



**Project Showing: Route 622 over Cascade**  
**Project Number: 0622-071-680, C501, B691**  
**UPC: 95951**

June 8, 2015

**Todd Bolling, P.E.**

Area Construction Engineer, Lynchburg District

# Welcome and Introductions

- Todd Bolling opened the meeting with a welcome to all attendees and a round of introductions.
- The purpose of this project is to replace the bridge on Route 622 over Cascade creek in a very short span of time.
- Unique Items on the project include:
  - Limited approach
  - Pre-purchased truss bridge
  - Restricted time frame
  - Contract Special Provisions
- Predetermined Wage Rates are on pages 6-9 of the bid proposal.
- DBE Requirement of 7%.

## Project Overview – Terry Meadows, P.E.

- The purpose of this project is replacement of a structurally deficient bridge with limited approach roadway reconstruction.
- Project advertised 5/26/15
- Bids due by 10:00am, 6/24/15
- Accelerated construction is required to minimize duration of detour and impact to community.
- This project includes a great deal of political interest.
- Incentive/Disincentive provisions are included in the contract.










## Location and Design - Laura Walton

- Construct approximately 525-Feet of roadway without any impacts to Cascade Creek. Impacts to Cascade Creek will not be allowed and there are no permits in place.
- Stream relocations will need to be completed and stabilized before water can be turned into the new channels. There is a Time of Year Restrictions from March 1 – June 30, which will be outside of our construction time period.
- No cofferdams will be utilized.
- Access to Private Drive – (Apostolic Drive) needs to be open at all times.
- Clear only to construction limits, not to right of way limits. Utilize safety fence to establish construction boundaries .

# Proposed Bridge – Bryan Witt, P.E.

- Purpose:** Replacement of a structurally deficient bridge built in 1930. There are no existing plans. Existing structure is designated a Type B structure in accordance with Section 411.
- Existing abutments shall be removed in accordance with Section 413 of the Specifications, except existing Abutment B shall be completely removed to allow for construction of the new abutment.
- Existing piers shall be removed in accordance with Section 413 of the Specifications, except existing substructure shall be removed down to natural ground.

District:	Lynchburg (3)	Residency:	Halifax (18)
 Route:	622	Length:	136.15
County:	Pittsylvania ( 71 )	Deck Width:	21.32
VA Structure Number:	6028	Roadway Width:	20.01
Feature Intersected:	 Cascade Creek	Skew:	0
Functional Classification:	Rural Major Collector	 Sufficiency Rating:	4
Milepoint:	1.973538	Detour Length:	9.936
Lane:	---	Deck Rating:	4
 HTRIS ID:	13548	 Superstructure Rating:	4
Year Built:	1930	 Substructure Rating:	4
ADT:	1100	Number of Spans:	3
Year of ADT:	2012	Scour:	8-Stable for Scour
Roadway System:	Secondary	Deck Material:	CIP Concrete
Posting Status:	Posted for Load- 10 T	Posted Load:	10
Span Material:	Steel	Main Span Type:	Stringer/Multi-Beam Girder
Deck Wearing Surface:	Bituminous	 Inspection Freq:	12 months
Historic Significance:	Not Eligible for Nat'l Register	Last Inspection:	8/11/2014
Original Plan Number:		Next Inspection:	8/11/2015
Functionally Obsolete:	---	Structurally Deficient:	Yes
Structure Location:	0.25 Rt 859 - 0.30 Rt 855	Integral Bridge:	No

# Abutment Construction

- One **Dynamic Pile Test** required at each abutment to establish final pile driving criteria. See Special Provisions for Dynamic Pile Testing for End Bearing Piles (LRFD) and Wave Equation Analysis (LRFD) in the proposal for more information.
- Contractor to submit Pile Hammer(s), Wave Equation Analyses, and pile points for review and approval. We will expedite review of Contractor submittals. See sheet 6 of the bridge plans for Pile Data Table.
- In order to establish final driving criteria for production piles at each abutment, a staff member from CO Geotechnical Section may be on site or results of the PDA can be emailed to our CO Geotechnical Section from the field for quick turnaround. The PDA testing firm may also contact our CO Geotechnical Section by phone to discuss the results.
- **Please provide our office with at least five days advanced notice prior to when the Dynamic Pile Tests will be performed.**



# Prefabricated Steel Truss Superstructure

- **Prefabricated Steel Truss Superstructure is being procured and furnished by VDOT.**
- Fabricator: US Bridge
  - Mr. Brian Mergenthaler
  - U.S. Bridge Regional Sales Manager
  - Cell Phone: (412) 445-7661
  - Email: [bmergenthaler@usbridge.com](mailto:bmergenthaler@usbridge.com)
- Shop drawings are currently being reviewed. If approved prior to June 12, 2015 they will be added as an addendum to the CABB website, otherwise will be provided to successful bidder at the preconstruction meeting.
- *Erect Prefabricated Steel Truss Superstructure* will be paid for at the contract lump sum price. The price bid shall be full compensation for unloading, storage, and erection of truss superstructure furnished by the Department as well as placement of the stay-in-place metal deck forms furnished by the Department for construction of the concrete deck and all materials, labor, tools, equipment and incidentals necessary to complete the work.



Example: US Bridge Cambridge Truss

# Prefabricated Steel Truss Superstructure continued

- Truss to be fabricated and ready for delivery to project site no later than **September 14, 2015**.
- In coordination with the Contractor, the Department reserves the right to accept an earlier delivery date if mutually agreed upon between the Department and the truss fabricator/vendor.
- The prefabricated truss is an all bolted system, no field welding allowed on structural members.
- The truss is designed to be composite with the floor beams. Shear stud connectors will be attached to the floor beams in the shop. Stringers do not require shear stud connectors to be attached.
- The truss fabricator/vendor is required to have a representative of the Prefabricated Steel Truss Superstructure at the bridge site during erection to provide technical assistance in planning and erecting the superstructure. (Paid for by VDOT)
- The truss fabricator/vendor will provide stay-in-place metal decking needed to place the concrete deck between stringers. Please note that welding of stay-in-place metal decking or angle supports to stringers or floorbeams will not be permitted.



Example: US Bridge Cambridge Truss, all bolted



# Superstructure Construction

- When project is awarded truss fabricator (US Bridge) will coordinate with the successful bidder to establish detailed erection procedures.
- To provide for extended service life an 8" minimum concrete deck to be placed on the truss superstructure. We would encourage Contractors to discuss deck placements and screed set ups on truss superstructures with U.S. Bridge or other fabricators/vendors of similar systems.
- Incorporating jointless technologies, the superstructure details the use of deck slab extensions at the abutments.
- VDOT Standard BR27C-12 Railing detailed for use on this project. The post spacing has been provided on sheet 10 of the bridge plans.  
**Please submit shop drawings electronically for railing as soon as practical. We will expedite review of Contractor submittals.**



Example: BR27C Railing

# General Information

## Items for the Successful Bidder to keep in mind

- Section 105.10 - Working Drawings
  - Contractor may authorize a fabricator in writing to act for them in matters relating to working drawings. Such authorization shall have the force and effect of any other representative of the Contractor's organization. Contractor to submit authorization in writing if you desire this paragraph to be applicable to the subject project. **This allows for expedited review of show drawings.**
  
- Section 404.03(l) - Protecting Concrete
  - Protection shall be provided to prevent rapid drying of concrete as a result of low humidity, high wind, high atmospheric temperatures, or combinations thereof. The Contractor shall perform evaporation rate testing for bridge deck placements.
  
- Section 404.04 & Section 404.07(f) - Bridge Deck Construction and Finish
  - Contractor to submit information pertaining to the following steps with regard to casting concrete bridge decks: placing of concrete, vibrating, screed, straightedge, floating, and texturing. Advise exactly how you plan to perform each step of this operation. No more than three (3) passes with the screed is to be made over any area of the concrete deck so the concrete will not be overworked.
  
- Section 406.03 - Metal Bar Supports
  - Contractor to submit the type and spacing of bar supports you propose to use with stay-in-place corrugated metal bridge deck forms to support the lower and upper mats of reinforcement. **Please note that the use of composite or plastic bar supports will not be permitted.**

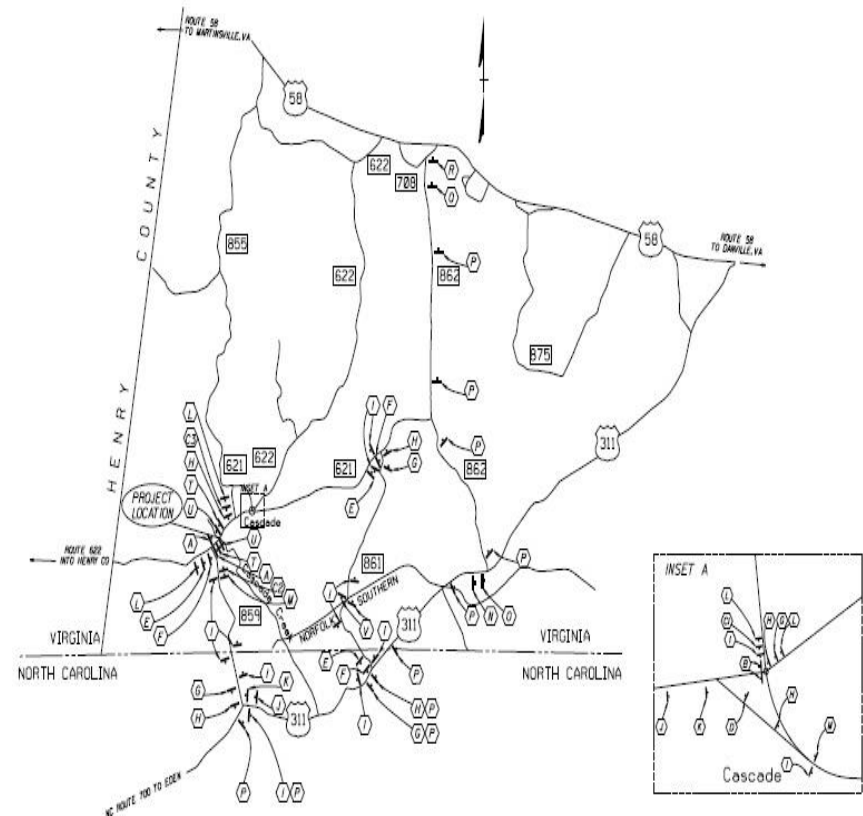
# General Information continued

## Items for the Successful Bidder to keep in mind

- Section 407.06(c) – Assembly of Structural Connections Using High-Strength Bolts
  - An approved tension-indicating device shall be at all job sites where high-strength fasteners are being installed and tightened. Bolt tensioning devices and complete bolt assemblies shall be tested with the device at the start of construction and as required for the installation procedure. This calibration device shall be provided by you and shall have been checked for accuracy by the manufacturer within the previous 12 months. Contractor to submit a letter from the manufacturer stating that this calibration device has been checked within the previous 12 months and indicate the results of these tests.
  - **Prior to installation, the Contractor shall perform a field rotational capacity test on two nut, bolt and washer assemblies for each diameter and length in accordance with the requirements of Section 226.02(h)3.**
  - Bolts shall not be reused.
  
- Section 407.04(a) 4. - Welds
  - Contractor to provide a copy of the welder's qualification certificate as well as a letter of certification (complete the attached form). We would like to know the type of welds (flat, horizontal, vertical, and overhead fillet welds, or flat, horizontal, vertical, and overhead groove welds) that this welder will be making on the structure.
  - **Welding pile splices and stay-in-place metal decking require a certified welder.**
  
- General
  - Contractor to submit request for approval of any additional construction joints that are not shown on the plans.

# Traffic Engineering – Danny Cruff

- All construction signs, posts and hardware procured by VDOT.
- Construction sign locations marked and cleared with Miss Utility by VDOT prior to Preconstruction Conference.
- This project will use approximately 200 signs.
- Signs, posts and hardware may be picked up by the Contractor at the Brosville Area Headquarters.
- After detour is removed signs, posts and hardware to be returned to Brosville Area Headquarters.
- All coordination with North Carolina DOT will be completed prior to work beginning.



## Environmental

- Time-of-Year Restriction on all instream construction activities from March 1 – June 30 to protect the federally endangered Roanoke Logperch.
- No in-stream work is scheduled or permitted.



## Utilities

- City of Danville relocation is complete (overhead electric)
- CenturyLink telephone relocation is underway, will be completed prior to construction (underground cable with overhead crossing at creek)



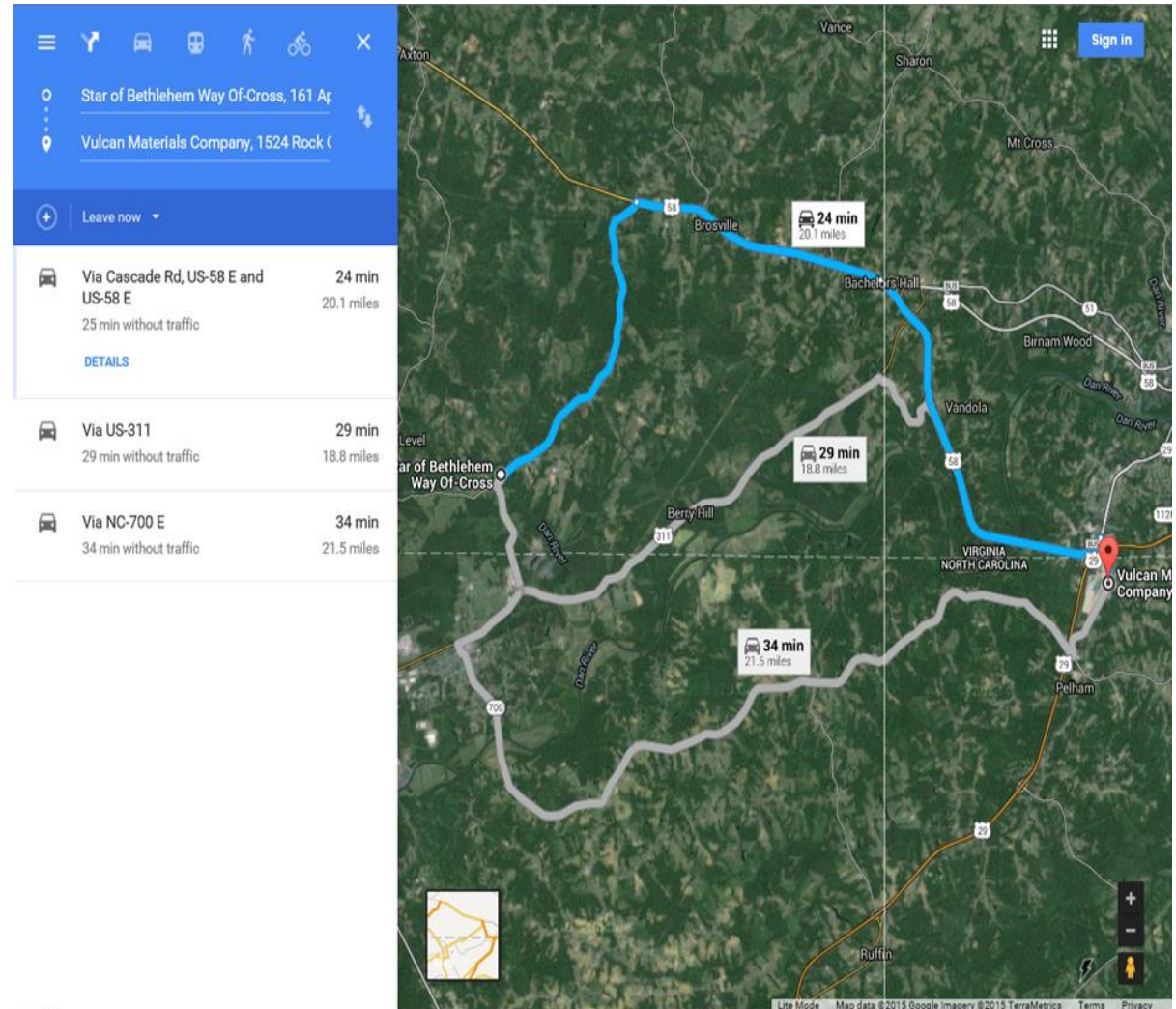
# Schedule and Incentives/Disincentives

## Justin Hsieh

- 30 Day Award and Execution
- Anticipated Notice to Proceed Date of July 24, 2015
- Substantial Completion Date – November 23, 2015
- Incentive – \$5,000/day for each day the project is substantially complete prior to SCD up to \$100,000 (November 3, 2015 substantial completion to maximize incentive) must make Project Completion within 30 days of substantially completing to receive incentive.
- Fixed Completion Date – December 23, 2015
- Disincentive – \$5,000/day for each day Substantial Completion is after November 23, 2015
- Project Specific LDs – \$2,500/day for each day Project Completion is after December 23, 2015

# Borrow Material Site

- Located at Southside Materials
- 1524 Rock Quarry Rd Pelham, NC
- Jim Raines General Foreman
- 336.388.5613 (o)
- 336.388.5663 (f)
- 434.770.3505 (c)
- Overburden material is preapproved for use on this project.
- Priced at \$35 per load.
- Weigh tickets will be issued and the loads will be calculated to the cubic yard in accordance with the general notes on page 2 of the plan assembly .





# Disposal Site

- Preapproved
- Currently permitted
- If another disposal site is used, then Pittsylvania county will send all site requests that are over 10,000 sq. ft. to DEQ for approval and no additional time for permit acquisition was allowed in the contract time determination schedule.

Star of Bethlehem Way Of-Cross, 161 A...

U.S. 58 & U.S. 311, Danville, VA

Leave now

Via Cascade Rd and US-58 E	14 min
14 min without traffic	11.2 miles
<a href="#">DETAILS</a>	
Via US-311	24 min
24 min without traffic	13.4 miles

Map data ©2015 Google Imagery ©2013 TerraMetrics

## Closing

- Showing minutes will be distributed within five (5) days.
- Preconstruction Conference tentatively scheduled for July 16, 2015 at 1:30 PM at the VDOT Chatham.
- Mr. Carder from Allegheny asked if anything has been designed regarding the overhang on the deck. Mr. Witt suggested contacting U.S. Bridge as they will have more information.



## In Attendance

Representative	Company	Phone Number	Email Address
J.V. Reece	VDOT	434-433-3144	<a href="mailto:John.Reece@VDOT.Virginia.gov">John.Reece@VDOT.Virginia.gov</a>
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RTE 622 BRIDGE OVER CASCADE CREEK  
 6/8/15 SHOWING

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