**Roanoke Valley Broadband Authority Project RFP for Engineering, Construction, and Materials**

9/17/2020

1. **INTRODUCTION**

Roanoke Valley Broadband Authority (RVBA) in partnership with Botetourt County is accepting proposals from qualified firms for the Construction, Engineering, and Materials of a middle mile fiber build. This project will consist of distribution fiber being built from the RVBA’s meet me point to a water tower on International Pkwy. The distribution fiber will also be built north and south on Etzler Rd and will interconnect with Central Botetourt Electric Co-Operative (CBEC) at Blacksburg Rd providing them diversity and redundancy to their network. From Etzler Rd there will be a lateral fiber built in support of FTTH (Fiber to the Home) services. The RVBA in cooperation with Last Mile Provider(s) is evaluating future utilization of the network to connect businesses and residents in the County of Botetourt.

**The proposed timeline for the project is as follows:**

ACTIVITY PLANNED DATE

RFP Published September 17, 2020

Questions Due September 24, 2020

Responses to Questions September 28, 2020

Responses Due October 1, 2020 at 1 PM EST

Competitive Negotiation Selection October 2 - 8, 2020

Engineering Complete October 15, 2020

Materials Delivered October 16 - 31, 2020

Construction Start October 19, 2020

Construction Complete December 15, 2020

1. **GUIDELINES**

Respondents may respond to any section or sections of the RFP - construction, engineering, or materials. Respondents must have separate proposals for each section of the RFP where a response is submitted. Please utilize the appropriate tab in the bid sheet (Attachment A) when responding. Respondents must place pricing in the bid sheet provided.

1. **CONSTRUCTION SCOPE**
2. **Purpose**: To solicit bids for the construction labor pricing of an approximate 7-mile underground fiber network build. To place a 2" conduit in the ground; pull fiber and splice, as designed. Please price the job for directional boring, but also provide trench pricing, in case there are opportunities to trench instead of directional boring. All work will be completed in accordance with State, County and City regulations and specifications. Please note VDOT safety and traffic requirements to insure all are followed safely and as required.
3. **Construction Timeline:**

The contractor selected will have approximately 8 weeks to complete ~7 miles of underground build in a rural area of Botetourt County, VA.

* Begin construction October 19, 2020
* Complete construction December 15, 2020

C. **Scope of Work:**

The following is a description of the construction scope with detailed tasks and approximate quantities. You will also find these tasks, quantities, and descriptions in the bid sheet.

* **Approximately 38,673’ of 2” directional bore (code UG-02) with an estimate of 10,000’ of rock adder (code UG-03)**
* Includes: Set up and tear down the bore rig. Placement of conduit at 30" depth or greater. Any depth less than 30" must be approved by the Project Manager.
* **Approximately 38,758 of pulling fiber into the conduit (code IFC-01)**
* Includes: Installation of fiber cable in conduit with extra mule tape.
* **Approximately 551 fusion splices (code F-01)**
* Includes: The preparatory work necessary to splice the fiber cables per specifications to include the installation of each enclosure. The fusion splicing and placement of the fibers in the splice enclosure.
* **28 small vaults (code UG-04) and 46 medium vaults (code UG-05)**
* Includes: All vaults will match surface level grade and contour of surface. All vaults must have a 4" base of Pea-Gravel. All vaults must be set on top of the base layer of pea gravel. All vaults must have a ground rod installed at time of vault installation. All conduit will enter vault 2" above the base layer and come in from the side no lower than 8 inches from bottom of base. All vaults will be placed with long vertical sides lined up along sidewalk, curb, street and/or with direction of main conduit run. All covers, lids, and/or top mounting bolts must be installed to pass final inspection. NO vault will pass inspection if it has been cracked, split, or have broken edges and/or missing parts. Contractor to provide accurate as-builts.
* **The installation of 9 Fiber Splice Enclosures (code F-02)**
* Includes: Installation of a new fiber cable enclosure for newly installed DF routes to include the preparation of any cables and express entries to be spliced or stored. The sealing and storage placement of the enclosure to permanent installation is also included in this line item.

**Other Items:**

* Price out all construction labor per the attached construction labor spreadsheet. You will note the lines with quantities filled in, to be priced. As mentioned above, even though the scope of work is planned and designed for directional boring; please also provide trench pricing
* This network must be completed and ready NLT December 15, 2020
* Reference Section VI for more detail on the design, planned route, and more

D. **What to include with response:**

* Please certify that you are licensed to perform construction work in the State, County and City
* Provide a list of similar projects you have completed within the last (3) years
* Also provide a list of any references you have from those projects
* Identify your plan to show how you will successfully complete this job in the required timeline; to include your project management team and your number of crews
  + Please indicate if you will be using internal crews or subcontracted crews
* Include bonding and insurance limitations

**IV. MATERIALS SCOPE**

1. **Purpose:** To solicit bids for the materials of the RVBA Botetourt County, VA middle mile build. The build is all underground. The selection of the materials provider will be largely based on the timeline for delivery as this build must be complete by December 15, 2020.
2. **Materials Timeline:** The timeline for materials will be dictated by the provider and largely dependent upon lead times of each material. Please keep the construction timeline in mind when bidding on this project. Construction needs to start October 19, 2020 and be completed by December 15, 2020.
3. **Scope of Work:**

Provide materials listed in the bid sheet (Attachment A). Ensure the materials are delivered on time, secured, and accounted for. Prepare a plan for material storage, material allocation, and reconciliation. Work with the General Contractor to devise a plan to pick up materials and return unused materials.

1. **What to include with response:**

* Pricing and lead times for each material listed in the bid sheet that is based upon a GIS detailed design as shown in the Botetourt Project Preliminary KMZ Design Attachment
* If the vendor recommends a substitute material in place of one listed in the Bid Sheet, please add it to the sheet with a proper description, price, and lead time.
* How the deadline for all materials received will be met- this is a requirement for the material vendor to be selected.
* Locations of nearest warehouses, distribution centers, storage yards, etc.
* Please indicate if you are a distributor or a manufacturer. If you are a distributor, please indicate which materials manufacturers you plan to use for the materials on the Bid Sheet.

**V. ENGINEERING**

1. **Purpose:** To solicit bids for the engineering of the RVBA Botetourt County, VA middle mile build. This includes the Project Management of the overall project, the creation of the Splice Schematics, detailed BOM, PDF Construction Prints, Permit Drawings, Traffic Control Plans, and As-built Posting. Please review the detailed schematic, the map-book and KMZ in Attachments B, C, and D to aid in your response.
2. **Engineering Timeline:** The engineering contractor will have a very tight window to turn over the deliverables for this project. The RVBA expects to select the vendor by October 8, 2020 through Competitive Negotiation and is requesting the detailed engineering be complete by October 15, 2020.
3. **Scope of Work:** The engineering vendor will be responsible for overseeing the buildout of the ~7 mile middle mile network. This vendor will act as the liaison between the materials provider, the general contractor, and RVBA. The deliverables for this project include splice schematics, a detailed BOM, PDF construction drawings, traffic control plans, and permit packages. The engineering vendor will also be responsible for implementing as-built drawings once construction is completed.
   1. The engineering pricing should be submitted on a per foot unit basis.
   2. The estimated total footage is 38,763 feet.
4. **What to include with response:**

* Qualifications of company
* Project history (at least 2) with references
* Sample construction drawings

**VI. SUBMISSION REQUIREMENTS**

Interested firms are invited to submit a proposal for one of the scopes of work detailed in this RFP. Firms should submit their responses by **1 PM EST on October 1, 2020**.

All questions and responses should be emailed to:

Ms. Olivia Dooley

Chief Financial Officer

Roanoke Valley Broadband Authority

odooley@highspeedroanoke.net

Respondents should place ALL pricing in the Bid Sheet and attach as an Excel File to the email response. A PDF document is preferred for the main RFP response document.

**VII. ATTACHMENTS**

**Attachment A: Bid Sheet**

**Attachment B: Botetourt Schematic View**

**Attachment C: Botetourt Project Map Book**

**Attachment D: Botetourt Project Preliminary KMZ Design**