

RESPONSE TO REQUEST FOR PROPOSALS

ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN

A DESIGN-BUILD PROJECT
FAIRFAX COUNTY, VIRGINIA

LETTER OF SUBMITTAL



State Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

Contract ID Number: C00077322DB52

Submitted To:



Submitted By:



In Association With:



ATTACHMENT 4.0.1.1
ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN
LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

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

| Letter of Submittal Component | Form (if any) | RFP Part 1 Cross Reference | Page Reference |
|--|-----------------------------------|-------------------------------|-------------------|
| Letter of Submittal Checklist and Contents | Attachment 4.0.1.1 | Section 4.0.1.1 | i-ii |
| Acknowledgement of RFP, Revisions, and/or Addenda | Attachment 3.4 (Form C-78-RFP) | Sections 3.4; 4.0.1.1 | iii |
| Letter of Submittal | NA | Sections 4.1 | 1-2 |
| Letter of Submittal on Offeror's letterhead | NA | Section 4.1.1 | 1 |
| Offeror's full legal name and address | NA | Section 4.1.1 | 2 |
| Authorized representative's original signature | NA | Section 4.1.1 | 1 |
| Declaration of intent | NA | Section 4.1.2 | 1 |
| 120 day declaration | NA | Section 4.1.3 | 1 |
| Point of Contact information | NA | Section 4.1.4 | 1 |
| Principal Officer information | NA | Section 4.1.5 | 1 |
| Offeror's Corporate Structure | NA | Section 4.1.6 | 1 |
| Full Legal Name of Lead Contractor and Lead Designer | NA | Section 4.1.7 | 2 |
| Offeror's VDOT prequalification information | NA | Section 4.1.8 | 2 |
| DBE statement confirming Offeror is committed to achieving the required DBE goal | NA | Section 4.1.9 | 2 |
| Substantial and Final Completion Date(s) | NA | Section 4.1.10 | 2 |
| | | | |

ATTACHMENT 4.0.1.1
ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN
LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

| Letter of Submittal Component | Form (if any) | RFP Part 1 Cross Reference | Page Reference |
|---|--|---------------------------------------|---------------------------|
| Attachments to the Letter of Submittal | NA | Section 4.2 | |
| Affiliated and/ or Subsidiary Companies | Attachment 4.2.1 | Section 4.2.1 | 3-4 |
| Certification Regarding Debarment Forms | Attachment 4.2.2(a) Attachment 4.2.2(b) | Section 4.2.2 | 5-10 |
| Offeror's VDOT prequalification information | NA | Section 4.2.3 | 11 |
| Evidence of obtaining bonding | NA | Section 4.2.4 | 12-13 |
| Full size copies of DPOR licenses and SCC registrations | NA | Section 4.2.5 | 14-24 |
| SCC registration information - businesses | Attachment 4.2.5 | Section 4.2.5.1 | 25 |
| DPOR registration information - businesses | Attachment 4.2.5 | Section 4.2.5.2 | 25 |
| Lead Contractor Work History Form | Attachment 4.2.6(a) | Section 4.2.6 | 26-28 |
| Lead Designer Work History Form | Attachment 4.2.6(b) | Section 4.2.6 | 29-31 |
| Conceptual Roadway Plans | NA | Section 4.2.7 | 32-36 |
| Conceptual Bridge Plans | NA | Section 4.2.8 | 37-38 |

ATTACHMENT 3.4

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

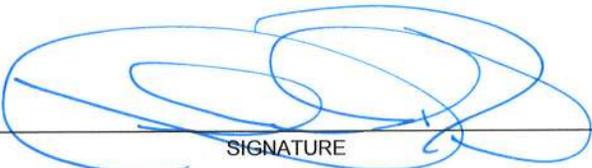
RFP NO. C00077322DB52
PROJECT NO.: 0029-029-128

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 3.4, 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 February 22, 2013 – RFP
(Date)
2. Cover letter of March 20, 2013 – RFP Addendum No. 1
(Date)
3. Cover letter of _____
(Date)



SIGNATURE

4/4/13

DATE



April 4, 2013

Mr. Joseph Clarke, P.E.
Virginia Department of Transportation
1401 East Broad Street
Annex Building, 8th Floor
Richmond, VA 23219

RE: Route 29 Bridge over Little Rocky Run
From: 0.2 Miles East of Pickwick Road
To: Union Mill Road
Fairfax, Virginia, Contract ID Number C00077322DB52
Section 4.1 - Letter of Submittal

Dear Mr. Clarke:

Shirley Contracting Company, LLC, (Shirley) 8435 Backlick Road, Lorton, Virginia 22079, as the Offeror, is pleased to submit this Proposal for the Route 29 Bridge over Little Rocky Run Project (the Project) to the Virginia Department of Transportation (VDOT). Together with Dewberry Consultants, LLC as the Engineer of Record, we will provide VDOT and the traveling public with an unequalled level of assurance that the Project will be completed successfully and will exceed the priorities established.

Offeror's Intent: Should VDOT select Shirley for award of the Route 29 Bridge over Little Rocky Run Project, Shirley will enter into a contract with VDOT for the Project in accordance with the terms of the Request for Proposal.

Declaration: The offer represented by our Technical and Price Proposals will remain in full force and effect for one hundred twenty (120) days from the date this Technical Proposal is actually submitted to VDOT.

Our point of contact for this Project will be:

Mr. Garry A. Palleschi
Vice President
Shirley Contracting Company, LLC
8435 Backlick Road
Lorton, Virginia 22079
(P) 703-550-8100 (F) 703-550-7899
gpalleschi@shirleycontracting.com

The Principal Officer for the Offeror

Mr. Michael E. Post
President/CEO
Shirley Contracting Company, LLC
8435 Backlick Road
Lorton, Virginia 22079
(P) 703-550-8100 (F) 703-550-7899
mpost@shirleycontracting.com

Structure: Shirley Contracting Company, LLC, a limited liability company, will be the legal entity, will have financial responsibility for the Project and will have joint and several liability for the performance of the work. There are no liability limitations. Our bonding approach will be to provide performance and payment bonds for the total contract value and time period.

Full Legal Name of Lead Contractor: Shirley Contracting Company, LLC

Full Legal Name of Lead Designer: Dewberry Consultants, LLC

VDOT Prequalification Number and Status: Shirley Contracting Company, LLC is currently Prequalified with VDOT. Our Vendor number is **S018**. A screen shot print out from VDOT's on-line Prequalified List is attached.

DBE Participation Goal: Based on our experience and efforts we will put forward on the project, we commit to meeting the 15% DBE goal for the Route 29 Bridge over Little Rocky Run Project.

Substantial Completion Date: August 28, 2015

Final Completion Date: October 22, 2015

On behalf of our Team, we thank the Virginia Department of Transportation for the opportunity to submit this Technical Proposal in response to your Request for Proposals and we look forward to your favorable review.

Sincerely,



Michael E. Post
President/CEO/Manager
Shirley Contracting Company, LLC

4.2 ATTACHMENTS TO THE LETTER OF SUBMITTAL

ATTACHMENT 4.2.1

State Project No. 0029-029-128

Affiliated and Subsidiary Companies of the Offeror

Offerors shall complete the table and include the addresses of affiliates or subsidiary companies as applicable. By completing this table, Offerors certify that all affiliated and subsidiary companies of the Offeror are listed.

| |
|--|
| <input type="checkbox"/> The Offeror does not have any affiliated or subsidiary companies. |
| <input type="checkbox"/> Affiliated and/ or subsidiary companies of the Offeror are listed below. |

| Relationship with Offeror (Affiliate or Subsidiary) | Full Legal Name | Address |
|--|---------------------------------------|--|
| Affiliate | Atkinson Construction | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Atkinson Contractors, LP | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Shirley Design/Build, LLC | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | SCC Infrastructure | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Construction Group, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Enterprises | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Civil Construction, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Concrete Contractors, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Construction International, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Construction, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Design/Build, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Facility Services, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Foundations, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark Global Technologies, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |

ATTACHMENT 4.2.1

State Project No. 0029-029-128

Affiliated and Subsidiary Companies of the Offeror

| | | |
|-----------|---------------------------------|--|
| Affiliate | Clark Real Estate Advisors, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
|-----------|---------------------------------|--|

| Relationship with Offeror (Affiliate or Subsidiary) | Full Legal Name | Address |
|--|---|--|
| Affiliate | Clark Strategic Operations Group, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Clark/Balfour Beatty NCE, A Joint Venture | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Edgemoor Real Estate Services, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Innovative Infrastructure, LLC | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | Loudoun County Transportation Networks, LLC | 7500 Old Georgetown Road, Bethesda, MD 20814 |
| Affiliate | Metro Earthworks, | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | Route 28 Corridor Improvements, LLC | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | Shirley Pentagon Constructors,, LLC | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | Shirley/Clark Loudoun Infrastructure, LLC | 8435 Backlick Road, Lorton, Virginia 22079 |
| Affiliate | Charlottesville Bypass Constructors, A Joint Venture | 8435 Backlick Road, Lorton, Virginia 22079 |
| | | |
| | | |
| | | |
| | | |
| | | |

ATTACHMENT 4.2.2(a)
CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0029-029-128

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.

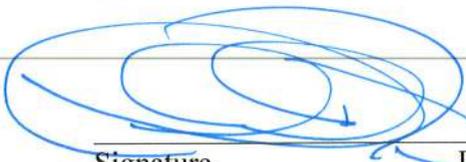
b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under 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

4/4/13

Date

President/CEO/Manager

Title

Shirley Contracting Company, LLC

Name of Firm

ATTACHMENT 4.2.2(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0029-029-128

- 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.

Dave Mahoney 3/26/13 Executive Vice President
Signature Date Title

Dewberry Consultants
Name of Firm

ATTACHMENT 4.2.2(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0029-029-128

- 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.

| | | |
|--|---------|-----------|
|  | 3/26/13 | Associate |
| Signature | Date | Title |

GeoConcepts Engineering, Inc.
Name of Firm

ATTACHMENT 4.2.2(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0029-029-128

- 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.

Garrett Rumm 3/26/13 President
Signature Date Title

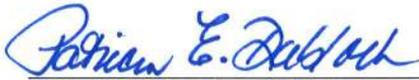
Quinn Consulting Services, Inc.
Name of Firm

ATTACHMENT 4.2.2(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0029-029-128

- 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.



3/26/2013

President

Signature

Date

Title

Diversified Property Services, Inc.

Name of Firm

ATTACHMENT 4.2.2(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0029-029-128

- 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.

RRR 3-30-13 Settlement Advisor
Signature Date Title

Old Dominion Settlements Inc., TIA Key Title
Name of Firm

TRANSPORT - E22
LSPPREQ

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PREQUALIFIED VENDORS SORTED BY VENDOR NAME
THIS LIST INCLUDES ALL PREQUALIFIED LEVELS
AS OF 03/22/2013
- S -

03/22/2013
2:03 PM
PAGE 378

=====
S1060
SHEPAUL ENTERPRISES, INC.
PREQ. EXP : 09/30/2013

--PREQ ADDRESS ----- WORK CLASSES (LISTED BUT NOT LIMITED TO)
P. O. BOX 1638 020 - FENCE INSTALLATION
BECKLEY, WV 25802-1638 021 - GUARDRAIL INSTALLATION
PHONE : 304-877-6451 023 - REINFORCING STEEL PLACEMENT
FAX : 304-877-5789

BUSINESS CONTACT: HAPUARACHY, SUMITH PETER
EMAIL: SH1912BECK@AOL.COM

-----DBE INFORMATION-----

DBE TYPE : DBE
DBE CONTACT: N/A

=====
S018
SHIRLEY CONTRACTING COMPANY, LLC
PREQ. EXP : 09/30/2013

--PREQ ADDRESS ----- WORK CLASSES (LISTED BUT NOT LIMITED TO)
8435 BACKLICK RD. 002 - GRADING
LORTON, VA 22079-1403 003 - MAJOR STRUCTURES
PHONE : 703-550-8100 007 - MINOR STRUCTURES
FAX : 703-550-7897 045 - UNDERGROUND UTILITIES

BUSINESS CONTACT: CLYMORE, DANIEL EDWARD
EMAIL: DCLYMORE@SHIRLEYCONTRACTING.COM

-----DBE INFORMATION-----

DBE TYPE : N/A
DBE CONTACT: N/A



One Tower Square
Hartford, CT 06183

April 4, 2013

Joseph Clarke, P.E.
Virginia Department of Transportation
1401 East Broad Street
Annex Building, 8th Floor
Richmond, VA 23219

Re: Request for Proposals - Contract ID Number: C00077322DB52 - A Design-Build Project
Route 29 Bridge over Little Rocky Run, Fairfax County, Virginia
Estimated Contract Value: \$8,700,000

Dear Mr. Clarke:

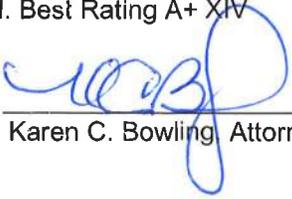
Travelers Casualty and Surety Company of America (A.M. Best Financial Strength Rating A+, Financial Size Category XIV) and their co-surety partners, have the privilege of providing surety bonds for Shirley Contracting Company, LLC. The available bonding capacity on individual projects is in excess of \$150,000,000 with an aggregate of \$3,500,000,000.

In our opinion, Shirley is one of the finest, best managed construction firms in the country. Shirley has handled each of its projects in a professional manner and completed all satisfactorily.

As surety for the above named Contractor, Shirley Contracting Company, LLC, Travelers Casualty and Surety Company of America is capable of obtaining 100% Performance Bond and 100% Labor and Materials Payment Bond in the amount of the anticipated cost of construction, and said bonds will cover the project and any warranty periods as provided for in the Contract Documents on behalf of the Contractor, in the event that such firm be the successful bidder and enter into a contract for this project, subject to acceptable review of the contract documents and bond forms, financing, availability of reinsurance, and Shirley Contracting Company, LLC continuing to satisfy other underwriting considerations at the time the bonds are requested.

Sincerely,

Travelers Casualty and Surety Company of America
A.M. Best Rating A+ XIV

By: 
Karen C. Bowling, Attorney-in-Fact



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 219657

Certificate No. 005239456

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Diana L. Parker, and Karen C. Bowling

of the City of Columbia, State of Maryland, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 16th day of October, 2012.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 16th day of October, 2012, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 4th day of April, 2013.


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.



Commonwealth of Virginia
State Corporation Commission

S
Cor

Virg

04/01/13

LLCM3220

LLC DATA INQUIRY

08:38:42

LLC ID: S082038 - 3 STATUS: 00 ACTIVE STATUS DATE: 08/01/02

LLC NAME: Shirley Contracting Company, LLC

DATE OF FILING: 08/01/2002 PERIOD OF DURATION: INDUSTRY CODE: 00

STATE OF FILING: VA VIRGINIA MERGER INDICATOR:

CONVERSION/DOMESTICATION INDICATOR: Y

P R I N C I P A L O F F I C E A D D R E S S

STREET: 8435 BACKLICK RD

CITY: LORTON STATE: VA ZIP: 22079-0000

R E G I S T E R E D A G E N T I N F O R M A T I O N

R/A NAME: CT CORPORATION SYSTEM

STREET: 4701 COX RD STE 301

RTN MAIL:

CITY: GLEN ALLEN STATE: VA ZIP: 23060-6802

R/A STATUS: 5 ENTITY AUTHORIZ EFF DATE: 03/02/04 LOC: 143 HENRICO COUNTY

YEAR FEES PENALTY INTEREST BALANCE

12 50.00

(Screen Id:/LLC_Data_Inquiry)



Commonwealth of Virginia
State Corporation Commission



04/01/13

LLCM3220

LLC DATA INQUIRY

08:39:11

LLC ID: S044733 - 6 STATUS: 00 ACTIVE STATUS DATE: 10/14/09
 LLC NAME: Dewberry Consultants LLC

DATE OF FILING: 01/01/2000 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF FILING: VA VIRGINIA MERGER INDICATOR:

CONVERSION/DOMESTICATION INDICATOR:

P R I N C I P A L O F F I C E A D D R E S S

STREET: 8401 ARLINGTON BLVD

CITY: FAIRFAX STATE: VA ZIP: 22031-0000

R E G I S T E R E D A G E N T I N F O R M A T I O N

R/A NAME: CORPORATION SERVICE COMPANY

STREET: Bank of America Center, 16th Floor
 1111 East Main Street

RTN MAIL:

CITY: RICHMOND STATE: VA ZIP: 23219-0000

R/A STATUS: 5 ENTITY AUTHORIZ EFF DATE: 04/29/11 LOC: 216 RICHMOND CITY

| YEAR | FEES | PENALTY | INTEREST | BALANCE |
|------|-------|---------|----------|---------|
| 13 | 50.00 | | | |

(Screen Id:/LLC_Data_Inquiry)



Commonwealth of Virginia
State Corporation Commission

Virg

CISM0180

CORPORATE DATA INQUIRY

04/01/13

08:45:05

CORP ID: 0516767 - 1 STATUS: 00 ACTIVE STATUS DATE: 02/25/99

CORP NAME: GEOCONCEPTS ENGINEERING, INC.

DATE OF CERTIFICATE: 02/25/1999 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: VA VIRGINIA STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: 50.00 MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: VIVIAN LEWIS

STREET: GEOCONCEPTS ENGINEERING INC AR RTN MAIL:
 19955 HIGHLAND VISTA DR #170

CITY: ASHBURN STATE : VA ZIP: 20147

R/A STATUS: 2 OFFICER EFF. DATE: 11/24/04 LOC : 153

ACCEPTED AR#: 213 02 3773 DATE: 01/17/13 LOUDOUN COUNTY

CURRENT AR#: 213 02 3773 DATE: 01/17/13 STATUS: A ASSESSMENT INDICATOR: 0

| YEAR | FEE | PENALTY | INTEREST | TAXES | BALANCE | TOTAL SHARES |
|------|--------|---------|----------|-------|---------|--------------|
| 13 | 100.00 | | | | | 5,000 |

(Screen Id:/Corp_Data_Inquiry)



CISM0180

CORPORATE DATA INQUIRY

04/01/13

08:45:27

CORP ID: 0492551 - 7 STATUS: 00 ACTIVE STATUS DATE: 12/01/08

CORP NAME: QUINN CONSULTING SERVICES INCORPORATED

DATE OF CERTIFICATE: 10/24/1997 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: VA VIRGINIA STOCK INDICATOR: S STOCK
 MERGER IND: S SURVIVOR CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: 50.00 MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: JOHN H QUINN JR

STREET: 2208 S KNOLL ST AR RTN MAIL:

CITY: ARLINGTON STATE : VA ZIP: 22202 2134

R/A STATUS: 4 ATTORNEY EFF. DATE: 10/24/97 LOC : 106

ACCEPTED AR#: 212 14 5571 DATE: 09/11/12 ARLINGTON COUNT

CURRENT AR#: 212 14 5571 DATE: 09/11/12 STATUS: A ASSESSMENT INDICATOR: 0

| YEAR | FEE | PENALTY | INTEREST | TAXES | BALANCE | TOTAL SHARES |
|------|--------|---------|----------|-------|---------|--------------|
| 12 | 100.00 | | | | | 5,000 |

(Screen Id:/Corp_Data_Inquiry)



Commonwealth of Virginia
State Corporation Commission

Virg

CISM0180

CORPORATE DATA INQUIRY

04/01/13

08:44:06

CORP ID: F130410 - 6 STATUS: 00 ACTIVE STATUS DATE: 07/01/09
 CORP NAME: DIVERSIFIED PROPERTY SERVICES OF VIRGINIA, INC. (U
 SED IN VA BY: DIVERSIFIED PROPERTY SERVICES, INC.)
 DATE OF CERTIFICATE: 08/05/1997 PERIOD OF DURATION: INDUSTRY CODE: 00
 STATE OF INCORPORATION: MD MARYLAND STOCK INDICATOR: S STOCK
 MERGER IND: CONVERSION/DOMESTICATION IND:
 GOOD STANDING IND: Y MONITOR INDICATOR:
 CHARTER FEE: 50.00 MON NO: MON STATUS: MONITOR DTE:
 R/A NAME: BRENDAN R HANTZES
 STREET: 3771 VERMACCHIA DR AR RTN MAIL:
 CITY: CHANTILLY STATE : VA ZIP: 20151
 R/A STATUS: 2 OFFICER EFF. DATE: 08/09/02 LOC : 129
 ACCEPTED AR#: 212 12 1611 DATE: 07/19/12 FAIRFAX COUNTY
 CURRENT AR#: 212 12 1611 DATE: 07/19/12 STATUS: A ASSESSMENT INDICATOR: 0
 YEAR FEES PENALTY INTEREST TAXES BALANCE TOTAL SHARES
 12 100.00 5,000

(Screen Id:/Corp_Data_Inquiry)



Commonwealth of Virginia
State Corporation Commission

Virg

CISM0180

CORPORATE DATA INQUIRY

04/01/13

08:44:31

CORP ID: 0243891 - 9 STATUS: 00 ACTIVE STATUS DATE: 05/22/97

CORP NAME: OLD DOMINION SETTLEMENTS, INC.

DATE OF CERTIFICATE: 07/08/1983 PERIOD OF DURATION: INDUSTRY CODE: 35

STATE OF INCORPORATION: VA VIRGINIA STOCK INDICATOR: S STOCK

MERGER IND: CONVERSION/DOMESTICATION IND:

GOOD STANDING IND: Y MONITOR INDICATOR:

CHARTER FEE: MON NO: MON STATUS: MONITOR DTE:

R/A NAME: RONALD H. LAZARUS

STREET: 7010 LITTLE RIVER TURNPIKE, SUITE 240 AR RTN MAIL:

CITY: ANNANDALE STATE : VA ZIP: 22003

R/A STATUS: 4 ATTORNEY EFF. DATE: 09/05/95 LOC : 129

ACCEPTED AR#: 213 50 1734 DATE: 01/14/13 FAIRFAX COUNTY

CURRENT AR#: 213 50 1734 DATE: 01/14/13 STATUS: A ASSESSMENT INDICATOR: 0

YEAR FEES PENALTY INTEREST TAXES BALANCE TOTAL SHARES

12 220.00 25,000

(Screen Id:/Corp_Data_Inquiry)

Details of license number 2705071652

[print](#)

| | |
|--|--|
| Name: | SHIRLEY CONTRACTING COMPANY LLC |
| License Number: | 2705071652 |
| License Description: | Contractor (Class A) |
| Class Definitions | |
| Business Type: | LLC |
| Address: | 8435 BACKLICK ROAD LORTON, VA 22079 |
| Specialties/Classifications: | |
| Classification Definitions | Highway / Heavy (H/H) |
| Specialty Definitions | |
| Initial Certification Date: | October 8, 2002 |
| Expiration Date: | October 31, 2014 |

Complaints

No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [[Code of Virginia Section 54.1-108](#)]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

No Closed Complaints

"Closed Complaints" reflect complaints against regulants closed since 1990. Cases closed without disciplinary action are purged after three years in accordance with DPOR's record retention policy.

To inquire about closed complaints, see the department's [Public Records Access](#) or contact the department's Information Management Section at (804) 367-8583 or publicrecords@dpor.virginia.gov.

Recovery Fund Claims include claims against a licensee where a judgment has been obtained for improper or dishonest conduct in a court of law. The Contractors Transaction Recovery Fund and the Real Estate Transaction Recovery Fund provide monetary relief to consumers who incur losses through the improper and dishonest conduct of a licensed contractor or licensed real estate professional. The funds are supported entirely by

assessments paid by licensed contractors and licensed real estate professionals, not by any tax revenues.

Details of license number 0407003966

[print](#)

| | |
|-----------------------------|--|
| Name: | DEWBERRY CONSULTANTS LLC |
| License Number: | 0407003966 |
| License Description: | Business Entity Registration |
| Business Type: | LLC |
| Address: | 8401 ARLINGTON BLVD FAIRFAX, VA 22031 |
| Initial Certification Date: | March 14, 2000 |
| Expiration Date: | December 31, 2013 |

Complaints

No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [[Code of Virginia Section 54.1-108](#)]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

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Associated Professional Licensing Information

[print](#)

| | |
|----------------------|------------------------------------|
| | Landscape Architect License |
| Name: | COUTURE, DENNIS M |
| License Number: | 0406000847 |
| License Description: | Landscape Architect License |

Address: VIENNA VA, 22180
Initial Certification Date: March 9, 1998
Expiration Date: March 31, 2014

[print](#)

Architect License

Name: BEIGHT, JAMES LADEN
License Number: [0401008756](#)
License Description: Architect License
Address: HERNDON VA, 20170
Initial Certification Date: August 11, 1993
Expiration Date: August 31, 2013

[print](#)

Professional Engineer License

Name: STONE, DONALD EDWARD, JR
License Number: [0402026519](#)
License Description: Professional Engineer License
Address: FAIRFAX VA, 22031
Initial Certification Date: November 27, 1995
Expiration Date: September 30, 2013

[print](#)

Land Surveyor License

Name: ROBINSON, BRYANT L
License Number: [0403001932](#)
License Description: Land Surveyor License
Address: CULPEPER VA, 22701
Initial Certification Date: January 5, 1993
Expiration Date: January 31, 2015

Details of license number 0407004404

[print](#)

| | |
|-----------------------------|---|
| Name: | GEOCONCEPTS ENGINEERING INC |
| License Number: | 0407004404 |
| License Description: | Business Entity Registration |
| Business Type: | CORP |
| Address: | 19955 HIGHLAND VISTA DRIVE SUITE 170 ASHBURN, VA 20147 |
| Initial Certification Date: | March 28, 2003 |
| Expiration Date: | December 31, 2013 |

Complaints

No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [[Code of Virginia Section 54.1-108](#)]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

No Closed Complaints

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To inquire about closed complaints, see the department's [Public Records Access](#) or contact the department's Information Management Section at (804) 367-8583 or publicrecords@dpor.virginia.gov.

Associated Professional Licensing Information

[print](#)

| | |
|----------------------|--------------------------------------|
| | Professional Engineer License |
| Name: | BURKART, PAUL EDWARD |
| License Number: | 0402021556 |
| License Description: | Professional Engineer License |

Address: ASHBURN VA, 20147
Initial Certification Date: August 30, 1990
Expiration Date: March 31, 2014

print

Professional Engineer License

Name: LEWIS, TADEUSZ WILLIAM
License Number: 0402021276
License Description: Professional Engineer License
Address: ASHBURN VA, 20147
Initial Certification Date: July 16, 1990
Expiration Date: April 30, 2014

Details of license number 0407003733

[print](#)

| | |
|-----------------------------|--|
| Name: | QUINN CONSULTING SERVICES INC |
| License Number: | 0407003733 |
| License Description: | Business Entity Registration |
| Address: | 14160 NEWBROOK DR SUITE 220 CHANTILLY, VA 20151 |
| Initial Certification Date: | March 5, 1998 |
| Expiration Date: | December 31, 2013 |

Complaints

No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [[Code of Virginia Section 54.1-108](#)]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

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To inquire about closed complaints, see the department's [Public Records Access](#) or contact the department's Information Management Section at (804) 367-8583 or publicrecords@dpor.virginia.gov.

Associated Professional Licensing Information

[print](#)

| | |
|----------------------|--------------------------------------|
| | Professional Engineer License |
| Name: | VICINSKI, JOHN KEVIN |
| License Number: | 0402026380 |
| License Description: | Professional Engineer License |
| Address: | CHANTILLY VA, 20151 |

Initial Certification Date: August 10, 1995
Expiration Date: August 31, 2013

[print](#)

Professional Engineer License

Name: VYAS, KAUSHIKKUMAR BHUPENDRAPRASAD
License Number: [0402039004](#)
License Description: Professional Engineer License
Address: GORDONSVILLE VA, 22942
Initial Certification Date: June 14, 2004
Expiration Date: June 30, 2014

Details of license number 4008001190

[print](#)

Name: DIVERSIFIED PROPERTY SERVICES OF VIRGINIA INC
License Number: 4008001190
License Description: Appraisal Business Registration
Business Type: Corporation
Address: 20 E TIMONIUM ROAD SUITE 111
TIMONIUM, MD 21093
Initial Certification Date: November 29, 2000
Expiration Date: November 30, 2014

Complaints

No Open Complaints

"Open Complaints" reflect only those complaints against regulants for which a departmental investigation has determined that sufficient evidence exists to establish probable cause of a violation of the law or regulations. Only those cases that have proceeded through an investigation to the adjudication stage are displayed. **State law prohibits the disclosure of any information about open complaints** [[Code of Virginia Section 54.1-108](#)]. Members of the public may review official records and obtain copies only after a complaint investigation is closed.

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ATTACHMENT 4.2.5

State Project No. 0029-029-128

SCC and DPOR Information

Offerors shall complete the table and include the required state registration and licensure information. By completing this table, Offerors certify that their team complies with the requirements set forth in Section 4.2.5 and that all businesses and individuals listed are active and in good standing.

| SCC & DPOR INFORMATION FOR BUSINESSES (RFQ Sections 4.2.5.1 and 4.2.5.2) | | | | | | | |
|---|----------------------------------|--------------------------------|-------------------|---|--------------------------------|---------------------------------|-----------------------------|
| Business Name | SCC Information (4.2.5.1) | | | DPOR Information (4.2.5.2) | | | |
| | SCC Number | SCC Type of Corporation | SCC Status | DPOR Registered Address | DPOR Registration Type | DPOR Registration Number | DPOR Expiration Date |
| Shirley Contracting Company, LLC | S082038-3 | Limited Liability Company | Active | 8435 Backlick Road Lorton, VA. 22079 | Business Entity | 2705071652 | October 31, 2014 |
| Dewberry Consultants LLC | S044733-6 | Limited Liability Company | Active | 8401 Arlington Boulevard Fairfax, VA 22031 | Business Entity | 0407003966 | Dec. 31, 2013 |
| GeoConcepts Engineering, Inc. | 0516767-1 | Corporation | Active | 19955 Highland Vista Drive Suite 170 Ashburn, VA 20147 | Business Entity | 0407004404 | Dec. 31, 2013 |
| Quinn Consulting Services, Inc. | 0492551-7 | Corporation | Active | 4607 Marble Rock Ct. Chantilly, VA. 20151 | Business Entity | 0407003773 | Dec. 31, 2013 |
| Diversified Property Services of Virginia, Inc. | F130410-6 | Corporation | Active | 20 E Timonium Road, Suite 111 Timonium, MD 21093 | Real Estate Appraiser Business | 4008001190 | Nov. 30, 2014 |
| Old Dominion Settlements, Inc (Key Title) | 0243891-9 | Corporation | Active | n/a | | | |

ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

| a. Project Name & Location | b. Name of the prime design consulting firm responsible for the overall project design. | c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities. | d. Contract Completion Date (Original) | e. Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands) |
|---|---|---|--|---|----------------------------------|---|---|
| | | | | | Original Contract Value | Final or Estimated Contract Value | |
| Name: Dulles Greenway Capital Improvements Project Loudoun Counties, Virginia | Name: Dewberry Consultants LLC, formerly Dewberry & Davis, LLC | Name of Client./ Owner: Toll Road Investors Partnership II (TRIP II) 45305 Catalina Court, Suite 102 Sterling, Virginia 20166 Mr. Tom Sines p. 703-707-9096 f. 703-707-8876 | December 2007 | December 2007 | \$ 64,994 | \$ 71,084 * Difference due to Owner added scope | \$ 71,084 |

h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of that work can be considered accordingly.



The Dulles Greenway Capital Improvement Program (Greenway) included eight individual projects combined into a single design-build program. The original scope of this program included new interchanges at Battlefield Parkway and Shreve Mill Road, enhancements to existing interchanges at Route 606 and Route 772, widening of mainline roadway from four (4) to six (6) lanes, expansion of the mainline toll plaza, and widening of the existing twin 660 foot long, 100 foot high bridges over Goose Creek. Shirley and Dewberry provided all design, construction, permitting, utility relocations, and construction administration, all in a format to allow VDOT acceptance at completion. In August 2006, TRIP II awarded Shirley a change order to design and construct improvements to the Route 772/Greenway Interchange. Even with this added scope, the design-build team completed the original contract work and the additional interchange by the original completion date of December 2007.

Impacts to traffic were not only a project safety concern and an inconvenience to the traveling public, but also directly affected the Owner's profitability, which made this Project unique. In addition to enhanced safety features and increased capacity in final design, our Team developed detailed traffic management plans that focused on maintaining lane widths and travel speeds, and reduced the impact to traffic during interim construction phases.

The project included the widening of the Greenway bridges over Goose Creek and included demolition of the median parapet and 21' of widening to the median side of both of the 660 linear foot bridges. The work included construction of four 90' tall piers within Goose Creek using non-erodible cofferdam construction around the pier footing excavation and to create a crane platform to set the new girders. The Shirley/Dewberry Team acquired all environmental permits required for the instream work and the crossing of navigable waters including USACE, DEQ, and VMRC permits. The total contract value of the Goose Creek bridge work was \$6,374,000.

On the Battlefield Parkway Interchange, Shirley partnered with the Town of Leesburg and the local community to avoid impact to soccer fields during the summer of 2005. A segment of the Town's right-of-way between the Greenway and Evergreen Mills Road that was acquired for the project was currently being used for little league soccer games. Shirley re-sequenced the CPM schedule to avoid impacting the area until after the completion of the soccer season allowing the community time to find alternate playing fields for the next season without impacting their 2005 season. This schedule re-sequencing was completed at no cost to the Owner, without impacting the project completion date and is an example our Team's willingness to partner with the Owner and local communities to maintain positive public perception.

Shirley is committed to providing a safe and healthy environment for our employees, subcontractors and to the general public who may enter our jobsite or workzone. We consider the prevention of accidents to be an integral part of our operation, and to these ends, we established a comprehensive, project specific, *Safety and Health Program* for the Greenway to assure the continued safety of everyone on the project. On the Greenway our employees logged more than 300,000 man hours with no lost-time accidents. We continue to develop and enhance our safety program and proactively train our employees and subcontractors to repeat this success on all future projects.

With Shirley as the Lead Contractor and Dewberry as the Lead Designer, the Dulles Greenway Capitol Improvements Program provides yet another example of the Team's proven design-build experience. Shirley and Dewberry completed this \$71 million design-build program, including design, environmental permitting, utility relocations, construction, and VDOT acceptance in less than three years earning our team recognition as a recipient of the *2008 Regional Design-Build Excellence Award* for large transportation projects presented by the Design-Build Institute of America (DBIA). This was accomplished by completing the Plan review and approvals that were required by multiple agencies and jurisdictions, including more than 20 individual Plan submission packages.

ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

| a. Project Name & Location | b. Name of the prime design consulting firm responsible for the overall project design. | c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities. | d. Contract Completion Date (Original) | e. Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands) |
|--|---|--|--|---|----------------------------------|--|---|
| | | | | | Original Contract Value | Final or Estimated Contract Value | |
| Battlefield Parkway Design-Build Project Leesburg, Virginia | Name: Dewberry Consultants LLC, formerly Dewberry & Davis, LLC | VDOT Northern Virginia District Office 4975 Alliance Drive Fairfax, VA 22030 Ms. Susan Shaw, PE Project Manager 703.383-2824 Susan.Shaw@vdot.virginia.gov | November 2009 | November 2009 | \$24,527 | \$826,550* * Difference due to Owner added scope | \$26,550 |

h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of that work can be considered accordingly.



Shirley Design/Build, LLC, (as the Offeror, Shirley Contracting Company, LLC was the Lead Contractor) was selected by VDOT in May 2007 under the VDOT's design-build procurement process to design and construct 0.7 miles of 4-lane roadway including dual 1,250 ft. bridges spanning the W&OD trail and the Tuscarora Creek floodplain. The design-build team's responsibilities include all design and engineering, permitting, right-of-way acquisition, utility relocations, construction, and quality assurance and quality control. The project required close coordination with the Northern Virginia Regional Park Authority (NVRPA) to reduce the impacts to the W&OD Trail.

On the Battlefield Parkway Project, public involvement and coordination with local businesses, residents and the traveling public was always essential to provide a high level of customer service to the affected community. One end of Battlefield Parkway is located within a sensitive residential community and park, the middle spans the heavily used W&OD Trail park, and the other end ties into a high volume primary roadway. Our Team attended several local HOA meetings and provided other correspondence and notices, including creating and maintaining a project website (www.battlefieldparkway.com), to ensure that the community and traveling public was kept abreast of the project schedule and changing project conditions.

One of the major hurdles to getting started with construction on any design-build project is the acquisition of right-of-way. On the Battlefield Parkway Project, 80% of the new roadway was located on six parcels owned by four different property owners. Understanding that we had proposed an aggressive schedule for the project, early acquisition of this right-of-way was critical to meeting our project goals. Immediately after the Date of Commencement we began discussions with each of the affected property owners. Within five months we were able to execute Right-of-Entry agreements with all four property owners allowing Shirley to start construction three months ahead of schedule. We have learned the importance of early communication and coordination with affected property Owners. The Battlefield Parkway Project required close coordination with the Town of Leesburg and adjacent property owners during the design phase to minimize future costs for completing future road improvements proposed within the project limits. At no cost to VDOT, our Team prepared exhibits of the future Route 7 and Battlefield Parkway interchange for review by the Town of Leesburg and VDOT and set the profile elevation on our project at an agreed upon elevation to reduce rework during future interchange construction. We also coordinated with VDOT and the Town to include a "T" intersection and stub-out to the future alignment of Russell Branch Parkway, providing exhibits and cost estimates for the additional turn lanes and pavement area. We delayed construction in this area until funding for these improvements could be approved through the Town of Leesburg and the scope added to our contract. We then resequenced the schedule so these additional improvements could be completed without delay to the original completion date.

The Battlefield Parkway Project includes elements that are similar to the Route 29 Little Rocky Run Project including utility relocations (Dominion Power, Verizon, Fairfax Water waterlines, cable TV, and others), and a new bridge structure.

The Battlefield Parkway Project included construction of two 1250' long bridges spanning the W&OD Trail Park and Tuscarora Creek. The bridge lengths were established to span the entire Tuscarora Creek floodplain which is over 950' wide at the crossing location resulting in twelve piers located within the floodplain limits. The Shirley/Dewberry Team completed all H&HA analysis and floodplain studies and acquired all environmental permits for the project. The total cost of the Battlefield Parkway Bridges was \$14,900,000.

The Battlefield Parkway Project enabled our Team to gain significant experience in coordinating and obtaining environmental permits through VDOT's Interagency Coordination Meeting (IACM) process. On Battlefield our Team completed wetland surveys and stream assessments and obtained the Jurisdictional Determination from the Corp of Engineers prior to the Date of Commencement. Immediately after the Date of Commencement we worked with VDOT's Project Manager and the NOVA District Environmental Section to secure the necessary mitigation and submit the Joint Permit Application (JPA). Finally, after presenting the project to the permitting agencies at the IACM meeting we obtained the environmental permit within only four months from the start of the project. Working jointly with VDOT through the IACM process we were able to obtain the Environmental Permits for the Battlefield Parkway Project months ahead of the planned construction start dates ensuring that there would be no construction delays due to Environmental Permitting.

ATTACHMENT 4.2.6(a)

LEAD CONTRACTOR - WORK HISTORY FORM

(LIMIT 1 PAGE PER PROJECT)

| a. Project Name & Location | b. Name of the prime design consulting firm responsible for the overall project design. | c. Contact information of the Client or Owner and their Project Manager who can verify Firm's responsibilities. | d. Contract Completion Date (Original) | e. Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Dollar Value of Work Performed by the Firm identified as the Lead Contractor for this procurement.(in thousands) |
|---|---|--|--|---|----------------------------------|--|---|
| | | | | | Original Contract Value | Final or Estimated Contract Value | |
| Name: Springfield Interchange Improvements Phase IV Fairfax, Virginia | Name: HNTB Corp. | Name of Client./ Owner: Virginia Mega Projects Office 6433 Walker Lane Alexandria, VA. H.S. Charlie Warriach 571-483-2583 | August 2003 | July 2004 * * Difference due to Owner added scope | \$117,397 | \$140,442* * Difference due to Owner added scope | \$140,442 |

h. Narrative describing the Work Performed by the Firm identified as the Lead Contractor for this procurement. If the Offeror chooses to submit work completed by an affiliated or subsidiary company of the Lead Contractor, identify the full legal name of the affiliate or subsidiary and the role they will have on this Project, so the relevancy of that work can be considered accordingly.



Phase IV of VDOT's Springfield Interchange Improvements Project, known as the "Mixing Bowl", was awarded in November 2000 to Shirley Contracting Company, LLC. The project focused on the Eastern end of the Interchange – mainly the improvements from the I-95 Ramps to the I-495 Capital Beltway towards the Woodrow Wilson Bridge. Additionally, the project completed improvements to the HOV Lanes of I-95. The project called for the construction of **four new bridges totaling over \$49,800,000.00**. The Lead Designer on this project was HNTB.

Bridge B610 was the largest of the bridges constructed on the project. It is the 4,200-foot long flyover ramp from the Capital Beltway Inner Loop to I-95 Southbound. The flyover is the longest inland bridge constructed in Virginia, rising to over 100 feet at its highest point. Built at a cost of \$27,210,350 the bridge consisted of twenty-one piers and two abutments. Foundation elements included 60" and 72" diameter caissons at pier locations and Integral MSE Abutments on steel piling. Substructure concrete consisted of caisson/pile caps with single stem columns and 'hammerhead' style pier caps. Just over 10,000 cubic yards of concrete was poured in the bridge substructure. Steel girders weighing over 12 million pounds spanned the piers and abutments. The most complex operations involved the erection of structure steel over both Outer Loop of the Capital Beltway and the Northbound Lanes of I-95 in the heart of the Mixing Bowl. Steel was set over a series of weekends when detours of I-95 were set-up to allow 36-hour continuous work windows for the 300 ton and 400 ton cranes to safely erect the girders. Deck concrete of over 8,000 cubic yards was poured over a several month stretch. The bridge received a 'ride-ability bonus' for the quality of the concrete work involved. The bridge also has over 4,000 square feet of lightweight sound absorptive walls attached to the parapet structures.

Bridge B635 was constructed along a heavily traveled section of both Loops of the Capital Beltway requiring daily maintenance of traffic. Phasing for the bridge was a complex three-stage plan including the demolition of the existing bridge structures. Built at a cost of \$11,709,415, Bridge B635 is a four span steel structure built over the heavily traveled railroads of both CSX Transportation and the Washington Metropolitan Area Transit Authority's Yellow Line Train. The most challenging element of the bridge construction was the work restrictions imposed by the Railroad Agencies.

Work windows adjacent to the rail lines were only four (4) hours per work day from 12 midnight to 4:00 am. An inordinate amount of planning and coordination were required to make crews the most efficient they could be in this limited timeframe. Bridge foundations were mainly steel piling; however piers adjacent to the rail were required to be founded on drilled shaft caissons. Just over 4 million pounds of structural steel were used in this 550 foot long bridge that carries twelve lanes of traffic on both Loops of the Beltway. 5,000 cubic yards of substructure concrete and 3,000 cubic yards of superstructure concrete were poured in 36 months of construction. Demolition of the existing east and westbound spans of I-95 over the railroads was just as challenging as the new construction elements. Crews used custom demolition shields and specialty equipment to carefully remove the elements from the existing structures. Work was accomplished with zero safety incidents and acclaim from both railroads for the work efforts.

Bridge B613 was a new structure built between the Inner and Outer Loops of the existing Capital Beltway. It eventually replaced the existing eastbound lanes of I-495. At a cost of \$10,082,000, the bridge is an eight (8) span steel structure totaling over 1,300 feet long. Foundations were drilled shaft caissons at pier locations and steel piling at both abutments. A unique element of one abutment includes an integral MSE abutment and wing walls rising over 70' in height above an existing waterway. Structural Steel erection in excess of 4.4 million pounds spanned both the northbound and southbound lanes of I-395 as well as the HOV lanes in Springfield. Over 6,000 cubic yards of concrete were poured in both the substructure and superstructure elements. This bridge also received a 'ride-ability bonus' for the quality of the concrete deck work.

Bridge B628 is a 105 foot long 4-lane bridge carrying the Beltway's Outer Loop traffic at the Mixing Bowl. Built for a cost of just over \$700,000, the bridge consists of eight (8) AASHTO Precast Concrete Girders bearing on MSE Integral Abutments with steel piling foundations. The bridge spans the existing ramp from I-495 eastbound to I-395 north. Maintenance of traffic and safety of the traveling public were paramount concerns during the construction with no safety accidents or incidents.

Other major elements of the Springfield Interchange Phase IV Project included 500,000 cubic yards of earthwork, 250,000 tons of asphalt concrete, 20,000 linear feet of stormwater and pressure waterlines, 15,000 linear feet of deep sanitary sewer pipe including 2,500 linear feet of micro-tunneling. Shirley designed and constructed 185,000 square feet of absorptive sound barrier walls and erected 150,000 square feet of permanent MSE retaining walls. The project schedule was maintained pace and achieved an early completion bonus offered by VDOT for completing the project 4 months in advance of the specified project completion date.

ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

| a. Project Name & Location | b. Name of the prime/general contractor responsible for the overall construction of the project. | c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities. | d. Construction Contract Completion Date (Original) | e. Construction Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands) |
|---|--|---|---|--|--|--|--|
| | | | | | Construction Contract Value (Original) | Construction Contract Value (Actual or Estimated) | |
| Name: Battlefield Parkway Design-Build Location: Loudoun County, Virginia | Name: Shirley Contracting Company, LLC | Name of Client: VDOT 4975 Alliance Drive Fairfax, VA 22030 Project Manager: Susan Shaw, PE Phone: 703-259-1995 Email: susan.shaw@VDOT.Virginia.gov | November 2009 | November 2009 | \$ 24,527 | \$ 25,670* * Difference due to Owner added scope | \$ 2,542 |
| h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant. | | | | | | | |
| <p>Dewberry, serving as the Lead Designer and Shirley Contracting Company, LLC as the Lead Contractor, were selected by VDOT to design and construct 0.7 miles of Battlefield Parkway, a four-lane roadway, including dual 1,250 foot long bridges spanning the W&OD Trail and the Tuscarora Creek and associated floodplain. Dewberry provided all roadway design, bridge and structural design, geotechnical investigations and recommendations, stormwater management design, floodplain studies and scour analysis, environmental investigations and permitting, maintenance-of-traffic design, utility relocation design, and landscaping and lighting design. This project required coordination with the Northern Virginia Regional Park Authority (NVRPA) and DHR to reduce impacts and provide mitigation related to this new bridge over the W&OD Trail. Coordination was also required with VDOT and the Town of Leesburg during the design process since the Town was ultimately responsible for maintenance of the roadway following construction and acceptance of the project.</p> <p>The most significant element of this project was the design and construction of the eight-span, 1,250' long twin bridges carrying Battlefield Parkway over the W&OD Trail, Tuscarora Creek, and the associated floodplain. The construction cost of this bridge exceeded \$12 million and also included in-stream construction of 6 of the pier locations. Temporary stream crossings and a stream diversion were designed to maintain flows in the Tuscarora Creek and the adjacent streams and ditches draining into the floodplain, and pier locations were designed to economize the structural design and avoid a rise in the floodplain elevation.</p> <p>Through coordination with VDOT, the Town of Leesburg and adjacent landowners, the Shirley/Dewberry Team also successfully added ultimate intersection improvements at Russell Branch Parkway to the project. This addition will result in the Town not needing to reconstruct the roadway when Russell Branch is extended. Based on this early and constant coordination, a better overall product was delivered to the Department, adjacent landowners and the traveling public.</p> | | | | | | | |

ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

| a. Project Name & Location | b. Name of the prime/general contractor responsible for the overall construction of the project. | c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities. | d. Construction Contract Completion Date (Original) | e. Construction Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands) |
|--|--|--|---|--|--|---|--|
| | | | | | Construction Contract Value (Original) | Construction Contract Value (Actual or Estimated) | |
| Name: Route 28 Corridor Improvements Project Location: Fairfax and Loudoun Counties, Virginia | Name: Shirley Contracting Company, LLC | Name of Client: VDOT 4975 Alliance Drive Fairfax, VA 22030 Project Manager: Susan Shaw, PE Phone: 703-259-1995 Email: susan.shaw@VDOT.Virginia.gov | May 2007 | April 2013 | \$168,963 | \$350,800* *Difference due to Owner added scope, identified as options in original contract four additional interchanges. | \$25,740 |

h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant.

Dewberry, in the role of the Lead Designer as part of the **Design-Build Team led by Shirley Contracting Company LLC**, was selected by VDOT on the first Public-Private Transportation Act (PPTA) Project to be implemented in the Northern Virginia area. **This \$350M design-build project includes design and construction of ten grade-separated interchanges to replace at-grade signal-controlled intersections** along heavily-traveled Route 28 between I-66 and Route 7. Dewberry is responsible for all preliminary and final roadway and interchange design, bridge design, stormwater management, mapping, surveys, geotechnical investigations, environmental investigations, permitting, lighting design, utility relocation designs, floodplain studies, maintenance-of-traffic design and construction inspections. **This project included fourteen bridges with an overall construction value of over \$50M, and included a 1,400 l.f. curved girder bridge at the Route 28/625 interchange.** The original six interchanges were completed and opened to traffic on schedule before May 2007. The success and timely completion of the first six interchanges was a key element in the decision by the Tax District landowners, Loudoun County, Fairfax County and VDOT to extend the contract by issuing a change order for the remaining four (4) interchanges, which were completed and opened to traffic by November 2009.

In addition to the ten interchanges being constructed, the Team was also responsible for design and construction of numerous secondary road improvements including the widening of Centreville Road from two-lanes to four-lanes, a new four-lane section of Loudoun County Parkway from Smith Switch Road to Route 7, a new four-lane section of Atlantic Boulevard (including a new bridge over the W&OD Trail), and two additional sections of Pacific Boulevard, from Sterling Boulevard to Cedar Green Road and Severn Way to Nokes Boulevard. The Team is responsible for all design, permitting, right-of-way acquisition (residential and commercial properties), utility relocations, construction, quality assurance and quality control for all project work. Included with the design of the Loudoun County Parkway widening project were two bridge crossings of streams, including a twin single span bridge over Beaverdam Run and a single cell Conspan structure over Russell Branch. In-stream construction was required for both bridges, and temporary stream crossings were designed to facilitate construction of both structures while maintaining required flows in both channels.

The Design-Build Team worked diligently to accelerate portions of projects so that right-of-way acquisitions and utility relocations did not need to be completed prior to the start of construction. Constant communication between construction and design staff, facilitated by weekly meetings, helped to identify critical packages which needed to be finished early. In several cases, this resulted in advance steel packages for bridges, advance detour and MOT packages, or stand alone utility packages.

ATTACHMENT 4.2.6(b)

LEAD DESIGNER - WORK HISTORY FORM

| a. Project Name & Location | b. Name of the prime/general contractor responsible for the overall construction of the project. | c. Contact information of the Client and their Project Manager who can verify Firm's responsibilities. | d. Construction Contract Completion Date (Original) | e. Construction Contract Completion Date (Actual or Estimated) | f. Contract Value (in thousands) | | g. Design Fee for the Work Performed by the Firm identified as the Lead Designer for this procurement.(in thousands) |
|---|--|---|---|--|--|--|--|
| | | | | | Construction Contract Value (Original) | Construction Contract Value (Actual or Estimated) | |
| Name: Pacific Boulevard Location: Loudoun County, Virginia | Name: Shirley Contracting Company, LLC | Name of Client: VDOT 4975 Alliance Drive Fairfax, VA 22030 Project Manager: Christiana Briganti-Dunn, PE Phone: 703-259-2960 Christiana.briganti@VDOT.Virginia.gov | October 2010 | October 2010 | \$ 18,978 | \$19,190* * Difference due to Owner added scope | \$1,493 |

h. Narrative describing the Work Performed by the Firm identified as the Lead Designer for this procurement. Include the office location(s) where the design work was performed and whether the firm was the prime designer or a subconsultant.

Dewberry, in the role of the Lead Designer as part of the **Design-Build Team led by Shirley Contracting Company LLC**, completed the design for the extension of Pacific Boulevard from Auto World Circle to Severn Way, a distance of approximately 0.6 miles. Improvements included construction of a four-lane divided roadway and twin single-span bridges over the Washington & Old Dominion (W&OD) Trail and property and a two-span structure over Cabin Branch. As the Lead Designer, Dewberry was responsible for all field surveys, wetland delineations, environmental permit applications, roadway design, structural design, drainage and stormwater management design, signing and pavement marking plans, utility relocation plans, and temporary traffic control plans. Roadway improvements incorporated pedestrian and bicycle accommodations along the roadway with connections provided to the W&OD Trail.

As part of the design of the roadway improvements, close coordination was maintained with the property owner who was impacted by construction between the W&OD Trail and Severn Way. Based on the close coordination with this owner, the design-build Team was able to implement changes to the design plans without affecting the schedule of the project, incorporating intersection improvements which were an improvement to the property and accommodated future development, and more importantly allowed for all right-of-way required from the property owner to be dedicated at no cost to VDOT.

As part of this project, **construction of the Pacific Boulevard bridge over Cabin Branch required in-stream construction of the proposed bridge pier and abutments**, and design of a temporary stream crossing to accommodate construction while maintaining adequate flows in Cabin Branch. The location of the bridge pier was designed to require no impacts to the stream channel itself, and design of the abutments and pier accounted for design year flows and scour conditions. Drainage improvements, including two (2) stormwater management basins, were incorporated just outside of the floodplain limits and adjacent to the bridge in an effort to maintain adequate outfalls while not introducing a rise to the 100-year floodplain elevations.

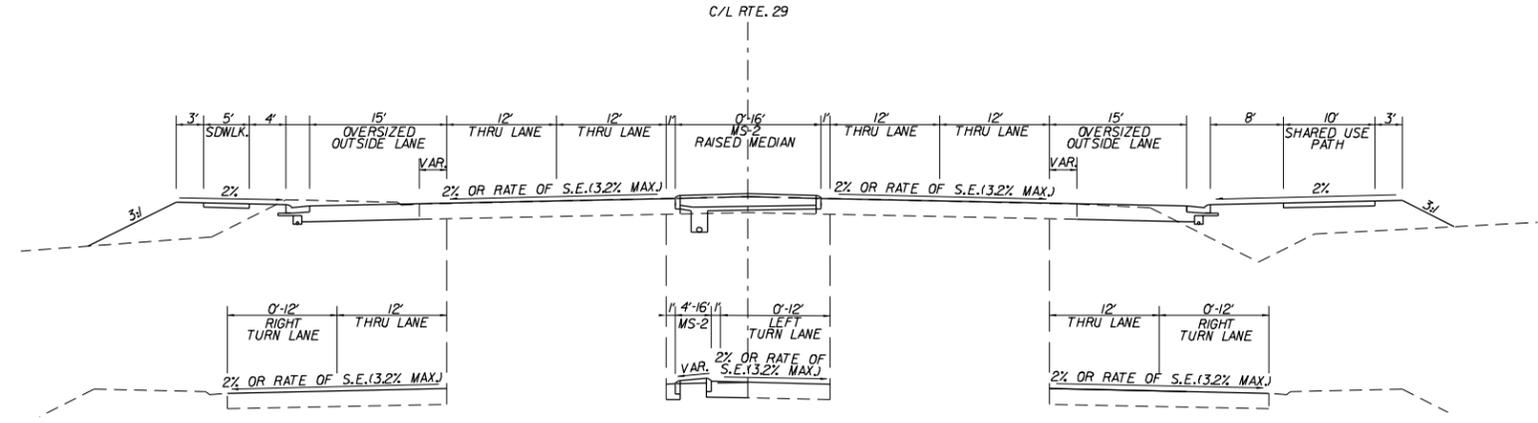
PROJECT MANAGER _____
 SURVEYED BY _____
 DESIGN SUPERVISED BY *Dewberry Consultants LLC* · (703) 289-4796
 DESIGNED BY *Dewberry Consultants LLC* · (703) 289-4796



| REVISION | STATE | | PROJECT | | SHEET NO. |
|----------|-------|-------|--------------|--------------|-----------|
| | STATE | ROUTE | PROJECT | PROJECT | |
| | VA | 29 | 0029-029-128 | RW-201 C-501 | 2A |

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Dewberry Consultants LLC
 Fairfax, Virginia
 ROADWAY ENGINEER



ROUTE 29

NOTE: All Construction, Widening and Overlay Pavement Sections will be in Accordance with Part 2, Section 2.6J of the RFP Documents.

| PLAT NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| A | 0029-029-128 | | 2A |

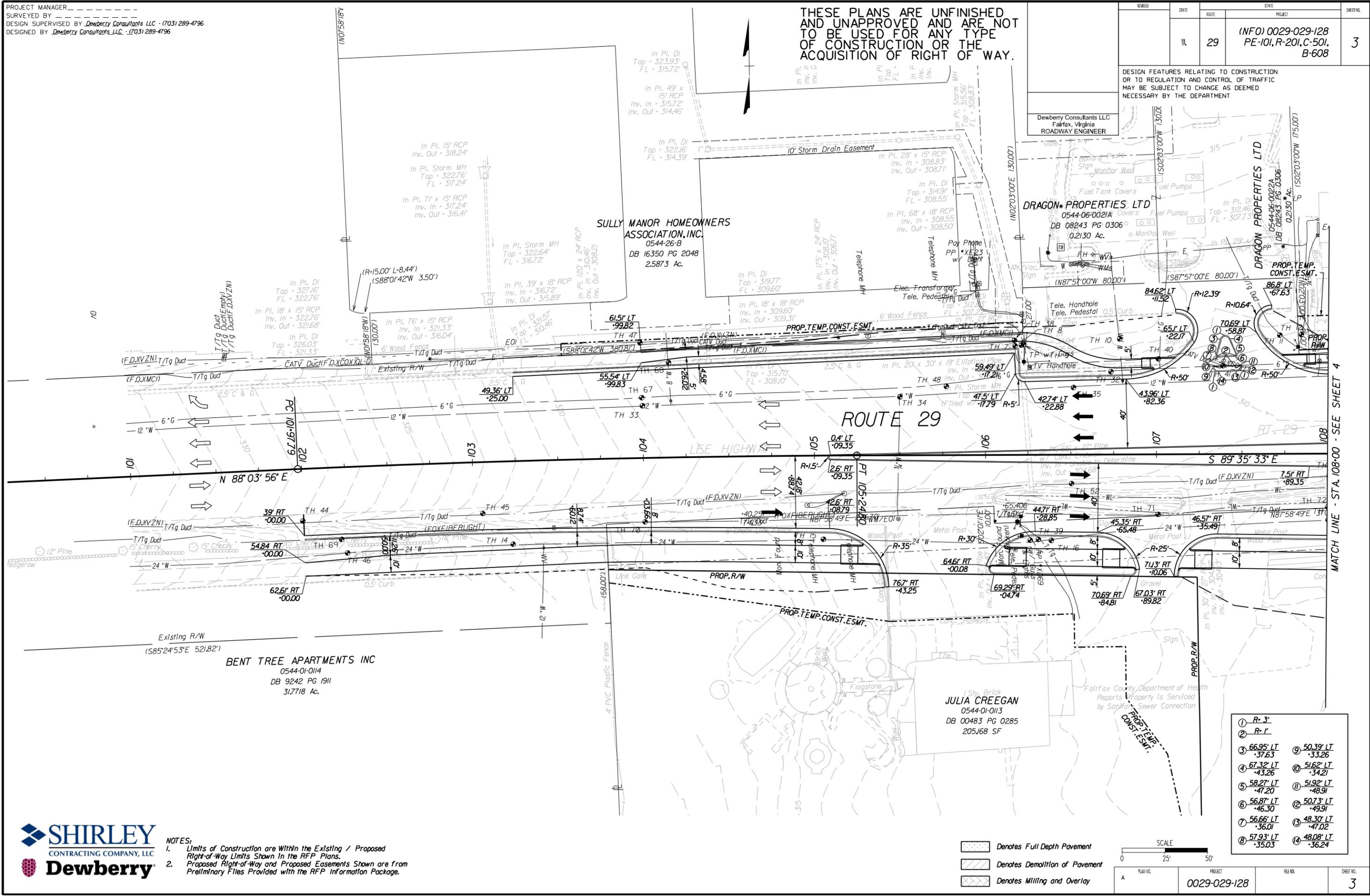
PROJECT MANAGER _____
 SURVEYED BY _____
 DESIGN SUPERVISED BY Dewberry Consultants LLC - (703) 289-4796
 DESIGNED BY Dewberry Consultants LLC - (703) 289-4796

THESE PLANS ARE UNFINISHED
 AND UNAPPROVED AND ARE NOT
 TO BE USED FOR ANY TYPE
 OF CONSTRUCTION OR THE
 ACQUISITION OF RIGHT OF WAY.

| REVISION | STATE | ROUTE | PROJECT | SHEET NO. |
|----------|-------|-------|---|-----------|
| | VA | 29 | (INFO) 0029-029-128 PE-101, R-201, C-501, B-608 | 3 |

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
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 NECESSARY BY THE DEPARTMENT

Dewberry Consultants LLC
 Fairfax, Virginia
 ROADWAY ENGINEER

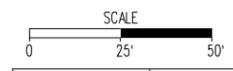


MATCH LINE - STA. 108+00 - SEE SHEET 4

- NOTES:
- Limits of Construction are Within the Existing / Proposed Right-of-Way Limits Shown in the RFP Plans.
 - Proposed Right-of-Way and Proposed Easements Shown are from Preliminary Files Provided with the RFP Information Package.

- Denotes Full Depth Pavement
- Denotes Demolition of Pavement
- Denotes Milling and Overlay

| | |
|-----------------------|-----------------------|
| ① R-3' | ⑨ 50.39' LT -33.26 |
| ② R-1' | ⑩ 51.62' LT -34.21 |
| ③ 66.95' LT -37.63 | ⑪ 51.92' LT -48.91 |
| ④ 67.32' LT -43.26 | ⑫ 50.73' LT -49.91 |
| ⑤ 58.27' LT -47.20 | ⑬ 48.30' LT -47.02 |
| ⑥ 56.87' LT -46.30 | ⑭ 48.08' LT -36.24 |
| ⑦ 56.66' LT -36.01 | |
| ⑧ 57.93' LT -35.03 | |



| PLANNING | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| A | 0029-029-128 | | 3 |



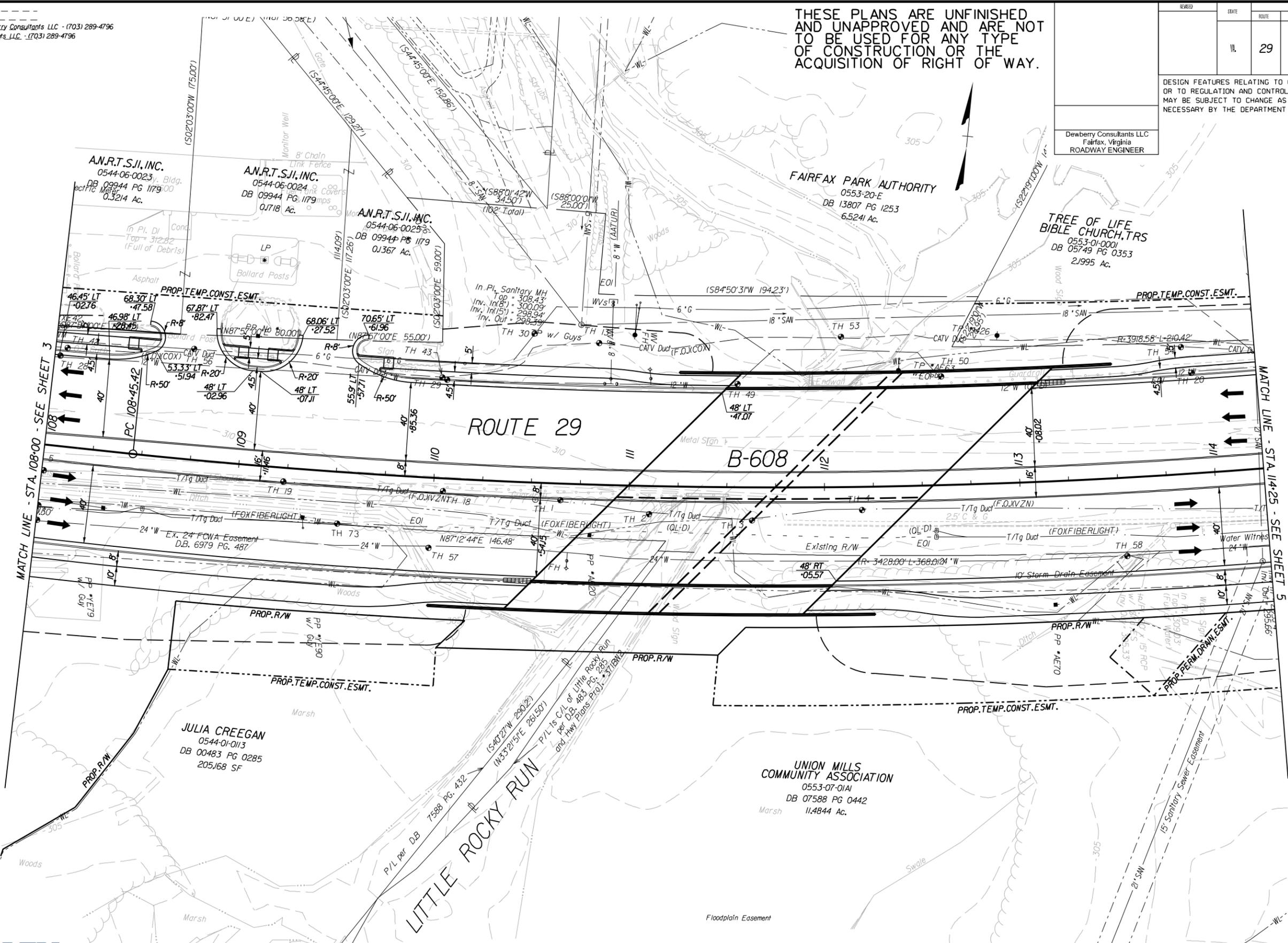
PROJECT MANAGER _____
 SURVEYED BY _____
 DESIGN SUPERVISED BY Dewberry Consultants LLC - (703) 289-4796
 DESIGNED BY Dewberry Consultants LLC - (703) 289-4796

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| REVISION | STATE | ROUTE | PROJECT | SHEET NO. |
|----------|-------|-------|---|-----------|
| | VA | 29 | (INFO) 0029-029-128 PE-101, R-201, C-501, B-608 | 4 |

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT

Dewberry Consultants LLC
 Fairfax, Virginia
 ROADWAY ENGINEER



MATCH LINE - STA. 108+00 - SEE SHEET 3

MATCH LINE - STA. 114+25 - SEE SHEET 5



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- Denotes Milling and Overlay



| PLAT NO. | PROJECT | FILE NO. | SHEET NO. |
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| A | 0029-029-128 | | 4 |

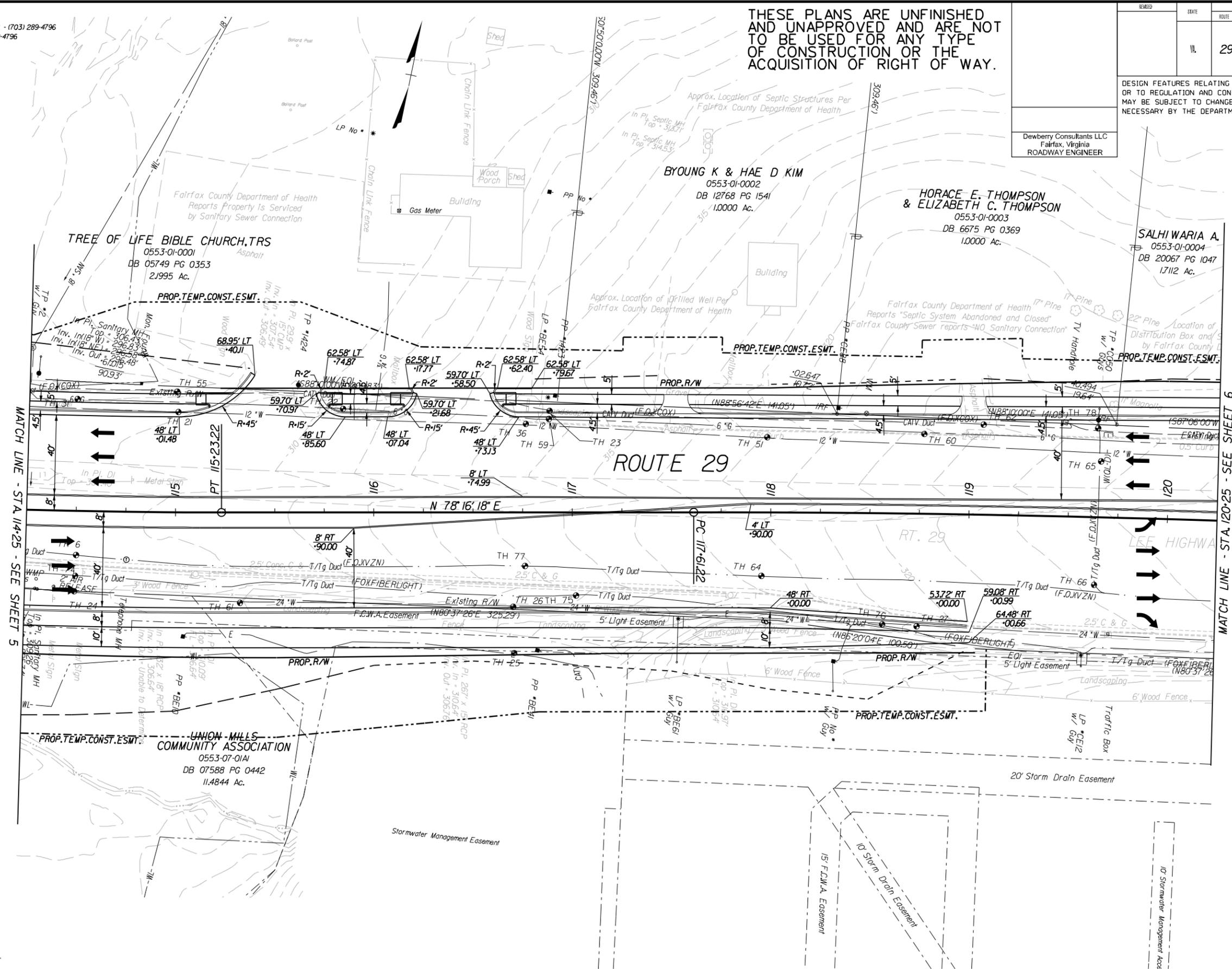
PROJECT MANAGER _____
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| REVISION | STATE | ROUTE | PROJECT | SHEET NO. |
|----------|-------|-------|---|-----------|
| | VA | 29 | (INFO) 0029-029-128 PE-101, R-201, C-501, B-608 | 5 |

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
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Dewberry Consultants LLC
 Fairfax, Virginia
 ROADWAY ENGINEER

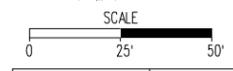


MATCH LINE - STA 114+25 - SEE SHEET 5

MATCH LINE - STA 120+25 - SEE SHEET 6

- NOTES:
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- Denotes Demolition of Pavement
- Denotes Milling and Overlay



| PLAT NO. | PROJECT | FILE NO. | SHEET NO. |
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| A | 0029-029-128 | | 5 |



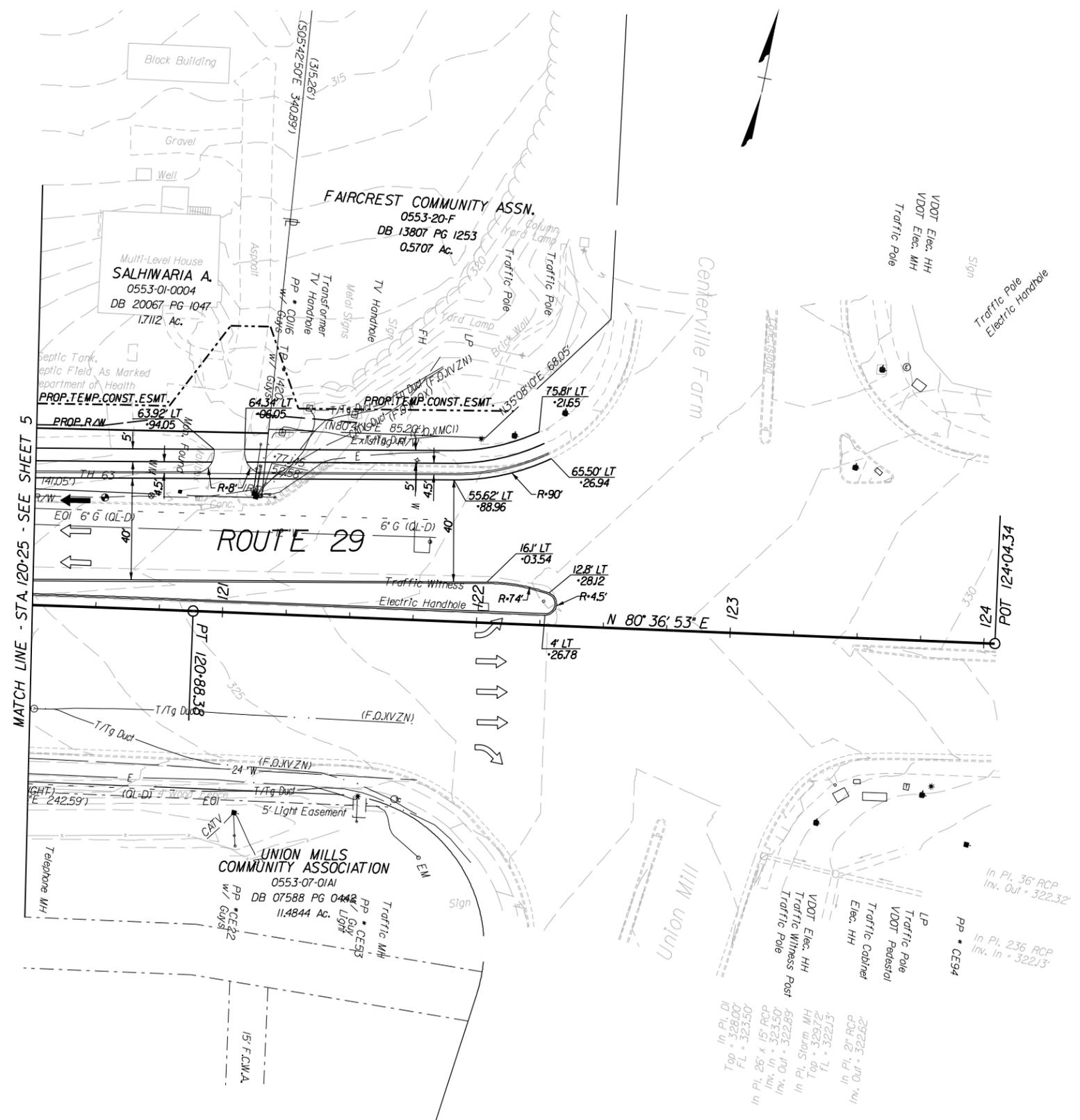
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| REVISION | STATE | ROUTE | STATE | SHEET NO. |
|----------|-------|-------|--|-----------|
| | | | PROJECT | |
| | VA | 29 | (NFO) 0029-029-128 PE-101, R-201, C-501, B-608 | 6 |

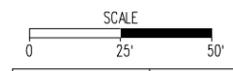
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 Fairfax, Virginia
 ROADWAY ENGINEER



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| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| A | 0029-029-128 | | 6 |

| | | | |
|-----------------------------|-------------|-----------------------------------|-----------|
| STATE | FEDERAL AID | STATE | SHEET NO. |
| ROUTE | PROJECT | ROUTE | PROJECT |
| VA. | | | |
| NBIS Number: | | UPC No. | |
| Federal Oversight Code: N/A | | FHWA Construction and Scour Code: | |

DESIGN EXCEPTION(S):

GENERAL NOTES:

Width: 7'-0" sidewalk, 42'-0" roadway, 16'-0" median, 42'-0" roadway, 14'-0" shared use path.

Span layout: 78'-0"-78'-0" prestressed concrete box girder spans continuous for live load.

Capacity: HL-93 loading.

Drainage area: 2.96 sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2007.

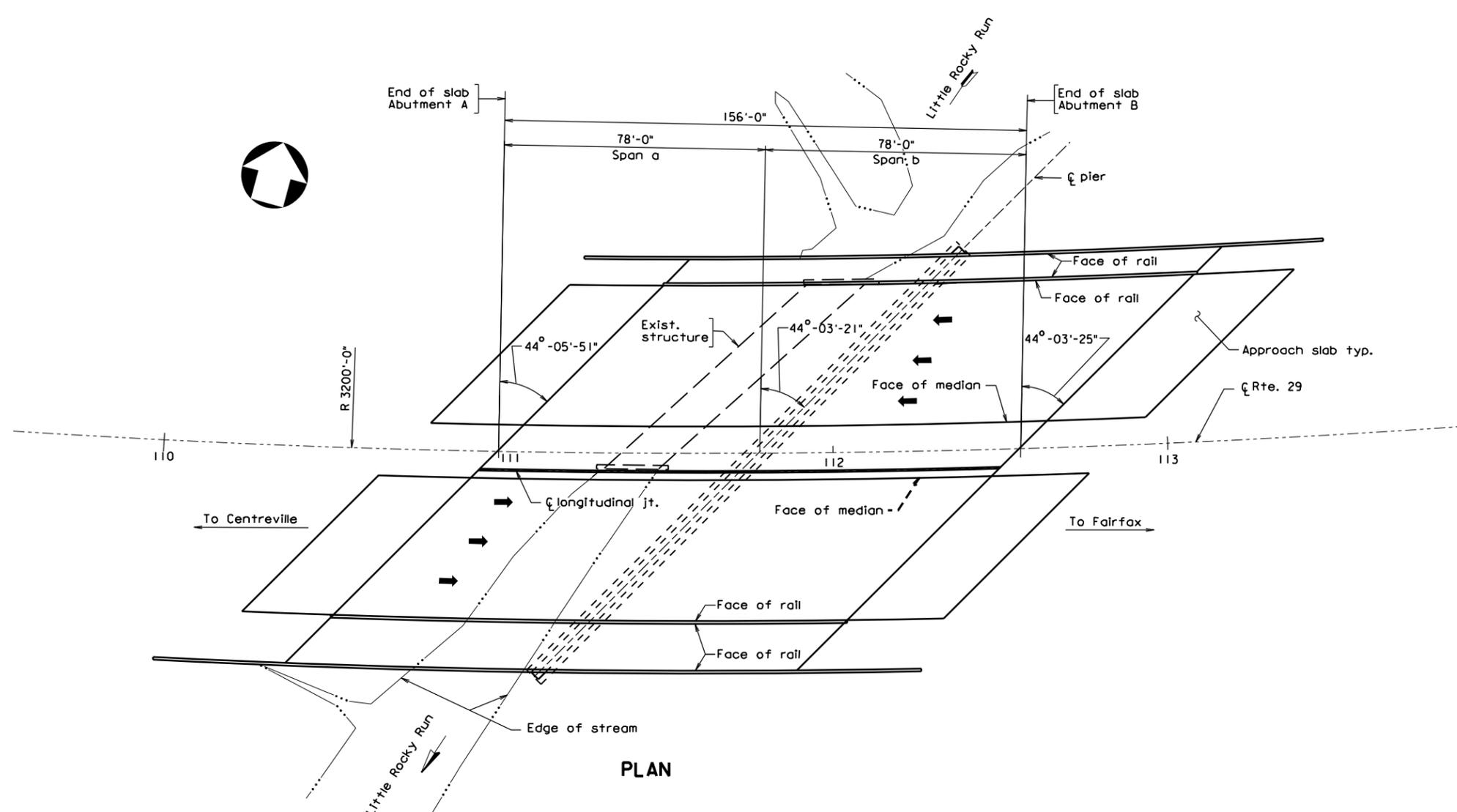
Design: AASHTO LRFD Bridge Design Specifications, 5th Edition, 2010; 2010 Interim specifications and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2008.

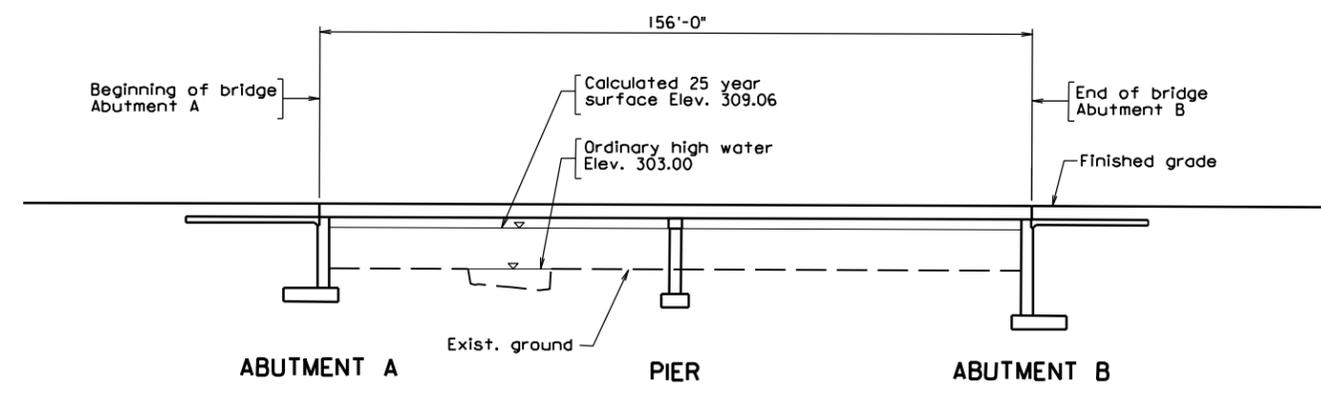
These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contact documents.

These project is to be constructed in accordance with the Virginia Department of Transportation Work Area Protection Manual, June 2011 and latest revisions.

Bridge No. of existing bridge is 1069.



PLAN



DEVELOPED SECTION ALONG C RTE. 29


COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE ON
RTE. 29 (LEE HIGHWAY) OVER LITTLE ROCKY RUN
FAIRFAX COUNTY - 0.9 MI. E. RTE. 28
PROJ: 0029-029-128, PE101, B608

Recommended for Approval: _____
State Structure and Bridge Engineer Date

Approved: _____
Chief Engineer Date

Date: _____ © 2013 Commonwealth of Virginia Sheet 1 of

\$DCONS

| | |
|--------------|--|
| PLANS BY: | |
| COORDINATED: | |
| SUPERVISED: | |
| DESIGNED: | |
| DRAWN: | |
| CHECKED: | |




| No. | Description | Date |
|--------------------------------------|-------------|------|
| REVISIONS | | |
| For Table of Revisions, see Sheet 2. | | |

RESPONSE TO REQUEST FOR PROPOSALS

ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN

A DESIGN-BUILD PROJECT
FAIRFAX COUNTY, VIRGINIA

PRICE PROPOSAL



State Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

Contract ID Number: C00077322DB52

Submitted To:



Submitted By:



In Association With:



ATTACHMENT 4.0.1.2

**DESIGN-BUILD PRICE PROPOSAL
CHECKLIST**

**Project Name: ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN
Contract ID Number: C00077322DB52**

➤ **Contents of Price Proposal:**

- Proposal Price, in both numbers and words (Attachment 4.3.1)**
 - Price Adjustment Information and Forms for Fuel, Asphalt and Steel, including identification of pay items and associated quantities eligible for adjustment (Part 3, Section 6.3, Attachments 6.3)**
 - Proposal Guaranty (C-24) required by Section 102.07 of Part 5, Division I Amendments to the Standard Specifications**
 - Sworn Statement Forms (C-104, C-105, Attachments 4.8.7(a) and 4.8.7(b))**
 - DBE Requirements Forms (C-111, C-49 and C-112) as applicable (Attachments 4.3.5(a), 4.3.5(b) and 4.3.5(c))**
 - CD-ROM containing the entire Price Proposal in a single cohesive Adobe PDF file**
-

ATTACHMENT 4.3.1

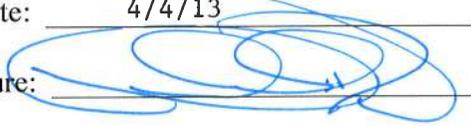
PRICE PROPOSAL FORM

4.3.1 Offeror shall specify, the following pricing information, in both numbers and words:

.1 Proposal Price;

Lump Sum Eleven Million Four hundred thirty
three thousand dollars (\$ 11,433,000.-)

Date: 4/4/13

Signature: 

Design-Builder: Shirley Contracting Company, LLC

Vendor No.: S018

EXHIBIT 6.3(a)
ADJUSTMENT FOR ASPHALT
SPECIAL PROVISION FOR
ASPHALT MATERIAL PRICE ADJUSTMENT
DESIGN-BUILD PROJECTS

June 30, 2011

In the event the Design-Builder elects to seek adjustment for asphalt items designated in the Price Proposal\Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract. If new pay items which contain Asphalt Material are established by Work Order, they will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

Each month, the Department will publish an average state-wide PG 64-22 f.o.b. price per ton developed from the average terminal prices provided to the Department from suppliers of asphalt cement to contractors doing work in Virginia. The Department will collect terminal prices from approximately 12 terminals each month. These prices will be received once each month from suppliers on or about the last weekday of the month. The high and low prices will be eliminated and the remaining values averaged to establish the average statewide price for the following month. That monthly state-wide average price will be posted on the Scheduling and Contract Division website on or about the first weekday of the following month.

This monthly statewide average price will be the Base Index for all contracts on which bids are received during the calendar month of its posting and will be the Current Index for all asphalt placed during the calendar month of its posting. In the event an index changes radically from the apparent trend, as determined by the Engineer, the Department may establish an index which is determined to best reflect the trend.

The amount of adjustment applied will be based on the difference between the Price Proposal\Contract Base Index and the Current Index for the applicable calendar month during which the work is performed. Adjustment of any asphalt material item designated as a price adjustment item which does not contain PG 64-22, except PG 76-22, will be based on the indexes for PG 64-22. The quantity of asphalt cement for asphalt concrete pavement to which adjustment will be applied will be the quantity based on the percent of asphalt cement shown on the appropriate approved job mix formula.

The quantity of asphalt emulsion for surface treatments to which adjustment will be applied will be the quantity based on 65 percent residual asphalt.

Price adjustment will be shown as a separate entry on the monthly application of payment for work packages completed; however, such adjustment will not be included in the total cost of the work for progress determination or for extension of contract time.

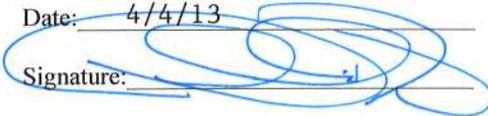
In order to be eligible for asphalt price adjustment under this provision, the Design-Builder shall clearly identify in its Price Proposal those pay items and the associated quantities it chooses to have asphalt price adjustment applied to in its work packages. Items the Design-Builder claims in its application of payment for asphalt adjustments must be properly designated in order to be considered for adjustment. Items not properly designated or left out of the Design-Builder's Price Proposal will automatically not be considered for adjustment.

Any apparent attempt to unbalance bids in favor of items subject to price adjustment or failure to submit required cost and price data as noted hereinbefore may result in rejection of items for asphalt adjustment.

I elect to use this provision

I elect not to use this provision

Date: 4/4/13

Signature: 

Design-builder: Shirley Contracting Co., LLC

Vendor No.: S018

EXHIBIT 6.3(b)

Form C-16a
7-13-05

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PRICE ADJUSTMENT

INSTRUCTIONS - This form is to be completed and returned ONLY when asphalt concrete items are designated for price adjustment on the bid price sheets.

PROJECT NUMBER: 0029-029-128, PE101, RW201, C501

DISTRICT: Northern Virginia

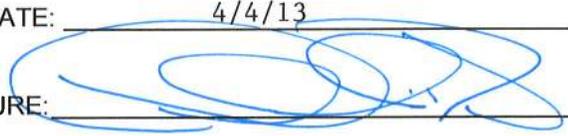
Bid Prices in this contract for items containing PG 64-22 asphalt cement were developed using an f.o.b. price of \$ 549.50 per IMPERIAL ton for PG 64-22. This quote will be averaged into the monthly price index.

Bid Prices in this contract for items containing PG 76-22 asphalt cement were developed using an f.o.b. price of \$ _____ per IMPERIAL ton for PG 76-22. This quote is project specific.
(When required by provisions)

Price quotes signed by each supplier from which the Design-Builder proposes to obtain PG 64-22 or PG 76-22 shall be maintained by the successful bidder. These quotes shall be retained on site during the life of the Contract for review by the Engineer upon request.

I elect to use this provision
 I elect not to use this provision

DATE: 4/4/13

SIGNATURE: 

Shirley Contracting Company, LLC
(Firm or Corporation)

S018
(Vendor No.)

**EXHIBIT 6.3 (c)
ADJUSTMENT FOR FUEL**

**VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
OPTIONAL ADJUSTMENT FOR FUEL
DESIGN-BUILD PROJECTS**

June 30, 2011

In the event the Design-Builder elects to seek adjustment for fuel items designated in the Price Proposal/Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. Other items will not be adjusted, except as otherwise specified in the contract.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in fuel used on specific items of work identified in this provision. A master listing of standard items eligible for fuel adjustment is provided by the Department on its website at the following link <http://www.virginiadot.org/business/resources/masteroptionalfuelitems.pdf>. The listing on the web site also includes the corresponding fuel factor for each item. The fuel usage factor for each item is considered inclusive of all fuel usage.

The amount of adjustment will be computed from the change in the indexes and the on-site fuel use as shown in the Department's master listing of eligible items.

In order to be eligible for fuel adjustment under this provision, the Design-Builder shall clearly identify in its Price Proposal those pay items and the associated quantities it chooses to have fuel adjustment applied to in its work packages. Items the Design-Builder claims in its application of payment for fuel adjustments must be properly designated in order to be considered for adjustment. Items not properly designated or left out of the Design-Builder's Price Proposal will automatically not be considered for adjustment.

The monthly index price to be used in the administration of this provision will be calculated by the Department from the Diesel fuel prices published by the U. S. Department of Energy, Energy Information Administration on highway diesel prices, for the Lower Atlantic region. The monthly index price will be the price for diesel fuel calculated by averaging each of the weekly posted prices for that particular month.

For the purposes of this provision, the base index price will be calculated using the data from the month preceding the receipt of bids. The base index price will be posted by the Department at the beginning of the month for all bids received during that month.

The current index price will be posted by the Department and will be calculated using the data from the month preceding the particular estimate being vouchered for payment.

The current monthly quantity for eligible items of work selected by the Design-Builder for fuel adjustment in its work packages will be multiplied by the appropriate fuel factor to determine the gallons of fuel to be cost adjusted. The amount of adjustment per gallon will be the net difference between the current index price and the base index price. Computation for adjustment will be made as follows:

$$S = (E - B) QF$$

Where; S = Monetary amount of the adjustment (plus or minus)
B = Base index price
E = Current index price

Q = Quantity of individual units of work
F = Appropriate fuel factor

Adjustments will not be made for work performed beyond the original contract time limit unless the original time limit has been changed by an executed Work Order.

If new pay items are added to this contract by Work Order and they are listed in the Department's master listing of eligible items, the Work Order must indicate which of these individual items will be fuel adjusted; otherwise, those items will not be fuel adjusted. If applicable, designating which new pay items will be added for fuel adjustment must be determined during development of the Work Order and clearly shown on the Work Order form. The Base Index price on any new eligible pay items added by Work Order will be the Base Index price posted for the month in which bids were received for that particular project. The Current Index price for any new eligible pay items added by Work Order will be the Index price posted for the month preceding the estimate on which the Work Order is paid.

When quantities differ between the last monthly application of payment prepared upon final acceptance and the final application of payment, adjustment will be made using the appropriate current index for the period in which that specific item of work was last performed.

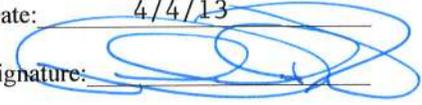
In the event any of the base fuel prices in this contract increase more than 100 percent (i.e. fuel prices double), the Department will review each affected item of work and give the Design-Builder written notice if work is to stop on any affected item of work. The Department reserves the right to reduce, eliminate or renegotiate the price for remaining portions of affected items of work.

Any amounts resulting from fuel adjustment will not be included in the total cost of work for determination of progress or for extension of contract time.

I elect to use this provision

I elect not to use this provision

Date: 4/4/13

Signature: 

Design-builder: Shirley Contracting Co., LLC

Vendor No.: S018

**EXHIBIT 6.3(d)
ADJUSTMENT FOR STEEL**

**VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION FOR
PRICE ADJUSTMENT FOR STEEL
DESIGN-BUILD PROJECTS**

June 30, 2011

In the event the Design-Builder elects to seek adjustment for steel items designated in the Price Proposal/Contract as Price Adjustment Items such items will be subject to price adjustment as set forth herein. If new pay items which involve steel are established by Work Order, they will not be subject to Price Adjustment unless specifically designated in the Work Order to be subject to Price Adjustment.

The Design-Builder will submit their monthly application for payment associated with eligible work packages with an adjustment up or down as appropriate for cost changes in steel used on specific items of work identified in the Price Proposal/contract in accordance with this provision. Provided at the end of this provision is a master listing of standard bid items the Department has determined are eligible for steel price adjustment. Inventoried materials from the listing of eligible items are specifically excluded for consideration. In addition, concrete items where reinforcing steel is normally included in the unit bid price for the item such as (but not limited to) drop inlets, median barriers, sound barrier walls, bridge railing and parapets, are not eligible for consideration under this provision.

The requirements of this provision shall apply only to material cost changes that occur between the date of the opening of the Price Proposal and the date the material is shipped to the fabricator. To be eligible for this price adjustment, Design-Builder is required to fill out the accompanying Form for Price Adjustment for Eligible Steel Items on Design-Build Projects and submit the same with its Price Proposal for the Project. By signing the Form and submitting it with its Price Proposal Design-Builder declares its intention to participate in the price adjustment in its contract with the Department. For the purposes of this provision, the prices listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build projects are fixed for cost and adjustment calculations regardless of quantities incorporated into final design. Further, in order for steel items to be eligible for adjustment, once shipped to the fabricator, the items shall be specifically stored, labeled, or tagged, recognizable by color marking, and identifiable by project for inspection and audit verification.

Design-Builder shall upon request furnish documentation supporting the price per pound for eligible steel items as shown on the Form for Price Adjustment for Eligible Steel Items on Design-Build Projects furnished with its Price Proposal. Design-Builder must use the format as shown with this Form; no other format for presenting this information will be permitted. Design-Builder shall certify that all items of documentation are original and were used in the computation of the price per pound amount for the represented eligible pay items for the month the Price Proposal was opened. This documentation shall support the base line material price ("Base Price") of the steel item only. Base price per pound shall not include the following cost components: fabrication, shipping, storage, handling, and erection.

Failure to submit all documentation required or requested supporting the per pound prices on eligible steel items will result in Design-Builder being ineligible for a price adjustment of any or all steel items.

Price adjustment of each qualifying item under consideration will be subject to the following condition:

There is an increase or decrease in the cost of eligible steel materials in excess of 10 percent up to a maximum of 60 percent from the Base Price when compared with the latest published price index ("Price Index") in effect at the time material is shipped to the fabricator.

The Price Index the Department is using is based on The U.S. Department of Labor, Bureau of Labor Statistics, Producers Price Index (PPI) which measures the average price change over time of the specific steel eligible item from the perspective of the seller of goods. The Master List table provided at the end of this provision indicates the Producers Price Index (PPI) steel category index items and the corresponding I.D. numbers to which VDOT items will be compared. **Please note:** The Producers Price Index (PPI) is subject to revision 4 months after original publication, therefore, price adjustments and payments will not be made until the index numbers are finalized.

The price adjustment will be determined by computing the percentage of change in index value beyond 10 percent above or below the index on the date of opening of Design-Builder's Price Proposal to the index value on the date the steel material is shipped to the fabricator (Please see included sample examples). Weights and date of shipment must be documented by a bill of lading provided to the Department. The final price adjustment dollar value will be determined by multiplying this percent increase or decrease in the index (after 10%) by the represented quantity of steel shipped, by the Base Price per pound subject to the limitations herein.

Price increase/decrease will be computed as follows:

$$A = B \times P \times Q$$

- Where;
- A = Steel price adjustment in lump sum dollars
 - B = Average weighted price of steel submitted in Design-Builder's Price Proposal for project in price per pound as listed on the Form for Price Adjustment for Eligible Steel Items on Design-Build Project
 - P = Adjusted percentage change in PPI average from shipping date to date of opening of Price Proposal minus 10% (0.10) threshold
 - Q = Total quantity of steel in pounds shipped to fabricator for specific project

The need for application of the adjustments herein to extra work will be determined by the Engineer on an individual basis and, if appropriate, will be specified on the Work Order.

This price adjustment is capped at 60 percent. This means the maximum "P" value for increase or decrease that can be used in the above equation is 50% (60%-10% threshold).

Calculations for price adjustment shall be shown separate from the monthly progress payment for work packages and will not be included in the total cost of work for determination of progress or for extension of contract time.

Upon Department review and due process consideration for redress by Design-Builder, any apparent evidence to unbalance the price supplied by Design-Builder in favor of items subject to price adjustment will result in ineligibility for Department participation under this provision.

Sample Calculation of a Price Adjustment (increase)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is \$0.2816 per pound. *free on board

Adjusted** BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 139.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 161.1

Adjustment formula is as follows:

$$A = B \times P \times Q$$

- Where;
- A = Steel price adjustment in lump sum dollars
 - B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in \$ per pound
 - P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
 - Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

$$B = \$0.2816$$

$$P = (161.1 - 139.6) / 139.6 - 0.10 = 0.054$$

$$Q = 450,000 \text{ lb.}$$

$$A = 0.2816 \times 0.054 \times 450,000$$

$$A = \$6,842.88 \text{ pay adjustment to Design-Builder}$$

Sample Calculation of a Price Adjustment (decrease)

Project bid on April 28, 2004.

Project has 450,000 lb. of eligible structural steel.

Design-Builder's *f.o.b. supplier price for structural steel submitted in the Price Proposal is \$0.2816 per pound. *free on board

Adjusted BLS Producers Price Index (PPI) most recently published average at time of opening of the Price Proposal is 156.6.

All eligible steel shipped to fabricator in same month, October 2004.

Adjusted BLS Producers Price Index (PPI) most recently published average for month of October is 136.3

Adjustment formula is as follows:

$$A = B \times P \times Q$$

Where;

- A = Steel price adjustment in lump sum dollars
- B = Average weighted price of steel submitted in the Price Proposal for Design-Build project in \$ per pound
- P = Adjusted percentage change in PPI average from shipping date to date of submitted Price Proposal minus 10% (0.10) threshold
- Q = Total quantity of eligible steel shipped to fabricator in October 2004 for this project in pounds

$$B = \$0.2816$$

$$P = (156.6 - 136.3)/156.6 - 0.10 = 0.030$$

$$Q = 450,000 \text{ lb.}$$

$$A = 0.2816 \times 0.030 \times 450,000$$

$$A = \$3,801.60 \text{ credit to Department}$$

MASTER LISTING

STANDARD BID ITEMS ELIGIBLE FOR STEEL PRICE ADJUSTMENT

March 18, 2009

BLS Series I. D.

| ITEM NUMBER | ITEM DESCRIPTION | UNITS | Number WPU used in \$ adjust. |
|--------------------|--|--------------|--|
| 00519 | SHEET PILE, STEEL | SF | avg. 1017 & 101 |
| 00540 | REINF. STEEL | LB | 101704 |
| 00542 | EPOXY COATED REINF. STEEL | LB | 101704 |
| 00560 | STRUCTURAL STEEL JB-1 | LB | avg. 1017 & 101 |
| 11030 | REINF. STEEL BRIDGE APPR. SLAB | LB | 101704 |
| 11181 | PATCH.HYDR.CEM.CONC. PAVE. | SY | 101704 |
| 13290 | GUARDRAIL GR-8 (NCHRP 350 TL-3) | LF | avg. 1017 & 101 |
| 13292 | GUARDRAIL GR-8A (NCHRP 350 TL-3) | LF | avg. 1017 & 101 |
| 13294 | GUARDRAIL GR-8B (NCHRP 350 TL-3) | LF | avg. 1017 & 101 |
| 13310 | GUARDRAIL TERMINAL GR-6 (NCHRP 350) | LF | avg. 1017 & 101 |
| 13320 | GUARDRAIL GR-2 | LF | avg. 1017 & 101 |
| 13323 | GUARDRAIL GR-2A | LF | avg. 1017 & 101 |
| 13331 | RAD. GUARDRAIL GR-2 | LF | avg. 1017 & 101 |
| 13333 | RAD. GUARDRAIL GR-2A | LF | avg. 1017 & 101 |
| 13335 | GUARDRAIL GR-3 | LF | avg. 1017 & 101 |
| 13341 | GUARDRAIL TER. GR-6(WEATHERING STEEL | LF | avg. 1017 & 101 |
| 13351 | GUARDRAIL GR-8 | LF | avg. 1017 & 101 |
| 13352 | GUARDRAIL GR-8A | LF | avg. 1017 & 101 |
| 13353 | GUARDRAIL GR-8B | LF | avg. 1017 & 101 |
| 13355 | GUARDRAIL GR-10 | LF | avg. 1017 & 101 |
| 13421 | MEDIAN BARRIER MB-3 | LF | avg. 1017 & 101 |
| 13450 | MEDIAN BARRIER MB-5 | LF | avg. 1017 & 101 |
| 13451 | MEDIAN BARRIER MB-5A | LF | avg. 1017 & 101 |
| 13452 | MEDIAN BARRIER MB-5B | LF | avg. 1017 & 101 |
| 13545 | REINF. STEEL | LB | 101704 |
| 14502 | REINFORCING STEEL | LB | 101704 |
| 15290 | PATCH.CEM.CONC.PAVE.TY.CRCP-A | SY | 101704 |
| 15302 | PATCH.CEM.CONC.PAVE. TY. II | SY | 101704 |
| 15305 | PATCH.CEM.CONC.PAVE.TY. IV-A | SY | 101704 |
| 17323 | GUARDRAIL BEAM * | LF | avg. 1017 & 101 |
| 17325 | RADIAL GUARDRAIL BEAM * | LF | avg. 1017 & 101 |
| 17327 | RUB RAIL | LF | avg. 1017 & 101 |
| 17353 | CABLE GR-3 | LF | avg. 1017 & 101 |
| 17521 | GUARDRAIL BEAM (WEATHERING STEEL) | LF | avg. 1017 & 101 |
| 17523 | RADIAL GUARDRAIL BEAM (WEATHERING STEEL) | LF | avg. 1017 & 101 |
| 17525 | RUB RAIL (WEATHERING STEEL) | LF | avg. 1017 & 101 |
| 22501 | FENCE FE-W1 | LF | avg. 1017 & 101 |
| 22643 | FENCE FE-CL | LF | avg. 1017 & 101 |
| 22645 | FENCE FE-CL VINYL COATED | LF | avg. 1017 & 101 |
| 23043 | WATER GATE FE-4 TY.III | LF | avg. 1017 & 101 |
| 23501 | FENCE FE-W1 (FABRIC ONLY) | LF | avg. 1017 & 101 |
| 45522 | 4" STEEL ENCASE. PIPE | LF | 101706 |
| 45532 | 6" STEEL ENCASE. PIPE | LF | 101706 |
| 45562 | 16" STEEL ENCASE. PIPE | LF | 101706 |

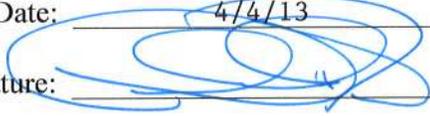
| | | | |
|-------|--|----|-----------------|
| 45572 | 18" STEEL ENCASE. PIPE | LF | 101706 |
| 45582 | 24" STEEL ENCASE. PIPE | LF | 101706 |
| 45584 | 24" JACKED STEEL ENCASMENT PIPE | LF | 101706 |
| 45592 | 30" STEEL ENCASE. PIPE | LF | 101706 |
| 50402 | SIGN POST STEEL 3" | LF | 101706 |
| 50404 | SIGN POST STEEL 4" | LF | 101706 |
| 50406 | SIGN POST STEEL 6" | LF | 101706 |
| 50410 | SIGN POST STEEL 10" | LF | 101706 |
| 50412 | SIGN POST STEEL 12" | LF | 101706 |
| 50414 | SIGN POST STEEL 14" | LF | 101706 |
| 50416 | SIGN POST STEEL 16" | LF | 101706 |
| 50418 | SIGN POST STEEL 18" | LF | 101706 |
| 51317 | SIG. POLE MP-1 20' ONE ARM 30' | EA | 101706 |
| 51319 | SIG. POLE MP-1 20' ONE ARM 32' | EA | 101706 |
| 51325 | SIG. POLE MP-1 20' ONE ARM 38' | EA | 101706 |
| 51327 | SIG. POLE MP-1 20' ONE ARM 40' | EA | 101706 |
| 51329 | SIG. POLE MP-1 20' ONE ARM 42' | EA | 101706 |
| 51331 | SIG. POLE MP-1 20' ONE ARM 44' | EA | 101706 |
| 51337 | SIG. POLE MP-1 20' ONE ARM 50' | EA | 101706 |
| 51339 | SIG. POLE MP-1 20' ONE ARM 52' | EA | 101706 |
| 51341 | SIG. POLE MP-1 20' ONE ARM 54' | EA | 101706 |
| 51344 | SIG. POLE MP-1 20' ONE ARM 56' | EA | 101706 |
| 51346 | SIG. POLE MP-1 20' ONE ARM 58' | EA | 101706 |
| 51347 | SIG. POLE MP-1 20' ONE ARM 60' | EA | 101706 |
| 51348 | SIG. POLE MP-1 20' ONE ARM 62' | EA | 101706 |
| 51368 | SIG.POLE MP-1 20'TWO ARMS 36'& 42' | EA | 101706 |
| 51400 | SIG.POLE MP-1 CO.LU.ONE ARM 38 | EA | 101706 |
| 51402 | SIG.POLE MP-1 CO.LU.ONE ARM 40 | EA | 101706 |
| 51408 | SIG.POLE MP-1 CO.LU.ONE ARM 46 | EA | 101706 |
| 51412 | SIG.POLE MP-1 CO.LU.ONE ARM 50 | EA | 101706 |
| 51414 | SIG.POLE MP-1 CO.LU.ONE ARM 52 | EA | 101706 |
| 51416 | SIG.POLE MP-1 CO.LU.ONE ARM 54 | EA | 101706 |
| 51418 | SIG.POLE MP-1 CO.LU.ONE ARM 56 | EA | 101706 |
| 51420 | SIG.POLE MP-1 CO.LU.ONE ARM 58 | EA | 101706 |
| 51422 | SIG.POLE MP-1 CO.LU.ONE ARM 60 | EA | 101706 |
| 55162 | LIGHTING POLE LP-1 30'-4' | EA | 101706 |
| 55163 | LIGHTING POLE LP-1 30'-6' | EA | 101706 |
| 55166 | LIGHTING POLE LP-1 30'-12' | EA | 101706 |
| 55169 | LIGHTING POLE LP-1 35'-6' | EA | 101706 |
| 55171 | LIGHTING POLE LP-1 35'-10' | EA | 101706 |
| 55176 | LIGHTING POLE LP-1 40'-8' | EA | 101706 |
| 55185 | LIGHTING POLE LP-2 TYPE A | EA | 101706 |
| 55186 | LIGHTING POLE LP-2 TYPE B | EA | 101706 |
| 55187 | LIGHTING POLE LP-2 TYPE C | EA | 101706 |
| 55188 | LIGHTING POLE LP-2 TYPE D | EA | 101706 |
| 55189 | LIGHTING POLE LP-2 TYPE E | EA | 101706 |
| 55190 | LIGHTING POLE LP-2 TYPE F | EA | 101706 |
| 55192 | LIGHTING POLE LP-2 TYPE H | EA | 101706 |
| 60452 | REINF. STEEL BRIDGE APPR. SLAB | LB | 101704 |
| 61700 | REINF. STEEL | LB | 101704 |
| 61704 | CORROSION RESISTANT REINF. STEEL | LB | 101704 |
| 61705 | EPOXY COATED REINF. STEEL | LB | 101704 |
| 61750 | STRUCT.STEEL HIGH STRG.PLT.GIRDERS | LB | avg. 1017 & 101 |
| 61811 | STR.STEEL PLATE GIRDER ASTM A709 GRADE50 | LB | avg. 1017 & 101 |
| 61812 | STR.STEEL PLATE GIRDER ASTM A709 GRADE50 | LB | avg. 1017 & 101 |
| 61813 | STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS50W | LB | avg. 1017 & 101 |

| | | | |
|-------|--|----|-----------------|
| 61814 | STR.STEEL PLATE GIRDER ASTM A709 GRADEHPS70W | LB | avg. 1017 & 101 |
| 61820 | STR.STEEL ROLLED BEAM ASTM A709 GRADE 36 | LB | avg. 1017 & 101 |
| 61821 | STR.STEEL ROLLED BEAM ASTM A709 GRADE50 | LB | avg. 1017 & 101 |
| 61822 | STR.STEEL ROLLED BEAM ASTM A709 GRADE50W | LB | avg. 1017 & 101 |
| 61990 | STEEL GRID FLOOR | SF | avg. 1017 & 101 |
| 64110 | STEEL PILES 10" | LF | avg. 1017 & 101 |
| 64112 | STEEL PILES 12" | LF | avg. 1017 & 101 |
| 64114 | STEEL PILES 14" | LF | avg. 1017 & 101 |
| 64768 | DRIVING TEST FOR 12" STEEL PILE | LF | avg. 1017 & 101 |
| 64778 | DRIVING TEST FOR 14" STEEL PILE | LF | avg. 1017 & 101 |
| 65200 | REINF. STEEL | LB | 101704 |
| 65204 | CORROSION RESISTANT REINF. STEEL | LB | 101704 |
| 65205 | EPOXY COATED REINF. STEEL | LB | 101704 |
| 67086 | PED. FENCE 6' | LF | avg. 1017 & 101 |
| 67088 | PED. FENCE 8' | LF | avg. 1017 & 101 |
| 67089 | PED. FENCE 10' | LF | avg. 1017 & 101 |
| 68100 | REINF. STEEL | LB | 101704 |
| 68104 | CORROSION RESISTANT REINF. STEEL | LB | 101704 |
| 68105 | EPOXY COATED REINF. STEEL | LB | 101704 |
| 68107 | STR.STEEL PLATE GIRDER ASTM A709 GRADE50 | LB | avg. 1017 & 101 |
| 68108 | STR. STEEL PLATE GIRDER ASTM A709 GR50W | LB | avg. 1017 & 101 |
| 68109 | STR. STEEL PLATE GIRDER ASTM A709 GR.HPS50W | LB | avg. 1017 & 101 |
| 68110 | STR. STEEL PLATE GIRDER ASTM A709 GR.HPS70W | LB | avg. 1017 & 101 |
| 68112 | STR.STEEL ROLLED BEAM ASTM A709 GR.36 | LB | avg. 1017 & 101 |
| 68113 | STR.STEEL ROLLED BEAM ASTM A709 GR.50 | LB | avg. 1017 & 101 |
| 68114 | STR.STEEL ROLLED BEAM ASTM A709 GR. 50W | LB | avg. 1017 & 101 |
| 68115 | STRUCT. STEEL | LB | avg. 1017 & 101 |
| 68270 | REINF. STEEL BRIDGE APPR. SLAB | LB | 101704 |
| 69060 | SHEET PILES, STEEL | SF | avg. 1017 & 101 |
| 69100 | REINF. STEEL | LB | 101704 |
| 69104 | CORROSION RESISTANT REINF. STEEL | LB | 101704 |
| 69105 | EPOXY COATED REINF. STEEL | LB | 101704 |
| 69110 | STEEL PILES 10" | LF | avg. 1017 & 101 |
| 69112 | STEEL PILE 12" | LF | avg. 1017 & 101 |
| 69113 | DRIVING TEST FOR 12" STEEL PILE | LF | avg. 1017 & 101 |

I elect to use this provision

I elect not to use this provision

Date: 4/4/13

Signature: 

Design-Builder: Shirley Contracting Company, LLC

Vendor No.: S018

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSAL GUARANTY**

KNOW ALL MEN BY THESE PRESENTS, THAT WE SHIRLEY CONTRACTING COMPANY, LLC As principal, and TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA Surety, are held and firmly bound unto the Commonwealth of Virginia as obligee, in the amount of FIVE PERCENT OF THE DOLLAR VALUE OF THE BID, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally and firmly by these presents.

SIGNED, sealed and dated this 4TH Day of APRIL, 20 13

WHEREAS, the above said principal is herewith submitting its proposal for:

PROJECT NUMBER: Contract ID Number: C00077322DB52 - A DESIGN-BUILD PROJECT
ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN
FROM: 0.2 MILE EAST OF PICKWICK ROAD TO: UNION MILL ROAD
FAIRFAX COUNTY, VIRGINIA

NOW, THEREFORE, the condition of the above obligee is such, that if the aforesaid principal shall be awarded the contract upon said proposal and shall within the time specified in the Specifications after the notice of such award enter into a contract and give bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise to remain in full force and effect and the principal and surety will pay unto the obligee the difference in money between the amount of the bid of the said principal and the amount for which the obligee may legally contract with another party to perform the said work if the latter amount be in excess of the former; but in no event shall the liability exceed the penal sum hereof.

SHIRLEY CONTRACTING COMPANY, LLC

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

(Principal*)
By: 
(Officer, Partner or Owner) (Seal)

(Surety Company)
By: 
(Attorney-in-Fact**) (Seal)

Michael E. Post Pres/CEO/mge.
(Principal*)

KAREN C. BOWLING, ATTORNEY-IN-FACT
ONE TOWER SQUARE, HARTFORD, CT 06183
(Address)

By: _____
(Officer, Partner or Owner) (Seal)

By: _____
(Surety Company)

(Principal*)

(Attorney-in-Fact**) (Seal)

By: _____
(Officer, Partner or Owner) (Seal)

By: _____
(Address)

*Note: If the principal is a *joint venture*, each party thereof must be named and execution made by same hereon. If there is more than one surety to the bid bond, each surety must be named and execution shall be made by same hereon.

Electronic Bid Only: In lieu of completing the above section of the Contract Performance Bond, the Principal shall file an Electronic Bid Bond when bidding electronically. By signing below the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the Commonwealth of Virginia under the same conditions of the bid bond as shown above.

Electronic Bid Bond ID# _____ Company/Bidder Name _____ Signature and Title _____

**Attach copy of Power of Attorney



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 219657

Certificate No. 005239448

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Diana L. Parker, and Karen C. Bowling

of the City of Columbia, State of Maryland, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 16th day of October, 2012.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 16th day of October, 2012, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 4th day of April, 2013

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER


Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

PROJECT: 0029-029-128, PE-101, RW-201, C-501, B-608

FHWA: BR-5401(896)

This form must be completed, signed and returned with bid; and failure to do so may result in the rejection of your bid. **THE CONTRACTOR SHALL AFFIRM THE FOLLOWING STATEMENT EITHER BY SIGNING THE AFFIDAVIT AND HAVING IT NOTARIZED OR BY SIGNING THE UNSWORN DECLARATION UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE UNITED STATES. A SEPARATE FORM MUST BE SUBMITTED BY EACH PRINCIPAL OF A JOINT VENTURE BID.**

STATEMENT. In preparation and submission of this bid, I, the firm, corporation or officers, agents or employees thereof did not, either directly or indirectly, enter into any combination or arrangement with any persons, firm or corporation or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Article 1.1 or Chapter 12 of Title 18.2 (Virginia Governmental Frauds Act), Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

AFFIDAVIT

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Fairfax, VA, this 4th day of April, 20 13
County (City), STATE
Shirley Contracting Company, LLC
(Name of Firm)
STATE of Virginia COUNTY (CITY) of Fairfax

By: [Signature] Pres/CEO/Manager
(Signature) Title (print)

To-wit: I Danielle Barber, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day Michael E. Post

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 4th day of April, 20 2013
[Signature] My Commission expires 4/30/14
Notary Public

**OR
UNSWORN DECLARATION**

The undersigned is duly authorized by the bidder to make the foregoing statement to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at _____, this _____ day of _____, 20 _____
County (City), STATE

By: _____
(Signature) Title (print)



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
AFFIDAVIT**

PROJECT: 0029-029-128, PE-101, RW-201, C-501, B-608

FHWA: BR-5401(896)

This form must be completed, signed, notarized and returned with bid; and failure to do so, may result in the rejection of your bid. A separate form must be submitted by each principal of a joint venture bid.

1. I, the firm, corporation or officers, agents or employees thereof have neither directly nor indirectly entered into any combination or arrangement with any person, firm or corporation or entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract, the effect of which is to prevent competition or increase the cost of construction or maintenance of roads or bridges.

During the preceding twelve months, I (we) have been a member of the following Highway Contractor's Associations, as defined in Section 33.1-336 of the Code of Virginia (1970). (If none, so state).

| NAME | Location of Principal Office |
|--|--|
| <u>VTCA</u> | <u>620 Moorefield Park Dr., Richmond, VA 23236</u> |
| <u>HCCA</u> | <u>10756B Ambassador Dr., Manassas, VA 20110</u> |
| <u>Maryland Hwy. Contractors Assn.</u> | <u>2408 Peppermill Dr., Glen Burnie, MD 20161</u> |

2. I (we) have , have not , participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114, or 11246, and that I/We have , have not , filed with the joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7(b)(1)], and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contract or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b) (1) prevents the award of contract and subcontract unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

(Continued)

ORDER NO.:
CONTRACT ID. NO.:

Form C-105
page 2

3. The bidder 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 judgement rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation 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 above; and
 - (d) Where the bidders is unable to certify to any of the statements in this certification, the bidder shall show an explanation below.

Explanations will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any explanation noted, indicate below to whom it applies, initiating agency, and dates of action. Providing false information may result in federal criminal prosecution or administration sanctions. The bidder shall provide immediate written notice to the Department if at any time the bidder learns that its certification was erroneous when submitted or has become erroneous by reason of change circumstances.

The undersigned is duly authorized by the bidder to make the foregoing statements to be filed with bids submitted on behalf of the bidder for contracts to be let by the Commonwealth Transportation Board.

Signed at Fairfax County, Virginia, this 4th day of April, 20 13
County (City), STATE
Shirley Contracting Company, LLC
(Name of Firm) By: [Signature] President/CEO/Manager
STATE of Virginia COUNTY (CITY) of Fairfax Title (print)

I Danielle Barber, a Notary Public in and for the State and County(City) aforesaid, hereby certify that this day Michael E. Post

personally appeared before me and made oath that he is duly authorized to make the above statements and that such statements are true and correct.

Subscribed and sworn to before me this 4th day of April, 20 13
[Signature] My Commission expires April 30, 2014
Notary Public



ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN
SHIRLEY CONTRACTING COMPANY, LLC

Contract ID Number: C00077322DBS52
 State Project No. 0029-029, PE-101, RW-201, C-501, B608



DBE Breakdown of Form C-111

| SUBCONTRACTOR | ADDRESS | TYPE OF WORK | DBE No. | VEND No. | PERCENT of WORK by DBE | PERCENT of DBE VALUE | CONTRACT AMOUNT |
|-------------------------------------|--|----------------------------------|---------|----------|------------------------|----------------------|-----------------|
| Interlock Steelworkers, Inc. | 2703 Back Acre Circle, Mount Airy, MD 21771 | Furnish & Install Bridge Girders | #626263 | #1039 | 100.00% | 10.12% | \$ 1,156,904.00 |
| Interlock Steelworkers, Inc. | 2703 Back Acre Circle, Mount Airy, MD 21771 | Install Reinforcing Steel | #626263 | #1039 | 100.00% | 0.80% | \$ 91,016.00 |
| Quinn Consulting Services, Inc. | 4094 Majestic Lane #281, Fairfax, VA 22033 | Engineering Services | #626289 | | 100.00% | 3.06% | \$ 350,044.00 |
| Geoconcepts Engineering, Inc. | 1995 Highland Vista Drive, Suite 170 Ashburn, VA 20147 | Engineering Services | #626642 | | 100.00% | 0.52% | \$ 60,000.00 |
| Diversified Property Services of VA | 20 E. Timonium Road, Suite 111, Timonium, MD 21093 | R.O.W. Acquisition Services | #626679 | | 100.00% | 1.02% | \$ 116,740.00 |

CONTRACT TOTAL VALUE: \$11,433,000.00

TOTAL: \$ 1,774,704.00
 Value of DBE Attained 15.52%

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
CERTIFICATION OF BINDING AGREEMENT
WITH
DISADVANTAGED BUSINESS ENTERPRISE FIRMS

Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

This form is to be submitted in accordance with the Department's Special Provision for Section 107.15.

It is hereby certified by the below signed Contractors that there exists a written quote, acceptable to the parties involved preliminary to a binding subcontract agreement stating the details concerning the work to be performed and the price which will be paid for the aforementioned work. This document is not intended to, nor should it be construed to, contain the entire text of the agreement between the contracting parties. This document does not take the place of, nor may it be substituted for, an official subcontracting agreement in those situations that may require such an agreement. A copy of the fully executed *subcontract agreement* shall be submitted to the Engineer within fourteen (14) business days after contract execution.

It is further certified that the aforementioned mutually acceptable quote and fully executed subcontract agreement represent the entire agreement between the parties involved and that no conversations, verbal agreements, or other forms of non-written representations shall serve to add to, delete, or modify the terms as stated.

The prime Contractor further represents that the aforementioned mutually acceptable quote and fully executed subcontract agreement shall remain on file for a period of not less than one year following completion of the prime's contract with the Department or for such longer period as provisions of governing Federal or State law or regulations may require. For purposes of this form, the term Prime Contractor shall refer to any Contractor utilizing a DBE subcontractor, regardless of tier, in which they are claiming DBE credit toward the contract goal.

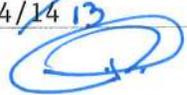
Contractors further jointly and severally represent that said binding agreement is for the performance of a "commercially useful function" as that term is employed in 49 C.F.R. Part 26.55 (c), (d).

**TO BE SIGNED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR, AND ANY LOWER TIER
SUBCONTRACTORS HAVING A CONTRACT WITH THE BELOW NAMED DBE FIRM**

Prime Contractor Shirley Contracting Company, LLC

By:  Signature

President/CEO/Manager
Title

Date: 4/4/14 

First Tier
Subcontractor if
Applicable

By: _____
Signature

_____ Title

Date: _____

Second Tier
Subcontractor if
Applicable

By: _____
Signature Title
Date: _____

Third Tier
Subcontractor if
Applicable

By: _____
Signature Title
Date: _____

DBE Contractor

INTERLOCK STEELWORKER'S, INC.
By: J.B. _____
Signature Title
Date: 4-2-13

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
CERTIFICATION OF BINDING AGREEMENT
WITH
DISADVANTAGED BUSINESS ENTERPRISE FIRMS

Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

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Contractors further jointly and severally represent that said binding agreement is for the performance of a "commercially useful function" as that term is employed in 49 C.F.R. Part 26.55 (c), (d).

**TO BE SIGNED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR, AND ANY LOWER TIER
SUBCONTRACTORS HAVING A CONTRACT WITH THE BELOW NAMED DBE FIRM**

Prime Contractor Shirley Contracting Company, LLC

By: 

Signature

President/CEO/Manager

Title

Date: 4/4/13

First Tier
Subcontractor if
Applicable

By: _____

Signature

Title

Date: _____

Second Tier
Subcontractor If
Applicable

By: _____
Signature Title
Date: _____

Third Tier
Subcontractor If
Applicable

By: _____
Signature Title
Date: _____

DBE Contractor

INTERLOCK STEELWORKERS INC.
By: KPLM Signature Title
Date: 4-2-13

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
CERTIFICATION OF BINDING AGREEMENT
WITH
DISADVANTAGED BUSINESS ENTERPRISE FIRMS**

Project No.:

Federal Project No.:

This form is to be submitted in accordance with the Department's Special Provision for Section 107.15.

It is hereby certified by the below signed Contractors that there exists a written quote, acceptable to the parties involved preliminary to a binding subcontract agreement stating the details concerning the work to be performed and the price which will be paid for the aforementioned work. This document is not intended to, nor should it be construed to, contain the entire text of the agreement between the contracting parties. This document does not take the place of, nor may it be substituted for, an official subcontracting agreement in those situations that may require such an agreement. A copy of the fully executed *subcontract agreement* shall be submitted to the Engineer within fourteen (14) business days after contract execution.

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Contractors further jointly and severally represent that said binding agreement is for the performance of a "commercially useful function" as that term is employed in 49 C.F.R. Part 26.55 (c), (d).

**TO BE SIGNED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR, AND ANY LOWER TIER
SUBCONTRACTORS HAVING A CONTRACT WITH THE BELOW NAMED DBE FIRM**

Prime Contractor Shirley Contracting Company, LLC
By:  Signature President/CEO/Manager Title
Date: 4/4/13

First Tier Subcontractor if Applicable _____
By: _____ Signature _____ Title
Date: _____

Second Tier
Subcontractor If
Applicable

By: _____
Signature Title

Date: _____

Third Tier
Subcontractor If
Applicable

By: _____
Signature Title

Date: _____

DBE Contractor

Quinn Consulting Services, Inc. _____

By: Elizabeth Quinn _____
Signature Title
Date: April 3, 2013

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
CERTIFICATION OF BINDING AGREEMENT
WITH
DISADVANTAGED BUSINESS ENTERPRISE FIRMS**

Project No.: 0029-029-128 PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

This form is to be submitted in accordance with the Department's Special Provision for Section 107.15.

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Contractors further jointly and severally represent that said binding agreement is for the performance of a "commercially useful function" as that term is employed in 49 C.F.R. Part 26.55 (c), (d).

**TO BE SIGNED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR, AND ANY LOWER TIER
SUBCONTRACTORS HAVING A CONTRACT WITH THE BELOW NAMED DBE FIRM**

Prime Contractor Shirley Contracting Company, LLC
By:  Signature President/CEO/Manager Title
Date: 4/4/13

First Tier Subcontractor if Applicable _____
By: _____ Signature _____ Title _____
Date: _____

Second Tier
Subcontractor If
Applicable

By: _____
Signature Title
Date: _____

Third Tier
Subcontractor If
Applicable

By: _____
Signature Title
Date: _____

DBE Contractor

Diversified Property Services, Inc

By: Patricia Daback President
Signature Title
Date: 4/2/2013

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
CERTIFICATION OF BINDING AGREEMENT
WITH
DISADVANTAGED BUSINESS ENTERPRISE FIRMS

Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

This form is to be submitted in accordance with the Department's Special Provision for Section 107.15.

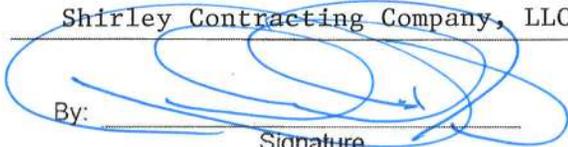
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The prime Contractor further represents that the aforementioned mutually acceptable quote and fully executed subcontract agreement shall remain on file for a period of not less than one year following completion of the prime's contract with the Department or for such longer period as provisions of governing Federal or State law or regulations may require. For purposes of this form, the term Prime Contractor shall refer to any Contractor utilizing a DBE subcontractor, regardless of tier, in which they are claiming DBE credit toward the contract goal.

Contractors further jointly and severally represent that said binding agreement is for the performance of a "commercially useful function" as that term is employed in 49 C.F.R. Part 26.55 (c), (d).

**TO BE SIGNED BY THE SUBCONTRACTOR TO THE PRIME CONTRACTOR, AND ANY LOWER TIER
SUBCONTRACTORS HAVING A CONTRACT WITH THE BELOW NAMED DBE FIRM**

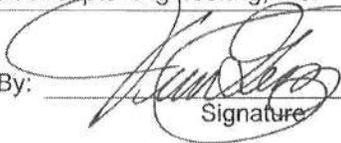
Prime Contractor Shirley Contracting Company, LLC
By:  Signature President/CEO/Manager Title
Date: 4/4/13

First Tier
Subcontractor if
Applicable

Dewberry Consultants
By:  Signature Executive Vice President Title
Date: 4/3/13

Second Tier
Subcontractor if
Applicable

GeoConcepts Engineering, Inc.

By: 
Signature

President

Title

Date: 04/02/13

Third Tier
Subcontractor if
Applicable

By: _____
Signature

_____ Title

Date: _____

DBE Contractor

By: _____
Signature

_____ Title

Date: _____

RESPONSE TO REQUEST FOR PROPOSALS

ROUTE 29 BRIDGE OVER LITTLE ROCKY RUN

A DESIGN-BUILD PROJECT
FAIRFAX COUNTY, VIRGINIA

POST NOTICE OF INTENT TO AWARD SUBMITTALS



State Project No.: 0029-029-128, PE-101, RW-201, C-501, B-608

Federal Project No.: BR-5401(896)

Contract ID Number: C00077322DB52

Submitted To:



Submitted By:



In Association With:

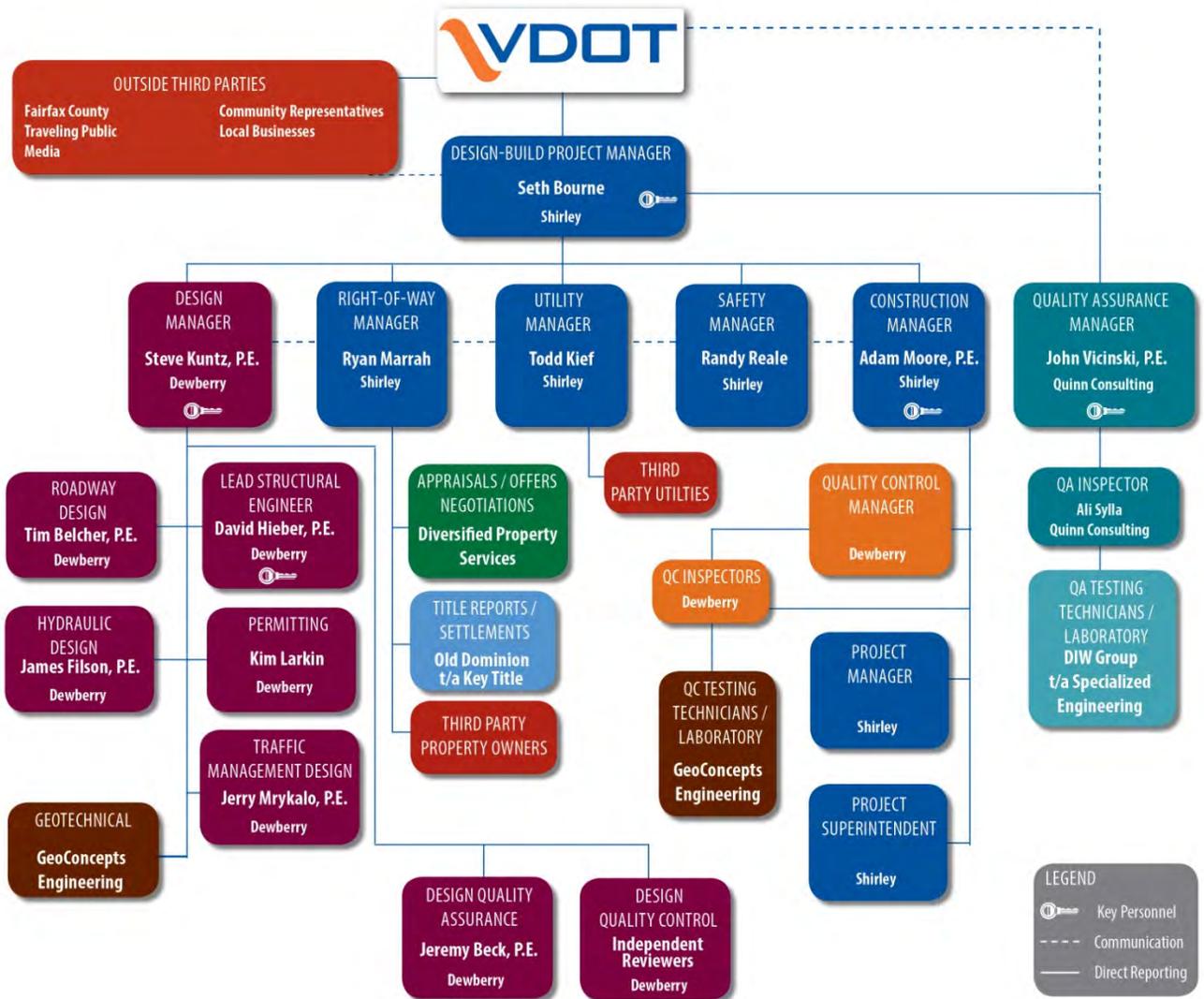


4.4 POST NOTICE OF INTENT TO AWARD SUBMITTAL

4.4.1 Organizational Chart

Based on our previous design-build experiences, our Team has developed detailed and proven procedures and methods for integrating the various disciplines, as well as communicating and working effectively together. At a minimum, we will hold weekly Design Coordination Meetings, weekly Progress Meetings with the Department, and weekly Construction Progress Meetings on the jobsite. We value our excellent relationship with the public, local residents and businesses and we have seen firsthand how effectively communicating with stakeholders can lead to positive results. Decision-making and issue resolution will reside at the lowest, most direct level on the Shirley Team in order to facilitate the quickest response with minimal disruption to the Project. Should issue resolution not be possible at that particular level, the issue then flows up the chain of command to the next level, and so on, until the issue is resolved. From the beginning stages of project development, this chain of command is established and clearly communicated to all Team members.

The Shirley Team’s Organizational Chart for the Project is described narratively and graphically on the following pages. The “chain of command” is depicted on the chart by solid lines, which represent the primary reporting relationships. Dashed lines represent communication relationships between the major project disciplines and participants.



Major Roles, Responsibility and Reporting of Our Team Members (* Denotes Key Personnel):

VDOT: As the Owner, VDOT will maintain oversight responsibility for all aspects of the Project to ensure compliance with the Contract Documents and to take final acceptance when complete. We anticipate that VDOT will also want to be the primary liaison between certain outside third-party stakeholders and the Project Team.

***Design-Build Project Manager (Seth Bourne):** The Design-Build Project Manager (D/B PM) will have full and complete authority over all aspects of the Shirley Team's responsibilities. In addition to being the primary point of contact with VDOT after award of the Project, the D/B PM has ultimate responsibility for contract management and to coordinate and integrate the various project disciplines successfully, including design, construction, QA/QC, right-of-way, utilities, permitting, and safety. The D/B PM will also support the teams' and VDOT's efforts to communicate with certain third-party stakeholders.

***Quality Assurance Manager (John Vicinski, PE):** In this Key Personnel role the Quality Assurance Manager (QAM) reports directly to the D/B PM and is completely independent from the construction operations and QC inspections. The QAM has full responsibility for assuring that the Project is in compliance with the Contract Documents, manages all aspects of the QA program, and will direct the QA inspections by the QA inspector and independent QA testing technicians from Specialized Engineering, Inc. This position is unique in that the QAM has the autonomy to report findings directly to VDOT in addition to the D/B PM, and if the work is not in compliance with the Contract Documents, he has the authority to unilaterally halt or suspend the work and the responsibility to assure corrective action is taken before the work is accepted and certified for payment.

***Design Manager (Steve Kuntz, PE):** Reporting to the D/B PM, this Key Personnel position has overall responsibility for management of all aspects of the design process including roadway, structural, hydraulic, permitting, traffic, and geotechnical. Of vital importance is the Design Manager's role in integrating the various design disciplines with the construction, right-of-way, utility, and safety elements. In addition, the Design Manager will establish and oversee the Design QA/QC program. The Design Manager will ensure that the design QA and QC functions shall be exclusively designated as such and shall not be assigned to perform conflicting duties or production work, as outlined in the updated version (January 2012) of the *Minimum Requirements for Quality Assurance and Quality Control on Design-Build and P3 Projects*.

***Construction Manager (Adam Moore):** Reporting to the D/B PM, this Key Personnel position is responsible for managing all aspects of project construction and the Quality Control process. Prior to construction commencing, the Construction Manager will facilitate all constructability reviews for each aspect of the design, work closely with the Utility Manager to plan for necessary relocations, and coordinate with the ROW Manager to prioritize and schedule the acquisition process. During construction, he will be on site at all times, and will maintain the project schedule, coordinate with the QC Manager, Project Manager, and Superintendent to ensure all construction materials and activities are in accordance with the Contract Documents. The Construction Manager will communicate with the Design Manager to arrange for design engineer's review of construction activities through the witness and hold points.

***Lead Structural Engineer (Dave Hieber, PE):** Reporting directly to the Design Manager, this Key Personnel position is responsible for the structural design of the bridges and retaining walls on the Project. Additional responsibilities include reviewing structural designs, verification of modifications to designs, reviewing structural RFI's and shop drawings, and the preparation of load ratings for VDOT project acceptance.

Design QA (Jeremy Beck, PE): This position will report directly to the Design Manager to lead the Design QA efforts and will not be involved in the design production or QC efforts for the Project.

Following completion of the Design QC reviews and prior to submission to the Department, this individual will complete a QA review of each design document.

Design QC: For each design discipline the Design Manager will assign a qualified independent QC reviewer, who is not involved in the production of the design document, to complete a detailed QC review to ensure technical accuracy and conformance with the contract requirements.

Right-of-Way Manager (Ryan Marrah): Reporting to the D/B PM, the Right-of-Way (ROW) Manager will manage the process to acquire all right-of-way and easements needed to construct the Project. Reporting to the ROW Manager will be the VDOT Prequalified sub-consultants performing appraisals, appraisal reviews, title reports, offers, negotiations, and settlements. The ROW Manager will facilitate communication with the affected landowners and will at all times maintain the status of the process for VDOT. The ROW Manager will coordinate closely with the Design, Utility, and Construction disciplines.

Utility Manager (Todd Kief): The Utility Manager plays a vital role in achieving completion of the Project on time and within budget. Reporting to the D/B PM, the Utility Manager will actively coordinate existing and proposed utilities with the Design, Right-of-Way, Safety, and Construction Management disciplines. He will serve as the liaison with each utility company to ensure that utilities are integrated into the Project. Working with the Design Team, the Utility Manager's first priority is to avoid relocations. If not possible, the focus will be to minimize these relocations to the greatest extent practical. When relocations are unavoidable, he will ensure that they are coordinated with construction and completed within schedule.

Safety Manager (Randy Reale): Reporting to the D/B PM, the Safety Manager will review the plans and all field activities to provide a safe environment for VDOT, the construction workers, and the traveling public. The Safety Manager will train and inform those engaged on the Project of specific safety hazards and will enforce all aspects of applicable industry safety standards, Shirley's Corporate Safety Policy and the Project's Health, Safety and Welfare Plan. Working closely with the Construction Manager, the Safety Manager will monitor the field activities and crews and has full and complete authority to halt or suspend any activity not in compliance with the applicable safety standards.

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

| | |
|--|---|
| Brief Resume of Key Personnel anticipated for the Project. | |
| a. Name & Title: | Seth. C Bourne, Assistant Project Manager |
| b. Project Assignment: | Design-Build Project Manager |
| c. Name of Firm with which you are now associated: | Shirley Contracting Company, LLC |
| d. Years experience: With this Firm 3 Years With Other Firms 7 Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen (15) years. | <p>Shirley Contracting Company, LLC</p> <p>Design Build Project Manager (December 2012 - Present)</p> <ul style="list-style-type: none"> • Sycolin Road Overpass of the Route 7/15 Bypass, December 2012 to October 2014 – Responsible for the total oversight of the Shirley/Dewberry Team , the QA/QC Process, the Right-of- Way Acquisition Process, Utility Relocation, communication and coordination with VDOT and the Town of Leesburg, and the transition from the design and plan approval stage into full construction for the \$12.2 million design-build project. <p>Assistant Project Manager (November 2009 - Present)</p> <ul style="list-style-type: none"> • Route 27 and 244 Interchange, July 2011 to August 2015 – Responsible for assisting in the management of the Shirley/Dewberry Team and the management of the acquisition of Right of Way for the \$31.5 million design-build project • Pacific Boulevard Extension, June 2011 to August 2013 – Responsible for assisting in the management of the Shirley/Dewberry Team and the management of the acquisition of Right of Way for the \$5 million design-build project. • Route 50 Widening (Poland Road to Lee Road), March 2011 to May 2015 – Responsible for assisting in the management of the Shirley/Dewberry Team and the management of the acquisition of Right of Way for the \$68 million design-build project. • Prince William County PPTA (University Boulevard and Hornbaker Road), February 2011 to December 2013 - Responsible for assisting in the management of the design and management of the acquisition of Right of Way for the \$28 million PPTA project. • Spotsylvania County PPTA (7 Intersections), November 2009 to December 2014 – Design Build Project Manager/Right of Way Manager responsible for managing the Shirley/Dewberry/Diversified Property Services Team for the \$18 million County project. • I-95 4th Lane Widening, November 2009 to July 2010 – Assistant Project Manager responsible for assisting in the management of the Shirley Construction Team for the \$92 million VDOT Mega Project. <p>Rappahannock Construction Company, Inc.</p> <p>Senior Project Manager (January 2005 - November 2009)</p> <ul style="list-style-type: none"> • Walmart Supercenter, September 2008 to November 2009, Senior Project/Field Operations Manager responsible for construction of the \$5.79 million site work and Route 17 roadway improvements for the new Walmart in Stafford County. • East Rockingham High School & Riverbend Elementary School, February 2008 to November 2009, Senior Project/Field Operations Manager responsible for construction of the \$9 million site work and roadway improvements for the High School/Elementary School Campus in Rockingham County, including improvements to existing Rockingham Pike and Route 33. • Rocky Run Gravity Sewer, October 2008 to August 2009, Senior Project/Field Operations Manager responsible for construction of the \$3 million, 10,000 linear foot sanitary sewer trunk system including six stream crossings. • Hospital Road (City of Petersburg Transportation), September 2007 to July 2008, Senior Project/Field Operations Manager responsible for the \$8.8 million construction of an 8,300 linear foot four lane road on a new alignment including signals, sanitary sewer and water mains. • Rockingham Memorial Hospital Utilities, May 2007 to February 2008, Senior Project/Field Operations Manager responsible for construction of \$3.1 million in utility improvements including sanitary sewer, water main, and storm sewer to serve the new 300 Bed Hospital in Rockingham County. • Spotsylvania County Fleet Maintenance Facility, May 2007 to February 2008, Senior Project/Field Operations Manager responsible for \$3.3 million construction of the new 25 Acre Fleet Management Facility for Spotsylvania County. • Potomac Landing Section III, February 2007 to September 2007, Sr. Project/Field Operations Manager responsible for the \$1.2 M construction of the new ditch section subdivision in King George County including installation of deep utilities. |

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

Segmental Wall Specialists

Senior Project Manager/Superintendent (April 2003 - December 2004)

- **Various Projects** - Senior Project Manager/Superintendent responsible for estimating, contracting, construction, completion, and close out of multiple installations of Segmental Walls from Northern Pennsylvania to North Carolina.

S.W. Rogers

Estimator (June 2002 - April 2003)

- **Various Projects** - Estimator responsible for take offs and estimates for multiple residential and transportation projects in Northern Virginia.

e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization:

Randolph Macon College, Ashland, VA - BA, 2002 Business and Economics

f. Active Registration: Year First Registered/ Discipline/VA Registration #:

None

g. Document the extent and depth of your experience and qualifications relevant to the Project.

1. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
2. *Note whether experience is with current firm or with other firm.*
3. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)

1. Pacific Boulevard Extension Design-Build Project

Assistant Project Manager (June 2011 – August 2013)

Mr. Bourne is responsible for assisting in the management and direction of the discipline managers for the overall design-build process including design, permitting, utility relocations, and construction for this \$5 million design-build project which extends from Relocation Drive to Dresden Street in Loudoun County, Virginia. Mr. Bourne was also responsible for the management and administration of the acquisition of all Right of Way for nine parcels impacted by this project. Mr. Bourne is one of the main points of contact for the Shirley/Dewberry Team and is responsible for communication and coordination with the VDOT, permitting agencies, impacted property owners, and other stakeholders on the project. He developed the CPM schedule and continues to monitor progress on the project. In cooperation with VDOT, Mr. Bourne coordinated the dedication Right of Way and easements from five parcels at no cost to VDOT.

2. Route 50 Widening Project

Assistant Project Manager (March 2011 – May 2015)

Mr. Bourne was the assistant project manager responsible for portions of leadership for the Shirley/Dewberry Team through all phases of the design-build process including design, permitting, ROW acquisition, utility relocations and construction. He continues to coordinate with stakeholders including VDOT, local land owners, developers, and Fairfax and Loudoun Counties. Mr. Bourne is responsible for the management and administration of the acquisition of ROW from the 64 impacted properties in both Fairfax and Loudoun Counties. He works directly with VDOT Special Projects Leader, VDOT Central Office, Diversified Property Services, the respective property owners, and the local zoning and planning offices to expeditiously acquire the necessary land rights. Mr. Bourne coordinates with all parties to address property owner concerns and minimize property impacts. He along with Mr. Todd Kief as Utility Coordinator and Mr. Rick Meyer as Construction Manager, worked together to schedule and prioritize the acquisition of the ROW in order expedite the relocation of utilities and minimize the impact of ROW and utility relocations on the construction schedule.

3. Prince William County PPTA

Assistant Project Manager (February 2011 – December 2013)

Mr. Bourne was the Assistant Project Manager responsible for portions of leadership for the Shirley/Dewberry Team through all phases of the Design-Build process including design, permitting, ROW acquisition, utility relocations and construction. Mr. Bourne coordinates with project stakeholders including VDOT, local land owners, developers, and Prince William County. Mr. Bourne was responsible for the management and administration of the acquisition of all necessary Right of Way from the 40 impacted properties along Hornbaker Road and University Boulevard. Mr. Bourne worked directly with Mr. Scott Hatten of Prince William County Transportation/Right of Way, Diversified Property Services, the respective property owners, and the local zoning and planning offices to acquire the necessary land rights. Mr. Bourne coordinates with all parties to address property owner concerns and minimize property impacts. Mr. Bourne's efforts and coordination with Prince William County, and Williams-Transco Gas Company worked to devise an installation plan for work that was to take place over the Williams-Transco Gas Line Easement such that the proposed bridge to span the Gas Easement was eliminated saving the County approximately \$500,000.00.

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

| | |
|--|---|
| Brief Resume of Key Personnel anticipated for the Project. | |
| a. Name & Title: | Adam Moore, P.E. , Assistant Project Manager |
| b. Project Assignment: | Construction Manager |
| c. Name of Firm with which you are now associated: | Shirley Contracting Company, LLC |
| d. Years experience: With this Firm 4 Years With Other Firms 0 Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen (15) years. | <p>Shirley Contracting Company, LLC March 2009 - Present</p> <ul style="list-style-type: none"> • July 2011 to November 2012 – Client: Dulles World Green LLC. Assistant Project Manager for construction of the Innovation Avenue Interchange, Phase II project in Dulles, VA, as part of the Shirley/Dewberry Design Build Team. • August 2011 to June 2012 – Client: Orbital Sciences Corporation. Assistant Project Manager for construction of the Warp Drive project in Sterling, VA, as part of the Shirley/Dewberry Design Build Team. • July 2011 to June 2012 – Client: VDOT. Assistant Project Manager for construction of the Atlantic Boulevard Extension project in Sterling, VA, as part of the Shirley/Dewberry Design Build Team. • May 2011 to October 2011 – Client: Willowsford, LLC. Assistant Project Manager for construction of the Grange Truss Bridge project in Arcola, VA. • November 2010 to June 2011 – Client: VDOT. Project Engineer for construction of the Fairfax County Parkway and Fair Lakes Parkway Interchange project in Centreville, VA. • March 2009 to November 2010 – Client: VDOT. Project Engineer for construction of the I-66 and Route 29 Interchange project in Gainesville, VA. |
| e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: | University of Virginia, Charlottesville, VA / 2008 / Civil Engineering |
| f. Active Registration: Year First Registered/ Discipline/VA Registration #: | <ul style="list-style-type: none"> • 2012/Virginia Professional Engineer License (PE)/0402050075 • 2012/DCR Erosion and Sediment Control Responsible Land Disturber (RLD)/38479 • 2011/VDOT Erosion and Sediment Control Contractor Certification (ESCCC)/5925C |
| g. Document the extent and depth of your experience and qualifications relevant to the Project. | <ol style="list-style-type: none"> 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> <p>(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)</p> <p>1. Innovation Avenue Interchange, Phase II Project Shirley Contracting Company, LLC (July 2011 – November 2012) As the Construction Manager for the design-build team, Mr. Moore is responsible for coordination of utility relocation work and oversight of construction in accordance with the approved contract plans. Mr. Moore conducts regular progress and jobsite safety meetings, prepares/obtains and reviews required materials. Mr. Moore is responsible for the daily scheduling of work activities including Shirley’s personnel and subcontractors, material deliveries, rental equipment and trucks. He is also responsible for coordinating with the Project’s Quality Control staff to ensure that all construction materials and activities are inspected and tested in accordance with the approved QA/QC plan. The overall scope of the project includes two (2) limited access interchange ramps, approximately one (1) mile of widening on Southbound Route 28, two (2) stormwater management ponds, and one (1) bridge.</p> <p>2. Atlantic Boulevard Extension Shirley Contracting Company, LLC (July 2011 - June 2012) As the Construction Manager for the design-build team, Mr. Moore is responsible for coordination of utility relocation work and oversight of construction in accordance with the approved contract plans. Mr. Moore conducts regular progress and jobsite safety meetings, prepares/obtains and reviews required materials. Mr. Moore is responsible for the daily scheduling of work activities including Shirley’s personnel and subcontractors, material deliveries, rental equipment and</p> |

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

trucks. He is also responsible for coordinating with the Project's Quality Control staff to ensure that all construction materials and activities meet the requirements of the QA/QC Plan and the Contract. The overall scope of the project included approximately one half mile of roadway, two (2) stormwater management ponds, and one (1) bridge.

3. Warp Drive Ramp

Shirley Contracting Company, LLC (August 2011 - June 2012)

As the Construction Manager for the design-build team, Mr. Moore is responsible for coordination of utility relocation work and oversight of construction in accordance with the approved contract plans. Mr. Moore conducts regular progress and jobsite safety meetings, prepares/obtains and reviews required materials. Mr. Moore is responsible for the daily scheduling of work activities including Shirley's personnel and subcontractors, material deliveries, rental equipment and trucks. He is also responsible for coordinating with the Project's Quality Control staff to ensure that all construction materials and activities are inspected as required. The overall scope of the project included one (1) at-grade slip ramp and one (1) roundabout.

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

| |
|---|
| Brief Resume of Key Personnel anticipated for the Project. |
| a. Name & Title: Steven Kuntz, PE, DBIA, Senior Associate |
| b. Project Assignment: Design Manager, Design QA/QC |
| c. Name of Firm with which you are now associated: Dewberry Consultants LLC |
| d. Years experience: With this Firm 14 Years With Other Firms 0 Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen(15) years. (NOTE: If you have less than 15 years of experience, please list all of your experience for those years you have worked.): Dewberry Consultants LLC - June 1999 to Present <ul style="list-style-type: none"> • November 2012 to Current-Client VDOT. Design Manager for the Sycolin Road Overpass of the Route 7/15 Bypass in Leesburg Design-Build project for the Shirley/Dewberry Team. • July 2011 to November 2012 (design), Construction Support thru August 2015 – Client: VDOT. Roadway Design lead for the Route 27/244 Interchange Modification project in Arlington County for the Shirley Design-Build team. • July 2011 to November 2011 (design), Construction Support thru August 2013, Client: VDOT. Design Manager for the Pacific Boulevard Extension project for the Shirley Design-Build Team • February 2011 to January 2012 (design), Construction Support thru May 2015 – Client: VDOT. Roadway Design Lead for the Route 50 Widening project in Fairfax and Loudoun Counties for the Shirley Design-Build team. • February 2010 to October 2010 – Client: VDOT. Design Manager for the Waxpool Road/Loudoun County Parkway Intersection Improvements for the Shirley Design-Build team. • October 2009 to December 2012 – Client: FHWA. Design Manager for the Fairfax County Parkway Phase III Improvements Project for the Shirley Design-Build team. • July 2008 to July 2012 – Client: VDOT. Highway Design Engineer for the Pacific Boulevard Design-Build Project for the Shirley Design-Build team. • February 2008 to November 2011 – Client: MDSHA. “Area E” Roadway Design Manager for Intercounty Connector (ICC) Contract C for the Shirley Design-Build team. • February 2008 to July 2010 – Client: Loudoun County. Project Manager for the design of the Route 7/659 Interchange. • July 2007 to September 2009 – Client: VDOT. Highway Design Engineer for the Battlefield Parkway Design-Build Project as part of the Shirley Design-Build team. • March 2005 to September 2007 – Client: TRIP II. Assistant Design Project Manager for the Dulles Greenway Capital Improvements Program for the Shirley Design-Build team. • September 2002 to December 2012 – Client: VDOT. Assistant Design Manager for the Route 28 Corridor Improvements Project as part of the Shirley Design-Build team • June 1999 to January 2011 (design), Construction Support thru August 2015 – Client: VDOT. Project Manager for the design of the Route 29/Linton Hall Road Interchange. • June 1999 to April 2006 – Client: VDOT. Assistant Project Manager for the design of the I-66 Mainline Widening Project from Route 234 Business to Route 29 (Gainesville) |
| e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: Virginia Polytechnic Institute and State University, Blacksburg, VA / BS / 1999 / Civil Engineering |
| f. Active Registration: Year First Registered/ Discipline/VA Registration #: Professional Engineer / 2004 / Virginia #0402 039440 Professional Engineer / 2008 / Maryland #36172 Design Build Institute of America (DBIA) / 2010 |
| g. Document the extent and depth of your experience and qualifications relevant to the Project. <ol style="list-style-type: none"> 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> <p>(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)</p> <p>1. Fairfax County Parkway Phase III Improvements - Fairfax County, VA Dewberry, Design Manager (October 2009 – December 2012) Mr. Kuntz is currently serving as the Design Manager for this \$27 million design-build project with Shirley Contracting under contract to the Federal Highway Administration, Eastern Federal Lands Highway Division (EFLHD). He is responsible for overseeing all aspects of design and for coordination of multiple subconsultants, as well as implementing and monitoring the design QA/QC process. Design elements included modifications to the existing Fairfax County Parkway/Franconia-Springfield Parkway/Rolling Road Interchange, widening of approximately 0.8 miles of Rolling Road (to become Fairfax County Parkway),</p> |

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

relocation of Rolling Road and Hooes Road, a new bridge to carry Rolling Road over the Fairfax County Parkway, and a new park and ride lot at the Barta Road interchange at the southern end of the Phase III improvements. Mr. Kuntz attended weekly meetings with the contractor to discuss design issues and progress, as well as to coordinate with construction staff, and continues to attend coordination meetings as the project nears completion.

2. Route 28 Corridor Improvements Project - Fairfax and Loudoun Counties, VA

Dewberry, Assistant Design Manager (September 2002 – December 2012)

Mr. Kuntz helped to oversee the design of ten (10) interchanges along Route 28, resulting in creation of a limited access highway between Westfields Blvd. in Fairfax County and Route 7 in Loudoun County as part of this \$350 million PPTA project. Mr. Kuntz was responsible for completion of conceptual interchange configurations for four (4) of the interchanges (Willard Road, Frying Pan Road, Innovation Avenue, and Nokes Boulevard) and for final design of six (6) of the ten interchanges, including the Innovation Avenue, Sterling Boulevard, and Nokes Boulevard Interchanges in Loudoun County and the Westfields Boulevard, Willard Road, and Barnsfield Road Interchanges in Fairfax County. As part of the final design efforts, Mr. Kuntz coordinated the design of each of the interchange bridges, stormwater management facilities, and utility relocation designs, and oversaw the design of all aspects of horizontal and vertical geometric design, drainage design, lighting design, signing and marking design and maintenance of traffic plans. He also helped to prepare cost estimates for additional work added to the PPTA contract including Atlantic Boulevard north of Church Road, Pacific Boulevard north of Sterling Boulevard, and Centreville Road north of Route 50.

3. Pacific Boulevard Design-Build Project - Loudoun County, VA

Dewberry, Highway Design Engineer (July 2008 – July 2012)

Mr. Kuntz was the Highway Design Engineer for the Shirley/Dewberry Team for this \$19 million design-build project for VDOT which extended Pacific Boulevard from Auto World Circle to Severn Way in Loudoun County. His responsibilities included overseeing all aspects of roadway design and plan completion, and for coordinating design efforts with the bridge, stormwater management, utility relocation and landscaping design disciplines. During design, Mr. Kuntz attended weekly coordination meetings with the Contractor and VDOT, and was responsible for all plan submissions to VDOT, the Northern Virginia Regional Park Authority, and the utility companies. Mr. Kuntz also attended coordination meetings with the impacted landowners, and led the design efforts to revise the design to include turn lane improvements which resulted in the dedication of right-of-way to VDOT for a majority of the project.

4. Battlefield Parkway Design-Build Project - Loudoun County, VA

Dewberry, Highway Design Engineer (July 2007 - September 2009)

As the Highway Design Engineer for the Shirley/Dewberry Team for this \$26.5 million design-build project for VDOT, Mr. Kuntz was responsible for overseeing the roadway design effort to extend Battlefield Parkway from Kincaid Boulevard to Route 7. His responsibilities included overseeing all aspects of roadway design and plan completion, and for coordinating design efforts with the bridge, stormwater management, lighting and landscaping design disciplines. Mr. Kuntz attended weekly coordination meetings with the Contractor and VDOT, and was responsible for all plan submissions to VDOT, the Town of Leesburg, and the Northern Virginia Regional Park Authority as the design included a bridge over the W&OD Trail).

5. Route 29/Linton Hall Interchange and Railroad Grade Separation - Prince William County, VA

Dewberry, Project Manager for Design (June 1999 – January 2011, Under Construction until August 2015)

Beginning as a Project Engineer and continuing through being named the Project Manager in late 2008, Mr. Kuntz has worked on the design of the phased improvements to construct a single point urban interchange (SPUI) and railroad grade separation at the existing Route 29 intersection with Linton Hall Road. As Project Engineer, Mr. Kuntz was responsible for all elements of roadway design including horizontal and vertical geometry, drainage design, and maintenance of traffic and detour designs in preparation for phased right-of-way plan approvals in 2007 and 2008. As Project Manager, Mr. Kuntz oversaw the completion of the roadway plans and coordinated the design with the four (4) bridge plan packages in preparation for a December 2010 advertisement. He has served as the single point of contact for VDOT for the completion of parcel demolition plans (phase 1 completed in 2009), advance detour construction plans (advertised in October 2009), and a second parcel demolition contract which has been approved for advertisement in March 2010. He also attends monthly coordination meetings with VDOT project staff, coordinated with the in-plan utility relocations engineer (completed under separate contract to VDOT Central Office), provides design support to the VDOT right-of-way division as they continue to acquire the remainder of the impacted parcels, and works with VDOT Central Office in coordination efforts with Norfolk Southern Railroad.

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

| | |
|---|---|
| Brief Resume of Key Personnel anticipated for the Project. | |
| a. Name & Title: | John K. Vicinski, P.E., DBIA, Quality Assurance Manager |
| b. Project Assignment: | Quality Assurance Manager |
| c. Name of Firm with which you are now associated: | Quinn Consulting Services, Incorporated |
| d. Years experience: With this Firm 4.8 Years With Other Firms 25 Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen (15) years. | <p>Quinn Consulting Services, Incorporated (June 2008 - Present)</p> <p>As Quality Assurance Manager, worked exclusively on design-build projects in lead QA and QC roles.</p> <ul style="list-style-type: none"> • March 2012 to Present – Quality Assurance Manager for the VDOT Design-Build Rt. 27/244 Interchange Reconstruction project in Arlington, Virginia. • September 2011 to Present – Quality Assurance Manager for the VDOT Design-Build Rt. 50 Widening Project West of Rt. 28 in Fairfax and Loudoun Counties in Virginia. • February 2012 to Present – Quality Assurance Manager for the VDOT Design-Build Pacific Blvd. Extension Project in Loudoun County, Virginia. • March 2012 to December 2012 – Quality Assurance Manager for the FHWA Design-Build project Fort Lee Garrison “A” Gate Roundabout in Prince George County, Virginia. • January 2011 to March 2013 - Client: Dewberry. Quality Assurance Manager for the FHWA Fairfax County Improvements (Phase III) Design-Build Project. • April 2010 to December 2010 – Quality Assurance Manager for the VDOT Waxpool Road and Loudoun County Parkway Interchange Improvements Design-Build Project. • November 2008 to March 2010 – Area Quality Control Engineer on the VDOT/FHWA PPTA Design-Build Project adding HOT Lanes to 14 miles of the Virginia side of the Capital Beltway. • June 2008 to November 2008 – Quality Assurance Manager for the VDOT Pacific Boulevard Design-Build Project. • June 2008 to November 2008 – Quality Assurance Manager for the VDOT Battlefield Parkway Design-Build Project. • June 2008 to November 2008 – Quality Assurance Manager for the VDOT Design-Build Gilberts Corner Project near the intersection of Rt..15 and Rt. 50 in Loudoun County, VA. <p>Alpha Corporation (September 1995 - June 2008)</p> <p>As vice president and director of transportation services in Virginia, managed up to 25 contracts simultaneously primarily providing CEI services on design-build, district-wide, and project specific projects for VDOT and other transportation clients.</p> <ul style="list-style-type: none"> • January 2008 to June 2008 – Quality Assurance Manager for the VDOT Battlefield Parkway Design-Build Project. • January 2008 to June 2008 – Quality Assurance Manager for the VDOT Design-Build Gilberts Corner Project • 2007- 2008 – Quality Assurance Manager on \$56 million , 5.6 mile rail and roadway D-B project in Portsmouth, Va. • 2006-2008 – Project Director providing CEI inspectors and support services on I-66 Gainesville Interchange project. • 2005-2008 – Project director on construction of \$500 million container terminal in Portsmouth, Va. • 2005-2008 and 1995-1998 – Inspector Coordinator on VDOT Northern Virginia District-wide CEI Contracts. • 1998-2008 – Inspector coordinator on three consecutive VDOT Culpeper District-wide CEI contracts • 2004-2008 – Project Director/Task Manager providing constructability review and CPM scheduling services. • 2004-2008 – Project Director in charge of providing CEI services on multiple transportation projects. • 2006-2008 – Project Director in charge of providing CEI services on Monroe Street Design-Build project. • 2005-2008 – Project Director in charge of providing CEI services on transportation projects in Prince William County. • 2004-2006 – Project Director in charge of providing CEI services on I-81 Maury River Bridge Replacement Project • 2003-2006 – Project Director in charge of providing transportation inspectors to the Town of Herndon • 2005-2008 – Project Director in charge of providing CEI services on environmental and building projects in FFX County. • 2002-2007 – Inspector coordinator providing bridge and painting inspectors in Northern VA, Culpeper, & Fredericksburg. • 2000-2003 – Inspector coordinator in charge of providing inspectors throughout the VDOT Staunton District. |
| e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: | University of Pittsburgh @ Johnstown / BS / 1982 / Civil Engineering Technology |
| f. Active Registration: Year First Registered/ Discipline/VA Registration #: | 1992 / Civil Engineer / 0402 026380 |

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

Also registered as professional engineer in the State of Maryland & Commonwealth of Pennsylvania

- g. Document the extent and depth of your experience and qualifications relevant to the Project.
1. *Note your specific responsibilities and authorities for each assignment, not those of the firm.*
 2. *Note whether experience is with current firm or with other firm.*
 3. *Provide beginning and end dates for each assignment.*

(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)

1. Route 50 Widening Design-Build Project

Quality Assurance Manager (September 2011 – June 2015)

Quality Assurance Manager for this approximately \$58 million design-build project to widen Route 50 in Fairfax and Loudoun Counties between Rte. 742 (Poland Road) to Rte. 28 (Sully Road) from a four-lane divided highway to a six-lane divided highway. Responsibilities include oversight of the QA team that works closely with the Contractor's QC team to assure that the project adheres to the project specific QA/QC Plan and the Minimum Requirements for QA and QC as set forth in the VDOT Design-Build Manual. Responsibilities of the QA team include: scheduling and chairing activity preparatory meetings; performing the required QA inspection and testing; monitoring the performance and documentation of the QC team, reviewing and approving monthly pay estimates, developing project punch lists, and addressing non-conforming items with contractor QC personnel.

2. I-495 HOT Lanes Design-Build Project

Area Quality Control Engineer (November 2008 – April 2009)

Area Quality Control Engineer on the design-build widening on 14 miles of the Capital Beltway. The \$1.5 billion project added two-lanes in each beltway direction, replaces more than 50 bridges and overpasses, upgrades 10 interchanges, and improves bike and pedestrian access. Responsible for managing teams of inspectors to provide quality control inspection and testing services in accordance with the project specific quality assurance/quality control plan and VDOT's Minimum Quality Control & Quality Assurance Requirements for Design Build & Public-Private Transportation Act Projects. Responsibilities also include interfacing with project design engineers on RFI's, field design changes (FDC's), and non-compliance reports (NCR's) and daily coordination with QA and general engineering consultant (GEC) personnel.

3. Gilberts Corner Design-Build Project

Area Quality Control Engineer (January 2008 – November 2008)

Quality Assurance Manager on construction of four new traffic circles installed near the intersection of Rt. 15 and Rt. 50 in Loudoun County, Va. Responsible for overseeing all QA and QC activities and assuring that work was performed in accordance with the project specific QA/QC plan and VDOT's Minimum Quality Control & Quality Assurance Requirements for Design Build & Public-Private Transportation Act Projects. In the initial stages of the project, helped write the QA/QC plan and assemble a team of QA inspectors and QC technicians that had the required experience and certifications to implement the plan and track all project documentation. Reviewed and signed monthly pay estimates after comparing pay requests with actual progress and compliance with minimum QA/QC technical standards.

4. Fairfax County Parkway Design-Build Project

Quality Assurance Manager (February 2010 – March 2013)

Quality Assurance Manager on this \$22 million interchange and roadway FHWA/VDOT Design-Build project. Project included the construction of a six-lane divided limited access highway; the Franconia-Springfield Parkway interchange improvements; a shared use path alongside a portion of relocated Rolling Rd.; sound barriers along relocated Rolling Rd. and Ramp D; and a new bridge over the Fairfax County Parkway. Responsibilities included overseeing QA and QC staff to make certain the project was completed in accordance with the contract documents and the VDOT Design-Build Minimum Standards. Other responsibilities included facilitating preparatory meetings before new activities began, documenting asphalt and aggregate testing within the FHWA QL Pay System, and coordinating QA laboratory testing services.

5. Route 27/244 Interchange Design-Build Project

Quality Assurance Manager (March 2012 – August 2015)

Quality Assurance Manager on this \$50 million interchange project in Arlington, Virginia. This project included the replacement of the Washington Blvd. bridge over Columbia Pike that was built in the 1940's by the War Department as part of the Pentagon Roadway Network. The new bridge has many architectural and aesthetic features including; decorative pylons in each corner, hunched steel fascia girders with a two-tone paint scheme to mimic the previous arch, a relief pattern incorporated into the vertical outer surfaces, a concrete block pattern on retaining and abutment walls, and medallions with images reflecting the historical significance of Freedmen's Village, for which the bridge will be named. Responsible for all of the QA oversight and testing as well as monitoring the QC program for compliance with the project specific QA/QC plan as well as the Virginia Department of Transportation (VDOT) Minimum Requirements for Quality Assurance & Quality Control on Design-Build & Public-Private Transportation Act Projects.

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

| | |
|--|--|
| Resume of Key Personnel anticipated for the Project. | |
| a. Name & Title: | David Hieber, PE, Associate |
| b. Project Assignment: | Lead Structural Engineer |
| c. Name of Firm with which you are now associated: | Dewberry & Davis LLC |
| d. Years experience: With this Firm <u>5.25</u> Years With Other Firms <u>9.75</u> Years Please list chronologically (most recent experience first) your employment history, position and general experience or fields of practice for the last fifteen (15) years. | <p>Dewberry & Davis LLC January 2008 to Present</p> <ul style="list-style-type: none"> • Route 711 (Alder School Road) over South Fork Catoctin Creek, Loudoun County, Senior Structural Engineer • Barrister Street over Dulles Greenway, TRIP II, Senior Structural Engineer • Fairfax County Parkway Phase III, FHWA-EFLHD, Lead Structural Engineer • John Marshall Highway over Norfolk Southern Railway, VDOT, Senior Structural Engineer • Pacific Boulevard over W&OD Trail, VDOT, Lead Structural Engineer • Pacific Boulevard over Cabin Branch, VDOT, Lead Structural Engineer • Atlantic Boulevard over W&OD Trail, VDOT, Lead Structural Engineer • Maryland Intercounty Connector (ICC) Contract C, Maryland State Highway Administration, Senior Structural Engineer <p>KPFF Consulting Engineers March 2006 to January 2008</p> <ul style="list-style-type: none"> • South Lander Street over BNSF Railway, City of Seattle, Lead Structural Engineer • White River Pedestrian Bridge Feasibility Study, King County, Project Manager and Lead Structural Engineer • Pilchuck Creek Crossing (Centennial Trail), Snohomish County Parks and Recreation, Structural Engineer • Rinker Crossing (Centennial Trail), Snohomish County Parks and Recreation, Structural Engineer <p>CH2M Hill March 2005 to March 2006</p> <ul style="list-style-type: none"> • 2/1 WS Ramp over Hewitt Avenue (Everett I-5 DB Project), WSDOT, Lead Structural Engineer • NE Ramp over Hewitt Avenue (Everett I-5 DB Project), WSDOT, Lead Structural Engineer • I-5 NBL over Hewitt Avenue (Everett I-5 DB Project), WSDOT, Lead Structural Engineer <p>University of Washington September 2003 to March 2005</p> <ul style="list-style-type: none"> • Precast Concrete Pier Systems for Rapid Construction of Bridges, WSDOT, Graduate Research Assistant <p>Earth Tech July 1998 to July 2003</p> <ul style="list-style-type: none"> • Route 674 (Wellington Road) over Norfolk Southern Railroad, VDOT, Structural Engineer • Route 288 over West Creek Parkway, VDOT, Structural Engineer • Route 6 (Paterson Avenue) over Route 288, VDOT, Structural Engineer • Route 360 (Hull Street Road) over Swift Creek, Chesterfield County, Structural Engineer |
| e. Education: Name & Location of Institution(s)/Degree(s)/Year/Specialization: | <p>University of Washington, Seattle, WA / MS / 2005 / Civil Engineering Virginia Polytechnic Institute and State University, Blacksburg, VA / BS / 1998 / Civil Engineering</p> |
| f. Active Registration: Year First Registered/ Discipline/VA Registration #: | <p>Professional Engineer / 2003 / Virginia #038176/ 2007 Washington #43926/2011 North Carolina #038331/ / 2012 / Georgia #037185</p> |
| g. Document the extent and depth of your experience and qualifications relevant to the Project. | <ol style="list-style-type: none"> 1. <i>Note your specific responsibilities and authorities for each assignment, not those of the firm.</i> 2. <i>Note whether experience is with current firm or with other firm.</i> 3. <i>Provide beginning and end dates for each assignment.</i> <p>(List at least three (3), but no more than five (5) relevant projects for which you have performed a similar function.)</p> <p>1. Fairfax County Parkway Phase III Improvements - Fairfax County, VA Dewberry, Lead Structural Engineer (March 2010 – December 2012)</p> |

ATTACHMENT 4.4.2
KEY PERSONNEL RESUME FORM

Mr. Hieber served as Lead Structural Engineer for this \$22 million design-build project with Shirley Contracting under contract to the Federal Highway Administration, Eastern Federal Lands Highway Division (EFLHD). He was responsible for the final design and detailing of the two-span (92-ft. – 106-ft.) bridge with a 25-degree skew carrying Relocated Rolling Road and a 17-ft. wide shared use path over Fairfax County Parkway. The structure makes use of precast concrete bulb tee beams supported by full integral abutments on steel H-piles behind MSE walls. The pier is a multicolumn pier founded on steel H-piles and was designed to resist the AASHTO LRFD Vehicular Collision Force. The bridge was designed to meet the requirements of the VDOT Structure and Bridge Manuals and the AASHTO LRFD Bridge Design Specifications. Mr. Hieber's responsibilities included coordination with roadway designer, geotechnical engineer, DB contractor, VDOT NOVA District Structure and Bridge, and EFLHD. Also responsible for the coordination and review of shop drawings and answering contractor's RFI's.

2. Atlantic Boulevard over W&OD Trail - Loudoun County, VA

Dewberry, Lead Structural Engineer (March 2009 – December 2011)

Mr. Hieber served as Lead Structural Engineer for the bridge carrying Atlantic Boulevard over the Washington and Old Dominion (W&OD) Trail in Loudoun County. This bridge design was part of the Route 28 Corridor Improvements Project. He was responsible for the final design and detailing of the 170 ft. single span, horizontally curved, composite steel plate girder bridge. The structure layout is on a 600 ft. radius horizontal curve and has 40 deg. skewed abutments. The bridge is 97 ft. wide and makes use of eleven 81-in. deep, curved steel plate girders supported on high load multi-rotational bearings. The substructure consists of stub abutments supported on piles behind MSE walls. The structure was designed to meet the requirements of VDOT Structure and Bridge Manuals, AASHTO LRFD Bridge Design Specifications, and the Northern Virginia Regional Park Authority criteria. Mr. Hieber's responsibilities included coordination with the roadway designer, geotechnical engineer, DB contractor, VDOT NOVA District Structure and Bridge, and NVRPA. Also responsible for reviewing shop drawings for conformance with the contract plans and specifications, responding to contractor's Requests for Information, and resolving field issues during construction.

3. Pacific Boulevard over W&OD Trail - Loudoun County, VA

Dewberry, Lead Structural Engineer (September 2008 – September 2010)

Mr. Hieber served as Lead Structural Engineer for the bridge carrying Pacific Boulevard over the Washington and Old Dominion (W&OD) Trail in Loudoun County. This bridge design was part of the Pacific Boulevard Design-Build Project, a \$19 million design-build project for VDOT which extends Pacific Boulevard from Auto World Circle to Severn Way in Loudoun County. He was responsible for final design and detailing of two parallel, 130-ft. single span bridges, on tangent alignment carrying Pacific Boulevard and a 17-ft.-wide shared use path over the W&OD Trail. The structures, which span the Northern Virginia Regional Park Authority's (NVRPA) right-of-way, make use of precast concrete bulb tee beams supported by full integral abutments founded on steel H-piles behind MSE walls. The structures were designed to meet NVRPA, AASHTO, and VDOT requirements. Mr. Hieber's responsibilities also included coordinating with the roadway designer, geotechnical engineer, contractor, VDOT, and NVRPA; reviewing shop drawings for conformance with the plans and specifications; and responding to contractor submitted RFI's.

4. Pacific Boulevard over Cabin Branch - Loudoun County, VA

Dewberry, Lead Structural Engineer (September 2008 – September 2010)

Mr. Hieber served as Lead Structural Engineer for the bridge carrying Pacific Boulevard over Cabin Branch in Loudoun County. This bridge design was part of the Pacific Boulevard Design-Build Project, a \$19 million design-build project for VDOT which extends Pacific Boulevard from Auto World Circle to Severn Way in Loudoun County. Mr. Hieber was responsible for the final design and detailing of a two span (120-ft. – 120-ft.) bridge, on tangent alignment, carrying Pacific Blvd and a 17-ft. wide shared use path over Cabin Branch. The structure makes use of precast concrete bulb tee beams, made continuous for live load, supported on elastomeric bearing pads. The type, location, and depth of the substructure were driven by scour requirements and made use of semi-integral, tall cast-in-place abutments founded on spread footings and a multi-column pier founded on spread footing. Responsibilities also included coordination with hydraulic engineers, roadway engineers, contractor, sub consultants, and VDOT. Also responsible for the coordination and review of shop drawings and answering contractor's Requests for Information during construction.

5. John Marshall Highway over Norfolk Southern Railway - Prince William County, VA

Dewberry, Senior Structural Engineer (November 2009 – Present)

Mr. Hieber served as Senior Structural Engineer responsible for final design and detailing of a 125-ft. single span, 40-deg. skewed bridge carrying John Marshall Highway over Norfolk Southern Railway as part of the Route 29/Linton Hall Interchange and Railroad Grade Separation Project. The structure spans two existing Norfolk Southern tracks and provides clearance for two future tracks. The structure makes use of precast concrete bulb tee beams supported by deck slab extension abutments on steel H-piles behind MSE Walls. Due to the proximity of the MSE wall abutments to the railroad tracks, special designed, 2'-6" wide MSE crash walls were used underneath the bridge to protect against train collision. During the design phase, Mr. Hieber's responsibilities included coordination with roadway engineer, geotechnical engineer, and VDOT NOVA District Structure and Bridge. The Route 29/Linton Hall Interchange Railroad Grade Separation Project is currently under construction. Mr. Hieber's current responsibilities include working with VDOT to review shop drawings and answer contractor's Requests for Information during construction for four bridges.

ATTACHMENT 4.4.3

State Project No. 0029-029-128

SCC and DPOR Information - Individuals

Offerors shall complete the table and include the required state registration and licensure information. By completing this table, Offerors certify that their team complies with the requirements set forth in Section 4.2.5 and that all individuals listed are active and in good standing.

| DPOR INFORMATION FOR INDIVIDUALS (RFP Sections 4.4.3.1 and 4.4.3.2) | | | | | | |
|--|--------------------------|--|----------------------------------|-----------------------|---------------------------------|-----------------------------|
| Business Name | Individual's Name | Office Location Where Professional Services will be Provided (City/State) | Individual's DPOR Address | DPOR Type | DPOR Registration Number | DPOR Expiration Date |
| Dewberry Consultants LLC * | Steven Kuntz | Fairfax, Virginia | Haymarket, Virginia 20169 | Professional Engineer | 0402039440 | June 30, 2014 |
| Dewberry Consultants LLC * | David Hieber | Fairfax, Virginia | Fairfax, Virginia 22030 | Professional Engineer | 0402038176 | June 30, 2013 |
| Quinn Consulting Services, Inc. | John Vicinski | Chantilly, Virginia | Chantilly, Virginia 20151 | Professional Engineer | 0402026380 | August 31, 2013 |
| Diversified Property Services, Inc. of Virginia | Patricia Dablock | Timonium, Maryland | Timonium, Maryland 21093 | Real Estate Appraiser | 4008001190 | November 30, 2014 |
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*Formally known as Dewberry & Davis, LLC

4.4.4 DBE SUBCONTRACTING NARRATIVE

4.4 POST NOTICE OF INTENT TO AWARD SUBMITTAL

4.4.4 DBE SUBCONTRACTING NARRATIVE

Commitment To Achievement of DBE Goals

Shirley Contracting Company, LLC (Shirley) is committed to achieving the 15% DBE participation goal for the Route 29 Bridge over Little Rocky Run Design-Build Project through design and construction activities.

As one of Virginia's largest General Contractors performing Virginia Department of Transportation work, we take pride in our 39 year history of providing opportunities to Disadvantaged Business Enterprises. Our record of compliance in meeting federal, state and local DBE goals on all of our past and present projects is an accomplishment we are proud of.

Plan To Meet Subcontracting Goals

As submitted with our Price proposal for the Project, Shirley has proposed providing 15.52% or \$1,774,704.00 of the total project amount to meeting the DBE goal for the Project. The firms will be we will utilize on the project are identified on our C-111 Summary Form which is attached.

The following narrative outlines the steps Shirley has taken to meet the DBE goal for the Project. Our Team first examined the Project, the nature of the work, and our internal company DBE database to determine where we believe the opportunities for DBE participation were available. Once we determined the areas where participation was likely, working with our design partner Dewberry, we took steps to ensure that we communicated with and provided adequate notice of the project opportunities to the DBE community.

- Initially, we contacted DBE firms included in our company database to inform them of the opportunity. We utilized e-mail solicitations identifying the scope of the Project, the and construction trades we believed would be able to provide subcontracting opportunities, and provided notice that plans were available at our company's main office for viewing. We established a single point of contact for all potential DBE firms so that questions regarding the Project and potential opportunities would be directed to the contact person and answered promptly.
- In addition to e-mails to subcontractors and vendors in our database, we made initial and follow-up telephone calls to these firms as a means of determining actual interest in the Project and to answer any questions about possible opportunities.
- We also posted the opportunity on our company website to reach a broader spectrum of contractors, vendors and other potential interested persons. Once again, the name and phone number of a contact person was included for questions about the opportunity.
- Throughout the development and preparation of our Letter of Submittal and Price Proposals for the Project, we tracked and maintained the status of our expected DBE participation. In this manner, we were immediately and constantly aware of the need to solicit increased participation from the DBE community in order to meet the goal.

Throughout the design and construction phases of the Project, we will continually monitor the status of our Team's DBE participation. The Design-Build Project Manager Seth Bourne will be responsible for this task, and will develop a method to do so that will be shared with VDOT on a regular basis.

As an ongoing process, Shirley stays up to date with changes and modifications to applicable DBE program rules so that we are best positioned to meet or exceed the goals established for the Project. Based on our experience and efforts we will put forward on this Project, we will meet or exceed the 15% DBE goal for the Route 29 Bridge Over Little Rocky Run Design-Build Project.

4.4.5 PROPOSAL SCHEDULE

Schedule Narrative

I. Project Milestones

The Sycolin Road Overpass of the Rt. 7/15 Bypass in Leesburg Project Schedule details our plan for all phases of the design/build process based on the following project Milestones:

| | |
|------------------------------|------------------|
| Notice of Award Date: | April 12, 2013 |
| Notice to Proceed Date: | June 13, 2013 |
| Substantial Completion Date: | August 28, 2015 |
| Final Completion Date: | October 22, 2015 |

II. Work Breakdown Structure

Level 1 of the Work Breakdown Structure (WBS) groups the schedule into the phases of the design/build process as follows:

- A. Project Milestones: Area reserved for easy review of the project status.
- B. Design: Includes preliminary engineering services, plan development, submittal milestones, and VDOT reviews and approvals of plans. This section of the schedule includes a second level WBS structure to group design activities by type of design submission including roadway plans, ROW plans and acquisition, bridge plans, Fairfax County Water and Sewer plans.
- C. Utility Relocations: The utility relocation section of the schedule includes activities for UFI meetings, preparation of utility plans and estimates (P&E) by the utility companies, approval of the P&E by Design Builder and VDOT, and utility relocation construction.
- D. Construction: The construction section of the schedule is segmented by two additional levels of WBS structure to divide construction activities into groups of work packages, organized by Construction Phase, that can be easily tracked to ensure on-time completion of the project. Those additional levels include Phases 1A (Construct Temporary Pavement in Median), 1 (Construct New EB Roadway Sta. 107+50 to 117+25), 2A (Construct Temp. Pavement on Shoulder), 2 (Construct New WB Roadway Sta. 107+50 to 117+25), and Phase 3 (Construct EB Curb and Sidewalk Sta. 102+00 to 119+00).
- E. Bridge Construction: The bridge construction section of the schedule is segmented into two additional levels of WBS structure to divide the bridge construction into groups of work packages, organized by the Eastbound and Westbound bridge, that can be easily tracked to ensure on-time completion of the project.

Below is a complete outline of the WBS Structure for the Project:

| LEVEL 1 | LEVELS 2, 3 | |
|------------|---------------------|---|
| 01 | Project Milestones | |
| 02 | Design | |
| | 02.01 | ROW Plans |
| | 02.02 | Roadway, Bridge & Water Plans |
| | 02.03 | Joint Wetlands and Waters Permit |
| | 02.04 | Right of Way Acquisition |
| 03 | Utility Relocations | |
| 04 | Construction | |
| | 04.01 | Phase 1A Construct Temporary Pavement in Median |
| | 04.02 | Phase 1 Construct New EB Roadway |
| | 04.03 | Phase 2A Construct Temp. Pavement on Shoulder |
| | 04.04 | Phase 2 Construct New WB Roadway |
| | 04.05 | Phase 3 Construct EB Curb and Sidewalk |
| 05 | Bridge Construction | |
| | 05.01 | Eastbound Bridge |
| | 05.01 | Westbound Bridge |

III. Calendars

The following is a description of the calendars used for this project.

Global Calendar – All calendars are based on 8 hour work days and include the following holidays: New Years Day, Memorial Day, 4th of July, Labor Day, Thanksgiving, the day after Thanksgiving, and Christmas.

C00077322DB52-1 - “5-Day Workweek” – this calendar is based on five working days per week and is used for all design and administrative activities that are unaffected by weather.

C00077322DB52-2 – “7-Day Calendar” – Assigned to activities that have durations based on calendar days instead of work days. For example VDOT’s 21 calendar day review duration.

C00077322DB52-3 – “5-Day Winter Imp” – This calendar is based on working part-time from December 25 to March 10. It is assigned to activities that are anticipated to have reduced productivity during the winter months.

C00077322DB52-4 – “5-Day Winter SD” – Assigned to activities that are anticipated to be shut down during the winter, such as asphalt paving, striping, and painting. This calendar contains no working days from December 25 of one year to March 10 of the next year.

IV. Schedule Timing and Critical Path

Design Phase:

The design phase includes preparation and submission of ROW, roadway, and bridge plans at multiple stages of the design process with a 21 calendar day activity for VDOT and FHWA review after each submission. The design phase also includes non-critical activities for the completion of surveys, utility designations, test pits, utility relocation plans, geotechnical investigations and joint wetlands and waters permits, including a 90 calendar day activity for VDOT’s review of the geotechnical report prior to submission of the final roadway plans. Our team will begin the design phase of the project immediately upon notice of award and the administration of the right-of-way acquisitions will start following the 1st

submission of ROW plans. The first activities will include title searches and appraisals for affected properties. Following approval of the ROW plans we will finalize the appraisals, complete the review appraisals and submit the appraisal to VDOT for approval. Once VDOT has approved the appraisals we will send the offers to the property owners and begin negotiations. Within two months of receipt of the offer by the property owner we expect to obtain a signed option, a right-of-entry agreement or file certificate on the property. This will allow access to the properties in February, 2014. If property is obtained by settlement, property will not be accessed for construction until November 2014. Following receipt of a signed option or settlements we will obtain lien releases and complete ROW acquisition of the properties. The first formal plan submission of the ROW plans and roadway plans will occur on June 19, 2013 and July 26, 2013 respectively. The preliminary schedule reflects the submission of ROW as critical.

Utility Relocations:

Utility relocation on the project include relocation of the overhead Dominion Power line, overhead Verizon line, overhead Cox and Shentel lines, 24" waterline, 12" waterline and the Verizon ductbank. The Dominion Power, Cox, Shentel, and the 24" water lines will be temporarily relocated within project ROW to allow the construction to begin, however the permanent configuration will not be able to be completed without ROW acquisition. The overhead Verizon and the 24" water lines will not be relocated without ROW acquisition. We anticipate the need to install a new sanitary sewer connection at one of the adjacent properties.

Construction:

Mobilization will begin in February 2014 in accordance with the milestone. Construction will begin at with the installation of temporary pavement in the median of Route 29. Existing pavement demolition, earthwork, storm drainage, subgrade, and asphalt paving for Eastbound Route 29 begins in March 2014 and continues through November 2014. Earthwork, storm drainage, subgrade, and asphalt paving for Westbound Route 29 will begin in November of 2014 and continue through August 2015. Installation of final pavement marking and signs and will be complete by the project substantial completion date of August 28, 2015. The Punch list activities will follow substantial completion, and be finished by the project completion date of October 22, 2015.

Bridge Construction:

The bridge construction will begin in February 2014 following Mobilization and the installation of necessary erosion and sedimentation controls. The Eastbound bridge will be constructed first, beginning with excavation and concrete substructure in February 2014 and finishing in June 2014. The superstructure beams and deck will begin in June 2014 and finish in October 2014. The Westbound bridge will begin after traffic has been configured to temporarily run on Eastbound Route 29. Excavation and substructure concrete will begin in December 2014 and finish in March 2015. Superstructure beams and deck will begin in March 2015 and finish in July 2015. Once the bridges have been completed traffic will be switched to run in its ultimate configuration as the roadway construction is completed.

Critical Path:

The Critical Path of the project follows the preparation, submission, and VDOT review/approval activities for the ROW Plans starting at Notice of Award and ending with Obtain Option, Right of Entry, or File Certificate on February 20, 2014. Upon ROW acquisition completion, the critical path of construction flows through the relocation of the Dominion Virginia Power, Cox, and Shentel lines to be complete by October 7, 2014. Once the referenced utilities have been completed the critical path continues through the placement of aggregate base and asphalt on Eastbound Route 29, and eventually shifting traffic on to Eastbound Route 29 on November 25, 2014. After the traffic switch the critical path flows through construction of the Westbound bridge. Once the Westbound bridge is complete, traffic can be switched to the final configuration on July 16, 2015. At this stage the critical path goes through the finish work on Eastbound Route 29, and finally surface paving, permanent pavement markings, and signs finishing by the Substantial Completion date of August 28, 2015. Finally we will complete punch list activities before final completion on October 22, 2015.

| Activity ID | Activity Name | Original Duration | Start | Finish | Total Float | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | 2015 | | | | | | | | | | | | 2016 | | | |
|--|--|-------------------|------------|------------|-------------|---|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|--|
| | | | | | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | | |
| Rt 29 Bridge Over Little Rocky Run Proposal Sched | | | | | | 643 | 12-Apr-13 | 22-Oct-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Milestones | | | | | | 643 | 12-Apr-13 | 22-Oct-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3630 | Notice of Intent to Award | 0 | 12-Apr-13 | | 0 | ◆ Notice of Intent to Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1000 | Notice to Proceed | 0 | 13-Jun-13* | | 0 | ◆ Notice to Proceed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1010 | Notice to Proceed Construction | 0 | 13-Jun-13 | | 25 | ◆ Notice to Proceed Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1020 | Substantial Completion | 0 | | 28-Aug-15* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3640 | Punchlist | 54 | 29-Aug-15 | 22-Oct-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1030 | Final Completion | 0 | | 22-Oct-15* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design | | | | | | 398 | 12-Apr-13 | 05-Nov-14 | 245 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW Plans | | | | | | 90 | 12-Apr-13 | 19-Aug-13 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3590 | Prepare and Submit ROW Plans | 48 | 12-Apr-13 | 19-Jun-13 | 0 | ■ Prepare and Submit ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3600 | VDOT Review/Comment ROW Plans (300/301 Review) | 21 | 20-Jun-13 | 11-Jul-13 | 0 | ■ VDOT Review/Comment ROW Plans (300/301 Review) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3610 | Revise and Resubmit ROW Plans | 12 | 12-Jul-13 | 29-Jul-13 | 0 | ■ Revise and Resubmit ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3620 | VDOT Review/Approve ROW Plans | 21 | 30-Jul-13 | 19-Aug-13 | 0 | ■ VDOT Review/Approve ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roadway, Bridge & Water Plans | | | | | | 149 | 13-Jun-13 | 15-Jan-14 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1040 | Roadway Design | 30 | 13-Jun-13 | 25-Jul-13 | 25 | ■ Roadway Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1170 | Prep/Submit Water Relocation Plans | 30 | 13-Jun-13 | 25-Jul-13 | 25 | ■ Prep/Submit Water Relocation Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1045 | Send 15 Day Property Owner Notification | 15 | 13-Jun-13 | 27-Jun-13 | 54 | ■ Send 15 Day Property Owner Notification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1260 | Prepare/Submit Bridge Plans TS&L | 10 | 13-Jun-13 | 26-Jun-13 | 53 | ■ Prepare/Submit Bridge Plans TS&L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2770 | Scope Validation Period | 90 | 13-Jun-13 | 12-Sep-13 | 32 | ■ Scope Validation Period | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1270 | VDOT/FHWA Review Bridge Plans TS&L | 21 | 27-Jun-13 | 26-Jul-13 | 53 | ■ VDOT/FHWA Review Bridge Plans TS&L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1050 | Supplemental Survey and Mapping | 15 | 28-Jun-13 | 19-Jul-13 | 82 | ■ Supplemental Survey and Mapping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1070 | Geotechnical Investigations | 40 | 28-Jun-13 | 23-Aug-13 | 68 | ■ Geotechnical Investigations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1060 | Supplemental Utility Designations and Test | 15 | 22-Jul-13 | 09-Aug-13 | 82 | ■ Supplemental Utility Designations and Test | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1180 | Fairfax Water Review/Comment | 21 | 26-Jul-13 | 23-Aug-13 | 129 | ■ Fairfax Water Review/Comment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1840 | Prepare/Submit Bridge Plans (1st Submission) | 60 | 29-Jul-13 | 21-Oct-13 | 53 | ■ Prepare/Submit Bridge Plans (1st Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1080 | VDOT/FHWA Review Geotechnical Report | 90 | 24-Aug-13 | 22-Nov-13 | 98 | ■ VDOT/FHWA Review Geotechnical Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1190 | Prep/Submit Final Water Relocation Plans | 10 | 26-Aug-13 | 09-Sep-13 | 129 | ■ Prep/Submit Final Water Relocation Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1200 | Fairfax Water Review/Comment/Approve Final Water Reloc | 21 | 10-Sep-13 | 08-Oct-13 | 129 | ■ Fairfax Water Review/Comment/Approve Final Water Reloc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1090 | Submit Roadway Plans (1st Submission) | 0 | 13-Sep-13 | 13-Sep-13 | 22 | ■ Submit Roadway Plans (1st Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1100 | VDOT/FHWA Review/Comment Roadway Plans (1st Submis | 21 | 13-Sep-13 | 03-Oct-13 | 64 | ■ VDOT/FHWA Review/Comment Roadway Plans (1st Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1110 | Prep Roadway Plans (2nd Submission) | 15 | 04-Oct-13 | 24-Oct-13 | 44 | ■ Prep Roadway Plans (2nd Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2400 | VDOT/FHWA Review Bridge Plans (1st Submission) | 21 | 22-Oct-13 | 19-Nov-13 | 53 | ■ VDOT/FHWA Review Bridge Plans (1st Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1120 | Submit Roadway Plans (2nd Submission) | 0 | 25-Oct-13 | 25-Oct-13 | 44 | ■ Submit Roadway Plans (2nd Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1130 | VDOT/FHWA Review/Comment Roadway Plans (2nd Submi | 21 | 25-Oct-13 | 14-Nov-13 | 64 | ■ VDOT/FHWA Review/Comment Roadway Plans (2nd Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1140 | Prepare Final Roadway Plans | 15 | 15-Nov-13 | 09-Dec-13 | 44 | ■ Prepare Final Roadway Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2660 | Prepare/Submit Bridge Plans (Final Submission) | 10 | 20-Nov-13 | 05-Dec-13 | 53 | ■ Prepare/Submit Bridge Plans (Final Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2670 | VDOT/FHWA Review/Approve Final Bridge Plans | 21 | 06-Dec-13 | 07-Jan-14 | 53 | ■ VDOT/FHWA Review/Approve Final Bridge Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1150 | Submit Roadway Plans (Final Submission) | 0 | 24-Dec-13 | 24-Dec-13 | 34 | ■ Submit Roadway Plans (Final Submission) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1160 | VDOT/FHWA Review/Approve Final Roadway Plans | 21 | 24-Dec-13 | 15-Jan-14 | 48 | ■ VDOT/FHWA Review/Approve Final Roadway Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Joint Wetlands and Waters Permit | | | | | | 173 | 28-Jun-13 | 06-Mar-14 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1210 | Complete Wetland Delineations | 5 | 28-Jun-13 | 05-Jul-13 | 38 | ■ Complete Wetland Delineations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1220 | Complete Unified Stream Methodology | 5 | 28-Jun-13 | 05-Jul-13 | 58 | ■ Complete Unified Stream Methodology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1230 | Obtain COE Jurisdictional Determinations | 20 | 08-Jul-13 | 02-Aug-13 | 38 | ■ Obtain COE Jurisdictional Determinations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1240 | Prepare Joint Wetlands and Waters Permits | 15 | 22-Aug-13 | 13-Sep-13 | 25 | ■ Prepare Joint Wetlands and Waters Permits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1245 | Aquire Environmental Mitigation | 10 | 22-Aug-13 | 05-Sep-13 | 30 | ■ Aquire Environmental Mitigation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1250 | Submit Joint Permit App (JPA to Agencies) | 0 | 13-Sep-13 | 13-Sep-13 | 25 | ■ Submit Joint Permit App (JPA to Agencies) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1280 | Agency Review of JPA | 120 | 13-Sep-13 | 05-Mar-14 | 25 | ■ Agency Review of JPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1300 | Prepare and Submit VSMP Permit | 5 | 16-Jan-14 | 22-Jan-14 | 34 | ■ Prepare and Submit VSMP Permit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1310 | Agency Review of VSMP | 21 | 23-Jan-14 | 20-Feb-14 | 34 | ■ Agency Review of VSMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



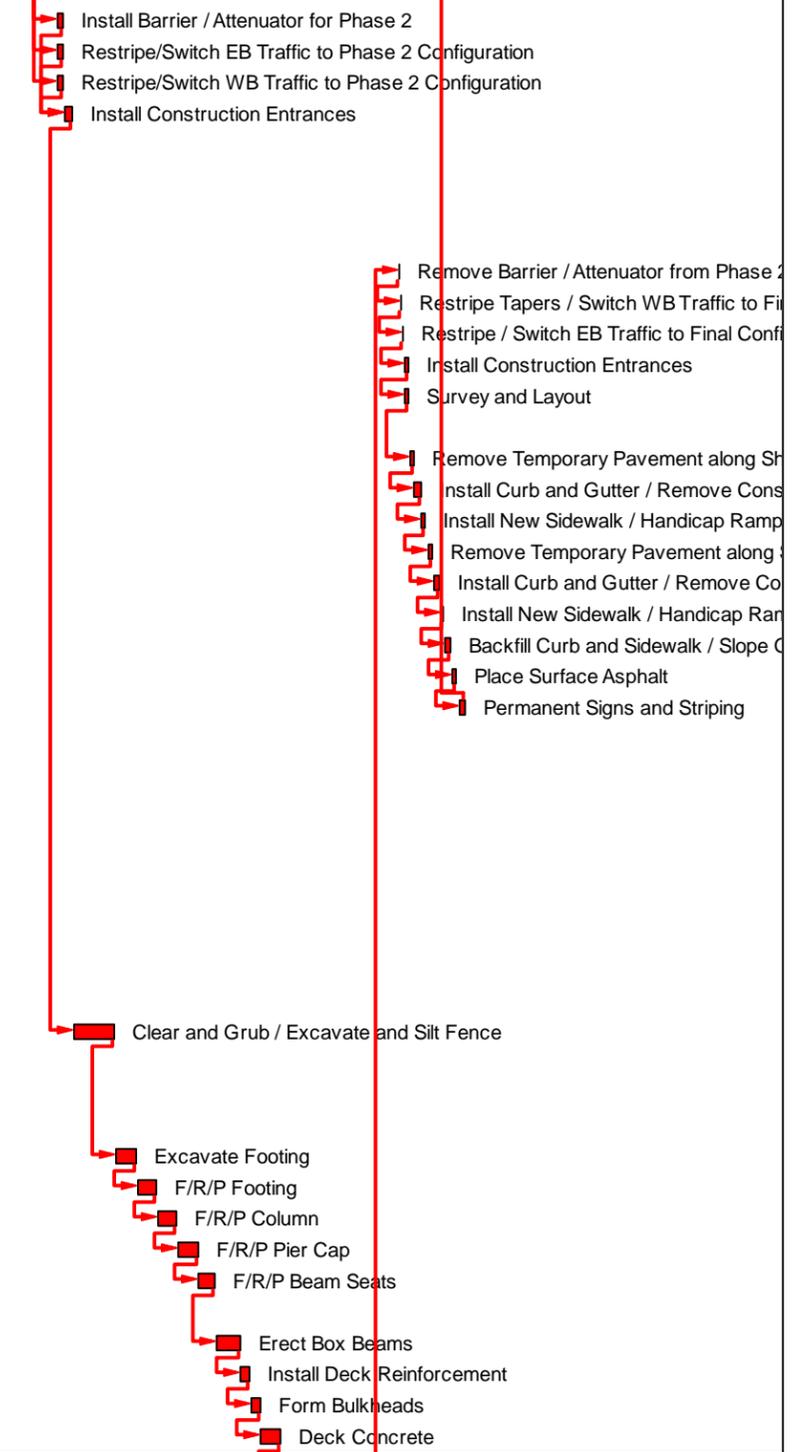
| Activity ID | Activity Name | Original Duration | Start | Finish | Total Float | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | 2015 | | | | | | | | | | | | 2016 | | |
|---|--|-------------------|------------------|------------------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|
| | | | | | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2730 | Backfill Curb and Sidewalk / Slope | 3 | 29-Jul-15 | 31-Jul-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2740 | Permanent Seed and Mulch | 2 | 03-Aug-15 | 04-Aug-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2750 | Pave Asphalt Base | 2 | 05-Aug-15 | 06-Aug-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2760 | Place IM Asphalt | 2 | 07-Aug-15 | 10-Aug-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pavement / C&G / Underdrain Misc (Sta 107+50 - Bridge) | | 24 | 05-Jun-15 | 09-Jul-15 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2570 | Place Aggregate Base | 6 | 05-Jun-15 | 12-Jun-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2580 | Install Underdrain | 3 | 15-Jun-15 | 17-Jun-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2640 | Pave Asphalt Base | 2 | 15-Jun-15 | 16-Jun-15 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2650 | Place IM Asphalt | 2 | 17-Jun-15 | 18-Jun-15 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2590 | Install Header Curb (median) | 3 | 18-Jun-15 | 22-Jun-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2600 | Install Curb and Gutter / Construction Entrances | 4 | 23-Jun-15 | 26-Jun-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2610 | Install New Sidewalk / Handicap Ramps | 3 | 29-Jun-15 | 01-Jul-15 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2620 | Backfill Curb and Sidewalk / Slope | 3 | 02-Jul-15 | 07-Jul-15 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2630 | Permanent Seed and Mulch | 2 | 08-Jul-15 | 09-Jul-15 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 3 - Construct EB Curb and Sidewalk (Sta 102+00 - 119+00) | | 34 | 14-Jul-15 | 28-Aug-15 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOT and Construction Access | | 5 | 14-Jul-15 | 20-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2790 | Remove Barrier / Attenuator from Phase 2 | 1 | 14-Jul-15 | 14-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2800 | Restripe Tapers / Switch WB Traffic to Final Configuration | 1 | 15-Jul-15 | 15-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2810 | Restripe / Switch EB Traffic to Final Configuration | 1 | 16-Jul-15 | 16-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2820 | Install Construction Entrances | 2 | 17-Jul-15 | 20-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2830 | Survey and Layout | 2 | 17-Jul-15 | 20-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Demolition / C&G / Sidewalk / Misc | | 29 | 21-Jul-15 | 28-Aug-15 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2840 | Remove Temporary Pavement along Shoulder, 103+00 to Bri | 3 | 21-Jul-15 | 23-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2850 | Install Curb and Gutter / Remove Const Entrances, 103+00 t | 3 | 24-Jul-15 | 28-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2860 | Install New Sidewalk / Handicap Ramps 103+00 to Bridge | 3 | 29-Jul-15 | 31-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2870 | Backfill Curb and Sidewalk / Slope Grading, 103+00 to Bridge | 3 | 03-Aug-15 | 05-Aug-15 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2890 | Remove Temporary Pavement along Shoulder, 119+00 to Bri | 3 | 03-Aug-15 | 05-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2880 | Perminant Seed and Mulch, 103+00 to Bridge | 2 | 06-Aug-15 | 07-Aug-15 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2900 | Install Curb and Gutter / Remove Const Entrances, 119+00 t | 3 | 06-Aug-15 | 10-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2910 | Install New Sidewalk / Handicap Ramps 119+00 to Bridge | 3 | 11-Aug-15 | 13-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2920 | Backfill Curb and Sidewalk / Slope Grading, 119+00 to Bridge | 3 | 14-Aug-15 | 18-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2930 | Perminant Seed and Mulch, 119+00 to Bridge | 2 | 19-Aug-15 | 20-Aug-15 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2940 | Place Surface Asphalt | 3 | 19-Aug-15 | 21-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2950 | Permanent Signs and Striping | 5 | 24-Aug-15 | 28-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridge Construction | | 353 | 21-Feb-14 | 13-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Bound Bridge | | 171 | 21-Feb-14 | 22-Oct-14 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earthwork/ E&S/ Misc | | 15 | 21-Feb-14 | 13-Mar-14 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3570 | Clear and Grub / Excavate and Silt Fence | 15 | 21-Feb-14 | 13-Mar-14 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment A | | 50 | 28-Mar-14 | 06-Jun-14 | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2970 | Install Shoring | 15 | 28-Mar-14 | 17-Apr-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2980 | Excavate Footing | 5 | 18-Apr-14 | 24-Apr-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2990 | F/R/P Footing | 10 | 25-Apr-14 | 08-May-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3000 | F/R/P Abutment Wall | 10 | 09-May-14 | 22-May-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3010 | F/R/P Beam Seats and Backwall | 10 | 23-May-14 | 06-Jun-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3020 | Backfill Abut A | 5 | 23-May-14 | 30-May-14 | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment B | | 50 | 28-Mar-14 | 06-Jun-14 | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3030 | Install Shoring | 15 | 28-Mar-14 | 17-Apr-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3040 | Excavate Footing | 5 | 18-Apr-14 | 24-Apr-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3050 | F/R/P Footing | 10 | 25-Apr-14 | 08-May-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3060 | F/R/P Abutment Wall | 10 | 09-May-14 | 22-May-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3070 | F/R/P Beam Seats and Backwall | 10 | 23-May-14 | 06-Jun-14 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Actual Work Remaining Work Critical Remaining Work

| Activity ID | Activity Name | Original Duration | Start | Finish | Total Float | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | 2015 | | | | | | | | | | | | 2016 | | |
|---|--|-------------------|-----------|------------|-------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|
| | | | | | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | |
| Rt 29 Bridge Over Little Rocky Run Proposal Sched | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Milestones | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3630 | Notice of Intent to Award | 0 | 12-Apr-13 | 22-Oct-15 | 0 | ◆ Notice of Intent to Award | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1020 | Substantial Completion | 0 | | 28-Aug-15* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3640 | Punchlist | 54 | 29-Aug-15 | 22-Oct-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1030 | Final Completion | 0 | | 22-Oct-15* | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3590 | Prepare and Submit ROW Plans | 48 | 12-Apr-13 | 19-Jun-13 | 0 | Prepare and Submit ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3600 | VDOT Review/Comment ROW Plans (300/301 Review) | 21 | 20-Jun-13 | 11-Jul-13 | 0 | VDOT Review/Comment ROW Plans (300/301 Review) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3610 | Revise and Resubmit ROW Plans | 12 | 12-Jul-13 | 29-Jul-13 | 0 | Revise and Resubmit ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3620 | VDOT Review/Approve ROW Plans | 21 | 30-Jul-13 | 19-Aug-13 | 0 | VDOT Review/Approve ROW Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Roadway, Bridge & Water Plans | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Joint Wetlands and Waters Permit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Right Of Way Aquisition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1350 | Appraisal | 45 | 27-Jun-13 | 29-Aug-13 | 0 | Appraisal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1360 | Independent Appraisal Review | 10 | 30-Aug-13 | 13-Sep-13 | 0 | Independent Appraisal Review | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1370 | VDOT Appraisal Review | 21 | 14-Sep-13 | 04-Oct-13 | 2 | VDOT Appraisal Review | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1380 | Prepare and Deliver Offer | 15 | 07-Oct-13 | 25-Oct-13 | 0 | Prepare and Deliver Offer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1390 | Negotiations | 40 | 28-Oct-13 | 24-Dec-13 | 0 | Negotiations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1400 | Obtain Option, Right of Entry or File Certificate | 40 | 26-Dec-13 | 20-Feb-14 | 0 | Obtain Option, Right of Entry or File Certificate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1420 | Lien Releases/Settlements | 40 | 21-Feb-14 | 17-Apr-14 | 0 | Lien Releases/Settlements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utility Relocations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1500 | Relocate Dominion Va Power | 80 | 18-Apr-14 | 11-Aug-14 | 0 | Relocate Dominion Va Power | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1510 | Relocate Cox | 20 | 12-Aug-14 | 09-Sep-14 | 0 | Relocate Cox | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1520 | Relocate Shentel | 20 | 10-Sep-14 | 07-Oct-14 | 0 | Relocate Shentel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 1A - Construct Temp Pavement in Median | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 1 - Construct New EB Roadway (Sta 107+50 - 117+25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOT and Construction Access | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clearing and E&S Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Demolition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earthwork | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drainage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pavement / C&G / Underdrain Misc (Sta 107+50 - Bridge) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2050 | Place Aggregate Base, Station 107+50 to Bridge | 5 | 01-Oct-14 | 07-Oct-14 | 0 | Place Aggregate Base, Station 107+50 to Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2060 | Install Underdrain, Station 17+50 to Bridge | 5 | 08-Oct-14 | 14-Oct-14 | 0 | Install Underdrain, Station 17+50 to Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2070 | Install Curb Header (Median), Station 105+75 to Bridge | 5 | 15-Oct-14 | 21-Oct-14 | 0 | Install Curb Header (Median), Station 105+75 to Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pavement / C&G / Underdrain Misc (Bridge - Sta 117+25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2100 | Place Aggregate Base, Bridge to Sta 117+25 | 5 | 08-Oct-14 | 14-Oct-14 | 0 | Place Aggregate Base, Bridge to Sta 117+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2110 | Install Underdrain, Bridge to Sta 117+25 | 5 | 15-Oct-14 | 21-Oct-14 | 0 | Install Underdrain, Bridge to Sta 117+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2120 | Install Curb Header (Median), Bridge to Sta 117+25 | 5 | 22-Oct-14 | 28-Oct-14 | 0 | Install Curb Header (Median), Bridge to Sta 117+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2130 | Place Asphalt Base, Bridge to Sta 117+25 | 2 | 29-Oct-14 | 30-Oct-14 | 0 | Place Asphalt Base, Bridge to Sta 117+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2140 | Place IM Asphalt, Bridge to Sta 117+25 | 2 | 31-Oct-14 | 03-Nov-14 | 0 | Place IM Asphalt, Bridge to Sta 117+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 2A - Construct Temp Pavement on Shoulder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2150 | Excavate Median for Temporary Pavement on Shoulder | 5 | 04-Nov-14 | 10-Nov-14 | 0 | Excavate Median for Temporary Pavement on Shoulder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2160 | Place Stone for Temporary Pavement on Shoulder | 5 | 11-Nov-14 | 17-Nov-14 | 0 | Place Stone for Temporary Pavement on Shoulder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2170 | Place Temporary Pavement on Shoulder | 3 | 18-Nov-14 | 20-Nov-14 | 0 | Place Temporary Pavement on Shoulder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 2 - Construct New WB Roadway (Sta 107+50 - 117+25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Actual Work Remaining Work Critical Remaining Work ◆ ◆

| Activity ID | Activity Name | Original Duration | Start | Finish | Total Float | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | 2015 | | | | | | | | | | | | 2016 | | |
|---|--|-------------------|-----------|-----------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|
| | | | | | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | |
| Clearing and E&S Controls | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Demolition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earthwork | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drainage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOT and Construction Access | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2180 | Install Barrier / Attenuator for Phase 2 | 3 | 21-Nov-14 | 25-Nov-14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2190 | Restripe/Switch EB Traffic to Phase 2 Configuration | 3 | 21-Nov-14 | 25-Nov-14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2200 | Restripe/Switch WB Traffic to Phase 2 Configuration | 3 | 21-Nov-14 | 25-Nov-14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2210 | Install Construction Entrances | 2 | 26-Nov-14 | 01-Dec-14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pavement / C&G / Underdrain Misc (Bridge - Sta 117+25) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pavement / C&G / Underdrain Misc (Sta 107+50 - Bridge) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phase 3 - Construct EB Curb and Sidewalk (Sta 102+00 - 119+00) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOT and Construction Access | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2790 | Remove Barrier / Attenuator from Phase 2 | 1 | 14-Jul-15 | 14-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2800 | Restripe Tapers / Switch WB Traffic to Final Configuration | 1 | 15-Jul-15 | 15-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2810 | Restripe / Switch EB Traffic to Final Configuration | 1 | 16-Jul-15 | 16-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2820 | Install Construction Entrances | 2 | 17-Jul-15 | 20-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2830 | Survey and Layout | 2 | 17-Jul-15 | 20-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Demolition / C&G / Sidewalk / Misc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2840 | Remove Temporary Pavement along Shoulder, 103+00 to Bri | 3 | 21-Jul-15 | 23-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2850 | Install Curb and Gutter / Remove Const Entrances, 103+00 t | 3 | 24-Jul-15 | 28-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2860 | Install New Sidewalk / Handicap Ramps 103+00 to Bridge | 3 | 29-Jul-15 | 31-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2890 | Remove Temporary Pavement along Shoulder, 119+00 to Bri | 3 | 03-Aug-15 | 05-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2900 | Install Curb and Gutter / Remove Const Entrances, 119+00 t | 3 | 06-Aug-15 | 10-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2910 | Install New Sidewalk / Handicap Ramps 119+00 to Bridge | 3 | 11-Aug-15 | 13-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2920 | Backfill Curb and Sidewalk / Slope Grading, 119+00 to Bridge | 3 | 14-Aug-15 | 18-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2940 | Place Surface Asphalt | 3 | 19-Aug-15 | 21-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A2950 | Permanent Signs and Striping | 5 | 24-Aug-15 | 28-Aug-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bridge Construction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| East Bound Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earthwork/ E&S/ Misc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| West Bound Bridge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earthwork/ E&S/ Misc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3580 | Clear and Grub / Excavate and Silt Fence | 20 | 02-Dec-14 | 30-Dec-14 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abutment B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pier 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3400 | Excavate Footing | 10 | 31-Dec-14 | 14-Jan-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3410 | F/R/P Footing | 10 | 15-Jan-15 | 28-Jan-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3420 | F/R/P Column | 10 | 29-Jan-15 | 11-Feb-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3430 | F/R/P Pier Cap | 10 | 12-Feb-15 | 25-Feb-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3440 | F/R/P Beam Seats | 8 | 26-Feb-15 | 09-Mar-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Superstructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3460 | Erect Box Beams | 13 | 10-Mar-15 | 26-Mar-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3470 | Install Deck Reinforcement | 5 | 27-Mar-15 | 02-Apr-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3480 | Form Bulkheads | 5 | 03-Apr-15 | 09-Apr-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3490 | Deck Concrete | 10 | 10-Apr-15 | 23-Apr-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Activity ID | Activity Name | Original Duration | Start | Finish | Total Float | 2013 | | | | | | | | | | | | 2014 | | | | | | | | | | | | 2015 | | | | | | | | | | | | 2016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------------|-------------------|-----------|-----------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | F | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3500 | Approach Slab | 10 | 24-Apr-15 | 07-May-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3510 | Form and Pour Parapets | 10 | 08-May-15 | 21-May-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3520 | Form and Pour Raised Curb | 5 | 22-May-15 | 29-May-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3530 | Install BR-27C Railing | 5 | 01-Jun-15 | 05-Jun-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3540 | Erect Pedestrian Fence | 5 | 08-Jun-15 | 12-Jun-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3550 | Groove Bridge Deck | 5 | 15-Jun-15 | 19-Jun-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A3560 | VDOT Bridge Safety Inspection | 15 | 22-Jun-15 | 13-Jul-15 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

4.4.6 SCHEDULE OF VALUES

Attachment 4.4.6
State Project 6007-053-S96
SCHEDULE OF VALUES

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| Activity ID ¹ | Item Description | Fuel (F) or Price (P) Adjustment | Item Number | Material Description | Quantity | Unit | Unit Price | Scheduled Value (\$) |
|--------------------------|--|----------------------------------|-------------|----------------------|----------|------|---------------|----------------------|
| A3630 | Notice of Intent to Award | | | | | | \$ - | |
| A3590 | Prepare and Submit ROW Plans | | | | | | \$ 40,650.00 | \$ 40,650.00 |
| A1000 | Notice to Proceed | | | Bond | 1.00 | LS | \$ 100,000.00 | \$ 100,000.00 |
| A1010 | Notice to Proceed Construction | | | | | | \$ - | |
| A1040 | Roadway Design | | | | | | \$ 300,000.00 | \$ 300,000.00 |
| A1170 | Prep/Submit Water Relocation Plans | | | | | | \$ - | |
| A1045 | Send 15 Day Property Owner Notification | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A1260 | Prepare/Submit Bridge Plans TS&L | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A1270 | VDOT Review Bridge Plans TS&L | | | | | | \$ - | \$ - |
| A1840 | Prepare/Submit Bridge Plans (1st Submission) | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A2400 | VDOT Review Bridge Plans (1st Submission) | | | | | | \$ - | \$ - |
| A2660 | Prepare/Submit Bridge Plans (Final Submission) | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A2670 | VDOT Review/Approve Final Bridge Plans | | | | | | \$ - | \$ - |
| A1330 | Begin ROW Aquisition | | | | | | \$ - | \$ - |
| A1340 | Title Research | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A1350 | Appraisal | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1360 | Independent Appraisal Review | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A1380 | Prepare and Deliver Offer | | | | | | \$ 20,000.00 | \$ 20,000.00 |
| A1390 | Negotiations | | | | | | \$ 40,000.00 | \$ 40,000.00 |
| A1400 | Obtain Option, Right of Entry or File Certificate | | | | | | \$ 40,000.00 | \$ 40,000.00 |
| A1430 | VDOT Settles Certificates | | | | | | \$ - | |
| A1440 | Right of Way Aquisition Complete | | | | | | \$ - | |
| A3600 | VDOT Review/Comment ROW Plans (300/301 Review) | | | | | | \$ - | |
| A1050 | Supplemental Survey and Mapping | | | | | | \$ 80,000.00 | \$ 80,000.00 |
| A1070 | Geotechnical Investigations | | | | | | \$ 100,000.00 | \$ 100,000.00 |
| A1210 | Complete Wetland Delineations | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A1220 | Complete Unified Stream Methodology | | | | | | \$ - | |
| A1230 | Obtain COE Jurisdictional Determinations | | | | | | \$ - | |
| A3610 | Revise and Resubmit ROW Plans | | | | | | \$ 155,000.00 | \$ 155,000.00 |
| A3620 | VDOT Review/Approve ROW Plans | | | | | | \$ - | |
| A1060 | Supplemental Utility Designations and Test | | | | | | \$ - | |
| A1090 | Submit Roadway Plans (1st Submission) | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A1100 | VDOT Review/Comment Roadway Plans (1st Submission) | | | | | | \$ - | |
| A1180 | Fairfax Water Review/Comment | | | | | | \$ - | |
| A1240 | Prepare Joint Wetlands and Waters Permits | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A1245 | Aquire Environmental Mitigation | | | | | | \$ 125,000.00 | \$ 125,000.00 |
| A1110 | Prep Roadway Plans (2nd Submission) | | | | | | \$ 200,000.00 | \$ 200,000.00 |
| A1080 | VDOT Review Geotechnical Report | | | | | | \$ - | |
| A1190 | Prep/Submit Final Water Relocation Plans | | | | | | \$ - | |
| A1250 | Submit Joint Permit App (JPA to Agencies) | | | | | | \$ - | |
| A1280 | Agency Review of JPA | | | | | | \$ - | |
| A1120 | Submit Roadway Plans (2nd Submission) | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1130 | VDOT Review/Comment Roadway Plans (2nd Submission) | | | | | | \$ - | |

Attachment 4.4.6
State Project 6007-053-S96
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| Activity ID ¹ | Item Description | Fuel (F) or Price (P) Adjustment | Item Number | Material Description | Quantity | Unit | Unit Price | Scheduled Value (\$) |
|--------------------------|---|----------------------------------|-------------|---------------------------------------|----------|------|---------------|----------------------|
| A1200 | Fairfax Water Review/Comment/Approve Final Water Relocation Plans | | | | | | \$ - | |
| A1370 | VDOT Appraisal Review | | | | | | \$ - | |
| A1150 | Submit Roadway Plans (Final Submission) | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1160 | VDOT Review/Approve Final Roadway Plans | | | | | | \$ - | |
| A1450 | Hold UFI Meetings | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1460 | Utility Design Relocations | | | | | | \$ 90,000.00 | \$ 90,000.00 |
| A1470 | Design Builder Approves P&E | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1480 | Submit P&E to VDOT | | | | | | \$ - | |
| A1490 | VDOT Approves P&E | | | | | | \$ - | |
| A1495 | Temporary Relocate Dominion Va Power/Cox/Shentel | | | | | | \$ 190,000.00 | \$ 190,000.00 |
| A1550 | Relocate Fiberlite | | | | | | \$ - | \$ - |
| A1530 | Relocate 24" Waterline | | | | 1600.00 | LF | \$ 393,000.00 | \$ 393,000.00 |
| A1535 | Temp Relocate 24" WL | | | | 1600.00 | LF | \$ 60,000.00 | \$ 60,000.00 |
| A1500 | Relocate Dominion Va Power | | | | | | \$ 580,000.00 | \$ 580,000.00 |
| A1560 | Relocate Verizon Poles | | | | | | \$ 450,000.00 | \$ 450,000.00 |
| A1532 | Install Sewer Conection to Salhiwaria Property | | | | 30.00 | LF | \$ 150,000.00 | \$ 150,000.00 |
| A1534 | Abandon Existing Drain Field | | | | | | \$ - | |
| A1510 | Relocate Cox | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A1520 | Relocate Shentel | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A1540 | Relocate 12" Waterline | | | | 1200.00 | LF | \$ 155,000.00 | \$ 155,000.00 |
| A1300 | Prepare and Submit VSMP Permit | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A1310 | Agency Review of VSMP | | | | | | \$ - | |
| A1320 | VSMP Permit Approved | | | | | | \$ - | |
| A1290 | JPA Approved | | | | | | \$ - | |
| A1410 | Access to Properties Obtained | | | | | | \$ - | |
| A1420 | Lien Releases/Settlements | | | | | | \$ - | |
| A1580 | Mobilization | | | | | | \$ 500,000.00 | \$ 500,000.00 |
| A3570 | Clear and Grub / Excavate and Silt Fence | | | | | | \$ 75,000.00 | \$ 75,000.00 |
| A1590 | Initial Survey and Layout | | | | | | \$ 75,000.00 | \$ 75,000.00 |
| A1600 | Install MOT Signs | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A1610 | Excavate for Temp Pavement in Median | F | 00120 | Regular Excavation | 5100.00 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A1620 | Place Stone for Temp Pavement in Median | F | 10121 | Aggr. Base Matl. Ty. I No. 21A or 21B | 450.00 | TON | \$ 50,000.00 | \$ 50,000.00 |
| A1630 | Place Temp Pavement in Median | F,P | 10642 | Asphalt Concrete Ty. Bm-25.0A | 650 | TON | \$ 70,000.00 | \$ 70,000.00 |
| A1640 | Restripe/Switch WB Traffic to Phase 1 Configuration | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 225 | TON | \$ 55,000.00 | \$ 55,000.00 |
| A2970 | Install Shoring | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A3030 | Install Shoring | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A3210 | Install Shoring | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A1650 | Restripe/Switch EB Traffic to Phase 1 Configuration | | | | | | \$ 55,000.00 | \$ 55,000.00 |
| A1660 | Intall Barrier/Attenuator for Phase 2 Configuration | | | | | | \$ 3,000.00 | \$ 3,000.00 |
| A1670 | Install Construction Entrances | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A1680 | Survey and Layout | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A2980 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |

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State Project 6007-053-S96
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| Activity ID ¹ | Item Description | Fuel (F) or Price (P) Adjustment | Item Number | Material Description | Quantity | Unit | Unit Price | Scheduled Value (\$) |
|--------------------------|--|----------------------------------|-------------|------------------------------------|----------|------|---------------|----------------------|
| A3040 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |
| A3220 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |
| A1690 | Install Erosion and Sediment Control Devices | F | 27430 | Siltation Control Excavation | 50.00 | CY | \$ 30,000.00 | \$ 30,000.00 |
| A1760 | Asphalt Demolition (Sta 107+50 - 117+25) | F | 24410 | Demolition of Pavement | 3957.50 | SY | \$ 43,000.00 | \$ 43,000.00 |
| A1700 | Install Tree Protection | | | | | | \$ 1,000.00 | \$ 1,000.00 |
| A2990 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3050 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3230 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A1710 | Clear and Grubbing | | | | | | \$ 75,000.00 | \$ 75,000.00 |
| A1770 | Break Up Concrete (Sta 107+50 - 117+25) | | | | | | \$ 40,000.00 | \$ 40,000.00 |
| A1720 | Install Sediment Basins | | | | | | \$ 8,000.00 | \$ 8,000.00 |
| A1730 | Install Ditches | | | | | | \$ 3,500.00 | \$ 3,500.00 |
| A1740 | Install Check Dams | | | | | | \$ 2,000.00 | \$ 2,000.00 |
| A3000 | F/R/P Abutment Wall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3060 | F/R/P Abutment Wall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3240 | F/R/P Column | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A1750 | Temporary Seed Sediment Basin and Ditches | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A1780 | Remove Guardrail | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A1930 | Install 36" from Rocky Run to Sta 106+25 | F | 24260 | Cr. Run Aggr. No. 25 or 26 | 100 | TON | \$ 85,000.00 | \$ 85,000.00 |
| A1790 | Remove Curb and Gutter | F | 14260 | Crusher Run Aggregate No. 25 or 26 | 100 | TON | \$ 1,500.00 | \$ 1,500.00 |
| A3010 | F/R/P Beam Seats and Backwall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3020 | Backfill Abut A | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A3070 | F/R/P Beam Seats and Backwall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3080 | Backfill Abut B | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A3250 | F/R/P Pier Cap | F | 60403 | Concrete Class A3 | 23.00 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3270 | Backfill Pier 1 | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A1800 | Remove Drainage Structures | | | | | | \$ 2,000.00 | \$ 2,000.00 |
| A1940 | Remove Headwall at Sta 106+25 | | | | | | \$ 7,500.00 | \$ 7,500.00 |
| A1810 | Fill Existing Pipe with Flowable Fill | | | | 267.50 | LF | \$ 10,000.00 | \$ 10,000.00 |
| A1950 | Install Storm Run at Sta 106+25 | F | 00505 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A3260 | F/R/P Beam Seats | F | 26271 | NS Dry Riprap | 41.69 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1820 | Strip Topsoil to Stockpile | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 50,000.00 | \$ 50,000.00 |
| A1960 | Install Storm Run from 106+25 to 105+00 | F | 506 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1830 | Strip Topsoil to Offsite Disposal | F | 26271 | NS Dry Riprap | 41.70 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1970 | Install Storm Run at Sta 107+75 | F | 507 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A3280 | Erect Box Beams | F | 26271 | NS Dry Riprap | 41.71 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1980 | Install Storm Run from Sta 107+50 to 108+00 | F | 508 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 150,000.00 | \$ 150,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.72 | TON | \$ 12,000.00 | \$ 12,000.00 |

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|--------------------------|---|----------------------------------|-------------|---------------------------------------|----------|------|---------------|----------------------|
| A1850 | Unsuitable Site Cut to Offsite | F | 00120 | Regular Excavation | 11484 | CY | | |
| A1860 | Provide and Place Offsite Borrow | F | 00270 | Select Material Ty. I Min. CBR-30 | 550 | TON | \$ 2,500.00 | \$ 2,500.00 |
| A1990 | Install Storm Run at Sta 109+50 | F | 509 | Borrow Excavation | 9076.50 | CY | \$ 30,000.00 | \$ 30,000.00 |
| A2000 | Install Storm Run at Sta 115+00 | F | 26271 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1890 | Install Storm Run at Sta 115+00 | F | 510 | NS Dry Riprap | 41.73 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1890 | Proof Roll and Rough Grade Subgrade and Undercutting (Sta 107+00 to Bridge) | F | 26271 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2010 | Install Storm Run from Sta 113+50 to 115+50 | F | 511 | NS Dry Riprap | 41.74 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A3290 | Install Deck Reinforcement | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A2020 | Install Storm Run from Sta 115+00 to 117+00 | F | 512 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1870 | Rough Grade Slopes | F | 26271 | NS Dry Riprap | 41.76 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2030 | Install Storm Run from 115+00 to 118+00 | F | 513 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 2,500.00 | \$ 2,500.00 |
| A3300 | Form Bulkheads | F | 26271 | NS Dry Riprap | 41.77 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A1900 | Fine Grade Subgrade (Sta 107+00 to Bridge) | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A1910 | Proof Roll and Rough Grade Subgrade and Undercutting Bridge to Sta 117+00) | | | | | | \$ 3,000.00 | \$ 3,000.00 |
| A3310 | Deck Concrete | F | 60404 | Concrete Class A4 | 383.50 | CY | \$ 25,000.00 | \$ 25,000.00 |
| A2040 | Clean and Flush Existing Storm | | | | | | \$ 90,000.00 | \$ 90,000.00 |
| A1880 | Temporary Seeding/Mulching Slopes | | | | | | \$ 3,000.00 | \$ 3,000.00 |
| A1920 | Fine Grade Subgrade Bridge to Sta 117+00) | | | | | | \$ 4,000.00 | \$ 4,000.00 |
| A3320 | Approach Slab | F | 60403 | Concrete Class A3 | 80.00 | CY | \$ 3,000.00 | \$ 3,000.00 |
| A3330 | Form and Pour Parapets | | | | | | \$ 20,000.00 | \$ 20,000.00 |
| A3340 | Form and Pour Raised Curb | F | 60404 | Concrete Class A4 | 31.00 | CY | \$ 22,000.00 | \$ 22,000.00 |
| A3350 | Install BR-27C Railing | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A3360 | Erect Pedestrian Fence | | | | | | \$ 32,000.00 | \$ 32,000.00 |
| A3370 | Groove Bridge Deck | | | | | | \$ 7,500.00 | \$ 7,500.00 |
| A2050 | Place Aggregate Base, Station 107+50 to Bridge | F | 10121 | Aggr. Base Matl. Ty. I no. 21A or 21B | 734.00 | SY | \$ 2,000.00 | \$ 2,000.00 |
| A3380 | VDOT Bridge Safety Inspection | | | | | | \$ 34,000.00 | \$ 34,000.00 |
| A2060 | Install Underdrain, Station 17+50 to Bridge | | | | | | \$ - | \$ - |
| A2100 | Place Aggregate Base, Bridge to Sta 117+25 | F | 10121 | Aggr. Base Matl. Ty. I no. 21A or 21B | 1433.50 | LF | \$ 20,000.00 | \$ 20,000.00 |
| A2070 | Install Curb Header (Median), Station 105+75 to Bridge | | | | | | \$ 34,000.00 | \$ 34,000.00 |
| A2110 | Install Underdrain, Bridge to Sta 117+25 | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2080 | Place Asphalt Base, Station 107+50 to Bridge | F,P | 10642 | Asphalt Concrete Ty. BM-25.0A | 1433.50 | LF | \$ 20,000.00 | \$ 20,000.00 |
| A2120 | Install Curb Header (Median), Bridge to Sta 117+25 | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2090 | Place IM Asphalt, Station 107+50 to Bridge | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 1848.00 | TON | \$ 75,000.00 | \$ 75,000.00 |
| A2130 | Place Asphalt Base, Bridge to Sta 117+25 | F,P | 10642 | Asphalt Concrete Ty. BM-25.0A | 1848.00 | TON | \$ 75,000.00 | \$ 75,000.00 |
| A2140 | Place IM Asphalt, Bridge to Sta 117+25 | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 1848.00 | TON | \$ 75,000.00 | \$ 75,000.00 |
| A2150 | Excavate Median for Temporary Pavement on Shoulder | F | 00120 | Regular Excavation | 509.54 | TON | \$ 35,000.00 | \$ 35,000.00 |
| A2160 | Place Stone for Temporary Pavement on Shoulder | F | 10121 | Aggr. Base Matl. Ty. I No. 21A or 21B | 2932.00 | CY | \$ 100,000.00 | \$ 100,000.00 |
| | | | | | 450.00 | TON | \$ 50,000.00 | \$ 50,000.00 |

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|--------------------------|---|----------------------------------|-------------|-----------------------------------|----------|------|---------------|----------------------|
| A2170 | Place Temporary Pavement on Shoulder | F,P | 10642 | Asphalt Concrete Ty. Bm-25.0A | 650 | TON | | |
| | | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 225 | TON | | |
| A2180 | Install Barrier / Attenuator for Phase 2 | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2190 | Restripe/Switch EB Traffic to Phase 2 Configuration | | | | | | \$ 4,000.00 | \$ 4,000.00 |
| A2200 | Restripe/Switch WB Traffic to Phase 2 Configuration | | | | | | \$ 4,000.00 | \$ 4,000.00 |
| A2220 | Survey and Layout | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A2230 | Install Erosion and Sediment Control Devices | F | 27430 | Siltation Control Excavation | 50.00 | CY | \$ 30,000.00 | \$ 30,000.00 |
| A2210 | Install Construction Entrances | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2240 | Install Tree Protection | | | | | | \$ 1,000.00 | \$ 1,000.00 |
| A2290 | Channelize Stream | | | | | | \$ 2,000.00 | \$ 2,000.00 |
| A2300 | Demo Existing Bridge Deck | | | | | | \$ 50,000.00 | \$ 50,000.00 |
| A2320 | Asphalt Demolition (Sta107+50 to 117+50) | F | 24410 | Demolition of Pavement | 3957.50 | SY | \$ 43,000.00 | \$ 43,000.00 |
| A3580 | Clear and Grub / Excavate and Silt Fence | | | | | | \$ 75,000.00 | \$ 75,000.00 |
| A2250 | Clear and Grubbing | | | | | | \$ 75,000.00 | \$ 75,000.00 |
| A2260 | Install Ditches | | | | | | \$ 4,500.00 | \$ 4,500.00 |
| A2270 | Install Check Dams | | | | | | \$ 2,000.00 | \$ 2,000.00 |
| A2280 | Temporary Seed Sediment Basin and Ditches | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2310 | Demo Existing Bridge Abutments | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A2380 | Strip Topsoil to Stockpile | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A2330 | Break Up Concrete (Sta107+50 to 117+50) | | | | | | \$ 40,000.00 | \$ 40,000.00 |
| A2340 | Remove Guardrail | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2390 | Strip Topsoil to Offsite Disposal | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A2350 | Remove Curb and Gutter | | | | | | \$ 1,500.00 | \$ 1,500.00 |
| A3100 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |
| A3160 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |
| A3400 | Excavate Footing | F | 64011 | Structure Excavation | 666.67 | CY | \$ 40,000.00 | \$ 40,000.00 |
| A2360 | Remove Drainage Structures | | | | | | \$ 2,000.00 | \$ 2,000.00 |
| A2410 | Unsuitable Site Cut to Offsite | F | 00120 | Regular Excavation | 11484 | CY | | |
| | | F | 00270 | Select Material Ty. I Min. CBR-30 | 550 | TON | \$ 2,500.00 | \$ 2,500.00 |
| A3110 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3170 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3410 | F/R/P Footing | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A2420 | Provide and Place Offsite Borrow | F | 00140 | Borrow Excavation | 9076.50 | CY | \$ 30,000.00 | \$ 30,000.00 |
| A3120 | F/R/P Abutment Wall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3180 | F/R/P Abutment Wall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A3420 | F/R/P Column | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 125,000.00 | \$ 125,000.00 |
| A2370 | Fill Existing Concrete Pipe with Flowable Fill | | | | 267.50 | LF | \$ 10,000.00 | \$ 10,000.00 |
| A2430 | Rough Grade Slopes | | | | | | \$ 2,500.00 | \$ 2,500.00 |
| A2450 | Proof Roll and Rough Grade Subgrade and Undercutting (Sta 107+00 to Bridge) | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A3130 | F/R/P Beam Seats and Backwall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3140 | Backfill Abut A | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A3190 | F/R/P Beam Seats and Backwall | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3200 | Backfill Abut B | | | | | | \$ 10,000.00 | \$ 10,000.00 |

Attachment 4.4.6
State Project 6007-053-S96
SCHEDULE OF VALUES

This schedule of values shall identify the material quantities and costs of each proposed work package, using the WBS established in the Proposal Schedule submitted by the Offeror. The material quantities and costs listed for each proposed work package shall, to the extent possible, correspond to VDOT's list of standard and non-standard pay items. Any items considered for price adjustments shall be identified. The value associated with each work task shall be inclusive of all direct and indirect costs, overhead, profit and any other expenses of any kind. The values and quantities shall be clearly supported by the escrowed pricing documents.

| Activity ID ¹ | Item Description | Fuel (F) or Price (P) Adjustment | Item Number | Material Description | Quantity | Unit | Unit Price | Scheduled Value (\$) |
|--------------------------|--|----------------------------------|-------------|---------------------------------------|----------|------|---------------|----------------------|
| A3430 | F/R/P Pier Cap | F | 60403 | Concrete Class A3 | 23.00 | CY | \$ 100,000.00 | \$ 100,000.00 |
| A3450 | Backfill Pier 1 | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2440 | Temporary Seeding/Mulching Slopes | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2490 | Install Storm Run at Sta 107+75 | F | 515 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.79 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2470 | Proof Roll and Rough Grade Subgrade and Undercutting Bridge to Sta 117+00) | | | | | | \$ 25,000.00 | \$ 25,000.00 |
| A3440 | F/R/P Beam Seats | F | 60403 | Concrete Class A3 | 89.22 | CY | \$ 50,000.00 | \$ 50,000.00 |
| A2500 | Install Storm Run at Sta 109+75 | F | 516 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.80 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2510 | Install Storm Run for Sta 110+00 to 111+00 | F | 517 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.81 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2520 | Install Storm Run from Sta 113+50 to 115+00 | F | 518 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.82 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A3460 | Erect Box Beams | | | | 30.00 | EA | \$ 150,000.00 | \$ 150,000.00 |
| A2560 | Clean and Flush Existing Storm | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A2530 | Install Storm Run at Sta 115+00 | F | 519 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.83 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2540 | Install Storm Run at Sta 116+75 | F | 520 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.84 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A2550 | Install Storm Run from Sta 117+00 to 121+25 | F | 521 | Bedding Matl. Aggr. No. 25 or 26 | 79.38 | TON | \$ 12,000.00 | \$ 12,000.00 |
| | | F | 26271 | NS Dry Riprap | 41.85 | TON | \$ 12,000.00 | \$ 12,000.00 |
| A3470 | Install Deck Reinforcement | | | | | | \$ 275,000.00 | \$ 275,000.00 |
| A3480 | Form Bulkheads | | | | | | \$ 10,000.00 | \$ 10,000.00 |
| A3490 | Deck Concrete | F | 60404 | Concrete Class A4 | 383.50 | CY | \$ 90,000.00 | \$ 90,000.00 |
| A3500 | Approach Slab | F | 60403 | Concrete Class A3 | 80.00 | CY | \$ 20,000.00 | \$ 20,000.00 |
| A3510 | Form and Pour Parapets | | | | 330.00 | LF | \$ 22,000.00 | \$ 22,000.00 |
| A2460 | Fine Grade Subgrade (Sta 107+00 to Bridge) | | | | | | \$ 4,500.00 | \$ 4,500.00 |
| A3520 | Form and Pour Raised Curb | F | 60404 | Concrete Class A4 | 31.00 | CY | \$ 10,000.00 | \$ 10,000.00 |
| A2480 | Fine Grade Subgrade Bridge to Sta 117+00) | | | | | | \$ 4,000.00 | \$ 4,000.00 |
| A3530 | Install BR-27C Railing | | | | 330.00 | LF | \$ 32,000.00 | \$ 32,000.00 |
| A2570 | Place Aggregate Base | F | 10121 | Aggr. Base Matl. Ty. I no. 21A or 21B | 1222.00 | TON | \$ 34,000.00 | \$ 34,000.00 |
| A3540 | Erect Pedestrian Fence | | | | | | \$ 7,500.00 | \$ 7,500.00 |
| A2580 | Install Underdrain | | | | 1433.50 | LF | \$ 20,000.00 | \$ 20,000.00 |
| A2640 | Pave Asphalt Base | F,P | 10642 | Asphalt Concrete Ty. BM-25.0A | 1848.00 | TON | \$ 75,000.00 | \$ 75,000.00 |
| A3550 | Groove Bridge Deck | | | | 734.00 | SY | \$ 2,000.00 | \$ 2,000.00 |
| A2650 | Place IM Asphalt | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 509.54 | TON | \$ 35,000.00 | \$ 35,000.00 |
| A2590 | Install Header Curb (median) | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A3560 | VDOT Bridge Safety Inspection | | | | | | \$ - | \$ - |
| A2600 | Install Curb and Gutter / Construction Entrances | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2610 | Install New Sidewalk / Handicap Ramps | F,P | 10635 | Asphalt Concrete Ty. SM 9.5A | 44 | TON | \$ 10,000.00 | \$ 10,000.00 |
| | | F | 10121 | Aggr. Base Matl. Ty. I no. 21A or 21B | 147.5 | TON | \$ 10,000.00 | \$ 10,000.00 |
| A2620 | Backfill Curb and Sidewalk / Slope | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2680 | Place Aggregate Base | F | 10121 | Aggr. Base Matl. Ty. I no. 21A or 21B | 1222.00 | TON | \$ 34,000.00 | \$ 34,000.00 |

Attachment 4.4.6
State Project 6007-053-S96
SCHEDULE OF VALUES

This schedule of values shall identify the material quantities and costs of each proposed work package, using the WBS established in the Proposal Schedule submitted by the Offeror. The material quantities and costs listed for each proposed work package shall, to the extent possible, correspond to VDOT's list of standard and non-standard pay items. Any items considered for price adjustments shall be identified. The value associated with each work task shall be inclusive of all direct and indirect costs, overhead, profit and any other expenses of any kind. The values and quantities shall be clearly supported by the escrowed pricing documents.

| Activity ID ¹ | Item Description | Fuel (F) or Price (P) Adjustment | Item Number | Material Description | Quantity | Unit | Unit Price | Scheduled Value (\$) |
|--------------------------|--|----------------------------------|----------------|---|-----------------|------------|--------------|----------------------|
| A2630 | Permanent Seed and Mulch | | | | | | \$ 14,000.00 | \$ 14,000.00 |
| A2690 | Install Underdrain | | | | 1433.50 | LF | \$ 20,000.00 | \$ 20,000.00 |
| A2700 | Install Header Curb (median) | | | | | | \$ 20,000.00 | \$ 20,000.00 |
| A2790 | Remove Barrier / Attenuator from Phase 2 | | | | | | \$ 4,500.00 | \$ 4,500.00 |
| A2800 | Restripe Tapers / Switch WB Traffic to Final Configuration | | | | | | \$ 4,000.00 | \$ 4,000.00 |
| A2810 | Restripe / Switch EB Traffic to Final Configuration | | | | | | \$ 78,000.00 | \$ 78,000.00 |
| A2710 | Install Curb and Gutter / Construction Entrances | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2820 | Install Construction Entrances | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2830 | Survey and Layout | | | | | | \$ 45,000.00 | \$ 45,000.00 |
| A2840 | Remove Temporary Pavement along Shoulder, 103+00 to Bridge | | | | | | \$ 12,250.00 | \$ 12,250.00 |
| A2720 | Install New Sidewalk / Handicap Ramps | F,P F | 10635 10121 | Asphalt Concrete Ty. SM 9.5A Aggr. Base Matl. Ty. I no. 21A or 21B | 44 147.5 | TON TON | \$ 10,000.00 | \$ 10,000.00 |
| A2850 | Install Curb and Gutter / Remove Const Entrances, 103+00 to Bridge | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2730 | Backfill Curb and Sidewalk / Slope | | | | | | \$ 5,000.00 | \$ 5,000.00 |
| A2860 | Install New Sidewalk / Handicap Ramps 103+00 to Bridge | F,P F | 10635 10121 | Asphalt Concrete Ty. SM 9.5A Aggr. Base Matl. Ty. I no. 21A or 21B | 44 147.5 | TON TON | \$ 10,000.00 | \$ 10,000.00 |
| A2740 | Permanent Seed and Mulch | | | | | | \$ 14,000.00 | \$ 14,000.00 |
| A2870 | Backfill Curb and Sidewalk / Slope Grading, 103+00 to Bridge | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A2890 | Remove Temporary Pavement along Shoulder, 119+00 to Bridge | | | | | | \$ 12,250.00 | \$ 12,250.00 |
| A2750 | Pave Asphalt Base | F,P | 10642 | Asphalt Concrete Ty. BM-25.0A | 1848.00 | TON | \$ 75,000.00 | \$ 75,000.00 |
| A2880 | Perminant Seed and Mulch, 103+00 to Bridge | | | | | | \$ 20,000.00 | \$ 20,000.00 |
| A2900 | Install Curb and Gutter / Remove Const Entrances, 119+00 to Bridge | | | | | | \$ 6,000.00 | \$ 6,000.00 |
| A2760 | Place IM Asphalt | F,P | 10610 | Asphalt Concrete Ty. IM-19.0A | 509.54 | TON | \$ 35,000.00 | \$ 35,000.00 |
| A2910 | Install New Sidewalk / Handicap Ramps 119+00 to Bridge | F,P F | 10635 10121 | Asphalt Concrete Ty. SM 9.5A Aggr. Base Matl. Ty. I no. 21A or 21B | 44 147.5 | TON TON | \$ 10,000.00 | \$ 10,000.00 |
| A2920 | Backfill Curb and Sidewalk / Slope Grading, 119+00 to Bridge | | | | | | \$ 15,000.00 | \$ 15,000.00 |
| A2930 | Perminant Seed and Mulch, 119+00 to Bridge | | | | | | \$ 20,000.00 | \$ 20,000.00 |
| A2940 | Place Surface Asphalt | F,P F | 10636 8505 | Asphalt Concrete Ty. SM 9.5D NS Flexible Pavement Planing | 1785.85 8505 | TON SY | \$ 73,000.00 | \$ 73,000.00 |
| A2950 | Permanent Signs and Striping | | | | | | \$ 70,000.00 | \$ 70,000.00 |
| A3640 | Punchlist | | | | | | \$ 59,350.00 | \$ 59,350.00 |
| A1020 | Substantial Completion | | | | | | \$ - | \$ - |
| A1030 | Final Completion | | | | | | \$ - | \$ - |

\$ 11,433,000.00

Route 29 Bridge over Little Rocky Run
 Contract ID: 00077322DB52

Monthly Payment Schedule

| Month | Projected Monthly Total | Projected Cumulative Total |
|--------|-------------------------|----------------------------|
| Jun-13 | \$905,000 | \$905,000 |
| Jul-13 | \$315,000 | \$1,220,000 |
| Aug-13 | \$250,000 | \$1,470,000 |
| Sep-13 | \$175,000 | \$1,645,000 |
| Oct-13 | \$180,000 | \$1,825,000 |
| Nov-13 | \$150,000 | \$1,975,000 |
| Dec-13 | \$125,000 | \$2,100,000 |
| Jan-14 | \$250,000 | \$2,350,000 |
| Feb-14 | \$950,000 | \$3,300,000 |
| Mar-14 | \$898,000 | \$4,198,000 |
| Apr-14 | \$1,014,000 | \$5,212,000 |
| May-14 | \$941,000 | \$6,153,000 |
| Jun-14 | \$522,000 | \$6,675,000 |
| Jul-14 | \$441,000 | \$7,116,000 |
| Aug-14 | \$314,000 | \$7,430,000 |
| Sep-14 | \$284,000 | \$7,714,000 |
| Oct-14 | \$332,000 | \$8,046,000 |
| Nov-14 | \$289,000 | \$8,335,000 |
| Dec-14 | \$308,000 | \$8,643,000 |
| Jan-15 | \$993,000 | \$9,636,000 |
| Feb-15 | \$640,000 | \$10,276,000 |
| Mar-15 | \$186,000 | \$10,462,000 |
| Apr-15 | \$149,000 | \$10,611,000 |
| May-15 | \$133,000 | \$10,744,000 |
| Jun-15 | \$145,000 | \$10,889,000 |
| Jul-15 | \$152,000 | \$11,041,000 |
| Aug-15 | \$392,000 | \$11,433,000 |
| Sep-15 | \$0 | \$11,433,000 |
| Oct-15 | \$0 | \$11,433,000 |

4.4 POST NOTICE OF INTENT TO AWARD SUBMITTAL

4.4.8 ESCROW PROPOSAL DOCUMENT

Please see document under separate cover.