



**Overview of Contract (RFP) Documents
Route 29 / Charlottesville Bypass Project
Design-Build, Albemarle County**

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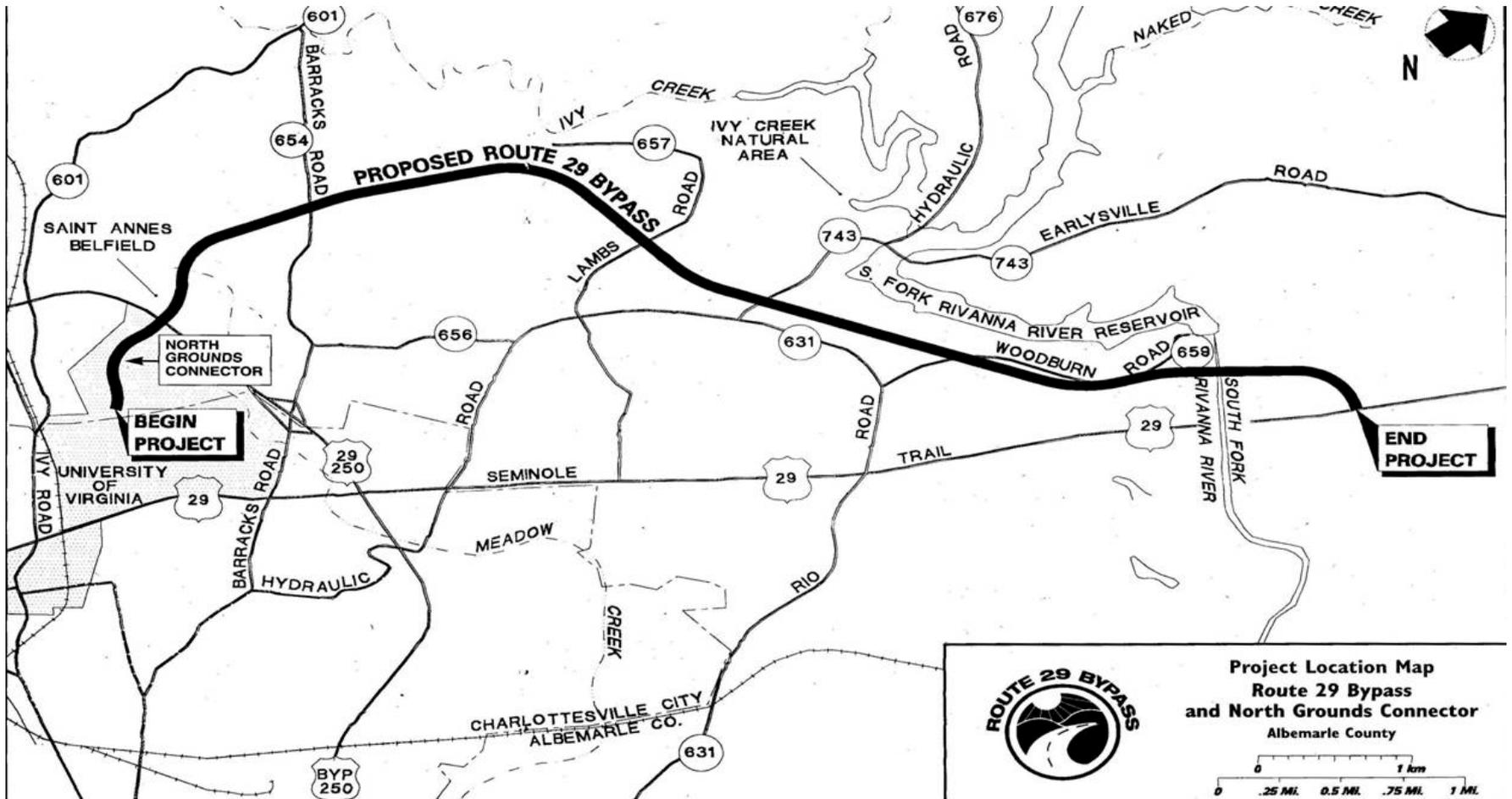
Project Background / Overview

- Project location originally developed in late 1980's
- Location was adopted by Commonwealth Transportation Board in 1990
- 6.2 mile, 4-lane divided, limited access highway; original survey & design plans were metric
- New highway will bypass 13 existing traffic signals along Route 29 Business in Charlottesville & Albemarle Co.
- Design PH in 1997, traffic forecast was 24,400 VPD

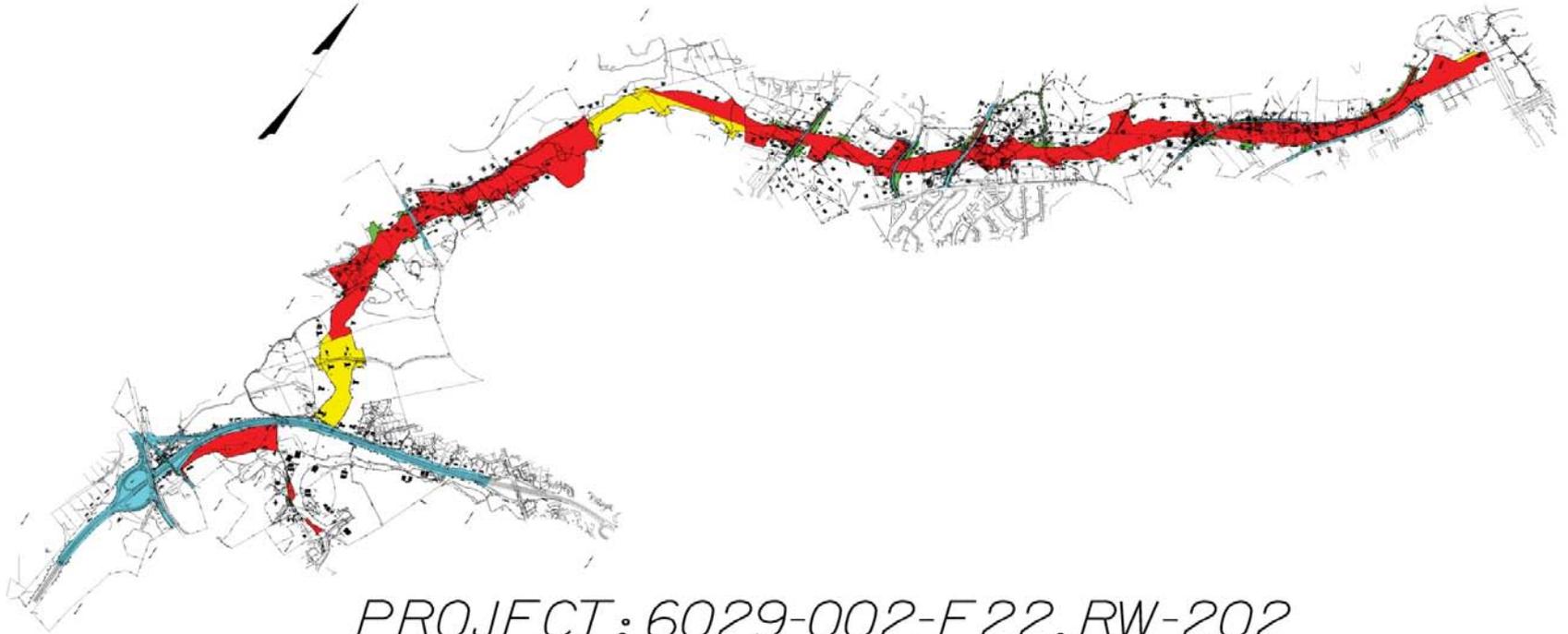
Project Background / Overview

- Lawsuit filed in 1998 alleging violations of NEPA
- Final Supplemental EIS approved in May 2003, ROD issued Sept.23, 2003
- North Grounds Connector was built in 2006, known as Leonard Sandridge Road
- Project has received mixed support from elements of the community over the years
- Public Involvement *critical* to the success of this project

Project Location Map



Project RW Status



- 83 parcels purchased by VDOT (only 1 north of SF Rivanna River)
- 36 properties being leased
- 3 family cemeteries – VDOT to relocate if needed

Project Environmental Status



- Project may **NOT** exceed approved environmental footprint
- NEPA is complete, reevaluation process through Sep. 2012 (est.)
- Estimated traffic is provided; updated traffic with reevaluation
- Additional studies included (air, noise, cultural resources, etc.)
- Public meeting anticipated 2nd Qtr CY12

Part 2 - Technical Information

- Scope of Work (Section 1.0)
- Standards and Reference Documents (Section 2.1)
- Status of Project Design Development (Section 2.2)
- CTB Resolutions (Section 2.3)
- Environmental (Section 2.4)
- Roadway (Section 2.5)
- Structures (Section 2.6)
- Survey (Section 2.7)
- Geotechnical Work (Section 2.8)
- Hydraulics (Section 2.9)
- Traffic Control Devices (Section 2.10)

Part 2, Technical Information, continued

- Transportation Management Plan (Section 2.11)
- Intelligent Transportation System (Section 2.12)
- Right-of-Way (Section 2.13)
- Railroads (Section 2.14)
- Landscaping (Section 2.15)
- Utilities (Section 2.16)
- QA/QC (Section 2.17)
- Plan Preparation (Section 2.18)
- Public Involvement Strategy (Section 2.19)
- Monthly Progress Meetings (Section 2.20)
- Virginia Occupational Safety & Health (Section 2.21)

Design-Builder's Scope of Work (Part 2, Section 1.0)

- Survey and Design services
- Traffic studies
- Environmental services, permitting
- Geotechnical engineering
- Utility and Right of Way services
- Construction services

Status of Project Design Development (Part 2, Section 2.2)

- This section provided *For Information Only*
- Previous plans for Bypass by Parsons Brinckerhoff, dated September 9, 1997
- Previous survey & plans were in metric units
- Meadowcreek Parkway originally planned to tie at northern terminus on east side of Rte. 29, no longer in plan
- Leonard Sandridge Road plans by Parsons Brinckerhoff, dated October 2003 – not as-built mapping

Commonwealth Transportation Board (CTB) Resolutions (Part 2, Section 2.3)

- Eight CTB resolutions associated with project from 1987 to 1998
- Three are most applicable to the design today and represent commitments to be addressed:
 - CTB Resolution dated March 16, 1995
 - CTB Resolution dated April 17, 1997
 - CTB Resolution dated January 15, 1998

Environmental (Part 2, Section 2.4)

- Status of NEPA
- Environmental commitments, mitigation measures
 - Extensive SWM to protect reservoir
 - Section 4(f) resource mitigation measures
- Environmental work to validate NEPA
- Allowable activities during reevaluation (NTP#1)
- Hazardous materials
- Noise mitigation (construction & permanent)
- Design changes may require add'l studies, coordination

Roadway (Part 2, Section 2.5)

- Route 29 Bypass mainline Standard GS-5, 60 mph design speed, rolling terrain
- Five road crossings (Barracks Road, Lambs Road, Roslyn Ridge Road, Earlysville Road, Woodburn Road)
- Barracks Road is only crossing where the 29 Bypass is to cross over the existing roadway
- See Table 2, page 34 for Geometric Standards
- Maximum profile grade of 4.5% through Stillhouse

Roadway (Part 2, Section 2.5), continued

- Pedestrians and bicyclists prohibited from using the new limited access Rte. 29 Bypass
- See Table 1, pg. 33 for bike/pedestrian accommodations on other roadways
- AASHTO WB-67 minimum design vehicle
- Termini design criteria

Structures

(Part 2, Section 2.6)

- AASHTO's LRFD Bridge Design Specifications
- Neither steel box (tub) girders nor 100 ksi HPS allowed
- CRR steel reinforcing, low permeability concrete
- Design Criteria Summary:
 - 16'-6" Minimum Vertical Clearance
 - Aesthetic items, architectural surface treatments
- Structure Load Ratings
- FHWA Bridge Construction Unit Cost Report

Survey (Part 2, Section 2.7)

- Old metric survey provided FYI (supplemental information package)
- 2009 imagery provided with approved footprint
- VDOT acquiring updated base map in spring to be provided at award
- DB to Validate and Augment Data/Survey Provided
- Update Property Owner Information as needed
- Advance notification of Property Owners is required for data collection purposes (Virginia Code §33.1-94)
- DB to perform R/W monumentation (RM-2)

Geotechnical (Part 2, Section 2.8)

- Subsurface Investigation reports (1998 & 1999) & boring logs available (RFP Information Package)
- Geotechnical Engineering Data Report underway, expected in addendum next month
- Validate and Augment Data/Design Provided
- Minimum Pavement Sections and Pavement Condition Documentation
- Geotechnical Engineering Considerations during Design and Construction – rock excavation

Hydraulics

(Part 2, Section 2.9)

- Hydrologic & Hydraulic Analysis
- Drainage Design
 - Culverts, open channels, storm sewers, bridge drainage, adequate outfall analysis, etc.
 - Underdrains
 - SWPPP and SWM Plans
 - Erosion & Sediment Control
 - Stormwater Management Facilities – ingress/egress
- VSMP Permit is required

Transportation Management Plan (TMP) (Part 2, Section 2.11)

- Type B, Category IV Project
- Temporary traffic control plans
 - Lane closures, time restrictions
- Traffic Operations Strategies
- Incident Management
- Coordination with Police (local & Virginia State Police), Staunton TOC, stakeholders, VDOT District Maintenance
- Public Involvement

Public Involvement (Part 2, Section 2.11.4)

- Community Relations/Stakeholder Coordination Plan
- During Design & Construction Phases:
 - Informal Meetings
 - Information suitable for posting on VDOT's Website
- During Construction:
 - Liaison between VDOT, Albemarle County/City of Charlottesville, and Construction Manager
 - Emergency contacts and response

Right of Way (Part 2, Section 2.13)

- Right of Way Acquisition
 - Appraisals & Review Appraisals
 - Negotiation
 - Relocation Assistance
 - Title Examinations
 - Closings
- Cemetery relocation by VDOT

Railroad

(Part 2, Section 2.14)

- CSX railroad over Rte. 29/250 Bypass
 - Alternative design at southern interchange to avoid modifications to & replacement of RR bridge
 - Refer to Section 2.6.5
 - Costs to replace bridge (if needed) in proposal

Utilities

(Part 2, Section 2.16)

- Coordination and Cost Determinations
- Existing utilities:
 - Sanitary Sewer
 - Water
 - Gas
 - Electric
 - CATV
 - Telephone
 - Other potential unidentified utilities

Quality Assurance/Quality Control (Part 2, Section 2.17)

- QA/QC Plans for both Design and Construction
- *VDOT Minimum Quality Control & Quality Assurance Requirements for Design Build and Public-Private Transportation Act Projects*
- VDOT to Review Submitted Plans in 21 Days
- Written Approval of Modifications to be attached to Plans Submitted
- Construction Plans to be approved by Chief Engineer

Quality Assurance/Quality Control (Part 2, Section 2.17), continued

- Offeror has total QA/QC Responsibility
- Independent Firm to perform Sampling and Testing of Materials
- Offeror's QAM report directly to DB Project Manager
- Detailed Recordkeeping – A Must!

Other Technical Requirements

- Plan Preparation (Section 2.18.1 – 2.18.3)
 - GEOPAK and MicroStation
 - Software Licenses
 - Drafting Standards
- Plan Submittals (Sections 2.18.4 – 2.18.7)
 - Electronic Files
 - Bridge Plans
 - Construction Plans
 - Submittals to VDOT & FHWA
- Virginia Occupational Safety and Health Standards
- Public Involvement Strategy

VDOT Point of Contact

Jeffrey A. Roby, P.E.

Alternate Project Delivery Office
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Contract Documents

Five Parts:

- Part 1 – Instructions for Offerors
- Part 2 – Technical Information & Requirements
- Part 3 – Lump Sum Agreement
 - Exhibit 1 to Part 3 (Project Specific Terms)
- Part 4 – General Terms & Conditions
- Part 5 – Division I Amendments

RFP Information Package

Parts 3, 4 and 5 (version May 2010) available for download from VDOT's Design-Build website at:

<http://www.virginiadot.org/business/design-build.asp>

Part 1 – Instructions to Offerors

Background Information

(Section 2.0)

- Project Description
- Procurement – single phase, two step selection
 - Step 1 Qualifications Submittal - pass/fail
 - Step 2 Proposal Submittal (including price) - pass/fail
 - Award to Offeror who provides a responsive Proposal and has the lowest price.
- Right of Way and Utilities
- VDOT has allocated a budget of \$244.5 Million

Part 1, continued

Procurement Schedule (Section 2.6)

RFP Step 1 Questions Due to VDOT	10/21/11
VDOT Responses to Step 1 Questions	11/04/11
VDOT Issue Addendum #1	11/08/11
Qualification Submittal Due Date	11/29/11
Notification to Responsive Offerors	12/13/11
RFP Step 2 Questions Due to VDOT	01/06/12
VDOT Responses to Step 2 Questions	01/27/12
Proprietary Meetings	week of 02/06/12
VDOT Issue Addendum #2 (if necessary)	TBD
Proposal Due Date	04/17/12
Open Price Proposals	05/08/12
Notice of Intent to Award	05/14/12
Post Notice of Intent to Award Submittal Due Date	05/17/12

Part 1, continued

Procurement Schedule (Section 2.6)

CTB Award		06/20/12
Contract Execution		07/18/12
Notice to Proceed #1		07/20/12
Notice to Proceed #2	(estimated)	09/28/12
Substantial Completion		04/15/16*
Final Completion		07/15/16*

***Offeror's proposed early completion date(s) becomes the contractual completion date(s).**

Part 1, continued

Procurement Schedule (Section 2.6)

- Notice to Proceed #1
 - Preliminary Design Activities only
 - ROW purchase prohibited
 - Utility relocation prohibited
- Notice to Proceed #2
 - Final Design Activities
 - Issued once NEPA related work is completed
 - Commence Work on Final Design
 - ROW purchase, utility relocation and construction

Under no circumstances shall the Design-Builder commence Work on Final Design until VDOT issues NTP #2

RFP DOCUMENTS

Deviations from the RFP Documents (Section 2.10)

- Obligated to meet all RFP requirements
- No modifications of the RFP requirements unless set forth in an Addendum.

License and Registration Details (Section 2.11)

- At time of submittal must be properly registered
- Failure to comply with the provisions of these requirements may render the Qualification Submittal non-responsive

RFP revision and/or addenda Sheet (C-78) (Section 3.5)

Contents of Qualifications Submittal

- Letter of Submittal #1 (Section. 4.2)
- Attachments to the letter of Submittal #1 (Section 4.3)
 - Exhibits 1 thru 7
- Letter of Submittal #1 Checklist (Attachment 4.1.2)

One copy due on November 29, 2011

LETTER OF SUBMITTAL #1

The following must be submitted on the Offeror's letterhead

1. Official representative & point of contact and name of the principal officer executing the Contract
2. Offerors' legal structure
3. Statement for achieving 11% DBE participation goal
4. Authorized representative's signature

ATTACHMENTS TO THE LETTER OF SUBMITTAL #1

Exhibit No. 1 (Section 4.3.1.1)

- VDOT Prequalification letter

Exhibit No. 2 (Section 4.3.1.2)

- SCC Registration
- DPOR Registration details for the offices practicing or offering to practice professional services

Exhibit No. 3 (Section 4.3.1.3)

- Names and detailed addresses of all affiliated and/or subsidiary companies

Exhibit No. 4 (Section 4.3.1.4)

- Debarment certification for Prime and lower tier subs (Attachment 4.3.1.4 (a) & (b))

ATTACHMENT TO THE LETTER OF SUBMITTAL #1 (cont.)

Exhibit No. 5

(Section 4.3.1.5)

- Lead Contractor Work History Form (Attachment 4.3.1.5(a))
- Three (3) highway construction projects on Primary or Interstate Highways with a minimum contract value of \$50M completed within the last fifteen (15) years. The projects shall include:
 1. At least one (1) with a minimum of \$15M for roadway work that includes:
 - a. Rock excavation by blasting or mechanical means
 - b. Major grading on new alignment
 2. A least one (1) with major bridge structures with a minimum of \$15M for bridge work.
 3. A least one (1) with interchange on a limited access highway.

ATTACHMENT TO THE LETTER OF SUBMITTAL #1 (cont.)

- Lead Designer Work History Form (Attachment 4.3.1.5(b))
- Three (3) highway construction projects on Primary or Interstate Highways with a minimum contract value of \$50M completed within the last fifteen (15) years. The projects shall include:
 1. At least two (2) interchange design projects on limited access highways with a minimum construction value of \$15M each for roadway work.
 2. A least one (1) with major bridge structures with a minimum construction value of \$15M for bridge work.
 3. A least one with interchange on a limited access highway.

ATTACHMENTS TO THE LETTER OF SUBMITTAL #1 (cont.)

Exhibit No. 6

(Section 4.3.1.6)

- Key Personnel
 - (a) Design-Build Project Manager *
 - (b) Quality Assurance Manager *
 - (c) Design Manager
 - (d) Construction Manager *
 - (e) Lead Structural Engineer
 - (f) Lead Roadway Engineer
 - (g) Lead Geotechnical Engineer
 - (h) Lead Utility Engineer
 - (i) Lead Safety Engineer *
 - (j) Environmental Compliance Manager *
 - (k) Right of Way Manager
 - (l) Public Relations Manager

* Assigned to the Project full time and required to be onsite for the duration of the Project once construction activities commence

ATTACHMENTS TO THE LETTER OF SUBMITTAL #1 (cont.)

- Key Personnel Resume Form (Attachment 4.3.1.6)
- DPOR registration
- Office location where each Key Personnel is offering to practice professional services in Virginia

Exhibit No. 7

(Section 4.3.1.7)

- Organizational chart
 - Key Personnel identified
 - Major Functions to be performed
 - Reporting relationships in managing, designing and constructing the Project
 - Subconsultants and major subcontractor
 - Reporting relationships of the proposed QA/QC program

CONTENTS OF PROPOSAL SUBMITTAL

- Letter of Submittal #2 (Section. 4.4)
- Attachments to the letter of Submittal #2 (Section 4.5)
 - Exhibits 1 thru 5
- Letter of Submittal #2 Checklist (Attachment 4.1.3)

LETTER OF SUBMITTAL #2

The following must be submitted on the Offeror's letterhead

1. Organizational changes since qualifications submittal
 - Must be approved in advance (Addendum No. 1)
2. Declaration of the proposal validity for 120 days after "Proposal Due Date"
3. Authorized representative's signature
4. Principal Officer of the entity whom contract w/VDOT is written
5. Certify Offeror's proposed project concept is fully compliant with the design requirements of the RFP
6. Substantial and Final Completion Date
 - If an Offeror proposes Substantial and Final Completion date(s) earlier than those shown in Section 2.6.1, then such proposed dates will be deemed by VDOT as the contractual completion date(s)

ATTACHMENTS TO THE LETTER OF SUBMITTAL #2

Exhibit No. 1 (Section 4.5.1.1)

- Conceptual Roadway Plans
- Include all information on the Roadway Conceptual Design Checklist (Attachment 4.5.1.1)

Exhibit No. 2 (Section 4.5.1.2)

- Conceptual Bridge Plans
- Include all information on the Bridge Conceptual Design Checklist (Attachment 4.5.1.2)

Exhibit No. 3 (Section 4.5.1.3)

- Proposal Schedule

Exhibit No. 4 (Section 4.5.1.4)

- Schedule of Values

Exhibit No. 5 (Section 4.5.1.5)

- Monthly Payment Schedule

PRICE PROPOSAL (SECTION 4.6)

- Price Proposal Checklist (Attachment 4.6.1)
- Lump Sum Amount (Attachment 4.6.2)
- Proposal Guaranty (Part 5-102.07)
 - Must have C-24 or Offeror shall be deemed Non-Responsive
 - (available on VDOT web page: <http://vdotforms.vdot.virginia.gov/>)
- Sworn Statement Forms (C-104, C-105), as set forth in Attachments 4.4.4(a) and 4.4.4(b), respectively.
- Adjustments to Asphalt, Fuel and Steel Prices

PRICE PROPOSAL (cont.)

- Offeror shall provide the Minimum DBE Requirements Form (C-111; Attachment 4.4.6(a)),
- DBE Good Faith Effort Documentation Form (C-49; Attachment 4.4.6(b)), if applicable (including Good Faith Effort supporting documentation)
- Certification of Binding Agreement Form (C-112; Attachment 4.4.6(c)).

POST NOTICE OF INTENT TO AWARD SUBMITTAL (Section 4.7)

Within three (3) days of Notice of Intent to Award, the Successful Offeror shall deliver to VDOT:

Escrow Proposal Documents in accordance with Section 11.6.1.

Part 1, continued

Other Considerations

- RFP Review Period (Section 2.9.2)
- Questions and Clarifications (Section 7.0)
 - Must be in Electronic Format to POC and received by 4:00 PM on the due dates in Section 2.6.1 to be considered
- Three Trainee/Apprentice is Required (Section 11.5)

Part 1, continued

Other Considerations

- Conflict of Interest (Sect. 11.2)
 - PB Americas
 - Stratacomm
 - Alpha Corporation.
 - ECS Group of Companies
- **To be added in Addendum No. 1**
 - Parson's Transportation Group
 - McCormick, Taylor
 - Coastal Carolina Research Incorporated

Part 3 – Lump Sum Agreement

- Exhibit 1 to Part 3 – Project Specific Terms
- Contract Time (Article 5)
- Liquidated Damages (Article 5.6)
- No Early Completion Bonus (Article 5.8)
- Price and Adjustments (Article 6)
 - Asphalt, Steel, and Fuel
- Payment (Article 7)
- Termination (Article 8)
- Schedules (Article 11.1)
 - Proposal, Baseline, Updates

Part 4 - General Conditions

- Design-Builder Responsibilities (Article 2)
 - “Kick-Off” Meeting
 - Monthly Progress Meetings
- Scope Validation Period (Article 2.2)
 - 180 days from NTP #1
 - Verify and Validate Proposal
 - Scope issues that could not reasonably been known
 - Submission Requirements
- VDOT Responsibilities (Article 3)
 - Provide Timely Reviews (21 days)

Part 4, continued

- Governmental Approvals (Article 2.6)
 - No Work Commences Until Approvals Received
 - Work Must comply with Approvals
- Hazardous Materials (Article 4)
- Payment: 20/80 (Article 6)
- Change Order Process (Article 9)

Part 5 - Amendments to Specs

Division I Amendments to the Standard Specifications

- Proposal Guaranty (Section 103)
- Bonds and Insurance (Section 103)
- Value Engineering (Section 104)
- Control of Work and Materials (Section 105)
- Labor Rates (Section 107)
- Prosecution of Work (Section 108)
- Based on Green Book (2007 Specs)

Questions ?