Craig County

CBEC Fiber Phase 1

| Application ID: | 86509142021104341 |
|------------------------|---|
| Application Status: | Pending |
| Program Name: | Virginia Telecommunications Initiative 2022 |
| Organization Name: | Craig County |
| Organization Address: | |
| Profile Manager Name: | Dan Collins |
| Profile Manager Phone: | |
| Profile Manager Email: | hokiedc@lumos.net |
| | |
| Project Name: | CBEC Fiber Phase 1 |
| Project Contact Name: | Trace Bellassai |
| Project Contact Phone: | (540) 630-1625 |
| Project Contact Email: | tbellassai@craigcountyva.gov |
| Project Location: | PO Box 308 New Castle, VA 24127-0308 |
| Project Service Area: | Craig County |
| Total Requested Amoun | t: \$1,159,736.49 |

Required Annual Audit Status: No Current Audits Found

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| Budget Information: | | | |
|------------------------|----------------|---------------|----------------|
| Cost/Activity Category | DHCD Request | Other Funding | Total |
| Telecommunications | \$1,159,736.49 | \$386,608.78 | \$1,546,345.27 |
| Construction | \$1,159,736.49 | \$386,608.78 | \$1,546,345.27 |
| Total: | \$1,159,736.49 | \$386,608.78 | \$1,546,345.27 |
| | | | |

Budget Narrative:

Questions and Responses:

1. Project Description and Need

Describe why and how the project area(s) was selected. Describe the proposed geographic area including specific boundaries of the project area (e.g. street names, local and regional boundaries, etc.). Attach a copy of the map of your project area(s). Label map: Attachment 1 – Project Area Map.

Answer:

Project was selected as the first phase of a county wide fiber project. This was selected as the first phase for several reasons such as; 1. It will give us several "branches" going off in every direction of the county along the main roads, making for easier expansion of additional phases at a future time. 2. It will include approximately 15% of Craig Botetourt's current electrical customers in the county, representing a large population of the county for a first phase. 3. Craig Botetourt will be able to utilize existing facilities to equipment hosting, helping to reduce costs. 4. Much of the area included is served only by DSL offering 10/1 service.

Boundaries of the project:

The Fiber will come from the Mid Atlantic Broadband transport fiber into the office of Craig Botetourt at 26198 Craigs Creek Rd. It will then be ran to the Northeast and Southwest adjoining Craigs Creek Rd. It will continue Northeast to Virginia Mineral Springs, branching off onto Camp Mitchell Rd, reaching the end of the road, and branching off to all of the sub roads along Camp Mitchell and along Craigs Creek Rd. Southwest it will continue to SR311, branching off at SR638 and serving many residences in that area, as well as going up CC mountain Rd. At SR311 it will branch off to the west and continue along Paint Bank Rd to approximately Light House Baptist Church at 852 Paint Bank Rd, it will also continue continue South where it will reach some residences on Yoder St, Cumberland Gap Rd, and Meadow Brook Ln.

2. List existing providers in the proposed project area and the speeds offered. Please do not include satellite. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

Answer:

Existing providers for the area include TDS telecom DSL service (which covers most of the county) and Citizens Cable, which serves the proposed area along SR615 and SR311. TDS service varies in the proposed area, but in the majority of the proposed area, only provides 5/1 or 10/1 service. Citizens provides up to 100/10 service in some of their service area (along SR615) and some of their service area being limited to 50/5.

Craig County is currently in the process of conducting a Broadband Survey and Feasibility Study with Design Nine which includes information such as existing service and speeds.

Craig County

CBEC Fiber Phase 1

3. Describe if any areas near the project have received funding from federal grant programs, including but not limited to Connect America Funds II (CAF II), ACAM, ReConnect, Community Connect, and Rural Digital Opportunity Funds (RDOF). If there have been federal funds awarded near the project area(s), provide a map showing these areas, verifying the proposed project area does not conflict with these areas. Do not include areas awarded to satellite broadband providers. Label Map: Attachment 2 – Documentation on Federal Funding Area.

Answer:

TDS has received ACAM funding to provide DSL 10/1 (thus not meeting the FCC definition of broadband) in a small section of the proposed area on SR616 after Craigs Creek.

4. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF), excluding those awarded to satellite internet service providers, are included in the VATI application area. If RDOF areas awarded to terrestrial internet service providers are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 3 – RDOF Awarded Areas Form in VATI Area

Answer:

None of the proposed areas have received RDOF funding according to the FCC map located at https://www.fcc.gov/reports-research/maps/rdof-phase-i-dec-2020/

5. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 25/3 mbps and with less than 25% service overlap within the project area for wireless projects and 10% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 4 – Documentation Unserved Area VATI Criteria.

Answer:

We are aware of some overlap with Citizens Broadband serving 25/3 in the proposed area. Approximately 10% of the passings in this proposed phase 1 are able to get service with Citizens Cable. We are awaiting data from Design Nine to complete our Broadband Survey and Feasibility Study to have exact percentages of overlap. TDS service in the area is less than 25/3. Current overlap estimates were determined by analyzing map data obtained from the Commonwealth of Virginia Maxar Technologies USDA Farm Service Agency Data.

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Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 5 – Passings Form.
 a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions)

b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.

c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.

d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.

e. Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

A. 376 total passings.

Community Anchors: 12 (Elementary, Middle, and High School, School Board Office, Public Service Authority, Camp Mitchell Non-Profit Community Center, Craig Botetourt Electrical Cooperative Headquarters and electrical substation, Craig County Health Center - only Doctor available in the county, Craig County Dental Center, Market St Pharmacy only pharmacy in the county, Craig County Rescue Squad, and Food Country the counties only grocery store.) Non-residential: 2 Businesses: 3 Residential: 359

Residential: 35

B. N/A

C. 1. (PSA may require a trench, which the PSA has agreed to bear the cost of)

D. N/A

E. 338 (Determined by analyzing map data obtained from the Commonwealth of Virginia Maxar Technologies USDA Farm Service Agency Data in conjunction with Citizens Cable coverage area)

7. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Please describe if the private co-applicant will own or lease the radio mast, tower, or other vertical structure onto which the wireless infrastructure will be installed.

Answer:

N/A

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8. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 25/3 mbps. (up to 10 points)

Answer:

Speeds include packages between 50mbps symmetrical and 1gbps symmetrical and will utilize fiber. Packages will utilize shared bandwidth. CBEC is not currently offering 1gbps service, so they do not currently have pricing on 1gbps, but have announced their intention and ability to offer 1gbps service. Pricing on all other packages can be found in the attached document from CBEC.

9. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map. Label Map: Attachment 6 – Propagation Map Wireless Project.

Answer:

GPON (gigabit passive optical Network) fiber Network. The network topology shows how the Nokia GPON system interconnects to Mid-Atlantic broadband as the transport, back to Rich web which handles our DNS server and manages our IP addresses. The actual design is produced off of 3-GIS FIBER NETWORK ENGINEERING MODEL.

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CBEC Fiber Phase 1

10. Explain how the proposed project achieves universal broadband coverage for the locality or fits into a larger plan to achieve universal broadband coverage for the locality. If applicable, explain the remaining areas of need in the locality and a brief description of the plan to achieve universal broadband coverage. (up to 50 points)

Answer:

This is the first phase of a project to provide coverage to all current Craig Botetourt electrical customers, and eventually coverage to the entire county outside of the current electric coverage of Craig Botetourt. Many areas will still need to be served in future phases, which are currently being planned by Craig Botetourt and the Craig County Broadband Committee.

Areas that coverage will be expanded in future phases within the CBEC current electrical coverage area include: 1. Sinking Creek/Simmonsville - Includes State Route 42 to the county line, and surround sub roads such as Little Mountain Rd, Big Mountain Rd, North Side Rd, etc and all "branching" roads from these roads. This will likely be seperated out into 2-3 phases and will not be one single project.

2. Upper Craigs Creek - Defined as the area between State Route 311 and the county line along Upper Craigs Creek Rd (State Route 621), to include all sub roads off of SR621.

3. Johns Creek - Defined as the area from SR311 from Johns Creek Rd through the end of the road and all sub roads to include Dicks Creek Rd and all sub roads and old Waiteville Rd. This would likely be split into 2 phases.

4. Paint Bank Rd. - Defined as approximately 852 Paint Bank Rd into the town of Paint Bank on SR311.

5. Red Brush - Defined as the area along Peaceful Valley Rd and all sub roads between SR311 and Barbours Creek Rd.

6. Barbours Creek - Defined as the area along Barbours Creek Rd and all sub roads to the county line.

7. Fenwick Mines - Defined as the area from SR615 (Craigs Creek Rd) to Barbours Creek Rd along Peaceful Valley Rd, to include all sub roads.

8. Eastern Craig - Defined as the area between Virginia Mineral Springs, and the Botetourt County line along SR615 (Craigs Creek Rd) to include all major and minor sub roads up to the Botetourt Count line.

Areas that coverage will be expanded in future phases outside of CBEC electric coverage area include:

1. The "Craig City" area, defined as between 2nd St to 11th St approximately, and Commerve Ave to Pine Land and surrounding area, not including the path along Craigs Creek Rd. The Broadband Committee and Craig Botetourt have had discussions with representatives of the Public Service Authority about using the right of way they have for buried utilities. This would allow costs to be kept at a minimum in this area as it is currently served by AEP electrically, and CBEC would need to pay a pole attachment feed to AEP if running the fiber on the electric poles. The PSA is receptive to an agreement whereby CBEC would provide connections for smart water meters in exchange for allowing CBEC to use their right away free of charge. This is still in discussions with the PSA board and has not been finalized.

2. State route 311 south of New Castle, including sub roads such as Hickory Brook Dr, Broad Run Rd, Mountain Breeze Ln, Sycamore Crossing, Craig Creek Estates, etc. This area is currently served by AEP electrically and CBEC will need an agreement with AEP for pole attachments. CBEC is interested in exploring this option, but has not yet approached AEP.

3. Town of New Castle - This area is currently served by AEP electrically and CBEC will need an agreement with AEP for pole attachments. CBEC is interested in exploring this option, but has not yet approached AEP.

4. "Scratch Ankle" - Defined as the area from town limits to Wagener St to the South, to include the Meadow Brook Ln area, and from town limits to Cumberland Ave in the West. This area is currently served by AEP electrically and CBEC will need an agreement with AEP for pole attachments. CBEC is interested in exploring this option, but has not yet approached AEP.

These areas are still a rough estimate and these have just been divided up logically. Some of these areas may be combined into a single phase, while other may possibly be split into multiple phases based on funding opportunities, timelines, and material availability.

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11. Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 20 points)

Answer:

Preliminary engineering and material list are complete. Easements are associated with existing cooperative facilities. MOU is currently in a draft state.

12. Has the applicant or co-applicant received any VATI grants? If so, provide a list of these grants, with a detailed summary of the status of each.

Answer:

Craig County has not received any VATI grants. CBEC has received a VATI grant for a project in another locality (59811132018142709) This project has been completed and is actively serving customers.

13. Matching funds: Complete the funding sources table indicating the cash match and inkind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum20% match is required to be eligible for VATI, the private sector provider must provide10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding

Answer:

Total project costs \$1,546,435.27 Craig County Contribution \$100,000 CBEC Contribution \$286,608.78 VATI Request \$1,159,736.49

14. Leverage: Describe any leverage being provided by the applicant, co-applicant, and partner(s) in support of the proposed project. (up to 10 points)

Answer:

CBEC is leveraging existing facilities to host required equipment and servers, as well as existing electrical infrastructure for pole attachments. This will allow CBEC to incur no additional deployment costs for pole attachment fees or construction fees required for Point of Presence equipment. CBEC is also a member of the UUS and TEMA purchasing cooperatives which they can leverage to acquire reduced pricing.

Craig County

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15. Marketing: Describe the broadband adoption plan.

a. Explain how you plan to promote customer take rate, including marketing activities, outreach plan, and other actions to reach the identified serviceable units within the project area. Provide the anticipated take rate and describe the basis for the estimate. (up to 10 points)

b. Describe any digital literacy efforts to ensure residents and businesses in the proposed project area sufficiently utilize broadband. Please list any partnering organizations for digital literacy, such as the local library or cooperative extension office.

Answer:

In addition to the marketing efforts of CBEC, the Craig County Broadband Committee will utilize print media in the form of press releases, digital media in the form of our social media assets, and reporting in public session to all local relevant boards and committees to be disseminated to interested constituents.

CBEC marketing effors include

A. CBEC will use it's social media accounts, websites, direct mailers, door hanger info sheet, Cooperative Living Magazine, News media, etc.

B. The Virginia, Maryland, and Delaware Association of Broadband Cooperatives (VMDABC) outreach, National Rural Telecommunications Council (NRTC) tutorial video library and its publications.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities. Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality. Attachment 11 – Letters of Support.

Answer:

Name

Title

Project Role

Project Responsibilities

Jeff Ahearn

CEO, Craig-Botetourt Electric Cooperative

Project Manager CBEC

Overall manager of project

Mack McCaleb

Manager of Electric Distribution Services, Craig-Botetourt Electric Cooperative

Construction Coordinator

Coordinates construction of fiber facilities with Fujitsu

Tim Kaczmarski, CPA, CGMA

| Craig Co CBEC Fi | ounty ïber Phase 1 |
|---------------------|---|
| Di | irector of Business Services, Craig-Botetourt Electric Cooperative |
| Gı | rant Accounting |
| Tr | racks grant expenses and prepares reports |
| Ma | ary Ann Gober |
| Co | ooperative Services Associate, Craig-Botetourt Electric Cooperative |
| Ac | dministrative |
| Pe | erforms administrative tasks as necessary |
| Ar | nthony Bednarczyk |
| Br | roadband Executive Engagement Leader, Fujitsu |
| Co | onstruction Collaborator |
| Co | onstructs fiber facilities |
| Т. | B.D. |
| Co | onstruction Project Manager |
| Fu | ujitsu |
| Ma | anager of the construction/sub-contractors |
| Da | ave Keller |
| Vi | ice President of Sales & Business Development, Mid-Atlantic Broadband Communities Corporation |
| Co | onstruction Collaborator |
| Co | oordinates access to fiber backbone |
| Ma | ark Lea |
| Ri | ichWeb/Pixel Factory |
| Ac | ccess Lead |
| Co | oordinates internet access |
| | |

Craig County

CBEC Fiber Phase 1

17. Project Budget and Cost Appropriateness

Budget: Applicants must provide a detailed budget that outlines how the grant funds will be utilized, including an itemization of equipment, construction costs, and a justification of proposed expenses. If designating more than one service area in a single application, each service area must have delineated budget information. For wireless projects, please include delineated budget information by each tower. Expenses should be substantiated by clear cost estimates. Include copies of vendor quotes or documented cost estimates supporting the proposed budget. Label Attachments: Attachment 12 – Derivation of Costs; Attachment 13 - Documentation of Supporting Cost Estimates. (up to 10 points)

Answer:

Please see attached documents.

 The cost benefit index is comprised of state cost per unit passed. Individual cost benefit scores are calculated and averaged together to create a point scale for a composite score. Provide the following:
 a. Total VATI funding request

b. Number of serviceable units (up to 125 points)

Answer:

A. VATI Request \$1,159,736.49 B. 376

19. Commonwealth Priorities (Up to 40 points)

Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.

b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.

c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

Answer:

A. Counties only Elementary, Middle, and High School, School Board Office, Counties only Medical Center, Dental Center, Counties only grocery store, Public Service Authority, Camp Mitchell Non-Profit Community Center, Craig Botetourt Electrical Cooperative Headquarters and electrical substation, Craig County Rescue Squad, and Market St Pharmacy - Counties only pharmacy. Other business passings include local restaurants, and a machine shop.
B. Craig Botetourt Electric Cooperative will be the ISP and private partner for the project. We will also be partnering with the Public Service Authority for future phases.

C. The proposed project would cover moderate to high density section 8 housing.

Craig County

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20. Additional Information

Provide the two most recent Form 477 submitted to the FCC, or equivalent, as well as point, polygon, and, for wireless providers, RSSI shapefiles for the project area **in .zip file form**. With attachments 17 through 20, attach any other information that the applicant desires to include. Applicants are limited to four additional attachments.

Label Additional Attachments as: a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent

b. Attachment 15 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area

c. Attachment 16 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area

d. Attachment 17 – XXXXXXX

e. Attachment 18 – XXXXXXX

f. Attachment 19 – XXXXXXX

g. Attachment 20 – XXXXXXX

Answer:

See attachments

Attachments:

Map(s) of project area, including proposed infrastructure

NewCastle0029142021101611.pdf

Documentation of Federal Funding (CAF/ACAM/USDA/RDOF, etc...) in and/or near proposed project area.

ACAM914202115918.pdf

Passings Form (Use template provided)

VATIPassingsForm6162021345379142021102826.docx

Timeline/Project Management Plan

timeline9142021102900.pdf

| Craig County |
|---|
| CBEC Fiber Phase 1 |
| MOU/MOA between applicant/co-applicant (can be in draft form) |
| MOU159142021112821.docx |
| Funding Sources Table (Use template provided) |
| VATIFundingSourcesTable9242018933239142021103421.docx |
| Letters of Support |
| MGCraigCountyVATILetterofSupport9142021103456.pdf |
| Derivation of Cost/Project Budget (Use template provided) |
| CBECAmendmentXCraigCounty15M0810219142021103546.docx |
| Documentation of Supporting Cost Estimates |
| CostEstimatesJustification9142021103732.pdf |
| Two most recent Form 477 submitted to the FCC or equivalent |
| FCC477CBEC9142021103814.pdf |
| Optional |
| ISPBOM9142021103851.pdf |
| Optional |
| ReferenceArchitectureCBEC0902219142021104022.pdf |
| Ontional |
| REEONI INERdyOFEERINGS0142021104130 pdf |
| DELONEINEAUVOFFERINGS9142021104150.pul |



New Castle

| Addresses | 376 |
|-------------|---------|
| Poles | 450 |
| Overhead | 117,022 |
| Underground | 21,046 |

- Addresses
- Poles
- OH Electric Lines
- ------ UG Electric Lines





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The Virginia Broadband Availability Map seems to be someone inaccurate. It shows several areas as having Cable service, that the Broadband Committee knows for a fact do not have Cable service, such as the entire area coming off of Camp Mitchell Rd. We have spoken with the engineers of the cable provider, and they indeed do not have service in that area. Additionally, some areas show fiber, but this fiber is made available only to businesses.

We are currently conducting a study with Design Nine and will be able to provide more accurate data in the future on Unserved/Underserved areas. Some of the areas we know as unserved/underserved currently, we know from our close ties to the community, but we are working on being able to provide hard evidence of that knowledge.

2022 Virginia Telecommunication Initiative (VATI) Passing Form

| Type of Passings | Total Number of Passings in the Project Area ¹ | Passings in the Project Area, without Special Construction Costs Required ² | Passings with Special Construction Costs budgeted in the Application ³ | Number of Passings with Speeds at 10/1 or below in Project Area ⁴ | |
|-----------------------------|--|---|---|--|--|
| Residential | 359 | 358 | 1 | 337 | |
| Businesses (non-home based) | 3 | 3 | 0 | 0 | |
| Businesses (home-based) | 0 | 0 | 0 | 0 | |
| Community Anchors | 12 | 12 | 0 | 1 | |
| Non-residential | 2 | 2 | 0 | 0 | |
| Total | 376 | 376 | 1 | 338 | |

Note: The Total Number of Passings **<u>MUST</u>** be equal to the Residential, Business (non-home based), Non-residential and Community Anchors sum.

Note: Do not include passings in RDOF awarded areas that were awarded to the co-applicant; these passings should be included in the RDOF Passings Form. Passings included in this application in RDOF awarded areas that were not awarded to the co-applicant, unless successfully challenged, are considered unserved and should be counted as passings in this form.

¹The total number of structures in the project area that can receive service. See definition of passing below for more detail.

² The number of structures in the project area that will not require special construction costs to provide service to. These passings fall within the broadband provider's standard service connection drop length and do not require nonstandard equipment or any additional fees above normal service connection fees required to provide broadband access to a premise.

³The number of structures in the project area with all construction costs budgeted in the application. These passings will not require any additional special construction costs beyond those budgeted for in the VATI application.

⁴The number of structures in the project area that do not have access to internet at speeds of at least 10 mbps download and 1mbps upload.

Definitions

Passing – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

Business – An organization or entity that provides goods or services in order to generate profit. Businesses based in residential homes can count if they are a registered business (BPOL, LLC, etc.).

Community Anchor - schools, libraries, medical and health care providers, public safety entities, community colleges and other institutions of higher education, and other community support organizations and agencies that provide outreach, access, equipment, and support services to facilitate greater use of broadband service by vulnerable populations, including low-income, unemployed, and the aged.

Non-Residential Passing – places of worship, federal, state, or local facilities or other potential customers that are neither a residence, business or a community anchor as defined above.

CBEC Phase 5 Craig County (1.5M) Project Plan FNC

| | | г | | | 1 | | | | | | | | | | |
|-----------------------------------|----------------|----------------|---------|---------|-------|------------|------------|----------------|---------------|-------------------------------|------------------------|---------------------------|-------------------------------|-------------------------|-------------------------|
| Daryl Brown | | Project Start: | Mon, 10 | /4/2021 | | | | | | | | ,, | | | |
| | | Display Week: | 1 | | | Oct | ober | Nov | ember | December | January | February | March | April | May |
| TASK | ASSIGNED TO | PROGRESS | START | END | Weeks | #REF! #REF | ! #REF! #F | EF! #REF! #REF | ! #REF! #REF! | #REF! #REF! #REF! #REF! #REF! | #REF! #REF! #REF! #REF | ! #REF! #REF! #REF! #REF! | #REF! #REF! #REF! #REF! #REF! | #REF! #REF! #REF! #REF! | #REF! #REF! #REF! #REF! |
| Engineering | | | | | | | | | | | | | | | |
| Low Level Design | Name | 0% | 1 | 13 | 13 | | | | | | | | | | |
| Material Acquistion | | | | | | | | | | | | | | | |
| Long Lead Time Material | | 0% | 3 | 17 | 15 | | | | | | | | | | |
| Other Material | | 0% | 7 | 19 | 13 | | | | | | | | | | |
| Data Center | | | | | | | | | | | | | | | |
| Run New Cable | | 0% | 14 | 15 | 2 | | | | | | | | | | |
| Installation of Supporting Materi | al | 0% | 15 | 16 | 2 | | | | | | | | | | |
| Splicing | | 0% | 25 | 25 | 1 | | | | | | | | | | |
| Testing | | 0% | 26 | 26 | 1 | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | |
| LCP Prep Work | | 0% | 9 | 9 | 1 | | | | | | | | | | |
| Make Ready Work | | 0% | 9 | 12 | 4 | | | | | | | | | | |
| Fiber and MST Construction | | 0% | 12 | 24 | 13 | | | | | | | | | | |
| Splicing | | 0% | 24 | 26 | 3 | | | | | | | | | | |
| Testing | | 0% | 25 | 26 | 2 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Insert new rows ABOVE this one | | | | | | | | | | | | | | | |

MEMORANDUM OF UNDERSTANDING BETWEEN THE COUNTY OF CRAIG, VIRGINIA, AND CRAIG-BOTETOURT ELECTRIC COOPERATIVE FOR APPLYING FOR VIRGINIA TELLECOMMUNICATIONS INITIATIVE FUNDING FOR PROVIDING BROADBAND SERVICES

I. PARTIES AND PURPOSE

This Memorandum of Understanding (MOU) is made and entered into as of the _____ day of September 2021, by and between Craig County, Virginia (the "County"), a political subdivision of the Commonwealth of Virginia, and the Craig-Botetourt Electric Cooperative ("CBEC"), a Virginia consumer utility cooperative, for the purpose of creating a partnership to prepare and submit an application for grant funding through the Virginia Telecommunications Initiative (VATI) the Virginia Department of Housing and Community Development in an effort to expand and improve broadband services to the citizens of Craig County, Virginia. The County recognizes that in order to attain and maintain a high-quality level of broadband service to the citizens of Craig County, a close working relationship with the private internet providers is desirable and will be made possible in large part through state and federal grant funding opportunities. The County wishes to make certain funds available to make a grant to CBEC, for the purposes of incentivizing CBEC to expand its facilities in Craig County, increase jobs and employment, enhance learning opportunities for students, and otherwise expand the tax base of the County while simultaneously assisting in preserving public health in the midst of the COVID-19 crisis. II. SCOPE OF WORK

The County, and CBEC desire to cooperatively work together to prepare and apply for grant funding through the 2021 Virginia Telecommunications Initiative (VATI) Funding Program managed by the Virginia DHCD to provide fiber broadband service in several areas of the County by extending their existing fiber network. The application for funding anticipates coverage to be made available to approximately 376 households and businesses in the County that are currently unserved/underserved. Service is envisioned to be provided through the following infrastructure improvements:

- · Placement of approximately 21,046 linear feet of underground fiber optic cable.
- Placement of approximately 117,022 linear feet of aerial fiber optic cable.
- · Associated construction and make-ready work.

The County and CBEC agree to provide the necessary funding to construct the projects above to deliver internet service to the homes/businesses in these areas by providing minimum average internet speeds ranging from 50 Mbps/10 Mbps to 1 Gbps. The total cost of these projects is estimated at \$1,546,435.27 To obtain necessary project funding, the County agrees to complete a grant funding application, with assistance from CBEC through the DHCD VATI Funding Program requesting \$1,159,736.49 to be allocated to the above projects. The County will contribute not more than \$100,000 toward completion of the projects. CBEC agrees to provide the remaining project funding to complete the above projects.

The parties confirm that a detailed agreement shall be executed if funding is approved to outline all the obligations of the County, Authority, and CBEC and providing performance guarantees for service delivery and maintenance. If funding is approved from DHCD, the parties confirm and understand that CBEC will be responsible for providing the remaining of the funding necessary to complete the project for which DHCD funding was received.

| IN WITNESS WHEREOF, the parties have executed this Memorandum of Understanding on the day, month, and year indicated: |
|--|
| FOR Craig COUNTY, VIRGINIA: |
| Ву: |
| Robert Collins |
| County Administrator |
| COMMONWEALTH OF VIRGINIA |
| COUNTY OF CRAIG, to wit: |
| The foregoing instrument was acknowledged before me this day of September 2021 by |
| Robert Collins, on behalf of Craig County, Virginia. |
| My commission expires |
| Registration No |
| Approved as to form: |
| Ву: |
| Peter S. Lubeck |
| County Attorney |
| FOR CRAIG-BOTETOURT ELECTRIC COOPERATIVE: |
| Ву: |
| [name] |
| [title] |
| COMMONWEALTH OF VIRGINIA |
| COUNTY OF XXXXXXX, to wit: |
| The foregoing instrument was acknowledged before me this day of September 2021 by, on behalf of CBEC. |
| My commission expires |
| Registration No |

VATI FUNDING SOURCES TABLE

Please fill in the chart below with a description of the project funding source (local, federal, state, private, other), the amount from that source, the percentage of total project funding that source represents, and a description of the current status of the funds (pending, secured, etc.).

| Source | Amount | % | Status |
|----------------|-----------------|------|----------|
| REQUESTED VATI | \$ 1,159,736.49 | 75 | Pending |
| CBEC | \$ 286,608.78 | 18.5 | APPROVED |
| CRAIG COUNTY | \$ 100,000 | 6.5 | APPROVED |
| | \$ | | |
| | \$ | | |
| | \$ | | |
| | \$ | | |
| TOTAL | \$ 1,546,435.27 | 0 % | |



September 7, 2021

Mr. Trace Bellassai PO BOX 308, New Castle, VA 24127.

Dear Mr. Bellassai,

We are pleased to partner with Craig County to apply for funding to extend broadbandand VoIP service to unserved residents through the VATI program.

Craig-Botetourt Electric Cooperative is a member/customer owned electric distribution utility licensed to provide electric service in Virginia and West Virginia. We serve over 7,200 meters in Allegheny, Botetourt, Roanoke, Giles, Montgomery, and Craig counties in Virginia. We also serve Monroe County in West Virginia. We are one of twelve electric cooperatives in Virginia. Craig-Botetourt is the smallest with the lowest density measured in member/customers per mile of line. The Cooperative was chartered in August of 1936. It was created under the Rural Electrification Act for providing electric service to rural areas. We are not only overseen by the Virginia State Corporation Commission but also the West Virginia Public Service Commission. We are also administrated by the U.S. Department of Agriculture (USDA), the Rural Utilities Service (RUS). As of July 31,2021, the Cooperative had a total utility plant of \$47.9 million. We have annual electric distribution sales of around \$12 million. We currently borrow from three different organizations Rural Utilities Service, National Rural Utilities Cooperative Finance Corporation, and CoBank. The Cooperative is governed by a six-member elected board of directors and managed by a CEO who reports to the board. Craig-Botetourt Electric's wholly owned subsidiary, Craig-Botetourt Energy & Home Services, LLC, dba, Bee Online Advantage, is our broadband and VoIP service provider.

Please accept this letter, for our financial statement documentation.

Sincerely,

Jeff Ahearn CEO, Craig-Botetourt Electric Cooperative & Bee Online Advantage

> PHONE: (540) 864-5121 TOLL FREE: (800) 760-2232 FAX: (540) 283-0585

CRAIG-BOTETOURT ELECTRIC COOPERATIVE IS AT EQUAL OPPORTUNITY PROVIDER AND EMPLOYER

2202 RAYBURN HOUSE OFFICE BUILDING WASHINGTON, DC 20515 (202) 225-3861 PHONE (202) 225-0076 FAX

> 323 WEST MAIN STREET ABINGDON, VA 24210 (276) 525-1405 PHONE (276) 525-1444 FAX

17 WEST MAIN STREET CHRISTIANSBURG, VA 24073 (540) 381-5671 PHONE (540) 381-5675 FAX

H. MORGAN GRIFFITH 9TH DISTRICT, VIRGINIA

COMMITTEE ON ENERGY AND COMMERCE SUBCOMMITTEES; ENERGY HEALTH

OVERSIGHT AND INVESTIGATIONS

www.morgangriffith.house.gov



Congress of the United States House of Representatives Mashington, **DC** 20515–4609

September 14, 2021

Dr. Tamarah Holmes Director, DHCD Office of Broadband Virginia Department of Housing and Community Development 600 East Main Street, Suite 300 Richmond, VA 23219-2430

Dear Dr. Holmes,

I am writing to express my interest in the grant application for Virginia Telecommunication Initiative (VATI) submitted by Craig County in New Castle VA.

In preparing this grant application, Craig County cited many factors contributing to the need for this funding in my congressional district. I ask that you give this application your most thoughtful and serious consideration. If there is any additional information that my office can provide, please contact Cody Mumpower at my Abingdon office at (276) 525-1405.

I would very much appreciate it if you would acknowledge receipt of this letter and keep me apprised of your action regarding this application when review is complete. You should respond to Craig County in care of my Abingdon office at (276) 525-1405 by phone or by mail to 323 W. Main Street, Abingdon, Virginia 24210.

Thank you for your time and attention to this matter. I look forward to hearing from you. I remain

ncerely yours,

H. MOROAN GRIFFITH Member of Congress

Amendment Number TBD

То

Design, Engineering, Construction And Maintenance Agreement

Between

Craig-Botetourt Electric Cooperative

And

Fujitsu Network Communications, Inc.

This Amendment No. **TBD** ("Amendment") to the Design, Engineering, Construction and Maintenance Agreement dated June 18, 2019, (the "Agreement"), is between Fujitsu Network Communications, Inc., a California corporation, with offices at 2801 Telecom Parkway, Richardson, Texas 75082 ("FNC") and Craig-Botetourt Electric Cooperative, a Virginia corporation, having an office and principal place of business at 26198 Craigs Creek Road, PO Box 265, New Castle, VA 24127 ("Customer"), each a "Party" and collectively referred to as the "Parties". Capitalized terms used but not defined herein shall have the meanings as set forth in the Agreement. Unless otherwise stated herein, this Amendment shall take effect upon execution by the last signing party, (the "Amendment TBD Effective Date")

WHEREAS, the Parties wish to amend the Agreement to add the design, engineering and construction services to build the Craig County BroadBand (BB) path extension to the Customer's fiber network footprint which includes a 26.15 Mile broadband fiber buildout passing 376 potential subscriber addresses ("Craig County BB Path").

WHEREAS, the Parties wish to amend the Agreement to update quantities and pricing for the Craig County BB Path.

NOW, THEREFORE, in consideration of the above premises and the mutual promises and conditions set forth herein, receipt of which is hereby acknowledged, and intending to be legally bound, the Parties agree to modify the Agreement as follows:

- 1. The attached Craig County Boundary map is hereby added as **Attachment TBD** of **Exhibit 1** and illustrates the Craig county BB Path.
- The Parties hereby agree to extend the Services defined in Exhibit 1; Design and Engineering Services, Exhibit
 Program Management Office and Exhibit 3; Construction Services to include the Craig County BB Path. The number of potential addresses the engineering design and construction will pass is 376. Pricing for such Services to the Craig County BB Path are provided in Exhibit TBD.
- 3. **Exhibit TBD**; Scope of Work for Craig County BB Path is hereby added to the Agreement.
- 4. BOND: Add a new Article **TBD** as follows:

"Contractor Bond. For an Agreement in excess of \$100,000, FNC agrees to furnish a Contractor's Bond in triplicate in the form of **Exhibit 6** hereto with sureties listed by the United States Treasury Department as Acceptable Sureties, in a penal sum not less than **\$1,420,000**."

5. This Amendment is an integral part of the Agreement. If there are any inconsistencies between a specific term or condition of this Amendment and a specific term or condition of the Agreement, the specific term or condition of this Amendment shall control.

Except as amended hereby, the Agreement shall continue in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be executed by their duly authorized representatives as of the date set forth below.

| Fujitsu Network Communications, Inc. 2801 Telecom Parkway, Richardson, TX 75082 Fax Number: 972-479-2992 (Legal Dept.) | Craig-Botetourt Electric Cooperative 26198 Craigs Creek Road, PO Box 265, New Castle, VA 24127 Fax Number: |
|---|---|
| Ву: | Ву: |
| Print Name: | Print Name: |
| Title: | Title: |
| Date: | Date: |

Attachment TBD to Exhibit 1



Estimated breakout of the addresses within the Craig county BB path footprint:

| Name of Boundary | # Residential | Total | # of ONTs |
|--------------------------|---------------|-----------|-----------------|
| | addresses | Addresses | (50% take rate) |
| Craig County Mainline | 376 | 376 | 188 |

Price Assumptions

Pricing includes ONT devices and materials

Construction Assumptions

138,068 feet (26.15 Miles) construction path footage

450 poles to attach

Total of 188 drops with a maximum of 500 feet

Make Ready is not included: Assumed CBEC will complete as required.

Assumes FNC will supply ONTs and drop material, CBEC will supply/perform drop installation labor for all drops.

EXHIBIT TBD

Craig County BB Path

1. INTRODUCTION

This **Exhibit TBD**; describes the updated unit pricing utilized to deliver to the Customer (also "CBEC") in support of Customer's Craig County BB Path project. The success of this SOW relies heavily upon key Customer employees and/or Customer advisor involvement as part of the engagement team.

2. TERM

The term of this **Exhibit TBD** begins from the **Amendment TBD Effective Date** and continues for 1 year or until the project is completed by FNC, whichever occurs later.

3. ACCEPTANCE

FNC will provide a Job Completion Notice ("JCN") monthly to Customer for Acceptance of the Services completed during the previous month. Customer will return the signed JCN to FNC or notify FNC of its rejection of a Deliverable within ten (10) days after FNC delivers the JCN to Customer. Any Deliverable not rejected within the 10-day period will be deemed accepted by Customer.

4. SCHEDULE

FNC and Customer will develop a mutually agreed detailed schedule for the Customer's services as defined in this SOW following receipt of Customer's purchase order. It is anticipated that the build will take approximately 5 months to complete depending upon moratoriums and material availability.

5. PRICING

FNC's fixed unit price for the Design and Engineering Services, Program Management Office, Construction and Additional Services for the Craig County BB Path project are provided in **Table 6-1** below. FNC will invoice Customer upon receipt of a signed JCN. The payment terms are defined in **Section 6** of the Agreement. The Work Unit quantities are budgetary estimates and are subject to change based on actual conditions found and on the duration of the project.

| Table 6-1 – Craig County Pricing | | | | | | | | | | |
|----------------------------------|--|--------------------------------|------|---------------------|------------------------|--------------|--------------|--|--|--|
| Unit ID | Description | Short Description | Unit | Labor Unit Price | Material Unit Price | Qty Units | Total Price | | | |
| Program Manage | Program Management | | | | | | | | | |
| PM-18-PMO1 | Program Management– Full project management, construction management and engineering services | РМО | MON | \$35,507.84 | | 5 | \$177,539.19 | | | |
| PM-18-BOND | Performance Bond | Bond | EA | \$16,379.51 | | 1 | \$16,379.51 | | | |
| OSP Engineering | | | | | | | | | | |
| TBD | includes all design detail to engineer a backbone, middle mile, or fiber to the home network for an assigned area in order to produce a constructible plant which may include, but not limited to updating high level design with as-found conditions from the field engineering and make ready engineering. Identify permitting required based on high level design, perform any environmental, historical or soil | ENG-LLD- Detailed design | FT | \$0.15 | | 138068 | \$21,241.23 | | | |

| Table 6-1 – Craig County Pricing | | | | | | | |
|---|--|--|---------|---------------------|------------------------|--------------|--------------|
| Unit ID | Description | Short Description | Unit | Labor Unit Price | Material Unit Price | Qty Units | Total Price |
| | testing if required. Final design to include BOM, Splicing details, construction details, and all internal quality control is complete and the design is ready to hand over to construction teams for review. | | | | | | |
| TBD | Standard Permitting - all efforts associated with preparing permit applications for the majority ROW owner contained within the project, typically a city or county where the fiber will be deployed: UG permits, temporary use of ROW, cabinet placement, excavation for vaults, placement or pole changeouts, or any permit required by legal body with jurisdiction in the area | ENG-SP- Standard Permitting and ROW | FT | \$0.18 | | 4209 | \$777.05 |
| OSPE-11-1109 | As-builting - redline conversion to GIS format, as-built validation, updated splice schematics, updated splicing sheets | As Builts | FT | \$0.09 | | 138068 | \$12,744.74 |
| ISP Equipment | | • | | | | L | |
| EQP-11-OLT | OLT 5 Chassis / Line Cards 7360 ISAM FX-8 Shelf (5) GPON SFP OLT (I-temp) Class B+, (5) GPON SFP C+ (I-temp) OLT | OLT Equipment | EA | | \$28,489.33 | 1 | \$28,489.33 |
| TBD | Maintenance and RTU – 5 years (support + repair/return) 7360 ISAM FX-8 shelf (18) GPON SFP (RTU License) (188) ONTs | Maint/RTU | EA | | \$19,107.15 | 1 | \$19,107.15 |
| EFI-11-6101 | Test and turn-up of OLT Cards | Test and Turn-up | EA | \$15,565.29 | | 1 | \$15,565.29 |
| NDI-CONSULT | Professional Services 20-hour block | Prof Svcs | EA | \$7,684.62 | | 4 | \$30,738.46 |
| Drop Installation | 1 | | | | | • | |
| EQP-11-ONT | Residential Gateways | ONT | EA | | \$180.00 | 188 | \$33,840.00 |
| TBD | DROP Installation** | ONT | EA | | \$306.12 | 188 | \$57,551.13 |
| OSP Construction | on | | | | | | |
| OSP Construction | on - Aerial Construction | 1 | | | | F | 1 |
| OSPI-1-01003(1) | Installation of 2 inch riser to facilitate fiber optic cables making the transition from aerial to underground or installation of riser | Installation of 2 inch Riser | EA | \$69.23 | \$138.46 | 45 | \$9,346.15 |
| OSPI-6- 06007(144) | Placement of all dielectric self- supporting fiber optic cable (ADSS) (144 count) aerial along with storage/risers with normal access to pole with equipment. | Place 144 ADSS FOC Aerial, Normal Access | FT | \$1.92 | \$1.00 | 128724 | \$376,270.15 |
| TBD | Tree Trimming | Tree Trimming | FT | \$3.62 | | 3511 | \$12,693.62 |
| OSP Construction - Underground Construction | | | | | | | |
| OSPI-4a- 04004(L) | Install 36" x 48" vault according to manufactures specifications and will placed flush with the ground. Standard vault - rated for pedestrian traffic | Install Large Vault - Standard | EA | \$1,076.92 | \$780.94 | 32 | \$59,451.51 |

| Table 6-1 – Craig County Pricing | | | | | | | |
|----------------------------------|---|--|----------------|---------------------|------------------------|--------------|--------------|
| Unit ID | Description | Short Description | Unit | Labor Unit Price | Material Unit Price | Qty Units | Total Price |
| OSPI-4a- 04004(S) | Install 20" x 26" vault according to manufactures specifications and will placed flush with the ground. Standard vault - rated for pedestrian traffic | Install Small Vault - Standard | EA | \$384.62 | \$299.33 | 21 | \$14,362.88 |
| OSPI-8-08001 | Includes the placement cabinet on existing XL vault along with all hardware need for securing the cabinet to the lid. LCP cabinet will be installed per manufacturer's specifications. | Install LCP Cabinet on a XL vault | EA | \$2,307.69 | \$12,144.07 | 1 | \$14,451.76 |
| TBD | Directional drilling Standard Conditions | Drilling | FT | \$26.15 | \$0.69 | 2105 | \$56,514.32 |
| TBD | BFO(XX)T-Trench standard conditions | Trenching | FT | \$10.00 | \$2.14 | 18941 | \$229,960.66 |
| TBD | Pulling fiber | Fiber Pull | FT | \$1.46 | \$1.43 | 23151 | \$66,878.62 |
| TBD | Placement of OLT integrated cabinet with FDH | OLT Place | EA | \$4,307.69 | \$66,153.85 | 1 | \$70,461.54 |
| OSPI-4a-04400 | Rock Adder | Rock Adder | FT | \$49.23 | | 842 | \$41,452.31 |
| OSP Construction | on - Fiber Splicing and Testing | | | | | | |
| OSPI-7-07001(D) | Preparation of large sized splice enclosure used for large transition splicing (more than 96 splices). | Prep Small Splice Enclosure | EA | \$284.62 | \$290.14 | 31 | \$17,817.34 |
| OSPI-7-07001(D) | Preparation of large sized splice enclosure used for large transition splicing (more than 96 splices). | Prep Large Splice Enclosure | EA | \$461.54 | \$461.54 | \$7.00 | \$6,461.54 |
| OSPI-7-07004 | Preparation of fiber cables into the LCP cabinet, along with the buffer tubes and fibers into the splice trays. | Prep of LCP Cabinet and Fibers | EA | \$538.46 | \$7,692.31 | 8 | \$65,846.15 |
| OSPI-7-07005 | Preparation of fiber cables into a rack mount fiber termination panel. | Prep Fiber Termination Panel | EA | \$307.69 | \$2,307.69 | 8 | \$20,923.08 |
| OSPI-9-09001 | Fusion splicing for up to 48 fibers at 1 location. Price per splice. | Splice 1 – 48 fibers | EA | \$46.15 | \$0.49 | 564 | \$26,308.43 |
| OSPI-9-09002 | Fusion splicing for 49 to 144 fibers at 1 location. Price per splice. | Splice 49 – 144 fibers | EA | \$38.46 | \$0.49 | 282 | \$10,984.98 |
| OSPI-9-09003 | Fusion splicing for 145 to 432 fibers at 1 location. Price per splice. | Splice 145 – 432 Fibers | EA | \$30.77 | \$0.49 | 346 | \$10,816.49 |
| TBD | MST Materials Cost | Material | EA | | \$592.73 | 16 | \$9,483.73 |
| OSPI-10-10002 | Perform power meter light source test on a fiber | Test Fiber Power Meter and Light Source | EA | \$13.85 | | 865 | \$11,976.92 |
| | ESTIMATED TOTA | GRAND | \$1,546,435.27 | | | | |



September 7, 2021

Mr. Trace Bellassai PO BOX 308, New Castle, VA 24127.

Dear Mr. Bellassai,

In reviewing the VATI grant application it has come to our attention that documents are required to verify or back up our cost estimates for the chosen project area(s).

As a Electric cooperative, Craig-Botetourt Electric uses internal employees and contracted resources to complete and perform the proposed works as outlined in this grant application. Craig-Botetourt Electric are members of two statewide procurement cooperatives (UUS and TEMA) and can leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed.

It is our hope that this letter will be sufficient in demonstrating to the review boardthat our company has done its due diligence to negotiate rates that reflect a reasonable use of resources both for the planning and completion of these last mileprojects.

Please accept this letter as an explanation for the absence of attached documentation of supporting cost estimates as requested in the VATI grant application

Sincerely,

Jeff Ahearn CEO, Craig-Botetourt Electric Cooperative & Bee Online Advantage

PHONE: (540) 864-5121 TOLL FREE: (800) 760-2232 FAX: (540) 283-0585

CRAIG-BOTETOURT ELECTRIC COOPERATIVE IS AT EQUAL OPPORTUNITY PROVIDER AND EMPLOYER



September 7, 2021

Mr. Trace Bellassai PO BOX 308, New Castle, VA 24127.

Dear Mr. Bellassai,

We are currently filing our first FCC 477 form. We connected our first customer in January of 2021 for the first VATI project (application #59811132018142709). The filing date for the first half of the 2021 has been extended due to Covid-19. We should have all documentation filed by the end of September 2021.

Please accept this letter, in leu of our FCC 477 filings.

Sincerely, file m D

Jeff Ahearn CEO, Craig-Botetourt Electric Cooperative & Bee Online Advantage

PHONE: (540) 864-5121 TOLL FREE: (800) 760-2232 FAX: (540) 283-0585

CRAIG-BOTETOURT ELECTRIC COOPERATIVE IS AT EQUAL OPPORTUNITY PROVIDER AND EMPLOYER

CBEC Reduced Craig County ISP BOM

| | Customer: CBEC | 2 | | | | | |
|------------------------------|---------------------------|-------------------|--------|------------|--|----------------|--|
| Total | TR | 188 50% | | | | 376 | |
| Nokia | Nokia FN Equipment Detail | | | | | | |
| Subs | | 188 | | | | | |
| Split | | 32 | | | | | |
| FN 7360 Production Equipment | | | | | | | |
| | | | | | | | |
| | | | Ch | assis Kits | | | |
| | | Descr | iption | | | Total Quantity | |

| Layer3/MPLS Redundant FX-4 Starter Kit (100G NT link capable). Each kit | 1 |
|--|---|
| 7360 ISAM FX-8 shelf (ANSI variant), 48V only, incl. BFAN unit | 1 |
| ISAM FX-4 Vertical mounting kit for 19" or 23" rack | 1 |
| 7360 ISAM FX-4 Fiber Routing Kit | 1 |
| Qty (2) 7360 ISAM FX 1280Gbps NT with network clock synchronization capabilities, without SFPs (ANSI variant), without support for Packet Capture | 2 |
| Filler Panel for NTIO and LT, no pre-cabling | 8 |
| Drip Tray for 23" Rack | 1 |
| ISAM FX 16port GPON Line board | 1 |
| ISAM FD/FX GPON SFP OLT (I-temp) Class B+ | 1 |
| SFP+ Pluggable Optical Module, 10GE LR SM 1310nm, -40°C to +85°C, Duplex LC connector, 10km (11dB) | 2 |

| Line Carde and Ontice | | | | | | |
|---|----------------|--|--|--|--|--|
| Description | Total Quantity | | | | | |
| Description | Total Quality | | | | | |
| ISAM FX 16port GPON Line board | 0 | | | | | |
| ISAM FD/FX GPON SFP OLT (I-temp) Class B+ | 5 | | | | | |
| GPON SFP C+ (I-temp) OLT | 5 | | | | | |
| SFP+ Pluggable Optical Module, 10GE SR MM 850nm, -40°C to +85°C, Duplex LC connector. 0.3km (5dB) | | | | | | |
| SFP+ Pluggable Optical Module, 10GE LR SM 1310nm, -40°C to +85°C, Duplex LC connector, 10km (11dB) | 2 | | | | | |
| SFP+ Pluggable Optical Module, 10GE ER SM 1550nm, -40°C to +85°C, Duplex LC connector 40km (11dB) | 2 | | | | | |
| SFP+ Pluggable Optical Module, 10GE ZR SM 1550nm, -40°C to +85°C, Duplex LC connector, 80km (24dB) 100G BASE-ER4 CFP4 C-temp SMF 40km 100G BASE-LR4 CFP4 C-temp SMF 10km | 4 | | | | | |

Description

ONTs

Total Quantity

188

Wi-Fi GPON residential gateway,2xPOTS,4xGE UNI,3x3 11n+4x4 11ac,US plug

| Maintenance | | | | | | |
|---|----------|--|--|--|--|--|
| Description | Quantity | | | | | |
| Muni/IOC Remote Technical Support and Repair for Return - YR1 | 1 | | | | | |
| Muni/IOC Remote Technical Support and Repair for Return - YR2 | 1 | | | | | |
| Muni/IOC Remote Technical Support and Repair for Return - YR3 | 1 | | | | | |
| Muni/IOC Remote Technical Support and Repair for Return - YR4 | 1 | | | | | |
| Muni/IOC Remote Technical Support and Repair for Return - YR5 | 1 | | | | | |
| SSP-AMS, 7360, 7360/7368 per line RTU Year 1 | 188 | | | | | |
| SSP-AMS, 7360, 7360/7368 per line RTU Year 2 | 188 | | | | | |
| SSP-AMS, 7360, 7360/7368 per line RTU Year 3 | 188 | | | | | |
| SSP-AMS, 7360, 7360/7368 per line RTU Year 4 | 188 | | | | | |
| SSP-AMS, 7360, 7360/7368 per line RTU Year 5 | 188 | | | | | |



<<<< Note: For subscriber distances greater than 10km and less than 20km from the OLT, GPON C+ SFP optics would be used (spares is 5 C+ optics)

Keep LR and/or ZR (2 each) for connecting to 2nd hut location - Future use.>>> Uplink to the Stone cold substation - to the Richweb Aggregation switch 23 KM distance to Stone cold from OLT 3 location , ER optics to be used

Keep LR and/or ZR (2 each) for connecting to 2nd hut location - Future use.>>> Uplink to the Stone cold substation - to the Richweb Aggregation switch

Private Broadband - CBEC



A typical FTTx Architecture



• The AMS server which is installed in Richweb premises will manage all OLT's via in-band connections.

Internet



Ultra Package Starts at \$149.95

Wifi Included! The Ultra Package offers speeds up to 300/300 Mbps. Stream multiple high-definition movies simultaneously, as well as Netflix, and online gaming, all at the same time! **For a Limited Time Only** Receive a FREE Roku Premiere When You Sign Up For This Package Access to 500,000 movies & TV episodes from 5,000+ streaming channels.



Super Package Starts at \$129.95

Wifi Included!

The Super Package offers speeds up to 200/200 Mbps. Good for multi-device HD streaming, work from home, download HD movies, upload and transfer data, and online gaming. **For a Limited Time Only** Receive a FREE Roku Premiere When You Sign Up For This Package Access to 500,000 movies & TV episodes from 5,000+ streaming channels.



Fast Package Starts at \$74.95

Wifi Included! The Fast Package offers speeds up to 100/100 Mbps. Great for students or families who enjoy streaming video and downloading music. This package allows the bandwidth needed to limit buffering and long wait times for your downloads.



Basic Package Starts at \$59.95

Wifi Included! The Basic Internet Package offers speeds up to 50/50 Mbps.

This is an Entry Level package that is good for email, web surfing, streaming small videos and basic web surfing. May experience lag or buffering if streaming to multiple devices simultaneously.



Commercial 50 Mbps Starts at \$89.95

Wifi Included! This internet Package offers speeds up to 50/50 Mbs.



Commercial 100 Mbps Starts at \$129.95

Wifi Included! This internet package offers speeds up to 100/100 Mbs.



Commercial 200 Mbps Starts at \$239.95

Wifi Included! This internet package offers speeds up to 200/200 Mbs.



Commercial 300 Mbps Starts at \$399.95

Wifi Included! This internet package offers speeds up to 300/300 Mbs.

Internet Add-Ons



Telephone



Phone Service Only Starts at \$39.95

Phone Service Only For Commercial Phone Service, contact Customer Service for Pricing



Phone Service added to Basic, Fast or Super Package Starts at \$29.95

For Commercial Phone Service, contact Customer Service for Pricing



Phone Service added to Ultra Package Starts at \$24.95

BEST DEAL BUNDLE For Commercial Phone Service, contact Customer Service for Pricing



Commercial Phone Service

For Commercial Phone Service, contact Customer Service for Pricing