



*Request for Proposals*

## LETTER OF SUBMITTAL AND ATTACHMENTS

### I-64 Pavement Rehabilitation

From: Roads Bridge Tunnel (East Abutment)

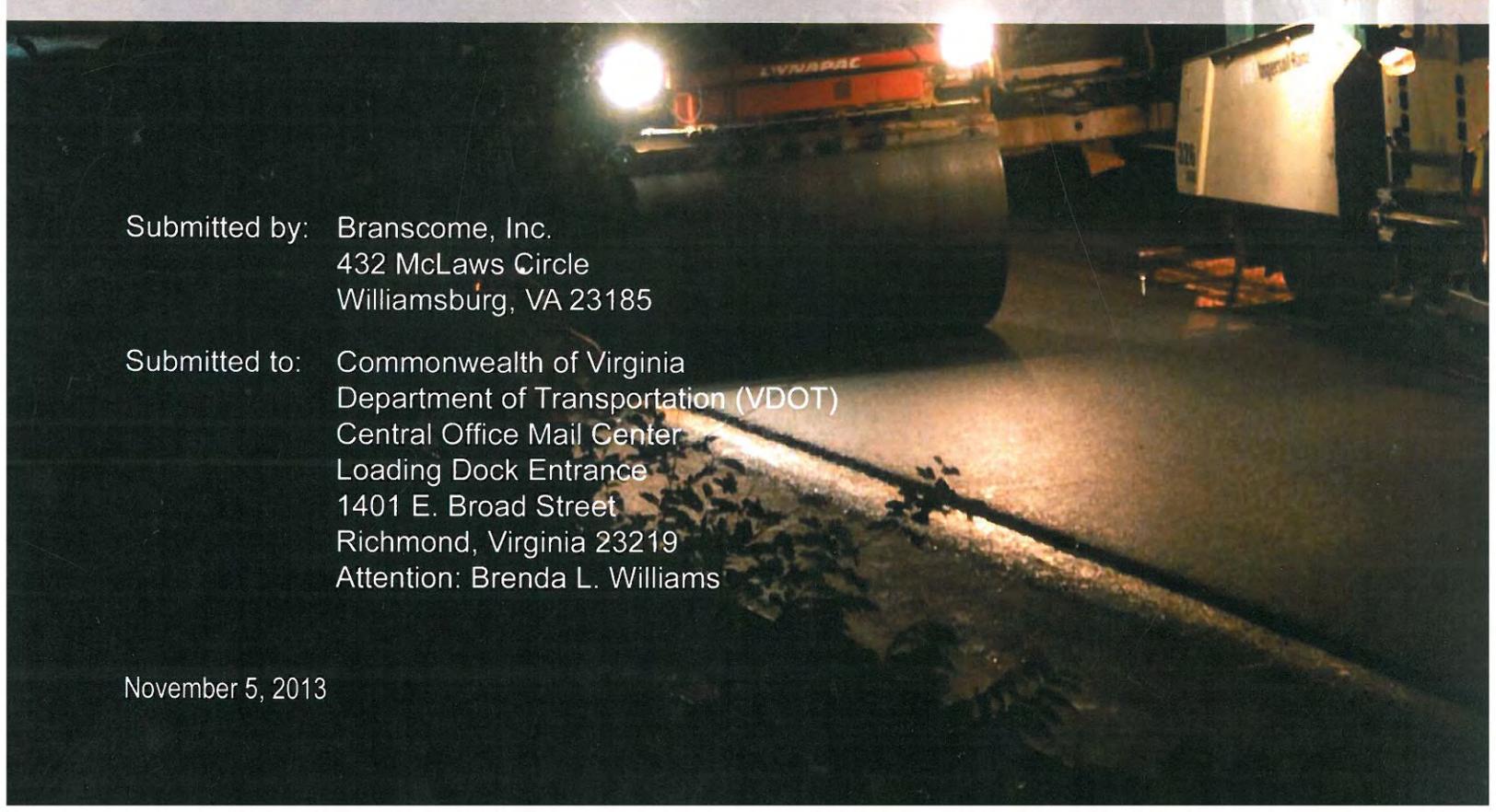
To: Little Creek Road Bridge (West Abutment)

Norfolk, Virginia

State Project No.: 0064-122-302, N501

Federal Project No.: IM-064-3(473)

Contract ID Number: C00104330DB66



Submitted by: Branscome, Inc.  
432 McLaws Circle  
Williamsburg, VA 23185

Submitted to: Commonwealth of Virginia  
Department of Transportation (VDOT)  
Central Office Mail Center  
Loading Dock Entrance  
1401 E. Broad Street  
Richmond, Virginia 23219  
Attention: Brenda L. Williams

November 5, 2013

#### 4.1.1 Letter of Submittal

November 5, 2013

Mr. Bill Arel, PE  
Alternative Project Delivery Office, Virginia Department of Transportation  
1401 East Broad Street; Annex Bldg., 8<sup>th</sup> Floor, Richmond, VA, 23219

Re: Request for Proposals for I-64 Pavement Rehabilitation

www.branscome.com

Dear Mr. Arel:

As the largest paving contractor in Hampton Roads, Branscome, Inc. (Branscome) wants to be your chosen contractor for the Virginia Department of Transportation's I-64 Pavement Rehabilitation project in Norfolk, Virginia submits this Proposal. Branscome, Inc., one of the largest and most respected contractors in the Mid-Atlantic region, has built more than \$1 billion of highway and interstate projects in just the last ten years. Our lead design firm, Dewberry Consultants LLC (Dewberry), is an experienced and well-established engineering firm with the stability, resources, and personnel depth to craft an outstanding project design, having done more than \$2.5 billion of work on design-build projects.

432 MCLAWS CIRCLE  
WILLIAMSBURG, VIRGINIA 23185

PHONE: 757-229-2504

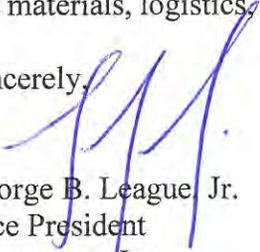
FAX: 757-220-0390

Branscome and Dewberry (the Branscome Team) brings VDOT the experienced capabilities to design and build this project in a quality-focused, efficient and cost-effective manner. Our experience includes interstate construction, interchange improvements, road widening, structures, new roadway construction, and overlay projects. For more than 50 years, Branscome has worked with VDOT on hundreds of transportation infrastructure projects. And for more than 57 years, Dewberry has brought the Commonwealth creative, stakeholder-friendly, transportation engineering solutions.

Unique among all other offerors, Branscome has two asphalt plants within five miles and two more within 20 miles of the project. Branscome can get raw materials for asphalt production from four different sources; two come by separate rail lines and two by barge. And Branscome has three stone yards ready and available to deliver and stage materials, equipment, and trucks within five miles of the project. Branscome management and supervision are local to the area and work daily in the vicinity of the project. We employ six paving crews in Hampton Roads and can bring on seven more crews, if needed. Branscome has a 4,000 SF office space within two miles of the project capable of housing all personnel needed to manage and administer the project.

Branscome's well integrated team is exceptionally positioned to effectively and efficiently handle all the materials, logistics, communication, management, and administration of this project.

Sincerely,



George B. League, Jr.  
Vice President  
Branscome, Inc.

#### 4.1.1 Full Legal name and address of the Offeror

The full legal name and address of the Offeror is:

Brancome, Inc.  
432 McLaws Circle  
Williamsburg, VA 23185

**4.1.2** Branscome Inc. hereby declares, that if selected, it will enter into a contract with VDOT for the project per the RFP

**4.1.3** Branscome hereby declares that the offer represented by this Letter of Submittal and associated Attachments and the Price Proposal will remain in full force and effect for one hundred twenty (120) days after the date these documents are submitted to VDOT.

#### 4.1.4 Point of Contact for the Offeror

George B. League, Jr. is the official representative and Point of Contact for the Branscome, Inc. His contact information is as follows:

George B. League, Jr.	757-229-2504 (Telephone)
Design-Build Project Manger	757-220-0390 (Fax)
432 McLaws Circle	757-449-9601 (Cell)
Williamsburg, VA 23185	<a href="mailto:leagueb@branscome.com">leagueb@branscome.com</a>

#### 4.1.5 Principal Officer for the Offeror

The principal officer of Branscome, Inc. with whom a design-build contract with VDOT would be written is:

Stuart Patterson	757-229-2504 (Telephone)
President	757-220-0390 (Fax)
432 McLaws Circle	757-941-7501 (Cell)
Williamsburg, VA 23185	<a href="mailto:pattersons@branscome.com">pattersons@branscome.com</a>

**4.1.6** The final completion date will be November 30, 2014.

#### 4.1.7 Debarment Forms

The full page Certification Regarding Debarment Form Primary Covered Transactions and Lower Tier Covered Transactions are located in the Appendices section.

#### 4.1.8 Offeror's commitment to achieving 3% DBE participation goal

Branscome's policy is to support the establishment of, preservation of, and contribute to the viability of small businesses owned by women and minorities. Branscome, Inc. is fully committed to achieving the DBE participation goal of 3% of the entire value of the contract.



**LETTER OF SUBMITTAL ATTACHMENTS  
TABLE OF CONTENTS:**

- Attachment 3.5 Form C-78-RFP
- Attachment 4.0.1.1 Letter of Submittal Checklist
- Attachment 11.8.6(a) Primary Tier Debarment
- Attachment 11.8.6(b) Lower Tier Debarment
- 4.2.1 Organization Chart
- 4.2.2 Project Schedule
  - Project Schedule Narrative
- CD ROM containing entire Letter of Submittal and Attachments

**ATTACHMENT 4.0.1.1**

**I-64 Pavement Rehabilitation**

**LETTER OF SUBMITTAL CHECKLIST AND CONTENTS**

Offerors shall furnish a copy of this Letter of Submittal Checklist, with the page references added, with the Technical Proposal.

<b>Letter of Submittal Component</b>	<b>Form (if any)</b>	<b>RFP Part 1 Cross Reference</b>	<b>Page Reference</b>
<b>Letter of Submittal Checklist and Contents</b>	Attachment 4.0.1.1	Section 4.0.1.1	II. 1 - 2
<b>Acknowledgement of RFP, Revisions, and/or Addenda</b>	Attachment 3.5 (Form C-78-RFP)	Sections 3.5, 4.0.1.1	II. 3
<b>Letter of Submittal</b>			
Letter of Submittal on Offeror's letterhead	NA	Sections 4.1	1 - 2
Offeror's full legal name and address	NA	Section 4.1.1	1
Authorized representative's original signature	NA	Section 4.1.1	2
Declaration of intent	NA	Section 4.1.1	2
120 day declaration	NA	Section 4.1.2	2
Point of Contact information	NA	Section 4.1.3	2
Principal Officer information	NA	Section 4.1.4	2
Interim Milestone and Final Completion Dates	NA	Section 4.1.5	2
Certification Regarding Debarment Forms	NA	Section 4.1.6	2
Written statement of percent DBE participation	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.7	Appendix 1 - 8
<b>Offeror's Qualifications</b>	NA	Section 4.1.8	2
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2	II. - 4
Organizational chart with any updates since the SOQ	NA	Section 4.2.1	II. - 4
	NA	Section 4.2.2	II. - 4

**ATTACHMENT 4.0.1.1**

**I-64 Pavement Rehabilitation**

**LETTER OF SUBMITTAL CHECKLIST AND CONTENTS**

<b>Letter of Submittal Component</b>	<b>Form (if any)</b>	<b>RFP Part 1 Cross Reference</b>	<b>Page Reference</b>
submittal clearly identified to include Lead QA Inspector			
Revised narrative when organizational chart includes updates since the SOQ submittal to include Lead QA Inspector	NA	Section 4.2.2	II. - 4
<b>Proposal Schedule</b>	NA	Section 4.2.2	II. 5 - 20
Proposal Schedule	NA	Section 4.2.2	II. 5 - 17
Proposal Schedule Narrative	NA	Section 4.2.2	II. 18 - 20
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.2	

**ATTACHMENT 3.5****COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF TRANSPORTATION**

RFP NO. C00104330DB66  
 PROJECT NO.: 0064-122-302, N501

**ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA**

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of RFP: July 30, 2013  
(Date)
2. Cover letter of Addendum #1: September 27, 2013  
(Date)
3. Cover letter of Addendum #2: October 31, 2013  
(Date)

  
 \_\_\_\_\_  
 SIGNATURE  
**George B. League, Jr. - Vice President**  
 \_\_\_\_\_  
 PRINTED NAME AND TITLE

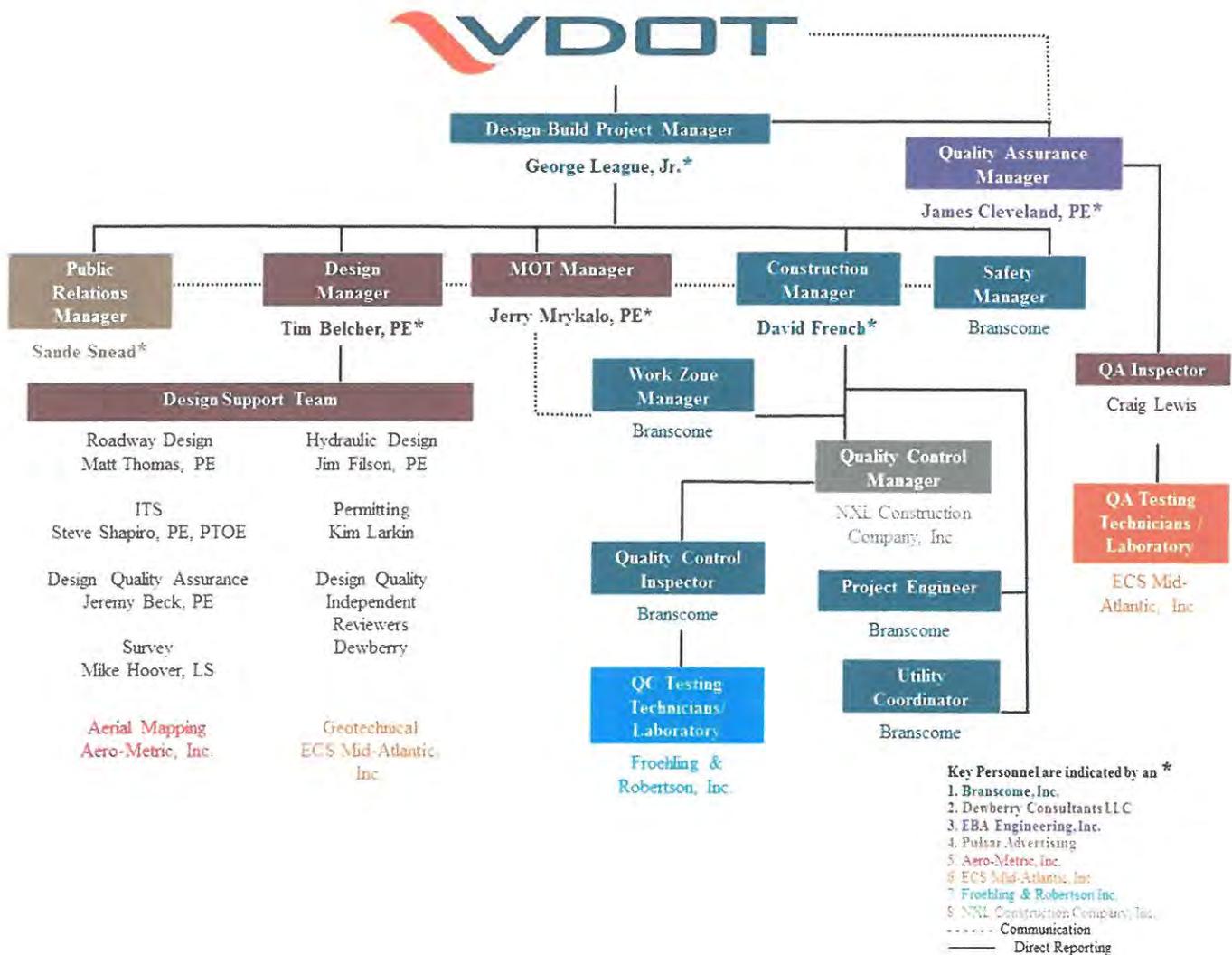
**November 5, 2013**  
 \_\_\_\_\_  
 DATE

## 4.2.1 Offeror's Qualifications

## 4.2 OFFEROR'S QUALIFICATIONS

The Branscome Design Build (DB) Team confirms that the information contained in our SOQ remains true and accurate in accordance with Section 11.4. The organizational chart narrative as provided in our SOQ is wholly incorporated into this Proposal through reference.

The Branscome DB Team Organization Chart (Attached) illustrates the functional relationships, our “chain” of command and notes Key Personnel Team members. Solid lines identify the reporting relationships of our team members in managing, designing and constructing the project, and illustrate clear reporting lines from Design Build Project Management to the design and construction team. Dashed lines represent indirect reporting and obligations to Owner and/or Corporate Management. The chart also shows that a clear separation exists between Quality Assurance and Construction Quality Control inspection and field/laboratory testing.



## 4.2.2 Proposal Schedule

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Floor
PC-0500	NOTICE OF INTENT	0	11/12/13*		0
PC-0510	INITIAL DESIGN/PROJECT DOCUMENTS	40	11/12/13	01/08/14	0
PC-0520	CONTRACT EXECUTION	1	01/08/14*	01/08/14	2
PC-1000	NOTICE TO PROCEED	0	01/09/14		0
PC-1010	PREPARE FOR INITIAL DESIGN KICKOFF MEETING	10	01/09/14	01/22/14	8
PC-1020	KICKOFF MEETING	1	01/23/14	01/23/14	8
PC-1120	THMACO COMPLETE	0	08/05/14		0
PC-1070	EAST BOUND I-64 COMPLETE	0	08/31/14		51
PC-1090	WEST BOUND I-64 COMPLETE	0	11/11/14		0
PC-1080	PROJECT COMPLETE	0	11/19/14		0
<b>DESIGN</b>					
<b>INITIAL DESIGN PACKAGE-THMACO</b>					
D-1000	PREPARE SUBMITT INITIAL DESIGN DOCUMENTS	11	01/09/14	01/23/14	0
D-1010	VDOT REVIEW INITIAL DESIGN	21	01/24/14	02/13/14	0
D-1020	INITIAL DESIGN REVIEW MEETING	3	02/14/14	02/18/14	0
D-1030	INCORPORATE DESIGN COMMENTS	1	02/19/14	02/19/14	0
D-1040	DEVELOPE PRE-FINAL DESIGN DOCUMENTS	3	02/20/14	02/24/14	0
D-1050	SUBMIT PRE-FINAL DESIGN DOCUMENTS	0	02/25/14		0
D-1060	VDOT REVIEW PRE-FINAL DESIGN DOCUMENTS	21	02/25/14	03/17/14	0
D-1070	PRE-FINAL DESIGN REVIEW MEETING	3	03/18/14	03/20/14	0
D-1080	INCORPORATE DESIGN COMMENTS	5	03/21/14	03/27/14	0
D-1090	PREPARE FINAL DESIGN DOCUMENTS	2	03/28/14	03/31/14	0
D-1100	SUBMIT FINAL DESIGN DOCUMENTS	0	04/01/14		0
D-1110	VDOT REVIEW FINAL DESIGN DOCUMENTS	14	04/01/14	04/14/14	0
D-1120	FINAL DESIGN REVIEW MEETING	1	04/15/14	04/15/14	0
D-1130	INCORPORATE FINAL DESIGN COMMENTS	2	04/16/14	04/17/14	0
D-1140	SUBMIT FINAL SEALED DESIGN DOCUMENTS	1	04/18/14	04/18/14	0
D-1150	NTP FOR CONSTRUCTION	0		04/18/14	0
<b>REMAINDER OF THE DESIGN</b>					
D-2000	PREPARE REMAINING DESIGN DOCUMENTS	19	01/09/14	02/04/14	0
D-2010	VDOT REVIEW INITIAL DESIGN	21	02/05/14	02/26/14	0
D-2020	INITIAL DESIGN REVIEW MEETING	2	02/26/14	02/27/14	0
D-2030	INCORPORATE DESIGN COMMENTS	5	02/28/14	03/06/14	0
D-2040	DEVELOPE PRE-FINAL DESIGN DOCUMENTS	12	03/07/14	03/24/14	0
D-2050	VDOT REVIEW PRE-FINAL DESIGN DOCUMENTS	20	03/25/14	04/13/14	0
D-2070	PRE-FINAL DESIGN REVIEW MEETING	3	04/14/14	04/15/14	0
D-2080	INCORPORATE DESIGN COMMENTS	4	04/17/14	04/22/14	0
D-2090	PREPARE FINAL DESIGN DOCUMENTS	5	04/23/14	04/29/14	0
D-2100	SUBMIT FINAL DESIGN DOCUMENTS	0	04/30/14		0
D-2110	VDOT REVIEW FINAL DESIGN DOCUMENTS	21	04/30/14	05/20/14	0
D-2120	FINAL DESIGN REVIEW MEETING	2	05/21/14	05/22/14	0
D-2130	INCORPORATE FINAL DESIGN COMMENTS	4	05/23/14	05/29/14	0
D-2140	SUBMIT FINAL SEALED DESIGN DOCUMENTS	1	05/30/14	05/30/14	0



◆ NOTICE OF INTENT  
 ◆ CONTRACT EXECUTION  
 ◆ NOTICE TO PROCEED  
 ◆ PREPARE FOR INITIAL DESIGN KICKOFF MEETING  
 ◆ KICKOFF MEETING  
 ◆ THMACO COMPLETE  
 ◆ EAST BOUND I-64 COMPLETE  
 ◆ WEST BOUND I-64 COMPLETE  
 ◆ PROJECT COMPLETE

◆ PREPARE SUBMITT INITIAL DESIGN DOCUMENTS  
 ◆ VDOT REVIEW INITIAL DESIGN  
 ◆ INITIAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE DESIGN COMMENTS  
 ◆ DEVELOPE PRE-FINAL DESIGN DOCUMENTS  
 ◆ SUBMIT PRE-FINAL DESIGN DOCUMENTS  
 ◆ VDOT REVIEW PRE-FINAL DESIGN DOCUMENTS  
 ◆ PRE-FINAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE DESIGN COMMENTS  
 ◆ PREPARE FINAL DESIGN DOCUMENTS  
 ◆ SUBMIT FINAL DESIGN DOCUMENTS  
 ◆ VDOT REVIEW FINAL DESIGN DOCUMENTS  
 ◆ FINAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE FINAL DESIGN COMMENTS  
 ◆ SUBMIT FINAL SEALED DESIGN DOCUMENTS  
 ◆ NTP FOR CONSTRUCTION

◆ PREPARE REMAINING DESIGN DOCUMENTS  
 ◆ VDOT REVIEW INITIAL DESIGN  
 ◆ INITIAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE DESIGN COMMENTS  
 ◆ DEVELOPE PRE-FINAL DESIGN DOCUMENTS  
 ◆ VDOT REVIEW PRE-FINAL DESIGN DOCUMENTS  
 ◆ PRE-FINAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE DESIGN COMMENTS  
 ◆ PREPARE FINAL DESIGN DOCUMENTS  
 ◆ SUBMIT FINAL DESIGN DOCUMENTS  
 ◆ VDOT REVIEW FINAL DESIGN DOCUMENTS  
 ◆ FINAL DESIGN REVIEW MEETING  
 ◆ INCORPORATE FINAL DESIGN COMMENTS  
 ◆ SUBMIT FINAL SEALED DESIGN DOCUMENTS

Date	Revision	Checked/Approved

CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Floor
D-2150	NTP FOR CONSTRUCTION	0	05/30/14	05/30/14	0

**SUBMITTALS**

0003	SUBMIT MANAGEMENT PLAN (CPM)	10	01/26/14	02/05/14	41
0004	SUBMIT E&S PLAN	10	01/26/14	02/05/14	41
0005	SUBMIT GUARD RAIL	10	01/26/14	02/05/14	172
0008	SUBMIT THIMACO MATERIALS	10	01/26/14	02/05/14	47
0009	SUBMIT ASPHALT MIXES	10	01/26/14	02/05/14	60
0010	SUBMIT CONCRETE MIXES	10	01/26/14	02/05/14	31
0015	APPROVE MANAGEMENT PLAN (CPM)	30	02/07/14	03/06/14	59
0016	APPROVE E&S PLAN	30	02/07/14	03/06/14	59
0020	APPROVE THIMACO MATERIALS	30	02/07/14	03/06/14	67
0021	APPROVE ASPHALT MIXES	30	02/07/14	03/06/14	84
0022	APPROVE CONCRETE MIXES	30	02/07/14	03/06/14	45
0026	APPROVE GUARDRAIL	30	02/07/14	03/06/14	244

**MOBILIZATION**

MB-1000	START MOBILIZATION	0	04/01/14	04/01/14	4
MB-1010	MOBILIZE EQUIPMENT	10	04/01/14	04/14/14	4
MB-1020	INSTALL TEMPORARY SAFETY SIGNAGE	4	04/01/14	04/05/14	10
MB-1030	MOBILIZATION COMPLETE	0	04/14/14	04/14/14	4

**INTERSTATE 64**

**EAST BOUND 64 SEGMENT 1**

EB-1000	BEGIN SEGMENT	0	04/21/14	04/21/14	0
EB-1020	STRIPING ERADICATION	1	04/21/14	04/21/14	0
EB-1030	REMOVE EXISTING MARKERS	1	04/22/14	04/22/14	0
EB-1050	DEMO CURBS/CONCRETE DITCHLINES	1	04/23/14	04/23/14	7
EB-1110	CONCRETE PATCHING	2	04/22/14	04/24/14	0
EB-1180	FLEXIBLE PAVEMENT PLANNING	2	04/23/14	04/24/14	3
EB-1160	CLEAN & RESEAL JOINTS	3	04/27/14	04/30/14	0
EB-1170	CRACK SEALING	3	04/27/14	04/30/14	0
EB-1190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	2	05/01/14	05/04/14	0
EB-1010	RIGID PAVEMENT PLANNING	3	05/05/14	05/08/14	1
EB-1100	THIMACO INSTALLATION	2	05/11/14	05/12/14	3
EB-1060	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	06/01/14	06/08/14	0
EB-1040	REMOVE/ADJUST GUARDRAIL	2	06/09/14	06/10/14	94
EB-1090	TEMPORARY PAVEMENT MARKINGS	1	06/09/14	06/09/14	0
EB-1120	SMA 12.5 ASPHALT PAVEMENT	2	06/10/14	06/11/14	0
EB-1060	REPLACE CURBS/CONCRETE DITCHLINES	1	06/12/14	06/12/14	92
EB-1150	INSTALL RUMBLE STRIPS	1	06/12/14	06/12/14	91
EB-1070	RESET GUARDRAIL	1	06/15/14	06/15/14	92
EB-1130	PAVEMENT LINE MARKINGS	1	06/15/14	06/15/14	91
EB-1140	INSTALL RECESSED MARKERS	1	06/17/14	06/17/14	91
EB-1210	SEGMENT COMPLETE	0	06/17/14	06/17/14	91

**EAST BOUND 64 SEGMENT 3**

EB-3000	BEGIN SEGMENT	0	04/23/14	04/23/14	1
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CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
EB-3010	STRIPING ERADICATION	1	04/23/14	04/23/14	1
EB-3020	REMOVE EXISTING MARKERS	1	04/24/14	04/24/14	1
EB-3030	DEMO CURBS/CONCRETE DITCHLINES	1	04/27/14	04/27/14	8
EB-3040	CONCRETE PATCHING	2	04/27/14	04/28/14	1
EB-3190	FLEXIBLE PAVEMENT PLANING	2	04/27/14	04/28/14	3
EB-3050	CLEAN & RESEAL JOINTS	2	04/30/14	05/01/14	1
EB-3060	CRACK SEALING	2	04/30/14	05/01/14	1
EB-3200	ASPHALT CONCRETE SHOULDERS-SMA 12.5	3	05/05/14	05/08/14	0
EB-3070	RIGID PAVEMENT PLANING	2	05/11/14	05/12/14	1
EB-3080	THMACO INSTALLATION	2	05/14/14	05/15/14	3
EB-3090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	06/12/14	06/16/14	0
EB-3100	REMOVE/ADJUST GUARDRAIL	2	06/22/14	06/23/14	86
EB-3110	TEMPORARY PAVEMENT MARKINGS	1	06/22/14	06/22/14	0
EB-3120	SMA 12.5 ASPHALT PAVEMENT	2	06/23/14	06/25/14	0
EB-3130	REPLACE CURBS/CONCRETE DITCHLINES	1	06/26/14	06/26/14	84
EB-3140	INSTALL RUMBLE STRIPS	1	06/26/14	06/26/14	83
EB-3150	RESET GUARDRAIL	1	06/29/14	06/29/14	84
EB-3160	PAVEMENT LINE MARKINGS	1	06/29/14	06/29/14	83
EB-3170	INSTALL RECESSED MARKERS	1	06/30/14	06/30/14	83
EB-3180	SEGMENT COMPLETE	0		06/30/14	83
<b>EAST BOUND 64 SEGMENT 4</b>					
EB-4000	BEGIN SEGMENT	0	04/27/14		1
EB-4010	STRIPING ERADICATION	1	04/27/14	04/27/14	1
EB-4020	REMOVE EXISTING MARKERS	1	04/28/14	04/28/14	1
EB-4030	DEMO CURBS/CONCRETE DITCHLINES	1	04/30/14	04/30/14	8
EB-4040	CONCRETE PATCHING	2	04/30/14	05/01/14	4
EB-4190	FLEXIBLE PAVEMENT PLANING	2	04/30/14	05/01/14	4
EB-4050	CLEAN & RESEAL JOINTS	3	05/04/14	05/07/14	4
EB-4060	CRACK SEALING	3	05/04/14	05/07/14	4
EB-4200	ASPHALT CONCRETE SHOULDERS-SMA 12.5	3	05/11/14	05/14/14	0
EB-4070	RIGID PAVEMENT PLANING	2	05/15/14	05/18/14	0
EB-4080	THMACO INSTALLATION	2	05/19/14	05/20/14	2
EB-4090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	06/26/14	07/02/14	0
EB-4100	REMOVE/ADJUST GUARDRAIL	2	07/06/14	07/08/14	78
EB-4110	TEMPORARY PAVEMENT MARKINGS	1	07/06/14	07/06/14	0
EB-4120	SMA 12.5 ASPHALT PAVEMENT	2	07/06/14	07/09/14	0
EB-4130	REPLACE CURBS/CONCRETE DITCHLINES	1	07/10/14	07/10/14	76
EB-4140	INSTALL RUMBLE STRIPS	1	07/10/14	07/10/14	75
EB-4150	RESET GUARDRAIL	1	07/13/14	07/13/14	76
EB-4160	PAVEMENT LINE MARKINGS	1	07/13/14	07/13/14	75
EB-4170	INSTALL RECESSED MARKERS	1	07/14/14	07/14/14	75
EB-4180	SEGMENT COMPLETE	0		07/14/14	75
<b>EAST BOUND 64 SEGMENT 5</b>					
EB-5000	BEGIN SEGMENT	0	04/30/14		1
EB-5010	STRIPING ERADICATION	1	04/30/14	04/30/14	1
EB-5020	REMOVE EXISTING MARKERS	1	05/01/14	05/01/14	1
EB-5030	DEMO CURBS/CONCRETE DITCHLINES	1	05/04/14	05/04/14	8

2013  
NOV 11 18 25 2 8 16 23 30 6 13 20 27 3 10 17 24 3 10 17 24 31 7 14 21 28 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24

2014  
JAN 1 8 15 22 29 6 13 20 27 3 10 17 24 31 7 14 21 28 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24

2015  
JAN 1 8 15 22 29 6 13 20 27 3 10 17 24 31 7 14 21 28 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24

File Name: DB66  
Filter: All  
Layout: SCHEDULE DEVELOPMENT  
Sheet 3 of 13

**DB66 DESIGN BUILD**  
**Branscome Inc.**

Start Date: 11/12/13  
Finish Date: 11/19/14  
Data Date: 11/12/13  
Run Date: 11/01/13 14:04

Legend:  
▶ Early Bar  
▶ Progress Bar  
▶ Critical Activity

Activity Legend:  
▶ BEGIN SEGMENT  
▶ STRIPING ERADICATION  
▶ REMOVE EXISTING MARKERS  
▶ DEMO CURBS/CONCRETE DITCHLINES  
▶ CONCRETE PATCHING  
▶ FLEXIBLE PAVEMENT PLANING  
▶ CLEAN & RESEAL JOINTS  
▶ CRACK SEALING  
▶ ASPHALT CONCRETE SHOULDERS-SMA 12.5  
▶ RIGID PAVEMENT PLANING  
▶ THMACO INSTALLATION  
▶ INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT  
▶ REMOVE/ADJUST GUARDRAIL  
▶ TEMPORARY PAVEMENT MARKINGS  
▶ SMA 12.5 ASPHALT PAVEMENT  
▶ REPLACE CURBS/CONCRETE DITCHLINES  
▶ INSTALL RUMBLE STRIPS  
▶ RESET GUARDRAIL  
▶ PAVEMENT LINE MARKINGS  
▶ INSTALL RECESSED MARKERS  
▶ SEGMENT COMPLETE

CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
EB-5040	CONCRETE PATCHING	1	05/04/14	05/04/14	6
EB-5190	FLEXIBLE PAVEMENT PLANNING	1	05/04/14	05/04/14	7
EB-5050	CLEAN & RESEAL JOINTS	2	05/05/14	05/07/14	6
EB-5060	CRACK SEALING	2	05/05/14	05/07/14	6
EB-5200	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	05/15/14	05/15/14	1
EB-5070	RIGID PAVEMENT PLANNING	1	05/19/14	05/19/14	0
EB-5080	THIMACO INSTALLATION	1	05/21/14	05/21/14	2
EB-5090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	07/10/14	07/10/14	0
EB-5100	REMOVE/ADJUST GUARDRAIL	2	07/13/14	07/14/14	74
EB-5110	TEMPORARY PAVEMENT MARKINGS	1	07/13/14	07/13/14	0
EB-5120	SMA 12.5 ASPHALT PAVEMENT	1	07/14/14	07/14/14	0
EB-5130	REPLACE CURBS/CONCRETE DITCHLINES	1	07/16/14	07/16/14	73
EB-5140	INSTALL RUMBLE STRIPS	1	07/16/14	07/16/14	72
EB-5150	RESET GUARDRAIL	1	07/17/14	07/17/14	73
EB-5160	PAVEMENT LINE MARKINGS	1	07/17/14	07/17/14	72
EB-5170	INSTALL RECESSED MARKERS	1	07/20/14	07/20/14	72
EB-5180	SEGMENT COMPLETE	0		07/20/14	72
<b>EAST BOUND 64 SEGMENT 6</b>					
EB-6000	BEGIN SEGMENT	0	05/04/14		1
EB-6010	STRIPING ERADICATION	1	05/04/14	05/04/14	1
EB-6020	REMOVE EXISTING MARKERS	1	05/05/14	05/05/14	1
EB-6030	DEMO CURBS/CONCRETE DITCHLINES	1	05/07/14	05/07/14	7
EB-6040	CONCRETE PATCHING	1	05/07/14	05/07/14	5
EB-6190	FLEXIBLE PAVING PLANNING	1	05/07/14	05/07/14	6
EB-6050	CLEAN & RESEAL JOINTS	2	05/08/14	05/11/14	5
EB-6060	CRACK SEALING	2	05/08/14	05/11/14	5
EB-6200	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	05/16/14	05/16/14	1
EB-6070	RIGID PAVEMENT PLANNING	1	05/20/14	05/20/14	0
EB-6080	THIMACO INSTALLATION	1	05/22/14	05/22/14	2
EB-6090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	07/16/14	07/16/14	0
EB-6100	REMOVE/ADJUST GUARDRAIL	2	07/17/14	07/20/14	71
EB-6110	TEMPORARY PAVEMENT MARKINGS	1	07/17/14	07/17/14	0
EB-6120	SMA 12.5 ASPHALT PAVEMENT	1	07/20/14	07/20/14	0
EB-6130	REPLACE CURBS/CONCRETE DITCHLINES	1	07/21/14	07/21/14	70
EB-6140	INSTALL RUMBLE STRIPS	1	07/21/14	07/21/14	69
EB-6150	RESET GUARDRAIL	1	07/22/14	07/22/14	70
EB-6160	PAVEMENT LINE MARKINGS	1	07/22/14	07/22/14	69
EB-6170	INSTALL RECESSED MARKERS	1	07/23/14	07/23/14	69
EB-6180	SEGMENT COMPLETE	0		07/23/14	69
<b>EAST BOUND 64 SEGMENT 7</b>					
EB-7000	BEGIN SEGMENT	0	05/07/14		1
EB-7010	STRIPING ERADICATION	1	05/07/14	05/07/14	1
EB-7020	REMOVE EXISTING MARKERS	1	05/08/14	05/08/14	1
EB-7030	DEMO CURBS/CONCRETE DITCHLINES	1	05/11/14	05/11/14	6
EB-7040	CONCRETE PATCHING	1	05/11/14	05/11/14	4
EB-7190	FLEXIBLE PAVING PLANNING	1	05/11/14	05/11/14	5
EB-7050	CLEAN & RESEAL JOINTS	2	05/12/14	05/14/14	4

- ◆ BEGIN SEGMENT
- ▲ STRIPING ERADICATION
- ▲ REMOVE EXISTING MARKERS
- ▲ DEMO CURBS/CONCRETE DITCHLINES
- ▲ CONCRETE PATCHING
- ▲ FLEXIBLE PAVING PLANNING
- ▲ CLEAN & RESEAL JOINTS
- ▲ CRACK SEALING
- ▲ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▲ RIGID PAVEMENT PLANNING
- ▲ THIMACO INSTALLATION
- ▲ INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- ▲ REMOVE/ADJUST GUARDRAIL
- ▲ TEMPORARY PAVEMENT MARKINGS
- ▲ SMA 12.5 ASPHALT PAVEMENT
- ▲ REPLACE CURBS/CONCRETE DITCHLINES
- ▲ INSTALL RUMBLE STRIPS
- ▲ RESET GUARDRAIL
- ▲ PAVEMENT LINE MARKINGS
- ▲ INSTALL RECESSED MARKERS
- ◆ SEGMENT COMPLETE

- ◆ BEGIN SEGMENT
- ▲ STRIPING ERADICATION
- ▲ REMOVE EXISTING MARKERS
- ▲ DEMO CURBS/CONCRETE DITCHLINES
- ▲ CONCRETE PATCHING
- ▲ FLEXIBLE PAVING PLANNING
- ▲ CLEAN & RESEAL JOINTS
- ▲ CRACK SEALING
- ▲ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▲ RIGID PAVEMENT PLANNING
- ▲ THIMACO INSTALLATION
- ▲ INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- ▲ REMOVE/ADJUST GUARDRAIL
- ▲ TEMPORARY PAVEMENT MARKINGS
- ▲ SMA 12.5 ASPHALT PAVEMENT
- ▲ REPLACE CURBS/CONCRETE DITCHLINES
- ▲ INSTALL RUMBLE STRIPS
- ▲ RESET GUARDRAIL
- ▲ PAVEMENT LINE MARKINGS
- ▲ INSTALL RECESSED MARKERS
- ◆ SEGMENT COMPLETE

- ◆ BEGIN SEGMENT
- ▲ STRIPING ERADICATION
- ▲ REMOVE EXISTING MARKERS
- ▲ DEMO CURBS/CONCRETE DITCHLINES
- ▲ CONCRETE PATCHING
- ▲ FLEXIBLE PAVING PLANNING
- ▲ CLEAN & RESEAL JOINTS

File Name: DB66  
Filter: All  
Layout: SCHEDULE DEVELOPMENT  
Sheet 4 of 13

Date: \_\_\_\_\_  
Revision: \_\_\_\_\_  
Checked/Approved: \_\_\_\_\_

**DB66 DESIGN BUILD**  
**Branscome Inc.**

Start Date: 11/12/13  
Finish Date: 11/19/14  
Data Date: 11/12/13  
Run Date: 11/01/13 14:04

Early Bar  
Progress Bar  
Critical Activity

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# CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
EB-9080	THMACO INSTALLATION	2	06/07/14	06/02/14	2
EB-9090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	08/03/14	08/03/14	0
EB-9100	REMOVE/ADJUST GUARDRAIL	2	08/05/14	08/06/14	60
EB-9120	SMA 12.5 ASPHALT PAVEMENT	1	08/05/14	08/05/14	0
EB-9130	REPLACE CURBS/CONCRETE DITCHLINES	1	08/06/14	08/06/14	60
EB-9140	INSTALL RUMBLE STRIPS	1	08/06/14	08/06/14	59
EB-9150	RESET GUARDRAIL	1	08/07/14	08/07/14	60
EB-9160	PAVEMENT LINE MARKINGS	1	08/07/14	08/07/14	59
EB-9170	INSTALL RECESSED MARKERS	1	08/10/14	08/10/14	59
EB-9180	SEGMENT COMPLETE	0		08/10/14	59
<b>EAST BOUND 64 SEGMENT 10</b>					
EB-10000	BEGIN SEGMENT	0	05/18/14		1
EB-10010	STRIPING ERADICATION	1	05/18/14	05/18/14	1
EB-10020	REMOVE EXISTING MARKERS	1	05/19/14	05/19/14	1
EB-10030	DEMO CURBS/CONCRETE DITCHLINES	1	05/20/14	05/20/14	6
EB-10040	CONCRETE PATCHING	1	05/20/14	05/20/14	5
EB-10110	FLEXIBLE PAVING PLANNING	1	05/20/14	05/20/14	5
EB-10050	CLEAN & RESEAL JOINTS	1	05/21/14	05/21/14	5
EB-10060	CRACK SEALING	1	05/21/14	05/21/14	5
EB-10190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	05/22/14	05/22/14	4
EB-10070	RIGID PAVEMENT PLANNING	2	06/01/14	06/02/14	0
EB-10080	THMACO INSTALLATION	1	06/04/14	06/04/14	2
EB-10090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	08/06/14	08/06/14	0
EB-10100	REMOVE/ADJUST GUARDRAIL	2	08/07/14	08/10/14	58
EB-10120	SMA 12.5 ASPHALT PAVEMENT	1	08/07/14	08/07/14	0
EB-10130	REPLACE CURBS/CONCRETE DITCHLINES	1	08/10/14	08/10/14	58
EB-10140	INSTALL RUMBLE STRIPS	1	08/10/14	08/10/14	57
EB-10150	RESET GUARDRAIL	1	08/11/14	08/11/14	58
EB-10160	PAVEMENT LINE MARKINGS	1	08/11/14	08/11/14	57
EB-10170	INSTALL RECESSED MARKERS	1	08/13/14	08/13/14	57
EB-10180	SEGMENT COMPLETE	0		08/13/14	57
<b>EAST BOUND 64 SEGMENT 11</b>					
EB-11000	BEGIN SEGMENT	0	05/20/14		1
EB-11010	STRIPING ERADICATION	1	05/20/14	05/20/14	1
EB-11020	REMOVE EXISTING MARKERS	1	05/21/14	05/21/14	1
EB-11030	DEMO CURBS/CONCRETE DITCHLINES	1	05/22/14	05/22/14	6
EB-11040	CONCRETE PATCHING	2	05/22/14	05/25/14	1
EB-11110	FLEXIBLE PAVING PLANNING	2	05/22/14	05/25/14	3
EB-11050	CLEAN & RESEAL JOINTS	2	05/27/14	05/28/14	1
EB-11060	CRACK SEALING	2	05/27/14	05/28/14	3
EB-11190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	2	05/29/14	06/01/14	1
EB-11070	RIGID PAVEMENT PLANNING	3	06/04/14	06/03/14	0
EB-11080	THMACO INSTALLATION	5	06/09/14	06/15/14	0
EB-11090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	08/10/14	08/17/14	0
EB-11100	REMOVE/ADJUST GUARDRAIL	2	08/18/14	08/19/14	52
EB-11120	SMA 12.5 ASPHALT PAVEMENT	3	08/18/14	08/20/14	0
EB-11130	REPLACE CURBS/CONCRETE DITCHLINES	1	08/21/14	08/21/14	50

2013  
 NOV 11 18 25 2 9 10 17 24 31 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 DEC 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 JAN 1 8 15 22 29 6 13 20 27 3 10 17 24 31 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 FEB 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 MAR 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 APR 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 MAY 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 JUN 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 JUL 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 AUG 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
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 NOV 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24  
 DEC 5 12 19 26 2 9 16 23 30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24

- ▶ THMACO INSTALLATION
- ▶ INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- ▶ REMOVE/ADJUST GUARDRAIL
- ▶ SMA 12.5 ASPHALT PAVEMENT
- ▶ REPLACE CURBS/CONCRETE DITCHLINES
- ▶ INSTALL RUMBLE STRIPS
- ▶ RESET GUARDRAIL
- ▶ PAVEMENT LINE MARKINGS
- ▶ INSTALL RECESSED MARKERS
- ▶ SEGMENT COMPLETE

- ▶ BEGIN SEGMENT
- ▶ STRIPING ERADICATION
- ▶ REMOVE EXISTING MARKERS
- ▶ DEMO CURBS/CONCRETE DITCHLINES
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- ▶ CLEAN & RESEAL JOINTS
- ▶ CRACK SEALING
- ▶ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▶ RIGID PAVEMENT PLANNING
- ▶ THMACO INSTALLATION

- ▶ INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
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- ▶ CRACK SEALING
- ▶ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▶ RIGID PAVEMENT PLANNING
- ▶ THMACO INSTALLATION

Date	Revision	Checked/Approved

DB66 DESIGN BUILD  
 Branscome Inc.



Start Date: 11/12/13  
 Finish Date: 11/19/14  
 Data Date: 11/12/13  
 Run Date: 11/01/13 14:04

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# CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
EB-13170	INSTALL RECESSED MARKERS	1	08/31/14	08/31/14	45
EB-13180	SEGMENT COMPLETE	0		08/31/14	45
<b>WEST BOUND 64 SEBMENT 14</b>					
WB-14000	BEGIN SEGMENT	0	05/29/14		5
WB-14030	STRIPING ERADICATION	1	05/29/14	05/29/14	5
WB-14040	REMOVE EXISTING MARKERS	1	06/01/14	06/01/14	4
WB-14050	DEMO CURBS/CONCRETE DITCHLINES	1	06/02/14	06/02/14	8
WB-14060	CONCRETE PATCHING	1	06/02/14	06/02/14	7
WB-14130	FLEXIBLE PAVING PLANNING	1	06/02/14	06/02/14	7
WB-14070	CLEAN & RESEAL JOINTS	1	06/04/14	06/04/14	7
WB-14080	CRACK SEALING	1	06/04/14	06/04/14	7
WB-14210	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	06/05/14	06/05/14	6
WB-14090	RIGID PAVEMENT PLANNING	2	06/12/14	06/15/14	2
WB-14100	THMACO INSTALLATION	2	06/22/14	06/23/14	0
WB-14010	MODIFY MEDIAN INLET THROATS	1	06/30/14	06/30/14	77
WB-14020	RETROFIT CONCRETE BARRIER WALLS	5	07/01/14	07/09/14	77
WB-14110	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	2	08/27/14	08/28/14	0
WB-14120	REMOVE/ADJUST GUARDRAIL	2	08/31/14	09/02/14	43
WB-14140	SMA 12.5 ASPHALT PAVEMENT	1	08/31/14	08/31/14	0
WB-14150	REPLACE CURBS/CONCRETE DITCHLINES	1	09/02/14	09/02/14	43
WB-14160	INSTALL RUMBLE STRIPS	1	09/02/14	09/02/14	42
WB-14170	RESET GUARDRAIL	1	09/03/14	09/03/14	43
WB-14180	PAVEMENT LINE MARKINGS	1	09/03/14	05/03/14	42
WB-14190	INSTALL RECESSED MARKERS	1	09/04/14	09/04/14	42
WB-14200	SEGMENT COMPLETE	0		09/04/14	42
<b>WEST BOUND 64 SEGMENT 15</b>					
WB-15000	BEGIN SEGMENT	0	06/02/14		6
WB-15030	STRIPING ERADICATION	1	06/02/14	06/02/14	4
WB-15040	REMOVE EXISTING MARKERS	1	06/04/14	06/04/14	4
WB-15050	DEMO CURBS/CONCRETE DITCHLINES	1	06/05/14	06/05/14	8
WB-15060	CONCRETE PATCHING	2	06/05/14	06/08/14	4
WB-15130	FLEXIBLE PAVING PLANNING	2	06/05/14	06/08/14	5
WB-15070	CLEAN & RESEAL JOINTS	3	06/09/14	06/11/14	4
WB-15080	CRACK SEALING	3	06/09/14	06/11/14	4
WB-15210	ASPHALT CONCRETE SHOULDERS-SMA 12.5	2	06/09/14	06/10/14	5
WB-15090	RIGID PAVEMENT PLANNING	3	06/17/14	06/19/14	2
WB-15100	THMACO INSTALLATION	5	06/25/14	07/01/14	0
WB-15010	MODIFY MEDIAN INLET THROATS	1	07/10/14	07/10/14	77
WB-15020	RETROFIT CONCRETE BARRIER WALLS	6	07/13/14	07/21/14	77
WB-15110	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	09/02/14	09/08/14	0
WB-15120	REMOVE/ADJUST GUARDRAIL	2	09/09/14	09/10/14	37
WB-15140	SMA 12.5 ASPHALT PAVEMENT	3	09/09/14	09/14/14	0
WB-15150	REPLACE CURBS/CONCRETE DITCHLINES	1	09/16/14	06/16/14	35
WB-15160	INSTALL RUMBLE STRIPS	1	09/16/14	09/16/14	34
WB-15170	RESET GUARDRAIL	1	09/17/14	09/17/14	35
WB-15180	PAVEMENT LINE MARKINGS	1	09/17/14	09/17/14	34
WB-15190	INSTALL RECESSED MARKERS	1	09/18/14	09/18/14	34

- ◆ BEGIN SEGMENT
- ▲ STRIPING ERADICATION
- ▲ REMOVE EXISTING MARKERS
- ▲ DEMO CURBS/CONCRETE DITCHLINES
- ▲ CONCRETE PATCHING
- ▲ FLEXIBLE PAVING PLANNING
- ▲ CLEAN & RESEAL JOINTS
- ▲ CRACK SEALING
- ▲ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▲ RIGID PAVEMENT PLANNING
- ▲ THMACO INSTALLATION
- ▲ MODIFY MEDIAN INLET THROATS
- ▲ RETROFIT CONCRETE BARRIER WALLS
- ▲ REMOVE/ADJUST GUARDRAIL
- ▲ SMA 12.5 ASPHALT PAVEMENT
- ▲ REPLACE CURBS/CONCRETE DITCHLINES
- ▲ INSTALL RUMBLE STRIPS
- ▲ RESET GUARDRAIL
- ▲ PAVEMENT LINE MARKINGS
- ▲ INSTALL RECESSED MARKERS
- ◆ SEGMENT COMPLETE

- ◆ BEGIN SEGMENT
- ▲ STRIPING ERADICATION
- ▲ REMOVE EXISTING MARKERS
- ▲ DEMO CURBS/CONCRETE DITCHLINES
- ▲ CONCRETE PATCHING
- ▲ FLEXIBLE PAVING PLANNING
- ▲ CLEAN & RESEAL JOINTS
- ▲ CRACK SEALING
- ▲ ASPHALT CONCRETE SHOULDERS-SMA 12.5
- ▲ RIGID PAVEMENT PLANNING
- ▲ THMACO INSTALLATION
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- ▲ REPLACE CURBS/CONCRETE DITCHLINES
- ▲ INSTALL RUMBLE STRIPS
- ▲ RESET GUARDRAIL
- ▲ PAVEMENT LINE MARKINGS
- ▲ INSTALL RECESSED MARKERS
- ◆ SEGMENT COMPLETE

Start Date: 11/12/13  
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Date	Revision	Checked/Approved



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
WB-18040	REMOVE EXISTING MARKERS	1	06/12/14	06/12/14	6
WB-18050	DEMO CURBS/CONCRETE DITCHLINES	1	06/15/14	06/15/14	11
WB-18060	CONCRETE PATCHING	1	06/15/14	06/15/14	10
WB-18100	FLEXIBLE PAVING PLANNING	1	06/15/14	06/15/14	10
WB-18070	CLEAN & RESEAL JOINTS	1	06/17/14	06/17/14	10
WB-18080	CRACK SEALING	1	06/17/14	06/17/14	10
WB-18210	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	06/17/14	06/17/14	10
WB-18090	RIGID PAVEMENT PLANNING	2	06/29/14	06/30/14	4
WB-18100	THMACO INSTALLATION	2	07/09/14	07/10/14	0
WB-18110	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	09/22/14	09/22/14	0
WB-18120	REMOVE/ADJUST GUARDRAIL	2	09/23/14	09/25/14	29
WB-18140	SMA 12.5 ASPHALT PAVEMENT	1	09/23/14	09/23/14	0
WB-18150	REPLACE CURBS/CONCRETE DITCHLINES	1	09/25/14	09/25/14	29
WB-18160	INSTALL RUMBLE STRIPS	1	09/25/14	09/25/14	28
WB-18170	RESET GUARDRAIL	1	09/28/14	09/28/14	29
WB-18180	PAVEMENT LINE MARKINGS	1	09/28/14	09/28/14	28
WB-18190	INSTALL RECESSED MARKERS	1	09/29/14	09/29/14	28
WB-18200	SEGMENT COMPLETE	0	09/29/14	09/29/14	28
<b>WEST BOUND 64 SEGMENT 19</b>					
WB-19000	BEGIN SEGMENT	0	06/15/14	06/15/14	6
WB-19010	STRIPING ERADICATION	1	06/15/14	06/15/14	6
WB-19020	REMOVE EXISTING MARKERS	1	06/17/14	06/17/14	6
WB-19030	DEMO CURBS/CONCRETE DITCHLINES	1	06/18/14	06/18/14	11
WB-19040	CONCRETE PATCHING	1	06/18/14	06/18/14	10
WB-19110	FLEXIBLE PAVING PLANNING	1	06/18/14	06/18/14	10
WB-19050	CLEAN & RESEAL JOINTS	1	06/19/14	06/19/14	10
WB-19060	CRACK SEALING	1	06/19/14	06/19/14	10
WB-19160	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	06/19/14	06/19/14	10
WB-19070	RIGID PAVEMENT PLANNING	2	07/01/14	07/02/14	4
WB-19080	THMACO INSTALLATION	2	07/13/14	07/14/14	0
WB-19090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	2	09/25/14	09/28/14	0
WB-19100	REMOVE/ADJUST GUARDRAIL	2	09/29/14	09/30/14	26
WB-19120	SMA 12.5 ASPHALT PAVEMENT	1	09/29/14	09/29/14	0
WB-19130	REPLACE CURBS/CONCRETE DITCHLINES	1	09/30/14	09/30/14	26
WB-19140	INSTALL RUMBLE STRIPS	1	09/30/14	09/30/14	25
WB-19150	RESET GUARDRAIL	1	10/01/14	10/01/14	26
WB-19160	PAVEMENT LINE MARKINGS	1	10/01/14	10/01/14	25
WB-19170	INSTALL RECESSED MARKERS	1	10/02/14	10/02/14	25
WB-19180	SEGMENT COMPLETE	0	10/02/14	10/02/14	25
<b>WEST BOUND 64 SEGMENT 20</b>					
WB-20000	BEGIN SEGMENT	0	06/18/14	06/18/14	6
WB-20010	STRIPING ERADICATION	1	06/18/14	06/18/14	6
WB-20020	REMOVE EXISTING MARKERS	1	06/19/14	06/19/14	6
WB-20030	DEMO CURBS/CONCRETE DITCHLINES	1	06/22/14	06/22/14	11
WB-20040	CONCRETE PATCHING	1	06/22/14	06/22/14	10
WB-20110	FLEXIBLE PAVING PLANNING	1	06/22/14	06/22/14	9
WB-20050	CLEAN & RESEAL JOINTS	1	06/23/14	06/23/14	10

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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
WB-20060	CRACK SEALING	1	06/23/14	06/23/14	10
WB-20190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	06/23/14	06/23/14	9
WB-20070	RIGID PAVEMENT PLANNING	1	07/06/14	07/06/14	4
WB-20080	THIMACO INSTALLATION	1	07/16/14	07/16/14	0
WB-20090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	09/30/14	09/30/14	0
WB-20100	REMOVE/ADJUST GUARDRAIL	2	10/01/14	10/02/14	24
WB-20120	SMA 12.5 ASPHALT PAVEMENT	1	10/01/14	10/01/14	0
WB-20130	REPLACE CURBS/CONCRETE DITCHLINES	1	10/02/14	10/02/14	24
WB-20140	INSTALL RUMBLE STRIPS	1	10/02/14	10/02/14	23
WB-20150	RESET GUARDRAIL	1	10/05/14	10/05/14	24
WB-20160	PAVEMENT LINE MARKINGS	1	10/05/14	10/05/14	23
WB-20170	INSTALL RECESSED MARKERS	1	10/06/14	10/06/14	23
WB-20180	SEGMENT COMPLETE	0		10/08/14	23
<b>WEST BOUND 64 SEGMENT 21</b>					
WB-21000	BEGIN SEGMENT	0	06/22/14		6
WB-21010	STRIPING ERADICATION	1	06/22/14	06/22/14	6
WB-21020	REMOVE EXISTING MARKERS	1	06/23/14	06/23/14	6
WB-21030	DEMO CURBS/CONCRETE DITCHLINES	1	06/25/14	06/25/14	10
WB-21040	CONCRETE PATCHING	1	06/25/14	06/25/14	9
WB-21110	FLEXIBLE PAVING PLANNING	1	06/25/14	06/25/14	8
WB-21050	CLEAN & RESEAL JOINTS	1	06/26/14	06/26/14	9
WB-21060	CRACK SEALING	1	06/26/14	06/26/14	9
WB-21190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	06/26/14	06/26/14	8
WB-21070	RIGID PAVEMENT PLANNING	1	07/06/14	07/06/14	4
WB-21080	THIMACO INSTALLATION	2	07/17/14	07/20/14	0
WB-21090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	1	10/02/14	10/02/14	0
WB-21100	REMOVE/ADJUST GUARDRAIL	2	10/05/14	10/05/14	22
WB-21120	SMA 12.5 ASPHALT PAVEMENT	1	10/05/14	10/05/14	0
WB-21130	REPLACE CURBS/CONCRETE DITCHLINES	1	10/06/14	10/06/14	22
WB-21140	INSTALL RUMBLE STRIPS	1	10/06/14	10/06/14	21
WB-21150	RESET GUARDRAIL	1	10/08/14	10/08/14	22
WB-21160	PAVEMENT LINE MARKINGS	1	10/08/14	10/08/14	21
WB-21170	INSTALL RECESSED MARKERS	1	10/09/14	10/09/14	21
WB-21180	SEGMENT COMPLETE	0		10/09/14	21
<b>WEST BOUND 64 SEGMENT 22</b>					
WB-22000	BEGIN SEGMENT	0	06/25/14		6
WB-22010	STRIPING ERADICATION	1	06/25/14	06/25/14	6
WB-22020	REMOVE EXISTING MARKERS	1	06/26/14	06/26/14	6
WB-22030	DEMO CURBS/CONCRETE DITCHLINES	1	06/29/14	06/29/14	9
WB-22040	CONCRETE PATCHING	2	06/29/14	06/30/14	6
WB-22110	FLEXIBLE PAVING PLANNING	2	06/29/14	06/30/14	6
WB-22050	CLEAN & RESEAL JOINTS	2	07/01/14	07/02/14	6
WB-22060	CRACK SEALING	2	07/01/14	07/02/14	6
WB-22190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	2	07/01/14	07/02/14	6
WB-22070	RIGID PAVEMENT PLANNING	3	07/09/14	07/13/14	4
WB-22080	THIMACO INSTALLATION	4	07/21/14	07/24/14	0
WB-22090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	4	10/06/14	10/12/14	0

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▶ Critical Activity

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- ASPHALT CONCRETE SHOULDERS-SMA 12.5
- RIGID PAVEMENT PLANNING
- THIMACO INSTALLATION
- ASPHALT CONCRETE SHOULDERS-SMA 12.5
- REMOVE/ADJUST GUARDRAIL
- SMA 12.5 ASPHALT PAVEMENT
- INSTALL RUMBLE STRIPS
- RESET GUARDRAIL
- PAVEMENT LINE MARKINGS
- INSTALL RECESSED MARKERS
- SEGMENT COMPLETE
- BEGIN SEGMENT
- STRIPING ERADICATION
- REMOVE EXISTING MARKERS
- DEMO CURBS/CONCRETE DITCHLINES
- CONCRETE PATCHING
- FLEXIBLE PAVING PLANNING
- CLEAN & RESEAL JOINTS
- CRACK SEALING
- ASPHALT CONCRETE SHOULDERS-SMA 12.5
- RIGID PAVEMENT PLANNING
- THIMACO INSTALLATION
- INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- REMOVE/ADJUST GUARDRAIL
- SMA 12.5 ASPHALT PAVEMENT
- REPLACE CURBS/CONCRETE DITCHLINES
- INSTALL RUMBLE STRIPS
- RESET GUARDRAIL
- PAVEMENT LINE MARKINGS
- INSTALL RECESSED MARKERS
- SEGMENT COMPLETE
- BEGIN SEGMENT
- STRIPING ERADICATION
- REMOVE EXISTING MARKERS
- DEMO CURBS/CONCRETE DITCHLINES
- CONCRETE PATCHING
- FLEXIBLE PAVING PLANNING
- CLEAN & RESEAL JOINTS
- CRACK SEALING
- ASPHALT CONCRETE SHOULDERS-SMA 12.5
- RIGID PAVEMENT PLANNING
- THIMACO INSTALLATION
- INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- REMOVE/ADJUST GUARDRAIL
- SMA 12.5 ASPHALT PAVEMENT
- REPLACE CURBS/CONCRETE DITCHLINES
- INSTALL RUMBLE STRIPS
- RESET GUARDRAIL
- PAVEMENT LINE MARKINGS
- INSTALL RECESSED MARKERS
- SEGMENT COMPLETE
- BEGIN SEGMENT
- STRIPING ERADICATION
- REMOVE EXISTING MARKERS
- DEMO CURBS/CONCRETE DITCHLINES
- CONCRETE PATCHING
- FLEXIBLE PAVING PLANNING
- CLEAN & RESEAL JOINTS
- CRACK SEALING
- ASPHALT CONCRETE SHOULDERS-SMA 12.5
- RIGID PAVEMENT PLANNING
- THIMACO INSTALLATION
- INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT
- REMOVE/ADJUST GUARDRAIL
- SMA 12.5 ASPHALT PAVEMENT
- REPLACE CURBS/CONCRETE DITCHLINES
- INSTALL RUMBLE STRIPS
- RESET GUARDRAIL
- PAVEMENT LINE MARKINGS
- INSTALL RECESSED MARKERS
- SEGMENT COMPLETE

CPM CONSTRUCTION SCHEDULE

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float
WB-22100	REMOVE/ADJUST GUARDRAIL	2	10/13/14	10/15/14	17
WB-22120	SMA 12.5 ASPHALT PAVEMENT	3	10/13/14	10/16/14	0
WB-22130	REPLACE CURBS/CONCRETE DITCHLINES	1	10/19/14	10/19/14	15
WB-22140	INSTALL RUMBLE STRIPS	1	10/19/14	10/19/14	14
WB-22150	RESET GUARDRAIL	1	10/20/14	10/20/14	15
WB-22160	PAVEMENT LINE MARKINGS	1	10/20/14	10/20/14	14
WB-22170	INSTALL RECESSED MARKERS	1	10/22/14	10/22/14	14
WB-22180	SEGMENT COMPLETE	0		10/22/14	14
<b>WEST BOUND 64 SEGMENT 23</b>					
WB-23000	BEGIN SEGMENT	0	06/29/14		7
WB-23010	STRIPING ERADICATION	1	06/29/14	06/29/14	7
WB-23020	REMOVE EXISTING MARKERS	1	06/30/14	06/30/14	7
WB-23030	DEMO CURBS/CONCRETE DITCHLINES	1	07/01/14	07/01/14	10
WB-23040	CONCRETE PATCHING	1	07/01/14	07/01/14	8
WB-23110	FLEXIBLE PAVING PLANNING	2	07/01/14	07/02/14	7
WB-23050	CLEAN & RESEAL JOINTS	1	07/02/14	07/02/14	9
WB-23060	CRACK SEALING	1	07/02/14	07/02/14	9
WB-23190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	2	07/06/14	07/06/14	7
WB-23070	RIGID PAVEMENT PLANNING	4	07/14/14	07/20/14	4
WB-23080	THMACO INSTALLATION	5	07/27/14	08/03/14	0
WB-23090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	5	10/19/14	10/26/14	0
WB-23100	REMOVE/ADJUST GUARDRAIL	2	10/27/14	10/28/14	9
WB-23120	SMA 12.5 ASPHALT PAVEMENT	3	10/27/14	10/29/14	0
WB-23130	REPLACE CURBS/CONCRETE DITCHLINES	1	10/30/14	10/30/14	7
WB-23140	INSTALL RUMBLE STRIPS	1	10/30/14	10/30/14	6
WB-23150	RESET GUARDRAIL	1	11/02/14	11/02/14	7
WB-23160	PAVEMENT LINE MARKINGS	1	11/02/14	11/02/14	6
WB-23170	INSTALL RECESSED MARKERS	1	11/03/14	11/03/14	6
WB-23180	SEGMENT COMPLETE	0		11/03/14	6
<b>WEST BOUND 64 SEGMENT 24</b>					
WB-24000	BEGIN SEGMENT	0	07/01/14		11
WB-24010	STRIPING ERADICATION	1	07/01/14	07/01/14	11
WB-24020	REMOVE EXISTING MARKERS	1	07/02/14	07/02/14	11
WB-24030	DEMO CURBS/CONCRETE DITCHLINES	1	07/06/14	07/06/14	13
WB-24040	CONCRETE PATCHING	1	07/06/14	07/06/14	12
WB-24110	FLEXIBLE PAVING PLANNING	2	07/06/14	07/06/14	11
WB-24050	CLEAN & RESEAL JOINTS	1	07/08/14	07/08/14	12
WB-24060	CRACK SEALING	1	07/08/14	07/08/14	12
WB-24190	ASPHALT CONCRETE SHOULDERS-SMA 12.5	1	07/09/14	07/09/14	11
WB-24070	RIGID PAVEMENT PLANNING	4	07/21/14	07/24/14	5
WB-24080	THMACO INSTALLATION	4	08/05/14	08/10/14	0
WB-24090	INSTALL SMA 19.0 INTERMEDIATE ASPHALT PAVEMENT	4	10/30/14	11/04/14	0
WB-24100	REMOVE/ADJUST GUARDRAIL	2	11/05/14	11/05/14	2
WB-24120	SMA 12.5 ASPHALT PAVEMENT	2	11/05/14	11/06/14	0
WB-24130	REPLACE CURBS/CONCRETE DITCHLINES	1	11/08/14	11/08/14	1
WB-24140	INSTALL RUMBLE STRIPS	1	11/09/14	11/09/14	0
WB-24150	RESET GUARDRAIL	1	11/10/14	11/10/14	1

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## I-64 Schedule Narrative

### **Schedule Overview**

A Draft Project Schedule has been included in our proposal which contains task activities throughout the project timeframe. VDOT will benefit from Branscome's prior plan preparation and experience working in the Hampton Roads area to complete this project on time and within budget. Our team plans to complete the design of the critical items necessary to start construction prior to finalizing the design for the entire project. The construction will be completed in phases, and the project will be complete before the Final Completion Date of November 30, 2014.

Design Activities: January 2014-May 2014

Construction: April 2014 to November 2014

Final Completion: November 30, 2014

### **Critical Path**

The critical path of this project starts with the preparation of design documents, submission, review, and acceptance. The design will be submitted in two packages. The first to include the THMACO design as to release this operation by mid-April. The remaining design approval is scheduled for completion by May 23, 2014. As the designs are accepted, the construction team will begin with the necessary concrete and shoulder improvements, THMACO pavement, and flow through the project in a logical progression of Intermediate and Surface SMA pavements. All other activities will be constructed concurrently with these items. There are concurrent critical paths – one to complete the THMACO by July 31, 2014 and then the overall project completion of November 2014. The THMACO is critical to the intermediate milestone as well as the overall completion milestone.

### **Assumptions**

Our schedule is based on several assumptions that were discussed throughout the procurement process. We anticipate a Notice to Proceed by January 9, 2014, to finalize the design and begin preparing for construction. Also, we assume all current asphalt surfaces will not be improved with this contract or in the contract timeframe. If VDOT elects to revise any existing cross slopes on the Interstate, additional time may be necessary for the design and installation of additional drainage.

### **Design**

The Branscome Team eagerly awaits the 2014 construction season, and understands elements of the design must be accelerated to ensure construction can begin as soon as weather permits. The design package will be separated into two different packages. The first package will focus on surface improvements such as concrete patching, joint seal, and shoulder milling and paving. It will also contain our design for the THMACO. The second package will include all construction tasks related to SMA pavements and shoulder improvements. We have allotted adequate time

for review of submissions in the schedule, and we plan to have the superelevation report submission to VDOT immediately following the Notice to Proceed. We will accomplish this by beginning our design activities directly following the Notice of Intent to Award. The team will conduct weekly meetings on the progress of the design, and as construction starts these meetings will be incorporated into the weekly progress meetings held by the Construction Manager.

## **Construction**

The Branscome Team has split the project into segments. These segments are defined by existing overpasses and bridges. As per the Branscome SOQ, the team will use these natural stopping points as the general phasing pattern with the end result of turning over usable sections that are 100% complete.

Upon award of the contract, the Branscome Team will immediately begin preparing and finalizing all design submittals for approval. The priorities of the completion and submission of finalized design will match the critical items needed to begin work on the project by April 2014.

Branscome plans to begin construction in April 2014 once weather temperatures permit. Focus will be given to all surface improvements still remaining to include concrete patching, joint seal, pavement marking eradication, and shoulder milling and paving. We will also begin the placement of THMACO on the travel lanes, ramps, and shoulders. The general phasing of construction is as follows:

- Phase 1: EB I-64 concrete patching, joint seal, shoulder milling and paving, and THMACO paving. As the EB lanes are finished the crews will immediately begin on the WB lanes.
- Phase 2: Begin installation of SMA 19.0 starting on EB I-64. The paving progression will follow the completion of the THMACO.
- Phase 3: Install SMA 12.5 starting on EB I-64 and finish all other construction activities per segment. This paving and completion of each segment will follow the progression of the first two phases.

As each activity is completed to the point that there is adequate space for the next activity to start, we will proceed through the job completing items from I-64 EB to I-64 WB. We will have multiple crews working on this project and will pursue construction activities in both travel directions when possible. As noted in our SOQ, Branscome will have multiple crews working from multiple asphalt facilities to ensure that the project is completed well within the scheduled timeframe.

## **Schedule Management**

Weekly scheduling meetings will be held by the Construction Manager to establish two and three week forecast schedules. Representatives of all team member firms as well as subcontractors will be present at these meetings to ensure project information is clearly communicated to each key element involved. Monthly progress meetings will be held by the Design Build Project Manager with all key personnel attending. These meetings will focus on the design, QA/QC needs, and the overall construction schedule.

The Branscome Team recognizes that managing the project schedule effectively is the best way to complete the project to everyone's satisfaction. Through open communication and team work we will ensure that all team members understand the short and long term project needs. All team members will be given available time and resources to meet or exceed the schedule requirements. We will continuously document, track, and mitigate any risks to the critical path. We will create and maintain look ahead schedules so each team member can allocate the necessary resources to keep their portion of the project on track.

The Branscome Team will aggressively approach the project schedule starting at the Notice of Intent to Award. As schedules are created and maintained, our team will evaluate any potential delays. In the event of a schedule delay, the team will develop a strategy to use all necessary resources to recover from the delay without a negative impact to VDOT or the traveling public. Our team is committed to delivering a high quality project on schedule and within budget.

# Appendices

**ATTACHMENT 11.8.6(a)**  
**CERTIFICATION REGARDING DEBARMENT**  
**PRIMARY COVERED TRANSACTIONS**

**Project No.: 0064-122-302, N501**

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	<b>November 4, 2013</b>	<b>Vice President</b>
_____ Signature	_____ Date	_____ Title

**Branscome Inc.**  
\_\_\_\_\_  
Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

Project No.: 0064-122-302, N501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	<u>10/16/2013</u>	<u>Executive Vice President</u>
Signature	Date	Title

Dewberry Consultants LLC  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0064-122-302, N501**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	10/24/2013	President
Signature	Date	Title

EBA Engineering, Inc.  
Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

**Project No.: 0064-122-302, N501**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	10/16/13	Partner
Signature	Date	Title

Pulsar Advertising

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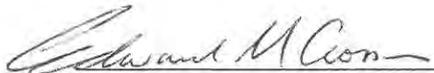
Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

Project No.: 0064-122-302, N501

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- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	<u>10/16/13</u>	<u>Vice President</u>
Signature	Date	Title

AeroMetric, Inc.  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0064-122-302, N501**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

J. Randy Wirt      10/22/13      VICE PRESIDENT  
Signature                      Date                      Title

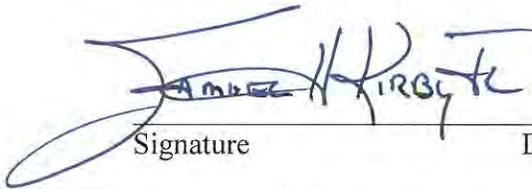
FCS MID-ATLANTIC LLC  
Name of Firm

**ATTACHMENT 11.8.6(b)**  
**CERTIFICATION REGARDING DEBARMENT**  
**LOWER TIER COVERED TRANSACTIONS**

**Project No.: 0064-122-302, N501**

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
  
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

 _____ Signature	10/24/2013 _____ Date	PRESIDENT _____ Title
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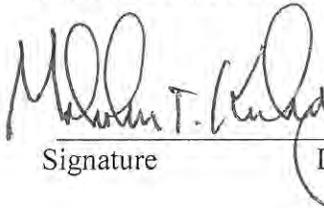
**Froehling & Robertson, Inc.**  
\_\_\_\_\_  
Name of Firm

ATTACHMENT 11.8.6(b)  
CERTIFICATION REGARDING DEBARMENT  
LOWER TIER COVERED TRANSACTIONS

Project No.: 0064-122-302, N501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	October 25, 2013	President
Signature	Date	Title

NXL Construction Company, Inc.  
Name of Firm