,910,880.21	\$ 2,500,000.00	\$ 17,700,000.00
11	07/20/08	\$ 2,921,142.73	\$ 19,832,022.94	\$ 3,100,000.00	\$ 20,800,000.00
12	08/20/08	\$ 3,621,732.87	\$ 23,453,755.81	\$ 2,700,000.00	\$ 23,500,000.00
13	09/20/08	\$ 2,244,500.00	\$ 25,698,255.81	\$ 3,000,000.00	\$ 26,500,000.00
14	10/20/08	\$ 2,944,970.32	\$ 28,643,226.13	\$ 3,000,000.00	\$ 29,500,000.00
15	11/20/08	\$ 2,802,662.50	\$ 31,445,888.63	\$ 3,600,000.00	\$ 33,100,000.00
16	12/20/08	\$ 1,738,856.34	\$ 33,184,744.97	\$ 2,600,000.00	\$ 35,700,000.00
17	01/20/09	\$ 463,461.00	\$ 33,648,205.97	\$ 2,500,000.00	\$ 38,200,000.00
18	02/20/09	\$ 1,148,716.24	\$ 34,796,922.21	\$ 2,200,000.00	\$ 40,400,000.00
19	03/20/09	\$ 1,750,950.00	\$ 36,547,872.21	\$ 2,400,000.00	\$ 42,800,000.00
20	04/20/09	\$ 1,592,642.50	\$ 38,140,514.71	\$ 2,300,000.00	\$ 45,100,000.00
21	05/20/09	\$ 1,894,207.25	\$ 40,034,721.96	\$ 2,500,000.00	\$ 47,600,000.00
22	06/20/09	\$ 1,538,820.11	\$ 41,573,542.07	\$ 2,400,000.00	\$ 50,000,000.00
23	07/20/09	\$ 3,236,630.25	\$ 44,810,172.32	\$ 2,500,000.00	\$ 52,500,000.00
24	08/20/09	\$ 2,485,358.61	\$ 47,295,530.93	\$ 2,500,000.00	\$ 55,000,000.00
25	09/20/09	\$ 2,576,430.97	\$ 49,871,961.90	\$ 2,500,000.00	\$ 57,500,000.00
26	10/20/09	\$ 3,338,616.59	\$ 53,210,578.49	\$ 2,628,664.09	\$ 60,128,664.09
27	11/20/09	\$ 1,963,554.66	\$ 55,174,133.15	\$ 1,500,000.00	\$ 61,628,664.09
28	12/20/09	\$ 1,439,630.00	\$ 56,613,763.15	\$ 1,500,000.00	\$ 63,128,664.09
29	01/20/10	\$ 912,137.50	\$ 57,525,900.65	\$ 1,000,000.00	\$ 64,128,664.09
30	02/20/10	\$ 535,300.00	\$ 58,061,200.65	\$ 1,000,000.00	\$ 65,128,664.09
31	03/20/10	\$ 418,712.49	\$ 58,479,913.14	\$ 1,000,000.00	\$ 66,128,664.09
32	04/20/10	\$ 505,300.00	\$ 58,985,213.14	\$ 1,000,000.00	\$ 67,128,664.09
33	05/20/10			\$ 1,000,000.00	\$ 68,128,664.09
34	06/20/10			\$ 1,000,000.00	\$ 69,128,664.09
35	07/20/10			\$ 1,000,000.00	\$ 70,128,664.09
36	08/20/10			\$ 1,000,000.00	\$ 71,128,664.09
37	09/20/10			\$ 1,000,000.00	\$ 72,128,664.09
38	10/20/10			\$ 1,000,000.00	\$ 73,128,664.09
39	11/20/10			\$ 1,000,000.00	\$ 74,128,664.09
40	12/20/10			\$ 1,000,000.00	\$ 75,128,664.09
41	01/20/11			\$ 1,000,000.00	\$ 76,128,664.09
42	02/20/11			\$ 1,000,000.00	\$ 77,128,664.09
43	03/20/11			\$ 1,000,000.00	\$ 78,128,664.09
44	04/20/11			\$ 1,300,000.00	\$ 79,428,664.09
45	05/20/11			\$ 1,500,000.00	\$ 80,928,664.09
46	06/20/11			\$ 1,300,000.00	\$ 82,228,664.09
47	07/20/11			\$ 300,000.00	\$ 82,528,664.09
48	08/20/11			\$ 500,000.00	\$ 83,028,664.09
49	09/20/11			\$ 100,000.00	\$ 83,128,664.09
<b>Totals</b>		<b>\$ 58,985,213.14</b>		<b>\$ 83,128,664.09</b>	

Added Revenue/ Volume for VDOT WO3 / Bog Turtle Survey/Trapping (\$128,664.09) to month 26

Revised Total = \$83,000,000 + \$128,664.09 = \$83,128,664.09

\*\*Funding for future phases to be determined.

### Actual vs. Maximum Allowable Monthly Earnings Rt. 58 PPTA - Phase 2 Hillsville Bypass





**Image 1 - Little Reed Island Creek Stream Planting, east side, 2/4/10**



**Image 2 - B618 west cofferdam looking east, 3/26/10**





**Image 3 - B612+613 west side h-pile, 3/1/10**



**Image 4 - B612+613 aggregate base for MSE leveling pad, west abutment, 3/26/10**



**Image 5 - Fill 7 looking east, snow, 2/15/10**



**Image 6 - B611 looking north, pier and Abutment A h-pile, 1/28/10**



**Image 7 - B611 looking south, Abutment B 3/1/10**



**Image 8 - B611 Abutment A driving h-pile, 2/4/10**