

ROLLING ROAD/ FRANCONIA-SPRINGFIELD PARKWAY INTERCHANGE IMPROVEMENTS

A Design-Build Project

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



Contract ID No: C00100391DB61
State Project No: 0286-029-947
PE101, RW201, C501, B623

8211 Washington Boulevard
Jessup, MD 20794-0356
P. 410.799.3577
F. 410.799.5483
gandricos@chconstr.com
www.cherryhillconstruction.com



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
Letter of Submittal and Attachments Checklist	Attachment 4.0.1.1	Section 4.0.1.1	no	N/A
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	no	Follows Checklist Attachment 4.0.1.1
Letter of Submittal	NA	Sections 4.1		Tab Divider Section 4.1
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	yes	LOS - 1
Offeror's official representative information	NA	Section 4.1.1	yes	LOS - 1
Authorized representative's original signature	NA	Section 4.1.1	yes	LOS - 1
Declaration of intent	NA	Section 4.1.2	yes	LOS - 1
120 day declaration	NA	Section 4.1.3	yes	LOS - 1
Point of Contract for the Offeror	NA	Section 4.1.4	yes	LOS - 1-2
Principal Officer information	NA	Section 4.1.5	yes	LOS - 2
Final Completion Date	NA	Section 4.1.6	yes	LOS - 2
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.7	no	Follows Letter of Submittal
Written statement of Proposed Project Concept Plans and Proposed Limits of Construction		Section 4.1.8	yes	LOS - 2
Written statement of percent DBE participation	NA	Section 4.1.9	yes	LOS - 2
DBE subcontracting narrative	NA	Section 4.1.9	yes	LOS - 2

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
Attachments to the Letter of Submittal	NA	Section 4.2		Tab Divider Section 4.2
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 4.2.1	yes	1
Organizational structure with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1.1	yes	1
Key personnel with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1.2	yes	1-2
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1.3	yes	2-3
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1.4	yes	4-5
Proposal Schedule	NA	Section 4.2.2.1	no	Follows Proposal Schedule Narrative
Proposal Schedule Narrative	NA	Section 4.2.2.2	yes	6-10
Electronic Format (CD-ROM) of Schedule, Narrative and Source Documents	NA	Section 4.2.2.2	no	Attached to Section 4.2 Tab Divider

* **Modifications to checklist to match 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)

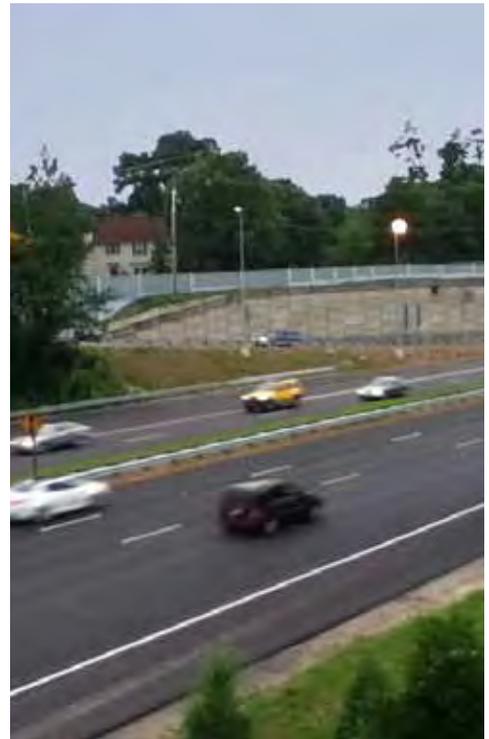
SIGNATURE
 Gregory M. Andricos, V.P./Gen. Manager

11/22/13

DATE

4.1

Letter of Submittal





December 12, 2013

Mr. Stephen D. Kindy, P.E.
Alternate Project Delivery Office
Virginia Department of Transportation (VDOT)
1401 East Broad Street
Richmond, Virginia 23219

RE: **4.1 LETTER OF SUBMITTAL**
Rolling Road/Franconia-Springfield Parkway Interchange Improvements, Fairfax County, VA
(A Design-Build Project)
From: 0.30 Miles West of Rolling Road / **To:** 0.34 Miles East of Rolling Road
From: 0.21 Miles South of Fairfax County Pkwy. / **To:** 0.18 Miles North of Fairfax County Pkwy.
Contract ID No: C00100391DB61 / State Project No: 0286-029-947, PE101, RW201, C501, B623

Dear Mr. Kindy:

Cherry Hill Construction, Inc. (CHC) a Tutor Perini Company is pleased to submit one (1) copy of the Letter of Submittal and Attachments, bearing original signatures and one (1) CD-ROM containing the entire proposal in a single cohesive Adobe PDF file to the VDOT to provide Design-Build (D-B) services for the Rolling Road/Franconia-Springfield Parkway Interchange Improvements project in Fairfax County, VA.

CHC and our lead designer Johnson, Mirmiran & Thompson, Inc. (JMT) have carefully reviewed the Request for Proposals (RFP) and Technical Requirements; attended the Mandatory Pre-Proposal and Utility Meetings on 9/16/2013; Proprietary Meeting on 10/23/2013. Our team has also received and reviewed the Modified Minutes dated 11/15/2013; Addendum 1 dated 11/21/2013; and visited the project site on multiple occasions in developing this proposal.

4.1 LETTER OF SUBMITTAL REQUIREMENTS

.1 Full Legal Name and Address of the Offeror / Authorized Representative's Signature

Cherry Hill Construction, Inc.
8211 Washington Boulevard
Jessup, Maryland 20794

This Submittal is signed in ink by an authorized representative of Cherry Hill Construction, Inc.

- .2 Declaration of Intent** - Cherry Hill Construction, Inc. declares its intent, if selected, to enter into a contract with VDOT for the Project in accordance with the terms of this RFP.
- .3 120 Day Declaration** - Cherry Hill Construction, Inc. as the offeror represented by this Proposal understands that this Proposal will remain in full force and effect for one hundred twenty (120) days after the Letter of Submittal and Attachments are submitted to VDOT.
- .4 Point of Contact for the Offeror** - The primary point of contact and authorized representative for the CHC Team for all concerns related to this SOQ submittal is our D-B Project Manager (DBPM), **Mr. Gregory M. Andricos, P.E.**, CHC's Vice President/ General Manager. He can be reached throughout this project through one of the following methods:



Cherry Hill Construction, Inc.
8211 Washington Boulevard
Jessup, MD 20794

T 410-799-2377 F 410-799-5548
M 443-250-1194
E gandricos@chconstr.com

- .5 Principal Officer for the Offeror** - The Principal Officer is **Mr. Ali Catik, President of Cherry Hill Construction, Inc.** Mr. Catik can be reached by one of the following methods:

Cherry Hill Construction, Inc.
8211 Washington Boulevard
Jessup, MD 20794

T 410-799-3577 F 410-799-5483
E acatik@perini.com

- .6 Final Completion Date** - The CHC/JMT Team shall comply with the proposed date set forth in Section 2.3.1 of May 16, 2016 for final completion.
- .7 Certification Regarding Debarment Forms** - CHC has executed Attachment 11.8.6 (a) – Certification Regarding Debarment Form Primary Covered Transactions form. All subcontractors identified in the Team’s organization chart have executed Attachment 11.8.6 (b) - Certification Regarding Debarment Form Lower Tier Covered Transactions. All debarment forms are in the Appendix of this proposal.
- .8 Design Criteria Table and Limits of Construction** - The CHC/JMT Team’s proposed project concept that is included with this Letter of Submittal 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. We also certify that the proposed limits of construction including 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 and the CHC/JMT Team design concept does not require Design Exception and/or Design Waivers unless they are identified or included in the RFP or Addendum.
- .9 Commitment to Achieving the DBE Participation Goal** - The CHC/JMT Team is committed to achieving the 14% DBE participation goal for the entire value of the contract. Additionally, our Team’s formal subcontracting program will ensure maximum use of SWaM firms as required by the Governor’s Executive Order No. 33.

We look forward to the opportunity to perform the engineering and construction services for this contract. CHC and JMT are confident that our team will provide the overall “Best Value: and produce a high quality and environmentally sustainable project, safely, on schedule and within budget.

Very truly yours,

CHERRY HILL CONSTRUCTION, INC.

Bernard P. Beauchemin
Vice President of Estimating

Certifications Regarding Debarment Forms

Attachments 11.8.6 (a) and (b)



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.

	<u>11/6/13</u>	<u>Vice President Estimating</u>
Signature	Date	Title
Bernard P. Beauchemin		

Cherry Hill Construction, 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.

Robert Mallefer 10/18/13 SENIOR VICE PRESIDENT
Signature Date Title

JOHNSON, MIRMIRAN & THOMPSON
Name of Firm

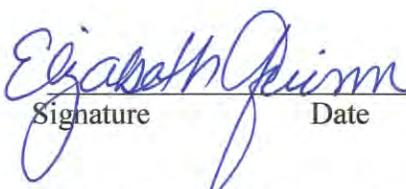
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

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.

	October 15, 2013	President
Signature	Date	Title
<hr/>		
Quinn Consulting Services, 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

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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.

	10/11/13	VICE PRESIDENT
Signature	Date	Title

DMY Engineering Consultants

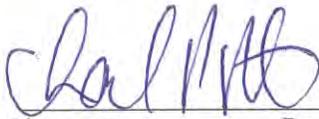
Name of Firm

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

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

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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.



Signature

Date

10-21-13

Vice President

Title

Specialized Engineering, Inc.

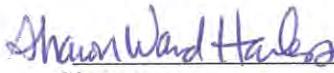
Name of Firm

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

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

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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.

	October 14, 2013	Vice President
Signature	Date	Title

EEE Consulting, 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.

[Handwritten Signature] 10/11/13 President
Signature Date Title

Sharp & Company, 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.

LMK 10-14-2013 Appraiser
Signature Date Title

V. Lynn Kelsey
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

10/14/2013

Date

Managing Partner

Title

Appraisal Review Specialists, LLC

Name of Firm

4.2

Attachments to the Letter of Submittal



4.2 Attachments to the Letter of Submittal

4.2.1 Confirmation of Accuracy of the Organizational Chart and Key Personnel for the SOQ

The CHC/JMT Team confirms that the information provided in the SOQ submittal remains true and accurate and there are no additions or updates to our organization structure, key personnel, organizational chart and organizational chart narrative listed below.

4.2.1.1 Organizational Structure (No additions or updates)

The CHC/JMT Team			
	Cherry Hill Construction, Inc. Offeror and Lead Contractor <i>VDOT Prequalified Vendors</i> <i>No. C090</i>		Johnson, Mirmiran & Thompson, Inc. Lead Designer <i>VDOT Prequalified Right-of-Way Contracting Consultant</i>
	Quinn Consulting Services, Inc. Quality Assurance Manager <i>DBE Cert. No. 626289</i> <i>SWaM Cert. No. 626289</i>		DMY Engineering Consultants, LLC Quality Control Mgr./Geotech. Eng. Materials and Laboratory Testing <i>DBE Cert. No. MWAA DB2011-0012-2014</i> <i>SWaM No. 684372</i>
	DIW Group, Inc. Specialized Engineering Materials and Laboratory Testing <i>SWaM Cert. No. 681526</i>		EEE Consulting, Inc. Environmental and Permitting <i>SWaM Cert. No. 7052</i>
	Sharp & Company, Inc. Public Involvement/Relations <i>DBE Cert. No. MWAA DB2007-0011-2010</i> <i>SWaM Cert. No. 669711</i>	V. Lynn Kelsey	V. Lynn Kelsey Real Estate Appraisals <i>SWaM Cert. No. 673682</i> APPROVED BY VDOT TO PERFORM APPRAISAL SERVICES
	Appraisal Review Specialists, LLC APPROVED BY VDOT TO PERFORM APPRAISAL REVIEW SERVICES	Real Estate Appraisal Reviews	

4.2.1.2 Key Personnel (No additions or updates)

.1 - Design-Build Project Manager (DBPM) - Mr. Gregory M. Andricos, P.E. (CHC) - Mr. Andricos has 21+ years of significant experience and expertise in D-B projects. He is a registered VA Professional Engineer and is a certified Virginia Department of Conservation & Recreation (DCR) Responsible Land Disturber (RLD) and VDOT Erosion and Sediment Control Contractor Certification (ESCCC). As the company's VP/GM he is responsible for managing all design and construction operations performed by CHC. Mr. Andricos has provided identical services on four (4) D-B projects in Northern VA and DC. For his efforts as DBPM on the CHC/JMT Team's Fairfax County Parkway Phases I/II and IV D-B project, **he received a "Star Partner" award for his exceptional dedication, teamwork, and professionalism in support of the project's goals by the NGA and USACE.** He will be the single Point of Contact for VDOT and the D-B Team and will be responsible for the overall project design, quality management and contract administration.

4.2 Attachments to the Letter of Submittal

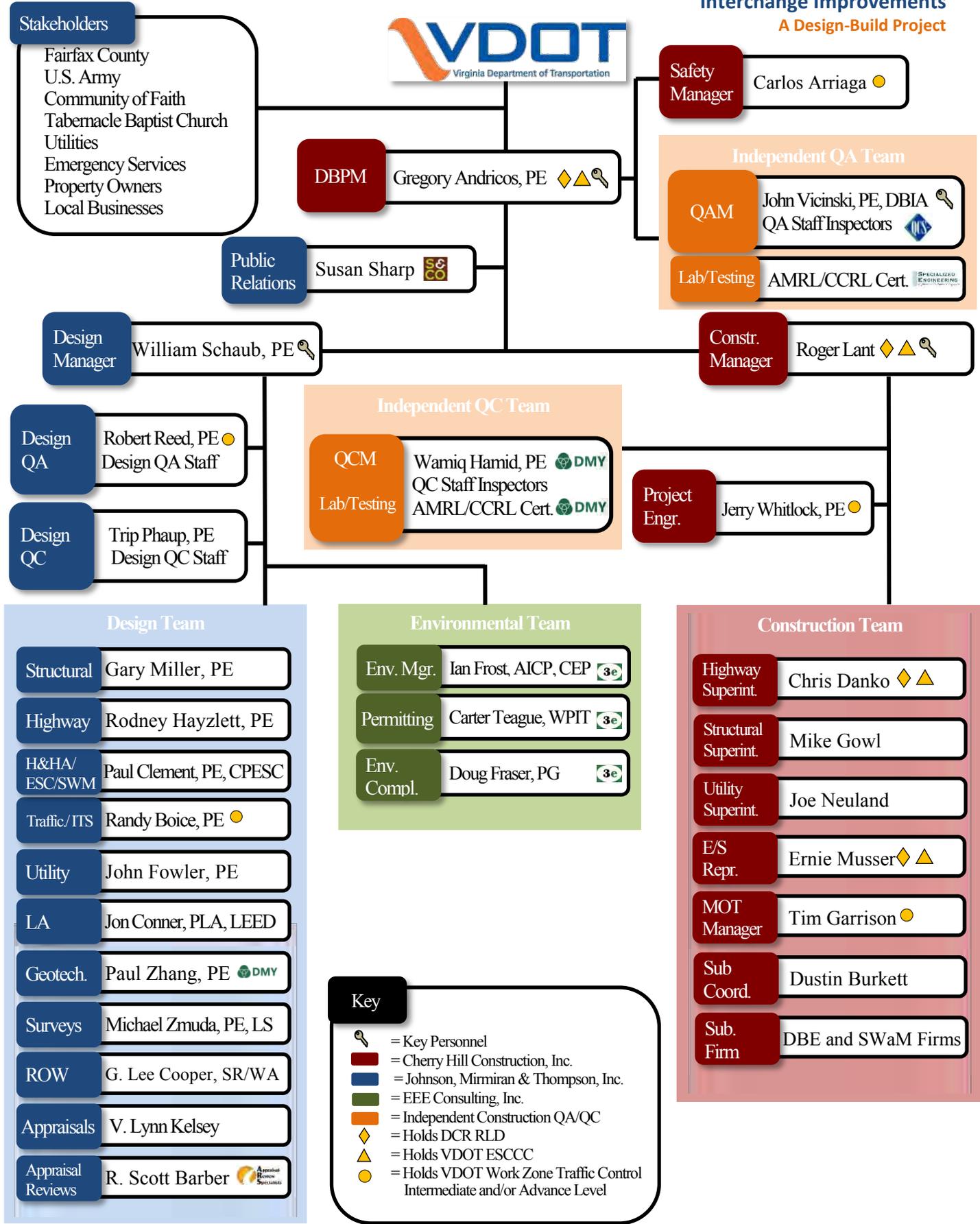
- .2 - Quality Assurance Manager (QAM) – Mr. John K. Vicinski, P.E., DBIA (QCS) - Mr. Vicinski** has nearly 30 years of construction management experience including 10+ D-B and 20+ VDOT projects as QAM; and is a registered VA Professional Engineer and a certified VA DCR ESC Inspector working out of QCS’s Chantilly, VA office. As an Independent QAM, Mr. Vicinski will work with his Quality Assurance (QA) team to perform independent QA inspection and testing on all materials used and work performed on the project including monitoring of CHC’s Quality Control (QC) Program. He will ensure that all work and materials, testing and sampling are performed in conformance with the contract requirements and meets or exceeds the “approved for construction” plans and specifications. Mr. Vicinski will report directly to the Design-Build Project Manager.
- .3 - Design Manager (DM) – Mr. William E. Schaub, P.E. (JMT) - Mr. Schaub** has 30+ years of experience in planning, designing and managing construction document preparation of numerous highway and bridge projects. He has provided the identical roles on several D-B projects in Northern VA, DC and MD. For his efforts as Design Manager on the CHC/JMT Team’s Fairfax County Parkway Phases I/II and IV D-B project, Mr. Schaub **received a “Star Partner” award for his exceptional dedication, teamwork, and professionalism in support of the project's goals by the NGA and USACE.** Mr. Schaub will be responsible for coordinating the individual design disciplines and ensuring the overall project design is in conformance with the contract requirements. He will also establish and oversee the design QA/QC program. In addition, he will coordinate reviews with the Design-Build Project Manager and construction staff to ensure constructability of the project. Mr. Schaub is a Virginia registered Professional Engineer.
- .4 - Construction Manager (CM) – Mr. Roger Lant (CHC) - Mr. Lant** has 16+ years of experience and extensive background in means and methods, special equipment, construction engineering, structural design engineering and project management for public bridge and highway projects. He is a certified Virginia DCR RLD and VDOT ESCCC. He has a proven track record for exceeding client schedule expectations. Mr. Lant successfully performed the same duties on the CHC/JMT Team’s D-B project for the Fairfax County Parkway Phases I/II and IV D-B project. For his efforts as CM on the Parkway D-B project, Mr. Lant **received a “Star Partner” award for his exceptional dedication, teamwork, and professionalism in support of the project's goals by the NGA and USACE.** He will be the CM for the duration of construction operations and will be responsible for managing the construction operations and process including all construction QC activities. He will report directly to the DBPM.

4.2.1.3 Organizational Chart (No additions or updates)

The organizational chart image provided on the next page shows the “chain of command” while identifying major functions to be performed by the CHC/JMT Team. The organizational chart also shows the reporting relationships of Key Personnel responsible for the management of design, construction, and QA/QC activities. The CHC/JMT Team has clearly defined roles and relationships.

The team organization is optimized to present clear, logical, reporting relationships to manage the design and construction of the Rolling Road/Franconia-Springfield Parkway Interchange Improvements project, while maintaining distinct responsibilities and project controls. The project organization is organized to facilitate timely and effective communication among all personnel, regardless of position. Practical lines of communication run between design, construction, and the independent QA/QC support staff, with the Design-Build Project Manager ensuring all levels function as a team. This organization is a successful model used by CHC and JMT on past and present projects.

4.2 Attachments to the Letter of Submittal



4.2.1.4 Organizational Chart Narrative (No additions or updates)

Design-Build Project Manager (DBPM) - The CHC/JMT Team organizational chart starts with VDOT at the pinnacle of the hierarchy. The CHC/JMT Team recognizes that all final decisions rest with VDOT. The Team's primary interface with VDOT will be through the **DBPM, Mr. Gregory Andricos, P.E.** In accordance with sound management practice and VDOT guidance, the DBPM serves in the most crucial role, one that defines success for all aspects of the project. The DBPM is the principal conduit for communication with VDOT, and also directly controls the design, construction, quality assurance and public outreach functions. One feature of the CHC/JMT Team proposal is the independence of the key support staff and specialty professionals whose role is to assure that the highest levels of quality and safety is maintained in both the design and construction phases of the project.

The organizational chart further depicts that the main production staff interfaces with the DBPM will be the Design Manager (DM), the Construction Manager (CM), and the Independent Quality Assurance Manager (QAM) allowing effective communication among the Key Personnel. The DM, the CM, and the QAM will support the DBPM as Point of Contact with VDOT in their respective areas of expertise. The DBPM will rely on the DM, the CM, and the QAM to effectively coordinate their individual Team elements and will use these Key Personnel to communicate to all Team members during design and construction. These personnel serve important support roles for the D-B Team and provide specific areas of expertise to benefit the entire project:

Safety Manager - Mr. Carlos Arriaga of CHC will be responsible for planning, executing, evaluating, and monitoring all aspects of the Safety Program in coordination with the DBPM, the CM, and field staff. Similar to QA, the safety group reports outside of the construction operations chain of command and directly to the DBPM.

Design Manager (DM) - The CHC/JMT organizational chart clearly defines that all design disciplines including the Lead Structural Engineer for the project will report to the **DM, Mr. William Schaub, P.E.** The approach to staffing these disciplines hinges on the concept of matching the requirements of this project to the experience and depth of knowledge of staff best suited to fulfill these specific requirements. While the majority of the disciplines will be covered by JMT professionals, the team does include several specialty subconsultants who will augment the Team and report directly to the DM. The DM will report directly to the DBPM. During the design phase of the project, he will interface directly with each of the discipline leaders, whether that individual is a JMT staff member or a subconsultant contracted with JMT. Mr. Schaub will also establish and oversee the QA/QC program for design. The responsibilities of the QA/QC Team will be separated between Design QC and QA. The Design QA program will be independent of Design QC and will be managed by the Design QA Manager, Mr. Robert Reed, P.E., who will interface and report directly to the DM. Mr. Reed has provided Design QA services on numerous projects during his engineering career. The Design QC Manager, Mr. Trip Phaup, P.E. will report directly to the DM and oversee independent QC of the design and will evaluate and compare the design to the established design criteria. In general, the Design QC Team will evaluate whether the designer appropriately assessed design issues and problems, will provide design checks, will verify that designers applied the correct analysis techniques, and will ensure qualified personnel are assigned to the task. The Design QA Team will address whether the solution is practical and cost effective, whether the design is appropriate and provide oversight to ensure the Design QA/QC program is functioning adequately.

The Design QC Team will be staffed with individual discipline specific Design QC Managers that are not involved in the original design process. They will report to the Design QC Manager. Reviewers that are

4.2 Attachments to the Letter of Submittal

independent from day-to-day design activities ensure that the QC Team is truly providing a fresh set of eyes to plan development. The independent QC reviews will determine whether the design and plans conform to the established design criteria and design processes. In general, the QC Team will review math and engineering computations; check technical accuracy; verify conformance with contract requirements; review form, content, and spelling; and verify coordination with other design disciplines and the project sequence of construction. The following subconsultants will provide specialty services and will report directly to the DM: **EEE Consulting, Inc. (EEE)** - Will provide environmental compliance monitoring and compliance activities, permitting coordination, and acquisition; and **DMY Engineering Consultants, LLC (DMY)** - Will provide soils sampling and testing and geotechnical engineering services for this project. **JMT is a VDOT prequalified Right-of-Way (ROW) contracting consultant**, and will manage and provide all ROW acquisition services for the project. During the appraisal/appraisal review process, JMT will engage the services of **V. Lynn Kelsey** and **Appraisal Review Specialists, LLC** both are VA DPOR Certified Real Estate Appraisers and approved by VDOT.

Public Involvement/Relations – **Ms. Susan Sharp** of **Sharp & Company, Inc. (S&CO)** will provide public involvement/relations and assist the Team with stakeholder coordination and public participation activities for the project. The DBPM, in conjunction with S&CO, will work at the direction of VDOT to develop and implement a public participation program which may include conducting both public information and individual one-on-one meetings, developing and updating a project website, preparing monthly project mailers, and securing media coverage.

Construction Manager (CM) - **Mr. Roger Lant** is the CM for the project who will oversee all major construction activities and will manage the Construction Quality Control (QC) program, which is the same role he had on our Fairfax County Parkway Phases I/II and IV D-B project. The Superintendents, MOT Manager and Construction Quality Control Manager (QCM) will all report directly to the CM. His responsibilities will include CPM schedule development and updating, resource planning and allocation (materials, labor, and equipment), budgetary and cost control, subcontractor scheduling, MOT, ESC, and shop drawing review. The CM will report directly to the DBPM. The CM will also be responsible for Construction QC activities including Construction QC testing and off-site materials sampling and testing. The Independent Construction QCM will report directly to the CM.

Independent Quality Control Manager (QCM) - **DMY Engineering Consultants, LLC (DMY)** is the Team's Independent Construction QC firm for this project. DMY commits **Mr. Wamiq Hamid, P.E.** to serve as the QCM who will report directly to the CM. He has extensive experience in construction services and field/laboratory testing for soil, aggregate, concrete, asphalt, and other construction materials. DMY owns and operates AMRL/CCRL certified laboratories to meet demanding quality and schedule simultaneously for multiple challenging projects, as well as in-house full size drill rigs to meet demanding project schedules with quality work. DMY has worked on multiple VDOT roadway projects.

Independent Quality Assurance Manager (QAM) - **Quinn Consulting Services, Inc. (QCS)** is the Team's Independent Construction QA firm for this project. QCS commits **Mr. John Vicinski, P.E., DBIA** to serve as the QAM who will report directly to the DBPM and attend all project meetings. He will oversee a QA staff including a lead senior inspector, project inspectors, and a records administrator, as well as oversee the activities of the independent AMRL/CCRL certified off-site materials sampling and testing laboratory, **Specialized Engineering**. The QAM will have the authority to suspend field activities in the event QA tasks or issues are not complete or construction work is found to be non-conforming.

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Proposed Schedule, Narrative, and Electronic Format



PROPOSAL SCHEDULE

Activity ID	Activity Name	Original Duration	Remaining Duration	Calendar	Start	Finish	Total Float	2014												2015					2016												
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Rolling Road/Franconia-Springfield Parkway Interc								628	628		12-19-13	05-16-16	0																								
Schedule Milestones								628	628		12-19-13	05-16-16	0																								
0	Notice of intent to Award	0	0	Calendar Days	12-19-13*		0	Notice of intent to Award																													
0.1	Contractor Deliver Required Documents	15	15	Calendar Days	12-19-13	01-02-14	12	Contractor Deliver Required Documents																													
1	CTB Approval/Notice to award	0	0	Calendar Days	01-15-14*		0	CTB Approval/Notice to award																													
2	Design-Build Contract Execution	0	0	Calendar Days	02-12-14*		0	Design-Build Contract Execution																													
3	Contract NTP	0	0	Calendar Days	02-14-14*		0	Contract NTP																													
245	Substantial Completion (Interim Milestone)	0	0	Calendar Days		04-18-16	0																														
246	Punch List	20	20	Standard	04-19-16	05-16-16	0																														
247	Final Completion	0	0	Calendar Days		05-16-16	0																														
Design, Right-of-Way & Permitting								628	628		12-19-13	05-16-16	0																								
QA/QC Plan for Design								51	51		02-14-14	04-25-14	1																								
4	Prepare Quality Assurance and Quality Control (QA/QC) Plan	10	10	Standard	02-14-14	02-28-14	1	04-25-14, QA/QC Plan for Design																													
5	Submit QA/QC Plan - Present to VDOT	1	1	Standard	03-07-14	03-10-14	1	Prepare Quality Assurance and Quality Control (QA/QC) Plan																													
6	VDOT Review of QA/QC	21	21	Calendar Days	03-10-14	03-30-14	1	Submit QA/QC Plan - Present to VDOT																													
7	Revise and Resubmit QA/QC Plan	5	5	Standard	03-31-14	04-04-14	1	VDOT Review of QA/QC																													
8	QA/QC Plan Approval	21	21	Calendar Days	04-05-14	04-25-14	3	Revise and Resubmit QA/QC Plan																													
Scope Validation Period								86	86		02-14-14	06-13-14	151																								
10	Scope Validation Investigations and Findings Report Submittal 90 Days from NTP	90	90	Calendar Days	02-14-14	05-14-14	213	06-13-14, Scope Validation Period																													
11	Scope Validation Review by VDOT and Discussions	30	30	Calendar Days	05-15-14	06-13-14	213	Scope Validation Investigations and Findings Report Submittal 90 Days from NTP																													
Develop & Submit Field Inspection/Right-of-Way (FI/RW), Line & Grade, LOD								60	60		04-07-14	06-30-14	1																								
12	Develop FI/RW Plans-30% Plans	45	45	Standard	04-07-14	06-06-14	1	06-30-14, Develop & Submit Field Inspection/Right-of-Way (FI/RW), Line & Grade, LOD																													
13	VDOT Review and Approved FI/RW	21	21	Calendar Days	06-07-14	06-27-14	3	Develop FI/RW Plans-30% Plans																													
14	FI/RW Plans Approved	0	0	Standard	06-30-14		1	VDOT Review and Approved FI/RW																													
Design Exceptions and Waivers								55	55		04-28-14	07-11-14	131																								
16	Complete Exception/Waiver Application & Submit	15	15	Standard	04-28-14	05-16-14	131	07-11-14, Design Exceptions and Waivers																													
17	Agency Review and Meeting if Required	21	21	Calendar Days	05-17-14	06-06-14	185	Complete Exception/Waiver Application & Submit																													
18	Update and Resubmit Exception/Waiver	10	10	Standard	06-09-14	06-20-14	131	Agency Review and Meeting if Required																													
19	Agency Review and Approval of Exception/Waiver	21	21	Calendar Days	06-21-14	07-11-14	185	Update and Resubmit Exception/Waiver																													
Supplemental Field Surveys								581	581		02-24-14	05-16-16	0																								
21	Prepare Property Owner Notification Letters for Survey	1	1	Standard	02-24-14	02-24-14	140	01-30-15, Utilities-Delineation, SUE																													
22	Supplemental Field Surveys	20	20	Standard	03-18-14	04-14-14	140	Prepare Property Owner Notification Letters for Survey																													
23	Stake Geotechnical Boring Locations	5	5	Standard	03-18-14	03-24-14	153	Supplemental Field Surveys																													
24	Prepare Updated Survey File	10	10	Standard	03-25-14	04-07-14	140	Stake Geotechnical Boring Locations																													
25	Set ROW Monumentation after Substantial Completion	20	20	Standard	04-19-16	05-16-16	0	Prepare Updated Survey File																													
Utilities-Delineation, SUE								245	245		02-24-14	01-30-15	186																								
27	Prepare Property Owner Notification Letters for Subsurface Utility Engineering (SUE)	1	1	Standard	02-24-14	02-24-14	315	01-30-15, Utilities-Delineation, SUE																													
28	Perform SUE Designations and Test Holes	20	20	Standard	03-18-14	04-14-14	315	Prepare Property Owner Notification Letters for Subsurface Utility Engineering (SUE)																													
29	Prepare Test Hole Data Sheets, UT 9's	15	15	Standard	03-25-14	04-14-14	315	Perform SUE Designations and Test Holes																													
30	Meet with VDOT Regional Utility Manager 45 days after NTP	1	1	Standard	06-30-14	06-30-14	255	Prepare Test Hole Data Sheets, UT 9's																													
31	Meet with Utility Owners	5	5	Standard	07-08-14	07-14-14	255	Meet with VDOT Regional Utility Manager 45 days after NTP																													
32	Determine Prior Rights, update UT9's	15	15	Standard	07-15-14	08-04-14	255	Meet with Utility Owners																													
33	Prepare Preliminary Utility Status Report due 120 days after NTP (120 calendar days=5/3/14)	11	11	Standard	12-26-14	01-09-15	186	Determine Prior Rights, update UT9's																													
34	Prepare and Submit Updated Subsurface Utility Information, UT9's	15	15	Standard	01-12-15	01-30-15	186	Prepare Preliminary Utility Status Report due 120 days after NTP (120 calendar days=5/3/14)																													
Utility Design (By Others)								149	179		08-05-14	04-10-15	186																								
36	Utility Design Starts	0	0	Standard	08-05-14		315	04-10-15, Utility Design (By Others)																													
37	Dominion Virginia Power Plan and Estimate	60	60	Standard	08-05-14	10-27-14	255	Utility Design Starts																													

█ Remaining Level of Effort █ Critical Remaining Work
█ Actual Work ◆ Milestone
█ Remaining Work ⇨ Summary

4.2.2.2 Proposal Schedule Narrative

Proposal Schedule Development

In accordance with the RFP documents, the CHC/JMT Team has provided a preliminary project schedule that identifies our plan for all phases of design and construction. The Project Schedule was developed using Primavera Project Management software P6™. The purpose of the schedule is to illustrate that key milestones for design, review and construction of this project as well as provide a schedule of activities, durations, relationships and calendar impacts to the planned execution of the contract. The schedule indicates our thorough understanding of the scope of work required to complete this project, our commitment to complete this project as safely and quickly as possible and our understanding of the VDOT’s Design-Build process.

In order to effectively and efficiently manage this project we are proposing to schedule and track work based on a Work Breakdown Structure (WBS) which focuses on major areas of the projects Design and Construction.

Project Milestones

Milestone	Date
Notice of Intent to Award	12-19-13
Commonwealth Transportation Board Approval	01-15-14
Design-Build Contract Execution	02-12-14
Notice to Proceed	02-14-14
Start Construction	04-20-15
Substantial Completion	04-18-16
Final Project Completion	05-16-16

Work Breakdown Structure

Level 1 of the WBS groups the schedule activities as follows:

- 01. Project Milestones** – This section provides easy review of the project status.
- 02. Design, Right-of-Way (ROW) and Permitting** – This section includes preliminary engineering services, plan development, QA/QC reviews, submittal milestones and VDOT reviews and approvals of plans. This section includes second and third level WBS that group design activities by type of design, permitting and ROW.
- 03. Construction** – This section includes all construction activities. This section includes second and third level WBS that group construction activities by location and includes public involvement activities.

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Below is a complete outline of the WBS structure:

WBS Code	WBS Name
Rolling Road Design	Rolling Road/Franconia-Springfield Parkway Interchange Improv.
Rolling Road Design.1	Schedule Milestones
Rolling Road Design.2	Design, Right-of-Way & Permitting
Rolling Road Design.3	Construction
Rolling Road Design.3.0	Public Involvement
Rolling Road Design.3.3.10	Utility Relocation
Rolling Road Design.3.3.1	Phase 1 Loop B, Ramp B, Intersection & F-S Pwk. Outside Widening
Rolling Road Design.3.3.1.1	Intersection, Loop B & FC Pwk Left
Rolling Road Design.3.3.1.2	Ramp B
Rolling Road Design.3.3.2	Phase 2 Loop B & Ramp B Inside Widening
Rolling Road Design.3.3.3	Phase 3 FC Pwk Median
Rolling Road Design.3.3.4	Rolling Road
Rolling Road Design.3.3.4.2	Bridge Construction
Rolling Road Design.3.3.4.1	Median
Rolling Road Design.3.3.4.1.1	STA 421-425
Rolling Road Design.3.3.4.1.2	STA 416-420
Rolling Road Design.3.3.4.1.3	Bridge
Rolling Road Design.3.3.4.1.4	STA 411+40-414
Rolling Road Design.3.3.4.1.5	STA 402+40-410+75
Rolling Road Design.3.3.5	Final Surfacing

Calendars

The following calendars were used to develop the preliminary schedule:

- *Calendar Days* – Based on a 7 days per week and is used for items that are independent of working days, such as review periods.
- *Standard* – Based on a 5 day per week schedule and is used for most design and construction activities.
- *Paving / Concrete Flatwork* – Based on a 5 day per week schedule with a block out for 15 December to 1 February and is used for activities with reduced productivity during the winter months.

Design and Construction Sequence

Design - The design phase includes; investigative activities such as supplemental field surveys, geotechnical borings and laboratory analysis, and scope validation; preliminary engineering, final plan development, hydrological and hydraulic analysis, and VDOT review and approval of plans and reports, and the release for construction plans. Other activities performed during the design phase includes; carrying out environmental commitments, including noise abatement evaluations; environmental surveying, inventorying, delineation, verification and permitting services; development of a right-of-way (ROW) acquisition and relocation plan and ROW services to secure the properties needed to build the project; and utility delineation and services for relocation of existing services.

Construction - CHC divided the project into logical segments of work for efficient use of MOT devices, construction and stormwater management. CHC then combined/sequenced work to maximize planned resources, reduce overall schedule, ensure safe and consistent flow of traffic through the work zone.

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Construction is broken down into 3 sequential phases and 1 concurrent phase. Phases 1-3 occur sequentially and Rolling Road will be constructed concurrently with Phases 1-3 until complete. Phase 1 consists of installation of storm drain, construction of the Storm Water management pond, concurrent construction of the right side widening of Loop B and Ramp B, left side widening of Fairfax County Parkway, construction of the shared use path and right side widening of Rolling Road.

Phase 2 consist of construction of the left side widening of Loop B and Ramp B and left side modification of Franconia-Springfield Parkway between Loop B and Ramp B.

Phase 3 consist of the median widening and modifications along Fairfax County Parkway. Rolling Road median modifications will start at the North end and progress south until complete.

Signal installation at the intersection of Ramp/Loop B and Rolling Road will being in Phase 1 and continue through Phase 2 with completion soon after Phase 2. Signal Modification at Fairfax County Parkway and Stream Way will occur during Phase 3. The new Overhead signs will be constructed during Phase 1 and 3 and concurrently with Rolling Road median changes.

The Rolling Road Bridge repairs can start at any point after initial MOT installation. We plan to perform this work concurrent with Phase 2.

After the completion of Phase 3 we will install the final surface and striping throughout the project to ensure a consistent final product.

Critical Path

The critical path is based on the longest path through the project. The Critical activities are shown in the table below. The critical path flows through preparation and approval of the Design QA/QC plan, development of the 30% plans, ROW process, Phase 1 Loop Widening, Phase 2, Phase 3 and Final surface and striping.

Activity ID	Activity Name	Start	Finish
3	Contract NTP	02-14-14*	
245	Substantial Completion (Interim Milestone)		04-18-16
246	Punch List	04-19-16	05-16-16
247	Final Completion		05-16-16*
4	Prepare Quality Assurance and Quality Control (QA/QC) Plan	02-14-14	02-28-14
5	Submit QA/QC Plan - Present to VDOT	03-07-14	03-10-14
6	VDOT Review of QA/QC	03-10-14	03-30-14
7	Revise and Resubmit QA/QC Plan	03-31-14	04-04-14
8	QA/QC Plan Approval	04-05-14	04-25-14
12	Develop FI/RW Plans-30% Plans	04-07-14	06-06-14
13	VDOT Review and Approved FI/RW	06-07-14	06-27-14
14	FI/RW Plans Approved	06-30-14	
25	Set ROW Monumentation after Substantial Completion	04-19-16	05-16-16
126	Complete ROW Plan and Profile, Design Numbers, Right-of-Way Data Sheet Per form RW-301 Checklist, Plats and Metes & Bounds	06-30-14	07-25-14

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Activity ID	Activity Name	Start	Finish
127	Receive ROW Plan Approval for Perm & Temp Easements, Utility Easements from VDOT	07-26-14	08-15-14
130	VDOT Issue Notice to Proceed for ROW Acquisitions- Hold Point	08-18-14	
131	Title Exam, Appraisals, Appraisal Reviews, Titles, Report	08-18-14	09-26-14
132	Post Appraisal & Appraisal Reviews to RUMS	09-15-14	10-24-14
133	VDOT Review & Approval Appraisal Packages, Just Compensation, Relocation Benefits and Administrative Settlements-Acquisition	10-14-14	12-15-14
134	Initiate ROW/Easements Negotiations, Acquisition incl. RW24's	10-21-14	12-01-14
135	Make Offers to Property Owners	11-19-14	12-30-14
136	Property Owner Accepts Offer	12-18-14	01-28-15
141	VDOT Process Vouchers and Issue State Warrants for Payments to Contractor for Acquisitions	12-18-14	01-07-15
142	Closing and Settlement Payment Disbursement and Indefensible Title to VDOT-Acquisitions	12-29-14	03-20-15
143	VDOT Issue Clearance for Construction - Acquisitions-Hold Point	03-28-15	04-17-15
145	Mobilization	04-20-15	05-01-15
152	Construction Survey	05-04-15	05-16-16
153	Project management / QA & QC	05-04-15	05-16-16
161	MOT Hold Point	05-04-15	05-04-15
175	Install Project MOT	05-05-15	05-06-15
176	Project E&S Controls	05-07-15	05-13-15
178	Clear and Grub	05-14-15	06-01-15
151	Semi Annual Pardon our Dust Meetings	05-02-15	04-18-16
182	Excavate for SWM Pond	06-02-15	07-29-15
183	Undercut for Widening Loop B	07-30-15	08-12-15
184	Agg. Base / Underdrain	08-13-15	08-21-15
185	Asphalt Base and Intermediate	08-24-15	08-28-15
187	Roadside Improvements	08-31-15	09-11-15
199	Install Phase 2 MOT	09-14-15	09-18-15
200	Switch Traffic	09-21-15	09-21-15
201	Demo Existing Pavement	09-22-15	09-28-15
202	Demo Median	09-29-15	10-12-15
204	Wall 4, 5, & 6	10-13-15	11-09-15
205	Agg Base / Underdrain	11-10-15	11-19-15
206	Asphalt Base and Intermediate	11-20-15	11-26-15
207	Roadside Improvements	11-27-15	12-10-15
208	Install Phase 3 MOT	12-11-15	12-17-15
209	Demo Median	12-18-15	01-07-16
212	Median Construction	01-08-16	02-16-16
213	Agg Base / Underdrain	02-17-16	03-03-16
214	Asphalt Base and Intermediate	03-04-16	03-11-16
242	Final Mill and Surface	03-14-16	04-04-16
243	Final Striping / Roadside Improvement	04-05-16	04-18-16

Means and Methods

The CHC/JMT Team does not anticipate the need for extraordinary construction means and methods. Along Phases 1 & 2 we intend to utilize barrier to separate the work area from active travel lanes. This will allow work to occur with minimal disturbance to current traffic patterns. Phase 3 will be a mixture of barrier and daily lane closures to allow for safe transit and construction through the work zone. Rolling Road will be constructed under daily lane closures. In areas where daily lane closures are used excavations will be “safed up” with a wedge of soil or stone base to allow for safe transit through the work zone during times when no lane closures are present. The CHC/JMT Team has used this method on multiple projects with great success in both safety and schedule.

Managing the Design and Construction Schedule

Design - Throughout design the Construction Manager will work closely with the Design Manager to ensure design milestones are met. This includes, but is not limited to monthly design progress meetings, comment resolution meetings at the end of each VDOT review cycle and special meetings to ensure quick resolution of any issues that may arise.

Construction - In addition to close CPM monitoring, the schedule will be managed on a day to day basis during construction through the use of a detailed three week schedule and weekly meeting with field staff from both VDOT and CHC to ensure upcoming work is thoroughly communicated to all parties. In addition, the CHC/JMT Team will hold monthly onsite progress/partnering meetings to ensure that all stakeholders are involved and aware of the project status and provide for quick resolution of issue that may arise.

Design engineers will remain available throughout construction to respond to any issues or RFIs that may arise during construction of the project.

The CHC/JMT Team’s history communication and proactive problem solving between the Team, Owner and other stakeholders will serve to minimize the need for schedule recovery. However, if the need arrive the CHC/JMT Team will continue our proven aggressive schedule management and develop a recovery strategy acceptable to all parties without sacrificing the quality of the project. If required to recover the schedule, CHC will be able to leverage the worldwide resources of the Tutor Perini Corporation to aid in the recovery of any potential schedule impact with minimal impact to the project and zero impact to project quality.

Key Assumptions

- ROW is limited to Easements and Rights of Entry.
- No significant utility Relocations are anticipated.

Summary

The CHC/JMT Team’s comprehensive pre-proposal preparation, proven D-B experience and extensive history of partnering with the Owner to provide safe, on time and on budget construction will serve to ensure that the Rolling Road/Franconia-Springfield Parkway Interchange Improvements will be a benefit to VDOT and the traveling public.

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