

# Application to DHCD Submitted through CAMS

Alleghany County

Alleghany County Crows-Hematite Broadband Initiative 2024

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**Application ID:** 107411222023135047  
**Application Status:** Pending  
**Program Name:** Virginia Telecommunication Initiative 2024  
**Organization Name:** Alleghany County  
**Organization Address:** 9212 Winterberry Avenue  
Covington, VA 24426-6251  
**Profile Manager Name:** Melissa Munsey  
**Profile Manager Phone:** (540) 863-6600  
**Profile Manager Email:** mmunsey@co.alleghany.va.us

**Project Name:** Alleghany County Crows-Hematite Broadband Initiative 2024  
**Project Contact Name:** Reid Walters  
**Project Contact Phone:** (540) 863-6600  
**Project Contact Email:** rwalters@co.alleghany.va.us  
**Project Location:** 9212 WINTERBERRY AVE  
COVINGTON, VA 24426-6251  
**Project Service Area:** Alleghany County

**Total Requested Amount:** \$2,332,353.00

**Required Annual Audit Status:** Accepted

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## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Telecommunications</b>	<b>\$2,332,353.00</b>	<b>\$1,019,580.00</b>	<b>\$3,351,933.00</b>
Administration	\$0.00	\$20,000.00	\$20,000.00
Construction	\$2,332,353.00	\$999,580.00	\$3,331,933.00
<b>Total:</b>	<b>\$2,332,353.00</b>	<b>\$1,019,580.00</b>	<b>\$3,351,933.00</b>

### Budget Narrative:

This project would provide universal broadband coverage to Alleghany County. The application covers approximately 40 square miles in the Crows-Hematite area of the County which is the only remaining area not served. The area contains 370 unserved passings for a total project cost of \$3,351,933.

## Questions and Responses:

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## 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:

In November 2021, Lumos Networks completed a critical project that provides 100% gigabit fiber internet speed to those in the company's service area in the Alleghany Highlands. The area in the Western part of Alleghany County, known as Crows & Hematite epitomizes "the digital divide." This area of the County is not covered by the Lumos service area, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. This area of the County has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations. Frontier Communications of West Virginia is not consistent with service and maintenance. The landlines are often inoperable. There have been attempts to work with Frontier on these issues, with no avail. County residents are often left without means of communication for business, pleasure, education, and most-importantly emergency services.

- Residents are often **without** the ability to call for Emergency Services, when needed.
- Residents lack access to internet services, making today's connected world out of their reach.
- Students who need internet access have to devise alternate methods in order to complete assignments and do proper research, outside of their homes. The school system reports approximately 35 students in the project area with at least two additional students who are currently educated at home.

Significant economic development projects are occurring in Alleghany County that warrant the need for universal broadband coverage. Green Thumb Industries, LLC is currently conducting a manufacturing relocation into an existing industrial building in Alleghany County. They are currently operating manufacturing facilities in Low Moor and Abingdon. There are currently 40 employees. Within 5 years, GTI will create over 200 additional above median income jobs and will be manufacturing exclusively in Alleghany County.

The Covington-Alleghany Industrial Development Authority is in the process of developing an industrial pad ready site in Alleghany County. The site is 104 continuous acres. There is a joint revenue agreement between the City of Covington and Alleghany County associated with this project and the two localities have secured \$6,000,000 in financing for site preparation. This past year, the Virginia Economic Development Partnership became a third partner in this project, allocating \$3.29 million for the site development. Up to a 750,000-sf building can be built on the site.

Alleghany County is working with Craig-Botetourt Electric Cooperative (CBEC) to devise a plan for installing permanent broadband infrastructure that would offer stable and consistent means for communication. With the current economic development activities occurring in the area, stable and consistent communication is a need.

Attachment 1 shows the Project Area Map which is approximately 40 square miles. The blue marker identifies the last address that Lumos serves in the County. The red, blue, and green lines show CBEC's existing powerline routes. The Alleghany County FTTX project will complete the "universal coverage" in the County. This project will start where Lumos' project and service area ends.

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2. List existing providers in the proposed project area and the speeds offered. Describe your outreach efforts to identify existing providers and how this information was compiled with source(s).

**Answer:**

Frontier Communications offers DSL internet connection within the project area. It is widely known that the current DSL does not offer a consistent and reliable bandwidth of 25/3 . The bandwidth typically registers 10-15/1. We have confirmed this through customer contacts, field audits, and through documentation the County has obtained dating from the late 1990's to present.

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. Label Map: Attachment 2 – Documentation on Federal Funding Area.

**Answer:**

There are no CAF II awarded CBG's in the project area. There are no identified RDOF CBG in the project area. Craig-Botetourt Electric Cooperative (CBEC) does not have any RDOF or CAF II in the project area.

4. 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 100/20 Mbps and with less than 25% service overlap within the project area for wireless projects and 20% 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 3 – Documentation Unserved Area VATI Criteria.

**Answer:**

When Lumos conducted an assessment and moved forward with a build-out of broadband throughout much of Alleghany County, the proposed project area was included in the assessment. Installed by Verizon, a section of copper DSL exists in the vicinity of highways 311 and 159. The copper line runs parallel to the highways and with the limited capacity of DSL, properties located more than 15,000 feet from the infrastructure cannot connect to this network. The 50 plus year old Verizon cable is plagued with issues (i.e., moisture egression, noisy lines due to this moisture, etc.).

Frontier advertises 25/3 DSL service for this area. This is what the customer is paying for; however, this service is well below the advertised 25/3 product. Craig-Botetourt Electric Cooperative (CBEC) is a customer of their DSL service, less than 2,500 feet from their remote switch. They see service levels at <10 mbps download and <1 mbps upload. The same service levels have been verified by other customers in the proposed project area. This is the only portion of DSL that exists in the project area and it is intermittent at best. The entire project area has speeds below 100/20 Megabits per second.

See Attachment 3 showing map with the lack of coverage in this project area.

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5. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 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 4 – Passings Form.
- Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
  - 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.
  - 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.
  - 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.
  - Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

**Answer:**

- 356 residential passings  
4 church passings (non-residential)  
1 fire/rescue station building (community anchor)  
1 business passings  
10 home-based business passings
  - N/A
  - N/A
  - N/A
  - 370
6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas 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 5 – RDOF Awarded Areas Form in VATI Area

**Answer:**

To our knowledge, there are no identified RDOF CBG in the project area awarded to any entity.

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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

8. **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:**

The Nokia 7360 OLT network element which will be installed within the cabinet will connect to an upstream router or layer 3 switch in the Richweb service provider's core network via 10 Gbps link aggregation group (LAG). This OLT would be connected to the service provider core network via an existing aggregation switch which has been installed (at the Stone Coal Hut facility at 196 Landfill Road, New Castle, VA 24127), operational, and is being managed by the service provider. Southbound, the OLT would connect to the residential ONT's using XGS-PON technology and can provide service speed up to 10 Gbps. Sufficient capacity is available within the OLT to cater to future expansions and needs and the line cards being used will be MultiPON line cards that will support XGS-PON technology. The OLT and the ONT's would be provisioned and managed via inband management from the AMS server which is already installed and operational within the service provider network. Quality of Service (QoS) settings would be applied for traffic flows on the OLT and can consist of detailed mechanisms for controlling various types of traffic in both the upstream and downstream directions. See Attachment 6 - Network Design for schematic and information.

9. **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 100/20 Mbps. (up to 10 points)

**Answer:**

The key characteristics of using XGS-PON technology is the flexibility. Using XGS-PON technology, the High Speed Internet (HSI) service can be offered at various speeds ranging up to 10 Gbps as per the desired and defined service tier offerings. The integrated WIFI 6 XGS-PON ONT's are capable of supporting up to 10 Gbps using the XGS-PON technology. Voice services can also be offered using the same infrastructure with embedded SIP clients and POTS port, residing within the ONT's itself. The data services (HSI) and voice services will be carried across the network using VLAN based modeling. The VPLS manager in the 7360 OLT iHUB would aggregate traffic from all the users of that particular service. The VLAN associated with the respective service (HSI data service and voice service) will be maintained through the entire network and will be present on frames for hand-off at the core network of the service provider.

Current offerings from CBEC are at a minimum 250/250 Mbps up to 1000/1000 Mbps (1 Gbps/1 Gbps) on 100% of their system.

Proposed offerings will be (see Attachment 18 for Package/Pricing Sheet):

- Basic Package: 250/250 Mbps
- Fast Package: 400/400 Mbps
- Super Package: 600/600 Mbps
- Ultra Package: 1000/1000 Mbps (1 Gbps/1Gbps)

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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:**

Lumos recently completed its Alleghany Highlands project bringing fiber-based broadband to 12,000 addresses and added more than 650 route miles of fiber within the Alleghany Highlands. This proposed project will create the connectivity needed to provide universal broadband coverage for Alleghany County in an area which is approximately 40 square miles. This is the "last mile" broadband project.

CBEC's construction design includes the following in the project area:

- 158,665 feet (30.05 Miles) construction path footage (distribution)
- 222,000 feet of Trunk Fiber (in-house beyond Fujitsu proposal - see Attachment 13 for the full proposal)
- 625 poles to attach
- 185 drops with a maximum of 500 feet (50% "take rate" in the first 12 months)

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 are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. 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 10 points)

**Answer:**

CBEC will utilize existing utility easements to attach or bury the proposed fiber optics. The existing easements will accommodate the additional plant construction. CBEC projects are reviewed by USDA-RUS for approved materials, construction specifications, environmental, and equal access (CBEC is an equal opportunity provider and employer). See Attachment 19 titled "VA02 Environmental Review CWP 2024-2027".

A proposed project timeline is included in Attachment 7 and is based upon the maximum 18 month schedule. The timeline is subject to change. A table is also included in Attachment 7 showing tasks/responsibilities with Project Management.

A draft Memorandum of Understanding is attached (Attachment 8) between CBEC, the County, and the Covington-Alleghany County Industrial Development Authority. The County has approved the draft MOU per resolution R-23-78 which is included in the attachment. This attachment also includes a letter from CBEC giving information on their company as well as their financials. CBEC and Fujitsu have an existing commercial agreement in place for broadband design, equipment, and construction projects which is available upon request.

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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:**

Allegheny County has not received any VATI grants.

CBEC has received the following VATI grants:

- 2019 Application ID: 59811132018142709 (completed 2020)
- 2022 Application ID: 86508242021113928 (completed December 2023)

13. Matching funds: Complete the funding sources table indicating the cash match and in-kind 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 minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% 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. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

**Answer:**

See Attachments 9 and 10. The matching funds that total \$999,580.00 (30%) are being provided by:

- Allegheny County in the amount of \$333,193.00 (10%)
- CBEC in the amount of \$666,387.00 (20%)

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:**

Applicant-Provided Leverage

Allegheny County is committing the services of its staff (County Administrator, Director of Finance, Director of Public Safety, Assistant to the County Administrator, etc.) in relation to administration of the project and to ensure this project plan is effective long-term. The County will remain active throughout the construction and implementation phases of the project. The County will also assist CBEC with its marketing, as described in the next section. The Department of Social Services, Allegheny Highlands Regional Library, and Allegheny Highlands Public Schools will provide relevant information to citizens regarding funding sources, such as the FCC's Lifeline Program and the Affordable Connectivity Program, which may help citizens afford the monthly connection cost. Community meetings will also continue to be held to update and disseminate information to citizens in the project area on the status of progress. The same partners mentioned and others (i.e. Mountain Gateway Community College, Lewis Gale-Allegheny Regional Hospital, Allegheny Highlands Community Services, etc.) will assist in providing information available to assist with on-line/virtual classes, telehealth, etc.

Co-Applicant Provided Leverage

CBEC brings leverage to this application by being responsible for all "Make Ready" work which is estimated at \$200,000. This amount is not included in this proposal, but will be CBEC's responsibility. CBEC is also responsible for all service drops and the labor associated with them (estimated at \$300,000 for a 50% take rate). They are also responsible for all permitting, encroachment applications, and Dominion Energy pole attachments. CBEC is committed to begin the work upon a successful award of the grant. Upon execution and acceptance from DHCD for this project, CBEC is immediately prepared to begin activities.

- 15.



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Communications Plan: Describe efforts to keep the public informed of project progress and the broadband adoption plan.

- a. Explain how you plan on communicating the project status to stakeholders, including but not limited to County leadership, project areas residents, etc. (Up to 10 points)
- b. 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)
- c. 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:**

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a. We plan to communicate the project status to stakeholders, County leadership, project area residents, etc. by:

- Regular updates in Cooperative Living (CBEC's member magazine)
- Social Media (County Facebook page and on CBEC's Facebook page)
- Crowd Fiber
- Direct Mailings and Doorhangers
- Community Meetings (2 meetings have already been held with the community and those will continue, as needed)
- Updates given to the Board of Supervisors when they meet monthly and/or email updates in between meetings. These meetings are videoed by The Alleghany Journal and shown on their Facebook page.
- An email address has been set up specifically for this project for residents to contact the County and/or ask questions. The email address is [broadband@co.alleghany.va.us](mailto:broadband@co.alleghany.va.us). Business cards were handed out at community meetings with this information and also included the phone number for the County Administrator's Office.

b. We plan to promote customer take rate utilizing the methods above. The residents of the project area have been very vocal over many years regarding the need for reliable broadband connectivity to this rural area of the County. CBEC actively promotes its products and services in the County through a multi-faceted marketing campaign that includes both direct and indirect sales, including door hangers and social media. CBEC and the County will also work together on a public relations plan to announce the award and the extension of services to the project area to bring awareness, including but not limited to, a joint press release and media event. Due to the nature of the impact and the potential community response, it is expected that this project will also be covered by local television, radio, and newspapers. The anticipated take rate is 50 percent.

c. In order to ensure residents and businesses in the project area sufficiently utilize broadband, the following literacy efforts can be utilized:

- Alleghany Highlands Regional Library and Clifton Forge Public Library offer a wide range of free computer, internet use, and resource instructions to help people locate, evaluate, and use online resources. The libraries are vital centers for access to digital literacy and as library users continue to change, these libraries continually evolve to meet the digital needs of the community.
- Alleghany Highlands Public Schools has Instructional Technology teachers that work with the students on digital needs. There are approximately 35 students in the project area and 2 that are homeschooled.
- Mountain Gateway Community College has distance learning with a number of on-line classes available, as well as Computer and Information Learning programs.
- NRTC - National Rural Telecommunications Council (social media materials and tutorial videos)
- NRECA - National Rural Electric Cooperative Association
- Crowd Fiber (NRTC) gives you the tools to make sales or capture interest by address. Watch interest grow in neighborhoods you did not expect and maximize your ROI.
- VMDABC - The Virginia, Maryland, and Delaware Association of Broadband Cooperatives

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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.

**Answer:**

(See Attachment 7 for more details on Project Management by the County and CBEC.)

<u>Name</u>	<u>Title/Organization</u>	<u>Role and Responsibilities</u>	<u>Background</u>
Reid Walters	County Administrator/Alleghany County	Program Administrator/Oversee overall implementation and management of the project.	Has previous experience w/ DHCD grants, as well as Fed/State grants.
Suzanne Adcock-Nicely	Director of Finance/Alleghany County	Financial Officer/Managing financial records, payment of invoices, etc.	Has previous experience w/ DHCD grants, as well as Fed/State grants.
Jonathan Fitch	Director of Public Safety Management Analysis	Community Outreach and Emergency	Has previous experience w/ Fed/State grants and Fire/EMS services.
Melissa Munsey	Asst. to the County Administrator/Alleghany County	Grant Manager/Requests for disbursements, reporting, etc.	Has previous experience w/ DHCD grants, as well as Fed/State grants.
Shannon Cox	Board of Supervisors Member/Alleghany County	Board and Community Liaison/Involved in meetings and keeping community informed, etc.	Member of Board of Supervisors for 11 years.
Ray Lipes	Retired/Lumos Networks	Consulting Member/Share knowledge of infrastructure	Oversaw the Lumos Fiber Broadband Project as Senior Mgr.
Jeff Ahearn	CEO/Craig-Botetourt Electric Cooperative	Project Manager CBEC/Oversee overall management of project by CBEC	Has experience with previous VATI grants.
Others (CBEC)	There will also be other support staff from CBEC involved in the project which is shown in more detail in Attachment 7.		

See attachment 7 for tables.

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:**

CBEC (in coordination with Fujitsu) has completed a detailed cost estimate based upon preliminary engineering and

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design which is included in Attachment 13. Those cost estimates were incorporated into Attachment 12 (Derivation of Costs).

18.

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)

a. \$3,176,057.00

b. Alleghany County Serviceable Units: 365

19.

## Commonwealth Priorities (Up to 50 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 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program

d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.

e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

a. The proposed project area is mostly residential, with a few home-based businesses and one brick mortar business. Three churches are in the proposed project area that serve as important meeting spaces for the local community. The local places of worship often serve as community shelters in times of disaster. Student and residential household internet accessibility is essential to the school district's ability to support virtual learning and content delivery. Without broadband communication, students face significant barriers to overall academic success. Broadband service is essential for the Alleghany County Department of Public Safety and the Alleghany County Sheriff's Department. There are significant public safety communication issues within the proposed project area. These communication issues are documented dating back to the late 1990's. Lacking broadband is often a hinderance for individuals wanting to create a home-based business. This is noted in the letters of support and is a significant hinderance in the proposed project area.

b. Achieving universal broadband coverage for Alleghany County will require a partnership between CBEC and Lumos. We have recently worked through the fine details of how these two utilities can work together to make universal broadband coverage occur in Alleghany County

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- c. CBEC-FCC Affordable Connectivity Program - registered participant. Documentation available upon request.
- d. CBEC has a strong relationship with 3 cooperative State material procurement organizations and additional Telcom vendors:
- TEMA - Tarheel Electric Membership Association, Inc. (<https://www.tema.coop/>)
  - UUS - United Utility Supply (<https://uus.coop/c/products?clear=true>)
  - GRESCO (<https://www.gresco.com/product-markets/telecom/>)
  - Power & Tel (<https://www.ptsupply.com/>)
  - Fujitsu (<https://www.fujitsu.com/us/solutions/industry/public-sector/government/>)
- e. Mountain Gateway Community College is located in Alleghany County and offers numerous hybrid distant learning opportunities. Broadband service to the proposed project area will permit residents to participate in these distant learning activities. Lewis Gale-Alleghany Regional Hospital is located in Alleghany County and, like many medical providers during the COVID pandemic, have offered telehealth opportunities for patients. Broadband within the proposed area will afford residents to participate in telehealth opportunities offered by our regional hospital.

20.

## Additional Information

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 14 – Letters of Support.

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 15 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 16 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 17 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 18 – XXXXXXXX
- e. Attachment 19 – XXXXXXXX
- f. Attachment 20 – XXXXXXXX

N/A

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18. 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. \$2,332,353.00

b. Alleghany County Serviceable Units: 370

19. **Commonwealth Priorities (Up to 50 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 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program
  
- d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
  
- e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

**Answer:**

# Application to DHCD Submitted through CAMS

Alleghany County

Alleghany County Crows-Hematite Broadband Initiative 2024

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- a. The proposed project area is mostly residential, with a few home-based businesses and one brick and mortar business. Four churches and the Dunlap Fire/Rescue Station are in the proposed project area and serve as important meeting spaces for the local community. The local places of worship often serve as community shelters in times of disaster. Student and residential household internet accessibility is essential to the school district's ability to support virtual learning and content delivery. Without broadband communication, students face significant barriers to overall academic success. There are approximately 35 students in the project area and 2 that are homeschooled. Broadband service is essential for the Alleghany County Department of Public Safety and the Alleghany County Sheriff's Department. There are significant public safety communication issues within the proposed project area. These communication issues are documented dating back to the late 1990's. Lacking broadband is often a hindrance for individuals wanting to create a home-based business or for virtual learning. This is noted in the letters of support and is a significant hindrance in the proposed project area.
- b. Achieving universal broadband coverage for Alleghany County will require a partnership between the County and CBEC (in coordination with Fujitsu). CBEC will also be working with Dominion Energy who is the owner of the utility poles, as well as VDOT and CSX for any encroachments. The County will utilize existing relationships with the local Department of Social Services, public schools, community college, local libraries, Alleghany Highlands Community Services, etc. as partners to assist in developing solutions that will address individual cases of need.
- c. CBEC provides broadband connectivity at discounted prices for financially struggling households through the Federal Communication Commission's Affordable Connectivity Program ("ACP"). The program provides a discount of up to \$30 per month towards broadband service for eligible households (and up to \$75 per month for households on qualifying Tribal lands) so that they can be connected for distance learning, work from home, telehealth and other critical online destinations. More information is available on the CBEC website at: <https://www.cbec.coop/energy-solutions#broadband>. Additional efforts to provide digital equity will be addressed, as mentioned in subsection (b), by partnering with the Department of Social Services, public schools, community college, local libraries, Alleghany Highlands Community Services, etc. on any programs they may have.
- d. CBEC is a member of 2 purchasing cooperatives from Kentucky and North Carolina and has strong relationships with 2 additional purchasing cooperatives in South Carolina and Georgia. The benefits of utilizing purchasing cooperatives include: (a) cost savings by leveraging collective buying power of its members as the cooperative can negotiate better pricing, terms, and conditions with suppliers; (b) increased efficiency as cooperatives streamline the procurement process by centralizing purchasing activities; (c) access to quality suppliers as cooperatives have extensive networks and established relationships with reputable suppliers to allow members to procure goods and services from trusted sources; (d) cooperatives have collective influence that allows them to negotiate favorable terms, influence product development, and shape industry standards; and (e) cooperatives foster a culture of knowledge sharing and collaboration among members. CBEC also has strong relationships with Power & Tel and Fujitsu.
- e. As mentioned in question 15, CBEC actively promotes its products and services in the County through a multi-faceted marketing campaign that includes both direct and indirect sales, including door hangers and social media. CBEC and the County will also work together on a public relations plan to announce the award and the extension of services to the project area to bring awareness, including but not limited to, a joint press release and media event. Due to the nature of the impact and the potential community response, it is expected that this project will also be covered by local television, radio, and newspapers. CBEC also provides broadband connectivity at discounted prices for financially struggling households through the FCC's Affordable Connectivity Program. More information is available on the CBEC website at: <https://www.cbec.coop/energy-solutions#broadband>. Mountain Gateway Community College is located in the County and offers numerous hybrid distance learning opportunities. Broadband service to the proposed project area will permit residents to participate in these distant learning activities. Lewis Gale-Alleghany Regional Hospital is located in the County and, like many medical providers during the COVID pandemic, have offered telehealth opportunities for patients. Alleghany Highlands Community Services (AHCS) offers virtual mental health and substance abuse resources in the County. Broadband within the project area will afford residents to participate in telehealth opportunities offered by our regional hospital and AHCS.

# Application to DHCD Submitted through CAMS

Alleghany County

Alleghany County Crows-Hematite Broadband Initiative 2024

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## 20. Additional Information

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 14 – Letters of Support.

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 15 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 16 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 17 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 18 – XXXXXXXX
- e. Attachment 19 – XXXXXXXX
- f. Attachment 20 – XXXXXXXX

### Answer:

Attachment 18 - Package/Pricing Sheet (goes with question 9)

Attachment 19 - VA02 Environmental Review CWP 2024-2027 (goes with question 11)

### Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMaps12132023110322.pdf

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

Attachment2DocumentationofFederalFunding12132023110840.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment3DocumentationofUnservedAreaVATICriteria12132023111418.pdf



# Application to DHCD Submitted through CAMS

Alleghany County

Alleghany County Crows-Hematite Broadband Initiative 2024

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Propagation Map if Wireless Project

Attachment6NetworkDesign12132023112424.pdf

Timeline/Project Management Plan

Attachment7TimelineProjectManagement12132023112902.pdf

MOU/MOA between applicant/co-applicant (can be in draft form)

Attachment8MOUBetweenApplicantCoApplicant12132023113409.pdf

Documentation of Supporting Cost Estimates

Attachment13DocumentationofSupportingCostEstimates12132023122102.pdf

Letters of Support

Attachment14LettersofSupport12192023103735.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment15Form477FilingSummary12132023124802.pdf

Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area

FiberProjectAlleghanyCounty1213202311829.zip

Optional

Attachment18PackagePricing12132023123205.pdf

Optional

Attachment19VA02EnvironmentalReviewCWP2024202712132023123951.pdf

Documentation of Match Funding

Attachment10DocumentationofMatchFunding12132023115227.pdf

Derivation of Cost/Project Budget (Use template provided)

Attachment12DerivationofCost1214202330212.pdf

# Application to DHCD Submitted through CAMS

Alleghany County

Alleghany County Crows-Hematite Broadband Initiative 2024

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Funding Sources Table (Use template provided)

Attachment9FundingSourcesTable12192023104339.pdf

Prior Expended Match Form (use template provided)

Attachment11PriorExpendedMatchForm12132023120850.pdf

Passings Form (Use template provided)

Attachment4PassingsForm1214202324453.pdf

Documentation of RDOF awarded area in VATI project Area (Use template provided)

Attachment5RDOFPassingsForm12132023112056.pdf

VATI 2024

Supplemental Application Question

Applicant:

Project Name:

The question below is question e. from the Commonwealth Priorities section of the 2024 Virginia Telecommunication Initiative (VATI) Guidelines. Please answer the question using this form and email to [VATI@dhcd.virginia.gov](mailto:VATI@dhcd.virginia.gov).

**Commonwealth Priorities**

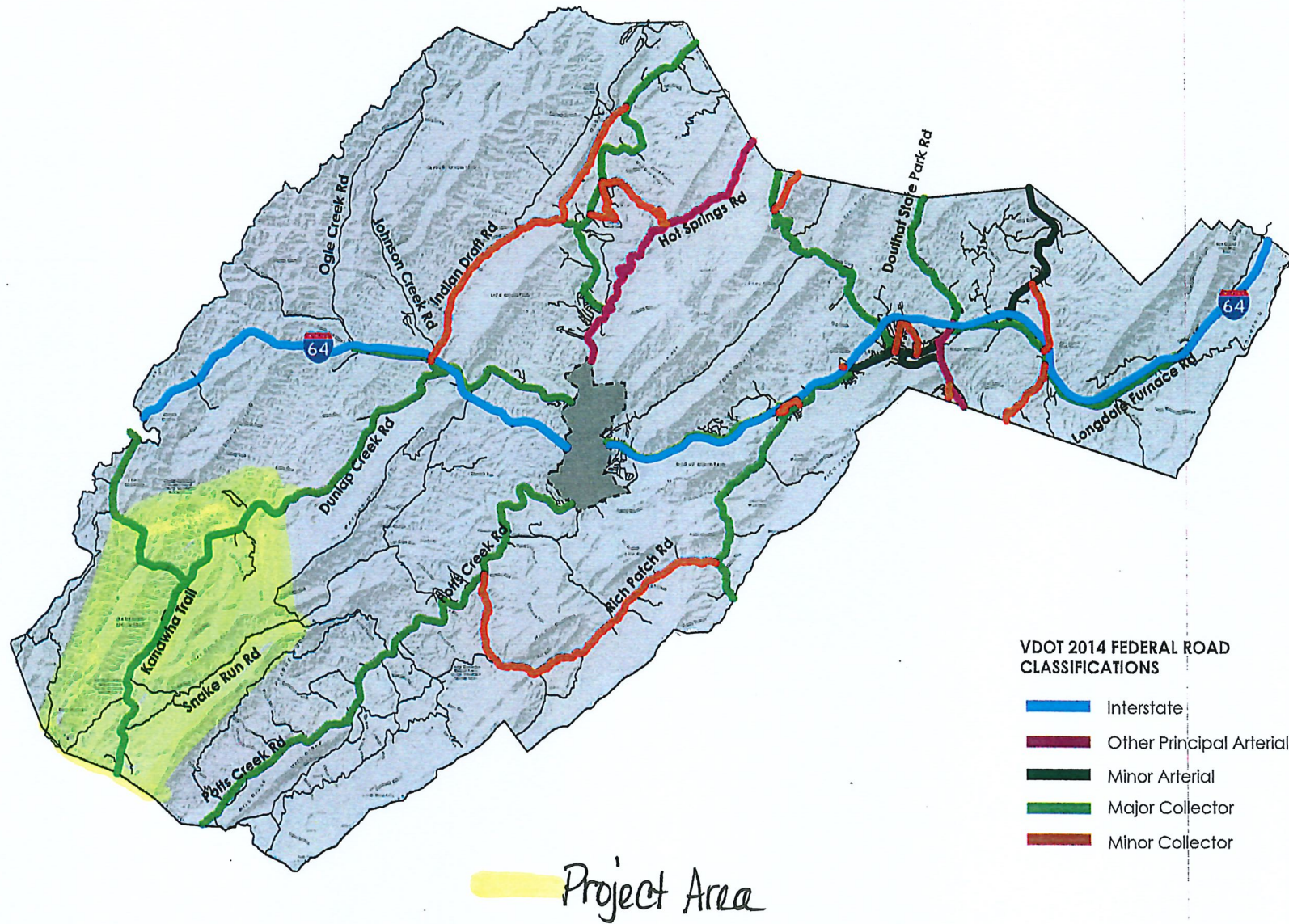
20. Additional points will be awarded to proposed projects that reflect Commonwealth priorities. If applicable, describe the following:

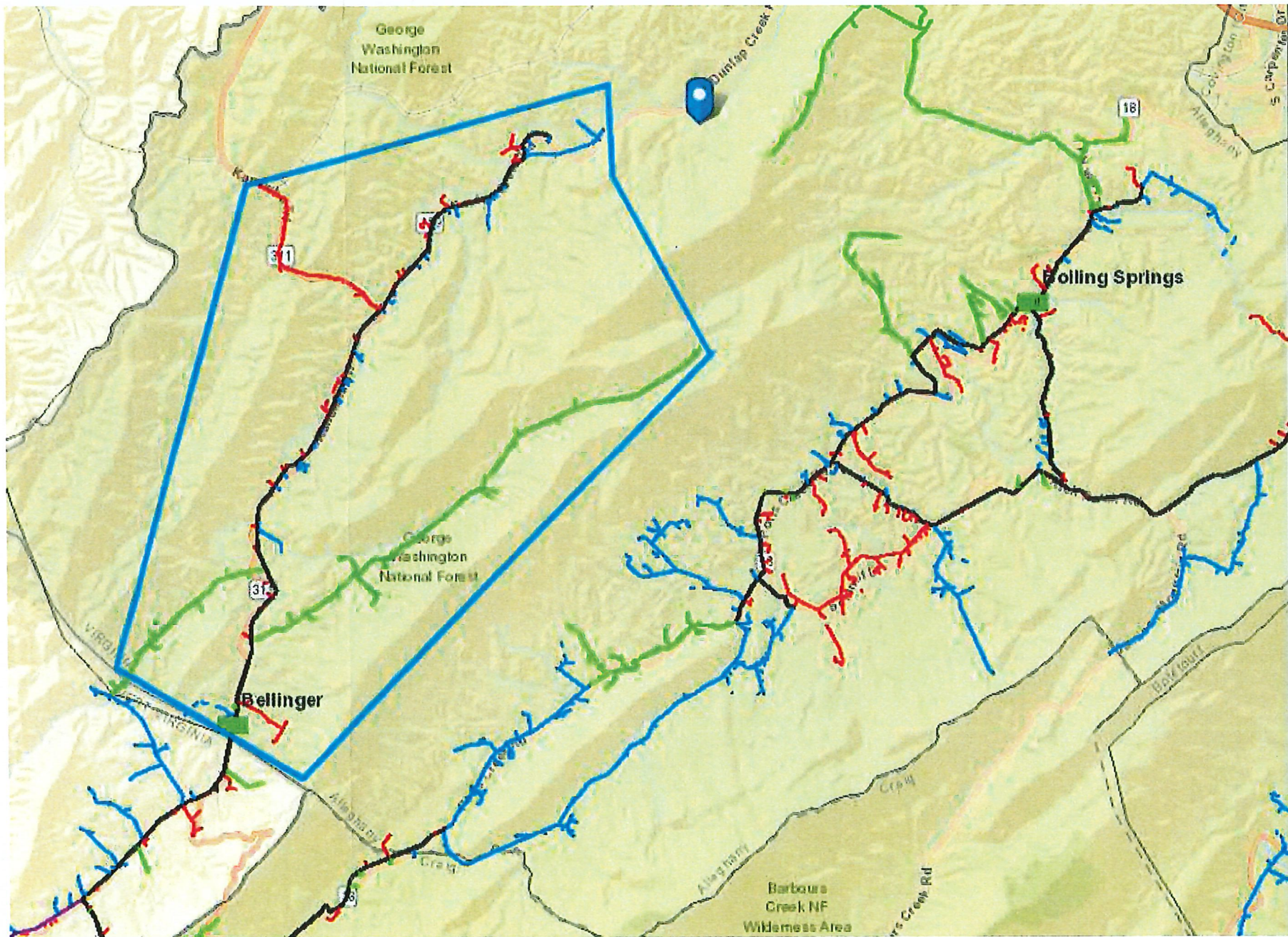
e. The co-applicant's effort to mitigate costs and delays that may be associated with make-ready and other permitting requirements anticipated for network deployment.

Provide answer here.

Craig-Botetourt Electric Cooperative (CBEC) is proposing to construct this project utilizing existing poles and right of ways. 90%+ of this project will utilize CBEC's poles and right of ways. The remaining 10%- will utilize encroachment of VDOT right of ways with a possible pole attachment agreement with Dominion Energy to serve 5 additional addresses.

▼ MAP 5.1 ALLEGHANY COUNTY FEDERAL ROAD CLASSIFICATIONS





- Layers
- Network Barrier Tools
- Fault Finder
- Print
- Draw
- ▾ Measurement
  - 📏 Area
  - 📏 Distance
  - 📍 Location

---

- Measurement Result
- 40.4 Sq Miles

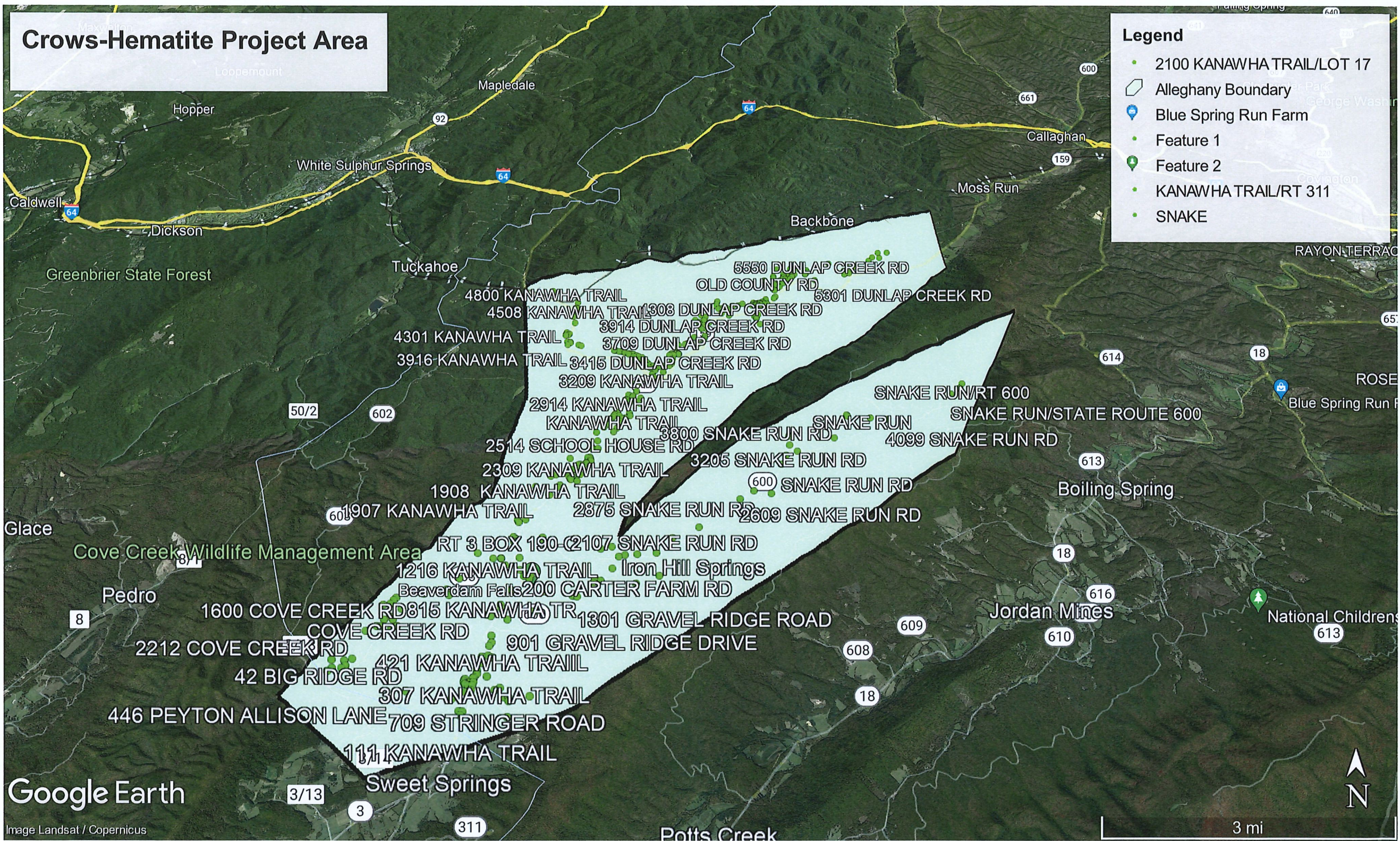
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- Bookmarks
- Zoom To Coordinates

# Crows-Hematite Project Area

**Legend**

- 2100 KANAWHA TRAIL/LOT 17
- Alleghany Boundary
- 📍 Blue Spring Run Farm
- Feature 1
- 📍 Feature 2
- KANAWHA TRAIL/RT 311
- SNAKE



# **ATTACHMENT 2**

## **Documentation of Federal Funding**

There are no CAF awarded CBG's in the project area. There are no identified RDOF CBG in the project area. Craig-Botetourt Electric Cooperative (CBEC) does not have an RDOF or CAF in the project area.

# **ATTACHMENT 3**

## **Documentation of Unserved Area VATI Criteria**

The Alleghany County Broadband Coverage Map produced by Commonwealth Connection on the following page shows no service existing within the proposed project area. Lumos Networks is currently covering 79% of the County with their broadband service (100% of their service area).





## Speed Test

Download Speed, Upload Speed, and Latency



## Broadband Coverage

FCC vs. Virginia Broadband, Speed, Technology



## Boundaries

Census, Counties/Cities, Government Districts



## Population

- Census Blocks 2020
- Counties and Incorporated Cities



## Government Districts

- Federal Congressional Districts
- VA State Senate Districts
- VA House of Delegates Districts
- School Districts



## Assets and Programs

WiFi, Towers, State and Non-Profit Programs

[Privacy Policy](#)



## Census Block (2020)



ID: 510050803022036

All broadband information is reported based on coverage at the census block level. ⓘ

VA Collected • Mar 2023

FCC BDC • Dec 2022



## Broadband Coverage



0% of addresses in this Census block are served



## Internet Service Providers

There is no reported broadband service in this area.



## Localities & Jurisdictions



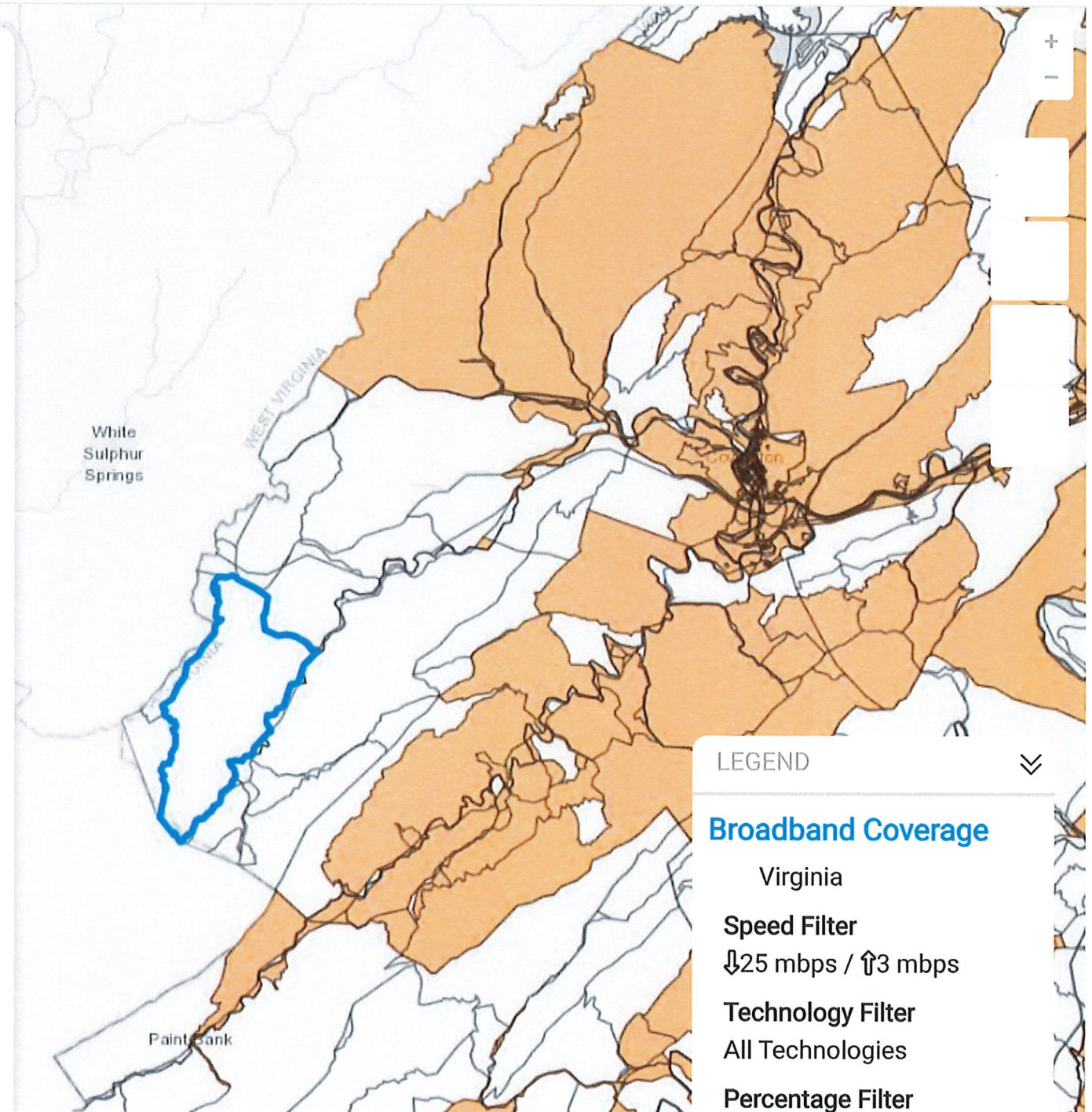
Locality: [Alleghany County](#) >>

Virginia State Senate: [State Senate District 25](#) >>

Virginia House of Delegates: [State House District 19](#) >>

US Congressional District: [Congressional District 9](#) >>

School: [Alleghany County Public Schools](#) >>



### LEGEND

#### Broadband Coverage

Virginia

#### Speed Filter

↓25 mbps / ↑3 mbps

#### Technology Filter

All Technologies

#### Percentage Filter

80%

#### Boundaries

Census Blocks 2020

[Export Map to Image](#)

# 2024 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area <sup>1</sup>	Passings in the Project Area, without Special Construction Costs Required <sup>2</sup>	Passings with Special Construction Costs budgeted in the Application <sup>3</sup>	Number of Passings with Speeds at 25/3 or below in Project Area <sup>4</sup>
Residential	356	0	356	356
Businesses (non-home based)	1	0	1	1
Businesses (home-based)	8	0	8	8
Community Anchors	1	0	1	0
Non-residential	4	0	4	4
<b>Total</b>	<b>370</b>	<b>0</b>	<b>370</b>	<b>370</b>

**Note:** The Total Number of Passings **MUST** 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.

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

<sup>2</sup>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.

<sup>3</sup>The 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.

<sup>4</sup>The number of structures in the project area that do not have access to internet at speeds of at least 25 mbps download and 3 mbps upload.

# 2024 Virginia Telecommunication Initiative (VATI)

## RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas <sup>1</sup>
Residential	N/A
Businesses (non-home based)	N/A
Businesses (home-based)	N/A
Community Anchors	N/A
Non-residential	N/A
Total Number of RDOF Passings	N/A

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

### Definitions

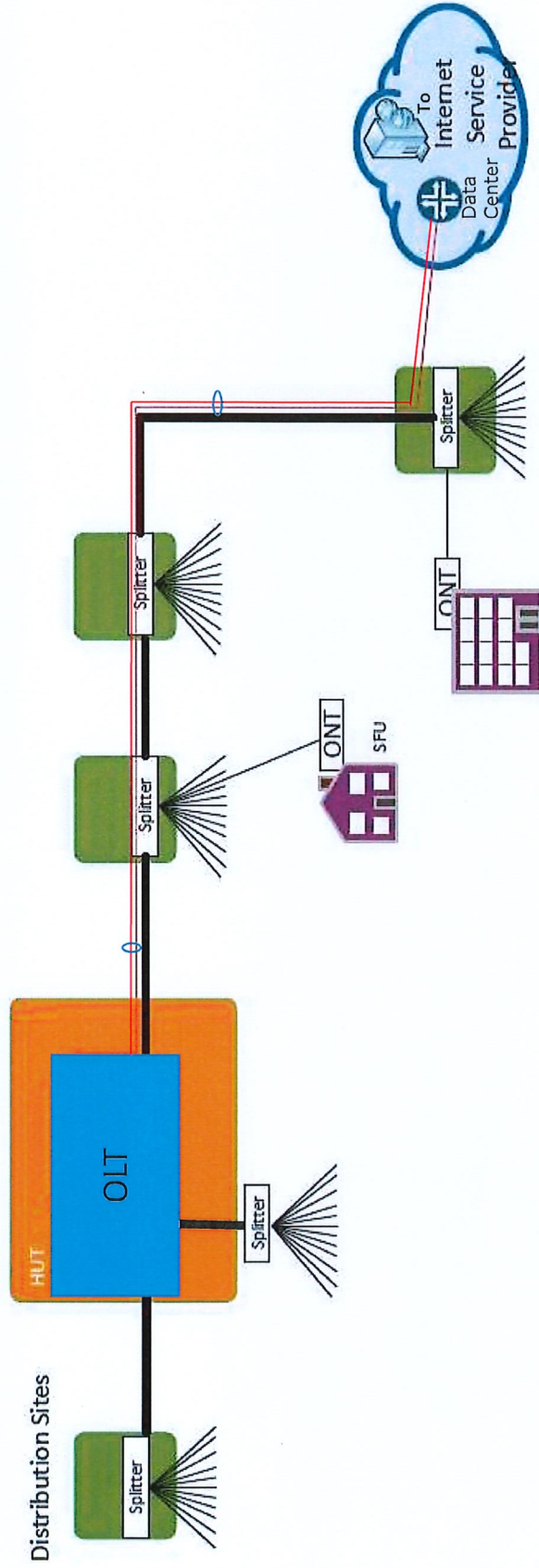
**Passing** – any structure that can receive service. Multi-unit structures may be counted as more than 1 passing, provided individual connections and account are planned at that structure.

**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.

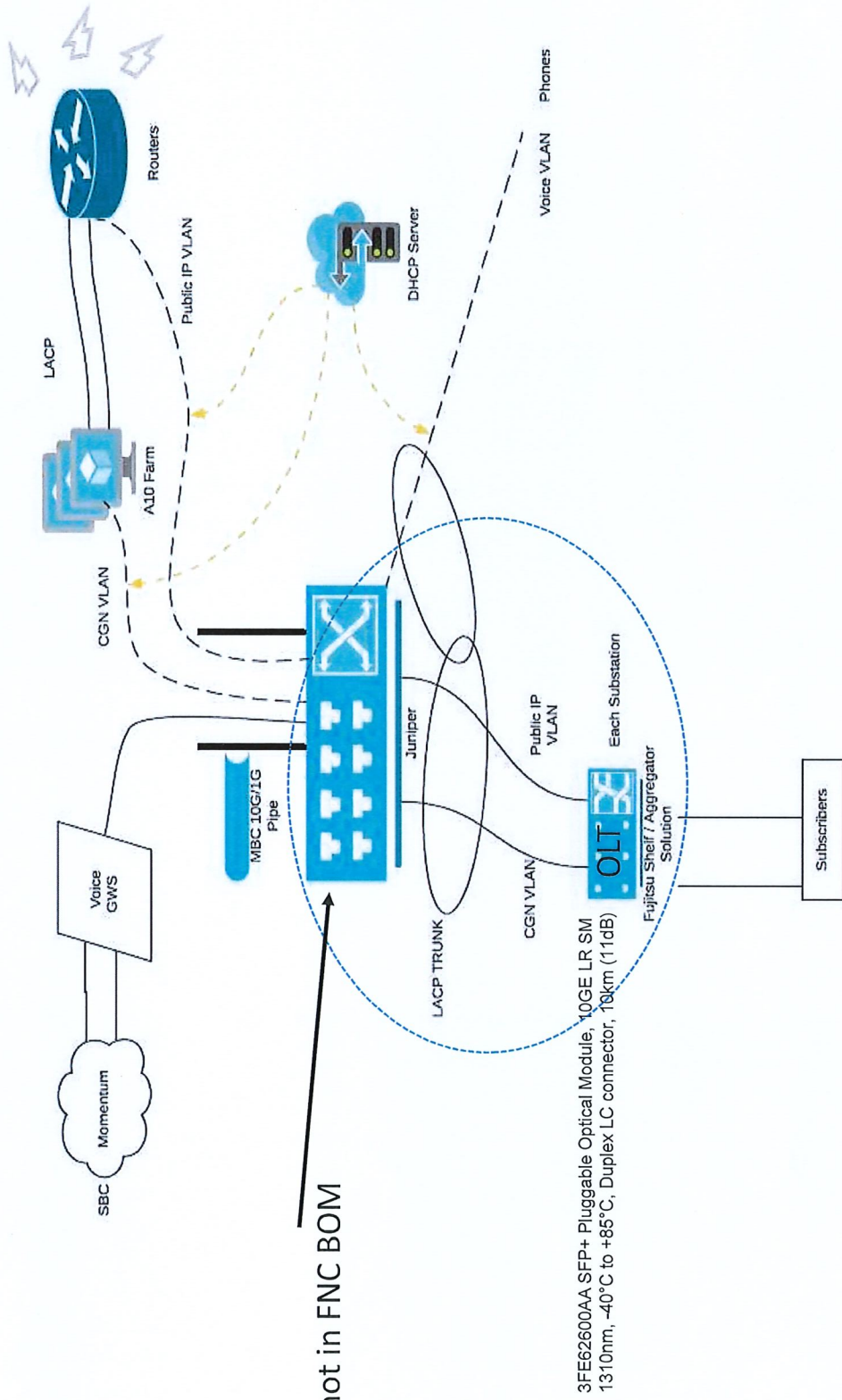
## Private Broadband - CBEC



**A typical FTTx Architecture**

# Original Richweb Design

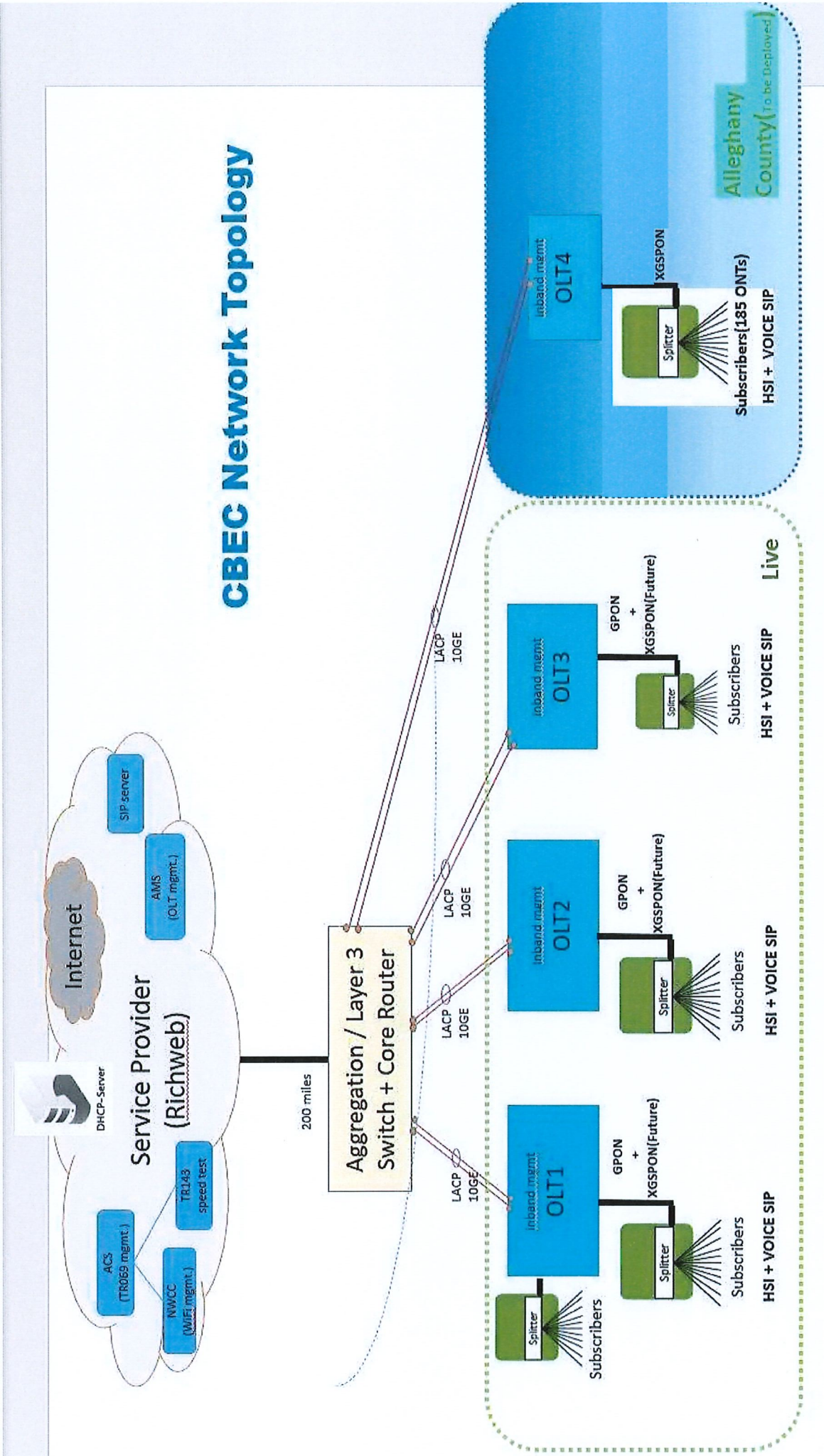
CBEC



Device not in FNC BOM

3FE62600AA SFP+ Pluggable Optical Module, 10GE LR SM  
1310nm, -40°C to +85°C, Duplex LC connector, 10km (11dB)

# CBEC Network Topology



## Nokia WiFi Gateway 3

Gateway for the intelligent mesh network – G-240W-E

The Nokia WiFi Gateway 3 is the most advanced solution for whole home Wi-Fi networking delivered by Gigabit Passive Optical Network (GPON). This premium class Nokia WiFi gateway operates seamlessly, together with the Nokia WiFi beacons, to create a whole home coverage mesh network backhauled by wired Ethernet or Wi-Fi. The end-user experience with the intelligent self-organizing mesh system is enhanced by a service provider's Wi-Fi care capabilities in the cloud and intuitive home user support using the Nokia mobile app.

The Nokia WiFi Gateway 3 is the optimal one-box solution integrating the optical network terminal (ONT) and Wi-Fi mesh functions to bring ultra-broadband service to and into the home. The device has Nokia state-of-the-art intelligent self-organizing mesh and built-in edge analytics over concurrent dual-band Wi-Fi that delivers a whole home optimal link to the connected equipment. It can provide triple play services with voice, video and data, while its unique spectrum monitoring and interference detection ensure an overall top quality experience.

In combination with the Nokia 7360 Intelligent Services Access Manager (ISAM)/7342 ISAM and Lightspan optical line terminals (OLTs), the gateway forms a uniform end-to-end industry-leading access network solution to ensure carriers deliver the highest satisfaction to their subscribers.

Next to the regular ONT management control interface (OMCI) and TR-069 remote device management, operators acquire control over the home Wi-Fi solution through the one-click Nokia WiFi home portal. The portal presents a holistic view of the in-home network to help desk agents, assisting them in easy identification and instantaneous resolution of issues as well as offering recommendations for operator upsell opportunities.



The Nokia WiFi mobile app provides home users with an intuitive and simplified interface for trouble-free management of their home network and Wi-Fi. It also provides advanced functions such as guest Wi-Fi management and parental controls.

## Features

- GPON uplink, G.984, G.988 series standard compliant
- Bridge and router mode, TR-069 support
- Supports full triple play services including voice, video and high-speed internet access (HSIA)
- Dual-band concurrent IEEE 802.11b/g/n 3x3 2.4 GHz and 802.11ac 4x4 5 GHz
- Nokia intelligent mesh
- Embedded edge analytics
- Real-time wireless spectrum analysis

## Benefits

- PHY rate up to 750 Mb/s for 2.4 GHz and 2170 Mb/s for 5 GHz (with 1024 QAM capable clients)
- Mesh topology and intelligent mesh routing
- Self-healing, self-optimizing network
- Band steering, channel optimization
- Seamless roaming for IEEE 802.11k/v/r capable or legacy clients
- Embedded range boost technology to significantly extend absolute range
- Insight on home network and recommendations for operator assisted care and end user self-care
- Real-time wireless spectrum scan and analysis
- Allows service per port configurations
- High quality of service (QoS) video over Wi-Fi
- Ease of setup and user intuitive information
- Optimized fiber routing and protection

## Technical specifications

### Physical

- Height: 200 mm (7.9 in)
- Diameter: 94 mm (3.7 in)
- Weight: 0.84 kg (1.9 lb)

### Installation

- Desktop mounting

### Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

### Power requirements

- Local powering with 12 V/3A DC input (external AC/DC adapter)
- Dying gasp support
- Power consumption: <36 W
- Uninterruptible power supply (UPS) connector

### GPON uplinks

- Wavelength: 1490 nm downstream, 1310 nm upstream
- Line rate: 2.488 Gb/s downstream, 1.244 Gb/s upstream
- GPON Encapsulation Method (GEM) mode support for IP/Ethernet service traffic support
- ITU-T G.984.3-compliant dynamic bandwidth report (DBR)
- ITU-T G.984.3-compliant Advanced Encryption Standard (AES) in downstream
- ITU-T G.984.3-compliant forward error correction (FEC)
- ITU-T G.988 Appendix 1 and Appendix 2 OMC1
- Flexible software image management
- SC/APC connector

### POTS interfaces

- Two FXS ports for voice over IP (VoIP) service with RJ-11 connectors
- Multiple codecs: ITU-T G.711, ITU-T G.729 (A and B)
- Session Initiation Protocol (SIP) (RFC 3261)
- ITU-T G.168 echo cancellation
- Services: caller ID, call waiting, call hold, 3-way call, call transfer, message waiting indication
- Maximum 5 ringer equivalency numbers (RENs) per line





- Dual-tone multi-frequency (DTMF) dialing
- Balanced sinusoidal ring signal, 55 V root mean square (RMS)

### WLAN interfaces

- Supports 3x3 802.11b/g/n 2.4 GHz wireless LAN (WLAN) interface
- Supports 4x4 802.11ac 5 GHz WLAN interface with multi-user multiple input, multiple output (MU-MIMO)
- Maximum effective isotropic radiated power (EIRP) on 2.4 GHz up to 500 mW and 5 GHz up to 1 W
- 64-bit and 128-bit Wired Equivalent Privacy (WEP) support
- Wi-Fi Protected Access (WPA) support including Pre-Shared Key (WPA-PSK) and WPA2
- Media access control (MAC) filters

### USB interface

- Two USB 2.0 interfaces support external disk drives and home network attached storage (NAS)

### Residential gateway

- IPv4 and IPv6 connectivity: Dual stack and DS Lite, stateless and stateful auto-configuration, DHCPv6 prefix delegation
- Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)
- Network Address Translation (NAT), demilitarized zone (DMZ) and firewall
- Dynamic Host Configuration Protocol (DHCP) and domain name system (DNS) proxy

- Internet Group Management Protocol (IGMP) v2/v3 proxy/Multicast Listener Discovery (MLD) proxy
- Supports virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP) and IPSec
- Port forwarding and DMZ/dynamic domain name system (DDNS)
- Flexible video delivery options of Ethernet or wireless to set-top boxes (STBs)
- Dual TR-069 connectivity for independent remote device and Wi-Fi management

### LEDs

- Simple and intuitive status indication by colored light on top of device
- GPON link status
- VoIP status

### Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

### Regulatory compliances

- UL 62368-1
- CSA C22.2 No. 62368-1
- FCC
- CE
- FDA laser register
- Wi-Fi Alliance certified

### About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry's most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. [networks.nokia.com](https://networks.nokia.com)

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Document code: SR1802022284EN (April)



# PROJECT MANAGEMENT

NAME	TITLE	ORGANIZATION	ROLE AND RESPONSIBILITIES	BACKGROUND
Reid Walters	County Administrator	Alleghany County	Program Administrator. Oversee overall implementation and management of the project.	Has previous experience with DHCD grants, as well as Federal and State grants.
Suzanne Adcock-Nicely	Director of Finance	Alleghany County	Financial Officer. Manage financial records, payment of invoices, etc.	Has previous experience with DHCD grants, as well as Federal and State grants.
Jonathan Fitch	Director of Public Safety	Alleghany County	Community Outreach and Emergency Management Analysis	Experience with fire and EMS services and former law enforcement experience. Has previous experience with Federal and State grants.
Melissa Munsey	Asst. to the County Administrator	Alleghany County	Grant Manager. Requests for disbursements, reporting, etc.	Has previous experience with DHCD grants, as well as Federal and State grants.
Shannon Cox	Board of Supervisors	Alleghany County	Board and Community Liaison. Involved in meetings and keeping the community informed, etc.	Member of Board of Supervisors for 12 years.
Ray Lipes	Retired	Lumos Networks	Consulting Member. Share knowledge of infrastructure.	Oversaw the Lumos Fiber Broadband Project as Senior Manager.
Jeff Ahearn	CEO	Craig-Botetourt Electric Cooperative	Project Manager CBEC. Oversee overall management of the project.	Has experience with previous VATI grants.
Others (CBEC)	See attached listing of support staff from CBEC to be involved in the project.			

# CBEC SUPPORT STAFF/PROJECT TEAM

NAME	TITLE	ORGANIZATION	PROJECT ROLE	PROJECT RESPONSIBILITIES
Jeff Ahearn	CEO	CBEC	Project Manager	Overall manager of project
Troy Hall	Manager of Electric Distribution Services	CBEC	Construction Coordinator	Coordinates construction of fiber facilities with Fujitsu
Tim Kaczmariski, CPA, CGMA	Director of Business Services	CBEC	Grant Accounting	Tracks grant expenses and prepares reports
Mary Ann Gober	Cooperative Services Associate	CBEC	Administrative	Performs administrative tasks as necessary
Drew Earnest	Manager, Complex Delivery	Fujitsu	Project delivery oversight/escalation	Ensure proper delivery of Fujitsu SOW items by the project team and advise/assist CBEC (customer) in meeting their requirements.
Kathy Beauregard	Project Manager	Fujitsu	Project and Construction Management	Manage project delivery and subcontractors for construction and network delivery
Dave Keller	Vice President of Sales & Business Development	Mid-Atlantic Broadband Communities Corporation	Construction Collaborator	Coordinates access to fiber backbone
Mark Lea	Rich Web/Pixel Factory		Access Lead	Coordinates internet access

**MEMORANDUM OF UNDERSTANDING  
BETWEEN THE COUNTY OF ALLEGHANY,  
VIRGINIA, COVINGTON-ALLEGHANY  
COUNTY INDUSTRIAL DEVELOPMENT  
AUTHORITY, VIRGINIA, AND CRAIG-  
BOTETOURT ELECTRIC COOPERATIVE FOR  
APPLYING FOR VIRGINIA TELECOMMUNICATIONS  
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 \_\_\_\_ 20\_\_\_\_, by and between Alleghany County, Virginia (the "County"), a political subdivision of the Commonwealth of Virginia, the Covington-Alleghany County Industrial Development Authority of Alleghany County, Virginia (the "Authority"), 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 Alleghany County, Virginia.

The County and Authority recognize that in order to attain and maintain a high-quality level of broadband service to the citizens of Alleghany 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 Authority is a political subdivision of the Commonwealth of Virginia, authorized to make grants for the purposes of promoting industry, developing trade, and inducing manufacturing, industrial, governmental, nonprofit and commercial enterprises and institutions to locate, remain, or expand facilities in the Commonwealth, under Section 15.2-4905 of the Code of Virginia, 1950, as amended.

The County wishes to make certain funds available to the Authority, and the Authority wishes to make a grant to CBEC, for the purposes of incentivizing CBEC to expand its facilities in Alleghany 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, Authority, and CBEC desire to cooperatively work together to prepare and apply for grant funding through the 2024 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 370 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 16,250 linear feet of underground fiber optic cable.
- Placement of approximately 165,869 linear feet of aerial fiber optic cable.
- Placement of approximately 44,400 linear feet of aerial trunkline
- 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 100 Mbps/100 Mbps to 1 Gbps. The total cost of these projects is estimated at \$3,331,933.00.

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 \$2,332,353 (70% of the estimated project cost) to be allocated to the above projects. The County will contribute not more than \$333,193.00 (10% of the estimated project cost) toward completion of the projects. CBEC agrees to provide the remaining project funding to complete the above projects in the amount of \$666,387.00 (which is anticipated to be 20% of the project cost).

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.

*Signatures on following page*

IN WITNESS WHEREOF, the parties have executed this Memorandum of Understanding on the day, month, and year indicated:

**FOR ALLEGHANY COUNTY, VIRGINIA:**

By: \_\_\_\_\_,  
\_\_\_\_\_, County Administrator

COMMONWEALTH OF VIRGINIA  
COUNTY OF \_\_\_\_\_, to wit:

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_, on behalf of Alleghany County, Virginia.

My commission expires \_\_\_\_\_

Registration No. \_\_\_\_\_

Approved as to form:

By: \_\_\_\_\_,  
\_\_\_\_\_, County Attorney

**FOR THE COVINGTON-ALLEGHANY COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY OF ALLEGHANY COUNTY:**

By: \_\_\_\_\_  
\_\_\_\_\_, Chairman

COMMONWEALTH OF VIRGINIA  
COUNTY OF \_\_\_\_\_, to wit:

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_, on behalf of the Covington-Alleghany County Industrial Development Authority of Alleghany County, Virginia.

My commission expires \_\_\_\_\_

Registration No. \_\_\_\_\_

**FOR CRAIG-BOTETOURT ELECTRIC COOPERATIVE:**

By: \_\_\_\_\_

[name]

[title]

COMMONWEALTH OF VIRGINIA

COUNTY OF \_\_\_\_\_, to wit:

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_ by  
\_\_\_\_\_, on behalf of CBEC.

My commission expires \_\_\_\_\_

Registration No. \_\_\_\_\_



**BOARD OF SUPERVISORS  
COUNTY OF ALLEGHANY  
Covington, Virginia**

At a regular meeting of the Board of Supervisors, Alleghany County, Virginia held on Tuesday, December 5, 2023 at 7:00 P.M., in the Board Room of the County Governmental Complex thereof, the following action was taken:

<u>MEMBERS:</u>	<u>VOTE:</u>
G. Matt Garten, Chairman	YES
James M. Griffith, Vice-Chairman	YES
Stephen A. Bennett	YES
Shannon P. Cox	YES
Gregory A. Dodd	YES
Ronald S. Goings	YES
Cletus W. Nicely	YES

On motion of Mrs. Cox, seconded by Mr. Griffith, that the following resolution be adopted:

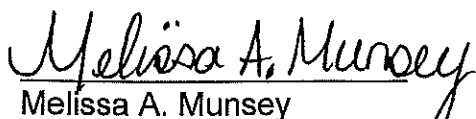
BE IT RESOLVED that the Alleghany County Board of Supervisors authorize Mr. Reid Walters, County Administrator, to proceed with applying for funding through the Virginia Telecommunications Initiative (VATI) for the Crows-Hematite Broadband Initiative.

BE IT FURTHER RESOLVED that the Board authorize Mr. Walters to enter into an agreement with Craig-Botetourt Electric Cooperative in relation to the abovementioned VATI grant if awarded.

BE IT FINALLY RESOLVED that the Board agrees to set aside funding as its 10% match for the abovementioned VATI grant to be utilized if awarded.

Unanimously adopted.

A COPY TESTE:

  
Melissa A. Munsey  
Deputy Clerk to the Board



**CRAIG-BOTETOIRT**  
ELECTRIC COOPERATIVE

December 12, 2023

Reid Walters, MPA, ICMA-CM  
County Administrator  
Alleghany County Governmental Complex  
9212 Winterberry Ave., Suite C  
Covington, VA 24426

Dear Mr. Walters,

We are pleased to partner with Alleghany County to apply for funding to extend broadband and 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, Craig, Giles, Montgomery, and Roanoke 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, 2022, the Cooperative had a total utility plant of \$51.7 million. We have annual electric distribution sales of near \$15.2 million. We currently finance our construction projects from three different organizations USDA's Rural Utilities Service (RUS), 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 subsidiary.

Please accept this letter and our current USDA RUS Form 7, for our financial statement documentation.

Sincerely,

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

"Craig-Botetourt Electric Cooperative is an equal opportunity provider and employer."

P. O. Box 265  
26198 Craigs Creek Rd.  
New Castle, VA 24127-0265

[www.cbec.coop](http://www.cbec.coop)  
 We're social. Follow us.

Toll-Free: (800) 760-2232  
Local: (540) 864-5121  
Fax: (540) 283-0585

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0032. The time required to complete this information collection is estimated to average 15 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

BORROWER DESIGNATION VA0002

FINANCIAL AND OPERATING REPORT  
ELECTRIC DISTRIBUTION

PERIOD ENDED December 2022 (Prepared with Audited Data)

BORROWER NAME Craig-Botetourt Electric Cooperative

INSTRUCTIONS - See help in the online application.

This information is analyzed and used to determine the submitter's financial situation and feasibility for loans and guarantees. You are required by contract and applicable regulations to provide the information. The information provided is subject to the Freedom of Information Act (5 U.S.C. 552)

**CERTIFICATION**

We recognize that statements contained herein concern a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious or fraudulent statement may render the maker subject to prosecution under Title 18, United States Code Section 1001.

We hereby certify that the entries in this report are in accordance with the accounts and other records of the system and reflect the status of the system to the best of our knowledge and belief.

**ALL INSURANCE REQUIRED BY PART 1788 OF 7 CFR CHAPTER XVII, RUS, WAS IN FORCE DURING THE REPORTING PERIOD AND RENEWALS HAVE BEEN OBTAINED FOR ALL POLICIES DURING THE PERIOD COVERED BY THIS REPORT PURSUANT TO PART 1718 OF 7 CFR CHAPTER XVII**

(check one of the following)

All of the obligations under the RUS loan documents have been fulfilled in all material respects.

There has been a default in the fulfillment of the obligations under the RUS loan documents. Said default(s) is/are specifically described in Part D of this report.

Jeffrey Ahearn

5/12/2023

DATE

**PART A. STATEMENT OF OPERATIONS**

ITEM	YEAR-TO-DATE			THIS MONTH (d)
	LAST YEAR (a)	THIS YEAR (b)	BUDGET (c)	
1. Operating Revenue and Patronage Capital	13,694,412	15,283,385	14,464,826	1,731,245
2. Power Production Expense				
3. Cost of Purchased Power	6,552,418	7,946,948	6,965,366	1,002,359
4. Transmission Expense				
5. Regional Market Expense				
6. Distribution Expense - Operation	981,915	683,645	1,048,615	53,122
7. Distribution Expense - Maintenance	1,619,568	1,774,993	1,667,497	100,014
8. Customer Accounts Expense	461,072	486,178	555,546	33,260
9. Customer Service and Informational Expense	104,048			
10. Sales Expense				
11. Administrative and General Expense	1,328,440	1,892,757	1,438,531	248,595
<b>12. Total Operation &amp; Maintenance Expense (2 thru 11)</b>	<b>11,047,461</b>	<b>12,784,521</b>	<b>11,675,555</b>	<b>1,437,350</b>
13. Depreciation and Amortization Expense	1,177,880	1,400,229	1,284,371	112,728
14. Tax Expense - Property & Gross Receipts		185,928	170,400	13,533
15. Tax Expense - Other	4,012	7,473	9,000	603
16. Interest on Long-Term Debt	707,510	772,211	766,160	74,791
17. Interest Charged to Construction - Credit				
18. Interest Expense - Other	22,425	15,803	18,000	2,398
19. Other Deductions		6,383	8,000	89
<b>20. Total Cost of Electric Service (12 thru 19)</b>	<b>12,959,288</b>	<b>15,172,548</b>	<b>13,931,486</b>	<b>1,641,492</b>
<b>21. Patronage Capital &amp; Operating Margins (1 minus 20)</b>	<b>735,124</b>	<b>110,837</b>	<b>533,340</b>	<b>89,753</b>
22. Non Operating Margins - Interest	12,670	57,004	12,000	8,063
23. Allowance for Funds Used During Construction				
24. Income (Loss) from Equity Investments	(151,094)	90,652	70,129	15,417
25. Non Operating Margins - Other	172,383	126,551	126,000	10,546
26. Generation and Transmission Capital Credits				
27. Other Capital Credits and Patronage Dividends	43,074	22,673	6,000	9,364
28. Extraordinary Items				
<b>29. Patronage Capital or Margins (21 thru 28)</b>	<b>812,157</b>	<b>407,717</b>	<b>747,469</b>	<b>133,143</b>

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

FINANCIAL AND OPERATING REPORT  
ELECTRIC DISTRIBUTION

BORROWER DESIGNATION

VA0002

PERIOD ENDED

December 2022

INSTRUCTIONS - See help in the online application.

PART B. DATA ON TRANSMISSION AND DISTRIBUTION PLANT

ITEM	YEAR-TO-DATE		ITEM	YEAR-TO-DATE	
	LAST YEAR (a)	THIS YEAR (b)		LAST YEAR (a)	THIS YEAR (b)
1. New Services Connected	68	59	5. Miles Transmission		
2. Services Retired	21	33	6. Miles Distribution -- Overhead	999.00	999.19
3. Total Services in Place	7,854	7,361	7. Miles Distribution - Underground	212.00	212.46
4. Idle Services (Exclude Seasonals)	522	37	8. Total Miles Energized (5 + 6 + 7)	1,211.00	1,211.65

PART C. BALANCE SHEET

ASSETS AND OTHER DEBITS		LIABILITIES AND OTHER CREDITS	
1. Total Utility Plant in Service	51,232,535	30. Memberships	31,245
2. Construction Work in Progress	499,228	31. Patronage Capital	11,807,420
3. Total Utility Plant (1 + 2)	51,731,763	32. Operating Margins - Prior Years	0
4. Accum. Provision for Depreciation and Amort.	15,611,524	33. Operating Margins - Current Year	118,103
5. Net Utility Plant (3 - 4)	36,120,239	34. Non-Operating Margins	1,105,029
6. Non-Utility Property (Net)	7,021	35. Other Margins and Equities	507,238
7. Investments in Subsidiary Companies	(119,421)	36. Total Margins & Equities (30 thru 35)	13,569,035
8. Invest. in Assoc. Org. - Patronage Capital	157,259	37. Long-Term Debt - RUS (Net)	480,397
9. Invest. in Assoc. Org. - Other - General Funds	0	38. Long-Term Debt - FFB - RUS Guaranteed	22,502,436
10. Invest. in Assoc. Org. - Other - Nongeneral Funds	404,627	39. Long-Term Debt - Other - RUS Guaranteed	0
11. Investments in Economic Development Projects	0	40. Long-Term Debt Other (Net)	1,044,275
12. Other Investments	140,238	41. Long-Term Debt - RUS - Econ. Devel. (Net)	0
13. Special Funds	0	42. Payments - Unapplied	0
14. Total Other Property & Investments (6 thru 13)	589,724	43. Total Long-Term Debt (37 thru 41 - 42)	24,027,108
15. Cash - General Funds	1,313,072	44. Obligations Under Capital Leases - Noncurrent	231,078
16. Cash - Construction Funds - Trustee	5	45. Accumulated Operating Provisions and Asset Retirement Obligations	0
17. Special Deposits	0	46. Total Other Noncurrent Liabilities (44 + 45)	231,078
18. Temporary Investments	0	47. Notes Payable	0
19. Notes Receivable (Net)	0	48. Accounts Payable	1,868,048
20. Accounts Receivable - Sales of Energy (Net)	1,733,031	49. Consumers Deposits	220,258
21. Accounts Receivable - Other (Net)	338,621	50. Current Maturities Long-Term Debt	867,188
22. Renewable Energy Credits	0	51. Current Maturities Long-Term Debt - Economic Development	0
23. Materials and Supplies - Electric & Other	787,795	52. Current Maturities Capital Leases	12,593
24. Prepayments	19,180	53. Other Current and Accrued Liabilities	372,472
25. Other Current and Accrued Assets	109,844	54. Total Current & Accrued Liabilities (47 thru 53)	3,340,559
26. Total Current and Accrued Assets (15 thru 25)	4,301,548	55. Regulatory Liabilities	0
27. Regulatory Assets	126,164	56. Other Deferred Credits	0
28. Other Deferred Debits	30,105	57. Total Liabilities and Other Credits (36 + 43 + 46 + 54 thru 56)	41,167,780
29. Total Assets and Other Debits (5+14+26 thru 28)	41,167,780		

<p style="text-align: center;">UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE FINANCIAL AND OPERATING REPORT ELECTRIC DISTRIBUTION</p>	<p style="text-align: center;">BORROWER DESIGNATION  VA0002</p>
<p>INSTRUCTIONS - See help in the online application.</p>	<p>PERIOD ENDED December 2022</p>
<p><b>PART D. NOTES TO FINANCIAL STATEMENTS</b></p>	

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE FINANCIAL AND OPERATING REPORT ELECTRIC DISTRIBUTION	BORROWER DESIGNATION VA0002
INSTRUCTIONS - See help in the online application.	PERIOD ENDED December 2022
<b>PART D. CERTIFICATION LOAN DEFAULT NOTES</b>	

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

FINANCIAL AND OPERATING REPORT  
ELECTRIC DISTRIBUTION

BORROWER DESIGNATION VA0002

PERIOD ENDED December 2022

INSTRUCTIONS - See help in the online application.

**PART E. CHANGES IN UTILITY PLANT**

PLANT ITEM	BALANCE BEGINNING OF YEAR (a)	ADDITIONS (b)	RETIREMENTS (c)	ADJUSTMENTS AND TRANSFERS (d)	BALANCE END OF YEAR (e)
1. Distribution Plant	41,427,773	6,986,880	1,526,398		46,888,255
2. General Plant	2,713,745	631,980	175,554		3,170,171
3. Headquarters Plant	1,019,367	13,316			1,032,683
4. Intangibles	1,273				1,273
5. Transmission Plant	28,607		2,237		26,370
6. Regional Transmission and Market Operation Plant		105,285	27,231		78,054
7. All Other Utility Plant	35,730				35,730
8. Total Utility Plant in Service (1 thru 7)	45,226,495	7,737,461	1,731,420		51,232,536
9. Construction Work in Progress	3,793,911	(3,294,684)			499,227
10. Total Utility Plant (8 + 9)	49,020,406	4,442,777	1,731,420		51,731,763

**PART F. MATERIALS AND SUPPLIES**

ITEM	BALANCE BEGINNING OF YEAR (a)	PURCHASED (b)	SALVAGED (c)	USED (NET) (d)	SOLD (e)	ADJUSTMENT (f)	BALANCE END OF YEAR (g)
1. Electric	481,106	2,433,684		2,335,064			579,726
2. Other	171,637	422,356		385,925			208,068

**PART G. SERVICE INTERRUPTIONS**

ITEM	AVERAGE MINUTES PER CONSUMER BY CAUSE				TOTAL (e)
	POWER SUPPLIER (a)	MAJOR EVENT (b)	PLANNED (c)	ALL OTHER (d)	
1. Present Year	9.910	202.710	56.710	751.560	1,020.890
2. Five-Year Average	19.112	848.356	54.188	558.722	1,480.378

**PART H. EMPLOYEE-HOUR AND PAYROLL STATISTICS**

1. Number of Full Time Employees	28	4. Payroll - Expensed	1,415,227
2. Employee - Hours Worked - Regular Time	54,700	5. Payroll - Capitalized	306,536
3. Employee - Hours Worked - Overtime	3,427	6. Payroll - Other	293,157

**PART I. PATRONAGE CAPITAL**

ITEM	DESCRIPTION	THIS YEAR (a)	CUMULATIVE (b)
1. Capital Credits - Distributions	a. General Retirements	1,575,763	4,816,271
	b. Special Retirements		
	c. Total Retirements (a + b)	1,575,763	4,816,271
2. Capital Credits - Received	a. Cash Received From Retirement of Patronage Capital by Suppliers of Electric Power		
	b. Cash Received From Retirement of Patronage Capital by Lenders for Credit Extended to the Electric System	4,066	
	c. Total Cash Received (a + b)	4,066	

**PART J. DUE FROM CONSUMERS FOR ELECTRIC SERVICE**

1. Amount Due Over 60 Days	\$ 42,861	2. Amount Written Off During Year	\$ 6,403
----------------------------	-----------	-----------------------------------	----------

**ENERGY EFFICIENCY AND CONSERVATION LOAN PROGRAM**

1. Anticipated Loan Delinquency %		4. Anticipated Loan Default %	
2. Actual Loan Delinquency %		5. Actual Loan Default %	
3. Total Loan Delinquency Dollars YTD	\$	6. Total Loan Default Dollars YTD	\$

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT          ELECTRIC DISTRIBUTION</b>	BORROWER DESIGNATION  VA0002
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INSTRUCTIONS - See help in the online application	PERIOD ENDED December 2022
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**PART K. kWh PURCHASED AND TOTAL COST**

No	ITEM	SUPPLIER CODE	RENEWABLE ENERGY PROGRAM NAME	RENEWABLE FUEL TYPE	kWh PURCHASED	TOTAL COST	AVERAGE COST (Cents/kWh)	INCLUDED IN TOTAL COST - FUEL COST ADJUSTMENT	INCLUDED IN TOTAL COST - WHEELING AND OTHER CHARGES
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	Southeastern Power Admin	29304			3,129,664	334,693	10.69	3,925	
2	Appalachian Power Company	733			54,346,706	5,032,471	9.26	70,893	
3	Dominion Virginia Power	19876			36,742,576	2,579,784	7.02	47,835	
	Total				94,218,946	7,946,948	8.43	122,653	



UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT          ELECTRIC DISTRIBUTION</b>	<b>BORROWER DESIGNATION</b>  VA0002
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INSTRUCTIONS - See help in the online application	<b>PERIOD ENDED</b> December 2022
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**PART K. kWh PURCHASED AND TOTAL COST**

No	Comments
1	
2	
3	

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE FINANCIAL AND OPERATING REPORT ELECTRIC DISTRIBUTION		BORROWER DESIGNATION VA0002	
INSTRUCTIONS - See help in the online application.		PERIOD ENDED December 2022	
<b>PART L. LONG-TERM LEASES</b>			
No	NAME OF LESSOR (a)	TYPE OF PROPERTY (b)	RENTAL THIS YEAR (c)
TOTAL			

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT          ELECTRIC DISTRIBUTION</b>	<b>BORROWER DESIGNATION</b> VA0002
	<b>PERIOD ENDED</b> December 2022

INSTRUCTIONS - See help in the online application.

**PART M. ANNUAL MEETING AND BOARD DATA**

<b>1. Date of Last Annual Meeting</b> 6/4/2022	<b>2. Total Number of Members</b> 5,804	<b>3. Number of Members Present at Meeting</b> 20	<b>4. Was Quorum Present?</b> Y
<b>5. Number of Members Voting          by Proxy or Mail</b> 735	<b>6. Total Number of Board Members</b> 6	<b>7. Total Amount of Fees and Expenses          for Board Members</b> \$ 44,510	<b>8. Does Manager Have          Written Contract?</b> N

RUS Financial and Operating Report Electric Distribution

Revision Date 2014

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE FINANCIAL AND OPERATING REPORT ELECTRIC DISTRIBUTION			BORROWER DESIGNATION VA0002		
INSTRUCTIONS - See help in the online application.			PERIOD ENDED December 2022		
<b>PART N. LONG-TERM DEBT AND DEBT SERVICE REQUIREMENTS</b>					
No	ITEM	BALANCE END OF YEAR (a)	INTEREST (Billed This Year) (b)	PRINCIPAL (Billed This Year) (c)	TOTAL (Billed This Year) (d)
1	Rural Utilities Service (Excludes RUS - Economic Development Loans)	480,397	687,767	538,197	1,225,964
2	National Rural Utilities Cooperative Finance Corporation	788,044	68,456	281,526	349,982
3	CoBank, ACB	256,230	13,305	90,887	104,192
4	Federal Financing Bank	22,502,436	30,553	35,030	65,583
5	RUS - Economic Development Loans				
6	Payments Unapplied				
7	Principal Payments Received from Ultimate Recipients of IRP Loans				
8	Principal Payments Received from Ultimate Recipients of REDL Loans				
9	Principal Payments Received from Ultimate Recipients of EE Loans				
10	Farm Credit Leasing	231,078	7,966	58,840	66,806
	<b>TOTAL</b>	<b>24,258,185</b>	<b>808,047</b>	<b>1,004,480</b>	<b>1,812,527</b>

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT          ELECTRIC DISTRIBUTION</b>	BORROWER DESIGNATION VA0002
INSTRUCTIONS - See help in the online application.	PERIOD ENDED December 2022

**PART O. POWER REQUIREMENTS DATABASE - ANNUAL SUMMARY**

CLASSIFICATION	CONSUMER SALES & REVENUE DATA	DECEMBER (a)	AVERAGE NO. CONSUMERS SERVED (b)	TOTAL YEAR TO DATE (c)
1. Residential Sales (excluding seasonal)	a. No. Consumers Served	6,026	6,021	
	b. kWh Sold			71,479,433
	c. Revenue			12,375,500
2. Residential Sales - Seasonal	a. No. Consumers Served	822	825	
	b. kWh Sold			3,310,224
	c. Revenue			792,463
3. Irrigation Sales	a. No. Consumers Served			
	b. kWh Sold			
	c. Revenue			
4. Comm. and Ind. 1000 KVA or Less	a. No. Consumers Served	394	392	
	b. kWh Sold			4,137,807
	c. Revenue			694,945
5. Comm. and Ind. Over 1000 KVA	a. No. Consumers Served	41	41	
	b. kWh Sold			6,859,656
	c. Revenue			911,573
6. Public Street & Highway Lighting	a. No. Consumers Served			
	b. kWh Sold			
	c. Revenue			
7. Other Sales to Public Authorities	a. No. Consumers Served	78	78	
	b. kWh Sold			728,641
	c. Revenue			136,445
8. Sales for Resale - RUS Borrowers	a. No. Consumers Served			
	b. kWh Sold			
	c. Revenue			
9. Sales for Resale - Other	a. No. Consumers Served			
	b. kWh Sold			
	c. Revenue			
10. Total No. of Consumers (lines 1a thru 9a)		7,361	7,357	
11. Total kWh Sold (lines 1b thru 9b)				86,515,761
12. Total Revenue Received From Sales of Electric Energy (lines 1c thru 9c)				14,910,926
13. Transmission Revenue				
14. Other Electric Revenue				372,459
15. kWh - Own Use				178,283
16. Total kWh Purchased				94,218,946
17. Total kWh Generated				
18. Cost of Purchases and Generation				7,946,948
19. Interchange - kWh - Net				
20. Peak - Sum All kW Input (Metered) Non-coincident <input checked="" type="checkbox"/> Coincident <input type="checkbox"/>				31,803

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

**FINANCIAL AND OPERATING REPORT  
ELECTRIC DISTRIBUTION**

BORROWER DESIGNATION VA0002

PERIOD ENDED December 2022

INSTRUCTIONS - See help in the online application.

**PART P. ENERGY EFFICIENCY PROGRAMS**

CLASSIFICATION	ADDED THIS YEAR			TOTAL TO DATE		
	No. of Consumers (a)	Amount Invested (b)	Estimated MMBTU Savings (c)	No. of Consumers (d)	Amount Invested (e)	Estimated MMBTU Savings (f)
1. Residential Sales (excluding seasonal)						
2. Residential Sales - Seasonal						
3. Irrigation Sales						
4. Comm. and Ind. 1000 KVA or Less						
5. Comm. and Ind. Over 1000 KVA						
6. Public Street and Highway Lighting						
7. Other Sales to Public Authorities						
8. Sales for Resale -- RUS Borrowers						
9. Sales for Resale -- Other						
<b>10. Total</b>						

UNITED STATES DEPARTMENT OF AGRICULTURE  
RURAL UTILITIES SERVICE

BORROWER DESIGNATION  
VA0002

FINANCIAL AND OPERATING REPORT  
ELECTRIC DISTRIBUTION  
INVESTMENTS, LOAN GUARANTEES AND LOANS

PERIOD ENDED  
December 2022

INSTRUCTIONS - Reporting of investments is required by 7 CFR 1717, Subpart N. Investment categories reported on this Part correspond to Balance Sheet items in Part C. Identify all investments in Rural Development with an 'X' in column (e). Both 'Included' and 'Excluded' Investments must be reported. See help in the online application.

**PART Q. SECTION I. INVESTMENTS (See Instructions for definitions of Income or Loss)**

No	DESCRIPTION (a)	INCLUDED (\$) (b)	EXCLUDED (\$) (c)	INCOME OR LOSS (\$) (d)	RURAL DEVELOPMENT (e)
<b>1</b>	<b>Non-Utility Property (NET)</b>				
	Non Utility Property Net	7,021			
	Totals	7,021			
<b>2</b>	<b>Investments in Associated Organizations</b>				
	Investments in Associated Organizations	442,465			
	Totals	442,465			
<b>4</b>	<b>Other Investments</b>				
	Other Investments	140,238			
	Totals	140,238			
<b>6</b>	<b>Cash - General</b>				
	Cash - General	1,313,077			
	Totals	1,313,077			
<b>9</b>	<b>Accounts and Notes Receivable - NET</b>				
	Accounts & Notes Receivable - NET	338,621			
	Totals	338,621			
<b>11</b>	<b>TOTAL INVESTMENTS (1 thru 10)</b>	<b>2,241,422</b>			

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT</b> <b>ELECTRIC DISTRIBUTION</b> <b>INVESTMENTS, LOAN GUARANTEES AND LOANS</b>	BORROWER DESIGNATION VA0002  PERIOD ENDED December 2022
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INSTRUCTIONS - Reporting of investments is required by 7 CFR 1717, Subpart N. Investment categories reported on this Part correspond to Balance Sheet items in Part C. Identify all investments in Rural Development with an 'X' in column (e). Both 'Included' and 'Excluded' Investments must be reported. See help in the online application.

PART Q. SECTION II. LOAN GUARANTEES					
No	ORGANIZATION (a)	MATURITY DATE (b)	ORIGINAL AMOUNT (\$) (c)	LOAN BALANCE (\$) (d)	RURAL DEVELOPMENT (e)
	TOTAL				
	TOTAL (Included Loan Guarantees Only)				



UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>FINANCIAL AND OPERATING REPORT</b> <b>ELECTRIC DISTRIBUTION</b> <b>INVESTMENTS, LOAN GUARANTEES AND LOANS</b>	BORROWER DESIGNATION VA0002  PERIOD ENDED December 2022
--	---

INSTRUCTIONS - Reporting of investments is required by 7 CFR 1717, Subpart N. Investment categories reported on this Part correspond to Balance Sheet items in Part C. Identify all investments in Rural Development with an 'X' in column (e). Both 'Included' and 'Excluded' Investments must be reported. See help in the online application.

**SECTION III. RATIO**

RATIO OF INVESTMENTS AND LOAN GUARANTEES TO UTILITY PLANT [Total of Included Investments (Section I, 11b) and Loan Guarantees - Loan Balance (Section II, 5d) to Total Utility Plant (Line 3, Part C) of this report]	4.33 %
--	--------

**SECTION IV. LOANS**

No	ORGANIZATION (a)	MATURITY DATE (b)	ORIGINAL AMOUNT (\$) (c)	LOAN BALANCE (\$) (d)	RURAL DEVELOPMENT (e)
1	Employees, Officers, Directors				
2	Energy Resources Conservation Loans				
	<b>TOTAL</b>				

## 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.).

<b>Source</b>	<b>Amount</b>	<b>%</b>	<b>Status</b>
REQUESTED VATI	\$2,332,353.00	70%	Pending
CBEC	\$666,387.00	20%	Secured
Alleghany County – Construction & Admin.	\$353,193.00	10%	Secured
<b>TOTAL</b>	<b>\$3,351,933.00</b>	<b>100%</b>	

# **ATTACHMENT 10**

## **Documentation of Match Funding**

Craig-Botetourt Electric Cooperative (CBEC) will be providing the planning, engineering, materials, and labor for the installation of the infrastructure necessary to complete this project. This cost for CBEC will be \$666,387.00 and is a 20% match. See attached email. The complete proposal is located in Attachment 13.

The Alleghany County Board of Supervisors has available funds in their budget. If approved, the County will encumber \$333,193.00 of those funds for their 10% match of total project costs. See attached resolution R-23-78 adopted by the Board of Supervisors.

# CBEC's proposal 12/5/2023

From: Jeff Ahearn <jeff.ahearn@cbec.coop>  
Sent: Tue, Dec 5, 2023 at 3:42 pm  
To: rwalters@co.alleghany.va.us  
Cc: mmunsey@co.alleghany.va.us

[image001.png](#) (8.2 KB)   [image002.png](#) (359.2 KB)   [image003.png](#) (101.2 KB)  
[Alleghany County pricing submission 12.2023-CBEC.pdf](#) (3.6 MB)   [Network Topo.pdf](#) (495.4 KB)   – [Download all](#)

Reid, The board gave me permission to move forward with this proposal, with CBEC contributing 20% of the total construction cost.  
Please let me know if you have any questions.

<b>ESTIMATED GRAND TOTAL</b>	\$3,331,933.00
<b>Craig-Botetourt Electric's Contribution=</b>	<b>\$666,386.60</b> 20%
<b>Total, Less CBEC's Contribution</b>	<b>\$2,665,546.40</b>

Thank you for this opportunity and consideration.,

**Jeff M. Ahearn**  
Chief Executive Officer  
Craig-Botetourt Electric Cooperative &  
Bee Online Advantage  
26198 Craigs Creek Road  
New Castle, Virginia 24127  
(540) 864-5121 ext 122



"Craig-Botetourt Electric Cooperative is an equal opportunity provider and employer"

**BOARD OF SUPERVISORS  
COUNTY OF ALLEGHANY  
Covington, Virginia**

At a regular meeting of the Board of Supervisors, Alleghany County, Virginia held on Tuesday, December 5, 2023 at 7:00 P.M., in the Board Room of the County Governmental Complex thereof, the following action was taken:

---

<u>MEMBERS:</u>	<u>VOTE:</u>
G. Matt Garten, Chairman	YES
James M. Griffith, Vice-Chairman	YES
Stephen A. Bennett	YES
Shannon P. Cox	YES
Gregory A. Dodd	YES
Ronald S. Goings	YES
Cletus W. Nicely	YES

---

On motion of Mrs. Cox, seconded by Mr. Griffith, that the following resolution be adopted:

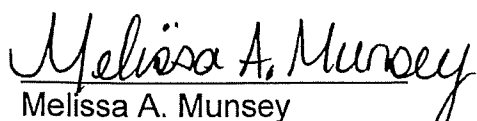
BE IT RESOLVED that the Alleghany County Board of Supervisors authorize Mr. Reid Walters, County Administrator, to proceed with applying for funding through the Virginia Telecommunications Initiative (VATI) for the Crows-Hematite Broadband Initiative.

BE IT FURTHER RESOLVED that the Board authorize Mr. Walters to enter into an agreement with Craig-Botetourt Electric Cooperative in relation to the abovementioned VATI grant if awarded.

BE IT FINALLY RESOLVED that the Board agrees to set aside funding as its 10% match for the abovementioned VATI grant to be utilized if awarded.

Unanimously adopted.

A COPY TESTE:

  
Melissa A. Munsey  
Deputy Clerk to the Board

# Attachment 11

## Prior Expended Match Form

Local Government expenditures incurred after September 21, 2022, one year prior to the application open date, are eligible to be included in the application as match funds. Incurred expenses must be related to the proposed VATI project and meet VATI criteria. Expenditures incurred by internet service providers after May 11, 2022 are also eligible to be included in the application as match funds. For these match funds to be considered, the co-applicant internet service provider and local government applicant must have been unsuccessful in the FY23 round of VATI. Please complete the table below to explain any prior expended funds which have been considered as matching funds in this application. Incurred expenses must also be directly related to the proposed VATI project and meet VATI criteria. DHCD staff reserves the right to make administrative determinations on the validity of matching funds and accept a proportion of the funds when necessary.

<b>Prior Expended Match Table</b>				
Expense Incurred By: (Local Government or Internet Service Provider)	Source: (Local, State, Federal, Other, Loan, etc.) Please list fund source (i.e. Local Fiscal Recovery Fund)	Amount:	Brief Description: (Construction, Administration Expenses, or Other)	How is this expense directly related to the proposed VATI project? If more space is needed, please describe in detail below the table with numbered references in the cells below.
N/A	N/A	N/A	N/A	N/A

## CDBG Derivation of Cost

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Program Management \$	389,660.00 \$	145,856.25 \$	243,803.75	Craig-Botetourt Electric Company	12/14/2023
Program Management - Allegheny County \$	20,000.00 \$	- \$	20,000.00	Allegheny County	12/14/2023
Performance Bond \$	26,944.00 \$	- \$	26,944.00	Craig-Botetourt Electric Company	12/14/2023
OSP Engineering \$	147,653.00 \$	110,739.75 \$	36,913.25	Craig-Botetourt Electric Company	12/14/2023
ISP Equipment \$	226,282.00 \$	169,711.50 \$	56,570.50	Craig-Botetourt Electric Company	12/14/2023
Drop Installation \$	28,035.00 \$	21,026.25 \$	7,008.75	Craig-Botetourt Electric Company	12/14/2023
OSP Construction - Ariel \$	2,252,490.00 \$	1,689,367.50 \$	563,122.50	Craig-Botetourt Electric Company	12/14/2023
Underground Construction \$	24,640.00 \$	18,480.00 \$	6,160.00	Craig-Botetourt Electric Company	12/14/2023
OSP Construction - Fiber Splicing and Testing \$	236,229.00 \$	177,171.75 \$	59,057.25	Craig-Botetourt Electric Company	12/14/2023
	<b>\$ 3,351,933.00</b>	<b>\$ 2,332,353.00</b>	<b>\$ 1,019,580.00</b>		
	<b>100%</b>	<b>70%</b>	<b>30%</b>		



# Fujitsu Network Communications Proposal

To

Craig-Botetourt Electric Cooperative (CBEC)

For

Allegheny County Broadband (BB) Path

Design, Engineering, Construction, and Maintenance

## 1. INTRODUCTION

This proposal describes the design plan and unit pricing utilized to deliver to CBEC in support of its Allegheny County BB Path project. The success of this project relies heavily upon key CBEC employees and/or CBEC's advisors' involvement as part of the engagement team.

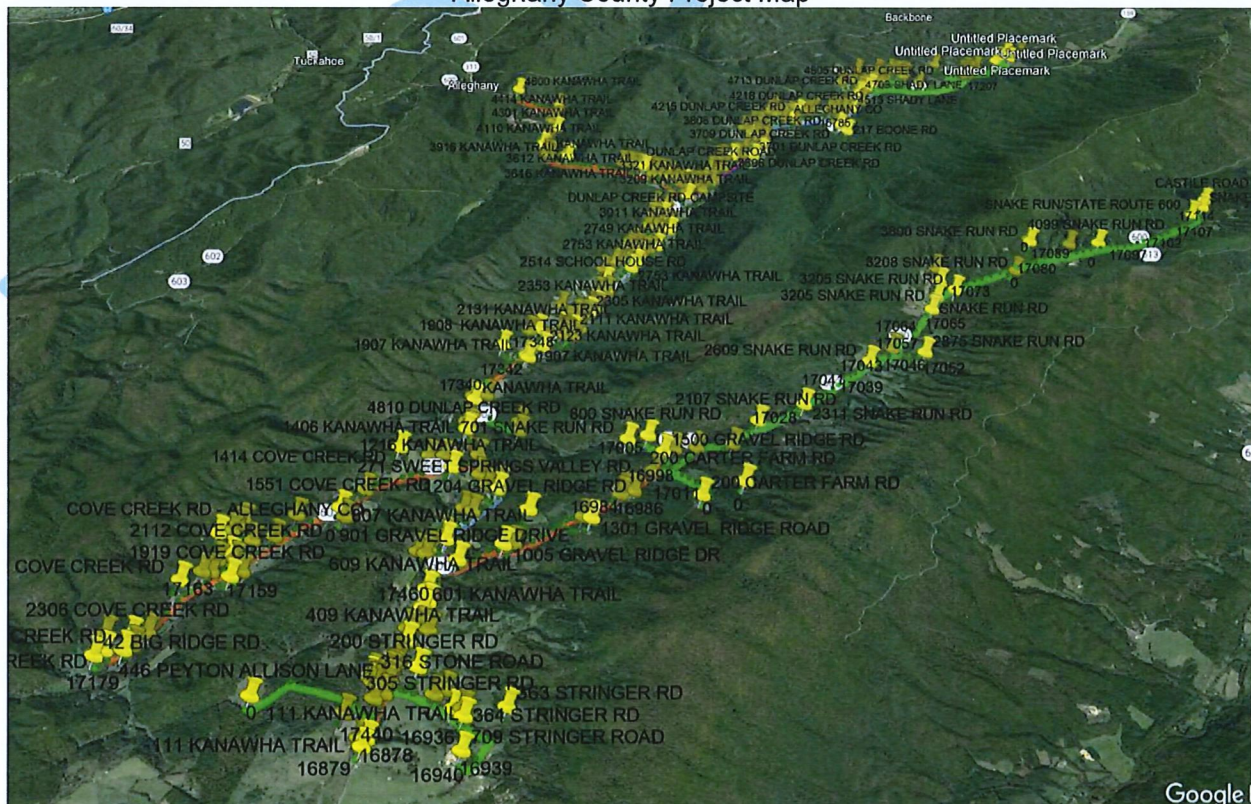
Estimated breakout of the addresses within the Allegheny BB Path footprint:

Name of Boundary	# Residential addresses	Total Addresses	# Of ONTs (50% take rate)
Allegheny County Mainline	370	370	185

## Construction Design Assumptions

- 158,665 feet (30.05 Miles) construction path footage
- 625 poles to attach
- 185 drops with a maximum of 500 feet
- Make-Ready is not included; CBEC will complete as required
- Fujitsu will supply ONTs and drop material
- CBEC will supply/perform drop installation labor for all drops

Allegheny County Project Map





## 2. SCHEDULE

Upon receipt of CBEC's purchase order, Fujitsu and CBEC will develop a mutually agreed detailed schedule for the services as defined in this proposal. It is anticipated that the build will take approximately 12 months to complete, depending upon moratoriums and material availability.

## 3. PRICING

Fujitsu's fixed unit price for the Program Management, Design, Engineering, Construction and Maintenance services for the Alleghany County BB Path project is defined below. The Work Unit quantities are budgetary estimates and are subject to change based on actual conditions found and on the duration of the project. Pricing is valid for 180 days. Bond discussions will take place upon award of the project.

Table 5-1 – Alleghany County Pricing							
Unit ID	Description	Short Description	Unit	Labor Unit Price	Material Unit Price	Qty Units	Total Price
<b>Program Management</b>							
PM-18-PMO1	Program Management- Full project management, construction management and engineering services	PMO	MON	\$ 32,471.65		12	\$ 389,660
PM-18-BOND	Performance Bond	Bond	EA	\$ 26,943.86		1	\$ 26,944
<b>OSP Engineering</b>							
OSPE-11-1102	To include everything from preliminary design, basemap collection, data center boundaries, serving area boundaries, cabinet locations, underground and aerial routes, vault locations and sizes, AP locations and boundaries, splice enclosures types and locations, fiber cable routing and size of backbone, distribution and access level fiber. Design to minimize cost and maximize efficiency. Additional costs to cover purchasing will be included as an additional item.	ENG-HLD-High level design	HR	\$ 335.41		80	\$ 26,833
OSPE-11-1104	Includes the field walk and verification of constructible features of the design. Making adjustments to design or recommendation and supporting documentation to adjust designs. Review of addresses and base map features, Will also ensure delivery to homes and network access points are placed correctly. Activities to include high level design pole verification, utility verification, parcel verification, address verification, design verification, routing obstacles, aerial to underground percentage verification, AP placement, splice enclosure placement, cabinet placement. May include additional MOB (mobilization) to meet construction contractor if not known at time of engineering.	ENG-FE-Field Engineering ride out - AERSECTION	FT	\$ 0.37		158665	\$ 58,706
OSPE-11-1103	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 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.	ENG-LLD-Detailed design	FT	\$ 0.26		158665	\$ 41,253
OSPE-11-1109	As-builtting - re-define conversion to GIS format, as-built validation, updated splice schematics, updated splicing sheets	As Builts	FT	\$ 0.13		158665	\$ 20,861

ISP Equipment							
	Redundant FX-4/FANT-H Starter Kit VM, 16port Multi-PON Card, w/o optics. Each kit includes: NFXS-E FX-4 shelf w/ BFAN-X Filler FX 25mm without pre-cabling lot ANSI FX-4 FIBER ROUTING KIT-FX-4 ANSI VERT ISAM FX 16port Multi-PON Line board FANT-H,7360 ISAM FX 2600Gbps NT	3HG01514VA	Each		\$ 17,647.06	1	\$ 17,647
						1	
						4	
						1	
						1	
						1	
						2	
EQP-11-OLT	Line Cards and Optics ISAM FX 16port Multi-PON Line board ISAM FD/FX GPON SFP OLT (I-temp) Class B+ GPON SFP C+ (I-temp) OLT SFP+ Pluggable Optical Module, 10GE LR SM 1310nm, 40°C to +85°C, Duplex LC connector, 10km (11dB)  SFP+ Pluggable Optical Module, 10GE ER SM 1550nm, 40°C to +85°C, Duplex LC connector, 40km (11dB)  SFP+ Pluggable Optical Module, 10GE ZR SM 1550nm, 40°C to +85°C, Duplex LC connector, 80km (24dB)			\$ -	\$ 9,411.76	1	\$ 9,412
				\$ -	\$ 123.53	18	\$ 2,224
				\$ -	\$ 174.12	5	\$ 871
				\$ -	\$ 249.41	4	\$ 998
				\$ -	\$ 398.82	4	\$ 1,595
				\$ -	\$ 882.35	4	\$ 3,529
	ONTs G-2426G-B,NAR,US Plug,GPON ONT,2POTS,4xGE UNI,WIFI 6 4+4,Nokia Logo,secured boot			\$ -	\$ 158.82	185	\$ 29,382
3EM23483AAAA	Element Management Software A5520 AMS and 5529 Apps - Starter System RTU per Subscriber				\$ 8.24	185	\$ 1,524
31N00064AA	Hosted WHW Portal Annual SaaS license for Cloud Controller: Home Console (NWCC L1) plus HDM - Nokia hosting Shared - Hosting Standard SLA				\$ 9.66	185	\$ 1,787
TBD	Maintenance and RTU - 5 years Muni/IOC Remote Technical Support and Repair for Return - YR1 Muni/IOC Remote Technical Support and Repair for Return - YR2 Muni/IOC Remote Technical Support and Repair for Return - YR3 Muni/IOC Remote Technical Support and Repair for Return - YR4 Muni/IOC Remote Technical Support and Repair for Return - YR5 SSP-AMS, 7360, 7360/7368 per line RTU Year 1 SSP-AMS, 7360, 7360/7368 per line RTU Year 2 SSP-AMS, 7360, 7360/7368 per line RTU Year 3 SSP-AMS, 7360, 7360/7368 per line RTU Year 4 SSP-AMS, 7360, 7360/7368 per line RTU Year 5	Main/RTU	EA	\$ -	\$ 13,429.71	1	\$ 13,430
						1	
						1	
						1	
						1	
						185	
						185	
						185	
						185	
						185	
EF-11-6101	Test and turn-up of OLT Cards	Test and Turn-up	EA	\$ 21,742.03		1	\$ 21,742
NDI-CONSULT	Professional Services - 20 Hour Blocks	Prof Svcs	EA	\$ 15,369.23		4	\$ 61,477
OSP-11-OLT	OLT Installation	OLT Installation		\$ 37,899.08	\$ 22,764.62	1	\$ 60,664
Drop Installation							
OSP-15-15001	The average drop fiber length is 350 feet	SEAO-Placement of aerial drop fiber	EA		\$ 113.04	248	\$ 28,035
OSP Construction							
OSP Construction - Aerial Construction							
OSP-6-06007(x)	Consists of one (1) foot of self supporting filled fiber optic cable in place including all supporting hardware, cable guards, insulating tapes, and bonding of the armor (if present) and supporting member Place Aerial Splice Rack	CFO(XX)-Place self-support aerial cable	Fl	\$ 1.78	\$ 3.87	180451	\$ 1,019,215
			Ea	\$ 342.86		121	\$ 41,486
OSP-2a-02019(F)	This includes clearing path for new route in areas where branches and limbs prevent installation of strand and fiber optic cable. 1 foot in length and (X)' in width	R1-(X)-Tree Trimming	Ea	\$ 6.79		9520	\$ 64,600
	Unit includes placing a 2 inch X 8' riser with all pole attachment hardware	BM81-Install riser	Ea	\$ 69.23		2	\$ 138.46
OSP-8-08004	This unit consists of a Fiber Optic FDH mounted on a pole and all labor and materials required to complete the installation.	BDSO(XX)A-Placement of aerial FDH cabinet on utility pole	Ea	\$ 1,476.92	\$ 15,080.40	2	\$ 33,115
OSP-6-06004(mstv)	MST Placement at Pole	MST Placement	Ea	\$ 400.00	\$ 258.64	108	\$ 71,133
OSP-1-01011(1)	Install Down Guy and Auxiliary Eye	Down Guy and Aux Eye	Ea	\$ 225.15	\$ 95.76	165	\$ 52,950

Underground Construction							
OSPI-11-OLT	This covers placement of FDH with OLT cabinet and material cost	Placement of OLT cabinet	Ea	\$ 1,874.99	\$ 22,764.62	1	\$ 24,640
OSP Construction - Fiber Splicing and Testing							
OSPI-7-07001(M)	Prep of medium sized splice closure, these are used for splicing multiport tails to access cables and small transition splicing (less than 96 fiber to splice)	HO8-Prep of Medium Fiber Optic Splice Closure	Ea	\$ 461.54	\$ 323.38	116	\$ 91,051
OSPI-7-07001(D)	Prep of a large splice closure, these are used for large transition splicing (more than 96 fibers to splice)	HO8-Prep of Large Fiber Optic Splice Closure	Ea	\$ 637.25	\$ 555.44	10	\$ 11,927
OSPI-7-07004	This unit contains the preparation of fiber cables into the LCP cabinet, along with the buffer tubes and fibers into the splice trays. The material price is for the optical splitters required at a 35% take rate.	HO4-Prep of a cabinet and all fibers terminating at cabinet	Ea	\$ 646.15		3	\$ 1,938
OSPI-9-09001	Consists of all labor and material and/or testing necessary to complete a single fiber optic splice. Fusion splicing is required	HO1(1-48)-Splice 1-48 fibers	Ea	\$ 55.38		864	\$ 47,848
OSPI-9-09002	Consists of all labor and material and/or testing necessary to complete a single fiber optic splice. Fusion splicing is required	HO1(49-144)-Splice 49-144 fibers	Ea	\$ 46.15		576	\$ 26,582
OSPI-9-09003	Consists of all labor and material and/or testing necessary to complete a single fiber optic splice. Fusion splicing is required	HO1(145-432)-Splice 145-432 fibers	Ea	\$ 36.92		650	\$ 23,998
OSPI-10-10002	Perform power meter light source test on a fiber	HOT -Power Meter Test		\$ 22.15		584	\$ 12,936
OSPI-10-10001	This unit compensates for pre-testing of "owner furnished" fiber optic cable prior to placement with OTDR and a power	HOT-Test fiber	Ea	\$ 17.08		1168	\$ 19,949

Description -	cbec- materiel	ORDER QTY	CBEC INSTALL QTY	MATERIAL UNIT COST	MATERIAL TOTAL COST	INSTALL COST PER FT	INSTALL TOTAL COST	CONTRACTOR NAME	MATERIAL & INSTALL COST	LEAD TIME
BACKBONE										
FIBER, 24 CT ADSS CABLE	ARIAL			\$ 0.41	\$0.00	\$ 1.25	\$0.00	RAW	\$0.00	GRESKO STK
FIBER, 24 CT ADSS CABLE	UG			\$ 0.41	\$0.00	\$ 1.50	\$0.00	RAW	\$0.00	GRESKO STK
CLAMP, TANGENT				\$ 29.00	\$0.00	\$ -	\$0.00	RAW	\$0.00	GRESKO STK
DEADEND, ASSEMBLY				\$ 74.75	\$0.00	\$ -	\$0.00	RAW	\$0.00	16-18 WKS ARO
FIBER, 48 CT ADSS CABLE	ARIAL			\$ 0.49	\$0.00	\$ 1.25	\$0.00	RAW	\$0.00	GRESKO STK
CLAMP, TANGENT				\$ 29.00	\$0.00	\$ -	\$0.00	RAW	\$0.00	GRESKO STK
DEADEND, ASSEMBLY MED				\$ 74.75	\$0.00	\$ -	\$0.00	RAW	\$0.00	PLP STK
FIBER, 96 CT ADSS CABLE	ARIAL			\$ 0.76	\$0.00	\$ 1.25	\$0.00	RAW	\$0.00	GRESKO STK
CLAMP, TANGENT				\$ 29.00	\$0.00	\$ -	\$0.00	RAW	\$0.00	GRESKO STK
DEADEND, ASSEMBLY MED				\$ 74.75	\$0.00	\$ -	\$0.00	RAW	\$0.00	PLP STK
FIBER, 144 ADSS CABLE	ARIAL	222000	222000	\$ 1.74	\$386,280.00	\$ 1.45	\$321,900.00	RAW	\$708,180.00	GRESKO STK
CLAMP, TANGENT		525	524	\$ 35.61	\$18,695.25	\$ -	\$0.00	RAW	\$18,695.25	GRESKO STK
DEADEND, ASSEMBLY MED		425	425	\$ 74.75	\$31,768.75	\$ -	\$0.00	RAW	\$31,768.75	GRESKO STK
FIBER, 288 ADSS CABLE	ARIAL			\$ 2.59	\$0.00	\$ 1.45	\$0.00	RAW	\$0.00	GRESKO STK
CLAMP, TANGENT				\$ 41.00	\$0.00	\$ -	\$0.00	RAW	\$0.00	GRESKO STK
DEADEND, ASSEMBLY MED				\$ 188.25	\$0.00	\$ -	\$0.00	RAW	\$0.00	GRESKO STK
BRACKET, FIBER STORAGE RACKS 175 175 \$ 188.82 \$33,043.50 \$ 150.00 \$26,250.00 RAW \$59,293.50 6-7 WKS ARO										
MST, 4 PORT				\$ 104.25	\$0.00	\$ 750.00	\$0.00	JANSON	\$0.00	8-10 WKS
MST, 8 PORT				\$ 164.72	\$0.00	\$ 750.00	\$0.00	JANSON	\$0.00	8-10 WKS
MST, 12 PORT				\$ 207.83	\$0.00	\$ 750.00	\$0.00	JANSON	\$0.00	8-10 WKS
FIBER DOME CLOSURE										
ENCLOSURE, DOME MIDSIZE	ENCLOSURE			\$ 342.48	\$0.00	\$ 750.00	\$0.00	JANSON	\$0.00	8-10 WKS
ENCLOSURE, DOME LARGE	ENCLOSURE	28	28	\$ 367.80	\$10,298.40	\$ 750.00	\$21,000.00	JANSON	\$31,298.40	8-10 WKS
ENCLOSURE, DOME BASKET TAL	ACC	28	38	\$ 33.93	\$950.04	\$ 750.00	\$28,500.00	JANSON	\$29,450.04	8-10 WKS
ENCLOSURE, DOME TRAY	ACC	115	115	\$ 26.20	\$3,013.00	\$ 750.00	\$86,250.00	JANSON	\$89,263.00	8-10 WKS
VAULT, 2' UG QUASI BOX		2	2	\$ 203.03	\$406.06	\$ 750.00	\$1,500.00	JANSON	\$1,906.06	8-10 WKS
SERVICE DROPS (50 @ 1000FT AVG)	ARIAL			\$ -	\$0.00	\$ 1.30	\$0.00	DFC / KELLY	\$0.00	
SERVICE DROPS (50 @ 1000FT AVG)	UG			\$ -	\$0.00	\$ 1.30	\$0.00	DFC / KELLY	\$0.00	
					\$0.00		\$0.00		\$0.00	

<b>ESTIMATED GRAND TOTAL</b>	<b>\$3,331,933.00</b>
<b>Craig-Botetourt Electric's Contribution=</b>	<b>\$666,386.60 20%</b>

# **ATTACHMENT 14**

## **Letters of Support**

1. Alleghany County Board of Supervisors - Resolution R-23-78
2. Senator Mark R. Warner
3. Delegate Terry L. Austin
4. Sheriff Kevin W. Hall
5. Superintendent of Alleghany Highlands Public Schools - Kimberly K. Halterman
6. Alleghany County Director of Public Safety - Jonathan Fitch
7. Former Alleghany County Director of Public Safety - Ryan Muterspaugh
8. Alleghany Highlands Chamber of Commerce Executive Director - Teresa Hammond
9. The Alleghany Foundation Executive Director - Mary Fant Donnan
10. Roanoke Valley Alleghany Regional Commission Executive Director - Jeremy Holmes
11. Roanoke Regional Partnership Executive Director - John Hull
12. Former Senior Manager of Lumos Networks, Board of Directors Member of AHEDC - Ray N. Lipes
13. Resident - Susan E. Knick
14. Resident - Naomie Quantz
15. Resident - Jimmy Hogendobler
16. Resident - Kevin Mangum

17. Resident - Scott Peters
18. Resident - Brent and Cynthia Jones
19. Resident - Robert and Anna Bean
20. Resident - Ralph Meadows
21. Resident - Cindy Howard
22. Resident - Jerry Bowers
23. Resident - Linda Snyder
24. Resident - Brian Groves
25. Resident - Carolyn and Andy Snyder
26. Resident - Rebecca Maupin
27. Resident - Erskine Graves
28. Resident - Steven Shoulders

**BOARD OF SUPERVISORS  
COUNTY OF ALLEGHANY  
Covington, Virginia**

At a regular meeting of the Board of Supervisors, Alleghany County, Virginia held on Tuesday, December 5, 2023 at 7:00 P.M., in the Board Room of the County Governmental Complex thereof, the following action was taken:

---

<u>MEMBERS:</u>	<u>VOTE:</u>
G. Matt Garten, Chairman	YES
James M. Griffith, Vice-Chairman	YES
Stephen A. Bennett	YES
Shannon P. Cox	YES
Gregory A. Dodd	YES
Ronald S. Goings	YES
Cletus W. Nicely	YES

---

On motion of Mrs. Cox, seconded by Mr. Griffith, that the following resolution be adopted:

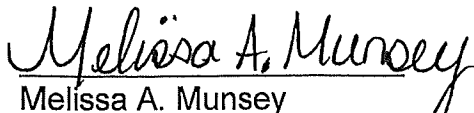
BE IT RESOLVED that the Alleghany County Board of Supervisors authorize Mr. Reid Walters, County Administrator, to proceed with applying for funding through the Virginia Telecommunications Initiative (VATI) for the Crows-Hematite Broadband Initiative.

BE IT FURTHER RESOLVED that the Board authorize Mr. Walters to enter into an agreement with Craig-Botetourt Electric Cooperative in relation to the abovementioned VATI grant if awarded.

BE IT FINALLY RESOLVED that the Board agrees to set aside funding as its 10% match for the abovementioned VATI grant to be utilized if awarded.

Unanimously adopted.

A COPY TESTE:

  
Melissa A. Munsey  
Deputy Clerk to the Board

# United States Senate

WASHINGTON, DC 20510-4606

December 12, 2023

The Honorable Bryan Horn  
Director  
Virginia Department of Housing and Community Development  
600 East Main Street, Suite 300  
Richmond, VA 23219-2430

Dear Director Horn,

I write today in support of Alleghany County's grant proposal to the Virginia Department of Housing and Community Development's (DHCD) Virginia Telecommunications Initiative (VATI) to assist with providing broadband service to 370 households in the community.

Broadband is a necessity in our world today. For too many Americans, particularly in rural communities, lack of access to affordable, high-speed internet is the barrier to being able to connect with health care providers online, participate in distance learning, or work from home. If funded, I understand that Alleghany County will partner with the Craig-Botetourt Electric Cooperative to install permanent broadband infrastructure that will offer internet service to 370 households in the Crows and Hematite areas that are currently unserved within the county. The improvements that this project entails would provide a much needed, reliable method of communication in an area that lacks cell phone service and often experiences inoperable landlines. If awarded, these funds will provide the citizens of Alleghany County access to broadband services equal to citizens in larger cities and more populated areas.

I ask that you give this proposal every appropriate consideration. To the extent possible, please continue to update my office on the status of this grant by emailing [GrantSupport\\_Warner@warner.senate.gov](mailto:GrantSupport_Warner@warner.senate.gov).

Thank you for your service on behalf of my constituents.

Sincerely,



MARK R. WARNER  
United States Senator

MRW/aw

180 WEST MAIN STREET  
ABINGDON, VA 24210  
PHONE: (276) 628-8158

101 WEST MAIN STREET  
SUITE 7771  
NORFOLK, VA 23510  
PHONE: (757) 441-3079

919 EAST MAIN STREET  
SUITE 630  
RICHMOND, VA 23219  
PHONE: (804) 775-2314

120 LUCK AVENUE, SW  
SUITE 108  
ROANOKE, VA 24011  
PHONE: (540) 857-2676

8150 LEESBURG PIKE  
SUITE 700  
VIENNA, VA 22182  
PHONE: (703) 442-0670



COMMONWEALTH OF VIRGINIA

**HOUSE OF DELEGATES**  
RICHMOND

**TERRY L. AUSTIN**  
POST OFFICE BOX 400  
BUCHANAN, VIRGINIA 24066  
NINETEENTH DISTRICT

COMMITTEE ASSIGNMENTS:  
TRANSPORTATION (Chair)  
APPROPRIATIONS (Vice Chair)  
RULES

December 13, 2023

Dear Dr. Holmes:

I am providing this VATI Application Letter of Support for Alleghany County in support of its project application. Alleghany County is working with Craig-Botetourt Electric Cooperative to devise a plan for installing permanent broadband infrastructure that would offer a stable and consistent means of communication in a rural area in which it is lacking.

Alleghany County has made great strides providing broadband. In November 2021, Lumos Networks completed a critical project that provides 100% gigabit fiber internet speed to those in the company's service area in the Alleghany Highlands. However, the area in the western part of Alleghany County, known as Crows & Hematite epitomizes "the digital divide." This area of the county is covered by Frontier Communications of West Virginia, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. It has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations. It is my understanding that Frontier Communications of West Virginia is not consistent with service and maintenance, operates frequently inoperable landlines, and that attempts to work with the company on these issues have been unsuccessful. County residents are often left without means of communication for business, education, and most importantly emergency services.

Significant economic development projects are occurring in Alleghany County that further warrant the need for universal broadband coverage including recent announcements that will create more than 200 high-paying jobs. The county is also working on developing an industrial pad ready site encompassing 104 acres. The opportunity for economic expansion is being seized upon, creating an even greater need for countywide broadband deployment that can provide stable and consistent communication for business, workers, and residents.

For these reasons I ask that you strongly consider Alleghany County's VATI application.

Respectfully,

A handwritten signature in blue ink, appearing to read "Terry L. Austin".

Delegate Terry L. Austin  
19<sup>th</sup> House District



## Kevin W. Hall

Sheriff

Alleghany County/City of Covington

540-965-1770 ext 101

[kevin.hall@co.alleghany.va.us](mailto:kevin.hall@co.alleghany.va.us)



Dr. Tamarah Holmes, PhD.  
Department of Housing and Community Development  
600 East Main Street, Ste. 300  
Richmond, VA 23219

Dear Dr. Tamarah Holmes, PhD.,

I am pleased to be writing a letter of support for the County of Alleghany's proposal for grant funding through the Virginia Telecommunication Initiative, supporting broadband expansion into the western portion of Alleghany County.

This part of our county lacks cellular service and has very unreliable phone and internet access through satellite. From a law enforcement view point, this lack of reliable communications is extremely dangerous as it leaves the community without the ability to call for emergency services when needed. Due to rising costs, many households are cancelling hardwired landlines, making VOIP phone service more vital than ever before.

The need to connect with local law enforcement, emergency services and government are detrimental in the community we serve. Social networks and websites give rural citizens access to important updates from these agencies. Dangerous situations, amber alerts and emergency notifications can be realized and communicated in real time through the use of a broadband network.

I urge you to consider funding in order to enact broadband accessibility to our county. If you have any questions about the issues raised in this letter, please contact me at [kevin.hall@co.alleghany.va.us](mailto:kevin.hall@co.alleghany.va.us).

Sincerely,

*Kevin W. Hall*

Kevin W. Hall

Department of Housing and Community Development  
600 E. Main St. #300  
Richmond, VA 23219

To Whom It May Concern:

It is my privilege to write to you in support of the DHCD Virginia Telecommunication Initiative (VATI) to provide Internet access and cellular service to the Crows-Hematite Area of Alleghany County. We adore our community's mountains and our location in the United States National Radio Quiet Zone, and we understand this presents some challenges for connectivity. The contributions our residents can make as informed citizens, engaged students, and remote workers when presented with enhanced technological capacity are unlimited, however, and we are eager to receive your support to unleash this potential.

As superintendent of the Alleghany Highlands Public Schools (AHPS), I can attest that our students and their families need Internet access. While it is certainly true that this access can be used for fully-remote learning, it is also imperative for more routine needs, including but not limited to:

- Receiving school updates, including emergency notifications,
- Completing academic practice tasks (homework, preparation for upcoming lessons through "flipped" learning strategies that require access to Internet), and
- Enhanced academic engagement for full families.

We know as educational leaders that we can provide families digital means of maintaining involvement with their children's education that undoubtedly promotes overall success and "academic press" - the overall sense that learning is valued by families.

Alleghany Highlands Public Schools (AHPS) is committed to shrinking learning gaps for disadvantaged populations, and we realize that our students in the Crows-Hematite Area are disadvantaged by lack of reliable Internet access. We are committed to ensuring the progress of every student and their preparation for their participation in Virginia's robust economy, and community Internet access is part of that preparation. We stand ready to continue to provide enhancements to the education of our students and to our community's overall workforce development program through digital resources such as library access, rich project-based learning exercises, and work-based learning opportunities that require the Internet.

Your investment helps reap the benefits of our community's existing investment, as our school division provides hardware for student use at home as appropriate for individual learning needs. We sincerely thank you for enhancing our commitment to young people and their families by your support of our DHCD VATI application. If I or my team can provide further assistance, do not hesitate to contact us.

Respectfully,



Kimberly K. Halterman  
Superintendent  
Alleghany Highlands Public Schools



# Allegheny County Office of Public Safety

9212 Winterberry Avenue, Covington, VA 24426

---

**To:** Tamarah Holmes, PhD.

**From:** Jonathan Fitch, Director

**Date:** 12/04/2023

**RE:** DHCD Virginia Telecommunication Initiative (VATI). Crows & Hematite Project

---

Dear Tamarah:

I am writing to you to express our support for the telecommunications project for the Crows and Hematite area. This area has long been under-served when it comes to telecommunication infrastructure. Although the area has a low-density of population, the residents in the area are very isolated from each other due to the mountainous and vast woodland topography of the area. This also provides a challenge for us in emergency services. Persons needing emergency services have to find a landline phone to call for help due to the lack of cellular coverage. Often landline services are unreliable and result in dropped calls, especially in inclement weather.

The Crows and Hematite areas rank very high for wildland fire hazards. The area has a long history of large wildland fires. Due to the steep and vast topography, these fires often go unnoticed until they become sizable. This also challenges emergency crews needing to evacuate residents from the area. The county's reverse 911 and public warning systems are not accessible to the residents in the area due to poor telecommunications.

This project surpasses the need for the internet; it is a serious public safety concern. I hope you will share the same concern for this initiative.

Sincerely,

*Jonathan Fitch, Director*

*Allegheny County Office of Public Safety*

*Cell: 540-666-8743*

Tamarah Holmes, Ph.D.  
Director 10  
Office of Broadband  
Department of Housing and Community Development  
600 East Main St., Ste. 300  
Richmond, VA 23219

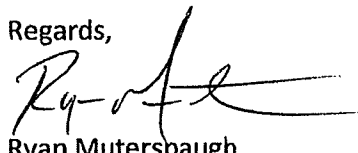
Dr. Holmes:

The purpose of this letter is to express my support for the Alleghany County application to DHCD for the VA Telecommunication Initiative to provide Broadband accessibility to the Crows and Hematite area. The need for effective and reliable internet and telephone communications in this area of the County is long overdue. The citizens in that area have been plagued with extremely unreliable service and very poor maintenance from Frontier Communications for many years.

I was the Director of Public Safety for Alleghany County for over 19 years until March 2022. There were many times during my tenure there that citizens (customers of Frontier) could not make or receive calls from their landline phone, including 911. There is also very little to no cell phone service in that area. This leaves many citizens with no means to contact help in the event of an emergency. There were a few instances where citizens could not receive landline calls but could make outbound calls to cellular numbers only. In order to provide them with a means for emergency communication and to get the necessary assistance, I gave many of the citizens in that area my cell number and advised them to call me anytime, day or night, so I could three-way call into the 911 Communications Center to get them help. This is unacceptable as it causes unnecessary delays in emergency response. These issues and concerns were communicated to Frontier many times by County officials and their customers, but they continued to provide poor service and let outages go on for days, or even weeks, without any resolution and with very little empathy.

I could provide many more examples of the ineffectiveness and indifference of Frontier Communications for the citizens in the Crows and Hematite area. It is time that these citizens realize a better level of service than what they have been accustomed to for many years. I applaud Alleghany County's willingness to undertake this endeavor and strongly encourage DHCD to support and approve this project. Thank you for your time.

Regards,



Ryan Muterspaugh  
Emergency Services Coordinator/Planner  
Roanoke City and Alleghany Health Districts  
Virginia Department of Health



**Statement of Support  
DHCD Virginia Telecommunication Initiative (VATI)  
For Alleghany County**

The Alleghany Highlands Chamber of Commerce & Tourism works to enhance and promote tourism, community development and business opportunities for our area and submits this statement of support for Alleghany County's application for the DHCD Virginia Telecommunications Initiative (VATI).

In November 2021, Lumos Networks completed a critical project that provides 100% gigabit fiber internet speed to those in the company's service area in the Alleghany Highlands. That initiative provided much needed access to the majority of the area but the area in the Western part of Alleghany County, known as Crows & Hematite epitomizes "the digital divide."

This area of the county is not covered by the Lumos service area, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. This area of the county has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations.

Frontier Communications, which has served the area with landlines only, is not consistent with service and maintenance. The landlines are often inoperable. There have been attempts to work with Frontier on these issues, but to no avail. Frontier only has a 10-foot easement on either side of their lines, in mostly-wooded areas. This restriction makes tree maintenance nearly impossible, with fallen trees often impacting service;

County residents are often left without means of communication for business, pleasure, education, and most importantly emergency services;

- Residents are often **without** the ability to call for Emergency Services, when needed;
- Residents lack access to internet services, making today's connected world out of their reach;
- Students who need internet access have to devise alternate methods in order to complete assignments and do proper research, outside of their homes;

Alleghany County is working with Craig-Botetourt Electric Cooperative to devise a plan for installing permanent broadband infrastructure that would offer a stable and consistent means for communication.

This project would be a tremendous benefit to the residents in that section of the county. It would have a positive impact on the quality of life in the area; allow students access to online study resources and enhance business opportunities in that area. We appreciate your consideration of this application.

Sincerely,

A handwritten signature in black ink that reads "Teresa Hammond". The signature is written in a cursive style with a large, prominent "T" and "H".

Teresa Hammond  
Executive Director



Tamarah Holmes, PhD.  
Director 10  
Office of Broadband  
Department of Housing and Community Development  
600 East Main Street. Ste. 300  
Richmond, VA 23219

Dear Tamarah:

This letter is in support of Alleghany County's work with Craig-Botetourt Electric Cooperative to devise a plan for installing permanent broadband infrastructure that would offer a stable and consistent means for communication. As one financial supporter of previous collaborative efforts to strengthen broadband deployment in the Alleghany Highlands, I can both recognize that much has happened, primarily through the efforts of Lumos, to create fiber-based connectivity in a large portion of Alleghany County, and there are also still gaps – particularly in the Crows and Hematite communities.

Though much has happened in the region over the past ten years that is very positive, there are areas that lack services, and more attention needs to be paid to the costs of services. I served with other community leaders on the broadband task force for several years. Among other things, we identified services in the western/southwestern areas of Alleghany County and served primarily by Frontier as inadequate. Even as that region has some connectivity through primary arteries, it falls woefully short for last mile (or last 10-mile) connections for families who live in rough terrain and where the population is widely dispersed. We found stories of people who were not able to do their jobs or school work due to the lack of affordable and high-speed connectivity.

As an added element, cellular service is very challenging in this region. Some of that is a result of the topography and limited transmission and some is the limited availability related to the Green Bank Observatory's Quiet Zone. Many turn to internet-based calling or boosters for cell phones. Whereas some turn to cellular data plans in other areas, these do not work well here, and the absence of internet at home compounds the gaps with communications.

I and my family have been grateful for expanded fiber services in our neighborhood as my husband works remotely and uses large digital files. My children relied on the connectivity during the pandemic for both high school and remote college classes. I used to think of the fiber availability as a selling point for our community. Though availability is an asset, I have revised my thinking to recognize that affordable, fiber-based broadband is essential. As we saw during the pandemic, students needed access from home, and many parents needs access to be able to

Mary Fant Donnan

Page 2

keep working. Though we look forward to a time some of those dynamics shift, additional work is needed.

I do hope you will be able to support Alleghany County's request. Please contact me if you have any questions.

Warm regards,



Mary Fant Donnan  
Executive Director  
The Alleghany Foundation



Roanoke Valley-Alleghany

**REGIONAL**  
**commission**

[RVARC.ORG](http://RVARC.ORG)

313 Luck Avenue, SW | Roanoke, Virginia 24016 | P: 540.343.4417 | F: 540.343.4416 | [rvarc@rvarc.org](mailto:rvarc@rvarc.org)

December 10, 2023

Dr. Tamarah Holmes  
Director, Office of Broadband  
Virginia Department of Housing & Community Development  
VATI Program  
600 East Main Street, Suite 300  
Richmond, Virginia 23219

SUBJ: Letter of Support for 2024 VATI Grant for Alleghany County – Craig-Botetourt Electric Cooperative

Dear Dr. Holmes:

We are writing in support of Alleghany County's 2024 VATI application with Craig-Botetourt Electric Cooperative to install broadband infrastructure in the Crows and Hematite areas of Alleghany County. This area of the county is not covered by the Lumos service area, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. This area of the county has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations. Frontier Communications of West Virginia is not consistent with service and maintenance. The landlines are often inoperable. There have been attempts to work with Frontier on these issues, with no avail. County residents are often left without means of communication for business, pleasure, education, and most-importantly emergency services.

Significant economic development projects are occurring in Allegheny County that warrant the need for universal broadband coverage. Green Thumb Industries, LLC is currently conducting a manufacturing relocation into an existing industrial building in Allegheny County. They are currently operating manufacturing facilities in Low Moor and Abingdon. There are currently 40 employees. Within 5 years, GTI will create over 200 additional above median income jobs and will be manufacturing exclusively in Alleghany County. This is only one of the economic opportunities available to the County as it continues to develop a 104-acre site in partnership with the City of Covington and the Virginia Economic Development Partnership, which has received \$3.2 million for site development. Complete and comprehensive deployment of broadband throughout the County will be critical for the success of this and future economic development projects.

Sincerely,

A handwritten signature in black ink that reads "Jeremy Holmes".

Jeremy Holmes  
Executive Director, RVARC





111 Franklin Plaza, Suite 333  
Roanoke, VA 24011

540-343-1550

www.roanoke.org

December 9, 2023

Reid Walters, County Administrator  
Alleghany County Governmental Complex  
9212 Winterberry Avenue  
Covington, VA 24426

Dear Reid,

I am writing to express the support of Roanoke Regional Partnership for your Virginia Telecommunications Initiative grant to the Virginia Department of Housing and Community Development.

Alleghany County has been proactive, investing to address challenges to its future economic vitality. The community is actively developing real estate, working collaboratively with developers to address housing concerns, and has successfully recruited a new manufacturer, Green Thumb Industries, which plans to add over 200 jobs paying over the area median wage. Universal coverage will be key to the County's future growth and success.

In November 2021, Lumos Networks completed a critical project that provides 100% gigabit fiber internet speed to those in the company's service area in the Alleghany Highlands. The area in the Western part of Alleghany County, known as Crows & Hematite epitomizes "the digital divide." This area of the county is not covered by the Lumos service area, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. This area of the county has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations. Frontier Communications of West Virginia is not consistent with service and maintenance. The landlines are often inoperable. There have been attempts to work with Frontier on these issues, with no avail. County residents are often left without means of communication for business, pleasure, education, and most importantly emergency services. As a result:

- Residents are often **without** the ability to call for Emergency Services, when needed;
- Residents lack access to internet services, making today's connected world out of their reach;
- Students who need internet access have to devise alternate methods in order to complete assignments and do proper research, outside of their homes.

Alleghany County is working with Craig-Botetourt Electric Cooperative to devise a plan for installing permanent broadband infrastructure that would offer a stable and consistent means for communication. With the current economic development activities occurring in the area, stable and consistent communication is a need. This is a critical investment to ensure universal coverage in Alleghany County, Virginia.

Sincerely,

A handwritten signature in blue ink that reads "John M. Hull".

John M. Hull  
Executive Director



Tamarah Holmes, PhD.  
Director 10  
Office of Broadband  
Department of Housing and Community Development  
600 East Main Street. Ste. 300  
Richmond, VA 23219

Ray N. Lipes  
220 N. Smith Bridge Rd.  
Hot Springs, VA 24445

Ms Holmes,

I recently retired from Lumos Networks where I was the Senior Manager who oversaw the critical company project that was completed in November 2021 which provides 100% gigabit speed Fiber Broadband to those in the company's service area in the Alleghany Highlands.

The area in the Western part of Alleghany County, known as Crows & Hematite epitomizes "the digital divide." This area of the county is not covered by the Lumos Networks service area, lacks cellular service, and is in dire need of a reliable method of communication and internet accessibility at properties, businesses, and residences. The expansion of Fiber Broadband infrastructure into this remaining area of Alleghany County is critical for the following reasons:

- This area of the county has low-density population, challenging topography, and is affected by the Green Bank Observatory's "national radio quiet zone" federal regulations.
- Frontier Communications, which has served the area with landlines only, is not consistent with service and maintenance. The landlines are often inoperable. There have been attempts to work with Frontier on these issues, with no avail.
- Frontier only has a 10-foot easement on either side of their lines, in mostly-wooded areas. This restriction makes tree maintenance nearly impossible, with fallen trees often impacting service.
- County residents are often left without means of communication for business, pleasure, education, and most-importantly emergency services.
  - Residents are often **without** the ability to call for Emergency Services, when needed.
  - Residents lack access to internet services, making today's connected world out of their reach.
  - Students who need internet access have to devise alternate methods in order to complete assignments and do proper research, outside of their home.

Alleghany County is working with Craig-Botetourt Electric Cooperative and Lumos Networks to devise a plan for installing permanent Fiber Broadband infrastructure that would offer a stable and consistent means for communication.

As a Board of Directors member of the Alleghany Highlands Economic Development Corporation, I am submitting this letter of support for a VITA Grant to enable Fiber Broadband accessibility to the Crows & Hematite area of Alleghany County.

Sincerely

A handwritten signature in cursive script that reads "Ray Lipps". The signature is written in black ink and is positioned below the word "Sincerely".

Ray N. Lipps

Susan E. Knick  
6915 Big Ridge Road  
Covington VA 24426

Tamarah Holmes, PhD.  
Director 10  
Office of Broadband  
Department of Housing and Community Development  
600 East Main Street. Ste. 300.  
Richmond, VA 23219

RE: Letter of Support for Broadband accessibility to the Crows & Hematite area of Alleghany County, Virginia

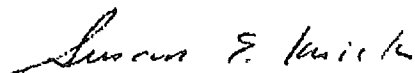
I live in the extreme western portion of Alleghany County, VA. This area is what my husband and I often jokingly refer to as the 'frontier' due to limited communications availability. While we reside on a state maintained roadway we have only 1 full time neighbor who lives four miles from us and is separated by significantly challenging terrain which is often encumbered during winter months by snow/ice, have no cellular service at all, and are forced to rely upon antiquated landline telephone service provided by Frontier Communications for phone service.

Landline is our only method by which to summon emergency assistance from our home and by which my husband's heart monitor communicates with his cardiologist. I find the need to rely on antiquated landline technology particularly stressful as it is not uncommon for our phone service to be inoperable for days, sometimes weeks, at a time. Whenever there is a heavy rain we know that the phone line will be full of static, often making it impossible to hear, until the lines "dry out" as water seeps into junction boxes. Winds often leave us with no phone service for days at a time until Frontier sends a technician out to scour the mountain side for the cause of the outage; usually a tree down on a line. During clear weather it is not uncommon to have wild animal damage to the phone lines as many lines lay on the ground or just barely above ground level.

We cannot access streaming or zoom services from home meaning during the COVID pandemic when the world switched to Internet-based meetings we had to drive miles to find a location where we could access Internet service with capability to allow us to communicate with doctors, colleagues and other necessary services. If the weather was bad we had to forgo these meetings altogether.

It is clear that the world HAS moved to Internet based communications and left the world of land-line telephones behind. Our need is more than socially oriented; it is a life-saving/emergency need. Medical equipment with communications to doctors (CPAP machines, heart monitors, etc.) is no longer outfitted for landline interaction; everything is cellular and Internet-based. We cannot video chat with our doctors. Many, many times, we cannot summon emergency assistance if it were needed.

I wholeheartedly support Alleghany County's application to DHCD VA Telecommunication Initiative (VATI) to enable Broadband accessibility to the Crows & Hematite area of the County.

  
Susan E. Knick

## FW: Support of VATI Grant Submission

From: rwalters@co.alleghany.va.us <rwalters@co.alleghany.va.us>

Sent: Wed, Oct 18, 2023 at 12:38 pm

To: Broad Band, jfich@co.alleghany.va.us

---

-----Original Message-----

From: "Nay Ba" <spotlove2@aol.com>

Sent: Tuesday, October 17, 2023 8:06pm

To: "rwalters@co.alleghany.va.us" <rwalters@co.alleghany.va.us>

Subject: Support of VATI Grant Submission

10/17/2023

Naomie Quantz

Crows, VA

To whom it may concern,

As you know in 2023 items in the past, we considered luxuries are now often modern-day requirements for society to grow and function. Items such as phone and internet services are important for communication, education, work, emergencies, and even health. Even if one does not solely work from home employers are expecting that workers have means of communication and ways to work on projects further at home if needed. When it comes to education whether you are homeschooled, private, or attend public school the internet is an absolute must have. Whether you are doing homework, attending college or just general classes from home, or classes at home due to inclement weather. What do you use to contact an emergency service? You use a cell phone or a landline phone. Either of which you said is a means of phone service. Many people rely on telehealth programs which involve either cell service or internet services to communicate with doctors to continue plans of treatment, a simple checkup, or more. The western portion of Alleghany County has for several years now experienced lack of services and help in the departments of emergency service communication, cell phone/landline, and internet services. So, you may be wondering how does this affect Alleghany County and why is it important?

When looking for home's homebuyers look often at location (which Alleghany County is beautiful and checks that box) and ability to use cell or internet services. According to the U.S. Census Bureau, the number of people working from home has tripled. Today's homebuyers are less likely to purchase a home if it does not offer internet or cell services. This means homes in this location will have a harder time selling or will sell at a less competitive price which isn't necessarily fair to the seller. A real-estate sale sometimes determines whether a family moves in, and growth occurs, a business is created, or a weekend home is made. These transactions hold a lot of weight in a small community like Alleghany County.

School in today's world is different than in years past. Students now are doing more online based classes. During the pandemic those in our area had to drive to parking lots, spots beside the road, etc. just to be able to continue to learn and grow. This issue doesn't only effect Alleghany County it will affect Virginia and the United States. These children will attend colleges, trade schools, or go straight into the work force. It is vital they have the foundational tools to build success upon. Like stated above in 2023 that means having proper internet that is reliable or proper cell phone service to achieve schooling.

Some homes in our area have Frontier Communications (the closest office to us is in Lewisburg WV). When you go on their site, they do not show servicing VA but if you

type in a VA address it will show for example maybe phone or internet services available to that location. First, I will address the phone end of their services. Not all homes in the western portion of the county are eligible to receive landline phone services from Frontier. For the western portion of the county that is the only provider unless you do a satellite phone form. Several new homebuyers have seen where Frontier phone services have served their home previously and yet Frontier has claimed they do not service that area. The homebuyers have had to argue to finally get service. Those that do have their landline phone services have issues. Our personal home has the original line that was put in during 1960. A frontier tech promised that a new line would be ran and we have never received it. The line is often hard to hear on, drops the calls, or you can sometimes hear other people on the line making calls. Which brings me to my next point making a call for emergencies.

A phone is vital for making a call for emergencies whether it be through a cell phone or landline. Much of the county does not receive cell service or the opportunity to call 9-1-1 without cell services. The landline like stated above isn't reliable in call quality or the fact that outages occur often. With emergency communications we also face another issue responders. When responders come out to a call, they have a hard time communicating back and forth. This poses an issue if they need back up or another issue occurs. Also, on the note of emergency issues on this end of the county if you call 9-1-1 you receive White Sulphur Springs West Virginia. These issues that I have listed above are something that should not be taken lightly. As a mother of three small children this is very important issue and concerning to me.

Next is Frontier Communications internet services. Once again like the phone services some can receive internet service and others cannot. My home personally cannot receive internet even though it is advertised that we can. Others that do receive services have spotty slower services.

So, what about those who do not receive services from Frontier? For those of us who can we receive satellite internet services. We have personally been through three providers of satellite internet services. The provider we have currently is the best we have found yet but is pricey and not all households are able to afford this service. Satellites aren't a solve all even if everyone were able to afford or receive them. Satellite internet relies upon satellites in the sky to send signals to. There is no way to speed up signals or to battle bad weather which affects communication between satellites. In November 2021 Lumos Networks announced their completion of fiber broadband in the Alleghany Highlands, the western portion did not receive this. Many of us would love to be able to receive their coverage and it is disappointing we did not receive these services.

I know our county is small and rural but that doesn't mean we shouldn't receive modern day necessities. It is very exciting to hear of the county's submission for the VATI Grant. I am in full support of this move and cannot personally think of a more deserving area to receive this!

Naomie Quantz

From: Cloud 'O' Feathers [mailto:jimhogendobler@gmail.com]  
Sent: Monday, August 22, 2022 10:46 AM  
To: sadcock@co.alleghany.va.us  
Cc: Mary Fant Donnan <maryd@alleghanyfoundation.org>  
Subject: Letters of Support - Crows-Hematite ISP

Suzanne,

I received a copy of your Email from a neighbor here in Crows, Virginia. This is very exciting for our community having lived through the connectivity issues here both as an individual and professional. Finally solving this problem for myself after 24 months of work I cannot emphasize the importance and real need we have here of affordable quality Internet. We also have a fairly diverse gap with Emergency services, Telemedicine, education, and many other needs that good Internet connectivity could help solve.

Attached I have provided a presentation that I have sent to the board of supervisors along with the Alleghany Foundation a few months back. Knowing the timing of this with Starlink losing the Grant for rural connectivity in our county I would like to provide my support for this.

Look forward to hearing of any progress or if anything else is needed from me please let me know, thanks.

Cheers,

Jimmy Hogendobler  
M (703) 209-6113

From: kevin.mangum@frontier.com [mailto:kevin.mangum@frontier.com]  
Sent: Thursday, August 18, 2022 8:21 PM  
To: sadcock@co.alleghany.va.us  
Subject: Letter of Support (Crows-Hematite)

TO: Suzanne Adcock  
From: Kevin Mangum

Subject: Letter of Support (Crows-Hematite) Aug 18, 2022

I live on Cove Creek Rd in Alleghany County and currently have internet and phone via Frontier. My current phone and internet are provided over a Digital Subscriber Line (DSL). I would welcome a change/upgrade to fiber via Lumos Networks. My current Frontier connection (on a good day) provides 10 Mbps downloads and less than 1 Mbps uploads. Over the last five years, I have had very poor service from Frontier. I have had to contact the Federal Communications Commission (FCC) several times to get issues (no internet or phone) resolved. During this time I worked remotely for NASA and on many occasions had to relocate to a friends house (which internet was provided by Lumos) to complete my duties because the Frontier internet connection was down.

There was several times that I contacted the Alleghany County Public Safety office because I was unable to call specific numbers such as 911, doctors office, police and others. During this, unknown at the time, we could not receive calls either. These types of issues are concerning, because you do not know you have lost service until you need it. These situations took weeks to solve. I want to also highlight that there is no Cell signal at my residence so my land line is very important! During these situations it was not limited to my connection. I contacted several neighbors who contacted other neighbors and we all had the same issue.

Communication with Frontier is also poor. When there is an issue and a service call (repairman) is required, responses has been between 1-2 weeks. Luckily none of the issues ever required a repairman to come to my house to correct the issues. The first hurdle for getting help with an issue (internet or phone) is convincing the Helpdesk that YES frontier does provide me with internet and phone even thou I live in Virginia. Having a provider in a different state does provide (which they don't support) its own set of problems.

If I was to have FIBER connection, I would be able to do online banking, work remotely more efficiently, have confidence in contacting help if needed, and of course utilize the higher bandwidth for personal reasons (communication with family and friends via Facebook, FaceTime, and watch movies and news).

Kevin Mangum  
540 559-4208



From: Scott Peters <scottp944@icloud.com>  
Date: August 21, 2022 at 5:34:06 PM EDT  
To: sadcock@co.alleghany.va.us  
Subject: Letter of Support-Crows/Alleghany Broadband

This email is to support the initiative to improve the internet service in the Crows/Hematite area of Alleghany County. Our current service is provided by Frontier and sometimes can be very limited. As someone who has the ability to work remote, the upload and download speed has limitations.

Also, we have experienced on occasion that our landline home phone has went out and no ability to call 911 for emergency services. With no cell service, we rely on WiFi Calling which is accomplished via our internet service provider. At times, the WiFi calling is inadequate due to the internet provider.

I have personally had Frontier personnel on site for repairs and was informed of the following issues:

- (1) If someone with Frontier internet complains too often about their internet service, Frontier will drop that customer and claim that internet is no longer available at their residence.
- (2) I have also been informed that Frontier does not have adequate spare parts to make repairs to the internet service equipment.

Feel free to reach out if any further comments are requested.

Thank You,

Scott Peters  
2212 Cove Creek Road  
Covington, VA 24426  
540.559.9791

## FW: Help for western end of Alleghany

From: rwalters@co.alleghany.va.us <rwalters@co.alleghany.va.us>

Sent: Wed, Oct 18, 2023 at 12:37 pm

To: Broad Band, jfich@co.alleghany.va.us

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-----Original Message-----

From: "tudyisme018@aol.com" <tudyisme018@aol.com>

Sent: Tuesday, October 17, 2023 9:20pm

To: "rwalters@co.alleghany.va.us" <rwalters@co.alleghany.va.us>

Subject: Help for western end of Alleghany

Date October 18 2023

Your name Brent and Cynthia Jones

Address 4215 Dunlap Creek Road

To whom it may concern,

RE: Letter of Support for Broadband accessibility to the western portion of Alleghany County, Virginia

I live in Alleghany Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services and internet are major issues that affect the community as a whole. We need these resources whether it be for a neighbors business, a child attending school, a tele-health call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

BRENT&CYNTHIA JONES

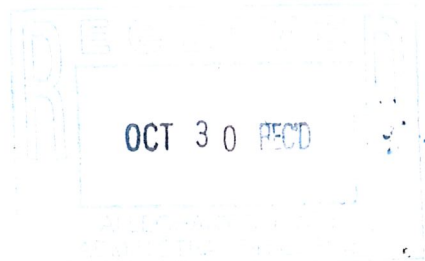
[Sent from AOL on Android](#)

Date 10/25/23

Your Name Robert + Ana Bean

Address or area of Alleghany County you live in

4714 Dunlap Creek Rd



To whom it may concern,

I live in Covington Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Mrs Robert Bean  
4714 Dunlap Creek Rd  
Covington Va 24426

Date 10-24-23

Your Name Ralph Meadows

Address or area of Alleghany County you live in

5118 Big Ridge Rd.  
Covington VA

To whom it may concern,

I live in Alleghany Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Date 11-28-23

Your Name Cindy Howard

Address or area of Alleghany County you live in  
~~643 S.~~ 3321 Kanawha Tr.  
Covington, VA 24426

To whom it may concern,

I live in Covington Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Cindy Howard

Date 11.28.23

Your Name Jerry M. Bowers

Address or area of Alleghany County you live in <sup>6993</sup> ~~1001~~ Big Ridge Rd.

Covington, VA 24426

To whom it may concern,

I live in Covington Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Jerry M. Bowers

Date

11-25-23

Your Name

Linda Snyder

Address or area of Alleghany County you live in

4917 Dunlap Creek Rd  
Covington VA 24026

To whom it may concern,

I live in Hematis Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Linda Snyder

Date 11-25-23

Your Name BRIAN Scott GROVES

Address or area of Alleghany County you live in  
3534 KANAWHA TRAIL

To whom it may concern,

I live in CROWS Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)





Date 11-25-23

Your Name Carolyn & Andy Snyder

Address or area of Alleghany County you live in

4913 Dunlap Creek Rd.  
Covington VA 24626

To whom it may concern,

I live in West Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Carolyn & Andy Snyder

Date 11-21-23

Your Name Rebecca Maupin

Address or area of Alleghany County you live in

2050 Cove Creek Road, Cov., Va. 24426

To whom it may concern,

Alleghany

County

I live in County Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name)

Rebecca Maupin

As you know from my many phone calls, my phone and internet through Frontier is terrible. On the average, I would say each, if not both go out 2-3 a month, for days. When this happens, I am not able to call 911 or anyone.

Date NOV 21, 2023

Your Name ERSKINE GRAVES

Address or area of Alleghany County you live in  
4805 Dunlap Creek Rd, Cov, Va. 24426

To whom it may concern,

I live in Alleghany County Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

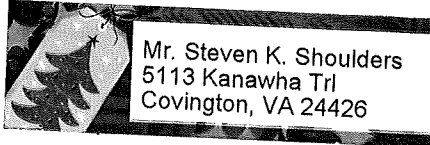
(Your name) F. E. Graves

I have NO internet as I live in the Hemitate AREA. Not offered / available. Frontier does not offer. ~~State~~

Date 10-21-23

Your Name Steven Shoulders

Address or area of Alleghany County you live in



To whom it may concern,

Town of

I live in Alleghany Virginia. This area is significantly lacking in modern day necessities. The lack of proper cell/landline services, and internet are major issues that affect the community and the state. We need these resources whether it be for a neighbor's business, a child attending school, a telehealth call, or emergency communications.

I support Alleghany County's application to the DHCD VA Telecommunication Initiative to allow Broadband accessibility to the western portion of Alleghany County.

(Your name) Steven Shoulders

# Form 477 Filing Summary

FRN:  
1002072916

Data as of:  
Jun 30, 2021

Operations:  
Non-ILEC

Submission Status:  
Original - Submitted

Last Updated:  
Sep 20, 2021 12:54 PM

## Filer Identification

Section	Field	Response
Filer Information	Company Name	Craig Botetourt Energy and Home Services, LLC
	Holding Company Name	Craig-Botetourt Electric Cooperative
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	833878
Data Contact Information	Data Contact Name	Timothy J Kaczmariski
	Data Contact Phone Number	(540) 864-5121
	Data Contact E-mail	Tim.Kaczmariski@cbec.coop
Emergency Operations Contact Information	Emergency Operations Name	Jeffrey M Ahearn
	Emergency Operations Phone Number	(540) 864-5121
	Emergency Operations E-mail	jeff.ahearn@cbec.coop
Certifying Official Contact Information	Certifying Official Name	Timothy J Kaczmariski
	Certifying Official Phone Number	(540) 864-5121
	Certifying Official E-mail	Tim.Kaczmariski@cbec.coop

## Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	BOA_FBD_9-2-21.csv	Sep 3, 2021 09:37 AM	145

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Subscription	BOA_Fixed Broadband Subscription_9-3-21.csv	Sep 3, 2021 03:50 PM	4
Fixed Voice Subscription	BOA_Fixed Voice Subscription_9-20-21.csv	Sep 20, 2021 12:41 PM	4

## Fixed Broadband Deployment

### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Bee Online Advantage	Optical Carrier/Fiber to the End User	145
<b>Total</b>			<b>145</b>

## Fixed Broadband Subscription

### Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	4	288	0	288
<b>Total</b>		<b>4</b>	<b>288</b>	<b>0</b>	<b>288</b>

### Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
300.000	300.000	288	0	288
<b>Total</b>		<b>288</b>	<b>0</b>	<b>288</b>

### Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	300.000	300.000	288	0	288
<b>Total</b>			<b>288</b>	<b>0</b>	<b>288</b>

## VG E Lines and VoIP Subscriptions by State and End User Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	0	0	25	25
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>25</b>

## Fixed Voice Subscription (iVoIP)

### Over-the-Top VoIP Subscriptions by State and End User Type

State	Total	Consumer	Business/Govt.
Virginia	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

### All Other VoIP Subscriptions by State, End User Type, Bundle and Last-Mile Medium

State	Total	by End User Type		by Bundle		by Last-Mile Medium			
		Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	25	25	0	25	0	0	25	0	0
<b>Total</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>

### Reminder:

Use 2010 Census geographies for data as of June 30, 2021 and before.  
 Use 2020 Census geographies for data as of December 31, 2021 and after.

For help or assistance, please contact (877) 480-3201 or (717) 338-2834 (TTY) or you may submit an [online e-support ticket](#).

Federal Communications Commission  
 45 L St NE, Washington, DC 20002

[Phone: 1-888-225-5322](tel:1-888-225-5322)

[TTY: 1-888-835-5322](tel:1-888-835-5322)

[Videophone: 1-844-432-2275](tel:1-844-432-2275)

[Fax: 1-866-418-0232](tel:1-866-418-0232)

# Form 477 Filing Summary

**FRN:**

002072916

**Data as of:**

Dec 31, 2021

**Operations:**

Non-ILEC

**Submission Status:**

Original - Submitted

**Last Updated:**

Feb 28, 2022 08:36 AM

## Filer Identification

Section	Field	Response
<b>Filer Information</b>	Company Name	Craig-Botetourt Energy and Home Services, LLC
	Holding Company Name	Craig-Botetourt Electric Cooperative
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	833878
<b>Data Contact Information</b>	Data Contact Name	Timothy J Kaczmariski
	Data Contact Phone Number	(540) 864-5121
	Data Contact E-mail	tim.kaczmariski@cbec.coop
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Jeffrey M Ahearn
	Emergency Operations Phone Number	(540) 864-5121
	Emergency Operations E-mail	jeff.ahearn@cbec.coop
<b>Certifying Official Contact Information</b>	Certifying Official Name	Timothy J Kaczmariski
	Certifying Official Phone Number	(540) 864-5121
	Certifying Official E-mail	tim.kaczmariski@cbec.coop

## Data Submitted



Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	BOA_Fixed Broadband Deployment_2-25-22_v2.csv	Feb 25, 2022 03:56 PM	65
Fixed Broadband Subscription	BOA_Fixed Broadband Subscription_2-25-22.csv	Feb 25, 2022 04:32 PM	7
Fixed Voice Subscription	BOA_Fixed Voice Subscription_2-25-22.csv	Feb 25, 2022 05:00 PM	4

## Fixed Broadband Deployment

### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Bee Online Advantage	Optical Carrier/Fiber to the End User	65
<b>Total</b>			<b>65</b>

## Fixed Broadband Subscription

### Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	7	316	0	316
<b>Total</b>		<b>7</b>	<b>316</b>	<b>0</b>	<b>316</b>

### Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
300.000	300.000	316	0	316
<b>Total</b>		<b>316</b>	<b>0</b>	<b>316</b>

### Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	300.000	300.000	316	0	316

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
<b>Total</b>			<b>316</b>	<b>0</b>	<b>316</b>

## Fixed Voice Subscription

### VGE Lines and VoIP Subscriptions by State and End User Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	0	0	28	28
<b>Total</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>28</b>

## Fixed Voice Subscription (iVoIP)

### Over-the-Top VoIP Subscriptions by State and End User Type

State	Total	Consumer	Business/Govt.
Virginia	28	28	0
<b>Total</b>	<b>28</b>	<b>28</b>	<b>0</b>

### All Other VoIP Subscriptions by State, End User Type, Bundle and Last-Mile Medium

State	Total	by End User Type		by Bundle		by Last-Mile Medium			
		Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

# Form 477 Filing Summary

**FRN:**  
0002072916

**Data as of:**  
Jun 30, 2022

**Operations:**  
Non-ILEC

**Submission Status:**  
Original - Submitted

**Last Updated:**  
Sep 30, 2022 02:16 PM

## Filer Identification

Section	Field	Response
<b>Filer Information</b>	Company Name	Craig-Botetourt Electric Cooperative
	Holding Company Name	Craig-Botetourt Electric Cooperative
	Filing Type	Non-ILEC
	SAC ID	N/A
	499 ID	833878
<b>Data Contact Information</b>	Data Contact Name	Tim Kaczmariski
	Data Contact Phone Number	(540) 864-5121
	Data Contact E-mail	tim.kaczmariski@cbec.coop
<b>Emergency Operations Contact Information</b>	Emergency Operations Name	Jeffrey M Ahearn
	Emergency Operations Phone Number	(540) 864-5121
	Emergency Operations E-mail	jeff.ahearn@cbec.coop
<b>Certifying Official Contact Information</b>	Certifying Official Name	Timothy J Kaczmariski
	Certifying Official Phone Number	(540) 864-5121
	Certifying Official E-mail	tim.kaczmariski@cbec.coop

## Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	BOA_Fixed Broadband Deployment_6-30-22.csv	Sep 30, 2022 02:06 PM	65
Fixed Broadband Subscription	BOA_Fixed Broadband Subscription_6-30-22.csv	Sep 30, 2022 02:09 PM	7
Fixed Voice Subscription	BOA_Fixed Voice Subscription_6-30-22.csv	Sep 30, 2022 02:11 PM	5

## Fixed Broadband Deployment

### Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Bee Online Advantage	Optical Carrier/Fiber to the End User	65
<b>Total</b>			<b>65</b>

## Fixed Broadband Subscription

### Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Optical Carrier/Fiber to the End User	7	395	0	395
<b>Total</b>		<b>7</b>	<b>395</b>	<b>0</b>	<b>395</b>

### Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
300.000	300.000	395	0	395
<b>Total</b>		<b>395</b>	<b>0</b>	<b>395</b>

### Fixed Broadband Subscriptions by Technology, Bandwidths and End User Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
Optical Carrier/Fiber to the End User	300.000	300.000	395	0	395

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
<b>Total</b>			395	0	395

## Fixed Voice Subscription

### VGE Lines and VoIP Subscriptions by State and End User Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	0	0	41	41
<b>Total</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>41</b>

## Fixed Voice Subscription (iVoIP)

### Over-the-Top VoIP Subscriptions by State and End User Type

State	Total	Consumer	Business/Govt.
Virginia	41	41	0
<b>Total</b>	<b>41</b>	<b>41</b>	<b>0</b>

### All Other VoIP Subscriptions by State, End User Type, Bundle and Last-Mile Medium

State	Total	by End User Type		by Bundle		by Last-Mile Medium			
		Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Reminder: Use 2010 Census geographies for data as of June 30, 2021 and before. Use 2020 Census geographies for data as of December 31, 2021 and after.

Submissions Dashboard / [Submission Overview](#)

The filing deadline for June 30, 2023 data is extended to September 15, 2023. Filers should use updated release 3.2 Fabric files to report their fixed availability data.

## Submission Overview

SUBMISSION CERTIFIED

FRN: 0002072916 | Service Provider | Craig Botetourt Energy and Home Services, LLC

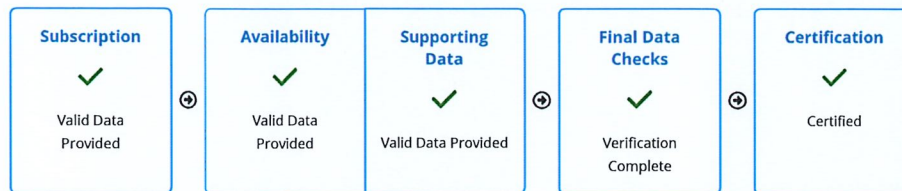
Data as of June 30, 2023

### Biannual Filing Window

DATA AS-OF DATE	WINDOW OPEN	WINDOW STATUS
Jun 30, 2023	Jul 3, 2023	OPEN
TODAY'S DATE	WINDOW CLOSE	FILING STATUS
Aug 23, 2023	Sep 15, 2023	Original - Certified

### Submission Steps

[Decertify Submission](#)



### Fixed Submission Data

Service	Subscription Data Files Currently Processing (0)		Availability Data Files Currently Processing (0)	
	Subscribers	Locations	Supporting Data	
Fixed Broadband	422	943	✓ 1 of 1	
Fiber to the Premises	422	943	✓ 1 of 1	
Fixed Voice	45			
Non-ILEC	45			



Rural Development

Electric Programs  
Rural Utilities Service

1400 Independence Ave SW  
Room 4133 – STOP 1560  
Washington, DC 20250

Voice: 202.720.9545

November 16, 2023

Mr. Jeffery M. Ahearn  
Chief Executive Officer  
Craig-Botetourt Electric Cooperative  
P.O. Box 265  
New Castle, Virginia 24127-0265

Subject: Virginia 02 Craig  
Environmental Review of 2024-2027 CWP

Dear Mr. Ahearn:

The USDA Rural Utilities Service (RUS) has reviewed the environmental documentation covering the facilities recommended in the cooperative's 2023-2025 Construction Work Plan (CWP). In accordance with 7 CFR Part 1970, Environmental Policies and Procedures, all projects proposed in the CWP appear to meet the criteria for Categorical Exclusions in accordance with 7 CFR §1970.53 [c][8]; [d][1],[2],[3],[4],[10]. Except for project codes 201-24, 202-20, 202-24, and 203-24, no additional environmental information needs to be submitted for review, provided there are no new extraordinary circumstances (see §1970.52) and the projects do not change from what has been described in the CWP and its supporting environmental documentation.

Project Codes 201-24, 202-20, 202-24, and 203-24, require the preparation of a site-specific Environmental Report (ER). The regulation 7 CFR part 1970, Subpart B, Exhibit C, "Guide for Applications for Preparing Environmental Reports for Categorical Exclusions under §1970.54" should be used as reference when preparing the ER. Construction should not begin until RUS has reviewed and approved the ER. Connected projects (substations, transmission lines, distribution exit feeders being constructed for the same purpose/need and which lack independent utility) must be discussed and included in the same ER.

Except for project codes 201-24, 202-20, 202-24, and 203-24, RUS has concluded its environmental review of all projects in the CWP as provided in 7 C.F.R. §1970.11(c). The cooperative is responsible for acquiring the necessary permits for construction and operation of the proposed projects and for implementing all environmental commitments made in the CWP and its environmental documentation. Additional state and federal

permits/reviews may be required for projects sited on publicly owned lands or that cross protected streams and wetlands. Additionally, the borrower agrees that should any threatened or endangered species, cultural resources or environmentally sensitive sites be discovered during construction, the borrower will cease construction and notify RUS and the appropriate agencies immediately.

Sincerely,

**RICHELLE RICHARDSON** Digitally signed by RICHELLE RICHARDSON  
Date: 2023.11.16 07:52:05 -05'00'

RICHELLE L. RICHARDSON  
General Field Representative  
Office of Operations  
USDA Rural Utilities Service – Electric Programs

cc: Kenneth Solano, Chief, Engineering Branch



Categorical Exclusion Form



## U.S. DEPARTMENT OF AGRICULTURE RURAL DEVELOPMENT ENVIRONMENTAL CHECKLIST FOR CATEGORICAL EXCLUSIONS

<b>1. APPLICANT NAME:</b> Craig-Botetourt Electric Cooperative (VA0002)				
<b>2. NAME OF PROPOSAL (provide brief description):</b> 2024-2027 Construction Work Plan				
<b>3. ADDRESS OR GENERAL LOCATION OF PROPOSAL:</b> Alleghany, Botetourt, Craig, Giles, Montgomery, and Roanoke counties in VA & Monroe County in WV				
<b>4. FEDERAL ACTION:</b>	Loan <input type="checkbox"/>	Grant <input type="checkbox"/>	Guarantee <input type="checkbox"/>	Construction Work Plan or Loan/System Design <input checked="" type="checkbox"/>
<b>5. APPLICABLE RD PROGRAM:</b> RUS Electric Program				
<b>6. THIS PROPOSAL QUALIFIES AS A CATEGORICAL EXCLUSION IN ACCORDANCE WITH § 1970.53 --- OR § 1970.54 ---</b> See attached worksheet				
<b>7. *ENVIRONMENTAL REPORT PREPARED FOR RD:</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
* This form can be used to document the consideration and incorporation by reference of environmental information from any source				
<b>8. Section 106 Findings:</b>				
No Potential to Affect <input checked="" type="checkbox"/>		No Adverse Effect to Historic Properties <input type="checkbox"/>		
No Historic Properties Affected <input type="checkbox"/>				
<b>9. Endangered Species Act, Section 7 Findings:</b>				
Species/Habitat - Not Present <input type="checkbox"/>		Species/Habitat Present - May Affect, Not Likely to Adversely Affect <input type="checkbox"/>		
Species/Habitat - No Effect <input checked="" type="checkbox"/>				
<b>10. IF PREPARED, ATTACH ENVIRONMENTAL REPORT (SEE EXHIBIT C)</b>				
For the items listed below, indicate either a "Yes" or "No" in the appropriate columns. If the answer is "Yes" in the "Adversely Affected" column for any listed resources, then an extraordinary circumstance exists and the proposed action is not eligible for a Categorical Exclusion.				

Resources	Resources Present		Effects to Resources		
	Yes	No	No Effect	Affected	Adversely Affected
a. Historic Properties/Cultural Resources (Historic Properties listed or eligible for listing in the National Register of Historic Places, sites of cultural or religious significance to tribes)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Threatened or Endangered Species, Critical Habitat, State Listed Species	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Wetlands	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Floodplains (100 or 500 year floodplains)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Formally Classified Lands (State/Federal Parks, Monuments, Natural Landmarks, Wilderness Areas, Wild and Scenic Rivers, National Forest System Lands, other Federal or State Lands, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Water Resources (Sole Source Aquifers, Well-head protection areas, Watershed Protection Areas, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Coastal Resources (Coastal Barrier Resources System or Coastal Zone Management Areas)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Coral Reefs or Protected aquatic habitats (Only applies to American Samoa, Florida, Guam, Hawaii, Northern Marianna Islands, Puerto Rico, U.S. Virgin Islands)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Questions	Yes	No			
i. Is the proposal located on Important Farmland (Prime Farmland, Unique Farmland, Farmland of Statewide Importance, Farmland of Local Importance) and if so, has Form AD-1006 been completed?	<input type="checkbox"/>	<input type="checkbox"/>			
j. Does the project threaten a violation of local, state, or federal statutory, regulatory, or permitting requirements?  Have all necessary permits been identified?	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>			
k. Is the proposal located within EPA-designated Non Attainment or Maintenance Areas for Air Quality Criteria Pollutants?	<input type="checkbox"/>	<input type="checkbox"/>			
l. Does the proposal result in the production of unpermitted hazardous materials or waste, or consist of construction of a new RCRA hazardous materials handling facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

Table (Con.)

m. Does the proposal have any Environmental Justice concerns or disproportionately high and adverse human health or environmental effects on minority populations or low-income populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
n. Is the proposal controversial for environmental reasons? If so, attach a summary of the controversy(ies) and any actions taken and resolutions necessary to respond to the concerns.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
o. Is the proposal controversial for other than environmental reasons? If so, attach a summary of the controversy(ies) and any actions taken and resolutions necessary to respond to the concerns.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**11. FINDING:**

I find that the proposal meets the criteria established in 7 CFR §1970.53, "Categorical Exclusions Involving No or Minimal Disturbance," or §1970.54 (c), "Categorical Exclusions Involving Small-scale Development." Upon review of the proposal's description or the Environmental Report I find that the proposal is consistent with 40 CFR §1508.4, "Categorical Exclusion" and does not have any extraordinary circumstances or that the proposal individually or cumulatively does not have a significant effect on the human environment and, therefore, neither an Environmental Assessment nor an Environmental Impact Statement is required.

RUS has concluded its environmental review of all projects include herein as provided in 7 C.F.R. §1970.11(c). The cooperative is responsible for acquiring the necessary permits for construction and operation of the proposed projects and for implementing all environmental commitments made in the CWP and its environmental documentation. Additional state and federal permits/reviews may be required for projects sited on publicly owned lands or that cross protected streams and wetlands. Additionally, the borrower agrees that should any threatened or endangered species, cultural resources or environmentally sensitive sites be discovered during construction, the borrower will cease construction and notify RUS and the appropriate agencies immediately.

---

**12. SIGNATURES:**

---

**RICHELLE  
RICHARDSON**

Digitally signed by RICHELLE  
RICHARDSON  
Date: 2023.11.16 07:35:16  
-05'00'

11/16/2023

---

**12a. SIGNATURE OF PREPARER**

---

**DATE**

---

Richelle Richardson

---

General Field Representative

---

**NAME OF PREPARER**

---

**TITLE**

---

**12b. SIGNATURE OF STATE ENVIRONMENTAL  
COORDINATOR OR NATIONAL ENVIRONMENTAL STAFF**

---

**DATE**

---

**NAME OF STATE ENVIRONMENTAL COORDINATOR OR  
NATIONAL ENVIRONMENTAL STAFF**

---

**TITLE**

---

**MARK BARTHOLOMEW**

Digitally signed by MARK  
BARTHOLOMEW  
Date: 2023.11.16 08:04:28 -05'00'

11-16-2023

---

**12c. SIGNATURE OF APPROVING OFFICIAL**

---

**DATE**

---

Mark Bartholomew

---

Supervisory General Field Representative

---

**NAME OF APPROVING OFFICIAL**

---

**TITLE**

VA0002 Craig-Botetourt Electric Cooperative 2024-2027 CWP

Project Descriptions for Categorically Excluded Proposals Not Normally Requiring an ER (7.CFR.1970.53)

Project Info: Environmental Review																
740c RUS Code No.	New or upgraded substation projects: proposed MVA	Project voltage (select from drop-box)	Line construction information			Proposed Class within 1970.53	Brief project description (abbreviated from 740C description; i.e. capacity increase, line rebuild, new line, re-span line, line conversion, etc.)	Project Location Information							1970.52: Extraordinary Circumstances: (Yes/No)	
			Existing line: OH or UD	New Line: OH or UD	Length (Miles)			Right of Way				Crossings/Endangered Species				
								Is entire ROW: Existing, New, Combination	Is entire ROW with Station, Ind. Part, Public, Private, Mixed-use	Right of Way Width - Line Condition (ft)	Right of Way Acreage - New Substations (choose one)	Is tree clearing required? (Yes/No)	Does project cross any Federal, State, Tribal (Yes/No)	Does Project cross any floodplain, river, stream, wetland? (Yes/No)		Any threatened or endangered species in proximity (Yes/No)
101			UD	29	(c)(8)	New line for service connections	Combination		N/A	N/A	Yes	N/A	N/A	N/A	N/A	
102			OH	22	(c)(8)	New line for service connections	Combination		N/A	N/A	Yes	N/A	N/A	N/A	N/A	
301-24			OH	6.40	(d)(4)	Bessemer 1-1, Craig Creek Rd, 3Ø 4 ACSR and 1Ø ACSR to 3Ø 336.4 ACSR	Existing		N/A	N/A	No	No	No	No	No	
302-24			OH	2.75	(d)(4)	Meadow Creek 3-3, Dicks Creek Rd, 1Ø 6 CWC to 3Ø 1Ø ACSR	Existing		N/A	N/A	No	No	No	No	No	
303-24			OH	.65	(d)(4)	Meadow Creek 3-3, Fork Rd, 1Ø 6 CWC to 3Ø 1Ø ACSR	Existing		N/A	N/A	No	No	No	No	No	
304-24			OH	3.45	(d)(4)	Stone Coal Gap 5-2, Upper Craigs Creek Rd, 1Ø 6 CWC to 3Ø 1Ø ACSR	Existing		N/A	N/A	No	No	No	No	No	
358-20			OH	.46	(d)(4)	Ironto 6-1, N Fork Rd, I-81, to Pedlar Rd, Remove road crossing facilities	Existing		N/A	N/A	No	No	No	No	No	
601					(c)(8)	Overhead Transformers	Combination		N/A	N/A	No	No	No	No	No	
601					(c)(8)	Underground Transformers	Combination		N/A	N/A	No	No	No	No	No	
601					(c)(8)	AMI Meters	Combination		N/A	N/A	No	No	No	No	No	
603					(d)(10)	Sectionalizing Equipment	Existing		N/A	N/A	No	No	No	No	No	
604					(d)(10)	Regulators	Existing		N/A	N/A	No	No	No	No	No	
605					(d)(10)	Capacitors	Existing		N/A	N/A	No	No	No	No	No	
606					(d)(4)	Pole Replacements	Existing		N/A	N/A	No	No	No	No	No	
607					(d)(3)	Misc. Replacements	Existing		N/A	N/A	No	No	No	No	No	
608					(d)(4)	Conductor Replacements	Existing		N/A	N/A	No	No	No	No	No	
609					(d)(10)	Feeder Automation between Bessemer 1-2 and Boiling Springs 4-2.	Existing		N/A	N/A	No	No	No	No	No	
612					(d)(10)	Step Transformers	Existing		N/A	N/A	No	No	No	No	No	
616			OH & UD	74.1	(d)(1)(2)	Smart Grid Fiber	Existing		N/A	N/A	No	No	No	No	No	
702					(c)(8)	Security Lighis	Combination		N/A	N/A	No	No	No	No	No	
704					(d)(10)	AMR/AMI Accessory Equip	Station		N/A	N/A	No	No	No	No	No	

5 EXHIBITS

1. DISTRIBUTION

100 a. New Line: (Excluding Tie-Lines)

Construction	Consumers	Miles
101 Underground	212	29.00
102 Overhead	76	22.00

200 b. New Tie-Lines

Line Designation	Miles
*202-20: Ironto 6-1 - Pedtar Rd, Build 0.5 miles of 1Ø 1/0 ACSR	0.50
201-24: Meadow Creek 3-2 - Rocky Gap Rd, Build Tie line to Bellinger 2-3, 3Ø 1/0 ACSR	0.60
202-24: Meadow Creek 3-2 - Waiveville Rd, Build Tie line 1Ø 1/0 ACSR	0.30
203-24: Stone Coal Gap 5-3 - Catawba Rd, Build Tie line to split 1Ø 1/0 leg	1.10

300 c. Conversion and Line Changes

Line Designation	Miles
*358-20: Ironto 6-1 - Pedtar Rd, Build 0.5 miles of 1Ø 1/0 ACSR	0.46
301-24: Bessemer 1-1 - Rocky Gap Rd, Build Tie line to Bellinger 2-3, 3Ø 1/0 ACSR	6.40
302-24: Meadow Creek 3-3 - Dicks Creek Rd, 1Ø 6 CWC to 3Ø 1/0 ACSR	2.75
303-24: Meadow Creek 3-3 - Fork Rd, 1Ø 6 CWC to 3Ø 1/0 ACSR	0.65
304-24: Stone Coal Gap 5-3 - Upper Craigs Creek Rd, 1Ø 6 CWC to 3Ø 1/0 ACSR	3.45

400 d. New Substations, Switching Stations, Metering Points, etc.

Station Designation	kVA	kV to kV

Was project approved in a previous CWP or Amendment? If yes, provide status. If no, provide anticipated classification (per 7CFR1970)	Will work be entirely within existing ROW, generating station, industrial park or substation fencing? If no, see next column. If yes is SHPO concurrence required for work? If yes, are T&E Species or Critical Habitat located within the county? If yes, are Federal Lands, floodplains or wetlands crossed?	For substations, will the new disturbance be <1 acre, <5 acres, or >5 acres? For lines, provide the voltage, length and ROW width.	Does the project require preparation of an Environmental Assessment of Environmental Impact Statement? If yes, the environmental work must be approved prior to application or removed from ban.
---	--	--	--

No. 1970.53(c)(8)	NA	NA	NA
No. 1970.53(c)(8)	NA	NA	NA

Yes. 1970.54(e)(2), ER approved	No.	14.4 kV, 0.5 mi, 30' ROW	No.
No. 1970.54(c)(2)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	7.2 kV, 0.6 mi, 30' ROW	N/A
No. 1970.54(c)(2)	No.	7.2 kV, 0.3 mi, 30' ROW	N/A
No. 1970.54(c)(2)	No.	14.4 kV, 1.1 mi, 30' ROW (Roadway)	N/A

Yes. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	N/A	N/A
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	N/A	N/A
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	N/A	N/A
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	N/A	N/A
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	N/A	N/A

NA	NA	NA	NA
NA	NA	NA	NA

**5 EXHIBITS**

500 c. Substation, Switching Station, Metering Point Changes	
Station Designation	Description of Changes
<b>600 f. Miscellaneous Distribution Equipment</b>	
<b>601 (1) Transformers and Meters</b>	
Transformers	266
Meters	6581
602 (2) Sets of Service Wires to increase Capacity	0
603 (3) Sectionalizing Equipment	
604 (4) Regulators	
605 (5) Capacitors	150 kVAR
606 (6) Ordinary Replacements	
607 (7) Conductor Replacements (Non Site-Specific)	
608 (8) Miscellaneous Replacements	
609 (9) Unassigned	
610 (10) Unassigned	
611 (11) Unassigned	
612 (12) Step Up/Down Transformers	
613 (13) Min/Max Meters	
614 (14) Unassigned	
615 (15) Communications	
616 (16) Smart Grid Fiber	
617 (17) Reserved	
618 (18) Pole Restoration/Pole Trussing & Banding	

Was project approved in a previous CWP or Amendment? If yes, provide status. If no, provide anticipated classification (per 7CFR1970)	Will work be entirely within existing ROW, generating station, industrial park or substation fencing? If no, see next column. If yes is SHPO concurrence required for work? If yes, are T&E Species or Critical Habitat located within the county? If yes, are Federal Lands, floodplains or wetlands crossed?	For substations, will the new disturbance be <1 acre, <5 acres, or >5 acres? For lines, provide the voltage, length and ROW width.	Does the project require preparation of an Environmental Assessment or Environmental Impact Statement? If yes, the environmental work must be approved prior to application or removed from ban.
---	--	--	--

NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	NA	NA
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	NA	NA
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	NA	NA
No. 1970.53(d)(4)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
No. 1970.53(d)(1)	Yes. No SHPO/species/habitat/federal lands/waters of the US present	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA



5 EXHIBITS

- 700 g. Other Distribution Items
  - 701 (1) Engineering Fees \_\_\_\_\_
  - 702 (2) Security Lights \_\_\_\_\_
  - 703 (3) Reimbursement of General Funds (see a \_\_\_\_\_
  - 704 (4) Load Management & SCADA \_\_\_\_\_
  - 705 (5) Automated Meter Reading Equip. \_\_\_\_\_
  - 706 (6) Broadband over Power line (BPL) \_\_\_\_\_
  - 707 (7) GIS Hardware \_\_\_\_\_
  - 708 (8) GIS Software \_\_\_\_\_
  - 709 (9) GIS Field Inventory \_\_\_\_\_

Was project approved in a previous CWP or Amendment? If yes, provide status. If no, provide anticipated classification (per 7CFR1970)	Will work be entirely within existing ROW, generating station, industrial park or substation fencing? If no, see next column. If yes is SHPO concurrence required for work? If yes, are T&E Species or Critical Habitat located within the county? If yes, are Federal Lands, floodplains or wetlands crossed?	For substations, will the new disturbance be <1 acre, <5 acres, or >5 acres? For lines, provide the voltage, length and ROW width.	Does the project require preparation of an Environmental Assessment of Environmental Impact Statement? If yes, the environmental work must be approved prior to application or removed from ban.
---	--	--	--

NA	NA	NA	NA
No	NA	NA	NA
NA	NA	NA	NA
No	NA	NA	NA
No	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

- 800 2. Transmission
  - a. New Line
 

<u>Line Designation</u>	<u>Wire Size</u>	
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

- 900 b. New Substation, Switching Station, etc.
 

_____
_____
_____
_____

NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

- 1000 c. Line and Station Changes
 

_____
_____
_____
_____

NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA



**5 EXHIBITS**

		Was project approved in a previous CWP or Amendment? If yes, provide status. If no, provide anticipated classification (per 7CFR1970)	Will work be entirely within existing ROW, generating station, industrial park or substation fencing? If no, see next column. If yes is SHPO concurrence required for work? If yes, are T&E Species or Critical Habitat located within the county? If yes, are Federal Lands, floodplains or wetlands crossed?	For substations, will the new disturbance be <1 acre, <5 acres, or >5 acres? For lines, provide the voltage, length and ROW width.	Does the project require preparation of an Environmental Assessment of Environmental Impact Statement? If yes, the environmental work must be approved prior to application or removed from ban.
1100	d. Other Transmission Items				
1101	(1) R/W Procurement	_____	NA	NA	NA
1102	(2) Engineering Fees	_____	NA	NA	NA
1103	(3) Reimbursement of General Funds (see schedule)	_____	NA	NA	NA
1104	(4)	_____	NA	NA	NA
1200	3. GENERATION (including Step-up Station at Plant)				
1201	a Fuel	_____	NA	NA	NA
1202	b.	_____	NA	NA	NA
1300	4. HEADQUARTERS FACILITIES				
1301	a. New or additional Facilities	_____	NA	NA	NA
1302	b.	_____	NA	NA	NA
1400	5. ACQUISITIONS				
1401	a.	_____	NA	NA	NA
1402	b.	_____	NA	NA	NA
1500	6. ALL OTHER				
1501	a.	_____	NA	NA	NA
1502	b.	_____	NA	NA	NA



Rural Development

November 16, 2023

Electric Programs  
Rural Utilities Service

1400 Independence Ave SW  
Room 5165 – STOP 1560  
Washington, DC 20250

Voice: 202.720.9545  
Fax: 202.720.1725

Mr. Jeffery M. Ahearn  
Chief Executive Officer  
Craig-Botetourt Electric Cooperative  
P.O. Box 265  
New Castle, Virginia 24127-0265

Dear Mr. Ahearn:

I have reviewed Craig-Botetourt Electric Cooperative's 2024-2027 Construction Work Plan and find it satisfactory for loan contract purposes. The effective date of the 2024-2027 Construction Work Plan is January 1, 2024.

Approval to proceed with proposed construction is contingent upon RUS review and approval of the Environmental Report (ER). It is suggested that you make a special effort to inform all of the cooperative's employees and contractors, involved in the construction of utility plant, of any commitments made in the ER covering the construction of facilities recommended in the work plan.

Changes or additions to the construction work plan may require RUS approval. The environmental acceptability of any such changes shall be accomplished by the same ER procedures used in connection with this work plan approval.

It is your responsibility to determine whether or not loan funds and/or general funds are available for the proposed construction. If general funds are used, the requirements as outlined in RUS Bulletin 103-2, shall be complied with. All construction in the work plan shall be accomplished in accordance with RUS requirements. Specific reference should be made to 7 CFR Part 1726.

Sincerely,

**RICHELLE RICHARDSON** Digitally signed by RICHELLE RICHARDSON  
Date: 2023.11.16 06:20:20 -05'00'

RICHELLE L. RICHARDSON  
General Field Representative  
Office of Operations  
USDA Rural Utilities Service – Electric Program

cc: Kenneth Solano, Chief, Engineering Branch

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