



# Letter of Submittal and Attachments

**A DESIGN-BUILD PROJECT**

## **Rolling Road/ Franconia-Springfield Parkway Interchange Improvements**

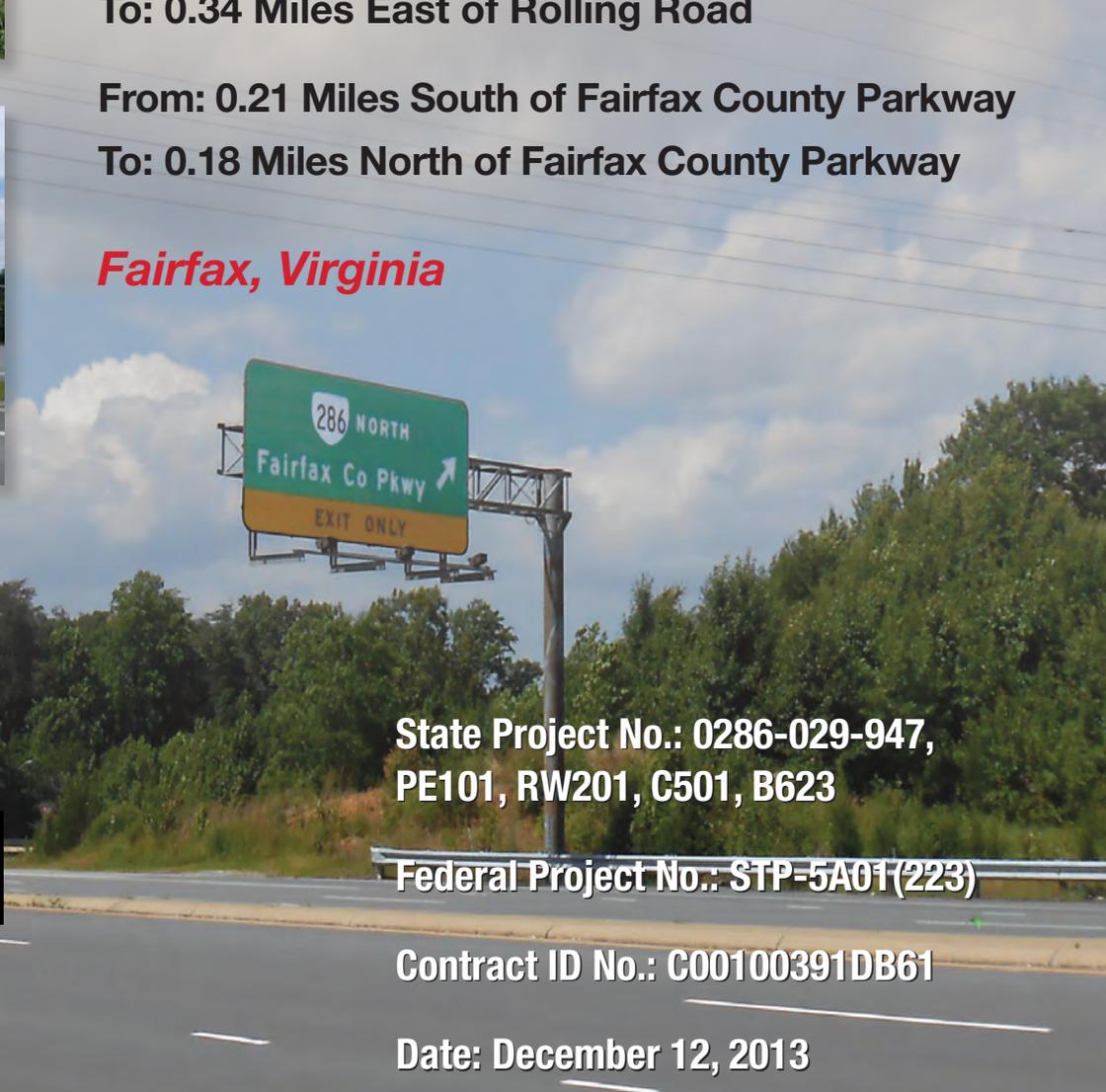
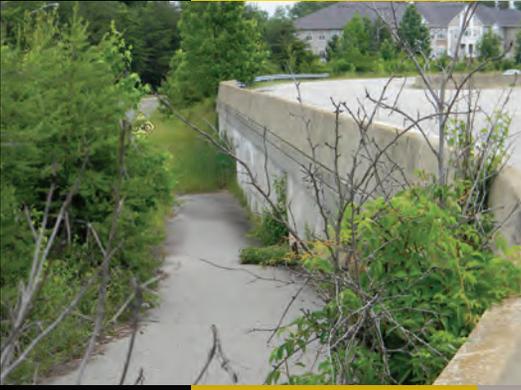
**From: 0.30 Miles West of Rolling Road**

**To: 0.34 Miles East of Rolling Road**

**From: 0.21 Miles South of Fairfax County Parkway**

**To: 0.18 Miles North of Fairfax County Parkway**

***Fairfax, Virginia***



**State Project No.: 0286-029-947,  
PE101, RW201, C501, B623**

**Federal Project No.: STP-5A01(223)**

**Contract ID No.: C00100391DB61**

**Date: December 12, 2013**

**4.0.1.1**

**LOS Checklist**

## ATTACHMENT 4.0.1.1

### ROLLING ROAD/FRANCONIA-SPRINGFIELD PARKWAY INTERCHANGE IMPROVEMENTS

#### LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

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

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
<b>Letter of Submittal and Attachments Checklist</b>	Attachment 4.0.1.1	Section 4.0.1.1	no	Pages i - ii
<b>Acknowledgement of RFP, Revisions, and/or Addenda</b>	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	no	Page iii
<b>Letter of Submittal</b>	NA	Sections 4.1		
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	yes	Pages 1-2
Offeror's official representative information	NA	Section 4.1.1	yes	Page 2
Authorized representative's original signature	NA	Section 4.1.1	yes	Page 2
Declaration of intent	NA	Section 4.1.2	yes	Page 2
120 day declaration	NA	Section 4.1.3	yes	Page 2
Principal Officer information	NA	Section 4.1.5	yes	Page 2
Final Completion Date	NA	Section 4.1.6	yes	Page 2
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.7	no	Appendix 4.1.7
<b>Design Concept Compliance</b>	<b>NA</b>	<b>Section 4.1.8</b>	<b>yes</b>	Page 2
<b>Offeror's Qualifications</b>	NA	Section 4.2		
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any	NA	Section 4.2.1	yes	Page 3



**ATTACHMENT 4.0.1.1**

**ROLLING ROAD/FRANCONIA-SPRINGFIELD PARKWAY INTERCHANGE IMPROVEMENTS**

**LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST**

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
requested changes were previously approved by VDOT				
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	yes	Page 5
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	yes	Pages 3 - 4
<b>Disadvantaged Business Enterprises (DBE)</b>	NA	Section 4.1.9		
Written statement of percent DBE participation	NA	Section 4.1.9	yes	Page 2
<del>DBE subcontracting narrative</del>	NA	<del>Section 4.1.9</del>	yes	
<b>Proposal Schedule and Narrative</b>	NA	Section 4.2.2		
Proposal Schedule	NA	Section 4.2.2.1	no	Section 4.2.2.1
Proposal Schedule Narrative	NA	Section 4.2.2.2	yes	Pages 6 - 16



# **Attachment 3.6**

## **Form C-78-RFP**

**ATTACHMENT 3.6**

**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF TRANSPORTATION**

RFP NO. C00100391DB61

PROJECT NO.: 0286-029-947, PE101, RW201, C501, B623

**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 September 3, 2013 – RFP  
(Date)
2. Cover letter of November 21, 2013 - Addendum 1  
(Date)
3. Cover letter of \_\_\_\_\_  
(Date)

  
\_\_\_\_\_  
SIGNATURE

12/12/13  
\_\_\_\_\_  
DATE

## **4.1**

# **Letter of Submittal**



301 Concourse Boulevard, Suite 300  
Glen Allen, VA 23059  
Phone: 804-290-8500 Fax: 804-418-7935  
[www.americaninfrastructure.com](http://www.americaninfrastructure.com)

December 12, 2013

Stephen D. Kindy, P.E.  
Alternative Project Delivery Office  
Virginia Department of Transportation  
1401 East Broad Street  
Richmond, VA 23219

Letter of Submittal/ Request for Proposals:  
Rolling Road/Franconia-Springfield Parkway Interchange Improvements Design-Build Project  
State Project No.: 0286-029-947, PE101, RW201, C501, B623 Federal Project No.: STP-5A01(223)  
Contract ID Number: C00100391DB61

Dear Mr. Kindy:

American Infrastructure (AI) and Rinker Design Associates, P.C. (RDA) are pleased to present our Letter of Submittal and Attachments to Virginia Department of Transportation (VDOT) for the Rolling Road/Franconia-Springfield Parkway Interchange Improvements project (the Project).

An established design-build team, AI and RDA have collectively been awarded 17 design-build projects valued over \$625M. This experience includes VDOT’s Middle Ground Boulevard Extension and I-581/Elm Avenue Interchange design-build projects where AI and RDA are working together as Lead Contractor and Lead Designer. From this experience, our structured approach to design-build projects will provide VDOT with the best-value and shortest schedule duration for this Project. This approach includes:

- Identifying and mitigating risk issues during the design phase.
- Utilizing innovative design solutions to provide efficient and cost-effective project solutions.
- Completing detailed construction planning during the RFP process and incorporating into the design.
- Coordinating over-the-shoulder reviews to include VDOT’s feedback in our design solutions.
- Dedicating a construction engineer to the design process to incorporate construction means and methods.
- Implementing lessons learned from previous design efforts and construction challenges.

**SUBMITTAL REQUIREMENTS**

The AI/RDA Team submits the information below as detailed in Section 4.1 of the Request for Proposals:

- 4.1.1** The full legal name and address of American Infrastructure – VA, Inc. (AI-VA) is as follows:  
**American Infrastructure – VA, Inc.**, 301 Concourse Boulevard, Suite 300, Glen Allen, VA 23059
- 4.1.2** American Infrastructure – VA, Inc. (AI-VA) intends to enter into a contract with VDOT for the Rolling Road/Franconia-Springfield Parkway Interchange Improvements Project in accordance with the terms of the RFP.
- 4.1.3** The offer in the Price Proposal will remain in full force and effect for one hundred and twenty (120) days after the Letter of Submittal and Attachments submission to VDOT on December 12, 2013.
- 4.1.4** The contact information for Kevin R. Ott (DBPM) who is responsible for the oversight of the entire AI/RDA Team and will be the primary point of contact with VDOT is as follows:  
**Kevin R. Ott** 703.502.7500 (Telephone)  
44209 Wade Drive 703.502.7550 (Fax)  
Chantilly, VA 20152 kevin.ott@americaninfrastructure.com



- 4.1.5 The principal officer of AI-VA with whom a D/B contract with VDOT would be written is:  
**Aaron Myers, VP/GM** 804.290.8500 (Telephone)  
301 Concourse Boulevard – Suite 300 804.418.7935 (Fax)  
Glen Allen, VA 2305 aaron.myers@americaninfrastructure.com
- 4.1.6 The AI/RDA Team proposes the following Final Completion Date.  
**Final Completion:** May 16, 2016
- 4.1.7 AI-VA has included executed Certification Regarding Debarment Primary Covered Transactions (Attachment 11.8.6(a)) and Certification Regarding Debarment Lower Tier Covered Transactions (Attachment 11.8.6(b)) which are included in Appendix 4.1.7.
- 4.1.8 The proposed project concept is fully compliant with the Design Criteria Table included in the RFP Technical Requirements (Part 2, Section 2.3) and all other requirements of this RFP. The proposed limits of construction to include all stormwater management facilities are located within the right-of-way limits shown on the RFP plans with the exception of permanent and temporary easements. The design concept presented does not require Design Exception and/or Design Waivers not identified or included in the RFP or Addendum.
- 4.1.9 AI-VA is committed to achieving the 14% DBE participation goal for the Project, and is working towards achieving the goal by adding certified DBE firms to our management team as well as selecting qualified subcontractors.

We appreciate your consideration of our Letter of Submittal and Attachments and trust your review will find our proposal is in alignment with VDOT's goals for the Rolling Road/Franconia-Springfield Parkway Interchange Improvements Design-Build project.

Respectfully,



Aaron T. Myers, VP/GM  
American Infrastructure – VA, Inc.

## **4.2.1**

# **Organizational Chart and Key Personnel**

The organizational chart and Key Personnel contained in the SOQ remains true and accurate except for two changes to the key personnel. A change in personnel was requested for the Quality Assurance Manager and Construction Manager identified in our SOQ due to those individuals leaving the employment of their respective firms. This change was approved in a letter from VDOT dated October 30, 2013. The following organizational chart and narrative have been updated from the SOQ to reflect these changes. Changes are identified with red underlined text.

**ORGANIZATIONAL CHART AND NARRATIVE**

**FUNCTIONAL RELATIONSHIPS AND COMMUNICATION**

**VDOT** – The Department will coordinate directly with our DBPM as the primary contact for all aspects of design and construction oversight of the Project. Open lines of communication between the QAM and VDOT will assist with monitoring quality assurance oversight.

We anticipate VDOT’s involvement in coordinating with the project stakeholders, including the Fairfax County, adjacent residential communities, the utility companies, and environmental stakeholders. To minimize the potential of coordination issues, the AI/RDA Team will establish a partnering process that integrates all project stakeholders. We have found this approach creates a team focused on the success of the Project, where everyone’s perspective is heard.

**Design-Build Project Management** – Our DBPM will serve as VDOT’s primary point of contact for the Project. Reporting to the DBPM are four key managers; the QAM, DM, CM and Public Relations Manager. This structure, combined with our DBPM’s maintenance of an action item log for potential project issues and three-month look-ahead schedule will ensure the design, construction, and environmental compliance efforts remain on-schedule and in-conformance with VDOT commitments.

**Quality Assurance** – The QAM will lead the independent QA team and be responsible for QA inspection and testing of all materials used and work performed on the Project. She will also monitor the construction QC program and ensure all work, materials testing, and sampling is performed in accordance with the contract requirements and the “approved for construction” plans and specifications. The QAM will report directly to our DBPM with oversight and concurrent reporting directly to VDOT and will be supported by Volkert’s QA inspectors.

**Design** – The DM will report to our DBPM and will lead the design team to ensure the overall design conforms to the contract documents. The AI Team has identified team leads for pertinent disciplines to provide project management and risk mitigation expertise. The design discipline leads as well as the Utility Manager, ROW Manager, and Environmental Compliance lead will report to the DM to ensure design critical elements are carried across all disciplines. The DM will establish and oversee the design QA/QC program, including review of design criteria, calculations, working plans, shop drawings, and specifications. He will also coordinate with the CM on constructability during both design and construction phases.

<i>Relevant Design Team Experience</i>		
<i>Lead Roadway Engineer, Brandon Shock has 14 years of experience and served as Senior Engineer on the AI/RDA I-581/Elm Avenue Interchange D/B project.</i>	<i>Senior Traffic Engineer, Adam Welschenbach has 11 years of experience and held this role on the Stringfellow Road Widening project.</i>	<i>Design QA/QC Manager, Mo Kim has 18 years of experience and served as the Design Manager for the Route 15 PPTA project.</i>

**Figure 3.3.2: Design Team Experience.** Experience of key design team members for roadway, traffic engineering, and design QA/QC will provide an innovative design in compliance with all applicable VDOT standards.



**Construction** – The CM will be responsible for managing the construction process, including QC activities and will report to the DBPM. The CM will be on the project site for the duration of the construction operations, and will coordinate with the DM for RFI’s and design changes that may arise during construction. Public relations updates will be coordinated between the CM and PR Manager to keep project stakeholders informed about the construction impact.

Construction Quality Control Manager (QCM), *Wamiq Hamid*, will report to the CM to ensure materials used and work performed meet contract requirements and “approved for construction” plans and specifications. Comprehensive construction management will be provided under the CM’s leadership. AI’s General Superintendent, Schedule Manager, Safety Manager, and construction leads will all report to the CM. The CM is also responsible to oversee our DBE Coordinator in meeting the project goals.

<b>Relevant Construction Team Experience</b>	
<i>Bridge Superintendent, Jeff Miller has 29 years of experience and ensured the safety of the public while maintaining vehicular and boat traffic as superintendent for the Bridge Rehabilitation on Route 208 over Lake Anna.</i>	<i>Schedule Manager, Jessica Colbert has 10 years of experience and oversaw early completion of the Richmond Airport Connector Road Design-Build project for AI.</i>

**Figure 3.3.3: Construction Team Experience.** AI’s experienced bridge superintendent and schedule manager will plan construction operations in coordination with schedule updates to ensure the Project is delivered on or ahead of schedule.

**TMP/MOT** – The MOT Coordinator, ~~*Ivan Saer*~~, will report to the CM and coordinate with the TMP/MOT design lead to build constructability into the final design, ensure the TMP is implemented properly, and identify any necessary adjustments. Providing the MOT Coordinator’s expertise during the design phase will produce a quality TMP with minimal field changes necessary. Coupled with his oversight of construction work packages, this provides continuity for implementation of the TMP.

Safety Manager, *Chris Shertzer*, will report to the CM and participate in pre-traffic switch planning meetings, as with all pre-planning meetings. He will be onsite during traffic switches to assist in reviewing the safety of construction personnel, motorists and pedestrians traveling through the site.

<b>Relevant TMP/MOT Experience</b>	
<del><i>Construction Manager</i></del> <del><i>MOT Coordinator</i></del> , <i>Ivan Saer</i> has 20 years of experience and oversaw implementation of a complex TMP for phased construction of the Saintsbury Drive and Vienna Metro Improvements project in NOVA.	<i>Safety Manager, Chris Shertzer has 9 years of experience as a safety manager and filled this role on the Richmond Airport Connector Road Design-Build project.</i>

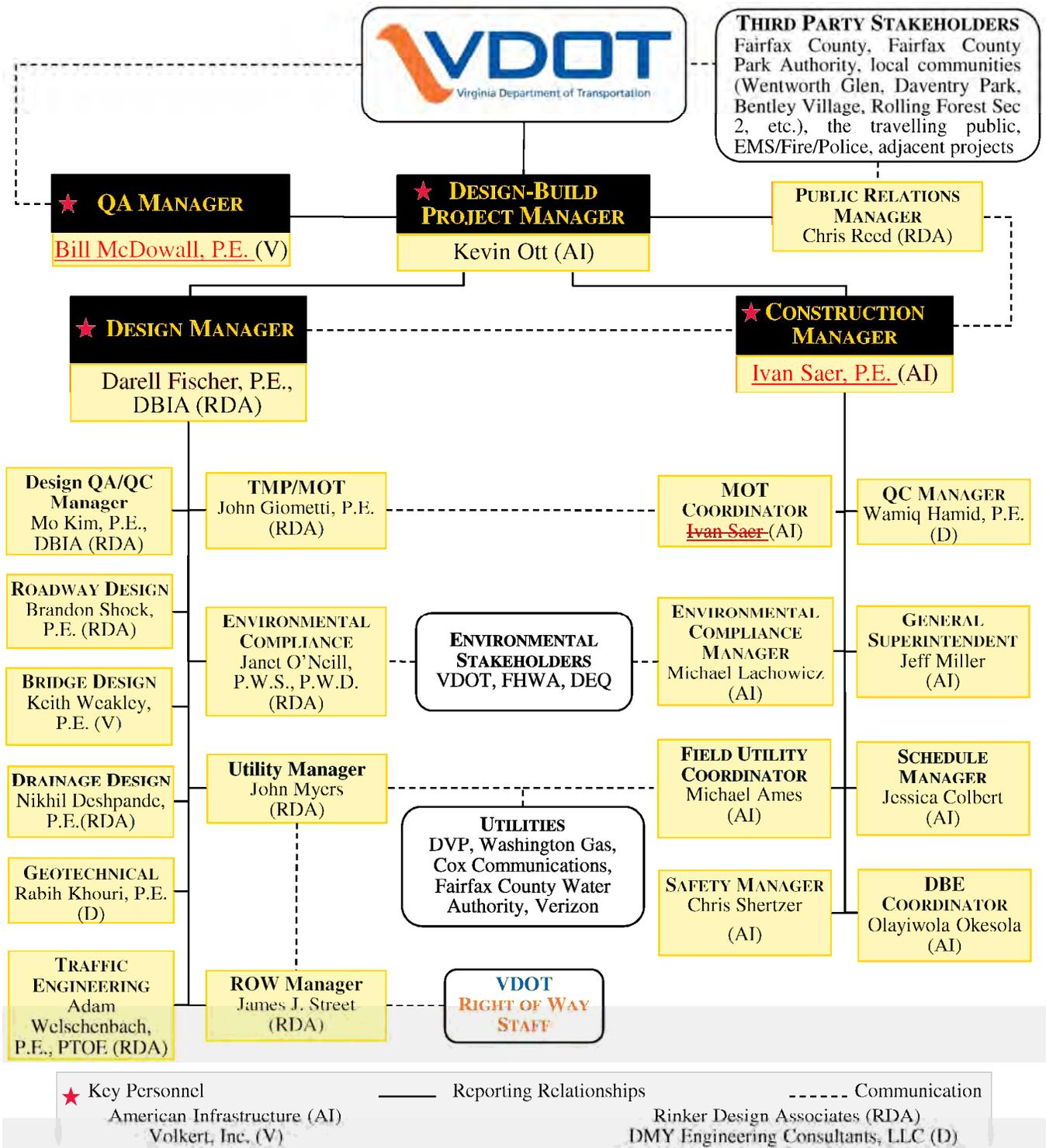
**Figure 3.3.4: Construction Team Experience.** AI’s experienced ~~construction manager~~ ~~bridge superintendent~~ and ~~schedule~~ ~~safety~~ manager will plan construction operations in coordination with schedule updates to ensure the Project is delivered on or ahead of schedule.

**Public Relations** – Public Relations Manager (PRM), *Chris Reed*, will coordinate communication with Fairfax County, the travelling public, local residents, EMS/Fire/Police, and adjacent construction projects. He will report directly to the DBPM but have continual interaction with the DM and CM throughout the life of the project. He has been added to our team to develop a comprehensive public outreach plan that will communicate construction impacts and provide a method for the public to voice concerns during construction. Mr. Reed has 43 years of experience in the industry and prior to joining RDA served as VDOT’s PM for the *Fairfax County Parkway* and *Woodrow Wilson Bridge* projects.



**ORGANIZATIONAL CHART**

The revised organizational chart reflects changes to two of the key personnel – Quality Assurance Manager and Construction Manager. In addition, the construction lead for MOT Coordinator will be filled by a qualified individual upon Notice to Proceed.



## **4.2.2.1**

# **Proposal Schedule**

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish	Calendar	2014												2015												2016											
							Jan	F	Mar	Apr	M	Jun	Jul	A	S	Oct	N	D	Jan	F	Mar	Apr	M	Jun	Jul	A	S	Oct	N	D	Jan	F	Mar	Apr								
<b>Rolling Road/Franconia-Springfield Parkway Interchnag...</b>																																										
<b>Entire Project</b>																																										
<b>Project Milestones</b>																																										
G010010	Construction Start	0	0	09-Dec-14		Rolling Road 5-Day Work Calen...	◆ Construction Start																																			
G010100	Phase 1 Start	0	7	23-Dec-14		Rolling Road 5-Day Work Calen...	◆ Phase 1 Start																																			
G010110	Phase 2 Start	0	1	22-May-15		Rolling Road 5-Day Work Calen...	◆ Phase 2 Start																																			
G010120	Phase 3 Start	0	1	10-Sep-15		Rolling Road 5-Day Work Calen...	◆ Phase 3 Start																																			
G010130	Phase 4 Start	0	21	10-Feb-16		Rolling Road 5-Day Work Calen...	◆ Phase 4 Start																																			
G010200	Phase 1 Construction Complete	0	0		21-May-15	Rolling Road 5-Day Work Calen...	◆ Phase 1 Construction Complete																																			
G010210	Phase 2 Construction Complete	0	0		09-Sep-15	Rolling Road 5-Day Work Calen...	◆ Phase 2 Construction Complete																																			
G010220	Phase 3 Construction Complete	0	20		09-Feb-16	Rolling Road 5-Day Work Calen...	◆ Phase 3 Construction Complete																																			
G010230	Phase 4 Construction Complete	0	26		07-Apr-16	Rolling Road 5-Day Work Calen...	◆ Phase 4 Construction Complete																																			
G010999	Project Final Completion (RFP = 16-MAY-2016)	0	7		05-May-16	Rolling Road 5-Day Work Calen...	◆ Project Final Completion																																			
G010NTP	Notice to Proceed	0	0	03-Jan-14		Rolling Road 5-Day Work Calen...	▶ Notice to Proceed																																			
<b>Project Management</b>																																										
G020030	SFA Site Specific Safety Plan	20	159	03-Jan-14	30-Jan-14	Rolling Road 5-Day Work Calen...	■ SFA Site Specific Safety Plan																																			
G020040	R/A Site Specific Safety Plan	21	159	31-Jan-14	28-Feb-14	Rolling Road 5-Day Work Calen...	■ R/A Site Specific Safety Plan																																			
G020050	A/C Site Specific Safety Plan	15	159	03-Mar-14	21-Mar-14	Rolling Road 5-Day Work Calen...	■ A/C Site Specific Safety Plan																																			
G020060	R/A Revised Site Specific Safety Plan, final	21	159	24-Mar-14	22-Apr-14	Rolling Road 5-Day Work Calen...	■ R/A Revised Site Specific Safety Plan, final																																			
G020070	SFA QA/QC Plan	5	174	03-Jan-14	09-Jan-14	Rolling Road 5-Day Work Calen...	■ SFA QA/QC Plan																																			
G020080	R/A QA/QC Plan	21	174	10-Jan-14	07-Feb-14	Rolling Road 5-Day Work Calen...	■ R/A QA/QC Plan																																			
G020090	A/C QA/QC Plan	15	174	10-Feb-14	28-Feb-14	Rolling Road 5-Day Work Calen...	■ A/C QA/QC Plan																																			
G020100	R/A Revised QA/QC Plan, Final	21	174	03-Mar-14	31-Mar-14	Rolling Road 5-Day Work Calen...	■ R/A Revised QA/QC Plan, Final																																			
G020110	SFA Hazardous Material Management Plan	20	174	03-Jan-14	30-Jan-14	Rolling Road 5-Day Work Calen...	■ SFA Hazardous Material Management Plan																																			
G020120	R/A Hazardous Material Management Plan	21	174	31-Jan-14	28-Feb-14	Rolling Road 5-Day Work Calen...	■ R/A Hazardous Material Management Plan																																			
G020130	A/C Hazardous Material Management Plan	10	174	03-Mar-14	14-Mar-14	Rolling Road 5-Day Work Calen...	■ A/C Hazardous Material Management Plan																																			
G020140	R/A Revised Hazardous Material Management Plan, Final	21	174	17-Mar-14	14-Apr-14	Rolling Road 5-Day Work Calen...	■ R/A Revised Hazardous Material Management Plan, Final																																			
G020150	SFA Emergency Management Plan	20	169	03-Jan-14	30-Jan-14	Rolling Road 5-Day Work Calen...	■ SFA Emergency Management Plan																																			
G020160	R/A Emergency Management Plan	21	169	31-Jan-14	28-Feb-14	Rolling Road 5-Day Work Calen...	■ R/A Emergency Management Plan																																			
G020170	A/C Emergency Management Plan	15	169	03-Mar-14	21-Mar-14	Rolling Road 5-Day Work Calen...	■ A/C Emergency Management Plan																																			
G020180	R/A Revised Emergency Management Plan, Final	21	169	24-Mar-14	22-Apr-14	Rolling Road 5-Day Work Calen...	■ R/A Revised Emergency Management Plan, Final																																			
G020220	Preparatory Meeting - Erosion & Sedimentation Control	1	0	17-Dec-14	17-Dec-14	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Erosion & Sedimentation Control																																			
G020230	Preparatory Meeting - Clear & Grub	1	0	22-Dec-14	22-Dec-14	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Clear & Grub																																			
G020240	Preparatory Meeting - MOT	1	0	08-Dec-14	08-Dec-14	Rolling Road 5-Day Work Calen...	Preparatory Meeting - MOT																																			
G020250	Preparatory Meeting - Structure Backfill	1	85	05-Nov-14	05-Nov-14	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Structure Backfill																																			
G020260	Preparatory Meeting - Storm Drainage	1	35	29-Jan-15	29-Jan-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Storm Drainage																																			
G020270	Preparatory Meeting - Stabilization & Embankment	1	0	15-Jan-15	15-Jan-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Stabilization & Embankment																																			
G020280	Preparatory Meeting - Subgrade & Aggregate Base	1	23	12-Feb-15	12-Feb-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Subgrade & Aggregate Base																																			
G020290	Preparatory Meeting - Signalization	1	7	10-Mar-16	10-Mar-16	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Signalization																																			
G020300	Preparatory Meeting - Asphalt Pavement	1	25	20-Feb-15	20-Feb-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Asphalt Pavement																																			
G020310	Preparatory Meeting - Retaining Walls	1	63	22-Oct-14	22-Oct-14	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Retaining Walls																																			
G020320	Preparatory Meeting - Bridge Substructure	1	224	07-May-15	07-May-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Bridge Substructure																																			
G020330	Preparatory Meeting - Bridge Deck	1	124	13-Aug-15	13-Aug-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Bridge Deck																																			
G020340	Preparatory Meeting - Electrical Installation & Lighting	1	33	12-Feb-15	12-Feb-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Electrical Installation & Lighting																																			
G020350	Preparatory Meeting - Underdrain	1	24	18-Feb-15	18-Feb-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Underdrain																																			
G020360	Preparatory Meeting - Guardrail	1	0	17-Apr-15	17-Apr-15	Rolling Road 5-Day Work Calen...	Preparatory Meeting - Guardrail																																			

■ Remaining Level of Effort   
 ■ Actual Work   
 ■ Critical Remaining Work   
 ▼ Summary  
■ Actual Level of Effort   
 ■ Remaining Work   
 ◆ Milestone















## **4.2.2.2**

# **Proposal Schedule Narrative**

## PROPOSAL SCHEDULE DEVELOPMENT

The AI Team has thoroughly evaluated the Project RFP documents, performed site visits of the existing interchange, attended pre-proposal meetings, and performed internal brainstorming sessions to fully assess the associated design, right-of-way impacts, construction, geotechnical constraints and environmental challenges. While performing these activities, we paid special attention to the VDOT stated schedule milestones included in Section 2.3, specifically final completion of the Project on May 16, 2016. This narrative explains how the AI Team plans to maximize the benefits of the Design-Build delivery method to mitigate risks of future uncertainties, manage the environmental requirements, minimize impacts to the travelling public, and deliver the Project on schedule. The Proposal Schedule in its entirety can be found in Section 4.2.2.1.

## WORK BREAKDOWN STRUCTURE

The baseline plan integrates all design disciplines into a Work Breakdown Structure (WBS) that addresses the milestones of the Rolling Road / Franconia-Springfield Parkway Interchange Improvements Project. This WBS, found in Exhibit 4.2.2.2A, reflects the AI Team's approach to dividing the Project into manageable groups such as: Work Package, Area, Sub-Areas and Phasing. The AI Team has defined the following Phase and Area breakdowns:

### MOT APPROACH & PHASING

The AI Team has broken the work down into four major phases, described below. As is typical with the Design-Build delivery method, some of the preconstruction phases will overlap with the construction phases to shorten the overall duration of the Project.

**Pre-Construction Activities:** This section includes all of the non-construction activities and is broken up into the following 11 categories:

1. *Project Milestones:* This section encompasses the key milestones on the Project.
2. *Project Management:* This section includes general submittals that are required. It also includes coordination with public and private utilities such as Dominion VA Power, Cox, Verizon and Fairfax County.
3. *Scope Validation Period:* This section contains the activities that make up scope validation.
4. *Design:* This section of the schedule captures activities associated with Design and Enabling Work. These tasks must take place for construction to proceed. The Design activities have been grouped into Work Packages which mirror the expected Design Packages that will be submitted for VDOT's approval. Although the goal of the "over-the-shoulder" review process is to minimize review cycles, for most design packages, AI included two review cycles in the schedule. Thorough coordination with reviewing parties may allow the second cycle to be eliminated or review time to be reduced, which would shorten the duration of the design phase.
5. *Permits / Environmental:* This section contains the activities that deal with the entire permitting process.
6. *Right-of-Way:* This section encompasses the activities associated with the planning, approval and acquisition of affected properties.
7. *Procurement:* This section of the schedule captures activities associated with Contract Submittals and Construction Working Drawings. It includes the activities to procure vendors and materials.
8. *Project Closeout:* This section includes activities to finalize the Project.
9. *MOT / Traffic Switches:* This section contains all activities for traffic control.
10. *Entire Project:* This section encompasses activities that extend across the entire Project.

**Construction Phase 1:** During Phase 1 Construction, the right side of Ramp B and Fairfax County Parkway from station 419+00 to station 31+75 of Loop Ramp B are constructed. Additionally, the Rolling Road / Fairfax County Parkway and the Shared Use Path are built. Retaining walls A, B and D are also completed.

**Construction Phase 2:** During Phase 2 Construction, the right side of Loop Ramp B from station 31+75 to 43+48 as well as the westbound widening of Fairfax County / Franconia-Springfield Parkways from station 117+86 to 125+79 are built. Also, Fairfax County Parkway widening from 418+21 to 419+00 is constructed, and the bridge superstructure and substructure pier protection and repairs (as required) are completed.

**Construction Phase 3:** During Phase 3 Construction, the left side of Ramp B from stations 39+00 to 65+09 and the left side of Loop Ramp B from stations 31+75 to 43+48 are constructed. The median widening of Fairfax County / Franconia-Springfield Parkways is built as is retaining wall D.

**Construction Phase 4:** During Phase 4 Construction, milling and overlay / final surface paving is completed as well as the finishes.

## **CALENDARS**

Based on past experiences with construction scheduling, the AI Team has utilized three calendars for the purposes of the Proposal Schedule. All calendars take State Holidays and AI Employee Holidays into account. Upon award of the contract, these calendars would be further tailored to the specific restrictions of each traffic area per the contract documents and any operation-specific considerations.

### **BASE 5-DAY CALENDAR WITH HOLIDAYS**

This calendar is a base calendar showing work taking place five days per week every week except where restricted by standard State Holidays and AI Employee Holidays. AI's durations during the construction phases are based on getting five days of production per week. If weather impacts the schedule Monday through Friday, Saturdays would be utilized to recover the lost weather days.

### **7-DAY REVIEW/CURE**

This calendar allows work to take place every day of the year. However, it has only been applied to activities such as submittal reviews and concrete curing periods where the durations are primarily based on calendar days instead of working days.

## **PROPOSAL SCHEDULE SOURCE DOCUMENTS**

Included in the Technical Proposal submission (Copy 1) is a CD containing a PDF of the Proposal Schedule, Schedule Narrative, including all Exhibits and a backup file (.XER) of the Schedule. The schedule was created using Primavera v6.2.1. Also provided are the layout files correlating to the Exhibits which can be imported into Primavera for review purposes. The scheduling settings used in Primavera along with a list of Acronym Definitions used in the schedule are provided in Exhibit 4.2.2.2B.

## **PROPOSAL SCHEDULE DEVELOPMENT AND APPROACH**

The success of a project is measured by a number of different factors. One very important factor is the efficiency and speed in which the work can be done – our Project Schedule. We schedule our work by taking into account certain possibilities in hopes that they do not become eventualities. Our schedule narrative that follows is a discussion of the design and construction process, the key elements to maintaining our schedule and a breakdown of the schedule components. In preparing for and developing this detailed proposal, a significant amount of work has already been performed. The level of detail that we have analyzed and developed the design to is not only necessary to position ourselves to win but also to jump start our schedule once NTP is provided.

The AI Team has taken into account the requirements of Article 6 of the General Conditions of Contract (Part 4) when developing the WBS list of activities. Upon award, a cost and resource loaded project schedule will be provided by the AI Team within the timeframe required in the RFP and will be maintained by our Scheduling Manager.

The AI Team evaluated various contributing factors for each area of the Project. Focused attention was applied in the areas of public impact, environmental protection, and schedule acceleration. By breaking the Project into Areas, as previously described, the schedule of each area could be assessed in terms of traffic management, environmental concerns, and operation flow. Many Areas of the Project have sub-areas and sub-phasing that are a direct result of these assessments. The ultimate goal is to have consistent work flow without delays through the project.

### **DESIGN OVERVIEW**

Although the official kickoff to our schedule is NTP, our team understands the importance of hitting the ground running. Therefore, we intend to utilize the time between Notice of Intent to Award and NTP to advance those elements of work that can be advanced and to establish all of our controls in executing the work according to our schedule. To control schedule during design phase, the AI Team plans to expedite the design of the Project into sub packages: 1) Right-of-Way; 2) Erosion and Sediment Control Plans; 3) Grading, Drainage; 4) Retaining Wall Plans; 5) Transportation Management Plan and MOT Plans; 6) Complete Bridge Design Plans.

The design will be developed in a systematic and logical manner. Design-Build projects succeed by designing in a layering approach. Typically, the first layer after supplemental surveys and utility designations/locations will be an approved E&S plan to allow MOT and demolition operations to begin. Perimeter controls will be designed to function throughout all phases of construction where feasible. In order to realistically accommodate this approach, the SWM design will need to be substantially addressed. In several areas of the Project, the E&S operations cannot proceed without appropriate MOT Controls. MOT design will require sufficient detail to establish proper controls. Since the Project overlays existing roadways, MOT will need to be approved prior to implementation of the E&S or G&D plan at those locations. The second layer will be Grading and Drainage (G&D) design. This will be our detailed design up to finished grade including pavement design.

Simultaneously, we will develop our in-plan utility relocations design. These designs will continually integrate updated information from other disciplines/designs but will be developed as a separate package to facilitate review and construction once approved. The Design-Build team plans to proactively coordinate with the local municipalities during the Design process to prevent delay or impacts. At this time, no utilities appear to conflict with any of the work. We will continue to monitor this area.

Building upon the G&D design will be the Lighting, Signing and Marking (LSM) plan. Although construction of these elements cannot be completed until the final pavement section design is established, having them completed and approved removes any concerns or potential schedule conflicts associated with these elements. In addition, these elements tend to have longer lead times for submittals and fabrication. Early approval of this package will allow other preconstruction tasks to commence such that construction can take place as soon as the final pavement section design is approved.

### **COST & SCHEDULE SAVING DESIGN**

The AI Team has completed our analysis and has determined the most economical designs in schedule, construction cost, and long-term maintenance cost.

**Right-of-Way:** Given the uncertain nature of right-of-way negotiations, especially relocations, we have allotted time in our schedule to absorb some of this risk. However, initial design indicates that there will be no Right-of-Way to acquire.



**Environmental Compliance:** As design progresses and the final impacts to environmental resources are realized, coordination with external agencies for review, approval and permitting will be finalized. We believe there are opportunities in our design to minimize the impacts that have been identified, thereby, making the approval/permitting process easier and more palatable.

**Hazardous Materials Services:** The potential exists for encountering hazardous materials during demolition of structures. As described in the RFP, no hazardous material was found. However, further investigation will be performed.

**Utilities:** No utilities are effected by the work.

### **CONSTRUCTION**

The construction team will work closely with the design team to monitor progress of Design Approvals. Regular Coordination meetings will allow the construction team to proactively monitor which project areas will become available first.

In general, the team intends to focus on preconstruction activities necessary to access and begin the construction of Ramp B and Loop Ramp B.

Another focus for the construction team will be the median reconstruction of the bridge. These operations present risks such as worker safety and public safety. AI will maximize its planning and quality control efforts to optimize these operations in all phases.

### **CRITICAL ACTIVITIES AND POTENTIAL CONSTRAINTS**

A schedule layout showing only near critical activities is provided in Exhibit 4.2.2.2C. Near critical activities were defined as having less than twenty days float. As discussed previously, we expect the greatest schedule risk and constraint to be in the area of Ramp B and Loop Ramp B, and the associated retaining walls.

### **SCHEDULE MANAGEMENT**

The Project Schedule will be utilized not only for management of the project sequencing and duration, but also as a key tool in team development and coordination. The visual representation of the Project will provide a method for key stakeholders to initiate “make certain” checklists to identify key tasks to be done by accountable parties. Similarly, the schedule will provide a long-term look ahead to plan for design workshops, over-the-shoulder reviews and design-build coordination meetings. These meetings will contribute to timely constructability reviews and intermediate feedback from VDOT through over-the-shoulder review meetings. The AI Team will also hold formal partnering meetings on a quarterly basis for issue resolution, follow-up, and look-ahead reviews of upcoming work and potential “rocks-in-the-road”, allowing ample time to develop a mitigation plan, if needed. Further, AI’s construction team will be able to streamline the development of operation based work packages from the project schedule. These work packages will include short-term scheduling, QA/QC coordination, and any methods of addressing all remaining constraints. As our standard schedule management process, the Project Schedule will be the driving force behind all long-term and short-term planning to provide the opportunity to recognize and mitigate risks as early as possible in the project.

### **SCHEDULE ACCELERATION / COST SAVING ELEMENT**

The AI Team has spent extensive time reviewing the VDOT provided information associated with this Project. Our review of the materials suggests that there are some areas where, through additional study and design efforts, potential positive schedule and cost saving recommendations may be realized. At a minimum however; taking into consideration Permitting, Environmental Mitigation, constructability, and long-term maintenance; the AI Team will proactively attack to complete the Project ahead of schedule.

**EXHIBIT 4.2.2.2A**  
**WORK BREAKDOWN STRUCTURE**

WBS Code	WBS Name	Start	Finish	Total Activities
C00100391DB61	Rolling Road/Franconia-Springfield Parkway Interchnage Impro...	03-Jan-14	02-May-16	295
C00100391DB61.GO	Entire Project	03-Jan-14	02-May-16	187
C00100391DB61.GO.1	Project Milestones	03-Jan-14	02-May-16	11
C00100391DB61.GO.2	Project Management	03-Jan-14	07-Mar-16	57
C00100391DB61.GO.3	Scope Validation Period	03-Jan-14	19-Jun-14	3
C00100391DB61.GO.4	Design	03-Jan-14	23-Jan-15	67
C00100391DB61.GO.5	Public Involvement	03-Jan-14	16-Jan-14	1
C00100391DB61.GO.6	Permits / Environmental	07-Mar-14	27-Oct-14	5
C00100391DB61.GO.7	Right-of-Way	03-Jan-14	28-Nov-14	13
C00100391DB61.GO.8	Procurement	04-Apr-14	06-Jul-15	21
C00100391DB61.GO.9	Project Closeout	05-Apr-16	02-May-16	1
C00100391DB61.GO.10	MOT/Traffic Switches	07-Jan-15	05-Apr-16	6
C00100391DB61.GO.11	Project Wide Activities	16-Jan-15	05-Feb-15	2
C00100391DB61.CA	Phase 1 Construction	08-Jan-15	21-May-15	48
C00100391DB61.CA.R	Roadway	08-Jan-15	21-May-15	30
C00100391DB61.CA.R.A	Ramp B	21-Jan-15	21-May-15	13
C00100391DB61.CA.R.B	Loop Ramp B	08-Jan-15	13-Mar-15	7
C00100391DB61.CA.R.D	Rolling Road / Fairfax County Parkway	08-Jan-15	09-Apr-15	6
C00100391DB61.CA.R.P	Shared Use Path	18-Mar-15	30-Mar-15	4
C00100391DB61.CA.B	Bridges	08-Jan-15	21-Apr-15	12
C00100391DB61.CA.B.A	Fairfax County Parkway Bridge	08-Jan-15	21-Apr-15	12
C00100391DB61.CA.B.A.B	Superstructure	08-Jan-15	21-Apr-15	12
C00100391DB61.CA.W	Retaining Walls	23-Feb-15	25-Mar-15	6
C00100391DB61.CA.W.A	Retaining Wall A	23-Feb-15	10-Mar-15	2
C00100391DB61.CA.W.B	Retaining Wall B	23-Feb-15	17-Mar-15	2
C00100391DB61.CA.W.D	Retaining Wall D	23-Feb-15	25-Mar-15	2
C00100391DB61.CB	Phase 2 Construction	22-May-15	09-Sep-15	33
C00100391DB61.CB.R	Roadway	26-May-15	09-Sep-15	30
C00100391DB61.CB.R.A	Ramp B	15-Jul-15	20-Jul-15	2
C00100391DB61.CB.R.B	Loop Ramp B	26-May-15	22-Jul-15	13
C00100391DB61.CB.R.C	Fairfax County Parkway	24-Jun-15	13-Aug-15	7
C00100391DB61.CB.R.F	Fairfax County / Franconia-Springfield Parkways	19-Jun-15	09-Sep-15	8
C00100391DB61.CB.B	Bridges	22-May-15	03-Sep-15	3
C00100391DB61.CB.B.A	Fairfax County Parkway Bridge	22-May-15	03-Sep-15	3
C00100391DB61.CB.B.A.A	Substructure	22-May-15	03-Sep-15	3
C00100391DB61.CC	Phase 3 Construction	10-Feb-15	09-Feb-16	22
C00100391DB61.CC.R	Roadway	11-Sep-15	09-Feb-16	20
C00100391DB61.CC.R.A	Ramp B	02-Oct-15	24-Nov-15	8
C00100391DB61.CC.R.B	Loop Ramp B	11-Sep-15	23-Oct-15	6
C00100391DB61.CC.R.F	Fairfax County / Franconia-Springfield Parkways	16-Oct-15	09-Feb-16	6
C00100391DB61.CC.W	Retaining Walls	10-Feb-15	24-Feb-15	2
C00100391DB61.CC.W.C	Retaining Wall C	10-Feb-15	24-Feb-15	2
C00100391DB61.CD	Phase 4 Construction	11-Feb-16	04-Apr-16	5
C00100391DB61.CD.R	Roadway	11-Feb-16	04-Apr-16	5



**EXHIBIT 4.2.2.2B**  
**SCHEDULE SETTINGS & ACRONYMS**

Scheduling/Leveling Settings:

General

Scheduling .....	Yes
Leveling .....	No
Ignore relationships to and from other projects .....	No
Make open-ended activities critical .....	No
Use Expected Finish Dates .....	Yes
Schedule automatically when a change affects dates .....	No
Level resources during scheduling .....	No
Recalculate assignment costs after scheduling .....	No
When scheduling progressed activities use .....	Retained Logic
Calculate start-to-start lag from .....	Early Start
Define critical activities as Total Float less than or equal to..	0
Compute Total Float As .....	Finish Float
Calculate float based on finish date of .....	Each project
Calendar for scheduling Relationship Lag .....	Predecessor Activity Calendar

Advanced

Calculate multiple float paths.....	No
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Acronyms:

SFA	Submit for Approval
R/A	Review and Approve
A/C	Additions and Corrections
MOT	Maintenance of Traffic
F/R/P	Form/Reinforce/Pour

**EXHIBIT 4.2.2.2C  
NEAR CRITICAL ACTIVITIES**

Rolling Road/Franconia-Springfield Parkway		Near Critical Path		11-Dec-13 08:53	
Activity ID	Activity Name	Original Duration	Total Float	Start	Finish
<b>Rolling Road/Franconia-Springfield Parkway Interchnage...</b>		599	7	03-Jan-14	05-May-16
<b>Entire Project</b>		599	7	03-Jan-14	05-May-16
<b>Project Milestones</b>		599	7	03-Jan-14	05-May-16
G010010	Construction Start	0	0	09-Dec-14	
G010100	Phase 1 Start	0	7	23-Dec-14	
G010110	Phase 2 Start	0	1	22-May-15	
G010120	Phase 3 Start	0	1	10-Sep-15	
G010200	Phase 1 Construction Complete	0	0		21-May-15
G010210	Phase 2 Construction Complete	0	0		09-Sep-15
G010220	Phase 3 Construction Complete	0	20		09-Feb-16
G010999	Project Final Completion (RFP = 16-MAY-2016)	0	7		05-May-16
G010NTP	Notice to Proceed	0	0	03-Jan-14	
<b>Project Management</b>		323	7	08-Dec-14	10-Mar-16
G020220	Preparatory Meeting - Erosion & Sedimentation Control	1	0	17-Dec-14	17-Dec-14
G020230	Preparatory Meeting - Clear & Grub	1	0	22-Dec-14	22-Dec-14
G020240	Preparatory Meeting - MOT	1	0	08-Dec-14	08-Dec-14
G020270	Preparatory Meeting - Stabilization & Embankment	1	0	15-Jan-15	15-Jan-15
G020290	Preparatory Meeting - Signalization	1	7	10-Mar-16	10-Mar-16
G020360	Preparatory Meeting - Guardrail	1	0	17-Apr-15	17-Apr-15
G020380	Preparatory Meeting - Topsoil & Seeding	1	0	21-Apr-15	21-Apr-15
G020400	Preparatory Meeting - Concrete Curb & Sidewalk	1	0	07-Apr-15	07-Apr-15
G020999	Mobilization for Construction	10	0	09-Dec-14	22-Dec-14
<b>Design</b>		0	0	03-Jan-14	03-Jan-14
G040010	Design Start	0	0	03-Jan-14	
<b>Right-of-Way</b>		237	0	03-Jan-14	08-Dec-14
G070010	Property/ROW Research	20	0	03-Jan-14	30-Jan-14
G070020	Prepare Right-of-Way Acquisition Plan	60	0	31-Jan-14	25-Apr-14
G070030	SFA Right-of-Way Acquisition Plan	5	0	28-Apr-14	02-May-14
G070040	R/A Right-of-Way Acquisition Plan	21	0	05-May-14	03-Jun-14
G070080	Prepare Appraisals & Submit Packages to VDOT	40	0	04-Jun-14	30-Jul-14
G070090	VDOT Approval of Appraisals	21	0	31-Jul-14	20-Aug-14
G070100	Complete Initial Negotiation Contact with all Property Owners	15	0	21-Aug-14	11-Sep-14
G070110	Obtain Refusal/Acceptance on Parcels	35	0	12-Sep-14	30-Oct-14
G070120	Submit RW-24 Reports on Refusals	10	0	31-Oct-14	13-Nov-14
G070130	Submit RW-24 Reports on all Parcels	10	0	31-Oct-14	13-Nov-14
G070140	Receive Right-of-Way Clearances	15	0	14-Nov-14	08-Dec-14
<b>Project Closeout</b>		20	7	08-Apr-16	05-May-16
G090010	Punchlist / De-mobilization	20	7	08-Apr-16	05-May-16
<b>MOT/Traffic Switches</b>		291	20	23-Dec-14	10-Feb-16
G100010	Install Project Wide Construction Signs	5	0	23-Dec-14	06-Jan-15
G100020	Install MOT Controls - Phase 1	2	0	07-Jan-15	08-Jan-15
G100030	Install MOT Controls / Switch Traffic - Phase 2	1	0	22-May-15	22-May-15
G100040	Install MOT Controls / Switch Traffic - Phase 3	1	0	10-Sep-15	10-Sep-15
G100050	Install MOT Controls / Switch Traffic - Phase 4	1	20	10-Feb-16	10-Feb-16
<b>Project Wide Activities</b>		15	0	09-Jan-15	29-Jan-15
G110010	Install E & S Controls - Phase 1	3	0	09-Jan-15	13-Jan-15
		TASK filter: Near Critical Less than 20day Float.			
		(c) Primavera Systems, Inc.			

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish
G110020	Install SWM Ponds - Phase 1	10	0	16-Jan-15	29-Jan-15
<b>Phase 1 Construction</b>		<b>92</b>	<b>0</b>	<b>14-Jan-15</b>	<b>21-May-15</b>
<b>Roadway</b>		<b>92</b>	<b>0</b>	<b>14-Jan-15</b>	<b>21-May-15</b>
<b>Ramp B</b>		<b>92</b>	<b>0</b>	<b>14-Jan-15</b>	<b>21-May-15</b>
CARA010	Clear & Grub - 39+00 to 65+09 RT - Ramp B	2	0	14-Jan-15	15-Jan-15
CARA020	Excavate / Widen Roadway - 39+00 to 65+09 RT - Ramp B	10	0	30-Jan-15	12-Feb-15
CARA040	Finegrade Subgrade - 39+00 to 65+09 RT - Ramp B	3	0	08-Apr-15	10-Apr-15
CARA050	Place Stone Base - 39+00 to 65+09 RT - Ramp B	4	0	13-Apr-15	16-Apr-15
CARA060	Install Underdrain - 39+00 to 65+09 RT - Ramp B	3	0	17-Apr-15	21-Apr-15
CARA070	Place Base & Intermediate Asphalt - 39+00 to 65+09 RT - Ramp B	3	0	29-Apr-15	01-May-15
CARA080	Guardrail - 39+00 to 65+09 RT - Ramp B	2	0	04-May-15	05-May-15
CARA090	Finish Grade & Stabilize - 39+00 to 65+09 RT - Ramp B	2	0	06-May-15	07-May-15
CARA100	Construct Concrete Barrier - 39+00 to 65+09 RT - Ramp B	10	0	08-May-15	21-May-15
CARA110	Install Curb & Sidewalk - 39+00 to 65+09 RT - Ramp B	5	0	22-Apr-15	28-Apr-15
<b>Loop Ramp B</b>		<b>5</b>	<b>18</b>	<b>13-Feb-15</b>	<b>19-Feb-15</b>
CARB010	Excavate / Widen Roadway - 419+00 Fairfax Co. Pk. to 31+75 Loop...	5	18	13-Feb-15	19-Feb-15
<b>Rolling Road / Fairfax County Parkway</b>		<b>47</b>	<b>18</b>	<b>20-Feb-15</b>	<b>27-Apr-15</b>
CARD010	Demo/Excavate for Widening - Median - Fairfax Co.Parkway/Rollin...	10	18	20-Feb-15	05-Mar-15
CARD020	Finegrade Subgrade - Median - Fairfax Co.Parkway/Rolling Rd.	2	18	06-Mar-15	09-Mar-15
CARD030	Place Subbase - Median - Fairfax Co.Parkway/Rolling Rd.	3	18	10-Mar-15	12-Mar-15
CARD040	Install Underdrain - Median - Fairfax Co.Parkway/Rolling Rd.	3	18	13-Mar-15	17-Mar-15
CARD050	Place Base & Intermediate Asphalt - Median - Fairfax Co.Parkway/...	3	19	18-Mar-15	20-Mar-15
CARD060	Construct Median - Median - Fairfax Co.Parkway/Rolling Rd.	25	18	23-Mar-15	27-Apr-15
<b>Shared Use Path</b>		<b>9</b>	<b>5</b>	<b>04-May-15</b>	<b>14-May-15</b>
CARP010	Excavate - Shared Use Path	2	5	04-May-15	05-May-15
CARP020	Finegrade Subgrade - Shared Use Path	1	5	06-May-15	06-May-15
CARP030	Place Subbase - Shared Use Path	1	5	07-May-15	07-May-15
CARP040	F/R/P Concrete - Shared Use Path	5	5	08-May-15	14-May-15
<b>Retaining Walls</b>		<b>56</b>	<b>5</b>	<b>13-Feb-15</b>	<b>01-May-15</b>
<b>Retaining Wall A</b>		<b>18</b>	<b>5</b>	<b>08-Apr-15</b>	<b>01-May-15</b>
CAWA01	Excavate & Construct - Retaining Wall A - Shared-use Path	15	5	08-Apr-15	28-Apr-15
CAWA02	Backfill - Retaining Wall A - Shared-use Path	3	5	29-Apr-15	01-May-15
<b>Retaining Wall B</b>		<b>22</b>	<b>0</b>	<b>09-Mar-15</b>	<b>07-Apr-15</b>
CAWB01	Excavate & Construct - Retaining Wall B - Shared-use Path & Ram...	18	0	09-Mar-15	01-Apr-15
CAWB02	Backfill - Retaining Wall B - Shared-use Path & Ramp B	3	0	02-Apr-15	07-Apr-15
<b>Retaining Wall D</b>		<b>29</b>	<b>9</b>	<b>13-Feb-15</b>	<b>25-Mar-15</b>
CAED010	Excavate & Construct - Retaining Wall D - Ramp B	24	0	13-Feb-15	18-Mar-15
CAWD02	Backfill - Retaining Wall D - Ramp D	5	8	19-Mar-15	25-Mar-15
<b>Phase 2 Construction</b>		<b>77</b>	<b>0</b>	<b>26-May-15</b>	<b>09-Sep-15</b>
<b>Roadway</b>		<b>77</b>	<b>0</b>	<b>26-May-15</b>	<b>09-Sep-15</b>
<b>Loop Ramp B</b>		<b>36</b>	<b>14</b>	<b>26-May-15</b>	<b>14-Jul-15</b>
CBRB010	Clear & Grub - 31+75 to 43+48 RT - Loop Ramp B	2	0	26-May-15	27-May-15
CBRB020	Excavate / Widen Roadway - 31+75 to 43+48 RT - Loop Ramp B	16	0	28-May-15	18-Jun-15
CBRB030	Install Storm Drainage - 31+75 to 43+48 RT - Loop Ramp B	3	13	19-Jun-15	23-Jun-15
CBRB035	Install Electrical Conduit - 31+75 to 43+48 RT - Loop Ramp B	4	12	19-Jun-15	24-Jun-15
CBRB040	Finegrade Subgrade - 31+75 to 43+48 RT - Loop Ramp B	3	12	25-Jun-15	29-Jun-15

TASK filter: Near Critical Less than 20day Float.

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish
CBRB050	Place Stone Base - 31+75 to 43+48 RT - Loop Ramp B	4	13	30-Jun-15	06-Jul-15
CBRB060	Install Underdrain - 31+75 to 43+48 RT - Loop Ramp B	3	14	07-Jul-15	09-Jul-15
CBRB070	Place Base & Intermediate Asphalt - 31+75 to 43+48 RT - Loop Ra...	3	14	10-Jul-15	14-Jul-15
<b>Fairfax County Parkway</b>		<b>37</b>	<b>19</b>	<b>24-Jun-15</b>	<b>13-Aug-15</b>
CBRC010	Demo / Excavate for Widening - 418+21 to 419+00 - Fairfax County...	5	18	24-Jun-15	30-Jun-15
CBRC020	Install Storm Drainage - 418+21 to 419+00 - Fairfax County Parkway	2	18	01-Jul-15	02-Jul-15
CBRC030	Finegrade Subgrade - 418+21 to 419+00 - Fairfax County Parkway	1	18	06-Jul-15	06-Jul-15
CBRC040	Place Stone Base - 418+21 to 419+00 - Fairfax County Parkway	1	18	07-Jul-15	07-Jul-15
CBRC050	Place Base & Intermediate Asphalt - 418+21 to 419+00 - Fairfax Co...	1	18	08-Jul-15	08-Jul-15
CBRC060	Demo / Excavate Existing Ramp - Fairfax County Parkway	25	18	09-Jul-15	12-Aug-15
CBRC070	Finish Grade & Stabilize - 418+21 to 419+00 - Fairfax County Park...	1	18	13-Aug-15	13-Aug-15
<b>Fairfax County / Franconia-Springfield Parkways</b>		<b>59</b>	<b>0</b>	<b>19-Jun-15</b>	<b>09-Sep-15</b>
CBRF010	Excavate / Widen Roadway - 117+86 to 125+79 WB LT - Fairfax C...	16	0	19-Jun-15	13-Jul-15
CBRF020	Install Storm Drainage - 117+86 to 125+79 WB LT - Fairfax Co./Fra...	3	0	14-Jul-15	16-Jul-15
CBRF030	Finegrade Subgrade - 117+86 to 125+79 WB LT - Fairfax Co./Fran...	5	0	17-Jul-15	23-Jul-15
CBRF040	Place Stone Base - 117+86 to 125+79 WB LT - Fairfax Co./Fran.-S...	4	0	24-Jul-15	29-Jul-15
CBRF050	Install Underdrain - 117+86 to 125+79 WB LT - Fairfax Co./Fran.-S...	3	0	30-Jul-15	03-Aug-15
CBRF060	Place Base & Intermediate Asphalt - 117+86 to 125+79 WB LT - Fa...	3	0	04-Aug-15	06-Aug-15
CBRF070	Guardrail - 117+86 to 125+79 WB LT - Fairfax Co./Fran.-Spring. Pa...	2	18	07-Aug-15	10-Aug-15
CBRF080	Finish Grade & Stabilize - 117+86 to 125+79 WB LT - Fairfax Co./F...	3	0	04-Sep-15	09-Sep-15
<b>Bridges</b>		<b>20</b>	<b>0</b>	<b>07-Aug-15</b>	<b>03-Sep-15</b>
<b>Fairfax County Parkway Bridge</b>		<b>20</b>	<b>0</b>	<b>07-Aug-15</b>	<b>03-Sep-15</b>
<b>Substructure</b>		<b>20</b>	<b>0</b>	<b>07-Aug-15</b>	<b>03-Sep-15</b>
CBBA	Install Protection Barrier - Pier 1 - Fairfax County Parkway Bridge	10	0	07-Aug-15	20-Aug-15
CBBA	Install Protection Barrier - Pier 2 - Fairfax County Parkway Bridge	10	0	21-Aug-15	03-Sep-15
<b>Phase 3 Construction</b>		<b>108</b>	<b>20</b>	<b>11-Sep-15</b>	<b>09-Feb-16</b>
<b>Roadway</b>		<b>108</b>	<b>20</b>	<b>11-Sep-15</b>	<b>09-Feb-16</b>
<b>Ramp B</b>		<b>26</b>	<b>16</b>	<b>02-Oct-15</b>	<b>06-Nov-15</b>
CCRA010	Excavate / Widen Roadway - 39+00 to 65+09 LT - Ramp B	10	0	02-Oct-15	15-Oct-15
CCRA020	Install Storm Drainage - 39+00 to 65+09 LT - Ramp B	3	14	16-Oct-15	20-Oct-15
CCRA030	Finegrade Subgrade - 39+00 to 65+09 LT - Ramp B	3	14	21-Oct-15	23-Oct-15
CCRA040	Place Stone Base - 39+00 to 65+09 LT - Ramp B	4	14	26-Oct-15	29-Oct-15
CCRA050	Install Underdrain - 39+00 to 65+09 LT - Ramp B	3	14	30-Oct-15	03-Nov-15
CCRA060	Place Base & Intermediate Asphalt - 39+00 to 65+09 LT - Ramp B	3	14	04-Nov-15	06-Nov-15
<b>Loop Ramp B</b>		<b>15</b>	<b>0</b>	<b>11-Sep-15</b>	<b>01-Oct-15</b>
CCRB010	Excavate / Widen Roadway - 31+75 to 43+48 LT - Loop Ramp B	15	0	11-Sep-15	01-Oct-15
<b>Fairfax County / Franconia-Springfield Parkways</b>		<b>83</b>	<b>20</b>	<b>16-Oct-15</b>	<b>09-Feb-16</b>
CCRF010	Demo / Excavate for Widening - Median - Fairfax Co./Fran. Spring. ...	20	0	16-Oct-15	12-Nov-15
CCRF020	Finegrade Subgrade - Median - Fairfax Co./Fran. Spring. Parkways	2	0	13-Nov-15	16-Nov-15
CCRF030	Place Subbase - Median - Fairfax Co./Fran. Spring. Parkways	5	0	17-Nov-15	23-Nov-15
CCRF040	Place Base & Intermediate Asphalt - Median - Fairfax Co./Fran. Sprin...	3	0	24-Nov-15	30-Nov-15
CCRF050	Construct Median - Median - Fairfax Co./Fran. Spring. Parkways	30	20	01-Dec-15	19-Jan-16
CCRF060	Construct Concrete Median Barrier - Median - Fairfax Co./Fran. Sprin...	15	20	20-Jan-16	09-Feb-16
<b>Phase 4 Construction</b>		<b>28</b>	<b>7</b>	<b>01-Mar-16</b>	<b>07-Apr-16</b>
<b>Roadway</b>		<b>28</b>	<b>7</b>	<b>01-Mar-16</b>	<b>07-Apr-16</b>
CDR0010	Mill Project	3	7	01-Mar-16	03-Mar-16

TASK filter: Near Critical Less than 20day Float.

Activity ID	Activity Name	Original Duration	Total Float	Start	Finish
CDR0020	Place Final Surface Asphalt	5	7	04-Mar-16	10-Mar-16
CDR0050	Install Permanent Signalization	20	7	11-Mar-16	07-Apr-16
CDR0060	Install Lighting	10	17	11-Mar-16	24-Mar-16

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**Appendix 4.1.7**  
**Debarment Certification**

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

**Project No.: 0286-029-947, PE101, RW201, C501, B623**

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.



Signature

12/12/13  
Date

VP/GM  
Title

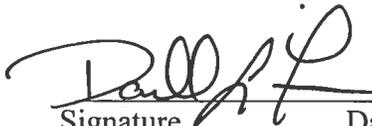
American Infrastructure-VA, Inc.  
Name of Firm

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

**Project No.: 0286-029-947, PE101, RW201, C501, B623**

- 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	<u>10/25/13</u> Date	<u>General Manager / Principal</u> Title
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Rinker Design Associates, P.C.  
Name of Firm

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

**Project No.: 0286-029-947, PE101, RW201, C501, B623**

- 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.

 10-7-13

Signature

Date

Title

Volkert, Inc.

Name of Firm

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

**Project No.: 0286-029-947, PE101, RW201, C501, B623**

- 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>10/25/2013</u>	<u>Vice President</u>
Signature	Date	Title

DMY Engineering Consultants, LLC  
Name of Firm



**American Infrastructure-VA, Inc.**  
301 Concourse Blvd.  
Suite 300  
Glen Allen, VA 23059  
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**Rinker Design Associates, P.C.**  
301 Concourse Blvd.  
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