

COMMONWEALTH OF VIRGINIA
COUNTY OF HENRICO



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PURCHASING DIRECTOR
DEPARTMENT OF FINANCE

See www.ebidexchange.com/henrico for complete ADDENDUM NO. 2

TO: Prospective Bidders and Others Concerned
FROM: County of Henrico/AECOM
DATE: January 29, 2016
RE: ITB # 15-1104-12JK
Name of Project: Creighton Road Improvements, project 00986

The following changes, corrections, deletions, clarifications, and/or additions constitute Addendum No.2. Please acknowledge receipt of this Addendum No.1, dated January 29, 2016 on the Bid Form when returning your Bid package. **Failure to acknowledge this addendum may result in your bid being declared non-responsive.** All other general terms, conditions and specifications shall remain the same.

Clarifications:

- Q: Appendix, Geotechnical engineering evaluation page 2 indicates borings that were previously done and numbered as B-51 and B-52. Can the boring logs/reports that were prepared under this report be made available for reviewing soil types and topsoil depths?
- A: Yes, upon request after award.
- Q: Appendix, Geotechnical engineering evaluation page 7-8, 6.3 Bridge Foundations; 6.3.1 Driven Piles and 6.4 Shallow Foundations. Is it the intent by doing the undercut at the arch foundation down to elevation 104.00' and using a shallow foundation system that piles are not required? Are we to use the Contech express foundation system (or approved equal) without driven pile supports for the precast arch structure foundation?
- A: Yes, the undercut allows the use of spread foundations instead of piles. Express foundation system is not required, it may be used or cast in place.
- Q: Project special provisions page 1 item #2, 2.2 indicates bridge/structure inspection form included with special provisions. I do not see this form in the project manual is it relevant to the bid process?
- A: No.
- Q: Will there be a price adjustment allowed on the asphalt pavement bid items based on VDOT A.C. price adjustment indices at time of placement?
- A: No
- Q: I do not see anything as to the requirements for as-builts on the roadway, arch structure, waterline, sanitary sewer or storm drainage. What items will require certified (stamped) as-built drawings and what items will require marked up plan as-builts only?
- A: The approved signed and sealed arch structure shop drawings will provide the information needed for FHWA National Bridge Inventory system.
- Q: Will this project require the "Buy America" (use of domestic materials) special provision requiring all iron and steel items permanently incorporated into the project to be produced (manufactured) in the U.S.A. with a certificate of compliance to be provided?
- A: No.

- Q: Will a hazardous material investigation or survey be required prior to the existing bridge demolition?
A: No
- Q: Is there any hazardous material anticipated; asbestos cement pipes, insulation, lead based paint or other possible contaminated material at the existing bridge?
A: No.
- Q: Are the existing bridge plans available for viewing? If so can you include with addenda?
A: No.
- Q: Are we to install the Henrico County public utilities (water and sewer) in accordance with the revised 2014 DPU Henrico County Design and Construction standards?
A: Yes, drawings and details have been developed to 2014 DPU standards.
- Q: Is the pipe bedding detail shown on plan sheet 9(11) for the gravity sewer installation or the waterline?
A: Pipe bedding detail on sheet 9(11) should be used for waterline to be installed under existing pavement, specifically STA. 8+16 to STA. 12+10 and STA. 23+40 to STA. 27+00. For all other pipe trenching, contractor shall adhere to Henrico County DPU standards.
- Q: The pipe bedding detail on sheet 9(11) is not in accordance with the 2014 DPU construction standard section-10 Trenching and Backfilling. Do we use the plan for pipe bedding detail for the waterline and/or gravity sewer or do we use the DPU standard D-710-1, D-710-2 or D-730 for PVC or ductile iron pipes pressure or non-pressure? Please clarify the standard detail that is required for bedding on the water and sanitary sewer lines?
A: Henrico County DPU standards, D-710-1, D-710-2, and D-730 should be adhered to for all pipe being installed within new roadway alignment. Detail on sheet 9(11) approved by Henrico County DPU for use in trenches is required for installation of pipe under existing pavement.
- Q: The pipe bedding detail on sheet 9(11) indicates 8" of #21B, #57 or approved equivalent. #21 stone is not equal to #57 and the costs are significantly different a ton. What is to be used for backfill to 8" above pipe if we are to use this detail?
A: The stone sizes listed are approved for use in the trench, and either is approved for use by Contractor. The Contractor may provide a different stone size/gradation to be used within the trench, but it must be approved by Henrico DPU prior to installation.
- Q: The bid form indicates CL 52 ductile iron pipe and fittings, super bell on items #104, #114 and #118. The 2014 DPU standards section titled F-6 Materials Notes; indicates ductile iron pipe thickness class AWWA C-150 and a minimum thickness shall be Class 52 for 12" and smaller. What type of pipe and fittings on the waterline will be required? I don't think they make Super Bell anymore.
A: Class 52 D.I., push-on joint and mechanical joint in accordance with Henrico County DPU Standard 14.3 Water Distribution System. Please refer to Section 14 for all approved water and sewer materials.
- Q: Is there any information available on the flows running through the creek/stream (tributary to Stony Run) that is now crossed by the existing bridge? Need some information to help in determining the type of cofferdam that needs to be in place to handle the diversion of peak flow through the temporary culvert. Do you have a specific requirement for type of cofferdam construction or design?
A: 2-Year discharge = 144 cfs. The contractor will need to provide a suitable design in conjunction with their plans to perform the work.
- Q: Would a standard sand bag type flow barrier be sufficient for cofferdam construction or do we need a driven sheet pile structure? Please provide information because cofferdams could include many various types and could get expensive depending on requirements.

- A: Means and methods for cofferdam construction will be the contractor's responsibility. The contractor will need to provide a suitable design in conjunction with their plans to perform the work.
- Q: Will a structural engineered design be required certifying the cofferdam construction method?
- A: No.
- Q: Plan sheet 9(5) 12" waterline stations 7+59 and 13+22 indicate 12"x12" tees. We would use mechanical joint tees at these locations and not flanged fittings therefore the use of blind flanges would not be required but 12" MJ plugs would be. Will you change bid item #112 to reflect the use of mechanical plugs?
- A: MJ plugs are approved for use.
- Q: Where we are installing new water services to houses that are currently serviced by wells are we required to abandon any private wells?
- A: No. New water services extend to meters only. It will be the property owner's responsibility to contract with the County to make the house connection and abandon wells if desired.
- Q: Will the homeowner be required to connect the house side of the water service to the new meter box?
- A: Yes
- Q: Can you provide the peak and regular flow data for the existing 21" sanitary sewer main and the 8" main that enter the existing 48" manhole? Will need information for providing temporary bypass pumping of sewer in order to remove 48" structure and replace with a 60" (proposed #100) and install the new drop connection.
- A: Updated peak and regular flow data should be available from Henrico County DPU.
- Q: Where are the next in place upstream sanitary sewer manholes from the existing 48" structure (proposed structure #100) that needs replacing with a new 60"? Need to know where the next manhole on the 8" line headed to the golf course area and the next upstream manhole on the 21" line headed northwest for bypass pumping.
- A: Locations of the 21" line's sanitary manhole is provided in Henrico County as-built: S-6838-1-04-PAP-0. It is also available from DPU Sewer Book. AECOM does not have as-built information for 8" line from golf course club house. As-built data should be available through Henrico County DPU.
- Q: Could we install a new 60" sanitary manhole closer to the existing 48" structure indicated as replacing (proposed structure #100) and tie everything in and have two manholes close together on the existing 21" line? That would allow not having to bypass pump the 21" and 8" and would be cheaper but there would be two manholes within 15'-20' of each other. Install a new 60" manhole on the downstream side of the existing 21" line approximately 15' from proposed #100.
- A: The placement of MH 100 is based on the offset from the proposed Precast Arch Structure. Installation of an additional manhole to avoid bypass pumping would require approval from Henrico County DPU. A 60" sanitary manhole 15'-20' downstream would only provide a 5' offset from the arch culvert wing wall. Furthermore, installation of this sanitary line is through a wetland, and any changes to alignment would require changes to permits. Also, this manhole would be in a proposed drainage channel from structure 4-9.
- Q: There does not currently appear to be a fence in place from the existing golf course entrance 112+50 left to the gate on the left side of the road at 118+50 left. There is a new chain link fence going in along this location but addendum #1 clarification indicates temporary fence required before permanent fence is installed. We would like to leave the permanent fence out of the work area so it doesn't get damaged in this area and since no fence is currently in would temporary be required here?
- A: Temporary fencing will not be required where there is no existing fence.
- Q: Are we to use restrained joints on the 140' of 24" CL 50 ductile iron sewer pipe to be installed through the steel casing?
- A: No

- Q: Plan sheet #2J Roadside Development has conflicts in seed types specified for the roadway areas described in the roadside development summary chart. Indicates outside RPA and inside RPA to see core seed mix table. The core seed mix table indicates core mix only in areas outside the RPA. What seed mix for roadway slopes and shoulders inside the RPA not defined as wetlands seed mix do we use?
- A: Sheet 2J has been updated for seed types for areas inside and outside the RPA.
- Q: Plan sheet #2D surge stone incidental summary quantity of 4,049 tons seems excessive to plan sheets #4 and #5 indicated as undercut areas (shaded) at 2' in depth. What conversion factor are you using to go from cubic yards to tons on the surge material VDOT #1, #2 or #3 for the bid form quantity?
- A: 125 lb/cf was used.
- Q: The existing asphalt driveway/entrance into the golf course is not hatched out in accordance with demolition of pavement call on sheet #4. Is this part of the demolition of pavement bid quantity or to be considered incidental work and included with regular excavation in accordance with construction plans general notes as indicated on sheet #2?
- A: Any entrance demolition of pavement required is considered incidental work and included in regular excavation.
- Q: Plan sheet 2G(6) sequence of construction note at the end of each plan sheet indicates slopes greater than 3:1 require blanket/matting. The typical section sheet 2A(1) and 2A(2) has all slopes at 2:1. What type of matting will be required here EC-2 or EC-3? Will the bid item for matting be adjusted to include the roadway slopes for either type of matting being required?
- A: No, the bid item will not be adjusted to include the roadway slopes. Permanent roadway fill slopes do not require blankets/matting. Temporarily denuded areas created during construction with slopes greater than 3:1 will require blankets/matting.
- Q: Bid item #50 temporary diversion channel lining class "B". Seems like the diversion channel listed under the VDOT Road & Bridge standards as EC-12 is more for a live stream diversion that would require the heavy (woven fabric, rip rap or sand bag) lining type "B" than a temporary diversion swale. Are you going to require a type "B" EC-12 lining on all temporary diversion channels?
- A: Channel lining type B is specified for channels with longitudinal slope equal to or greater than 2%. Lining type is specified on the plans.
- Q: Will a temporary field office be required for the project? If so can we place a trailer at the golf course parking area?
- A: It is not required. If the contractor desires to use one, it will be their responsibility to secure the location and agreement.
- Q: Please verify what was mentioned at the pre-bid meeting on the status of Dominion power and Verizon telephone and fiber optic lines being relocated. Is Dominion power relocated now to the proposed permanent location or just temporary? Is Verizon completely out of the work area? What is the status on Comcast cable and City of Richmond gas?
- A: Dominion Power is temporarily relocated around the proposed arch structure location to enable demolition of the bridge and construction of the arch. Verizon is relocated to their permanent location. Location of the Verizon line will be the responsibility of the contractor to assure its protection. City of Richmond gas is to be coordinated with for their relocation through the Utility Coordinator bid item.
- Q: What permits will the contractor be responsible for obtaining and paying the fees on?
- A: None are anticipated.

Plan Revisions

<u>Sheet Number</u>	<u>Description</u>	<u>Revision</u>
1H(1) - 1H(2)	Underdrain Layout Sheets	Added drainage structure callouts
2A(2)	Typical Section Sheet	Added note for underdrain sheet
2C	Pave/Earthwork Summary Sheet	Added shrink swell factors/updated notes
2D	Incidental Summary Sheet	Updated geotextile fabric title
2H(1)	Details Sheet	Removed note#7 C&G
2J	Roadside Development Sheet	Revised inside/outside RPA seeding note
7(2)	Stream Relocation Sheet	Added label for profile under arch
7(3)	Temporary Diversion/SOC	Added elbow callouts
7(4)	Arch Culvert Typical Section	Added callout @ Fin.grade & 2' EC stone
8(1)	Sign Schedule Sheet	Changed note to "Remove and Dispose"
9(2)	Utility Notes Sheet	Added drop connection quantity
9(8)	Utility Plan Sheet	Added callout for drop connection
9(11)	Utility Notes Sheet	Added detail for drop connection
X16-X19	Creighton Rd Cross-Sections	Removed Access Rd. Callouts

Bid Document Revisions

Invitation to Bid file 00_03 has been revised to change the receive and open date to February 4, 2016.

Bid Form file 00_05A has been revised to reflect 365 calendar days for substantial completion of work and add one additional bid item to the total to make 133 for the addition of one 8" Drop Connection.

Bid Form Excel file 00_05B has been revised to reflect additional bid item number 133.

Utility Special Provisions file 00_19 has been revised to add item #133 special provision for 8" drop connection.

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