

Project Information

Company: Acadiana Broadband

Project Description

General Info

Project #:	250
Project Name:	ABB - Pointe Coupee
Total Project Cost:	18,791,560.11
Total project cost per prospective broadband recipient:	3,884.16
Infrastructure cost per prospective broadband recipient:	3,685.76
Number of households to be served:	4811
Number of businesses to be served:	27
GUMBO cost per prospective broadband recipient:	2,830.04
Number of GUMBO households to be served:	4811
Number of GUMBO businesses to be served:	27
General Location/Parishes:	Pointe Coupee
Base Speed (Minimum Download/Upload):	100/20
Supported Scalability Speeds (Minimum Download/Upload):	2000/2000 Mbps

Qualifications and Experience:

Provide the following details:

- Number of years the applicant has provided internet services;
 - A history of the number of households and consumers, by year of service, to which the applicant has provided broadband internet access, as well as the current number of households to which broadband internet access (at least 25:3 Mbps) is offered;
 - The number of completed internet service infrastructure projects funded, in part, through federal or state grant programs, prior to the date of application submittal;
 - Whether the applicant has ever participated in an internet service infrastructure project funded, in part, through federal or state grant programs, and if so, for each project, the nature and impact of the project, the role of the applicant, the total cost of the project, and the dollar amount of federal or state grant funding;
 - The number of penalties paid by the applicant, a subsidiary or affiliate of the applicant, or the holding company of the applicant, relative to internet service infrastructure projects funded, in part, through federal or state grant programs, prior to the date of application submittal; and
 - The number of times the applicant, a subsidiary or affiliate of the applicant, or the holding company of the applicant has ever been a defendant in any federal or state criminal proceeding or civil litigation as a result of its participation in an internet service infrastructure project funded, in part, through federal or state grant programs, prior to the date of application submittal
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Mike Guidroz is the founder, and president of Acadiana Broadband. He has been in the telecommunications business for over thirty-four years. In 2002, he began a telecommunications company, focusing on cutting edge communication technology for the oil and gas industry, Data Technology Solutions. In this 14 year period he was awarded two communication patents. DTS had over 140 employees with office locations in North Dakota, Pennsylvania, Texas and Louisiana. DTS has provided telecommunications and developed wireless networks to some of the most prominent businesses in the world such as Baker Hughes, Schlumberger, Nabors Drilling, HESS, Ingram, and BHP. DTS succeeded in building one of the largest privately owned wireless broadband networks for the oil and gas industry in North Dakota, Louisiana, West Texas and South Texas covering 1000's of square miles. This allowed DTS to win multi-million dollar contracts with Nabors, Baker Hughes, BHP and Schlumberger. In Lafayette, Louisiana we were approached by Slemco, requesting that we design and build out a high speed internet network. Today this network is still being utilized by Slemco. Data Technology was sold to RigNet (now VIASAT). Acadiana Broadband was founded on the idea of bringing the same connectivity to the residence of Mike's home town, Arnaudville, Louisiana. We have been serving residents in this area with this idea for over eleven years now. Acadiana Broadband is a certified Hudson Initiative recipient. Acadiana Broadband is an innovative and value driven company in the business of telecommunications. We provide some of the most cutting edge technology to residents in many parts of South Louisiana. These areas include Abbeville, Arnaudville, Branch, Breaux Bridge, Broussard, Cameron, Cankton, Carencro, Cecilia, Church Point, Duson, Erath, Grand Coteau, Lawtell, Lebeau, Lewisburg, Maurice, Mire, Opelousas, Pecan Island, Port Barre, Rayne, Sunset, and Ville Platte. We have been an established and popular company with an excellent track record for the best customer satisfaction. We never compromise on the quality and the services we provide to the customer. We believe in keeping the company happy and providing them with products at a very fair and competitive price. Acadiana Broadband has never participated in any internet service infrastructure project through federal or state grant programs. • The number of penalties paid by the applicant, a subsidiary or affiliate of the applicant, or the holding company of the applicant, relative to internet service infrastructure projects funded, in part, through federal or state grant programs, prior to the date of application submittal; and • The number of times the applicant, a subsidiary or affiliate of the applicant, or the holding company of the applicant has ever been a defendant in any federal or state criminal proceeding or civil litigation as a result of its participation in an internet service infrastructure project funded, in part, through federal or state grant programs, prior to the date of application submittal. Acadiana Broadband has never had to pay any penalties or fees pertaining to this description. Acadiana Broadband has never been a defendant in any federal or state criminal proceeding or civil litigation as a result of its participation in an internet service infrastructure project funded, in part, through federal or state grant programs, prior to the date of application submittal.

Financial Background:

- Provide five years of financial statements, pro forma statements, or financial audits to ensure financial and organizational strength regarding the ability of the applicant to successfully meet the terms of the grant requirements and the ability to meet the potential repayment of grant funds. If the applicant has been in business for less than five years, provide documentation for the number of years in business
- Indicate whether the applicant, a subsidiary or affiliate of the applicant, or the holding company of the applicant has ever filed for bankruptcy

Acadiana Broadband's Audited Financial Statements are attached for years 2018 - 2022. Acadiana Broadband has never filed for bankruptcy.

Partnerships:

Provide the identity of any partners or affiliates if the applicant is proposing a project for which the applicant affirms that a formalized agreement or letter of support exists between the provider and one or more unaffiliated partners where the partner is one of the following:

- a separate private provider of broadband service, requiring a formalized agreement; or
- a nonprofit or not-for-profit, or a for-profit subsidiary of either, and the applicant is:
 - being allowed access and use of the partner's infrastructure, on special terms and conditions designed to facilitate the provision of broadband services in unserved areas, requiring a formalized agreement;
 - utilizing a matching financial and/or in-kind contribution provided by one or more partners, requiring a formalized agreement; or
 - a parish, municipality, or school board, or any instrumentality thereof, may qualify as a nonprofit for the purposes of the GUMBO grant program. Letters of support by a parish, municipality, or school board, or any instrumentality thereof, supporting an application may be submitted as part of an application. A letter of support does not require a formalized agreement.
- Provide a brief narrative explaining how the partnership or affiliation will facilitate deployment and reduce cost per prospective broadband recipient. For applications or project areas where the nonprofit or not-for-profit partner provides only matching financial support, that information can be documented in the budget section within the relevant application or project area.

The Conterra services provided for the Pointe Coupee Parish project in support of the ABB GUMBO grant application will facilitate deployment and reduce cost per prospective broadband recipients. Conterra is providing dark fiber through an Indefeasible Right of Use (IRU) Agreement of a complete fiber tube with access to support the FTTH distribution network, backhaul to both a North Internet POP and the South Internet POP, and provide Middle Mile fiber between service areas within the defined project area. By leveraging the existing fiber infrastructure, ABB will be able to begin FTTH deployment in Morganza and New Roads with a robust, resilient, carrier grade fiber backbone and have fiber capacity for the XGS- PON solution. In addition to reducing the time to deliver broadband services, the service will also reduce cost to the project and ongoing operations and support. ABB will lease approximately 24 route miles of fiber /288 strand miles. Approximately 5.97 miles will be used for middle mile interconnect of FTTH areas; approximately 65 strand miles will be used within the FTTH distribution solution, and 11 miles will be used to backhaul to the Internet POP. The IRU comes with support and service from Conterra network to enable ABB to bring high quality services to the parish. Conterra will also work with the Parish and ABB to connect the Water Towers to the fiber network to provide high bandwidth Internet service to the ABB/Parish Wireless initiative to connect locations with no current broadband service until the GUMBO funded FTTH solution can be delivered to these homes. Through these services, ABB will have decreased cost and time; increase resiliency and scale and provide a carrier grade network and Internet solution from the beginning of the project for service delivery throughout the deployment. Finally, Conterra is working with ABB on the design and deployment of the backbone network to support the FTTH distribution network. By extending the existing fiber network with a backbone network, ABB can deploy the distribution network in the most effective way.

For work being performed by Hudson Initiative or Veterans Initiative qualified applicants or contractors, provide documentation and/or a formalized agreement.

Acadiana Broadband is a Certified Hudson Initiative recipient. (certificate/ approval letter attached)
Acadiana Broadband also plans to contract any work needed through companies that are Hudson/
Veteran Initiatives.

Project Area

Assessment of the Current Level of Broadband Access in the Proposed Deployment Area

Describe the current level of service within the area and provide the data source or methodology used to capture this information. Raw data may be submitted as part of the assessment. If data is

available to support differences between advertised and transmission speeds, applicants may also submit applications for areas where transmission speeds are less than 25:3 Mbps.

See attachment for the 4838 locations that are unserved/underserved.

Services

Provide a description of service options to be provided:

Service Name	Upload/download speed	Date of 1st Availability	Data Cap	# of recipients	Price
Tier 1	25/10	3 months after awarded	none	4838	30.00
Tier 2	100/20	3 months after awarded	none	4838	79.99
Tier 3	100/100	12 months after awarded	none	4838	99.00
Tier 4	250/250	12 months after awarded	none	4838	109.00
Tier 5	1 gig/1 gig	12 months after awarded	none	4838	160.00

Marketing

Provide documentation for applicant engagement to connect consumers with community education forums, multimedia advertising, and marketing programs.

Acadiana Broadband's social media advertising will specifically target potential customers in their service region of Pointe Coupee Parish. Ads will highlight the speed, price, and reliability of Acadiana Broadband's services. Regarding advertising our ACP program, we will develop digital ads educating the community on the benefits of this program and how to apply. Advertisements will be monitored for performance to determine if/when adjustments should be made to budget, frequency, or target audiences. Acadiana Broadband plans to host community educational forums at local libraries and schools when applicable. By hosting these workshops, Acadiana Broadband plans to teach the community digital literacy skills to successfully navigate and properly use the internet. We will also educate the community on how to apply for the ACP Program. If permitted, marketing material such as but not limited to door hangers, yard signs, and mailouts will be utilized to alert potential customers.

Adoption

Provide documentation that shows low-income household service offerings, digital equity or literacy support, or programs or partnerships to provide these services. The applicant should also indicate current participation in, or plans to, accept the federal Lifeline subsidy.

Acadiana Broadband was approved for the Affordable Connectivity Program. Attached is the letter of approval.

Community Support

Evidence of support for the project from citizens, local government, businesses, and institutions in the community, including letters of correspondence from citizens, local government, businesses, and institutions in the community that supports the project

Attached is the letter of support from Pointe Coupee Parish president, Mr. Major Thibaut. Mr. Thibaut is also providing Acadiana Broadband with the use of Pointe Coupees Water District towers along with a local match for \$250,000. We have also attached a letter of support from Senator Fred Mills. We have also attached a letter of support from Senator Jeremy Lacombe.

Local Workforce

Documentation of a workforce plan prioritizing the hiring of local, Louisiana resident workers, to include a signed letter of intent with a post-secondary educational institution that is a member of the Louisiana Community and Technical College System, containing an obligation upon the applicant, and contractors or subcontractors of the applicant, to put forth a good-faith effort to hire, when possible, recent graduates of broadband-related programs.

Acadiana Broadband will seek help through local Hudson/Veterans initiative companies and emphasize hiring the local labor force. Upon receiving the GUMBO Grant Acadiana Broadband anticipates hiring an additional three employees with as many local employees as possible. Acadiana Broadband is developing a student workforce plan with South Louisiana Community College to discuss educating and employing potential Fiber optic technicians through their Technical College Program.

Technical Report

Reporting Requirements

Explain in technical detail the technologies to be used in the proposed project and the broadband transmission speeds offered to prospective broadband recipients as a result of the project. If it would be impracticable, because of geography, topography, or excessive cost to design a broadband infrastructure project that would deliver 100:100 Mbps, the applicant must provide an explanation. Transmission speeds of 100:20 Mbps are the minimum allowable under this grant program.

ABB's Point Coupee proposed project comprises both wireless and wireline technologies. . The project will be carried out as "Get Connected Now" and "GUMBO". The whole project will provide upgradation of broadband transmission speeds to the prospective 4,838 broadband recipients who will be served under the proposed project per the requirement under the State's GUMBO grants for Pointe Coupee Parish, Louisiana. The proposed project comprises of 12 FTTH Areas/Polygon which covers all 4,838 locations to be served by end of "GUMBO" project with a speed of 2000 Mbps symmetrical. Wireless Technology- ABB, utilizing a portion of the Parish financial contribution and the in-kind Water Tower contribution, will implement a Next Generation Fixed Wireless solution to bring high-speed broadband to outlier GUMBO identified locations within the first 3 to 6 months of the project. These areas are the least dense, most expensive areas of the project and cannot be serviced by FTTH until the backbone and distribution networks are built and fiber laterals extended to these areas. This project, "Get Connected Now" will provide services to four (4) areas (FTTH Areas #4, #5, #7 and #8) serving 135 locations. "Get Connected Now" Project does not request GUMBO funds support but is critical in the overall access, adoption, and affordability plan of the project. Shapefile of these Areas is attached as part of this application. These Areas has 135 locations which will be served with point-to-multipoint wireless connections for the last mile by using the 5 GHz Tarana G1 platform as well as Microwave backhaul is planned by using Aviat radios. "Get Connected Now" project is targeted to be completed within (6) six months from the date of grant award, serving the recipients with a base minimum speed of 100/20 Mbps, which is scalable up to 2000 Mbps symmetrical once the wireless technology will be upgraded to the wireline technology by end of "GUMBO" Project. ABB's wireless solution utilizes a combination of point-to-point and point-to-multipoint connections where point-to-point is planned for microwave backhaul and point-to-multipoint is for the last mile. The last mile is planned to utilize the Tarana G1- 5 GHz (unlicensed) spectrum which works in LoS (line-of sight) and nLOS (Non-line of sight). The maximum distance reach for NLoS is up to 1.9 miles. Its range can extend up to 9.3 miles during LoS (Line-of sight) reach. Each sector serves a maximum of 250 locations. ABB proposes Aviat microwave radios to deploy the Backhaul network which will operate in the 80 GHz band. Both towers are connected through a microwave link to transfer aggregated traffic and one of the towers is connected to Conterra's fiber which

in turn is connected to the Core network. Within the GUMBO services of the grant, the ABB project includes connecting the North IRU fiber to a Conterra POP in Simmesport via microwave to provide a resilient and protected Internet solution. By extending the existing fiber to a North Internet POP, the project will improve overall Internet services to all of the 4,838 locations. Wireline Technology- ABB's proposal includes using XGS-PON technology to deploy internet services to 4,838 locations (including the 135 locations which will be served through the "Get Connected Now" fixed wireless technology project) via the FTTH network. In the fiber distribution network, the XGS-PON network comprises passive Optical line terminals (OLT), Splitters, and Optical network terminals (ONT). ABB will use Adtran TA 5000 chassis which contains 21 access modules, each card supports 8 SFPs of XGS-PON. As a result, subscribers will be capable of speeds of 2000 Mbps download / 2000 Mbps upload. Depending on the proposed project requirement, ABB has planned to use a split ratio of 1:32. ABB will be installing ONTs on the customer's premises, which will provide broadband connectivity to the end users. With the fiber backbone and distribution network design and the XGS-PON technology, the wireline solution have the ability to support up to 10 Gb connectivity to the locations.

Explain the scalability of the broadband infrastructure to be deployed to meet future bandwidth needs.

The Internet design for the project will provide a service that adds Internet capacity and scalability to the parish through this project and also resiliency. By implementing a new North route by extending the existing fiber backbone via microwave, the project will bring an additional path, with a separate POP and separate upstream Internet connection from the existing South POP and Internet backhaul. The design provides a cost-effective way to deliver increased bandwidth into the parish and network to support the XGS-PON deployment in the near and long term. The Managed Internet Service from Conterra will provide a carrier grade multi-path solution for the project utilizing existing Internet POPs in Rougon and Simmesport. The ABB and Parish "Get Connected Project" is targeted to be completed within (6) six months from the date of grant award, serving 135 locations with a speed of 100/20 Mbps using fixed wireless where point-to-multipoint wireless connections are planned for the last mile by using 5 GHz Tarana G1 platform and microwave backhaul will be deployed using Aviat radios. The GUMBO project will provide fiber to the home services to the 4,703 locations which are part of the FTTH areas (1, 2, 3, 6, 9, 10, 11 and 12) and an upgradation of network to FTTH services to the 135 locations which were initially served with Fixed wireless technology. By the end of GUMBO Project, all 4,838 prospective broadband recipients will be getting speed of 2000/2000 Mbps. The scalability of the broadband infrastructure is enabled through the design of the fiber backbone network, the fiber distribution networks, and the XGS-PON technology and design deployment. The proposed solution includes extending the existing fiber with a newly constructed ring fiber backbone to connect the FTTH distribution areas. The resulting fiber backbone through the service area will be able to meet the GUMBO project needs and support technology implementations including 5G, upgrade to school, library, hospitals network services to highly available- resilient solutions not available today. Conterra is highly experienced in designing, building, and managing flexible networks that address the unique needs of carriers. Conterra has dedicated and experienced business unit for carrier sales. Conterra offers non-discriminatory interconnection to terrestrial and wireless last mile broadband providers and other parties as an existing part of the Conterra business. NOTE: There is approximately 4 miles of backbone fiber that could be eliminated; however, it would highly decrease the resiliency and scalability of the network. The proposed FTTH network will be using XGS-PON technology. With this technology, the proposed broadband infrastructure will become capable of delivering speed of 2000/2000 Mbps to all the grant eligible recipients under the program. With the increase in the dependency on internet services, network congestion and not getting adequate bandwidth have been the area of concern. The fact that XGS-PON is consistent and dependable even in locations with high traffic demand and congestion is a benefit. Furthermore, the use of optical splitters guarantees a minimum bandwidth allocation to end users at all times, maintaining stable connectivity. Due to the intrinsic properties and long terms benefits of fiber optics, it is free of electromagnetic or radio interference. The use of more bandwidth-intensive content and services, such as 4K and 8K video, videoconferencing, augmented reality and virtual reality, and gaming, will be made possible via XGS-PON.

Provide a proposed construction timeline and duration of the deployment project period. The deployment project period is the time from award of the grant agreement to the time that service is available to the targeted prospective broadband recipients under the grant. Describe estimated timeline, deployment roll-out and number of end-users to be served in each phase (10 percent, 35 percent, 60 percent, 85 percent, 100 percent).

ABB has developed a project deployment plan to meet the needs of the parish and the most effective deployment of the FTTH broadband solution. ABB will be prepared to execute Notice to Proceed notices to the subcontractors upon the receipt of the GUMBO award agreement. NOTE: The final construction team design may change area deployments. Phase 1: 10% The ABB Phase 1 project includes 3 simultaneous project tracks: 1. Final design review, project teams and subcontractors activated. 2. Conterra Backbone Fiber from IRU and Managed Internet Service Delivery Project Activated and Delivered. 3. The ABB/Parish "Get Connected Now" Project. 135 Locations will be served in Phase 1. Phase 1 Timeline: Month 1 – Month 6. Phase 2: 35% The ABB Phase 2 project delivers services on the backbone and begins the construction of the backbone extending from the existing fiber: 1. The deployment of services to locations on the existing backbone. These are Area #1 and Area #2(a). 2. Construction of the backbone to the Rougon POP – the primary Internet POP of the project and the south head-end of the FTTH network. 1484 Locations will be served in Phase 2. Phase 2 Timeline: Month 3 – Month 6. Phase 3: 60% The ABB Phase 3 continues the FTTH area distribution on the constructed backbone and continue to build backbone network to support deployments. 1. The deployment of services to locations on the constructed backbone. These are Area #2(b), Area #3, #10 and #11. 2. Construction of the backbone in Areas #12 and #9. . 1709 Locations will be served in Phase 3. Phase 2 Timeline: Month 6 – Month 10. Phase 4: 85% The ABB Phase 4 continues the FTTH area distribution on the constructed backbone and continue to build backbone network to support deployments. 1. The deployment of services to locations on the constructed backbone. These are Area 12 and #9. 2. Construct Lateral to enable deployment into Area 6. 1215 Locations will be served in Phase 4. Phase 2 Timeline: Month 9 – Month 14. Phase 5: 100% The ABB Phase 5 extends laterals to outlier areas for FTTH area distribution. Phase 5 also focuses on management, documentation, and project close-outs. 1. The deployment of services to Area 6. 2. Build laterals for FTTH areas to areas 4, 5, 7 and 8. 430 Locations will be served in Phase 5. Phase 2 Timeline: Month 12 – Month 18. Work for this project will be performed by a combination of in-house employees and through contractors. ABB is an Internet Service Provider with employees that will be utilized for the project. ABB is a Hudson certified vendor in Louisiana. In addition, as a Hudson certified vendor, ABB commits to a good faith subcontracting plan to contract with or employ contracts with a small business, entrepreneurship, or entrepreneurs, certifies by the Hudson Initiative (R.S. 39:2001 et seq.) or the Veteran Initiative (R.S. 39:2171 et seq.) to substantially participate in the performance of the project.

X **Wired Infrastructure**

X **Fixed Wireless**

Wired Infrastructure Deployment Reporting Requirements

Describe the general design of the project and deployment plan and include the following:

- Explanation of the existing networks and equipment to be used for the project. If assets are owned by another entity, explain how they will be used for this project and, if applicable, provide a copy of the agreement between the applicant and the owner.
- Total number of miles of project infrastructure deployment, and the number of miles of project infrastructure deployment accounted for by preexisting infrastructure
- Detailed explanation of how the new or upgraded infrastructure will serve the prospective broadband recipients. In the case of the installation or upgrade of a specific site infrastructure, such as a point of presence or fiber hut (fiber), pedestal (cable), or a remote exchange/DSLAM (DSL), the applicant must include:
 - The number of prospective broadband recipients that will be served by that site

infrastructure

- The distance from the specific site infrastructure such as a POP, pedestal, or DSLAM to the end user(s) and the expected broadband speed that will be effectively delivered
- Detailed description of the design work needed for deployment, such as, but not limited to, pole work, acquiring or updating easements, and/or property acquisition.

Upon the grant award, ABB will start backhaul fiber deployment for the proposed FTTH areas excluding FTTH area 1. FTTH area 1 will be utilizing existing Conterra Fiber for backhaul connectivity. At this period, the distribution network for FTTH area 1 will be built concurrently with the rollout of fixed wireless services for the 135 locations that were targeted in “Get Connected Now” Project. Continuation of backhaul fiber deployment and the construction of the distribution network for the remaining FTTH areas (2 to 12) will take place during GUMBO Project. The ABB’S proposed project includes deployment of 139 miles of fiber infrastructure by the end of GUMBO Project, as described earlier in the technical report. ABB does not currently have preexisting infrastructure of its own in the target area. ABB will lease approximately 24 route miles of fiber /288 strand miles. Approximately 5.97 miles will be used for middle mile interconnect of FTTH areas; 65 strand miles will be used within the FTTH distribution solution, and 11 miles will be used to backhaul to the Internet POP. The IRU comes with support and service from Conterra network to enable ABB to bring high quality services to the parish. Conterra will also work with the Parish and ABB to connect the Water Towers to the fiber network to provide high bandwidth Internet service to the ABB/Parish Wireless initiative to connect locations with no current broadband service until the GUMBO funded FTTH solution can be delivered to these homes. The Managed Internet Service from Conterra will provide a carrier grade multi-path solution for the project utilizing existing Internet POPs in Rougon and Simmesport. ABB will be utilizing 24 miles of preexisting Conterra’s fiber infrastructure, 27 miles of backbone infrastructure which includes the extension and the construction of new backbone network and construction of 127 miles of distribution network. ABB analyzed the National Risk Index data and considering proximity to the body of water, it plans to go with a minimum of 70% buried fiber deployment. In this way it is resilient to adverse climate events and allows for future growth. For the deployment of the fiber infrastructure, ABB proposes two hubs at two separate locations, one in Morganza and the other in Falls River. Upstream of Optical Line Terminal at Morganza will connect to existing Conterra fiber. The OLT at Morganza will serve approximately 639 locations and OLT present in the hub located at the Fall River will be serving approximately 4,199 locations. Together they make up, the total of 4,838 locations, which is the number of broadband customers required to be served per the GUMBO grant requirement for Pointe Coupee Parish. The average distance from the Morganza hub to the targeted recipients (639) is 0.99 miles and the average distance from the Falls River to the remaining targeted recipients (4,199) is 3.9 miles. The fiber optic cable from the OLT is split at a splitter cabinet and the location of the splitter will be decided based on the customer spread/distance. Each splitter cabinet will serve a maximum of 288 locations. The splitter capacity is utilized 80% and the remaining 20% is kept for spare purposes. Each NAP (Network Access Point) can serve up to 8 locations. From NAP, each customer will be served via “Drop fiber”. At the customer’s premises, the “drop” connects to an Optical Network Terminal (ONT) inside the customer premises. ABB will provide the ONT and complete all the necessary installations. ABB will execute agreements as below upon the grant award: *Pole attachment agreement for the proposed project which comprises of 179,000 ft of aerial routes. *Underground permits for buried 604,000 ft of fiber. *Permits to get the power at the cabinet/enclosure at water towers. *ABB will execute Indefeasible Right of Use (IRU) Agreement with Conterra to use their complete fiber tube with access to support the FTTH distribution network, backhaul to both a North Internet POP and the South Internet POP, and provide Middle Mile fiber between service areas within the defined project area. Also it requires, Environmental permitting around the lake areas in defined project. ABB will also start the process of site verification for laying down of the distribution network and Backbone Design planning from Conterra upon the grant award. A business continuity and disaster recovery plan is attached in the form of document under this section.

Wired Assets

Existing Network	Existing Equipment	New/Upgraded Infrastructure	Installation Type	Num of Recipients	Avg Distance in Miles Between Prospective Recipients	Expected Speed
Conterra	NA	Fiber	Fiber	4838	0.027	2000/2000MBPS

Fixed Wireless Deployment Reporting Requirements

Describe the general design of the project and deployment plan and include the following:

- Explanation of the existing networks and equipment to be used for the project. If assets are owned by another entity, explain how they will be used for this project and, if applicable, provide a copy of the agreement between the applicant and the owner.
- Total number of miles of project infrastructure deployment, and the number of miles of project infrastructure deployment accounted for by preexisting infrastructure
- Detailed explanation of how the new or upgraded infrastructure will serve the prospective broadband recipients. In the case of the installation or upgrade of a specific site infrastructure, such as a vertical asset, the applicant must include:
 - Description and specific location of the vertical asset;
 - Owner of the vertical asset;
 - Number of prospective broadband recipients that will be served by that site infrastructure
 - The distance from the vertical asset to the end user(s) and the expected broadband speed that will be effectively delivered;
- Detailed description of the design work needed for deployment, such as, but not limited to, acquiring access to existing vertical assets, acquiring or updating easements, and/or property acquisition;
- Description and specific type of the equipment used for deployment and the capable speed of the equipment;
- Explanation of the frequency/frequencies to be utilized for the deployment, whether the deployment will use licensed or unlicensed technologies, as well as mitigation of line-of-sight challenges (which should correspond to the number of recipients to be served).

Fixed wireless deployment for this project will be carried out in “Get Connected Now” as cited previously and is targeted to be completed within (6) six months, serving 135 locations with a speed of 100/20 Mbps using fixed wireless where point-to-multipoint wireless connections are planned for the last mile by using the 5 GHz Tarana G1 platform with microwave backhaul being deployed using Aviat radios. ABB does not have any pre-existing network in the targeted area, and will be using the existing municipal water tanks and Conterra Monopole assets to provide the wireless services under this project to the prospective 135 broadband customers. For serving the last mile users, ABB will be using fixed-wireless technologies using the “Tarana G1” as base node equipment and “Tarana RN” node as CPE equipment. Single Tarana base node can support 2.4Gbps per BN. The targeted base speed is 100/20 Mbps. The backhaul network is connected with microwave links (PTP LOS connection). Aviat Radios are used for the backhaul connection. ABB’s last-mile wireless connections to the premises today use a point-to-multipoint wireless connection utilizing 5 GHz, and microwave backhaul connection with 80 GHz spectrum bands, Dual channel 80 GHz radio supporting 20 Gbps E-Band. The last mile is planned utilizing Tarana G1- 5 GHz (Unlicensed) spectrum which works in LoS and NLoS (Non-Line of Sight). The maximum distance reach for NLoS is up to 1.9 miles. Its range can extend up to 9.3 miles during LOS (Line-of Sight) reach. Each sector serves a maximum of 250 locations. Information about vertical assets and equipment is attached to this application.

Fixed Wireless Assets

Existing Network	Existing Equipment	New/Upgraded Infrastructure	Installation Type	Num of Recipients	Avg Distance in Miles Between Prospective Recipients	Expected Speed
Phase 1-Conterra existing monopoles and Pointe Coupee municipality water tank	Monopole and water tank	Tarana G1 with Microwave backhaul	Fixed Wireless	135	0.042	100/20

Budget

Budget

The project budget should reflect all eligible project costs to be funded through the GUMBO Grant Program. Additionally, the project budget should include the minimum provider funding match of at least 20%, any local government funding match from a parish, municipality, and/or school board, or any instrumentality thereof, and the requested GUMBO Grant Program funding.

Pointe Coupees parish president, Mr. Major Thibaut, has kindly agreed to provide Acadiana Broadband with the use of Point Coupees water towers. He has also generously provided us with the local match of \$250,000 to help fund Acadiana Broadbands' plan to provide high-speed broadband to Pointe Coupee.

Proof of Funding Availability

Provide a signed letter of funding availability from each source of funds committed for the project. If loan or other grant funds are pledged, a loan/grant commitment letter from each source of funds must be included. Should an applicant be an awardee of Universal Service, Connect American Phase II, Rural Digital Opportunity Fund, or other federal or non-federal funds for the deployment of broadband service, the applicant shall attest as to whether or not the applicant's GUMBO application and associated project's buildout is dependent upon such awarded funds.

Proof of funding is attached.