

May 28, 2021

NOTICE TO BIDDERS

ADDENDUM NO. 3

RFQ 382783

The following changes and/or additions shall be made to the original Invitation for Bid No. RFQ 382783: NorthStar Boulevard Phase II. Please acknowledge receipt of this addendum by signing and returning with your bid.

1. The purpose of this Addendum is to respond to questions received.
2. This Addendum contains a revised Schedule of Bid Items. Failure to include this revised Schedule of Bid Items in your Bid or including a previous version in your Bid may result in your bid being rejected as non-responsive or non-responsible.

Prepared By: s/Nebila Kurtu, CPPB, VCCO, FMP Date: 5/28/2021.
Contracting Officer

Acknowledged By: _____ Date: _____

Attachments:

- Attachment 1: Updated Special Provisions
- Attachment 2: Sheet 1G (3) Geometric Layout and Alignment
- Attachment 3: Sheet 2B (3) Typical Section
- Attachment 4: Sheet 72-Erosion and Sediment Control
- Attachment 5: 9999-053-R31 Bridge Plan Sheet 37
- Attachment 6: Clay Liner-Onsite Material Testing Boring Location
- Attachment 7: Bid Items in PDF
- Attachment 8: Bid Items in Excel

BEGIN QUESTIONS AND ANSWERS

- Q1: Curve data for C4 does not match between sheet 1G(5) of 86 Northstar Boulevard – Route 3171 Centerline and curve data C4 on sheet G(3) of 86.
A1: Curve Data for C4 on sheet 1G(3) has been corrected to reflect the correct data on sheet 1G(5). Revised sheet 1G(3) has been provided with this response.
- Q2: Request for Information: Sheet 1G (5) of 86
Geometric Layout and Alignment Data
NorthStar Boulevard – Route 3171 Centerline
Bearings provided for straight alignment between PT 409+62.927 to PC 413+26.482 (N17°10'58"E) and PT 416+45.386 to POT 419+35.967 (N01°01'10"E) do not appear to be correct. Please confirm or provide correct bearing for these two segments.
A2: Bearings have been confirmed. Please also refer to answer to Q1 above.
- Q3: The "Bid Item" form has Seeding Items that seem to list all the components of the actual seed mix with no quantities and then at the end of a particular list if items there appears to be an actual Bid Item with a quantity (i.e. line items 120-124 appear to be the components) and line item 125 appears to be the actual bid item. Please confirm that pricing is to be provided for the actual bid item (line 125) and no pricing is required for the component items (line 120-124). This set of items is only an example and there are similar sets of items. Please confirm that the above statement is correct for all of these situations.
A3: Bid Items 120-124 will be consolidated into Bid Item 125. 126-127 consolidated into 128, 129-133 into 134, 135-137 into 138, and 139-142 into 143.
- Q4: The material for the clay liners for the SWM ponds "shall be consistent with Low Permeability Liners for Stormwater Management Facilities Section 245 of the VDOT R&8 Specifications: SWM liner soil shall be classified as CL, CH or MH in accordance with ASTM D2487 and shall have a maximum coefficient of permeability of 1×10^{-6} cm/sec in accordance with ASTM D5084, after compaction.". The proposal then states that "Clay Liner will not be measured for separate payment and shall be included in the cost for Regular excavation and borrow." Is the clay material available on-site? If not, how will the contractor be paid for importing suitable material?
A4: It is anticipated the clay material for the liner (based on Geotechnical borings and data) will be available on-site via removal of the unsuitable materials. Locations of potential suitable materials have been highlighted in green on the boring log and included with this response. A

supplemental note (#2) has been added under Drainage & Stormwater Management Notes stating “The Contractor will be responsible for sieve analysis and permeability testing to confirm material before placement in the pond. Approval from the County will be required prior to placement of the liner in the pond and bio-retention facility”.

Q5: Please refer to bid items for CPSR 2 Rails & 3 Rails. They should be CPSR 1 Rails & 2 Rails. Plan sheet 20 of 44 Bridge plans has them labeled as CPSR 1 Rail and CPSR 2 Rail. Please confirm and change bid item descriptions.

A5: Item “Railing, CPSR 2 Rails” with an item code 62034 is for the exterior railing covered by VDOT Standard CPSR-1-AT.

Item “Railing CPSR 3 Rails” with an item code 62035 is for the separation barrier covered by VDOT Standard CPSR-2.

Q6: Please confirm no conduits are required in any of bridge parapets.

A6: No conduits are required.

Q7: Please confirm that end diaphragms are to be class A3.

A7: The end diaphragms shall be Class A4 concrete since they are part of the deck/superstructure.

Q8: Please confirm if staining is required on the architectural surface treatment area?

A8: Staining will be Stacked Stone color (Federal Standard Colors 10324, 23617, and 26306) on a Drystack Texture form. Refer to revised sheet 37 of 44 included with this response for Drystack Texture detail. Refer to VDOT Manual of Structure and Bridge Division Part 2 File No. 05.04-3 for color.

Q9: Can single use form liner be used?

A9: Yes

Q10: Please look at quantity for concrete class A3. It appears to be way overstated.

A10: Quantity has been confirmed. Concrete Class A3 is for the entire substructure, including the wing walls.

Q11: The Geotechnical Report appears to indicate rock in the excavations on this project for the bulk and drainage pipe excavations. Is drilling and blasting an acceptable method for rock removal on this project. If so; what if any restrictions would apply.

A11: Drilling and Blasting is an acceptable method for rock removal given the contractor complies with all Loudoun County Fire Prevention Code, NFPA, Federal, State, and Local laws, ordinances, codes, standards. The contractor shall be responsible in obtaining required permits prior to work. Also refer to SP107-001110-00 for additional information.

Q12: Refer to sheet 4 of structure plans, detail for section through abutment – Fill/Cut section. It appears that the area beneath the approach slab and inside the hatched section labeled as “To be paid for as structural excavation” makes up the Select backfill abutment zone bid item. Please provide dimensioned limits for the hatched area since this “Structure Excavation” bid item has Select backfill incidental to the item.

A12: All the proposed dimensions that are needed to estimate the Structure Excavation are provided on the bridge plans. Existing ground surface elevations can be obtained from the grading plans.

Q13: Please confirm the limits of mill/overlay and build-up required on Route 50. The plan shading and the typical sections are in conflict and need to be clarified.

A13: Limits are shown on sheets 9, 10, and 11 for mill/overlay and buildup. The typical sections have a note sheets 2B(4) and 2B(5) under the typical sections for Route 50 which reference plans for locations where mill and overlay is different.

Q14: Notes on the water main profile sheets read ALL new 24" waterline to have cathodic protection anodes and bonded joints yet the profiles show some to receive cathodic protection and other lines not. Please clarify.

A14: Cathodic Protection is required between test stations as labeled on the profiles. The proposed waterline on sheet 25 will not require Cathodic Protection. Cathodic protection will only be required for the 24" watermain relocation on sheet 26. Note that bid item 170 has been revised to Cathodic Protection System and Loudoun County Special Provision Cathodic Protection System added.

Q15: Please provide the anode quantity chart and the overall corrosion control plans for this work. There is not enough information, as currently provided, to allow for complete pricing.

A15: An anode quantity chart is not included as part of this invitation to bid. The contractor will follow Loudoun Water requirements and details as shown on the plans, Loudoun Water manual, and Loudoun Water Cathodic Protection Details. Refer to answer to A14 for locations where cathodic protection is required. The contractor will be required to obtain approval from Loudoun Water with for all proposed systems. Refer to Loudoun County Supplemental Notes #2 under Water & Sewer Section. Note that bid item 170 has been revised to Cathodic Protection System and Loudoun County Special Provision Cathodic Protection System added.

Q16: Due to the dimensions of the concrete in the abutment substructure will the VDOT special provision or specifications regarding mass concrete be required?

A16: Special Provision SP217-000120-00 for mass concrete has been added to the Special Provisions.

- Q17: Please provide the proposed grades under the bridge where the CL.II riprap is to be placed and/or the slope of that riprap.
A17: Refer to bridge plans sheet 4 for design. Grading has been provided on the grading sheets.
- Q18: What items are to be paid in the lump sum bid item for Maintenance of Traffic? There are not pay items for construction signs, drums, message or arrow boards, flaggers and crash trucks that will be necessary for the Route 50 work. Please confirm what work the contractor should include in the lump sum pay item.
A18: All required items shown on plans, specifications, and VDOT requirements are included within the lump sum bid item for Maintenance of Traffic.
- Q19: Are there any time of year restrictions and/or army corp. of engineers permit regarding the disturbance of Broad Run?
A19: No time restrictions per the permit.
- Q20: Please provide any/all summary sheets.
A20: Summary sheets are not part of the plans or attachments.
- Q21: Please provide the plans showing the location of the relocated utilities that are in conflict with the proposed work. Are all of these utilities relocated and/or what is the status of the relocations.
A21: All required relocated utilities, unless noted in the special provisions, have or will be relocated at construction.
- Q22: Is there a pay item for the MS-1A in the median at the ends of the bridge?
A22: Bid item#79A has been added (24 sy) for Median Strip MS-1A.
- Q23: Is the CIP Bridge End Diaphragms included in the quantity for Item 195?
A23: Yes, it is included in Concrete Class A4.
- Q24: Is the bridge deck median included in the quantity for Item 195?
A24: Yes, it is included in Concrete Class A4.
- Q25: Bid Item 195 is for Concrete Class A4, the bridge plans call for Low Shrinkage Class A4 Modified. Should the description for the bid item be revised?
A25: Bid Item 195 description has been revised to Concrete Low Shrinkage Class A4 Modified.
- Q26: Where is the Water Pipe Profile for the 328 LF of 8" DIP?
A26: Refer to sheet 17 for profile.
- Q27: What are the limits of testing for the Existing Loudoun Water Corrosion Control System?

A27: Testing of the Corrosion system will be required between the existing test station at station 23+85.61 (sheet 25) and the connection to the existing 24" watermain B (Sheet 26)

Q28: Are the repairs to the existing Corrosion Control System limited to those within the water relocation areas or project wide?

A28: Correct, only within the water relocation.

Q29: There is a line item for Cathodic Protection Test Station. Would the owner consider making a line item for Cathodic Protection System?

A29: Bid item 170 has been revised to Cathodic Protection System and Loudoun County Special Provision Cathodic Protection System added.

Q30: Has Loudoun Water done simulated valve shutdowns?

A30: Loudoun Water has studied and performed the analysis of this temporary shutdown. A temporary shutdown of this main during construction of the roadway is acceptable. The Contractor should place the ultimate 24-inch water line in service as soon as is reasonably practicable. Additional note #3 under Water and Sewer (Loudoun County Supplemental Notes) has been added with this addendum.

Q31: Line C, Sheet 28A. The existing Valves station 12+63 are within 10' of each other at a 90* bend. Will Loudoun Water be able to isolate pressure to the South and East 24" Valves to make the tie-in safe?

A31: Loudoun Water has stated they will be able to isolate pressure and make this tie-in safe.

Q32: Were any Test Borings completed along the centerline of the proposed water?

A32: No

Q33: What is the composition of the existing 30" Sanitary Sewer in the area of the encasement extensions?

A33: The pipe was designed as PVC per AWWA C-905 per approved Loudoun Water Plan LCSA#2005-0096.

Q34: Please confirm the "rock excavation" item will be a pay item available to contractors, regardless of whether the rock excavation is for roadway, minor structure excavation and/or structure excavation.

A34: Correct, rock excavation will be for roadway and structure excavation.

Q35: Section 1.1 of the IFB states imported suitable material for roadway embankment is a non-pay item. There exists the possibility for a very sizable amount of imported material to complete the roadway embankment. Please consider adding a common borrow bid item for imported material.

A35: The project is anticipated to not require borrow material and material onsite used for roadway embankment.

- Q36: Mass rock excavation is very different work than trench rock excavation. Please consider adding a bid item for possible trench rock excavation.
A36: All rock excavation to be bid under Bid item 6.
- Q37: Bid Item 147: Please define what the county means by weeding the entire project area; is this meant to be mowing and minor maintenance of grass areas?
A37: Bid Item 147 description has been revised to REMOVE WEED, GRASS & ROOT GROWTH/PLANT LOC (Unit is EA and Quantity 10) and is within the planting area. This will be in accordance with VDOT Road and Bridge Specifications Section 605.
- Q38: Bid Item 146: Please confirm this is meant for watering of trees and other plantings only. If so, where will watering of seeded areas be paid for?
A38: Watering on Bid Item 146 has been omitted from this bid. The watering will be required for each plant listed in the Landscaping Section of the bid items per the requirements of VDOT Road and Bridge Specifications Section 605, plans, and special notes. Refer to added special note #3 under Landscape.
- Q39: Will the County be providing all project permits?
A39: All permits with exception of permits listing in the IFB which the contractor will be responsible for.
- Q40: Will the County be providing all third-party testing for the project? If not, is the Contractor responsible for providing/paying for any third-party testing?
A40: Contractor will be responsible for all required QC testing and testing identified in Special Provisions. Loudoun County will be responsible for QA testing.
- Q41: Please clarify how long after substantial completion does the contractor need to provide maintenance/warranty of plantings and seeded areas.
A41: Refer to VDOT Road and Bridge Section 605.09.
- Q42: Bid Item 255: Please clarify what this bid item is to be used for and what is to be included within the unit pricing.
A42: Bid item 213, 255, 297 have been removed.
- Q43: Will asphalt adjustments be provided on the job?
A43: No adjustments will be provided.
- Q44: Will fuel adjustments be provided on the job?
A44: No adjustments will be provided.
- Q45: Please clarify if this project is unclassified to subgrade. Furthermore, if imported soils are needed due to unsuitable fill, how will the contractor be paid for this?
A45: The project is unclassified. The project is anticipated to not require borrow material and material onsite used for roadway embankment.
- Q46: Will all undercutting (both mass excavation and trench excavation) be paid for under bid item #7?
A46: Undercut Excavation shall consist of removing and disposing of unsuitable material located within the construction limits in accordance with VDOT Road and Bridge Specifications Section 303.06(a)3.

Q47: Will all rock excavation (both mass excavation and trench excavation) be paid for under bid item #6?

A47: Yes

Q48: Is topsoil stripping included for both fill areas and cut areas included within the regular excavation quantity?

- a. If topsoil stripping for fill areas is included within the regular excavation quantity, to what depth of TS stripping will this be paid for?

A48: Yes, topsoil stripping is included in regular excavation. In fill sections, excavation of topsoil and root mat and material down to an elevation of 1 foot below the bottom of topsoil and root mat will be measured as regular excavation consistent with VDOT Road and Bridge Specifications.

Q49: Will there be a provision for Fuel, Asphalt and Steel price adjustments?

A49: No adjustments will be provided.

Q50: Item 148 calls for 12" watermain removal, which I didn't find on the plans, although I did find 6" and 8" watermain removal which there is no item for.

A50: Bid item 148 has been revised from 12" to 8". Bid item 166 description and quantity has been revised to include the 6" waterline.

Q51: There is no item for Culvert Inlet Protection. Where do we get paid for this?

A51: Culvert Inlet Protection will be measured and paid for with individual pay items and pay items for EC-6 (check dams and silt fence) in accordance with VDOT Road and Bridge Specifications for Inlet Protection, Type C. Note that check dam quantity (bid item #176) has been amended.

Q52: The E&S phase 1 plans call out 2 temporary stream crossings, 1 at the bridge location and 1 at the box culvert location, but the bid form only has 1 EA.

A52: The SC at the box culvert is for the construction of the permanent box culvert and bid under bid items 8-10. The temporary stream crossing near the bridge will be bid on with bid item #174.

Q53: The E&S phase 1 plans call out a "SCC" at the box culvert location, but there is nothing on the legend and no bid item associated with this.

A53: "SCC" has been removed as this is not a stormwater conversion. Plan sheet has been revised to remove "SCC". SCC was labeled to demonstrate runoff to be directed away from installed box culvert and into ST#5. Grading shown to be paid under Regular Excavation bid item #5.

Q54: Plan sheet 2B(3), typical section for NorthStar Boulevard, the paved shoulder right of centerline has a section of A/B/C/D1. The "C" seems to be a mistake, can you confirm this is incorrect?

A54: The "C" callout was inadvertently left in the sheet at the referenced location. A revised sheet 2B(3) has been provided.

Q55: Bid Item 73 "GUARDRAIL GR-MGS2" has a pay unit of LF, VDOT usually has a pay unit of EACH for this guardrail. Should the pay unit be revised to EACH?

A55: Pay item has been revised to EACH.

Q56: The transportation management plans indicate a number of items of work that pay items were not included for (i.e. Impact Attenuator Service TL-3, Type B Warning Lights, Group II Channelization Devices, Construction Warning Signs, Portable Changeable Message Signs, Temporary (Construction) Sign, Truck Mounted Attenuator, Electronic Arrow Board). Please add pay items for these items of work.

A56: All required items shown on plans, specifications, and VDOT requirements are included within the lump sum bid item for Maintenance of Traffic.

Q57: Will temporary pavement marking be required for the Route 50 maintenance of traffic?

A57: Yes, temporary pavement markings will be provided as shown on the approved plans and will be included within the lump sum bid item for Maintenance of Traffic.

Q58: Bid Items #213, #255, #297 Are all labeled "NS Labor & Equipment" with a unit price of "Per Day" for each Traffic Signal location. Can you confirm the intent of this item and in what circumstances the contractor would be paid for this item?

A58: Bid item 213, 255, 297 have been removed.

Q59: The "Trench Excavation" bid item is undefined for the traffic signal scope. Can you confirm that this trench excavation will be VDOT STD ECI-1 for pay items #254, #296 and #334?

A59: Trench Excavation will be VDOT STD ECI-1.

Q60: For the signalization scope (All 3 Locations), there does not appear to be a pay item to install a VDOT SE-5 Electrical service to power the signals. Can you confirm and/or provide a bid item for this activity?

A60: VDOT SE-5 Electrical service will be included in bid items 224, 267, and 309.

Q61: On sheet 2 of 86, Note 4. States: OPEN CUTTING OF PAVED OR SURFACE TREATED ROADS IS NOT PERMITTED. ALL UTILITIES WHICH WILL BE PLACED UNDER EXISTING STREETS ARE TO BE BORED OR JACKED. ANY EXCEPTIONS, DUE TO EXTENUATING CIRCUMSTANCES, ARE TO BE ADDRESSED AT THE PERMIT STAGE.

ALL DRILLED, JACKED OR BORED CROSSINGS SHOULD BE CLEARLY IDENTIFIED ON THE PLANS.

There does not appear to be any Bored / Jacked pipes / utilities shown on the plans. Do any pipes / utilities need bored & jacked on this project?

A61: No pipes are proposed to be bored and jacked on this project.

Q62: There appears to be a Bid Item for Rock Excavation in the Schedule of Prices

There is also a Special Provision for Controlled Blasting that indicates that it is incidental to Regular Excavation

Please clarify if Rock Excavation will be paid for on this project and what the Bid Item is for and revise Special Provision if required

A62: Rock Excavation will be paid under bid item #6. Controlled Blasting Special Provision Measurement and pavement has been revised.

Q63: Bid Item 6 for Rock Excavation says Specification "ATTD" in the Schedule of Prices. There does not appear to be a Special Provision for Rock Excavation

A63: Rock excavation will be for roadway and structure excavation required removal of rock.

Q64: There are several places on the plan sheets that show "Controlled Fill". Neither the General provisions, Special Provisions nor the VDOT Specifications define "Controlled Fill". What do you mean by "Controlled Fill"?

A64: Controlled Fill for utilities will be in accordance with VDOT Road and Bridge Specifications and Loudoun Water Requirements.

Q65: There appears to be no Topsoil Item for this project as it relates to cut and fill slopes. Is this the intent?

In particular what about cut slopes in rock; is it the intent to seed the rock slopes.

A65: Topsoil has been added under bid item 93A.

END QUESTIONS AND ANSWERS