

Application to DHCD Submitted through CAMS

Mecklenburg County

Meck Co/BIT Long Branch Fiber Project

Application ID: 59810312018141211
Application Status: Pending
Program Name: Virginia Telecommunications Initiative 2019
Organization Name: Mecklenburg County
Organization Address: 350 Washington Street
Boydton, VA 23917-0307
Profile Manager Name: Nancy Rowe
Profile Manager Phone: (434) 738-6191
Profile Manager Email: nancy.rowe@mecklenburgva.com

Project Name: Meck Co/BIT Long Branch Fiber Project
Project Contact Name: Wayne Carter
Project Contact Phone: (434) 738-6191
Project Contact Email: wayne.carter@mecklenburgva.com
Project Location: Long Branch Subdivision
Bracey, VA 23919-1234
Project Service Area: Mecklenburg County

Total Requested Amount: \$205,550.21

Required Annual Audit Status: Accepted

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$205,550.21	\$51,387.55	\$256,937.76
Construction	\$188,886.00	\$0.00	\$188,886.00
Construction Related Soft Costs	\$0.00	\$30,221.76	\$30,221.76
Other: ONT Equipment	\$0.00	\$16,800.00	\$16,800.00
Other: Central Office Equipment	\$16,664.21	\$4,365.79	\$21,030.00
Total:	\$205,550.21	\$51,387.55	\$256,937.76

Budget Narrative:

Buggs Island Telephone Cooperative (BIT) and Mecklenburg County are applying for a grant in the amount of \$256,937.76 from the DHCD to aid in the construction to expand high speed broadband by means of fiber to the home in the proposed funding eligible area of Long Branch. BIT has committed to fund 20% of the project in the amount of \$51,387.55 with its own funds. We are requesting \$205,550.21 from the DHCD grant funds.

Questions and Responses:

1. Project Area

Provide a map and description of the proposed geographic area including specific boundaries of the project area e.g.; street names, local and regional boundaries, etc. Explain why and how the project area(s) was selected. Attach a copy of your map(s).

Answer:

Several populated areas were considered by Buggs Island Telephone Cooperative (BIT) as in need of broadband service as defined by the DHCD grant criteria. BIT engaged in extensive research and prioritized these areas in an effort to exercise best practices by the company. The area selected for the project, for the purpose of this application, is identified as Long Branch, a remote residential populated rural area in Mecklenburg County. The area collectively consists of the following roads: Clary Lane, Long Branch Drive, Brookstone Drive and Oak Court. Additional households located alongside Nellie Jones Road and the northern corridor of Clary Lane will also benefit from the project as these homes will be passed to reach the Long Branch area.

This project is defined as four (4) miles of new plant construction, passing approximately 102 households; all 102 households are currently served by BIT's DSL service, of which, 42 households or 41% are considered unserved according to DHCD definition. The remaining 60 households passed will also benefit from fiber-to-the-home at BIT's expense. The map depicting the project area is attached (Attachment #4).

2.

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Describe your outreach efforts to identify existing providers in the selected project area. Provide a map and list of all existing providers (fixed and wireless), and speeds offered within the project area. Provide a detailed explanation of how this information was compiled and the source(s).

Answer:

BIT is currently the exclusive Incumbent local exchange carrier for the Long Branch area other than satellite and cellular broadband service providers which operate with data caps. There are currently no wireless broadband providers in or near the proposed area if you exclude satellite and cellular broadband service providers.

The FCC Broadband Map shows that BIT is the only provider of broadband (ADSL) in the proposed area but broadband speeds of at least 10Mbps/1Mbps are not available to any household in the proposed area due to the distance from the ADSL equipment. Cellular broadband providers in the area include Verizon and AT&T but broadband speed tests conducted by BIT thru-out the proposed area confirm that the required broadband speed of a least 10Mbps/1Mbps is not available anywhere in the proposed area.

The FCC map is attached (Attachment #5) that provides a list of providers in the proposed service area and the speeds they currently offer.

Supporting sources of information:

<https://www.fcc.gov/reports-research/maps/fixed-broadband-deployment-data/#lat=36.591075&lon=-78.10136&zoom=15>

3. Project Need/Description

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 of 10 Mbps/1 Mbps or less, and with less than 10% service overlap within the project area. Describe the anticipated service overlap with current providers within the project area.

Answer:

BIT is currently the exclusive Incumbent local exchange carrier for the Long Branch area other than satellite and cellular broadband service providers which operate with data caps. There are currently no wireless broadband providers in or near the proposed area if you exclude satellite and cellular broadband service providers.

BIT is the only provider of broadband (ADSL) in the proposed area but broadband speeds of at least 10Mbps/1Mbps are not available to any household in the proposed area due to the distance from the ADSL equipment. Cellular broadband providers in the area include Verizon and AT&T but broadband speed tests conducted by BIT thru-out the proposed area confirm that the required broadband speed of a least 10Mbps/1Mbps

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is not available anywhere in the proposed area.

This area includes no service overlap with current providers.

Attachment #11 demonstrates the proposed area is unserved according to the DHCD definition due to BIT's current network that is unable to provide speeds of at least 10 Mbps/1 Mbps.

Supporting sources of information:

https://www.internode.on.net/residential/broadband/adsl/easy_broadband/performance/

<https://nbnmyths.wordpress.com/why-not-fttn/>

4. Describe population both in terms of absolute numbers within the project area and the eligible users that will be served by the proposed project. Describe the basis for these projections.

Answer:

This project is defined as four (4) miles of new plant construction, passing approximately 102 households; all 102 households are currently served by BIT's DSL service, of which, 42 households or 41% are considered unserved according to DHCD definition.

Of the 42 households located in the proposed unserved area, approximately 27 currently have BIT's DSL service but cannot achieve speeds up to 10Mbps/1Mbps. Of the 42 locations, all are listed as residential, but according to the letters of support, being able to work from home with the higher internet speeds is essential.

The letters of support also addressed the issue of residents needing higher internet speeds for educational purposes, as many of the households contain school-aged children. Long Branch is a community comprised of households that are unable to receive DSL speeds of 10 Mbps down and 1 Mbps up. Households in this community are receiving limited average DSL speeds of 5 Mbps down and .5 Mbps up. This rural community increasingly faces challenges due to slow, sporadic and limited broadband services. They rely on broadband service to connect them to the global marketplace for basic lifestyle needs such as education, distance learning, teleworking, telemedicine and entertainment. Sustainable broadband to perform daily activities is critical to this remote rural community.

A lack of internet is forcing many young people to move away, leaving their rural homes altogether to find modern career opportunities. BIT has many elderly residents who have retirement homes within the Long Branch area who are needing the assistance of more online health care because of their inability to leave their homes and travel to a medical facility.

The issues faced on a daily basis by this community are the inability to 1) obtain educational information, 2) home school children, 3) work from home, 4) operate a home-based business, 5) apply for a job, and 6) access health records and perform research. In summary, this community is severely limited by its disconnection to the internet global economy.

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As stated above, BIT currently serves the project area with DSL as the Incumbent carrier and communicates daily with the residents of the proposed project area giving BIT a full understanding of how the lack of high speed internet presents disadvantages to the lives of these residents. This area is too far from the closest network remote to aid in providing broadband speeds that meet the DHCD definition of served.

5. Indicate the numbers of businesses and community anchor institutions the proposed project will pass in the project area.

Answer:

The project area is extremely rural and solely residential and currently does not include any community anchor institutions or larger businesses. Vital broadband service will be provided to any Critical Community Facility including local schools, libraries, hospitals, police, fire and rescue services that may move into the area. However, residing in the project area there are emergency first responders, nurses, teachers, and others who assist and work for Critical Community Facilities.

As plans for the future and future growth of this area, residents within the project area and the surrounding communities would like to see Bracey become an incorporated town. Availability of high-speed internet would only enhance this chance and entice businesses to move here which will overall boost the local economy and create jobs essentially keeping our young people in the community.

6. Provide the anticipated take rate for the proposed service within one year of project completion and describe the basis for the estimate. Also provide all actions to be implemented to reach the identified potential customers within the project area.

Answer:

BIT anticipates a take rate of 70%. This is based on the current take rate that BIT is experiencing within its current network. BIT has approximately 3,035 telephone lines of which 2,079 have subscribed to internet service.

BIT understands the importance of the priority given to satisfying stakeholders' needs and interests and wants to ensure their involvement in the project for it to be successful. In fact, in 2017, BIT conducted a survey of its members to determine what services they require and how higher broadband speeds would be beneficial. The majority response was higher broadband speeds were a necessity for their everyday lives.

The communications effort supporting the evolution of a fiber service will consist of strategic phases:

- Phase 1: Support of the residents within the proposed area
- Phase 2: Saturate the area with direct advertising (yard signs, door hangers, and invitations)
- Phase 3: Personal meetings with the potential customers
- Phase 4: Personal contact with each potential customer

BIT will also utilize the Home Owners Association (HOA) within the proposed area to reach out and inform all residents of the designated project area, with materials provided by BIT of the impending fiber

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project. The materials will include an explanation of the project, the benefits of having fiber to the home, and an invitation to a meeting that will be hosted by BIT. We will continuously keep the HOA informed of the progress of the project. We welcome the community's involvement.

BIT understands that public awareness and support is extremely important and wanted to include our approach in this plan. See BIT's public relations strategies below to ensure stakeholder awareness.

- Web Presence – BIT has developed an informative, intuitive and user-friendly website containing useful information, not only for BIT's product/service offerings, but updates and the progress of upcoming fiber deployments.
- Social Media Networking – Updates to all social networking sites on Facebook, Twitter, Instagram, etc. that defines project updates supported with pictures, videos and news about the project, service availability and pricing along with testimonials from stakeholders within the proposed.
- Blog Strategy - No business can afford not having a successful blog. It's the core of a modern, 'Social' marketing and communications strategy. It should enhance the company's strategic positioning, promote its product/service category, and define credentials, messages and benefits as well as drive a successful thought leadership and 'challenger' framework. The blog will be BIT's marketing front foot.
- Schedule face-to-face meetings with local and state officials to deliver project updates in their respective communities and keep them abreast of the specific time frames that service will be available to their residents and businesses.
- Press releases to the local media announcing service availability and project milestones.
- Meet with potential customers; distribute brochures detailing BIT's service offerings and availability.
- Stake signs in potential customer neighborhoods stating that high-speed fiber internet services are provided by BIT and available in the immediate area.
- Door hangers delivered to announce the fiber service and contact information.
- Videos to upload on BIT's website and Facebook page showing the fiber construction, completion stages at the subscriber's location and interviews with the subscribers.

7. A statement whether the proposed project is targeting the "last mile," "middle mile," or "backbone" portion of the broadband infrastructure.

Answer:

This project will be comprised of backbone, middle mile, and last mile infrastructure to serve the homes that extend 2 miles beyond BIT's current remote. All of the facilities will be owned and maintained by BIT.

8. For wireless projects only: Please explain the ownership of the proposed wireless infrastructure. Will the wireless co-applicant own or lease the radio mast, tower, or other raised structure onto which the wireless infrastructure will be installed?

Answer:

N/A

9. Provide a description of the broadband service to be provided, including estimated download and upload speeds, whether that speed is based on dedicated or shared bandwidth, and the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate.

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Broadband service is to be provided by a Fiber-to-the-Home (FTTH) network with single mode fiber from BIT's Bracey Central Office.

Broadband high-speed internet will be available to 100% of the residents in the project area. Subscribers will be charged a flat monthly rate regardless of bandwidth usage, and BIT estimates that the monthly access rates to residential subscribers will be between \$80 and \$200 per month for internet service and a free phone line based on the selected package. A dedicated fiber will be provided to each service location with initial minimum speeds of 25 Mbps download and 5 Mbps upload, with higher speed packages available up to 1 Gigabit.

The Outside Plant fiber network will consist of the placement of 100% buried fiber. The proposed fiber will be ribbonized Corning 288, 144, 96, 72 and 36 count cables. The use of ribbon fiber enables initial reduced splicing costs and is becoming the fiber type used by most companies deploying a FTTH network.

A schematic reflecting the overall fiber routing is attached (Attachment #15) to illustrate the fiber design.

10. 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. Also describe specific advantages of using this technology. Provide a detailed explanation on how this information was compiled and source(s). For wireless projects, provide a propagation map including the proposed project.

Answer:

The following information was provided by the engineering firm that BIT will utilize for the project. The existing middle mile equipment from the Beechwood Exchange to the Bracey Remote Office that will be used to backhaul the new service is Calix E-7 equipment with 1 Gig transport. This will be upgraded to 10 Gig by replacing the optics resulting in 10 Gig service from the Beechwood Exchange to the existing Internet access location at the Bracey Remote Office. It should also be noted that the proposed E-7 platform can be used for GPON or Active design networks depending on the cards equipped and the desired service. The cost difference between GPON and Active is minimal in this design as the outside plant fiber sizing would not change. The Splitters in the GPON case or the Fiber Cross-connect frame in an Active plan would both be located in the Bracey Remote Office. BIT currently uses the Calix E-7 equipment in their existing Network.

The design for the FTTH service within the Long Branch area is with an Active Ethernet platform. The advantages of using FTTH versus traditional copper plant includes not only greater bandwidth but low attenuation, longer distance, enhanced security and immunity to many environmental factors, thus resulting in heightened reliability to the customers.

The outside plant fiber distribution network will utilize Corning manufactured steel-shielded single-mode ribbon fiber, in sizes of 288, 144, 96, 72, and 36 to be direct buried on existing VDOT Right of Way. In some instances, aerial plant will be constructed in the event environmental barriers prevent direct buried construction. Fiber plant and service drops will be accessible above ground in Charles Industries CFDP 210 pedestals which are RDUP listed and exceed Telcordia GR-771-CORE standards for fiber optic splice enclosures. Below ground Commscope 450 series fiber splice enclosures will be housed in Quazite Tier 15 round box polymer hand holes rated for 15,000 lbs and designed for maximum longevity. All service drops will be constructed with Corning ROC

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Environmentally Hardened Pre-Terminated Optitap fiber, which will allow for maximum durability and ease of use for the outside plant's entire lifespan.

The high-speed broadband internet service at the Bracey GPON equipment location will be transported to Beechwood via 10G transport facilities where it will be aggregated along with the Beechwood GPON traffic and uplinked via diverse facilities to Windstream (3 Gbps) and Cogent (1 Gbps). Voice will be provided by an existing soft switch owned by BIT and located at the Beechwood central office.

11. Project Readiness

What is the current state of project development (i.e. planning, preliminary engineering, final design, etc.)? Prepare a detailed project timeline or construction schedule, which identifies specific tasks, staff, contractor responsible(s), collection of data, etc., and estimated start and completion dates. The timeline should include all activities being completed within 12 months of contract execution with DHCD.

Answer:

The proposed project schedule/timeline is included as Attachment #14 for the Long Branch FTTH project. Following is an analysis of the activities by timeline category and status of the project as of November 16, 2018:

Preliminary Design: Status - 100% Complete - The preliminary design of both the electronic office equipment and the outside plant buried fiber network was completed by Joel Williams and Luiguy Massanga of Mid South Consulting Engineers on October 5th, 2018. This included all phases of the planning process including the number of potential customers and the most economical routing of the fiber cable to the areas within the proposed serving areas. This data was used to determine correct fiber sizes not only for the existing homes, but for future growth within the area boundary to be served. Also, the electronic office equipment planning was completed based upon the collected data. All planning information was also used to develop a budgetary cost analysis for the project.

Field Staking: Status - 100% Complete - Field Staking began on Oct 8th, 2018 and was completed on November 2nd, 2018 by Luiguy Massanga of Mid South Consulting Engineers. This included driving orange marker stakes in the field at all new outside plant locations, paint marking all culverts and new locations on the road pavement, measuring and hand drafting the construction prints overtop a satellite imagery base map, and calculating all needed construction material units on a master tabulation spreadsheet in Excel.

Project Review: Status - 100% Complete - The final project review began on November 7th, 2018 and was completed on November 16, 2018 by Mark Williams of Mid South Consulting Engineers. This review included transferring the hand drawn construction prints to a finalized annotated PDF format, double checking all measurements and unit calculations, adjusting the construction prints for maximum efficiency, and drawing a finalized distribution fiber schematic in Visio to accompany the construction prints and master tabulation sheet. Upon completion of this review, the FTTH project is 100% construction ready. The construction prints, master tabulation spreadsheet, and fiber distribution schematic are all included as Attachment #15 for the Long Branch FTTH project.

Grant Application & Approval: Status - Pending - This section of the timeline accounts for the review, submittal, and approval of the VATI / DHCD grant application by all parties involved. The timeline shown on the attachment is estimated based on our prior experience with the DHCD grant approval process from 2017-2018 on the Great

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Creek FTTH project which was approved in late February 2018.

Construction Bidding & Approval: Status - *Pending* - Upon final approval of the DHCD grant application, Larry Hartman, of Mid South Consulting Engineers, with the concurrence of BIT, will submit a bid package containing the finalized construction prints, master unit tabulation sheet, and fiber schematic to a minimum of (3) contractors for competitive bids. The bid packages will be submitted to bidders by February 25th, 2019 and be returned no later than March 8, 2019. Based on the low bidder and with the concurrence of BIT, Robert Schlabach, of Mid South Consulting Engineers, will prepare an RUS style 773 Outside Plant Construction Contract which will then be submitted to the BIT Board of Directors for their approval on March 19th, 2019.

Material Order Lead Time: Status - *Pending* - This includes authorizing the Outside Plant Contractor to order all materials for construction based on the units required in the approved Contract. In order to reduce any material lead time delays, as soon as the low bidder is identified, a pre-authorization letter will be granted by BIT so that the contractor may begin ordering material immediately. In addition, BIT will order all service drop cable, electronic office equipment, and customer ONT units that are required for the project during this time period. Assistance by Robert Schlabach of Mid South Consulting Engineers will be provided in ordering the electronic office equipment as required. These tasks are scheduled to begin by March 11, 2019 with all materials (electronic office equipment and all outside plant construction material) received by April 29, 2019, which is based on the current 6-8 week lead time on major construction items such as mainline cable. In addition, Russell Feight, of Mid South Consulting Engineers, will obtain a VDOT Land Use Permit during this time period in order for construction to commence by April 29th, 2019, a process which based on our prior experience with regional VDOT should be completed in as little as 3 weeks from selection of the low bidder, by March 29th, 2019.

Construction: Status - *Pending* - Construction is scheduled to begin April 29th, 2019 with all work completed by July 19th, 2019. This proposed timeline is based on the planned 60 work day, Monday through Friday contract schedule, with extra days granted by the Resident Engineer for holidays and rain days. This includes all outside plant construction by the approved contractor and all installation of the electronic equipment in the Bracey Remote Office by BIT. Mid South Consulting Engineers, Inc. will provide an on-site Resident Engineer, Mark Williams, for the outside plant construction to ensure all units are completed to the contract specifications. A weekly progress report will be submitted to BIT by the Resident Engineer to track construction progress accurately and confirm the scheduled completion date is met.

Customer Activation: Status - *Pending* - The customer activation of service by BIT is scheduled to begin no later than July 22nd, 2019 and complete by Aug 16th, 2019. This timeline is based on the proposed 42 customers in the DHCD Grant area, with an average of 2 customers activated per day by BIT over a period of 4 weeks.

12. Matching funds: Provide a description of the matching funds the applicant and co-applicant will invest in the proposed project, (VATI funding cannot exceed 80% of total project cost). The Funding Sources Table should be completed.
 - i. For each element of matching funds in the description, indicate the type of match (cash, salary expense, or in-kind contribution).
 - ii. Identify whether the applicant or co-applicant is responsible for providing each element of the proposed matching funds.

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iii. Include copies of vendor quotes or documented cost estimates supporting the proposed budget.

Answer:

For this project BIT will be providing approximately 20% of the total project cost in cash matching funds.

1. BIT will be providing all of the services (e.g., planning and engineering), labor and materials necessary for this project. The value of these services and materials are approximately 20% of the total project.
2. The applicant, Mecklenburg County, is not responsible for providing any matching funds, only the co-applicant, BIT.
3. The vendor quotes and cost estimates supporting the proposed budget are included in Attachment #9.

See Attachment #13 for the Funding Sources Table.

13. Identify key individuals, including name and title, who will be responsible for the management of the project. Describe their role and responsibilities for the project. Present this information in table format.

Answer:

BIT COMMUNICATIONS

Long Branch Fiber to the Home Project

PROJECT TEAM

Attachment #2

BIT

NAME

TITLE

ROLE/RESPONSIBILITIES

Michele Taylor

General Manager

Responsible for all decisions that are proposed for the Long Branch Fiber Project. This includes interaction with the BIT Board of Directors on any issues that require their attention/approval. She is also responsible for approval of all Contracts associated with the project as well as all invoicing required for both the Central Office equipment as well as the Outside Plant Construction costs.

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Glenn Isaccs	Wireless Network Manager	He is responsible for the coordination of all deliverables on the Long Branch Fiber Project with Mid-South Consulting Engineers, Inc. This includes the design, Outside Plant construction, review of Contracts and is the primary point of contact for the project.
Eugene Hostetter	Outside Plant/Central Office Manager	He is responsible for the coordination of the Central Office Equipment for the Long Branch Fiber Project. His responsibilities include coordination with Mid-South Consulting Engineers in obtaining Equipment quotes from the Equipment vendor, ordering the Equipment and the installation of the Central Office equipment for the project.
Dina Blanton	Marketing/Public Relations Coordinator	She is responsible for the coordination of all marketing campaigns, advertising materials and making sure the project residents are informed, educated and updated on the project and the benefits of fiber.
MID-SOUTH CONSULTING ENGINEERS, INC.		
Howard Tipton	Vice President-Engineering	He is responsible for the coordination of the FTTH design as well as the budgetary pricing for the project. He is also responsible for the preparation of the Request for Proposal (RFP) for approval by BIT to engage Mid-South Consulting Engineers, Inc. He will also interact with all Mid-South team members, as required, during the project implementation design and be involved in the project construction.
Russ Feight	CAD Supervisor	He is responsible for the CAD group to produce the field staking sheets. Also, once the field staking is completed, he will coordinate the final

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		completion of all CAD-generated drawings for the project.
Larry Hartman	Project Manager-Outside Plant	He is responsible for all phases of the Outside Plant portion of the Long Branch Fiber Project. This includes review of the final staking sheets, coordination of the Contract preparation and coordination with the Inspector assigned during the Outside Plant construction of the project. In addition, he will review and forward to BIT the weekly Progress Reports of construction. He will review and submit Contractor's invoices to BIT for approval. He will inform the Mid-South Vice President-Engineering of any items that may require his input/attention.
Luiguy Massanga	Resident Engineer-Outside Plant	He is responsible for the actual field staking of all units required for the Outside Plant fiber construction.
Robert Schlabach	Project Manager-Central Office	He is responsible for any coordination with BIT on the quotes from vendors for the Central Office equipment for the project. He will also assist in ordering the equipment as required. He is also responsible for the budgetary pricing for the Central Office equipment for the plan design.
Mark Williams	Outside Plant Construction Inspector	He is responsible for on-site inspection of the Outside Plant construction phase of the project. He will monitor the construction quality as well as quantity of construction. He will prepare a weekly Progress Report and submit it to the Mid-South Project Manager for review and submittal to BIT. He will interface with the Contractor and resolve any issues that may arise during the construction of the project.

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Southside Planning District Commission

Deborah Gosney

Grant Administrator

She is responsible for preparing the draw remittances and submitting the required reporting.

14. Applicant and Co-Applicant: A description of the public-private partnership involved in the project. Detail the local government assistance: Local government co-applicants should demonstrate assistance to project that will lower overall cost and further assist in the timely completion of construction, including assistance with permits, rights of way, easement and other issues that may hinder or delay timely construction and increase cost.

i. If the partnership is formalized in a written agreement provide a copy of that agreement.

ii. If the partnership has not been formalized, provide a short description of the project management role, financial commitment, or other contribution to the project for the applicant and co-applicant and any additional partners.

Answer:

A partnership between Mecklenburg County and BIT has not yet been formalized for this project, but both partners are collaborating on an agreement to be executed upon receiving notification that the DHCD grant was awarded. Included as Attachment #6 are the minutes from Mecklenburg County Board of Supervisors evidencing the partnership with BIT and authorizing BIT to submit the application.

An agreement would cover the following:

BIT would commit to implement the Project Management Plan within the designated period, to provide updates to the County on the status of the project, to notify the County, if County assistance were needed, to submit requests for payment as work was completed, to complete all work within the required timeframe, and to provide the County with information showing the locations where broadband had been enabled.

The agreement would also be expected to include the County's commitment to review information provided by BIT, to provide any necessary rights of way, and to assist in contacting citizens and others when appropriate to assist in completing the project within the required timeframe.

15. Project Budget and Cost Appropriateness

Applicants shall provide a detailed budget as to how the grant funds will be utilized, including an itemization of equipment and construction costs and a justification of proposed expenses. Expenses should be substantiated by clear cost estimates.

Answer:

The project budget is included in Attachment #1.

16. The cost benefit index is comprised of three factors: (i) state share for the total project cost, (ii) state cost per unit

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passed, and (iii) the internet speed. From these statistics, individual cost benefit scores are calculated. Finally, the three component scores are averaged together and converted to a 30 point scale to form a composite score.

Answer:

The State share for the total project cost is 80% of \$256,937.76 = 205,550.20 . The state cost per unit (42) passed in the DHCD area is \$4,894.05. Including units passed outside the DHCD funded area, 102 total are passed and the state cost per unit is instead \$2,015.19. All units along the proposed project path will be capable of receiving 1 Gigabit fiber internet service.

17. A description of applicant and co-applicant's history or experience with managing grants and constructing broadband communications facilities in the Commonwealth of Virginia and elsewhere.

Answer:

Buggs Island Telephone Cooperative (BIT), founded in 1951, provides quality communications services and products along with rapid deployment of the latest wireless technology and infrastructure necessary to assist in the economic revitalization efforts of south central Virginia. BIT, located in Bracey, Virginia has been serving its members located in portions of Mecklenburg and Brunswick Counties for 64 years. BIT currently serves 100% of its territory with DSL with approximately 75% that can receive speeds up to 10Mbps, but the remaining areas are too far from a remote to provide the higher speeds. BIT is currently deploying fiber-to-the-home, which will replace its existing copper infrastructure and provide the higher broadband speeds to all its members, beginning in the areas that struggle to receive at least 10 Mbps. BIT has experience with managing grants and constructing broadband communication facilities in the Commonwealth. In portions of Southern Virginia, BIT has provided voice and data services to its members for decades. BIT has built and provided high-speed Internet services to residential and business customers since the inception of those services.

Thriving and operating under the Cooperative principles, BIT has been in business for 64 years dedicated to helping provide high-speed internet, phone and other services to unserved areas. BIT has extensive experience in the design, installation, and maintenance of broadband infrastructure. Today, BIT has approximately 3,050 access lines and over 2,500 internet subscribers (both DSL and Fixed Wireless).

In 2010, BIT was awarded a NTIA federal broadband stimulus grant and a Virginia Tobacco Indemnification and Community Revitalization Commission grant to build a wireless broadband network infrastructure. These grants would then enable BIT to provide wireless broadband access where Buggs Island Telephone Cooperative has Federal Communications Commission wireless licenses. This project, after a technology change and geographic scale-back, was successfully completed on time and within budget and serves five counties with a fixed wireless broadband offering.

Fortunately, because of a prior grant last year through the Virginia Telecommunications Initiative (VATI) and supported by the County of Mecklenburg partnering with BIT, we have just completed deploying fiber-to-the-home to an unserved area within its Cooperative serving area, providing the first fiber-to-the-home to residents in Mecklenburg County! This project is defined as four (4) miles of new plant construction, serving 65 locations and passing another 58 locations currently served by BIT's DSL service but cannot receive speeds up to 10Mbps and was completed in November 2018 providing broadband speeds up to 1 Gigabit.

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Mecklenburg County has worked with numerous state and federal agencies on many different types of Grants.

18. Service

Describe the Internet service offerings to be provided after completion of this project and your price structure for these services. The service offerings should include all relevant tiers.

Answer:

BIT has developed a comprehensive offering of products and services at competitive prices. Switching to a field proven fiber technology and product will allow BIT to provide a more viable service and meet the demand for higher broadband speeds and service. Included in the service offerings are high-speed broadband, voice, unlimited long distance, calling features, webhosting, security service, and computer sales and services.

Upon project completion, BIT will offer the Long Branch area with high-speed fiber-to-the-home service of a minimum 25 Mbps Down/5 Mbps Up that includes “free” phone service and unlimited data for a monthly fee of only \$79.95. Other speed tiers include, but not limited to are: 50 Mbps Down/10 Mbps Up for \$99.95, 100 Mbps Down/25 Mbps Up for \$149.95 and 200 Mbps Down/50 Mbps Up for \$189.95. Higher speed packages up to 1 Gigabit will be available upon grant approval and request.

BIT also provides wired and wireless networking installation services to residents and businesses. BIT also sells and services computers. This service gives customers who desire to purchase a device to access the internet, or need computer repair service for ultimate PC performance, a source to do so.

19. Additional Information

Any other equitable factor that the applicant desires to include.

Answer:

The residents included in this grant have participated in a survey which provided the need for broadband for school, work and teleworking. Many indicate that they are running home based businesses and need faster internet to be competitive. Over the past several years community interest and support for establishing reliable broadband service to this area has been extremely high. The residents of the proposed grant area have been extremely supportive of this grant effort. Neighbors just outside of this community have been cheerleaders for this initiative as well.

There are no Fire/Rescue Departments within the project area but the entire area is served by providers located just outside the project area. High speed broadband is used for everything from hiring, reporting crime statistics to gathering information and is needed to help keep the community safe. Public safety is crucial to our rural remote areas, so improvements in the technology to communicate must be reliable. Higher broadband speeds available to the project area will only improve these public safety issues and could mean the difference between life and death for the areas first responders.

Application to DHCD Submitted through CAMS

Mecklenburg County

Meck Co/BIT Long Branch Fiber Project

Again, this area is not currently served by the definition of the DHCD for broadband. BIT appreciates your willingness to review our application and consider this project as a desired area for this grant. Please find in Attachment #16 letters of support from the residents.

Attachments:

Derivation of Cost (Project Budget)

Attachment1DerivationofCostsProjectBudget1192018120316.pdf

Project Management Plan

Attachment2ProjectManagementPlan1116201894200.pdf

Supporting documentation for costs estimates

Attachment3MecklenburgCountyDHCDConstructionProposalforLongBranch1272018102343.pdf

Map(s) of project area, including proposed infrastructure

Attachment4Map1272018102358.pdf

Map(s) or schematic of existing broadband providers (inventory of existing assets)

Attachment5MapofExistingBroadbandProviders1192018121309.pdf

Documentation of relationship between applicant and co-applicant (formal or informal)

Attachment620181009minutes1272018102638.pdf

Two most recent Form 477 submitted to FCC

Attachment7FormsFCC4771231201763020181272018102856.pdf

Documentation for in-kind contributions, including value(s)

Attachment8CashInKindMatchSourceofMatchingFunds1272018103010.pdf

Documentation supporting project costs (i.e. vendor quotes)

Attachment9MecklenburgCountyDHCDConstructionProposalforLongBranch1272018103104.pdf

Application to DHCD Submitted through CAMS

Mecklenburg County

Meck Co/BIT Long Branch Fiber Project

Documentation of source of match funding

Attachment10SourceofMatchingFunds1272018103157.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment11DocumentationthatProposedAreaisUnserved119201812230.pdf

Documentation that proposed project area is not designated for Connect America Funding (CAF)

Attachment12ConnectAmericaFundingArea1272018103324.pdf

Funding Sources Table

Attachment13VATIFundingSourcesTable9242018933231272018103436.pdf

(Optional) || Project Timeline

Attachment14MecklenburgDHCDProjectTimeline1272018103600.pdf

(Optional) || Project Schematic

Attachment1520181206BRCYF1OSPSCHEMATIC1272018103649.pdf

(Optional) || Letters of Support

Attachment16LettersofSupport127201894330.pdf

(Optional) || Letter of Support from Mecklenburg County

Attachment17SupportLetterfromMeckCo1272018103835.pdf

**Derivation of Cost
Long Branch Project**

Product	Total	VATI	Non-VATI	Source of Estimate	Date
OSP Construction	\$188,886.00	\$188,886.00		Mid-South Engineers	11/1/2018
BDO-205 26 @ \$410	\$10,660.00	\$10,660.00		Mid-South Engineers	11/1/2018
BFO36R 1,800 @ \$2.50	\$4,500.00	\$4,500.00		Mid-South Engineers	11/1/2018
BFO72R 10,300 @ \$2.77	\$28,531.00	\$28,531.00		Mid-South Engineers	11/1/2018
BFO144R 3,800 @ \$3.35	\$12,730.00	\$12,730.00		Mid-South Engineers	11/1/2018
BFO288R 6,200 @ \$4.21	\$26,102.00	\$26,102.00		Mid-South Engineers	11/1/2018
BHF(30x52x43)RD 4 @ \$1,500	\$6,000.00	\$6,000.00		Mid-South Engineers	11/1/2018
BM2 30 @ \$40	\$1,200.00	\$1,200.00		Mid-South Engineers	11/1/2018
BM53F 20 @ \$65	\$1,300.00	\$1,300.00		Mid-South Engineers	11/1/2018
BM60 DROP 350 @ \$6.50	\$2,275.00	\$2,275.00		Mid-South Engineers	11/1/2018
BM60(1-1.25")DP 500 @ \$13.10	\$6,550.00	\$6,550.00		Mid-South Engineers	11/1/2018
BM60(1-2")DP 1,300 @ \$13.40	\$17,420.00	\$17,420.00		Mid-South Engineers	11/1/2018
BM71 300 @ \$9.00	\$2,700.00	\$2,700.00		Mid-South Engineers	11/1/2018
BM83 42 @ \$34	\$1,428.00	\$1,428.00		Mid-South Engineers	11/1/2018
BM-ENTRANCE 1	\$1,625.00	\$1,625.00		Mid-South Engineers	11/1/2018
FTH-PRECON 42 @ \$120	\$5,040.00	\$5,040.00		Mid-South Engineers	11/1/2018
HBFO CO ENT 1	\$1,850.00	\$1,850.00		Mid-South Engineers	11/1/2018
HBFO FOSC 450D 2 @ \$620	\$1,240.00	\$1,240.00		Mid-South Engineers	11/1/2018
HO-1 360 @ \$31	\$11,160.00	\$11,160.00		Mid-South Engineers	11/1/2018
HO-12R 42 @ \$255	\$10,710.00	\$10,710.00		Mid-South Engineers	11/1/2018
SEBO 1P-300' 3 @ \$375	\$1,125.00	\$1,125.00		Mid-South Engineers	11/1/2018
SEBO 1P-500' 21 @ \$600	\$12,600.00	\$12,600.00		Mid-South Engineers	11/1/2018
SEBO 1P-750' 16 @ \$880	\$14,080.00	\$14,080.00		Mid-South Engineers	11/1/2018
SEBO 1P-1000' 2 @ \$1,150	\$2,300.00	\$2,300.00		Mid-South Engineers	11/1/2018
UD(1x2-4") 400 @ \$14.40	\$5,760.00	\$5,760.00		Mid-South Engineers	11/1/2018

**Derivation of Cost
Long Branch Project**

Central Office Equipment	\$21,030.00	\$16,664.21	\$4,365.79	Mid-South Engineers	11/1/2018
Calix E7-2 Shelf w/Common 1	\$650.00	\$650.00		Mid-South Engineers	11/1/2018
Calix 8-Port GPON Card 1	\$9,100.00	\$9,100.00		Mid-South Engineers	11/1/2018
Calix GPON B+ Optics (1490/1310nm Single Fiber) 3 @ \$650	\$1,950.00	\$1,950.00		Mid-South Engineers	11/1/2018
Clearfield Rack w/576 PON Insert Kit 1	\$1,800.00	\$1,800.00		Mid-South Engineers	11/1/2018
Clearfield 288 Fiber Bulkhead w/75' Ribbon Tail 1	\$4,200.00	\$0.00	\$4,200.00	Mid-South Engineers	11/1/2018
Clearfield 1x32 Splitter Module 3 @ \$1,050	\$3,150.00	\$3,150.00		Mid-South Engineers	11/1/2018
8-Fiber Distribution Patch Cord 1	\$180.00	\$14.21	\$165.79	Mid-South Engineers	11/1/2018
Engineering	\$30,221.76	\$0.00	\$30,221.76	Mid-South Engineers	11/1/2018
ONT Equipment 42 Residences	\$16,800.00	\$0.00	\$16,800.00	Mid-South Engineers	11/1/2018
Calix GigaCenter ONT w/Power Cable & UPS 42 @ \$350	\$14,700.00			Mid-South Engineers	11/1/2018
30' Flexdrop Jumper (from NID to ONT) 42 @ \$50	\$2,100.00			Mid-South Engineers	11/1/2018
Total Project	\$256,937.76	\$205,550.21	\$51,387.55		

BIT COMMUNICATIONS
Long Branch Fiber to the Home Project
PROJECT TEAM
Attachment 2

BIT

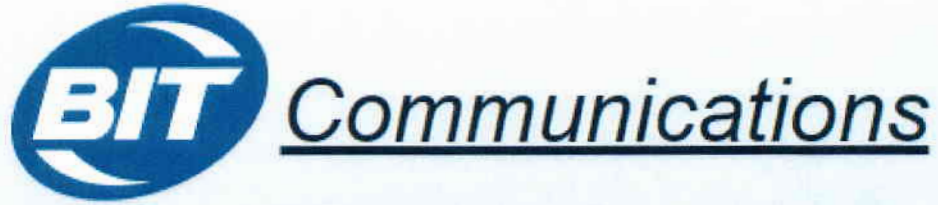
NAME	TITLE	ROLE/RESPONSIBILITIES
Michele Taylor	General Manager	Responsible for all decisions that are proposed for the Long Branch Fiber Project. This includes interaction with the BIT Board of Directors on any issues that require their attention/approval. She is also responsible for approval of all Contracts associated with the project as well as all invoicing required for both the Central Office equipment as well as the Outside Plant Construction costs.
Glenn Isacs	Wireless Network Manager	He is responsible for the coordination of all deliverables on the Long Branch Fiber Project with Mid-South Consulting Engineers, Inc. This includes the design, Outside Plant construction, review of Contracts and is the primary point of contact for the project.
Eugene Hostetter	Outside Plant/Central Office Manager	He is responsible for the coordination of the Central Office Equipment for the Long Branch Fiber Project. His responsibilities include coordination with Mid-South Consulting Engineers, Inc., in obtaining Equipment quotes from the Equipment vendor, ordering the Equipment and the installation of the Central Office equipment for the project.
Dina Blanton	Marketing/Public Relations Coordinator	She is responsible for the coordination of all marketing campaigns, advertising materials and making sure the project residents are informed, educated and updated on the project and the benefits of fiber.

MID-SOUTH CONSULTING ENGINEERS, INC.

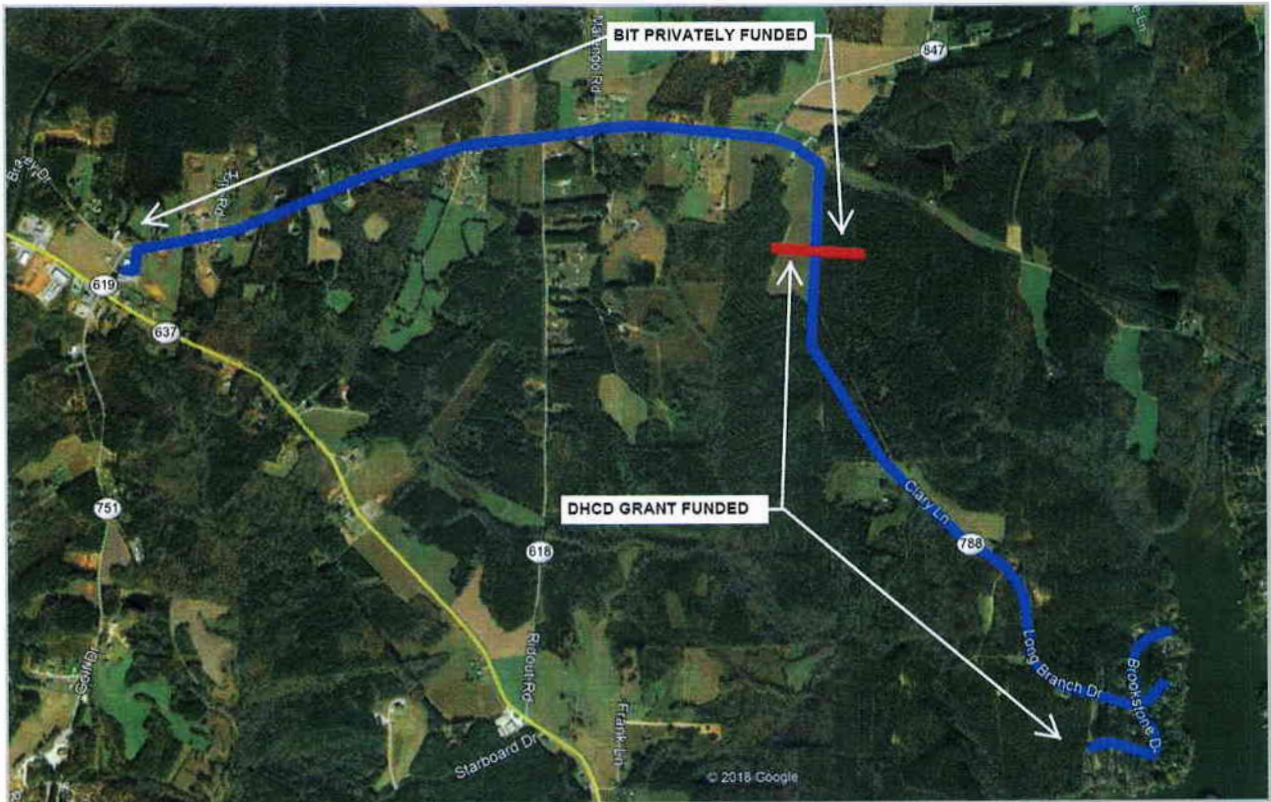
Howard Tipton	Vice President-Engineering	He is responsible for the coordination of the FTTH design as well as the budgetary pricing for the project. He is also responsible for the preparation of the Request for Proposal (RFP) for approval by BIT to engage Mid-South Consulting Engineers, Inc. He will also interact with all Mid-South team members, as required, during the project implementation design and be involved in the project construction.
Russ Feight	CAD Supervisor	He is responsible for the CAD group to produce the field staking sheets. Also, once the field staking is completed, he will coordinate the final completion of all CAD-generated drawings for the project.
Larry Hartman	Project Manager-Outside Plant	He is responsible for all phases of the Outside Plant portion of the Long Branch Project. This includes review of the final staking sheets, coordination of the Contract preparation and coordination with the Inspector assigned during the Outside Plant construction of the project. In addition, he will review and forward to BIT the weekly Progress Reports of construction. He will review and submit Contractor's invoices to BIT for approval. He will inform the Mid-South Vice President-Engineering of any items that may require his input/attention.
Luiguy Massanga	Resident Engineer-Outside Plant	He is responsible for the actual field staking of all units required for the Outside Plant fiber construction.
Robert Schlabach	Project Manager-Central Office	He is responsible for any coordination with BIT on the quotes from vendors for the Central Office equipment for the project. He will also assist in ordering the equipment as required. He is also responsible for the budgetary pricing for the Central Office equipment for the plan design.
Mark Williams	Outside Plant Construction Inspector	He is responsible for on-site inspection of the Outside Plant construction phase of the project. He will monitor the construction quality as well as quantity of construction. He will prepare a weekly Progress Report and submit it to the Mid-South Project Manager for review and submittal to BIT. He will interface with the Contractor and resolve any issues that may arise during the construction of the project.

Southside Planning District Commission

Deborah Gosney	Grant Administrator	She is responsible for preparing the draw remittances and submitting the required reporting.
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Virginia Telecommunications Initiative
Virginia Department of Housing and Community Development
Mecklenburg County & BIT Communications
Long Branch FTTH



42 Residences Passed in DHCD / VATI Funded Area

60 Residences Passed in BIT Funded Area

Long Branch FTTH DHCD Grant Application					
OSP Proposal (DHCD / VATI Funded) Distribution Mainline + 42 Residences					
UNIT DESCRIPTION	UNIT TOTALS	LABOR	MATERIAL	L + M	EXTENDED PRICE
BDO-205	26	\$ 90.00	\$ 320.00	\$ 410.00	\$ 10,660.00
BFO36R	1800	\$ 1.85	\$ 0.65	\$ 2.50	\$ 4,500.00
BFO72R	10300	\$ 1.85	\$ 0.92	\$ 2.77	\$ 28,531.00
BFO144R	3800	\$ 1.85	\$ 1.50	\$ 3.35	\$ 12,730.00
BFO288R	6200	\$ 1.85	\$ 2.36	\$ 4.21	\$ 26,102.00
BHF(30x52x43)RD	4	\$ 300.00	\$ 1,200.00	\$ 1,500.00	\$ 6,000.00
BM2	30	\$ 20.00	\$ 20.00	\$ 40.00	\$ 1,200.00
BM53F	20	\$ 25.00	\$ 40.00	\$ 65.00	\$ 1,300.00
BM60 DROP	350	\$ 6.00	\$ 0.50	\$ 6.50	\$ 2,275.00
BM60(1-1.25")DP	500	\$ 12.50	\$ 0.60	\$ 13.10	\$ 6,550.00
BM60(1-2")DP	1300	\$ 12.50	\$ 0.90	\$ 13.40	\$ 17,420.00
BM71	300	\$ 9.00	\$ -	\$ 9.00	\$ 2,700.00
BM83	42	\$ 25.00	\$ 9.00	\$ 34.00	\$ 1,428.00
BM-ENTRANCE	1	\$ 1,050.00	\$ 575.00	\$ 1,625.00	\$ 1,625.00
FTH - PRECON	42	\$ 80.00	\$ 40.00	\$ 120.00	\$ 5,040.00
HBFO CO ENT	1	\$ 250.00	\$ 1,600.00	\$ 1,850.00	\$ 1,850.00
HBFO FOSC 450D	2	\$ 130.00	\$ 490.00	\$ 620.00	\$ 1,240.00
HO-1	360	\$ 28.00	\$ 3.00	\$ 31.00	\$ 11,160.00
HO-12R	42	\$ 225.00	\$ 30.00	\$ 255.00	\$ 10,710.00
SEBO 1P - 300'	3	\$ 255.00	\$ 120.00	\$ 375.00	\$ 1,125.00
SEBO 1P - 500'	21	\$ 425.00	\$ 175.00	\$ 600.00	\$ 12,600.00
SEBO 1P - 750'	16	\$ 640.00	\$ 240.00	\$ 880.00	\$ 14,080.00
SEBO 1P - 1000'	2	\$ 850.00	\$ 300.00	\$ 1,150.00	\$ 2,300.00
UD(1x2-4")	400	\$ 9.50	\$ 4.90	\$ 14.40	\$ 5,760.00
Subtotal					\$ 188,886.00
Engineering at 16%					\$ 30,221.76
Total					\$ 219,107.76

Central Office Equipment (DHCD Funded):

	Quantity	Unit Cost	Extended Cost
Calix E7-2 Shelf w/Common (Assumes 10G Ring is Existing)	1	\$ 650	\$ 650
Calix 8-Port GPON Card	1	\$ 9,100	\$ 9,100
Calix GPON B+ Optics (1490/1310nm Single Fiber)	3	\$ 650	\$ 1,950
Clearfield Rack with 576 PON Insert Kit	1	\$ 1,800	\$ 1,800
Clearfield 288 Fiber Bulkhead with 75 Foot Ribbon Tail	1	\$ 4,200	\$ 4,200
Clearfield 1x32 Splitter Module	3	\$ 1,050	\$ 3,150
8-Fiber Distribution Patch Cord (From Clearfield)	1	\$ 180	\$ 180

Electronic Equipment Total \$ 21,030

ONT Equipment (42) Residences (DHCD Funded):

	Quantity	Unit Cost	Extended Cost
Calix 844G-1 GigaCenter ONT with Power Cable & UPS	42	\$ 350	\$ 14,700
30' Flexdrop Jumper (From NID to GigaCenter) - (From Clearfield)	42	\$ 50	\$ 2,100

ONT Equipment Total (DHCD) \$ 16,800

Total Electronic & ONT Equipment DHCD Funded \$ 37,830

Total Cost of Project \$ 256,938

Mecklenburg County & BIT Communications

Long Branch FTTH



42 Residences Passed in DHCD / VATI Funded Area

60 Residences Passed in BIT Funded Area

Attachment 5 – Map of existing broadband providers

Source: <https://www.fcc.gov/reports-research/maps/fixed-broadband-deployment-data/#lat=36.591075&lon=-78.10136&zoom=15>

Address ▾ Long Branch Dr, Bracey, Virginia 23919, United States



Fixed **Providers** Demographics

Census Block

FIPS Code: 511179301022066
Designation: Rural

Providers

Name ^	Tech ⇅	Down ⇅	Up ⇅
Buggs Island Telephone Cooperative	ADSL	10	1
HughesNet	Satellite	15	2
Skycasters	Satellite	2	1.3
ViaSat Inc	Satellite	12	3

Map Layers

Areas without population are shown without color.

- Fixed broadband 25/3 (Mbps)
- No fixed broadband 25/3 (Mbps)
- Tribal land
- Urban area

Board of Supervisors, October 9, 2018

A meeting of the Board of Supervisors was held in and for the County of Mecklenburg on October 9, 2018, at 9:30 a.m. in the Board of Supervisors meeting room of the Goode Bank Building.

MEMBERS PRESENT: Glenn Barbour, Chairman; Gregg Gordon, Vice-Chairman; David Brankley; Andy Hargrove; Claudia Lundy; Jim Jennings; Glanzy Spain, Jr; Dan Tanner; Sterling Wilkinson

The Chairman called the meeting to order.

Upon a motion of Mr. Spain, the Board voted unanimously to approve the minutes of September 10, 2018 and September 17, 2018 Board Meetings. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

Chairman Barbour advised that there will be an addition to the agenda; Item E-1 will be the Education Committee Report.

Upon a motion of Mr. Tanner, the Board voted unanimously to approve the agenda as amended. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

A public hearing was held on the application by Sylvia G. Felts (Roy Felts III) for a special exception permit to allow a second home on the same tract of land. This property, identified as County Tax Number 075000-((09))-001, zoned Agriculture, is located on the west side of Hwy 664 (Union Level Road), approximately 1/10 mile south of its intersection with Highway 665 (Rail Road), Buckhorn District, Election District 6, County of Mecklenburg.

There was no public input.

The public hearing was closed.

Upon a motion of Mr. Wilkinson, the Board voted unanimously to approve the application by Sylvia G. Felts (Roy Felts III) for a special exception permit to allow a second home on the same tract of land. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

A public hearing was held on the application by Joan Erwin Estate (Robert C. Mickler) for a special exception permit to allow for a family retreat. This property, identified as County Tax Number 025000-((A))-042, zoned Agriculture, is located on the south side of Highway 660 (Old Cox Road), approximately one (1) mile east of its intersection with Highway 662 (Wightman Road), Buckhorn District, Election District 7, County of Mecklenburg, Reference Deed Book B&P-240-455 and Will Book WF-5-131.

There was no public input.

The public hearing was closed.

Upon a motion of Mr. Brankley, the Board voted 8-1 to approve the application by Joan Erwin, Estate (Robert C. Mickler) for a special exception permit to allow for a family retreat. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, and Wilkinson voted 'aye' and Tanner voted 'naye'.

Mrs. Michelle Taylor addressed the Board with good news. BIT has connected their first fiber customer as of last night as part of the Virginia Telecommunication Grant they were awarded last year from the Department of Housing and Community Development. Mrs. Taylor reported to the Board that the main line is complete. Mrs. Taylor asked the Board on behalf of BIT, to serve as the applicant again on the grant to DHCD. This grant will serve the Long Branch Shores Subdivision and includes 3.94 miles of fiber passing 102 households.

Mrs. Melissa Hartman addressed the Board of behalf of Long Branch Shores Subdivision stating that bringing broadband communications to these rural communities is so important for educational purposes, home based business opportunities, safety and just to simply utilize modern technology in these areas as well as safety issues involving 911 services.

Upon a motion of Mr. Tanner, the Board voted unanimously to serve as the applicant with Buggs Island Telephone for the Virginia Telecommunications Grant through the Department of Housing and Community Development for the Long Branch Shores Fiber Project for a total cost of \$256,938 with Buggs Island Telephone contributing approximately \$51,388 as the project match. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

Ms. Tina Morgan addressed the Board with update on Tourism. Ms. Morgan was pleased to announce that Tourism all over the State of Virginia is on the rise. Ms. Morgan advised the Board that Mecklenburg County saw visitor spending up 5.2% at 137.2 million, visitor spending in Halifax County was also up 3.2%, with 48.6 million and Brunswick County is up 2.9% with 38.9 million spent in 2017. Ms. Morgan said that Mecklenburg on average sees about 90 million more in visitor spending than our neighbors to the west and east.

The Emergency Services Committee met on Tuesday, October 9, 2018 at 8:30 a.m. in the Board of Supervisors Conference Room.

MEMBERS PRESENT: Andy Hargrove; Glanzy Spain; Gregg Gordon; Dan Tanner

ALSO PRESENT: Glenn Barbour, David Brankley, Claudia Lundy, Sterling Wilkinson, Wayne Carter, County Administrator; Jon Taylor, Emergency Services Coordinator; Ben Duncan, 911 Director

The Chairman called the meeting to order.

Mr. Duncan reviewed the CAD/RMS Project. Staff and the radio committee along with the Police Chiefs have reviewed 4 proposals and are recommending the CAD/RMS System by Tyler Technologies. Our current provider is no longer supporting the current system. Each town will be

responsible for their cost with Mecklenburg County costs being \$684,663.00. The system is being purchased through a Cooperative Purchasing Agreement for a cost of \$895,625.00.

The project will be billed over a 2-year period budget to help with budgeting for some of the Towns.

Upon a motion of Mr. Tanner, the Committee voted unanimously to recommend purchase of the CAD System by Tyler Technologies for a cost of \$895,625.00 and the MOU subject to review by the County Attorney.

Mr. Taylor gave an update on the radio system. It is being drive tested this week and is expected to go live on November 5, 2018. Currently, Mr. Taylor and Mr. Duncan are testing for dead spots in the County. Motorola will be here to train the trainer on October 23rd and 25th.

There being no further business, the meeting was adjourned.

Upon a motion of Mr. Hargrove, the Board voted unanimously to purchase of the CAD/RMS System by Tyler Technologies for a cost of \$895,625.00 and approve the MOU subject to review by the County Attorney. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

The Education Committee met on October 3, 2018 at 5PM in the Board of Supervisors Meeting Room.

Members Present: Claudia Lundy, Chairperson, Glanz Spain, David Brankley, Lindell Palmer, Paul Nichols, Wayne Carter.

The meeting was called to order by the Chair.

All present stood and pledged to the flag.

Upon motion of Mr. Brankley, seconded by Mr. Spain, the agenda was approved as submitted.

Mr. Bill Upton, lead Architect on the school project was present to discuss the roof on the new Middle/ High School. He showed several buildings with full metal roofs and ones with a combined roof system comprised of a partial metal roof along the exteriors of the building and a sloped roof over the interior areas, which is what is being proposed for the new school complex. The sloped roof has ¼ inch fall per foot. He stated that he has consulted with roofing experts and they feel that the combined roofing system is the best way to go for this project. A full metal roof will cost approximately \$3,000,000.00 more than the combined roof system and will be approximately 40 feet in height. Mr. Upton has budgeted for the combined roof system in his presentations. He is proposing to use an 80 mil single ply which comes with a 30 warranty as well as a puncture warranty. Recoating can add an additional 25 years.

Mr. Nichols was questioned on his preference and he is in favor of the combined roof system as he thinks it is the best system and Mr. Dalton, Head of Maintenance, is in favor of the combined roof system.

Mr. Brankley was concerned about how the sloped roof is performing in areas with our type of weather. Staff was instructed to contact Warren County to learn from their experience with a similar roof on their Middle School.

The Committee decided to bring this matter to the full Board for further discussion.

Mr. Nichols state that he is in talks with Microsoft regarding the proposed career center concept and what environmental programs they may be able to help with for the school, including solar power on the roof.

There being no further business, the meeting was adjourned.

Ben Upton and staff reviewed the combined roof system versus the all metal roof. The design team feels that the County would be better served with the combined roof. Mr. Carter stated that he had spoken with the Warren County Administrator and that they have been pleased with the combined roof they have on their new Middle School.

After much discussion by the Board members, no action was taken on this matter as this is a School design matter.

Under the County Administrator's report:

Mr. Carter advised that building and zoning permits are holding steady and advised that Animal Control has picked up 431 dogs so far this year with an adoption/return rate of 57%.

Mr. Spain asked the Sheriff a question about where the speed over 80 tickets are occurring.

The Sheriff stated that those incidents are occurring primarily on Interstate 85.

Mr. Carter advised the Board that in their packets for review was the current unemployment rates for our region and the Planning Commission's 2232 review for Apex Tower, LLC. If the Board has any concerns or wants to review the Planning Commission's approval of the 2232 review, they should voice them at this meeting.

Under the Chairman's report:

Mr. Barbour advised that the Board needs to designate a voter on behalf of the County for the VACO Annual Meeting in November at the Conference.

The Board discussed and designated Mr. Carter to serve as the voting member.

Mr. Barbour advised the Board that there is an update on the Meherrin River Regional Jail and minutes from the Roanoke River Service Authority's August 28th meeting in the packet for informational purposes.

Upon a motion of Mr. Spain, the Board voted unanimously to approve the consent calendar as it relates to the September bills. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

Chairman Barbour presented the Board with a statue of appreciation for support from CMH/VCU and read a letter of appreciation of support from Madeline's House.

Billy Smith, Resident Engineer updated the Board on the road closures and damages from Hurricane Florence.

Under Public Comment:

Mr. Paul Nichols thanked the Board for supporting the BIT Grant to provide broadband connectivity to another area of the County. He advised that this type of connection is crucial for education. Mr. Nichols also thanked VDOT for clearing the roadways so quickly after the hurricane. Mr. Nichols stated that he was talking with Microsoft about their interest in solar panels for the new school.

Mr. Herman Lundy addressed the Board with concerns about the proposed roof system for the new school, he does not like the combined system. Mr. Lundy also stated that he thinks the County Animal Control Officers should pick up stray cats.

Mr. Jarrious Lassiter addressed the Board stating that he would prefer the new school building to have a metal roof and is also concerned about that the length of time it is taking to plan for the new school it is going to increase the price.

Under Board Member Matters:

Mr. Brankley advised that he is pleased with the good job Tina Morgan is doing in Tourism and Mr. Brankley assured Mr. Lassiter that the Board is moving forward with the new school project as quickly as possible.

Mrs. Lundy stated that she is also pleased with the tourism update and Ms. Morgan. Ms. Lundy also stated that she thinks the Broadband Connectivity Project is a great grant for the County to pursue.

Mr. Wilkinson stated that the fiber-optic development will be great for our area. Mr. Wilkinson thanked Tina Morgan for her tourism efforts, he also thanked Paul Nichols and congratulated him on the opportunity to present at a conference in Denver with Microsoft Corp. He thanked VDOT for their work during Hurricane Florence.

Mr. Tanner thanked Tina Morgan for her Tourism efforts and gave the Board an update on the Mecklenburg/Brunswick Regional Airport Renovations.

Mr. Spain stated that he hopes the new school can open in 2021 and encouraged everyone to attend Boydton Day on October 27th.

Mr. Gordon stated that he was pleased to see the tourism numbers increase in Mecklenburg County and stated that our assets are very beneficial for tourism.

Mr. Barbour stated that he was anxious to see activity on the grounds of the new school facility project.

Upon a motion of Mr. Hargrove, the Board voted unanimously to convene in Closed Session pursuant to Virginia Code Section 2.2-3711(A, 5). Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

Upon a motion of Mr. Hargrove, the Board voted to go back into Open Session. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

Upon a motion of Mrs. Lundy, the Board voted to adopt the following Certification Resolution. Supervisors Barbour, Brankley, Gordon, Hargrove, Jennings, Lundy, Spain, Tanner and Wilkinson voted 'aye'.

CERTIFICATION OF CLOSED SESSION

WHEREAS, the Mecklenburg County Board of Supervisors convened a Closed Session on this date pursuant to an affirmative recorded vote and in accordance with the provision of the Virginia Freedom of Information Act; and

WHEREAS, Section 2.2-3712 of the Code of Virginia requires a certification by the Mecklenburg County Board of Supervisors that such Closed Session was conducted in conformity with Virginia law;

NOW, THEREFORE, BE IT RESOLVED that the Mecklenburg County Board of Supervisors hereby certifies that, to the best of each member's knowledge, (i) only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the Closed Session to which this certification resolution applies, and (ii) only such public business matters as were identified in the motion convening the Closed Session were heard, discussed or considered by the Mecklenburg County Board of Supervisors.

VOTE: AYE: NAYE:
 Barbour
 Gordon
 Brankley

Board of Supervisors, October 9, 2018

Hargrove
Lundy
Jennings
Spain
Tanner
Wilkinson

There being no further business, the meeting was adjourned until November 5, 2018 at 9:30 a.m.

[Skip to main content](#) [Skip to footer and contact information](#)



(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:
0002031698
Data as of:
Dec 31, 2017
Operations:
ILEC
Submission Status:
Original - Submitted
Last Updated:
Feb 16, 2018 14:06:39

Filer Identification

Section	Question	Response
Filer Information	Provider Name	Buggs Island Telephone Cooperative
	Holding Company Name	Buggs Island Telephone Cooperative
	SAC ID	190219
Data Contact Information	499 ID	801312
	Data Contact Name	Carolyn Piercy
	Data Contact Phone Number	(434) 636-1250
Emergency Operations Contact Information	Data Contact E-mail	cpiercy@bitbroadband.com
	Emergency Operations Name	Buzzy Hostetter
	Emergency Operations Phone Number	(434) 636-2274
Certifying Official Contact Information	Emergency Operations E-mail	bhostetter@bitbroadband.com
	Certifying Official Name	Carolyn Piercy
	Certifying Official Phone Number	(434) 636-1250
	Certifying Official E-mail	cpiercy@bitbroadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	BIT Dec 2017 Shape files.csv	Feb 16, 2018 14:04:53	7999
Fixed Broadband Subscription	Interactive data entry		76
Fixed Voice Subscription	Interactive data entry		9

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
North Carolina	Buggs Island Telephone	Asymmetric xDSL	21
		Terrestrial Fixed Wireless	2
	Buggs Island Telephone Cooperative	Asymmetric xDSL	4
	Buggs Islaand Telephone	Terrestrial Fixed Wireless	882
Virginia	Buggs Island Telephone	Asymmetric xDSL	938
		Terrestrial Fixed Wireless	5522
	Buggs Island Telephone Cooperative	Asymmetric xDSL	111
	Buggs Island Telepyhone	Terrestrial Fixed Wireless	519
	Total		7999

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
North Carolina	Asymmetric xDSL	8	58	1	59
	Asymmetric xDSL	45	1854	74	1928
Virginia	Optical Carrier/Fiber to the End User	3	0	4	4
	Terrestrial Fixed Wireless	20	399	17	416
	Total	76	2311	96	2407

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.256	0.128	70	0	70
3.000	0.384	31	1	32
3.000	0.512	994	33	1027
4.000	0.512	31	4	35
5.000	0.512	330	15	345
6.000	0.512	5	2	7
8.000	0.512	17	3	20
10.000	1.000	432	17	449
10.000	5.000	399	17	416
15.000	1.000	1	0	1
20.000	3.000	0	1	1
25.000	1.000	1	2	3
50.000	50.000	0	1	1
	Total	2311	96	2407

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer		Business / Govt	Total
			Consumer	Business / Govt		
Asymmetric xDSL	0.256	0.128	70	0		70
	3.000	0.384	31	1		32
	3.000	0.512	994	33		1027
	4.000	0.512	31	4		35
	5.000	0.512	330	15		345
	6.000	0.512	5	2		7
	8.000	0.512	17	3		20
	10.000	1.000	432	15		447
	15.000	1.000	1	0		1
	25.000	1.000	1	2		3
Optical Carrier/Fiber to the End User	10.000	1.000	0	2		2
	20.000	3.000	0	1		1
	50.000	50.000	0	1		1
Terrestrial Fixed Wireless	10.000	5.000	399	17		416
Total			2311	96		2407

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
North Carolina	75	73	0	0
Virginia	2941	2695	0	0
Total	3016	2768	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale UNE-L	
North Carolina	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer & No PIC	Consumer & PIC	Bus-Govt & No PIC	Bus-Govt & PIC
North Carolina	75	58	17	16	57	1	1



(RETAIN FOR YOUR RECORDS)
Form 477 Filing Summary

FRN: 0002031698 Data as of: Jun 30, 2018 Operations: ILEC Submission Status: Revised - Submitted Last Updated: Nov 12, 2018 09:27:35

Filer Identification

Section	Question	Response
Filer Information	Provider Name	Buggs Island Telephone Cooperative
	Holding Company Name	Buggs Island Telephone Cooperative
	SAC ID	190219
	499 ID	801312
Data Contact Information	Data Contact Name	Carolyn Piercy
	Data Contact Phone Number	(434) 636-2274 ext: 227
	Data Contact E-mail	cpiercy@bitbroadband.com
Emergency Operations Contact Information	Emergency Operations Name	Buzzy Hostetter
	Emergency Operations Phone Number	(434) 917-4311
	Emergency Operations E-mail	bhostetterl@bitbroadband.com
Certifying Official Contact Information	Certifying Official Name	Carolyn Piercy
	Certifying Official Phone Number	(434) 636-2274 ext: 227
	Certifying Official E-mail	cpiercy@bitbroadband.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	BIT June 2018 Shape File.csv	Nov 12, 2018 08:49:42	8000
Fixed Broadband Subscription	FCC477FixedBroadbandSubscriptionReport~06-30-2018~0002031698.csv	Nov 12, 2018 09:24:26	74
Fixed Voice Subscription	FCC477FixedVoiceSubscriptionReport~06-30-2018~0002031698.csv	Nov 12, 2018 08:49:42	10

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
North Carolina	Buggs Island Telephone	Asymmetric xDSL	21
		Terrestrial Fixed Wireless	2
	Buggs Island Telephone Cooperative	Asymmetric xDSL	4

State	DBA Name	Technology	Blocks
Virginia	Buggs Islaand Telephone	Terrestrial Fixed Wireless	882
	Buggs Island Telephone	Asymmetric xDSL	938
		Terrestrial Fixed Wireless	5522
	Buggs Island Telephone Cooperative	Asymmetric xDSL	111
		Optical Carrier/Fiber to the End User	1
	Buggs Island Telepyhone	Terrestrial Fixed Wireless	519
Total			8000

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End-user Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
North Carolina	Asymmetric xDSL	8	63	1	64
Virginia	Asymmetric xDSL	46	1891	90	1981
	Terrestrial Fixed Wireless	20	407	17	424
Total		74	2361	108	2469

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.256	0.125	62	3	65
3.000	0.384	1000	45	1045
4.000	0.512	26	6	32
5.000	0.512	358	17	375
6.000	0.512	5	3	8
8.000	0.512	21	3	24
10.000	1.000	479	12	491
10.000	5.000	407	17	424
15.000	1.000	1	0	1
25.000	3.000	2	2	4
Total		2361	108	2469

Fixed Broadband Subscriptions by Technology, Bandwidths and End-user Type

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Asymmetric xDSL	0.256	0.125	62	3	65
	3.000	0.384	1000	45	1045
	4.000	0.512	26	6	32
	5.000	0.512	358	17	375

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	6.000	0.512	5	3	8
	8.000	0.512	21	3	24
	10.000	1.000	479	12	491
	15.000	1.000	1	0	1
	25.000	3.000	2	2	4
Terrestrial Fixed Wireless	10.000	5.000	407	17	424
Total			2361	108	2469

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
North Carolina	78	76	0	0
Virginia	2912	2691	0	0
Total	2990	2767	0	0

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
North Carolina	0	0
Virginia	0	0
Total	0	0

VGE Lines Provided to End Users by State, Bundle and Product Type

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
North Carolina	78	64	14	17	59	1	1
Virginia	2912	1996	916	655	2036	0	221
Total	2990	2060	930	672	2095	1	222

VGE Lines Provided to End Users by State, Ownership and Last-mile Medium

State	Total	by Ownership				by Last-mile Medium		
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
North Carolina	78	78	0	0	0	0	0	78
Virginia	2912	2912	0	0	0	0	0	2912
Total	2990	2990	0	0	0	0	0	2990

Attachment #8



OUR FOCUS IS YOUR SUCCESS.

4300 Crossing Blvd. P.O. Box 2230
Prince George, VA 23875

Account Number: 30005518
Statement Date: 10/31/2018
Statement Period: 09/30/2018 - 10/31/2018
Items Enclosed: 0
Page: 1 of 1

Return Service Requested

00001525 MBM4129S110118081255 01 000000000 0007642 001

Checking Account Statement

Customer Service Information

-  **TeleLink Telephone Banking:** 804-469-5926
-  **Lost or Stolen Card:** 800-500-1044
-  **Email Inquiries:** Information@Touchstone.Bank
-  **Visit us Online:** www.Touchstone.Bank
-  **Written Inquiries:**
P.O. Box 875, Prince George, VA 23875
- Visit us on Facebook!**



BUGGS ISLAND TELEPHONE COOPERATIVE
PO BOX 129
BRACEY VA 23919

00001525 0001525 0001-0001

Relationship Summary

Account	Account Number	Balance
CHECKING	*****5518	\$1,808,580.21
M/M BUSINESS	Account Number: *****5518	

Balance Summary

09/30/2018	Balance Last Statement	\$1,807,659.05
	Total Credits This Period	+\$921.16
	Total Debits This Period	-\$0.00
10/31/2018	Closing Balance	\$1,808,580.21
	Interest Earned This Period	\$921.16
	Annual Percentage Yield	0.60%
	Interest Paid Year-To-Date	\$7,744.11

Transaction Detail

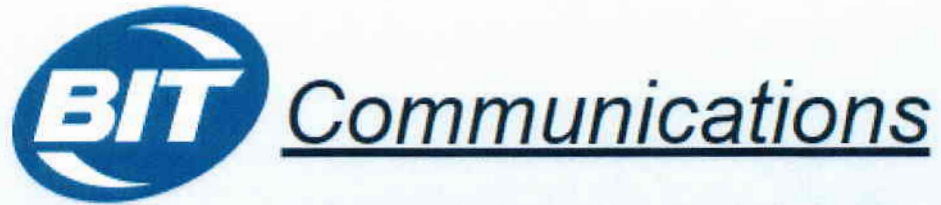
Date	Description	Debits	Credits	Balance
09/30/2018	Beginning Statement Balance			\$1,807,659.05
10/31/2018	INTEREST PAYMENT		\$921.16	\$1,808,580.21

Overdraft Information

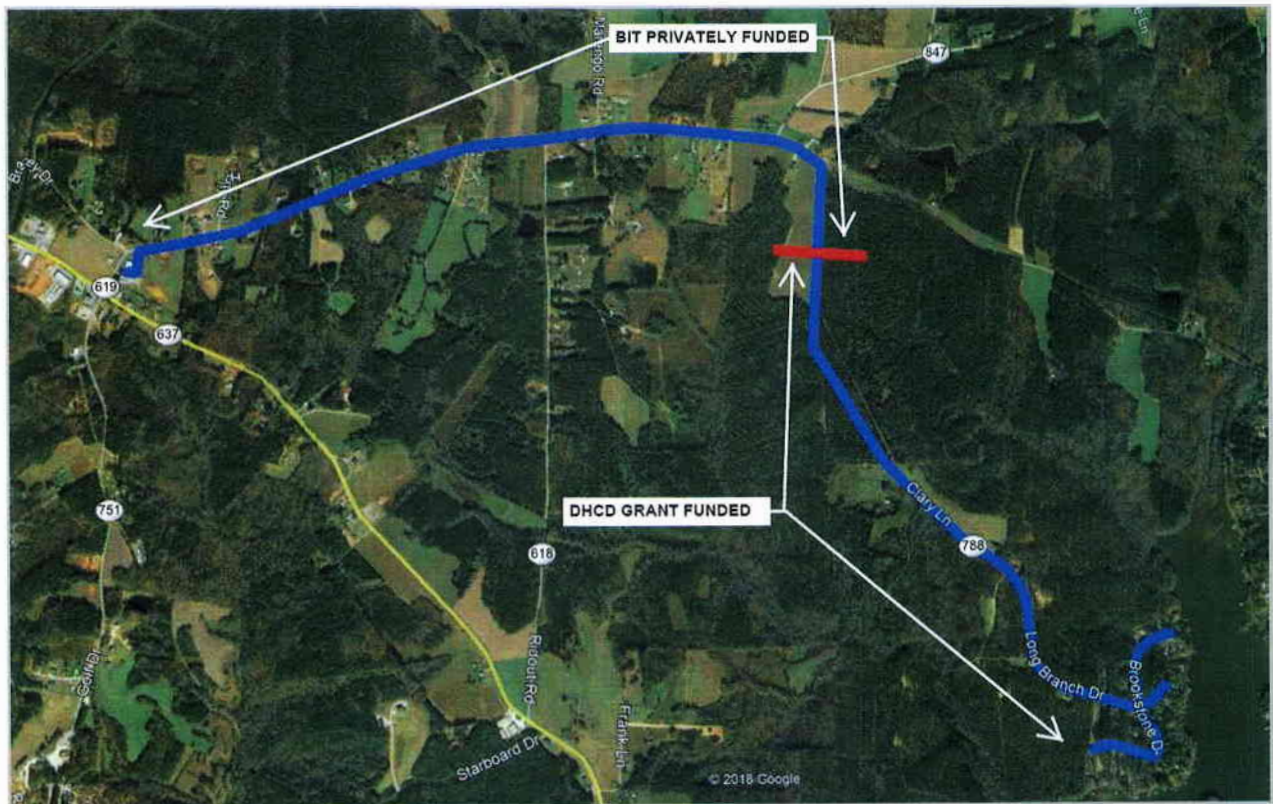
Fee Type	Total Fees This Period	Total Fees Year-To-Date	Total Fees Previous Year
Overdraft Fees	\$0.00	\$0.00	\$0.00
Returned Item Fees	\$0.00	\$0.00	\$0.00



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Virginia Telecommunications Initiative
Virginia Department of Housing and Community Development
Mecklenburg County & BIT Communications
Long Branch FTTH



42 Residences Passed in DHCD / VATI Funded Area

60 Residences Passed in BIT Funded Area

Long Branch FTTH DHCD Grant Application					
OSP Proposal (DHCD / VATI Funded) Distribution Mainline + 42 Residences					
UNIT DESCRIPTION	UNIT TOTALS	LABOR	MATERIAL	L + M	EXTENDED PRICE
BDO-205	26	\$ 90.00	\$ 320.00	\$ 410.00	\$ 10,660.00
BFO36R	1800	\$ 1.85	\$ 0.65	\$ 2.50	\$ 4,500.00
BFO72R	10300	\$ 1.85	\$ 0.92	\$ 2.77	\$ 28,531.00
BFO144R	3800	\$ 1.85	\$ 1.50	\$ 3.35	\$ 12,730.00
BFO288R	6200	\$ 1.85	\$ 2.36	\$ 4.21	\$ 26,102.00
BHF(30x52x43)RD	4	\$ 300.00	\$ 1,200.00	\$ 1,500.00	\$ 6,000.00
BM2	30	\$ 20.00	\$ 20.00	\$ 40.00	\$ 1,200.00
BM53F	20	\$ 25.00	\$ 40.00	\$ 65.00	\$ 1,300.00
BM60 DROP	350	\$ 6.00	\$ 0.50	\$ 6.50	\$ 2,275.00
BM60(1-1.25")DP	500	\$ 12.50	\$ 0.60	\$ 13.10	\$ 6,550.00
BM60(1-2")DP	1300	\$ 12.50	\$ 0.90	\$ 13.40	\$ 17,420.00
BM71	300	\$ 9.00	\$ -	\$ 9.00	\$ 2,700.00
BM83	42	\$ 25.00	\$ 9.00	\$ 34.00	\$ 1,428.00
BM-ENTRANCE	1	\$ 1,050.00	\$ 575.00	\$ 1,625.00	\$ 1,625.00
FTH - PRECON	42	\$ 80.00	\$ 40.00	\$ 120.00	\$ 5,040.00
HBFO CO ENT	1	\$ 250.00	\$ 1,600.00	\$ 1,850.00	\$ 1,850.00
HBFO FO SC 450D	2	\$ 130.00	\$ 490.00	\$ 620.00	\$ 1,240.00
HO-1	360	\$ 28.00	\$ 3.00	\$ 31.00	\$ 11,160.00
HO-12R	42	\$ 225.00	\$ 30.00	\$ 255.00	\$ 10,710.00
SEBO 1P - 300'	3	\$ 255.00	\$ 120.00	\$ 375.00	\$ 1,125.00
SEBO 1P - 500'	21	\$ 425.00	\$ 175.00	\$ 600.00	\$ 12,600.00
SEBO 1P - 750'	16	\$ 640.00	\$ 240.00	\$ 880.00	\$ 14,080.00
SEBO 1P - 1000'	2	\$ 850.00	\$ 300.00	\$ 1,150.00	\$ 2,300.00
UD(1x2-4")	400	\$ 9.50	\$ 4.90	\$ 14.40	\$ 5,760.00
Subtotal					\$ 188,886.00
Engineering at 16%					\$ 30,221.76
Total					\$ 219,107.76

Central Office Equipment (DHCD Funded):	Quantity	Unit Cost	Extended Cost
Calix E7-2 Shelf w/Common (Assumes 10G Ring is Existing)	1	\$ 650	\$ 650
Calix 8-Port GPON Card	1	\$ 9,100	\$ 9,100
Calix GPON B+ Optics (1490/1310nm Single Fiber)	3	\$ 650	\$ 1,950
Clearfield Rack with 576 PON Insert Kit	1	\$ 1,800	\$ 1,800
Clearfield 288 Fiber Bulkhead with 75 Foot Ribbon Tail	1	\$ 4,200	\$ 4,200
Clearfield 1x32 Splitter Module	3	\$ 1,050	\$ 3,150
8-Fiber Distribution Patch Cord (From Clearfield)	1	\$ 180	\$ 180
Electronic Equipment Total			\$ 21,030

ONT Equipment (42) Residences (DHCD Funded):	Quantity	Unit Cost	Extended Cost
Calix 844G-1 GigaCenter ONT with Power Cable & UPS	42	\$ 350	\$ 14,700
30' Flexdrop Jumper (From NID to GigaCenter) - (From Clearfield)	42	\$ 50	\$ 2,100
ONT Equipment Total (DHCD)			\$ 16,800

Total Electronic & ONT Equipment DHCD Funded \$ 37,830

Total Cost of Project \$ 256,938



4300 Crossing Blvd. P.O. Box 2230
Prince George, VA 23875

Return Service Requested

00001525 MBM4129S110118081255 01 000000000 0007642 001



BUGGS ISLAND TELEPHONE COOPERATIVE
PO BOX 129
BRACEY VA 23919

Account Number: 30005518
Statement Date: 10/31/2018
Statement Period: 09/30/2018 - 10/31/2018
Items Enclosed: 0
Page: 1 of 1

Checking Account Statement

Customer Service Information

- TeleLink Telephone Banking:** 804-469-5926
- Lost or Stolen Card:** 800-500-1044
- Email Inquiries:** Information@Touchstone.Bank
- Visit us Online:** www.Touchstone.Bank
- Written Inquiries:**
P.O. Box 875, Prince George, VA 23875
- Visit us on Facebook!**

Relationship Summary

Account Type	Account Number	Balance
CHECKING	*****5518	\$1,808,580.21

M/M BUSINESS Account Number: *****5518

Balance Summary

09/30/2018	Balance Last Statement	\$1,807,659.05
	Total Credits This Period	+\$921.16
	Total Debits This Period	-\$0.00
10/31/2018	Closing Balance	\$1,808,580.21
	Interest Earned This Period	\$921.16
	Annual Percentage Yield	0.60%
	Interest Paid Year-To-Date	\$7,744.11

Transaction Detail

Date	Description	Debits	Credits	Balance
09/30/2018	Beginning Statement Balance			\$1,807,659.05
10/31/2018	INTEREST PAYMENT		\$921.16	\$1,808,580.21

Overdraft Information

Fee Type	Total Fees This Period	Total Fees Year-To-Date	Total Fees Previous Year
Overdraft Fees	\$0.00	\$0.00	\$0.00
Returned Item Fees	\$0.00	\$0.00	\$0.00



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Attachment 11 - Part 1 of 2
Documentation that proposed area is unserved based on VATI criteria.

Source for graph below. https://www.intermode.on.net/residential/broadband/adsl/easy_broadband/performance/

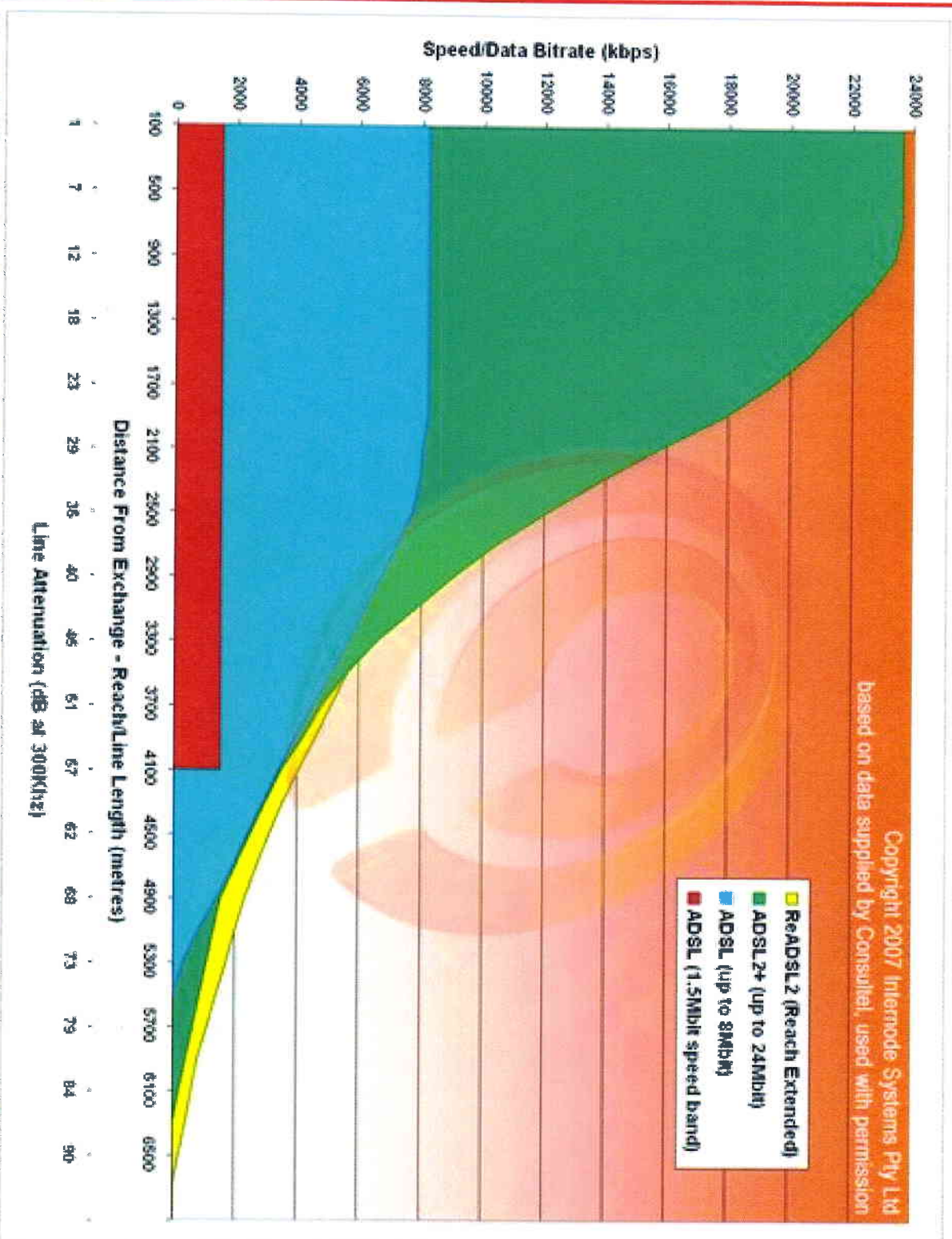
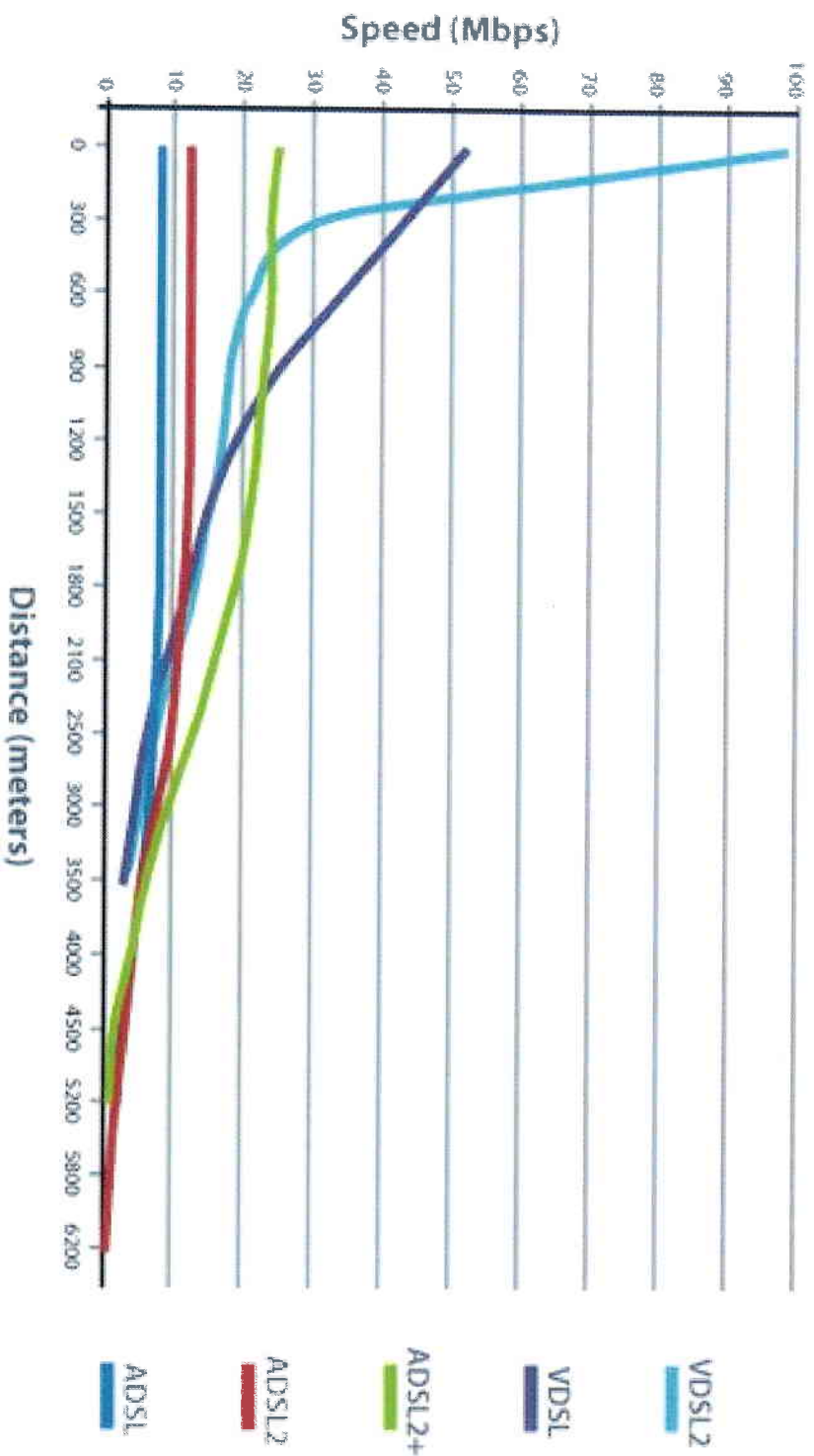


Figure 1: Graph showing the maximum speeds in relation to distance on ADSL1, ADSL2, and ADSL2+

Documentation that proposed area is unserved based on VATI criteria.

Source for graph below. <https://nbmnyths.wordpress.com/why-not-fttn/>

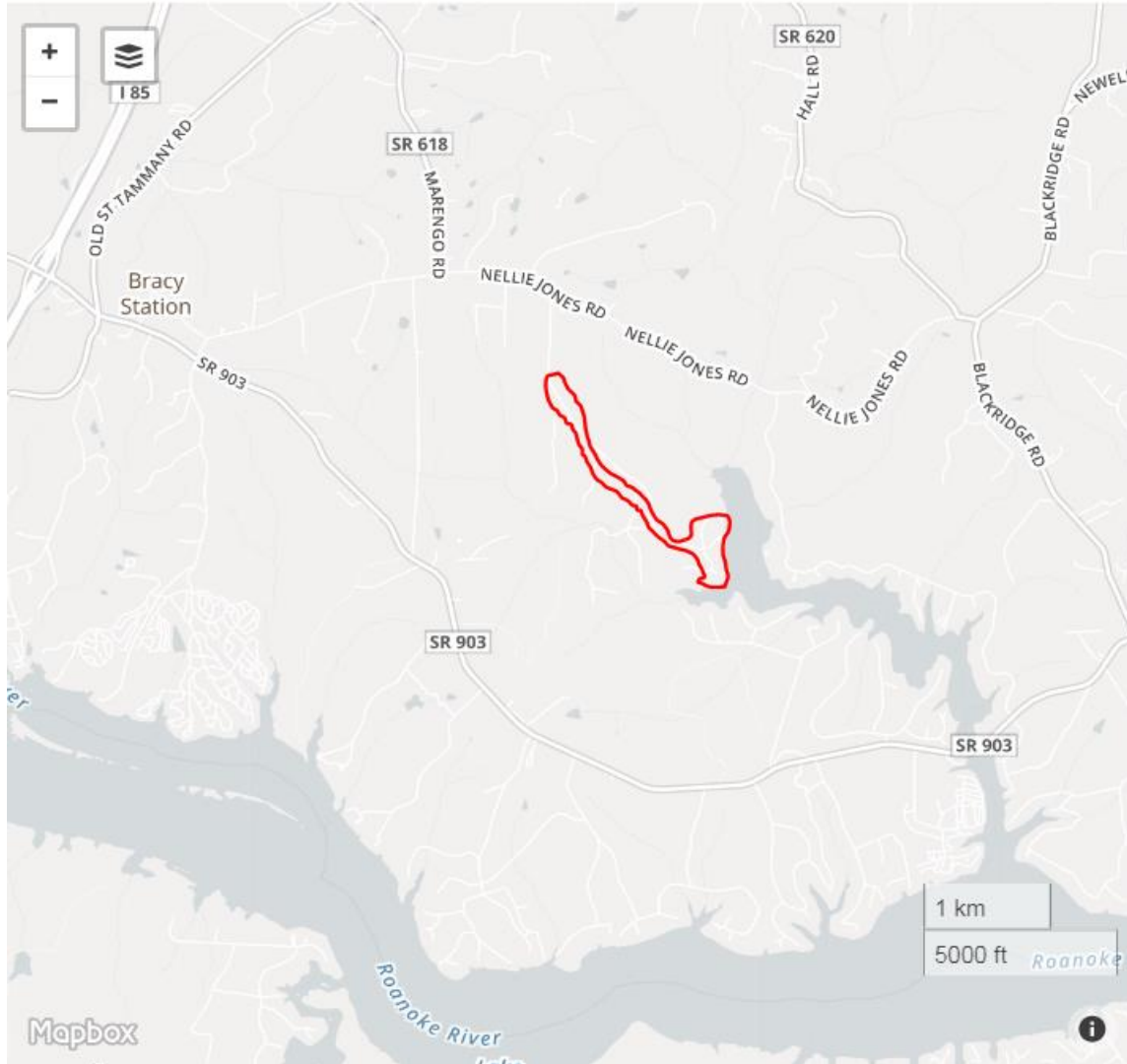
FTTC Speed Graph



Source: Ofcom

Connect America Phase II - Final Eligible Areas Map

<https://www.fcc.gov/maps/connect-america-phase-ii-final-eligible-areas-map/>



County Summary

Mecklenburg County, VA

Total Price Cap (PC) County Locations: 16,574

PC Carrier	State	Eligible Locations	Support Amount
CenturyLink	NC		
CenturyLink	VA	761	\$209,038
Verizon	VA	2,663	\$805,638
Total		3,424	\$1,014,676

Virginia State Summary

PC Carrier	Eligible Locations	Support Amount
CenturyLink	49,993	\$15,731,767
Fairpoint		
Communications	2,440	\$857,022
Verizon	85,518	\$29,144,142
Total	137,951	\$45,732,931

Map Legend

- Eligible
- Ineligible - Exceeds Threshold
- Ineligible - Below Benchmark
- Ineligible - Other
- Elected Frozen

VATI FUNDING SOURCES TABLE

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

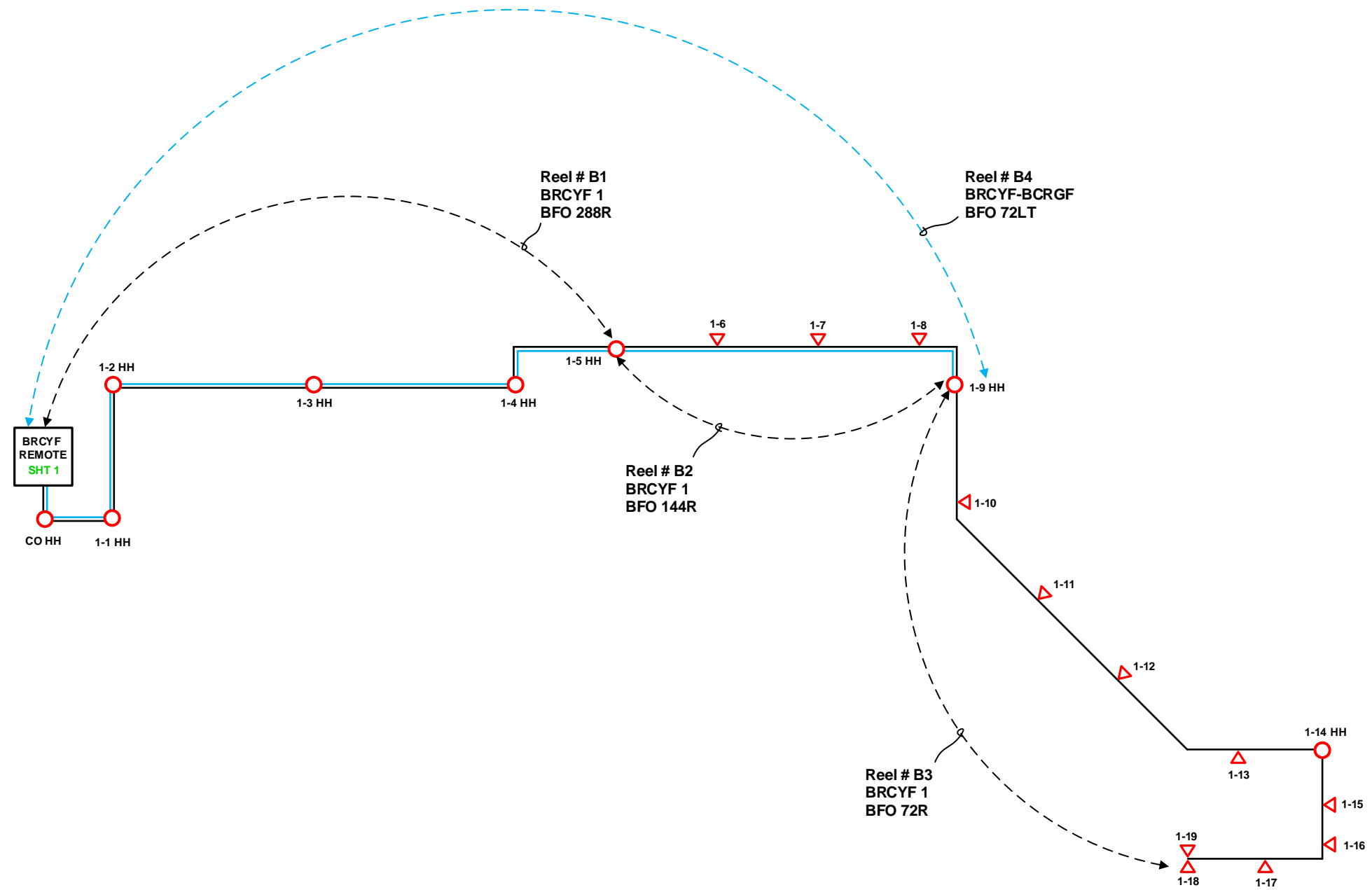
Source	Amount	%	Status
REQUESTED VATI	\$ 205,550.21	80%	Pending
MATCHING FUNDS	\$ 51,387.55	20%	SECURED
	\$		
	\$		
	\$		
	\$		
	\$		
TOTAL	\$ 256,937.76	100 %	

**BIT Communications, Inc
DHCD Mecklenburg County - Long Branch FTTH
Project Timeline**

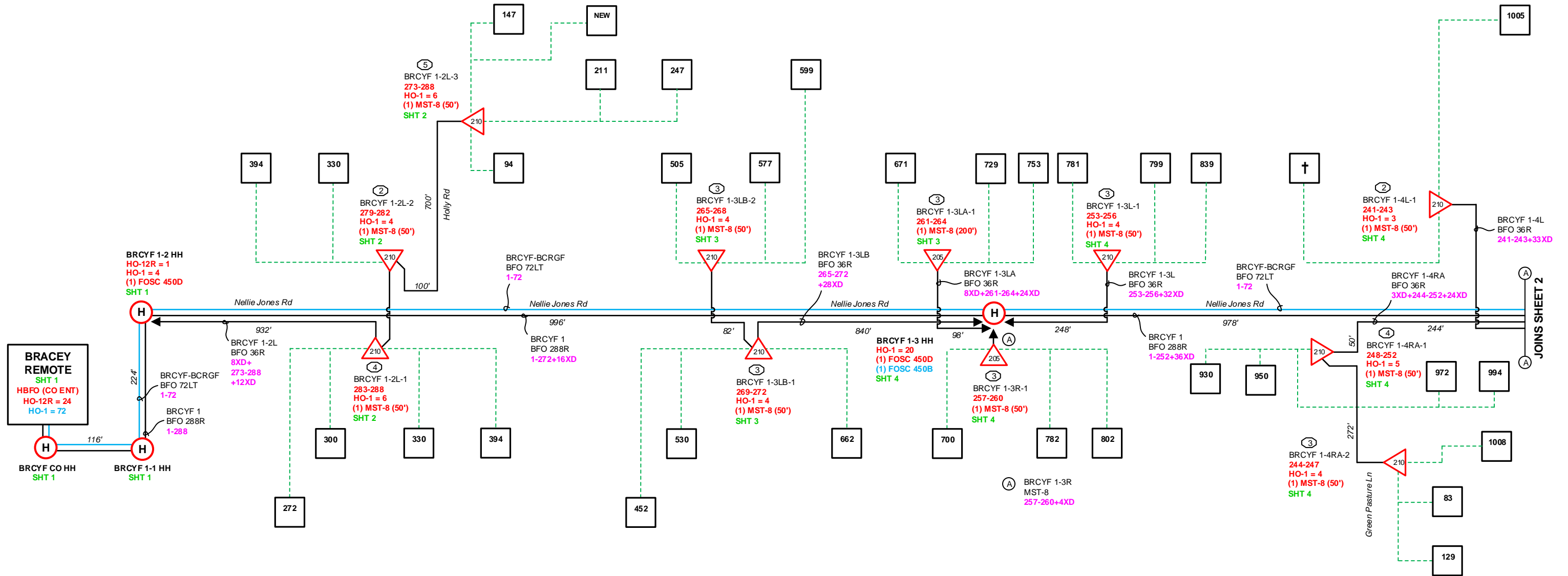
	2018												2019																																																	
	OCTOBER			NOVEMBER			DECEMBER			JANUARY			FEBRUARY			MARCH			April			May			June			July			August			September																												
	Sep 30 - Oct 6	Oct 7 - Oct 13	Oct 14 - Oct 20	Oct 21 - Oct 27	Oct 28 - Nov 3	Nov 4 - Nov 10	Nov 11 - Nov 17	Nov 18 - Nov 24	Nov 25 - Dec 1	Dec 2 - Dec 8	Dec 9 - Dec 15	Dec 16 - Dec 22	Dec 23 - Dec 29	Dec 30 - Jan 5	Jan 6 - Jan 12	Jan 13 - Jan 19	Jan 20 - Jan 26	Jan 27 - Feb 2	Feb 3 - Feb 9	Feb 10 - Feb 16	Feb 17 - Feb 23	Feb 24 - Mar 2	Mar 3 - Mar 9	Mar 10 - Mar 16	Mar 17 - Mar 23	Mar 24 - Mar 30	Mar 31 - Apr 6	Apr 7 - Apr 13	Apr 14 - Apr 20	Apr 21 - Apr 27	Apr 28 - May 4	May 5 - May 11	May 12 - May 18	May 19 - May 25	May 26 - Jun 1	Jun 2 - Jun 8	Jun 9 - Jun 15	Jun 16 - Jun 22	Jun 23 - Jun 29	Jun 30 - Jul 6	Jul 7 - Jul 13	Jul 14 - Jul 20	Jul 21 - Jul 27	Jul 28 - Aug 3	Aug 4 - Aug 10	Aug 11 - 17	Aug 18 - Aug 24	Aug 25 - Aug 31	Sep 1 - Sep 7	Sep 8 - Sep 14	Sep 15 - Sep 21	Sep 22 - 28										
PRELIMINARY DESIGN																																																														
FIELD STAKING																																																														
PROJECT REVIEW																																																														
GRANT APPLICATION & APPROVAL																																																														
CONTRACT BIDDING & APPROVAL																																																														
MATERIAL ORDER LEAD TIME																																																														
CONSTRUCTION																																																														
CUSTOMER ACTIVATION																																																														

BRACEY ROUTE 1 OSP FIBER REELS

Attachment #15

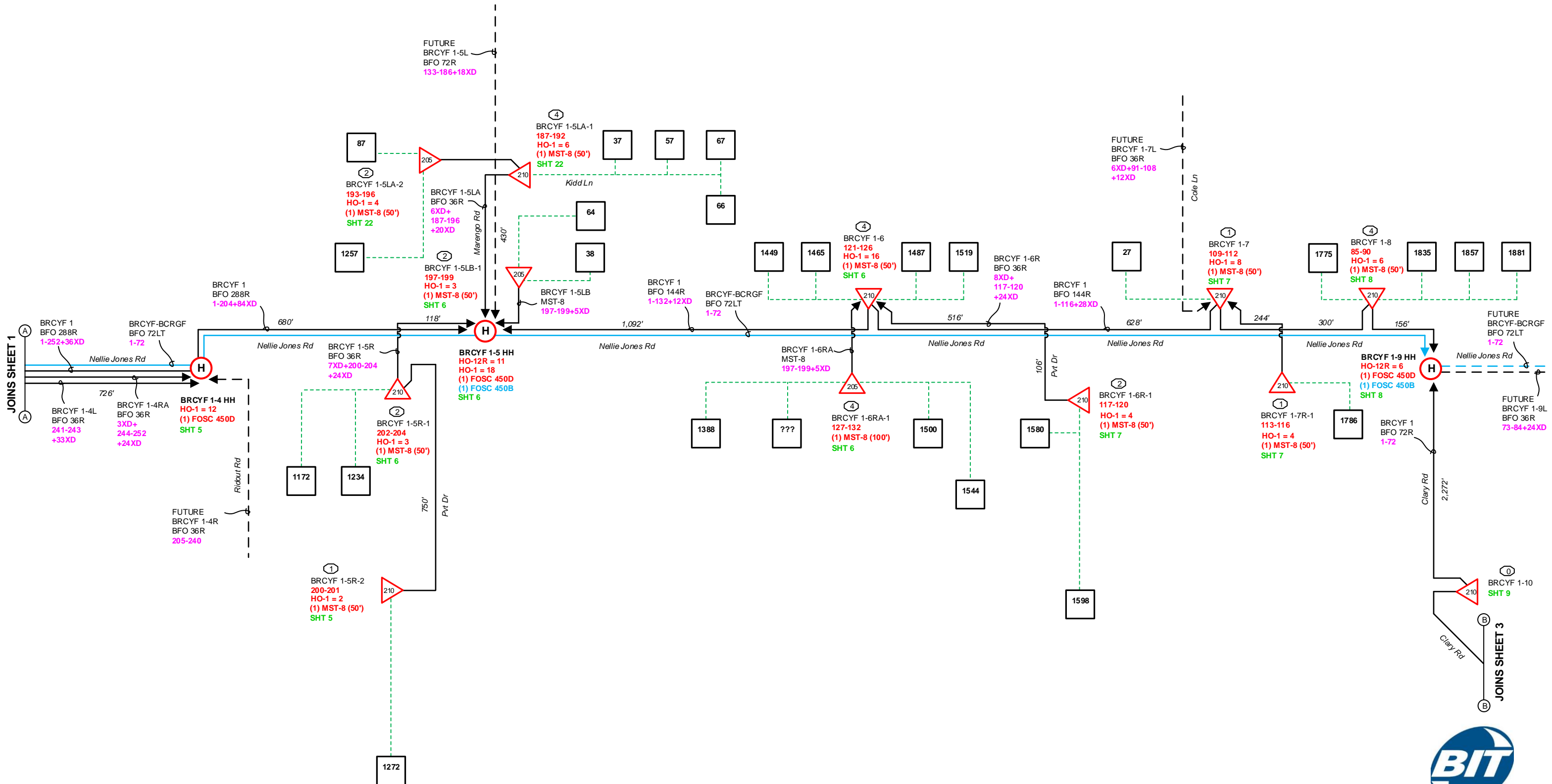


BRACEY ROUTE 1 OSP FIBER SCHEMATIC



JOINS SHEET 2

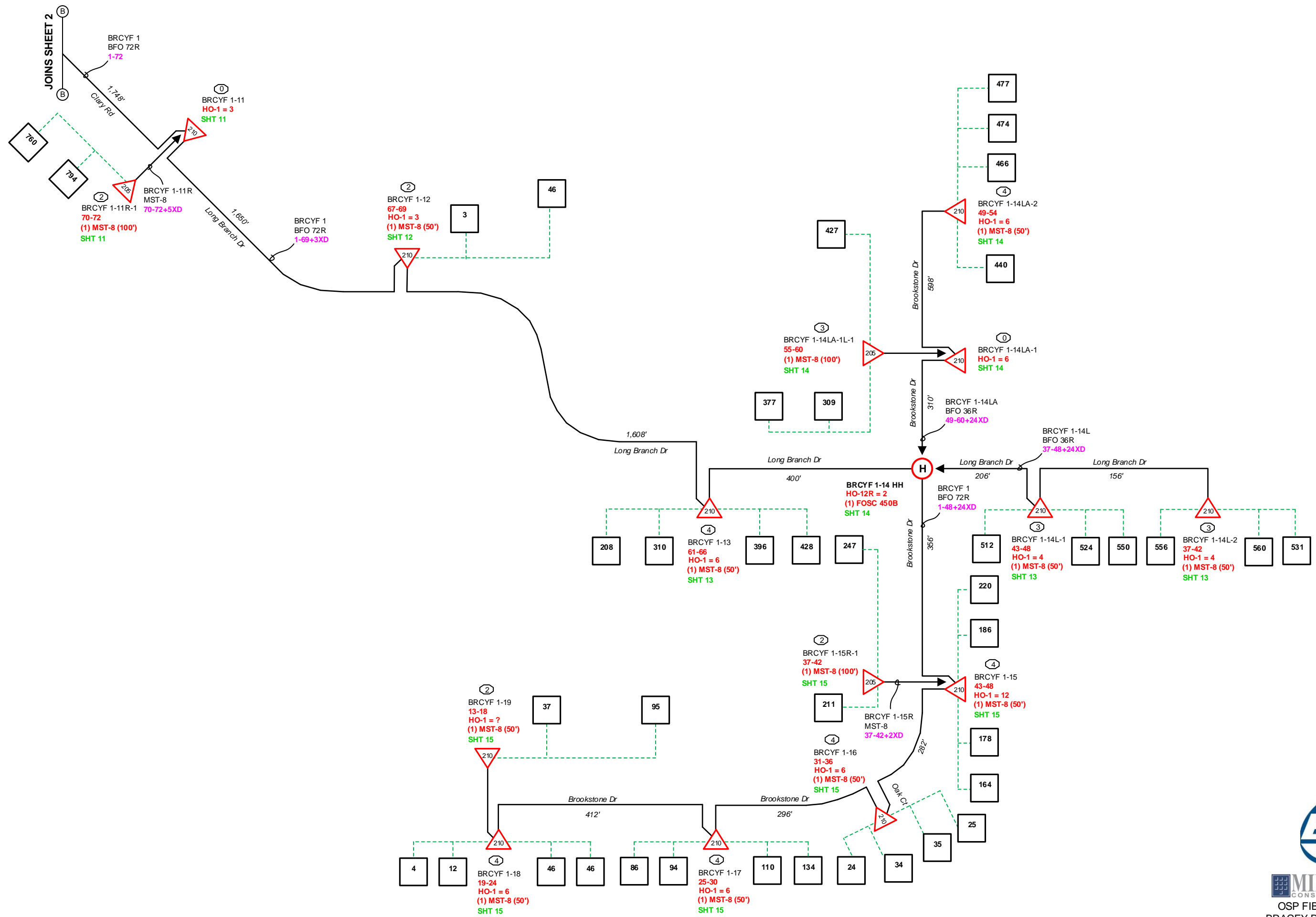




JOINS SHEET 1

JOINS SHEET 3







Date: November 14, 2018

Homeowner's Name: Long Branch Shores Property Owners Association

Address: 95 Brookstone Drive, La Crosse, VA 23950

Re: Letter of Support for Virginia Telecommunication Initiative Grant
Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

Thank you for considering our request for grant funding to install fiber optic cable for telephone and internet service into the Long Branch Shores (LBS) neighborhood. We submit this letter to you on behalf of our community in addition to letters included in this package from individual residents.

There are several reasons why we believe we are an excellent candidate for this grant. First of all, BIT has maximized the effectiveness of our current infrastructure of underground delivery lines, yet some on-going serious issues with the phone and DSL internet service. Primarily the issues are static on land lines, intermittent disruption of internet connectivity, and slow internet speed. BIT has been very responsive and worked tirelessly with the LBS community and the LBS POA Board of Directors to address these issues within the current infrastructure, e.g. re-bonding and re-grounding much of the copper cables that run underground to our development. Unfortunately, significant issues still occur with the current delivery system. Additionally, cell phone service in our neighborhood is generally unavailable. Our residents rely on land lines for communication.

The demographics of our neighborhood vary, with the majority of our residents over age 60, as this is a retirement community for most. As such, we have a number of people who require emergency services at times, and from a life safety perspective the land line is often the only way they can connect with 9-1-1. There are records of 9-1-1 activity to support this. Of course, any delay in reaching 9-1-1 can have detrimental consequences, and the emergency workers prefer callers use land lines when possible to facilitate accurate location determination. We also have residents who are semi-retired and much like we have seen in workforce trends, they are conducting business from home offices. Fiber optic connectivity will allow them to operate in a professional, reliable, and expeditious manner. Obviously, this will serve to improve local economic development with increased revenues and tax base - something that is much needed in our area. Finally, our residents with school-aged children need to utilize the internet for educational purposes, to ensure their best opportunity for success in the classroom.

We believe the benefits of fiber connectivity for our neighborhood would be the items outlined above, as well as speed, cloud access, reliability, signal strength, bandwidth, symmetric speed and latency. Grant funding would enable BIT to extend fiber optic lines into the LBS community



and directly to consumer homes. This would dramatically improve the delivery of phone and internet service to our neighborhood, protect the wellbeing of our residents, enable equal access to education, support local businesses, increase revenues and the county tax base, mitigate on-going service delivery issues, and generate new customers. We appreciate your consideration of our request and look forward to stellar connectivity in the near future.

Sincerely,

Thomas C. Niver, President

Alan Hartman, Vice President

Melissa Hartman, Secretary/Treasurer

cc: Michele Taylor, General Manager, BIT

Date: November 26, 2018

Homeowner's Name: Alan & Melissa Hartman

Address: 95 Brookstone Drive, La Crosse, VA 23950

Re: Letter of Support for Virginia Telecommunication Initiative Grant Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

We are writing to express our support and interest in the BIT grant application to develop a fiber-to-the-home offering in our area. Providing this type of phone and internet service to our rural community would provide significant benefits to our family as well as others in our community. This service will also enable us to compete effectively in the business market. We should not be disenfranchised simply because of our geographic location.

There are multiple reasons why fiber optic service would enhance the quality of life in our community. Our current service options are performing at their maximum but cannot position us to compete in today's market. Our current options for internet service and telephone service in this rural community are either DSL or satellite. DSL cannot provide the speed nor reliability that fiber optic can provide. Satellite service is hit or miss depending on the weather, obstructions, etc. Access to reliable internet is not simply a luxury. Our family depends on internet service for a multitude of essential services including:

- **Banking and bill payment** – our local bank branch recently closed so we are even more dependent on using the internet for online banking services.
- **Healthcare** - via medical portals for test results, communications with medical professionals, appointments, etc.
- **Work from home** - such as the ability to video conference and participate in web conferences. We run a home-based consulting business and we often must “go into town” to participate in video conferences since we cannot stream reliably from home with DSL.
- **Education** – several family members have been able to continue their education via online courses offered from various universities. I was not able to take my proctored exams from my home location because of the current constraints with internet service.
- **Landline phone service** – participation in telephone conference calls is impacted when calls drop or the static gets so bad the call cannot be continued. We have had to make 9-1-1 calls for neighbors before when their phone line did not work when needed.
- **Cell phone service** – cell phone reception is inconsistent at best in this rural area so many of us depend on Wi-Fi calling to be able to use cell phones when the landline is suboptimal. The Wi-Fi functionality is inconsistent with the current internet service.

For these reasons we strongly urge you to consider awarding grant funding for BIT to install fiber optic service to the Long Branch Shores community. We should be able to fully participate in our economy, educational system, and be confident that we can reach emergency services when needed.

Grant funding would enable BIT to extend fiber optic lines into the LBS community and directly to consumer homes. This would dramatically improve the delivery of phone and internet service to our neighborhood, help protect our wellbeing, and enable us to fully participate with equal access to education, business, safety, finance, and personal online services. We appreciate your consideration of our request and sincerely hope that you will award this grant funding to BIT.

Sincerely,

Handwritten signature of Alan Hartman in cursive script.

Alan Hartman

Handwritten signature of Melissa Hartman in cursive script.

Melissa Hartman



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11/18/2018

Homeowner's Name: Joseph + Leisha Lopresti

Address: 12 Brookstone Dr.

Home Phone Number: 434 636 8141

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

our wonderful lake community is in desperate need of improved broadband/fiber service. Our phone and internet services are poor at best and limit our access to modern life's technology. Our family is comprised of two adults and two children and all of which require technology that we currently are living without on many days. We run two successful businesses from home and I, Joseph Lopresti, am an Investigative 1st Sgt with the local Sheriff's office who is always on call and am required to have 24/7 access. The poor phone landline service and zero cell phone service make internet very important to us and the community I serve. Please consider our area for this grant. It will not be wasted on us.

Joseph + Leisha Lopresti agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11/17/18

Homeowner's Name: Thomas & Claire Nivar

Address: 25 Oak Court, Long Branch Shores Subdivision, Leesville VA ~~23950~~ 23950

Home Phone Number: (434) 636-3140

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify) *Reliable, faster internet service for personal use.*

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

Please see attached

I, Thomas & Claire B. Nivar agree to support the new fiber service when offered by BIT.

November 17, 2018

Thomas C. Niver
25 Oak Court
La Crosse, VA 23950

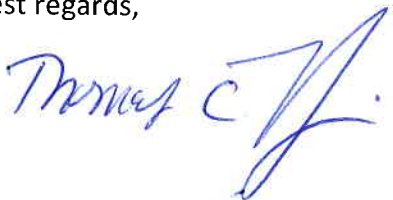
I have been experiencing on-going serious issues with the phone and DSL internet service. Primarily the issues are static on land lines, intermittent disruption of internet connectivity, and slow internet speed. BIT has been very responsive and worked tirelessly with me to address these issues within the current infrastructure of underground delivery lines, e.g. re-bonding and re-grounding much of the copper cables that run underground to our development. Unfortunately, significant issues still occur with the current delivery system. Additionally, my cell phone service is generally unavailable. I have to rely on land lines for communication.

We are an active family with elderly parents at home, we require emergency services at times, and from a life safety perspective the land line is often the only way I can connect with 9-1-1. Of course, any delay in reaching 9-1-1 can have detrimental consequences, and the emergency workers prefer callers use land lines when possible to facilitate accurate location determination.

I am also semi-retired and conduct a small environmental consulting business, EES, Inc., from my home office. Fiber optic connectivity will allow me to operate in a professional, reliable, and expeditious manner for my clients. Obviously, this will serve to improve local economic development with increased revenues and tax base - something that is much needed in our area.

Finally, I also need to utilize the internet for general educational purposes, annual OSHA 29 CFR.120 HAZWOPER training and for completing continuing education credits to maintain my professional license.

Best regards,

A handwritten signature in blue ink, appearing to read "Thomas C. Niver". The signature is stylized and written in a cursive-like font.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date:

Homeowner's Name: Kelly C Nelson

Address: 478 OAKCt LaCrosse VA 23950

Home Phone Number: 4346362431

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

My job requires access to the internet every day - all day - I am able to work from anywhere as long as I have access to the internet. The slow speed I have now at Longband makes it very difficult to work from my home. And if someone else in my home is using some other device it is impossible

Kelly J Nelson

_____ agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date:

Homeowner's Name: *Travis Belcher*

Address: *466 Brookestone Dr LaCrosse VA 22950*

Home Phone Number: *434636 2087*

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I am members of two organizations staff and committees. Constant use of e-mail contact to perform duties. Due to poor landlines, about 1.5 Mbps is all I can get at present. If we don't get Fiber soon I will change to Direct TV for all services.

I *Travis Belcher* agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11-25-2018

Homeowner's Name: Christopher & Lisa Clary

Address: 4 Brookstone Dr La Crosse VA 23950

Home Phone Number: 434 636 4654

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

Broadband would greatly enhance our family. We have a child who uses the internet to help his learning for school as he has several learning disabilities. We have one who is in high school. And I am always working on my degree. Faster speeds would greatly enhance all of these.

Lisa Clary
offered by BIT.

agree to support the new fiber service when



Also video streaming would be better enjoyed without all the buffering. We are currently working with 3mbps, trying to pay bills online, video streaming cell phones (which we have no service at our home, so they are also connected to the internet.)

My husband also has to do work from home.

Fiber to the home would be awesome and very helpful...

Thank You

Jusa Clay
4 Brookstone Dr
La Crosse VA

23950

434 636 4654



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date:

Homeowner's Name: *Lorraine Beaulieu*

Address: *380 Long Branch Dr Bracey VA 23919*

Home Phone Number: *434 636 3574*

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12 *only on weekends*
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I will like it to speed up internet watch movies with out the movie stopping to download all throu the movie We did have a problem with the phone that seems to have gotten better I guess I will need Intermediate mostly for multiple users. When kids here every one is on phone + tablet + everything slows down!!!

I *Lorraine Beaulieu* agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11-22-18

Homeowner's Name: Martin + Marie Griggs

Address: 309 Brookstone Dr., LaCrosse, VA 23950

Home Phone Number: 252-825-9508

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

We would be able to have access to online banking, emailing, access to current events local and nationwide, access prescriptions online ordering. Access information for "How to" learning, take care of any Social Security needs.

Martin + Marie Griggs

agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11-18-18
Homeowner's Name: William I. Carter
Address: 86 Brookstone Drive, Bracey, Va.
Home Phone Number: 434-636-6201

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
 - Home-based business
 - Home school my children
 - School children K thru 12
 - Education through distance learning
- Access to health care
 - Job searching
 - Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

As technology + the requisite connectivity become a more critical component of our everyday lives, it is essential that high speed reliable internet access be available to the Bracey community. Providing this service will enhance the ability to fulfill the above needs. This will mean more people in the community, more revenue for local business, increased property values. Win.. Win... Win.

I, William I. Carter agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11-21-18
Homeowner's Name: C. Paloguin
Address: 186 Brookstone Dr
Home Phone Number: 434-636-3691

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I C. Paloguin agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date:

Homeowner's Name: Charles & Linda Clary

Address: 477 Brookstone Dr. La Crosse VA 23750

Home Phone Number: 434 636 3313

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

Linda M. Clary

agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date:

Homeowner's Name: Charles P. Thomas

Address: 35 Oak CT LaCrosse VA 23950

Home Phone Number: 434.636.5784

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I Charles Thomas

agree to support the new fiber service when

offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: Nov. 14, 2018

Homeowner's Name: PHILIP PRICE

Address: 220 BROOKSTONE DR. WACROSSE VA 23950

Home Phone Number: 434 636 2802

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
 - Home-based business
 - Home school my children
 - School children K thru 12
 - Education through distance learning
- Access to health care
 - Job searching
 - Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I Philip W. Price

agree to support the new fiber service when

offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11-25-18

Homeowner's Name: Walter Sykes

Address: 208 Longbranch Dr. Lacrosse, VA 23950

Home Phone Number: 434-636-2983

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I  Walter V. Sykes agree to support the new fiber service when offered by BIT.



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Virginia Telecommunication Initiative Grant for Fiber to the Home

Date: 11/27/2018

Homeowner's Name: Joyce A. Crossman

Address: 556 Long Branch Dr.
La Crosse, VA 23950

Home Phone Number: 636-4256

Re: Letter of Support for Fiber-to-the-Home Services

Dear Representatives of the Virginia Department of Housing and Community Development,

I am writing to express my support and interest in the BIT grant application to develop a Fiber-to-the-home offering in my area. Due to the limitations of my current DSL service, I am unable to enjoy the offerings of today's global marketplace.

Rural communities increasingly face problems due to broadband services being slow, sporadic and/or limited. We all rely on broadband service to connect to the global marketplace to perform basic functions. Broadband has gone from being a luxury to being a necessity for full participation in our economy. Rural areas need creation of sustainable broadband in order to complete daily activities.

I have referenced below, by highlighting the boxes, the essential functions that higher broadband speeds will enhance the daily lives of my family since virtually all aspects of life rely on broadband connectivity.

- Work from home
- Home-based business
- Home school my children
- School children K thru 12
- Education through distance learning
- Access to health care
- Job searching
- Other (please specify)

Please explain in your own words how essential broadband will enhance you and your family's lives. Give examples: (Attach another sheet if needed)

I Joyce A. Crossman agree to support the new fiber service when offered by BIT.



H. Wayne Carter III
County Administrator
Emergency Services Director

Mecklenburg County Board of Supervisors

Post Office Box 307 • Boydton, Virginia 23917

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December 7, 2018

Department of Housing and Community Development
600 East Main Street, Suite 300
Richmond, VA 23219

Dear Representatives of the Virginia Department of Housing and Community Development:

I am writing on behalf of the Mecklenburg County Board of Supervisors to express our full support and willingness to serve as Applicant of the Virginia Telecommunications Grant application for BIT. They have a long and successful history of providing state-of-the-art telecommunications services in the State of Virginia for over 65 years and have a strong reputation for customer service and community commitment. We are confident in BIT's capabilities for enhancing broadband service for our community.

With this grant, Mecklenburg County and BIT will enhance broadband connectivity with a fiber network design. This fiber build will enable them to overcome some geographical distances, empower through information, and bring the world to citizens through a few simple strokes of a keyboard. This unserved rural area with limited Internet services, faces many challenges including limited medical resources and distance between patients, physicians, specialists and facilities. Because of the rural nature of the area, students do not receive equitable broadband resources as other students in more urban learning centers. They lack the research, distance learning, video and other tools that advanced broadband can bring to our students. Therefore, it is extremely important that broadband grant funding be obtained to provision for much needed broadband service to this area.

We strongly urge that the Department of Housing and Community Development fund this grant application, not only will this help with sustaining the future of advanced broadband services in BIT's proposed funded service area, but also promoting the future economic stability of our community.

Sincerely,

A handwritten signature in black ink, appearing to read "HWC", is written over a horizontal line.

H. Wayne Carter, III.
County Administrator