



**ARLINGTON COUNTY, VIRGINIA  
OFFICE OF THE PURCHASING AGENT**

**INVITATION TO BID NO. 24-DES-ITBPW-439**

**ADDENDUM NO. 1**

Arlington County Invitation to Bid No. 24-DES-ITBPW-439 for Nelson Tunnel Rehabilitation is amended as follows:

- I. CHANGE THE QUESTION DUE DATE AND TIME TO JUNE 3, 2024 AT 5:00 P.M.**
- II. CHANGE THE BID DUE DATE AND TIME TO JUNE 18, 2024 AT 3:00 P.M. CHANGE THE BID OPENING TO JUNE 18, 2024 AT 3:01 P.M.**
- III. PROVIDE AGENDA AND ATTENDEE LISTS FROM PRE-BID/SITE VISIT, INCLUDED AS SEPARATE ATTACHMENTS.**
- IV. RESPOND TO QUESTIONS RECEIVED BY THE QUESTIONS DEADLINE:**

**Question 1: The Bid Due date for IFB: 24-DES-ITBPW-439 is scheduled for 5/27/2024 which is an observed Federal Holiday? I was wondering if Arlington County Government was going to revise this Bid Due Date.**

**Answer 1:** Yes, please see Section I of this Addendum 1.

**Question 2: Would Geocast be an approved material for the Geopolymer Liner?**

**Answer 2:** Please see "EXHIBIT G SUPPLEMENTAL SPECIFICATIONS FOR NELSON TUNNEL GEOPOLYMER LINING SYSTEM" Sections 2.02, 2.03 and 2.04 for approved materials and required characterization techniques and physical properties.

**Question 3: Would the Owner/ Engineer please provide an engineering estimate or owner's budget for the project?**

**Answer 3:** The County does not provide budget information for solicitations.

**Question 4: The specs state the pipe is a 7' arch pipe, what are the exact height and width dimensions of the arch pipe?**

**Answer 4:** Per as-built drawings, the tunnel is a circular 7-ft liner plate tunnel. Exact shape and dimension shall be field verified by the Contractor.

**Question 5: In order for bidders to bid apples to apples would the Owner/ Engineer please add a pay item and an estimated number of gallons for the infiltration control?**

**Answer 5:** The County does not have any information on the level of infiltration.

**Question 6: Can the owner/engineer provide assumed number of infiltration control points that need to be addressed?**

**Answer 6:** The County does not have any information on the number of infiltration points.

**Question 7: Are we safe to assume this tunnel is dry and the only water that we may encounter is small amount of standing water from infiltration? If not, would the Owner/Engineer provide an estimated of amount of dewatering required, (either inches of water, Linear Feet per Second, or better yet, estimated Gallons per Minute flow for dry / wet weather / and peak storm events)**

**Answer 7:** Videos and still images from 2018 and 2019 inspections are provided as separate attachments to this Addendum 1. The County does not warrant that the videos and still images portray current conditions.

**Question 8: Is there a nearby storm or sanitary sewer (possibly upstream that is connected or parallel) that we can divert the water into?**

**Answer 8:** On the north side, there is a storm structure within 50 feet of the shaft access. On the south side, there is a storm grate approximately 100 feet from the shaft access. Any discharge will need to meet stormwater discharge requirements.

**Question 9: Does the owner / engineer want the outside of the water line pipe to be coated as well as the inside the access shafts and tunnel with the Geopolymer?**

**Answer 9:** Geopolymer does not need to be applied to the water transmission main.

**Question 10: Is it the owner / engineer's intent for the contractors to also apply 2.5" of Geopolymer for the access shafts? If not, would the owner / engineer please provide the required minimum thickness?**

**Answer 10:** Geopolymer shall be applied to tunnel and shafts. Minimum thickness of 2.5 inches is required. Contractor shall submit calculations to indicate whether 2.5 inches is adequate, or a larger thickness is required. Yes, the requirement is for the tunnel and both access shafts.

**Question 11: Would the owner / engineer confirm that we can access the north side from N. Nelson St across Custis Trail by utilizing matting to not disturb the existing grass?**

**Answer 11:** Yes.

**Question 12: Would the owner / engineer please provide any full-length CCTV videos, still pictures, or detailed inspection reports of the access shafts and tunnel?**

**Answer 12:** Please see Answer 7.

**Question 13: Currently, the bid date falls on a National Holiday (Memorial Day holiday 5/27/24). Therefore, would the owner / engineer please consider moving the bid date one week (6/3/24)?**

**Answer 13:** Yes, please see Section I of this Addendum 1.

**Question 14: Without being able to see the tunnel, would the Owner/ Engineer please provide an estimated number of total debris that is anticipated for us to remove? (or an approximate depth in inches)**

**Answer 14:** Please see Answer 7.

**Question 15: Would the owner/ engineer please provide the name and location of a local disposal area for debris removal?**

**Answer 15:** Bidder is responsible for identifying the disposal site.

**Question 16: Would the owner/ engineer please provide pictures and /or further close up details for the access shafts and how the ladder assembly connections / straps are fixed to the wall?**

**Answer 16:** Please see Answer 7.

**Question 17: Can the ladder and hardware be reused or does the owner/ engineer intend for new ladder assembly be installed?**

**Answer 17:** Yes, the ladder and hardware are to be reused.

**Question 18: Since the plans show the ladder in the vertical access shaft to be welded and only 7" from the wall, can the contractor spray around the existing vault ladder straps / brackets in place without removing and replacing the ladders?**

**Answer 18:** Per EXHIBIT G SUPPLEMENTAL SPECIFICATIONS FOR NELSON TUNNEL GEOPOLYMER LINING SYSTEM" Section 3.15.B and 3.15.C, "Licensed Applicator shall remove any materials necessary to ensure an even and consistent application of Geopolymer Liner throughout the tunnel and access shafts as per the approved Contractor plan", and "Any and all materials inside the tunnel or access shafts removed during lining operations shall be restored or replaced at Licensed Applicator's expense, unless otherwise approved by Owner/Engineer."

**Question 19: Is the 36" water pipe in the vertical access shafts free floating or is it anchored to the shaft walls? Would the owner please provide pictures and specifications on the vertical water line?**

**Answer 19:** Please refer to as-built drawings. Please also see Answer 7.

**Question 20: Currently p. 157, (as-built sheet 10 of 11), "typical tunnel Section" - Elevation, states the pipe roller & concrete support (2 supports per length of pipe placed). The total run length of the tunnel is 243 LF + the 94 LF of vertical shaft. Will the owner / engineer please provide the total number of pipe supports in order for the bidders to determine how many pipe Appurtenances we need to replace?**

**Answer 20:** The County does not have the exact number of supports.

**Question 21: Will the owner / engineer please confirm the Appurtenances consists of the following: 1/4" thick flat steel strap = 68", standard hex nut, 1/4" thick plate washer. Are we to cut the welded all thread 1/2" bar that is welded to the bottom of the tunnel and then replace and weld a new 1/2" all thread bar?**

**Answer 21:** Yes, those are the appurtenances per pipe length. 1/2" bars may remain in place.

**Question 22: Are all of the Appurtenances going to be replaced with Steel or 316 stainless steel?**

**Answer 22:** Stainless steel is not required.

**Question 23: We are not to coat the pipe roller baffle supports with Geopolymer, correct?**

**Answer 23:** Only the tunnel and shaft are required to be coated with geopolymer.

**Question 24: Will the owner / engineer please confirm if the existing 36" water pipe is steel?**

**Answer 24:** The County believes the 36-inch transmission main is ductile iron installed in 1985.

**Question 25: Will the contractors be required to remove and replace the pipe rollers? If so, please provide more information for the rollers (manufacturer, diameter, specs, lengths etc.)**

**Answer 25:** An inspection of pipe rollers shall be performed during construction to determine whether replacement is needed. Replacement material shall be equal or better than existing rollers. Contractor shall submit roller material, if needed, for review and approval by Owner.

**Question 26: On the South end of the site, in order to coat the 12' diameter access shaft with Geopolymer, we will likely need to remove the 8"- 14'x14' pre-cast concrete slab top. We will need a fairly large piece of equipment to complete this task. Since site access and space is very limited, can the owner / engineer please detail an approved easement / access route, construction site and laydown area for us to complete this work?**

**Answer 26:** Option 1: Bidder shall consult photos provided with the bid package and consider a site visit to identify a suitable laydown area.

The balance of the solicitation remains unchanged.

Arlington County, Virginia

Kaylin Schreiber  
Procurement Officer

**RETURN THIS PAGE, FULLY COMPLETED AND SIGNED, WITH YOUR BID:**

**BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM NUMBER 1.**

**FIRM NAME:** \_\_\_\_\_

**AUTHORIZED SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_