

Application to DHCD Submitted through CAMS

James City County

James City County / Verizon Last Mile Broadband 2023

Application ID: 95708122022081613
Application Status: Pending
Program Name: Virginia Telecommunication Initiative 2023 - Application
Organization Name: James City County
Organization Address: 101-A Mounts Bay
WILLIAMSBURG, VA 23185
Profile Manager Name: Vaughn Poller
Profile Manager Phone: (757) 253-6694
Profile Manager Email: vaughn.poller@jamescitycountyva.gov

Project Name: James City County / Verizon Last Mile Broadband 2023
Project Contact Name: Patrick Page
Project Contact Phone: (757) 253-6667
Project Contact Email: patrick.page@jamescitycountyva.gov
Project Location: 101F Mounts Bay Road
Williamsburg, VA 23185-6569
Project Service Area: James City County

Total Requested Amount: \$1,657,973.00
Required Annual Audit Status: Under Review

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$1,657,973.00	\$2,486,960.00	\$4,144,933.00
Construction	\$1,657,973.00	\$2,486,960.00	\$4,144,933.00
Total:	\$1,657,973.00	\$2,486,960.00	\$4,144,933.00

Budget Narrative:

James City County and Verizon are partnering to provide 764 passings at 646 properties internet services. This effort is to get the county closer to universal broadband benefitting all citizens. With help from VATI and the generous funding from Verizon we can get closer to this goal. Other funds provided by Verizon at 60% of the total cost.

Questions and Responses:

1. Project Description and Need

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

Answer:

Project areas were selected through a data review of FCC Broadband map data (dated June 2021) to determine areas not served in James City County. The County also consulted with Verizon regarding its knowledge of served areas. The County further has historical knowledge based on past interactions with other providers in the community, constituents, local businesses, and other sources. The largest number of unserved locations are in the western portion of the county. Many of these are individual homes with last mile needs at the end of rural roads. The new fiber routes proposed by Verizon will also serve future development for our growing community.

The design proposed by Verizon Virginia LLC (Verizon) addresses the 764 unserved and underserved addresses of the project area that James City County (the County) has asked Verizon to build to because they today do not have access to qualifying broadband. Verizon proposes to deploy 40 miles of new fiber that will provide qualifying broadband to all of these locations.

Verizon is ready to move forward with this project. Verizon was the first to build fiber optic broadband on a large scale, and now serves over 6 million broadband customers with its Fios service. Verizon is a Fortune 20 company, but still has a local project office on the ground in the County. There are more than 6,600 Verizon employees across the Commonwealth of Virginia. Their capacity to fully staff the project with experienced, skilled, and reliable people is unmatched. This project team's command of the regulatory environment enables the ability to anticipate and tackle problems - local, state or federal - efficiently and completely. The Verizon team, from engineering to planning and project management to construction, leads the industry, as do the personnel who will assist customers once broadband is built. The same is true for the selected subcontractors and consultants.

Attachment 1 -Project Area Map

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

Answer:

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. A review of the addresses yielded 723 passings of 25/3 or less bandwidth using Verizon ADSL (1.5/0.384), ViaSat Satellite (100/3), Hughes Network Systems Satellite (25/3), or VSAT Satellite (2/1.3). Satellite providers are available for service but not used as comparative service per VATI guidelines. The County has interacted with many of these providers over the years regarding their network construction on County roads and service to the community.

Verizon offers DSL and Fios services across parts of the County but does not offer any service meeting the requirements for "broadband" at the locations covered by this application. The proposed project areas are a natural fit with Verizon's existing infrastructure, requiring only an upgrade to facilities rather than new backbone build. As noted later in this application, Verizon's Fios broadband Internet access service, which is offered elsewhere in the Commonwealth of Virginia, and which we propose to deploy here, offers speeds starting at 300Mbps/300Mbps all the way up to its Gigabit Connection service, which supports 940Mbps downloads and uploads to 880Mbps. These speeds are well in excess of VATI requirements.

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

Answer:

There were no CAFII, ACAM, ReConnect or Community Connect programs found providing funds in the James City County area. There are RDOF funded areas primarily consisting of Cox Communications, Connect Everyone, LLC, and Space Exploration Technologies auction winners. Attachment 2 details the findings.

Attachment 2 – Documentation on Federal Funding Area

4. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 100/20 Mbps and with less than 25% service overlap within the project area for wireless projects and 20% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 3 – Documentation Unserved Area VATI Criteria.

Answer:

Terrestrial based providers in the project areas are identified using the Federal Communications Commission Fixed Broadband Deployment website. Each address was checked for reported service levels. As noted in response to questions 1 and 2, the County has experience with local providers and worked with Verizon to formulate the targeted proposal reflected in the application.

Using the passings data we calculated the number of passings with service levels greater than 25/3 equaling 41. Then we calculated the percentage of overlap by dividing the passings with service levels greater than 25/3 (41) by the total number of passings (764) to get an overlap percentage of 5.37%.

Attachment 3 – Documentation Unserved Area VATI Criteria

- 5.

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Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 4 – Passings Form.

- a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
- b. If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
- c. If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise . Describe the methodology used for these projections.
- d. If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
- e. Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

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a. Categorization of the data is based on addresses provided by Verizon matched to data in James City County GIS system.

Total Properties = 646

Total Passings = 764

Residential Passings = 637

Business Passings = 127

Non-Residential Passings = 0

Community Anchors = 0

b. Total Properties = 101

Total RDOF Passings = 174

Residential RDOF Passings = 156

Business RDOF Passings = 18

Non-Residential RDOF Passings = 0

Community Anchor RDOF Passings = 0

c. At this time, Verizon does not anticipate application of special construction costs to any of the 764 passings. As noted elsewhere in this application, with respect to locations with long driveways or setbacks, or that are otherwise not able to be served directly from the public right of way, Verizon will follow its standard practice, as set forth in its Product Guide online. Typically, this results in no construction charges for residential Fios Home Internet customers for extension of drops to long setback structures. With respect to new residential subdivisions, multi-tenant dwelling units, commercial development, and mixed-used business and residential development within or outside of the project area, Verizon will follow its standard practices for delivery of service and network extensions, including recovery of costs, as set forth in its standard Product Guide.

d. Not applicable. Please see the response to subsection C, preceding.

e. Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. A review of the addresses yielded 723 passings of 25/3 or less bandwidth using Verizon ADSL (1.5/0.384). ViaSat Satellite (100/3), Hughes Network Systems Satellite (25/3), and VSAT Satellite (2/1.3). Satellite providers are available for service but not used as comparative service per VATI guidelines.

Passings with 25/3 Mbps or less = 723

Note: No satellite-based companies were used in the calculations per VATI guidelines.

Attachment 4 – Passings Form

6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 5 – RDOF Awarded Areas Form in VATI Area

Answer:

Using the Rural Digital Opportunity Fund (RDOF) Phase I Results website each address was checked for inclusion in an RDOF area, and the Block Group ID & bidder company name were collected. When creating the RDOF maps for the project area(s) RDOF GIS data from the website was used as a backdrop to the address locations and visually verified to the RDOF area and the 2010 Census Block (referenced on the spreadsheet as the Block Group ID). There are 101 properties with 174 passings that makeup the RDOF list. Connect Everyone LLC (18 properties / 18 passings) and Cox Communications (83 properties / 156 passings) were determined to have RDOF auction areas within the project area(s).

Attachment 5 – RDOF Awarded Areas Form in VATI Area

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

Answer:

N/A

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

Answer:

The information in this section was provided by Verizon and describes in detail the existing Verizon infrastructure and the network infrastructure to be deployed by Verizon as part of this application.

Verizon currently provides copper-based and fiber-based services in the project area from its central offices named Toano, Williamsburg, and Yorktown Road, which house Verizon's equipment and are connected back across Verizon's network to the global Internet. The project would add network components including equipment in the three central offices used to provide fiber-based Internet services as well as fiber-optic cables extending from the central offices past each of the proposed 764 unserved locations. Verizon also would provide fiber drops and customer-premise equipment required to deliver service in response to an order from a customer. Verizon would provide the fiber drops and equipment at its cost, so they are not included in the project or the application.

The proposed network begins with the optical line terminal (OLT) in a local Verizon central office. Fiber optic cables will run along main feeder routes from the OLT toward the unserved locations. The fiber optic cables may be placed in underground conduit or attached to utility poles. Verizon's construction methods--aerial or underground--will vary by area and may depend on the availability of existing pole and conduit infrastructure and local requirements. The detailed budget provided by Verizon includes specific assumptions for the mix of aerial and underground placement methods for the proposed network. For underground spans of fiber, Verizon may place vaults, handholes, or ground-mounted cabinets to access the fiber at various points. For aerial routes, Verizon may place ground- or pole-mounted cabinets. Along and at the end of each feeder route, Verizon will place a passive optical splitter to connect each feeder fiber to up to 32 distribution fibers. There may be one or two splitters between the OLT and the customer. Distribution fiber cables terminate at fiber terminals placed in the public right of way on poles, cabinets, vaults, or handholes.

Once the build is completed, when a customer orders service, a fiber drop is run from the nearest terminal in the public right of way to the customer's location. An Optical Network Terminal (ONT) is placed at the exterior or interior of the customer location, depending on the precise design. The ONT terminates the optical signal from the OLT in the central office. The ONT enables connections using Category 5 or 6 inside wire to a broadband home router for Internet service. The router supports physical connections to devices in the home. Verizon Fios customers can rent or purchase a broadband router from Verizon, or provide their own. Routers obtained from Verizon, and most commercially available broadband routers, contain a Wi-Fi access point. The ONT also enables connections using RJ-11 cabling (for legacy voice services) and coaxial cable (for connection to existing cable inside wiring, if available).

For locations with long driveways or setbacks, or that are otherwise not able to be served directly from the public right of way, Verizon will follow its standard practice, as set forth in its Product Guide online. Typically, this results in no construction charges for residential Fios Home Internet customers for extension of drops to long setback structures. For new residential subdivisions, multi-tenant dwelling units, commercial development, and mixed-used business and residential development within or outside of the project area, Verizon will follow its standard practices for delivery of service and network extensions, including recovery of costs, as set forth in its standard Product Guide.

Additional information in Attachment 18 - Question Document with Charts Links and Images

See Attachment 19 – Optional for more information.

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9. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 100/20 Mbps. (up to 10 points)

Answer:

Verizon provides a wide range of Fios service offerings, which it continues to update and enhance. The most up-to-date information can always be found on Verizon's website. As noted in response to item 8, Fios is provided over a shared-bandwidth network, engineered, managed and maintained by Verizon. The technology to be deployed is GPON over FTTP, as noted elsewhere in this application. Backhaul circuits from the Verizon central office to the Internet are typically Ethernet or wavelength services, and are managed to ensure sufficient capacity during peak busy periods, as the same may change over time.

Verizon Fios Home Internet Plans

Verizon Fios Home Internet Plans are described in the marketing materials provided at <https://www.verizon.com/home/bundles/fios/>. Further information on those plans is provided below. (Pricing as of 6/16/2022. Subject to Change)

See charts in Attachment 18 - Question Document with Charts Links and Images

Service Offering Features Plan Perks Price Notes

Gigabit Connection Ideal for a virtually seamless entertainment experience.

Download speeds up to 940 Mbps

Upload speeds up to 880 Mbps (25x faster than cable providers)

Included w/plan:

Whole-Home Wi-Fi (\$20/mo. value)

Router rental included + Wi-Fi extender provided (if recommended/requested)

\$89.99 Per month w/Auto Pay

Router rental included in monthly service price. Wi-Fi extender included in monthly service price (if deemed necessary by technician or on customer request).

500 Mbps Great for multiple users, binge streaming and sharing large files.

Download speeds up to 500 Mbps

Upload speeds up to 500 Mbps

\$69.99

300 Mbps Stream and download movies, shows and photos.

Download speeds up to 300 Mbps

Upload speeds up to 300 Mbps

\$49.99

Fios Forward Discounted Plans (With ACP eligibility)

(See Attachment 19 – Option for more information)

Verizon's Fios Forward discounted plans (with ACP eligibility) are described at <https://www.verizon.com/home/fios-forward/>. Further information on those plans is provided below.

See charts in Attachment 18 - Question Document with Charts Links and Images

Gigabit Connection Ideal for a virtually seamless entertainment experience.

Download speeds up to 940 Mbps

Upload speeds up to 880 Mbps (25x faster than cable providers)

\$89.99 \$39.99 Per month w/Fios Forward + Affordable Connectivity Program

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500 Mbps Great for multiple users, binge streaming and sharing large files.

Download speeds up to 500 Mbps

Upload speeds up to 500 Mbps

\$69.99 \$14.99 Per month w/Fios Forward + Affordable Connectivity Program

(discounts may vary)

300 Mbps Stream and download movies, shows and photos.

Download speeds up to 300 Mbps

Upload speeds up to 300 Mbps

\$39.99 but FREE Per month w/Fios Forward + Affordable Connectivity Program (discounts may vary)

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

Answer:

James City County is seeking to achieve Universal Broadband Service by partnering with Verizon and focusing on the remaining known locations lacking service. In 2022 James City County applied for a VATI grant partnering with Cox Communications. Grant funding was not achieved primarily due to the high cost per passing due to last mile construction. Currently Verizon provides internet services to a limited number of neighborhoods and individuals in James City County. Customers seeking broadband connections in many areas of the county face high construction costs for last-mile construction. In some cases, provider networks are fragmented by a mix of old and new technologies with some not meeting services standards for modern internet use. From the review of passings with service below 25/3 it is apparent that copper-based Verizon ADSL is the only service available in some areas. Filling in the gaps with Ggigabit level from Verizon provides an opportunity.

Achieving Universal Broadband Service requires partnerships and up to date data to find the gaps. The partnership with Verizon helps to fill the gaps through shared data analytics and project planning. Service providers including Verizon and Cox Communication deem their customer information proprietary, and the County relies on their willingness to review request information to show progress toward universal broadband status. Other data available to the County includes the Federal Communications Commission Fixed Broadband Deployment website. The County expects that future requests would fall into the categories of last mile and fragmented construction. The county would look to partner with Verizon to fill any remaining gaps.

11. Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 10 points)

Answer:

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Verizon is ready to begin this project.

Verizon's preliminary review indicates that virtually all of the locations to be served in the project area are already serviceable from Verizon's existing copper network in the County, over which Verizon has provided voice and other services as an ILEC. This project will directly overlay those copper facilities with fiber in an FTTP architecture.

Cost-effective, timely, and efficient access to existing aerial infrastructure greatly increases the likelihood of a broadband project being completed on time. Verizon has established good working relationships with the power companies in the County and has arrangements in place to access their utility poles for Verizon's aerial facilities.

Verizon has extensive experience working with the Virginia Department of Transportation (VDOT). Knowledge of VDOT's permitting processes and solid working relationships with agency personnel, including the ability to escalate matters and brainstorm creatively to overcome obstacles, is an essential and highly desirable asset for any broadband network construction project that occupies VDOT right-of-way.

Verizon has the necessary arrangements in place with respect to equipment, supply chain, logistics, contract services, and regulatory compliance to complete the projects proposed in this application in the designated time frame. Verizon's fiber network expansion program adds on average more than 400k premises and over 5,000 route miles of new fiber to our network each year. It is these same time-tested and proven supply chain and related arrangements that will be leveraged to construct the network proposed in this application.

With respect to one of the key inputs--fiber optic cable and accessories--Verizon has a long-standing relationship with Corning and is including a letter evidencing Corning's willingness and intent to meet our requirements for fiber under its existing supply agreements with Verizon.

Verizon's labor force is in place, is stable, and has high rates of retention throughout Verizon - including the 6,600 Virginians already employed at Verizon. Verizon's large direct workforce of experienced, well-paid, represented employees live and work in the communities of the County and surrounding areas. Where needed, the contractors that work with Verizon are an established and stable group, whose members have a track record of long service prioritizing their work for Verizon and its customers.

The project management process that Verizon will use was developed as Verizon built tens of thousands of miles of FTTP network infrastructure around the U.S., beginning in 2005. The process is tested, proven and transparent.

Attachment 20 – Question Document with Charts Links and Images has an 18-month representative project schedule that gives a high-level layout of the activities described. The following points highlight key elements of the proposed Project Schedule:

An 18 month overall timeline. The project will proceed as seen in the Gantt chart below (Figure 1-1.).

Different colors on the chart are used to denote each phase.

The Fios Ordering/Installation Phase is not in the scope of this project--it is wholly dependent on customers actually placing orders for Fios service. But it is listed in the Gantt chart to demonstrate the point at which that will be possible. Completion of construction and availability of service ordering will be determined by a negotiated verification and acceptance process to be implemented between Verizon and the County.

Work does not begin on any phase of the project until the execution of a Broadband contract between Verizon and the County.

See charts in Attachment 18 - Question Document with Charts Links and Images

Attachment 8 – MOUMOA between Applicant Co-Applicant

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

Answer:

James City County has not received a VATI grant. James City County did receive funding under the "CARES Act Funding to Fast Track Broadband" in 2020. This project was completed and shows a status of closed.

13. Matching funds: Complete the funding sources table indicating the cash match and in-kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 - Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

Answer:

Verizon will provide 60% of the projected costs. Total projected costs are \$4.1M, so the amount provided by Verizon will be approximately \$2.46M in cash.

Attachment 9 – Funding Sources Table

Attachment 10 – Documentation of Match Funding

Attachment 11 – Prior Expended Match Form – "Not Needed"

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

Answer:

The County would provide any services our departments can render towards the goal of universal broadband status. Our Community Development department can assist with any local environmental or construction permitting necessary to complete construction. Our county utility authority James City Service Authority (JCSA) works closely with the Virginia Department of Transportation (VDOT) reviewing right-of-way permitting projects.

Verizon is committed to begin the work upon a successful award of the grant. Upon execution and acceptance from DHCD for these projects, Verizon is immediately prepared to begin activities. Verizon is excited to extend its existing internal FTTP build program to connect the rest of the unserved with its leading infrastructure on the East Coast. As noted earlier in this application, the Verizon Proposed Network design significantly leverages its embedded network plant in the County. Verizon also has existing relationships with the local electric utility and VDOT. Verizon has a 15+ year track record of successfully deploying its FTTP network solution and Fios service to millions of homes up and down the East Coast.

Verizon's Credo starts with the phrase--"We have work because our customers value our high-quality communications services." That dedication and commitment to our customers is reflected in everything we do. Verizon has been the incumbent telephone company in the County for decades and has long-standing relationships with customers throughout the County. We believe these relationships, our name recognition, and the strength of the Verizon brand, will help accelerate adoption of our award-winning Fios Internet services for homes and businesses reached through this project.

Verizon's range of services and pricing plans--including plans for low-income customers that result in free broadband service after application of the FCC's Affordable Connectivity Program subsidy--provide an option for every budget.

The Verizon proposal also leverages Verizon's relationship with Verizon Wireless. Customers can save even more by bundling their Fios Internet service with certain Verizon Wireless 5G data plans--this is an attractive option for customers who already subscribe to Verizon Wireless mobile service.

For those residents who live in houses and multi-tenant buildings that are owned, built, or managed by major local, regional, and national companies, Verizon has a team with responsibility for working with those landlords or

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management companies. The Verizon Enhanced Communities (VEC) team is specifically tasked with establishing and maintaining relationships with building owners, developers/builders, and property management companies. Through the VEC Value Program, our team will help the building owner, developer/builder, or management company actively promote Fios as a key amenity to all the residents or homeowners, and provide the dedicated, end-to-end support that will keep them happy for years to come. Verizon's marketing arrangements allow VEC personnel to work with the customer to develop marketing programs to drive residents to purchase our Internet services. VEC customers also have the option to enter into a bulk arrangement with Verizon as part of which VEC provides discounted prices off our Fios retail services for residents of the building or development. VEC has strong relationships with builders such as NVR/Ryan Homes, Lennar, Pulte Homes and other large, developed communities in Virginia, and looks forward to the possibility of strengthening existing relationships and forging new ones through the proposed Fios network expansion project in the County.

Because Verizon is an established provider, Fios customers benefit from a whole host of advanced capabilities and features:

Robust Firewall/Parental Controls. The Fios router is equipped with the latest Wi-Fi technology and has a robust firewall and parental control feature to give customers more control and security over their broadband experience.

Convenience. Fios Home Internet includes many convenient features. Multiple users can use the service simultaneously without sacrificing speed or bandwidth, even during peak hours.

Support. Verizon also provides professional installation services, and Fios service includes 24/7 technical support so customers can get answers when they need them.

CyberSecurity. Verizon is a recognized leader in cybersecurity. Verizon's Data Breach Investigative Report is an annual must-read for corporate and government CISOs, CSOs, CTOs, and CIOs. Verizon's global network security team has sensors deployed across our network, across America and around the world, and is always on the alert for the latest zero-day exploits and malicious activities. Verizon has relationships across industry and government that enable us to obtain the latest in threat intelligence. The cybersecurity countermeasures that Verizon's deploy on its backbone network to protect its business and government customers from hackers and other bad actors can benefit Fios customers whose services are connected to that same backbone network.

Privacy and an Open Internet. Verizon is strongly committed to customer privacy and to an open Internet, as evidenced by our Privacy Policy (<https://www.verizon.com/about/privacy/>) and Broadband Commitment (<https://www.verizon.com/broadbandcommitment>).

All of this, and more, will be brought to bear to maximize leverage and the success of the Verizon Project.

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

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

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

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

Answer:

a. Communication of project status to stakeholders is achieved by way of the county website, social media, and reports to the Board of Supervisors. The county website has news feeds, social media areas and links, and streaming video capabilities to get the word out. All media sources are available from the county's homepage. Web, Publications

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Management, and Video Services report to the Director of Information Resources Management, who reports to the county administrator. Social media is managed by the Communications Department whose director also reports to the county administrator. Reports to the Board of Supervisors are provided regularly by the county administrator and presentations by staff are provided during monthly business meetings at the request of the board.

Regarding Verizon's communications, before the project launch kickoff meeting, Verizon's Engineering and Construction Leadership will meet with the County's appointed project manager. Together they will review the proposed list of participants, a draft slide deck containing the agenda, schedule (phases, milestones, etc.), roles and responsibilities, the phases, and dependencies by Verizon on approvals, permitting, etc. When those items have been reviewed and approved by the County's project manager, the date and time of the kickoff meeting will be set, and the participants notified of both a virtual and on-site meeting requiring their attendance. The slide deck will be finalized based on the outcome of the initial meeting. Further project reporting will follow DHCD's requirements, as well as the reporting structure as dictated by the County's Board of Supervisors.

b. Verizon has well-established communications and marketing practices that will ensure that County residents are well-informed and up to date regarding

the construction of broadband infrastructure in the Project area;
the new Verizon Fios service that will be available to them;
how to obtain or modify that Verizon Fios service, and;
how to connect with Verizon to address their questions or customer service needs.

These efforts will include:

Advance notice of construction - Letters, door hanger, or other notice for residents of areas where construction will be taking place.

Web-based resources

Verizon/Fios page - general information about Fios service, plans and pricing and how to subscribe, including a "Check Availability" widget that will allow residents simply to enter their street address to determine whether Fios service has become available in their area.

Verizon's Fios Forward program- this page provides information about pricing for low income households, including the Fios Forward program which can leverage the federal ACP program to provide broadband internet service at no cost to qualifying households.

Digital Inclusion/Tech inclusion resources

General Information and Customer Service Resources

Coordination with County staff, including County communications staff regarding major developments, general status and other matters.

Marketing communications with the community and individual residents regarding the service that will become available to them.

Communications with existing customers about the availability of broadband.

c. James City County works closely with Williamsburg James City County Schools to assist with the broadband needs of students. Evidence of this was the joint identification of students needing broadband service during the COVID-19 pandemic. State CARES funding was used in 2020 to provide remote learning for students in need. The County currently promotes through social media posts federally funded discounts to service rates for students in need. The Williamsburg Regional Library also promotes broadband services and potential solutions for the disadvantaged and elderly in the community.

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Business communication is coordinated through the James City County Department of Economic Development. Businesses identified as underserved as well as those in proximity of services can be contacted by Economic Development. New business inquiries are provided contact information for utility services which includes communication-based services.

Verizon, for its part, is a leader in helping to address issues of digital literacy as part of its work to help bridge the Digital Divide.

For example, Verizon has established Citizen Verizon—its plan for economic, environmental, and social advancement. Through this program, Verizon is committing \$3B to build digital literacy by providing 10 million youths with digital access and skills training, 1M small businesses with resources to help them thrive in the digital economy, and to prepare 500,000 individuals for future jobs by 2030. Small businesses and residents can access specific information around these programs at <https://www.verizon.com/about/responsibility>.

In addition to enhanced connectivity, Verizon provides resources to students, parents, and teachers to support virtual learning activities. More specifically, Verizon has increased the scale of its education work with the STEM Activity Center, an online toolkit that provides STEM resources. These resources offer hands-on activities that students, teachers, and parents can leverage for remote and in-classroom learning created in partnership with non-profit partner Project Lead The Way, to help supplement at-home learning and to help with digital literacy.

Verizon has also built a credentialed teacher training program, created with education non-profit partner Digital Promise, focused on digital skills, remote learning, and digital coaching. Open to all educators across the country, including in the County, the courses will help teachers become more efficient and effective with technology integrated instruction to help them navigate digital learning and provide a better virtual learning experience for students. Information on these programs is available at CitizenVerizon.com/DigitalInclusion.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities.

Answer:

See charts in Attachment 18 - Question Document with Charts Links and Images

17. Project Budget and Cost Appropriateness

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

Answer:

Attachment emailed to VATI per special FOIA instructions.

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

- a. Total VATI funding request
- b. Number of serviceable units
(up to 125 points)

Answer:

James City County and Verizon are asking VATI for \$1,657,973 with a cost per property to the VATI of \$2,566. The total project cost per passing is \$2,170.

- a. \$1,657,973
- b. 764

19. **Commonwealth Priorities (Up to 50 points)**

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

- a. Businesses, community anchors, or other passings in the proposed project area that will have a significant impact on the locality or region because of access to broadband.
- b. Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program
- d. The co-applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
- e. The applicant's and co-applicant's efforts to promote broadband adoption, including, but not limited to: telehealth, smart farming, e-entrepreneurship, and distance learning.

Answer:

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a. The 127 identified business locations provide tax revenue to both James City County and the State of Virginia. Extension of broadband services to properties in the northwest and southeast areas of the county will be able to service established business /industrial parks. The county's Department of Economic Development will leverage the availability of these services to existing and new businesses.

b. Verizon also boasts various unique partnerships that assist with the objectives of the Commonwealth. Verizon has built a credentialed teacher training program, created with education non-profit partner Digital Promise, focused on digital skills, remote learning, and digital coaching. Open to all educators across the country, including in the County, the courses will help teachers become more efficient and effective with technology integrated instruction to help them navigate digital learning and provide a better virtual learning experience for students. Information on these programs is available at CitizenVerizon.com/DigitalInclusion.

Verizon is also a leader in creating opportunities for women. Despite tremendous strides toward greater gender equality and equity for women in the workplace, approximately 5.4 million jobs were lost by women in 2020 amid COVID-19. To help women re-enter the workforce and realize their career ambitions, Verizon and its partners launched Women's CoLab in October 2021, an initiative providing women with essential resources to help them achieve success in an increasingly digital economy. Information on this program is available at <https://www.verizon.com/about/news/verizon-brings-together-major-fortune-500-companieslaunch-womens-colab>.

There are additional partnerships that strengthen Verizon's stance as an industry leader, detailed in a letter as a part of Attachment 19 - Option.

c. Verizon is committed to helping ensure that all Americans have access to affordable, reliable broadband and are equipped with the appropriate skills to use it. As we explained in the Accelerating America white paper, Verizon believes that broadband networks are critical to our daily lives, allowing all to work from home, connect with loved ones, find jobs, educate children remotely, and get medical attention virtually. (See <https://www.verizon.com/acceleratingamerica>). Accordingly, this proposed project will provide broadband service to 765 locations across the County to support economic development by providing needed connectivity.

All parties are most interested in assisting low-income residents, particularly families with school age children, to afford internet service. Verizon provides pricing for internet service that is available for documented, qualified low-income residents through its Fios Forward program. The counties' respective broadband groups will work to identify these residents to assist in their access to broadband.

Additionally, Verizon has demonstrated efforts in Virginia promoting ACP as a two prong approach, working with local non-profits that have deep roots working with low-income residents and working with local government agencies such as the Department of Social Services and housing authorities. Verizon's Fios Forward program works in conjunction with ACP eligibility to provide our 300/300 Mbps base package for free to anyone who qualifies. Since most students in the County are already eligible for ACP, this should apply to a majority of the project area, as long as families have a student who attends County schools.

Verizon's multiple dwelling unit and door-to-door sales teams are actively signing up new ACP customers across Virginia. Working with ongoing Verizon community engagement efforts along with nonprofits and local governments, both sales teams are attending and hosting ACP signup events to reach potentially qualified customers. At these events, Verizon team members are able to assist customers in registering for ACP and signing up for new Verizon service at the ACP discounted rate. Verizon's community engagement and sales teams can coordinate efforts with the local government to host new signup events and attend large gatherings and events in the County in order to promote ACP to new eligible customers.

Answers to questions d and e can be found in Attachment 18 - Question Document with Charts Links and Images

Attachment 19 - Optional

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20. Additional Information

Please attach any letters of support from stakeholders. If the applicant is not a locality(s) in which the project will occur, please provide a letter of support from that locality.

Attachment 14 – Letters of Support.

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

Label Additional Attachments as:

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

Answer:

Attachment 19 - Optional contains the following:

ACP Offer information

Corning - Letter of support

Supply Chain Commitment Letter for VATI Application

Unique Relationship Letter for VATI Application

Verizon Additional Information

Verizon Value Offerings Document

Attachment 20 - Optional contains the following:

Question Document with Charts Links and Images

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Attachments:

Map(s) of project area, including proposed infrastructure

Attachment1ProjectAreaMap825202281847.pdf

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

Attachment2DocumentationofFederalFunding825202281926.pdf

Documentation that proposed project area is unserved based on VATI criteria

Attachment3DocumentationUnservedAreaVATICriteria825202282007.pdf

Passings Form (Use template provided)

Attachment4PassingsForm825202282055.pdf

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

Attachment5RDOFAwardedAreasForminVATIArea825202282132.pdf

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

Attachment8MOUMOAbetweenApplicantCoApplicant825202282300.pdf

Funding Sources Table (Use template provided)

Attachment9FundingSourceTable825202282350.docx

Documentation of Match Funding

Attachment10DocumentationofMatchFunding825202282439.pdf

Two most recent Form 477 submitted to the FCC or equivalent

Attachment15TwoMostRecentForm477SubmittedtotheFCCorEquivalent825202283838.pdf

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

Attachment16PointandPolygonShapefiles825202283949.zip

Optional

Attachment19Optional825202284056.pdf

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Optional

Attachment20QuestionDocumentwithChartsLinksandImages825202213546.pdf

Notes:

Thank you for the opportunity to assist our citizens with their broadband needs.



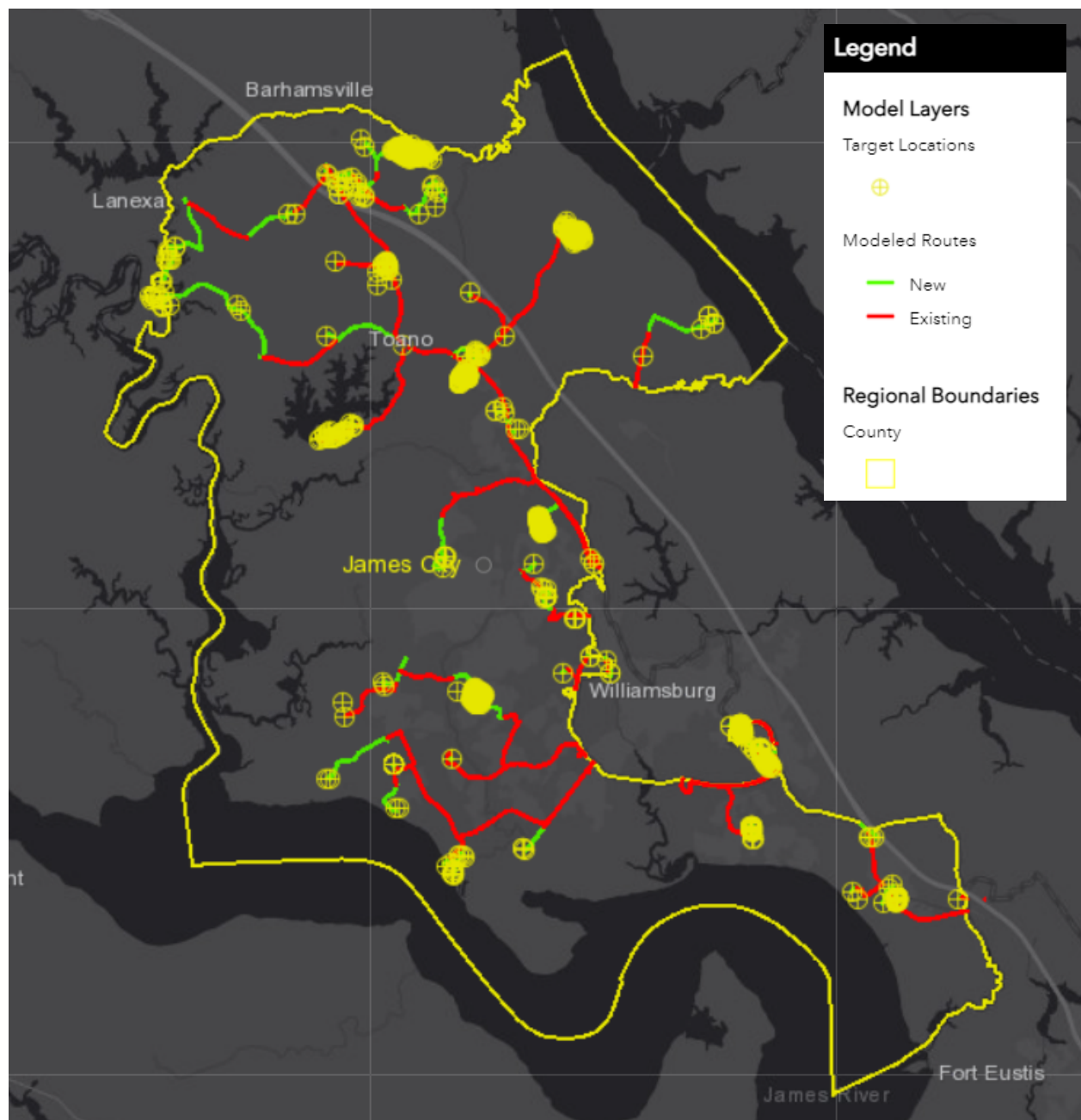
James City County Project Sites



0 5,000 10,000 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information and data obtained from various sources, and James City County is not responsible for its accuracy or how current it may be.
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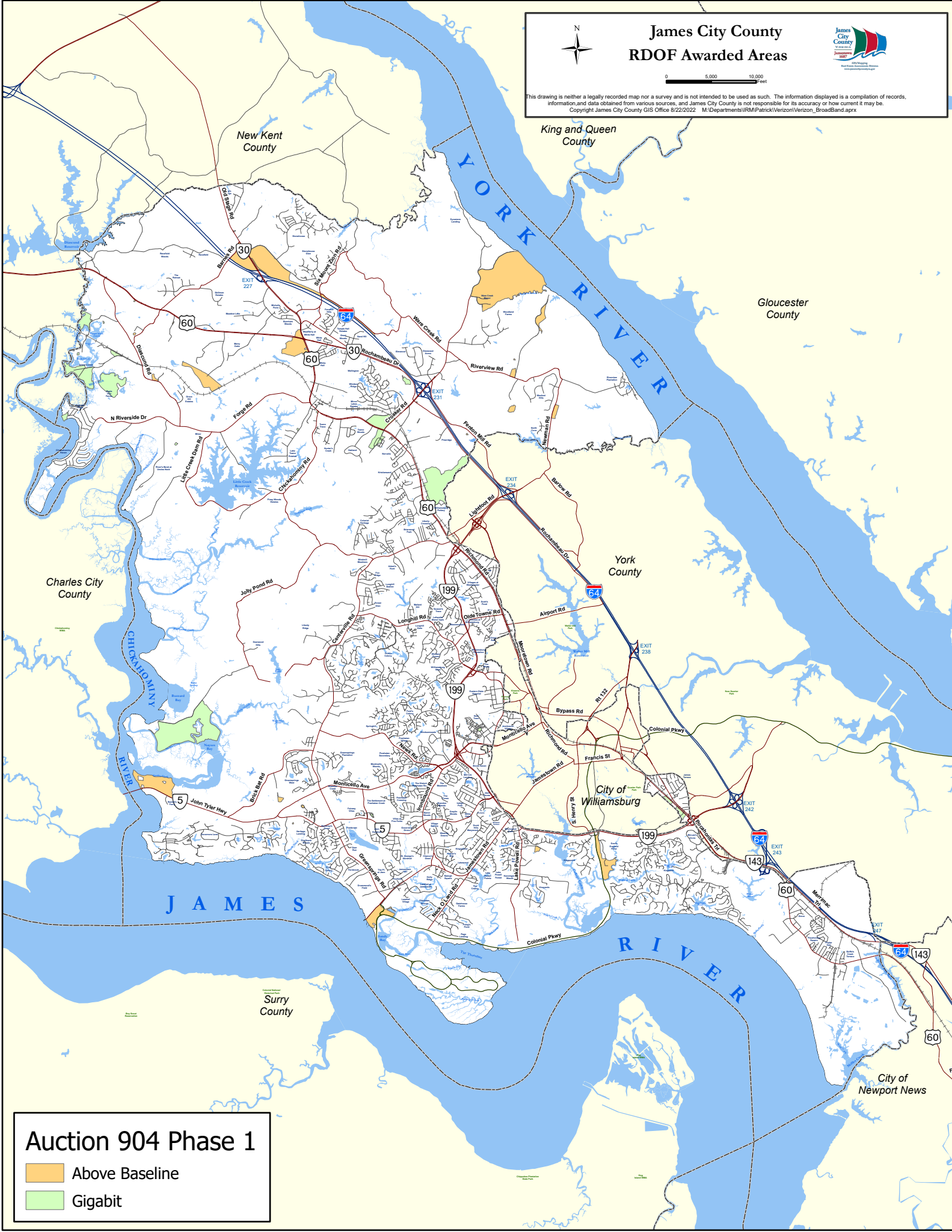


James City County RDOF Awarded Areas



0 5,000 10,000 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information and data obtained from various sources, and James City County is not responsible for its accuracy or how current it may be.
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Auction 904 Phase 1

- Above Baseline
- Gigabit

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
5406	AIRPORT RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
1899	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1958	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1960	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1961	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1964	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1965	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1968	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1969	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1970	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1973	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1975	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1976	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1981	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1982	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1983	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1984	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1986	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1987	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1989	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1991	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1992	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1993	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1994	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
1996	ALGONQUIN TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
117	ARGALL TOWN LN	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
119	ARGALL TOWN LN	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
701	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	0	1			
704	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0			
708	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0			
712	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0			
716	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0			
720	ARLINGTON ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	0	1			
8675	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
8687	BARHAMSVILLE RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8691	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
8695	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
8701	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
8703	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			

Street Number	Street Name	City	State	Zip	Total Number of Passings for				Community Anchor	RDOF (Y/N)	Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing					
8715B	BARHAMSVILLE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
102	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
103	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
104	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
105	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
106	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
107	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
108	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
109	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
110	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
111	BARLEY MILL PL	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
9238	BARNES RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
9240	BARNES RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3000	BATTERY BLVD	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0
288	BELLE AIRE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
3100	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3104	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3108	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3112	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3116	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3119	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3120	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
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3131	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3132	BENT TREE LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
101	BERKELEY TOWN RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
3743	BRICK BAT RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
3783	BRICK BAT RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
102	BURTON WOODS DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
104D	BURTON WOODS DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
500	CARRIAGE RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	0	1
5220	CENTER ST	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
208	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
212	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
216	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
218	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
220	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
222	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
224	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
225	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
226	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
228	CHARTER HOUSE LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
2641	CHICKAHOMINY RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3468	CHICKAHOMINY RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
25	CLAY CIR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1			
30	CLAY CIR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4001	COKES LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
350	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
1335	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
1348	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
1355	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
1919	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
2206	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
35	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
352	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
5501	COLONIAL PKWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
7605	CROAKER RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7725	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7726	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7727	CROAKER RD	WILLIAMSBURG	VA	23188	8	8	0	0	0	Y	0	8	0			
7729	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7730	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7731	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7733	CROAKER RD	WILLIAMSBURG	VA	23188	12	12	0	0	0	Y	0	12	0			
7734	CROAKER RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
9114	CROAKER RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9128	CROAKER RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9150	CROAKER RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9200	CROAKER RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
8155	DIASCUND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0			
9300	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
9310	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
9320	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
9340	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
9350	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			

Street Number	Street Name	City	State	Zip	Total Number of Passings for				Community Anchor	RDOF (Y/N)	Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing					
9354	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
9360	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
9370	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
9380	FIELDSTONE PKWY	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
10116	FIRE TOWER RD	TOANO	VA	23168	1	1	0	0	0	N	0	0	1
102	FIRST PATENT CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
103	FIRST PATENT CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
104	FIRST PATENT CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
105	FIRST PATENT CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
106	FIRST PATENT CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
573	FOREST LAKE RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	0	1
575	FOREST LAKE RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0
577	FOREST LAKE RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0
708	FOREST LAKE RD	LANEXA	VA	23089	1	1	0	0	0	Y	0	1	0
2526	FORGE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
4804	GLENCOE WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
4808	GLENCOE WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
2080	GREENSPRINGS RD	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0
108	GREENWAY CIR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1
54	GUNSTON CT	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
56	GUNSTON CT	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
58	GUNSTON CT	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
59	GUNSTON CT	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
60	GUNSTON CT	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0
8430	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	0	1
8438	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8651	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8653	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8655	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8659	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8811	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8815	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
8817	HICKS ISLAND RD	LANEXA	VA	23089	1	1	0	0	0	N	0	1	0
2206	JAMESTOWN RD	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0
2730	JAMESTOWN RD	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0
3900	JOHN TYLER HWY	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0
195	LAFAYETTE BLVD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	0	1
2400	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
2404	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
2416	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2450	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2496	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2564	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2566	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2568	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2570	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2576	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2584	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2598	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2602	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2604	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2610	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2620	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2650	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2654	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2660	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2718	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2722	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2726	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
2730	LITTLE CREEK DAM RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
4840	LONGHILL RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
4854	LONGHILL RD	WILLIAMSBURG	VA	23188	15	0	15	0	0	N	0	0	15			
4870	LONGHILL RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
5231	LONGHILL RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
5255A	LONGHILL RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
3504	LONGWOOD DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3508	LONGWOOD DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
4000	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4002	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4004	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4008	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4010	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4014	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4016	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4020	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4022	LUMINARY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
9001	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9005	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			

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9009	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9017	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9029	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9037	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9041	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9044	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9045	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9048	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9049	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9053	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9057	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9060	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9061	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9065	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9068	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9069	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9076	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9077	MARMONT LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4601	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4605	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4609	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4613	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4617	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4621	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4624	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4625	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4628	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4629	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4632	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4633	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4636	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4637	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4640	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4641	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4644	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4645	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4648	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4652	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4653	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			

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					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)	Special Construction				
4657	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4658	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4659	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4660	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4661	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4664	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
4665	MASSENA DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
7240	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7242	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0		
7244	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7246	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7248	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	0	1		
7250	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7252A	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7254	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7256	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
7260	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	0	1		
9393	MERRIMAC TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0		
9400	MILL POND RUN	TOANO	VA	23168	1	0	1	0	0	N	0	1	0		
9951	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9955	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9969	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9971	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9973	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9975	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9981	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9983	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9987	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9989	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9991	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
9999	MILL POND RUN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
1	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
10	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
11	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
12	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
13	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
14	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
2A	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		
3	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0		

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4	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
5	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
6	MONUMENT DR	WILLIAMSBURG	VA	23185	3	3	0	0	0	N	0	3	0			
7	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
8	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
9	MONUMENT DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
212	MOODYS RUN	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
213	MOODYS RUN	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
214	MOODYS RUN	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
3300	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3301	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3305	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3309	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3315	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3319	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3320	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3323	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3324	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3327	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3328	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3329	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3332	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3335	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3336	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3340	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3343	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3344	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3346	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3347	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3348	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3352	MORNING MIST LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9921	MOUNTAIN BERRY CT	TOANO	VA	23168	1	1	0	0	0	N	0	0	1			
3735	MULBERRY LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
319	NECK O LAND RD	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
325	NECK O LAND RD	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
329	NECK O LAND RD	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
7710	NEWMAN RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
3889	NEWS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4605	NEY CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
4609	NEY CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4613	NEY CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
101	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
102	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
103	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
104	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
105	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
106	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
107	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
108	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
109	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
110	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
111	OAK RIDGE CT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
100	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
101	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
102	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
103	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
104	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
106	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
201	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
202	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
203	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
204	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
205	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
206	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
207	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
208	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
209	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
210	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
211	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
212	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
213	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
214	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
215	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
216	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
217	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
218	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
219	OLD CART RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
9505	OLD STAGE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			

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9517	OLD STAGE RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
9689	OLD STAGE RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9701	OLD STAGE RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
5324	PALMER LN	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
5330	PALMER LN	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
2321	PATRIOTS COLONY DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1			
6927	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
7050	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
7155	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7259	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	Y	0	1	0			
7265	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7301	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7302	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7315	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7325	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7327	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7337	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7341	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7349	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7351	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7355	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7359	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7361	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
7363	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	0	1			
7381	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
7401	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	0	1			
7411	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
8499	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
8500	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
8514	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	0	1			
8766	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
8797	POCAHONTAS TRL	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
100	POWHATAN OVERLOOK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
104	POWHATAN OVERLOOK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
108	POWHATAN OVERLOOK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
6099	PRICKET RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	Y	0	0	1			
6100	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6102	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6106	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			

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6110	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6114	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6118	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6122	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6125	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6126	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6130	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6134	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6138	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6142	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6150	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6152	PRICKET RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
4715	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4723	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4727	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4731	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4735	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4739	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4743	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4747	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4751	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4755	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4759	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4760	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4763	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4764	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4767	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4768	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4771	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4772	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4775	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4776	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4779	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4780	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4783	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4784	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4787	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4788	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4791	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			

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4792	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4795	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4796	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4799	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4800	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4801	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4803	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4804	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4807	REGENTS PARK	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
5406	RICHMOND RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	0	1			
5520	RICHMOND RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
6906	RICHMOND RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
6918	RICHMOND RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
7101	RICHMOND RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
7151	RICHMOND RD	WILLIAMSBURG	VA	23188	17	0	17	0	0	N	0	17	0			
7567	RICHMOND RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
7575	RICHMOND RD	WILLIAMSBURG	VA	23188	1	0	1	0	0	Y	0	1	0			
8491	RICHMOND RD	TOANO	VA	23168	1	1	0	0	0	N	0	0	1			
8509	RICHMOND RD	TOANO	VA	23168	1	1	0	0	0	N	0	0	1			
8550	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8554	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8555	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8556	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8558	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	0	1			
8581	RICHMOND RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0			
8589	RICHMOND RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
8776	RICHMOND RD W	TOANO	VA	23168	1	1	0	0	0	N	0	0	1			
102	RIVERVIEW PLANTATION DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1			
124	RIVERVIEW PLANTATION DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
130	RIVERVIEW PLANTATION DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4006	ROCHAMBEAU DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
4402	ROCHAMBEAU DR	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
250	RON SPRINGS DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
300	RON SPRINGS DR	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0			
500	RUSTADS CIR	WILLIAMSBURG	VA	23188	1	0	1	0	0	N	0	1	0			
100	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
101	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
104	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			
108	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0			

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109	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
112	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
113	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
116	SANDY POINT RDG	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
3300	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3301	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3305	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3309	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3312	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3315	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3319	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3321	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3323	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3324	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3328	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3331	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
3332	SAWYER WAY	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
4301	SCONCE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0
3905	SHADY GROVE CIR	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
104	SHIELDS POYNT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
105	SHIELDS POYNT	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
9150	N	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
9250	SIX MOUNT ZION RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
9300	SIX MOUNT ZION RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
9400	SIX MOUNT ZION RD	TOANO	VA	23168	1	1	0	0	0	N	0	1	0
9550	SIX MOUNT ZION RD	TOANO	VA	23168	1	0	1	0	0	N	0	1	0
6204	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1
6216	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6220	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6224	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6228	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6232	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6236	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6240	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6244	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6248	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6252	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6256	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0
6260	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0

Street Number	Street Name	City	State	Zip	Total Number of Passings for							RDOF (Y/N)	Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor						
6264	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6268	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6272	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6276	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6280	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6284	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6286	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6288	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6291	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6295	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6296	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6299	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6303	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6307	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6311	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6315	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
6319	ST JOHNS WOOD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	1	0		
7524	TEALIGHT WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
7526	TEALIGHT WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
7528	TEALIGHT WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
7530	TEALIGHT WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
7536	TEALIGHT WAY	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
3100	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3101	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3104	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3105	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3108	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3109	TRAILWOOD LN	TOANO	VA	23168	1	1	0	0	0	N	0	1	0		
3901	TREYBURN DR	WILLIAMSBURG	VA	23185	12	0	12	0	0	N	0	12	0		
3903	TREYBURN DR	WILLIAMSBURG	VA	23185	1	0	1	0	0	N	0	1	0		
4100	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4102	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4106	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4108	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4110	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4114	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4116	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4118	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		
4120	VOTIVE	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0		

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
2510	W WHITTAKER CLOSE	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
9901	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9905	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9908	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9909	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9912	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9915	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9916	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9919	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9920	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9923	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9924	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9927	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9928	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9929	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9931	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9932	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9935	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9936	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
9940	WALNUT CRK	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3004	WHITTAKER ISLAND RD	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
100	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
100A	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
102	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
104	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
106	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
108	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
110	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
112	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
114	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
116	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
118	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
120	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
122	WICKRE ST	WILLIAMSBURG	VA	23185	2	2	0	0	0	N	0	2	0			
124	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
126	WICKRE ST	WILLIAMSBURG	VA	23185	2	2	0	0	0	N	0	2	0			
130	WICKRE ST	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
7436	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7440	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
7444	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7448	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7452	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7456	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7460	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7463	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7464	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7468	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7470	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	N	0	0	1			
7472	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7488	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	0	1			
7500	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7501	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7504	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7505	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7508	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7509	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7512	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7515	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7516	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7519	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7520	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7523	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7524	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7527	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7528	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7531	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7532	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7535	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7539	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
7543	WICKS RD	WILLIAMSBURG	VA	23188	1	1	0	0	0	Y	0	1	0			
3104	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3108	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3112	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3116	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3120	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3124	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3128	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3132	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			

Street Number	Street Name	City	State	Zip	Total Number of Passings for									Special Construction	25/3 or Less Services	Greater than 25/3
					Area	Residential Passing	Business Passing	Non-Residential Passing	Community Anchor	RDOF (Y/N)						
3136	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3142	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
3144	WINDY BRANCH DR	TOANO	VA	23168	1	1	0	0	0	N	0	1	0			
125	WISTERIA GARDEN DR	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
38	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
39	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
40	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
41	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
42	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
43	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
44	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
45	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
46	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
47	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
48	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
49	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
50	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
51	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
52	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
53	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
54	YEARDLEYS GRANT	WILLIAMSBURG	VA	23185	1	1	0	0	0	N	0	1	0			
7315	YORK ST	WILLIAMSBURG	VA	23185	1	0	1	0	0	Y	0	1	0			
					764	637	127	0	0		0	723	41			

Note. Overlap Percentage = (Greater than 25/3) / (Total Number of Passings for Area)

Overlap 5.37%

2023 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area ¹	Passings in the Project Area, without Special Construction Costs Required ²	Passings with Special Construction Costs budgeted in the Application ³	Number of Passings with Speeds at 25/3 or below in Project Area ⁴
Residential	637	637	0	620
Businesses (non-home based)	127	127	0	103
Businesses (home-based)	0	0	0	0
Community Anchors	0	0	0	0
Non-residential	0	0	0	0
Total	764	764	0	723

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

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

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

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

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

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

Definitions

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

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

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

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

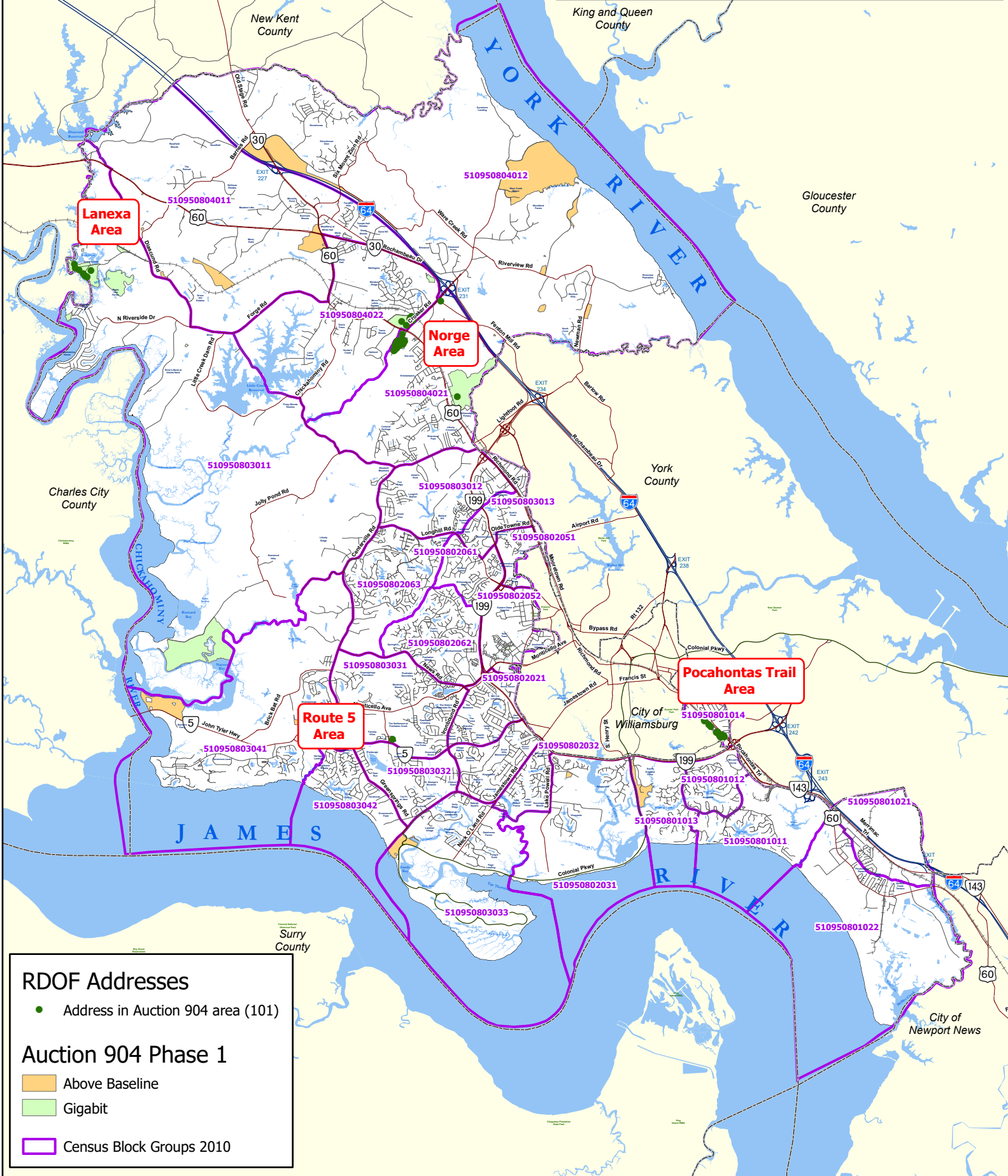


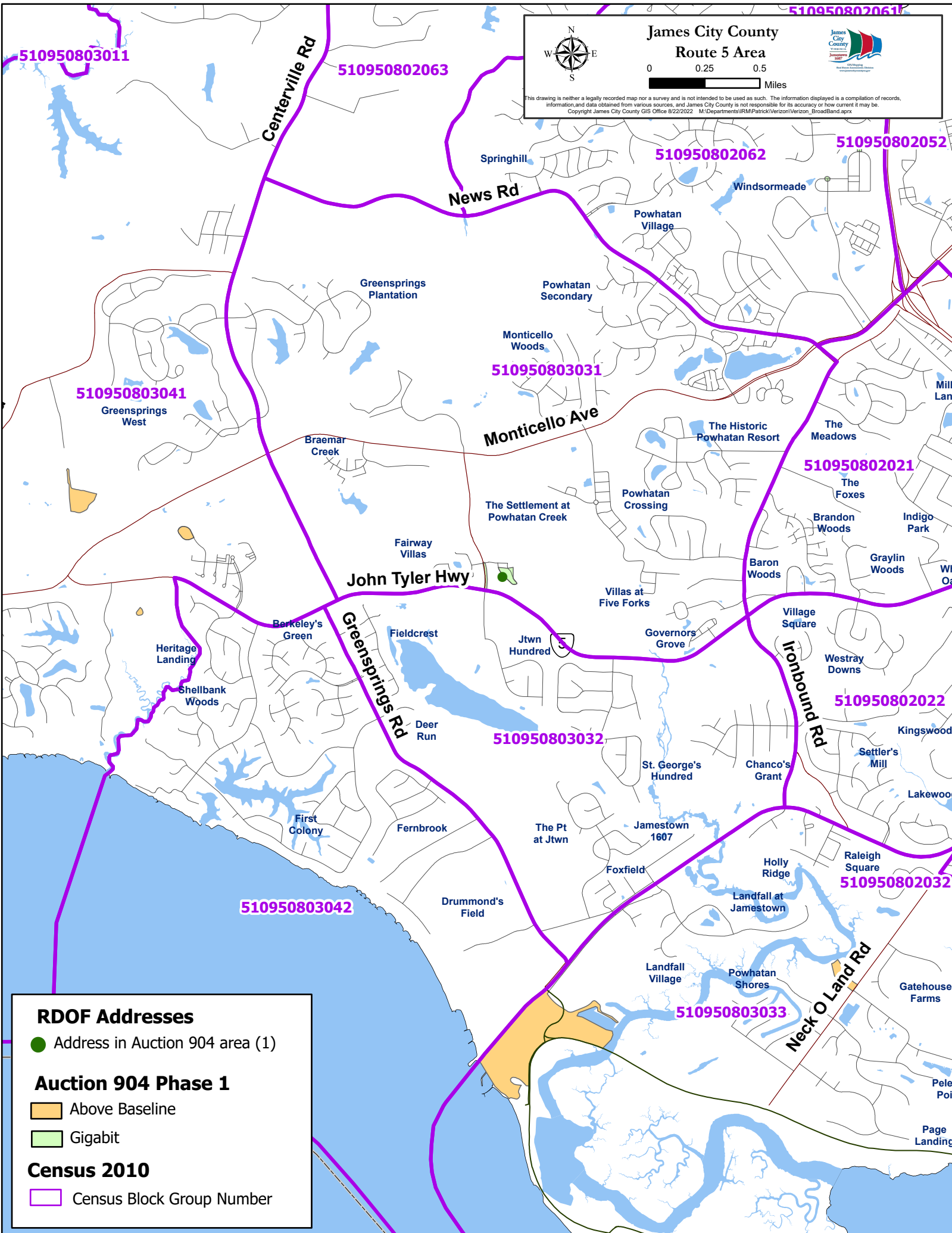
James City County Project Sites



0 5,000 10,000
Feet

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James City County

Route 5 Area

0 0.25 0.5

Miles

James City County

Virginia

Department of Planning and Economic Development

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RDOF Addresses

Address in Auction 904 area (1)

Auction 904 Phase 1

Above Baseline

Gigabit

Census 2010

Census Block Group Number

N

E

S

W

00.250.5

Miles

James City County
Lanexa Area

James City County

Virginia

1800

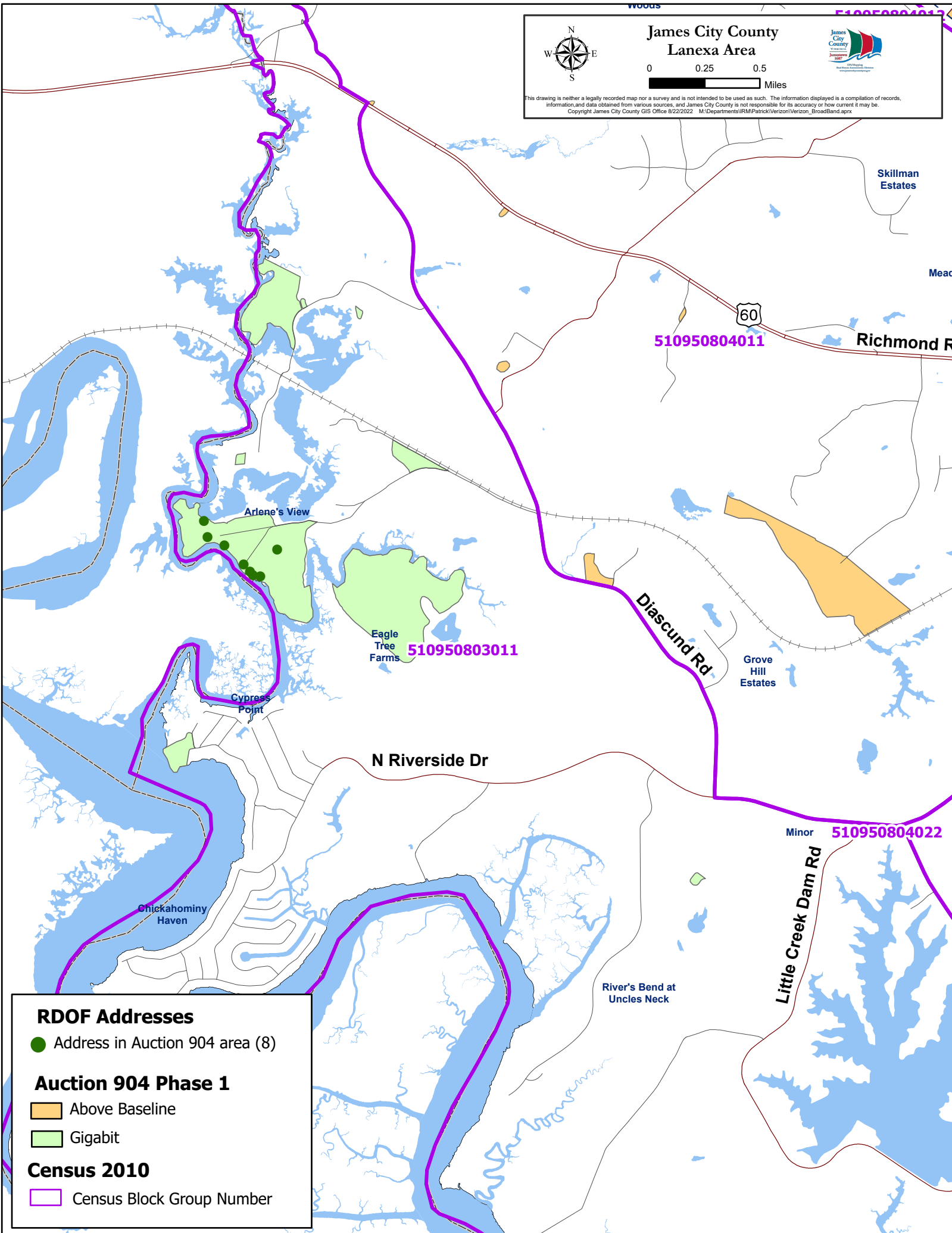
James City County

Virginia

1800

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RDOF Addresses

●

Address in Auction 904 area (8)

Auction 904 Phase 1

■

Above Baseline

■

Gigabit

Census 2010

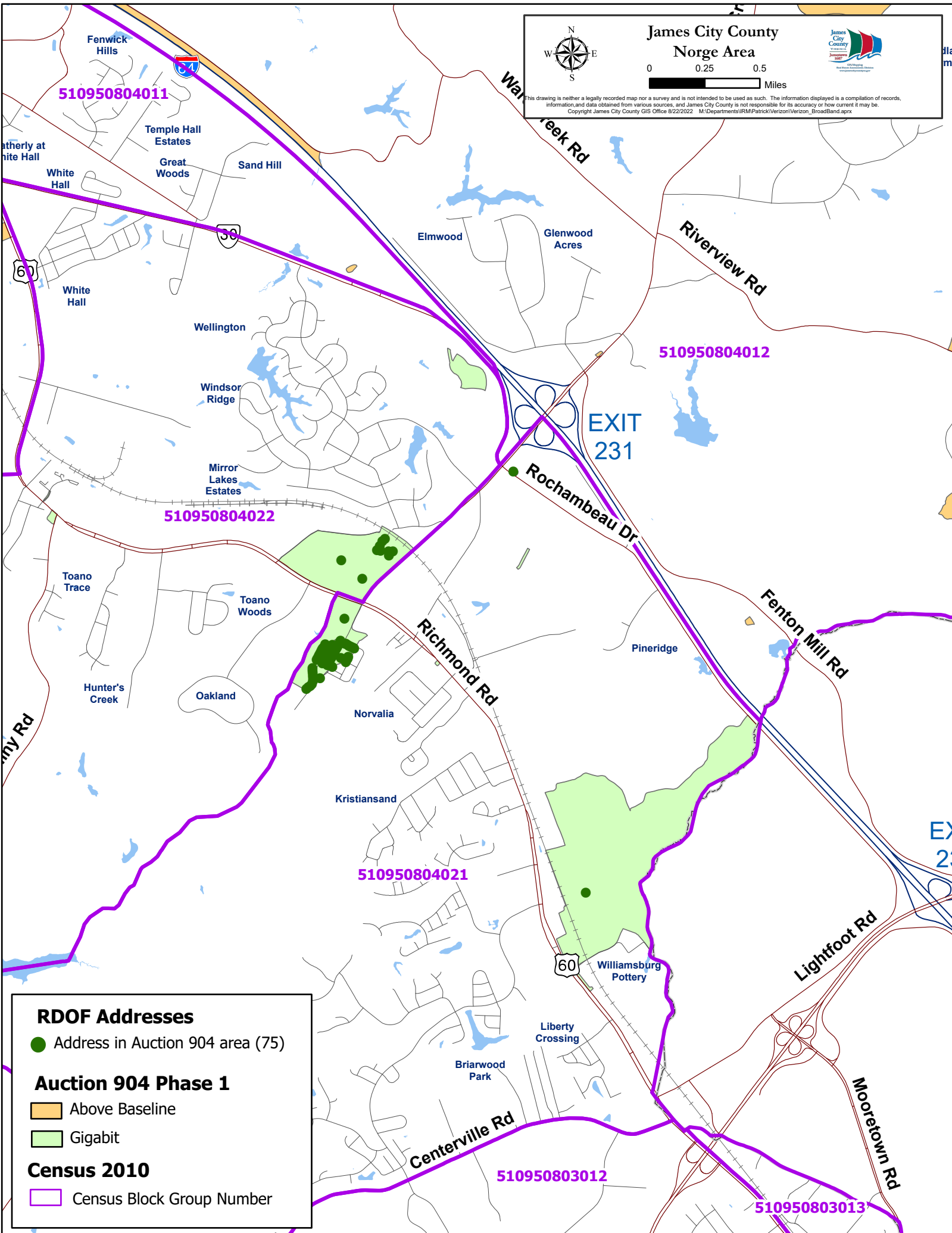
■

Census Block Group Number

James City County
Norge Area

0 0.25 0.5
Miles

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RDOF Addresses

Address in Auction 904 area (75)

Auction 904 Phase 1

Above Baseline

Gigabit

Census 2010

Census Block Group Number



James City County
Pocahontas Trail Area

0 0.25 0.5
Miles



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New Quarter Park

Rt. 132

Bypass Rd

Colonial Pkwy

Francis St

Merrimac Trl

James Terrace

Quarter Path Park

510950801014

S. Henry St

McLaws Circle

Pocahontas Trl

199

South England Point

510950801012

Kingspoint

Kingsmill

510950801013

510950801011

RDOF Addresses

- Address in Auction 904 area (17)

Auction 904 Phase 1

- Above Baseline
- Gigabit

Census 2010

- Census Block Group Number

Attachment 7 – Timeline Project Management Plan.

[illegible]

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") entered into on this 24th day of August, 2022, by and between Verizon Virginia LLC, located at 22001 Loudoun County Parkway, Ashburn, VA, 20147 hereinafter referred to as "Verizon", and the County of James City, Virginia, a political subdivision of the Commonwealth of Virginia, with an office at 101 Mounts Bay Road, Williamsburg, VA 23185, hereinafter referred to as the "County" (Verizon and County are collectively referred to as the "Parties"), for the purpose of establishing and achieving various goals and objectives relating to the project contemplated by the Parties.

WHEREAS, the Parties are desirous to enter into this Memorandum to set forth the working arrangements that both Parties agree shall be necessary to pursue their efforts to bring the Project to fruition;

MISSION

The Project is intended to provide the areas of the County with access to broadband Internet service ("Broadband"), in order to meet the future needs of residents and businesses in those areas of the County.

PURPOSE AND SCOPE

The Parties intend for this Memorandum to outline the structure for any binding contracts which the Parties may enter into in the future related to the Project.

OBJECTIVES

The Parties agree to work together to attempt to secure funding and establish policies and procedures that will promote and sustain a market for Broadband availability and intend to work toward delivering a product and/or services that meet or exceed business and industry standards.

RESPONSIBILITIES AND OBLIGATIONS OF THE PARTIES

The Parties agree to work together in good faith and collaboratively in an effort to bring the Project to successful completion. This Memorandum does not create any legal or equitable obligations or rights on the part of either Party and no such obligations or rights shall exist unless and until such time as the Parties may enter into a written agreement signed by both Parties.

SERVICES COOPERATION

The goal of the Project is to provide the following services in the areas of the County contemplated in the Project, which services include, but are not necessarily limited to:

Broadband Internet access services

Phase 1 (beginning after MOU execution): The Parties will work together to apply for Virginia Telecommunication Initiative (“VATI”) grant(s). The Parties anticipate that VATI guidelines will require contributions by Verizon and by the County as matching funds to secure a FY2023 VATI Grant through the Virginia DHCD. DHCD funding shall not exceed 80% of Project costs. The total budget for the Project is expected to be approximately \$5,940,391. Verizon agrees to provide a minimum match of \$3,564,235 in funding for the Project.

Phase 2 (beginning after Phase 1): Verizon will work with the County to continue Project planning and the Parties will seek additional State and local funding to expand the availability of Broadband service in the County.

TIMELINE

The above outlined scope and objective shall be contingent on the Parties’ ability to obtain the necessary funding required for the Project, as described in any applicable grant or business loan application. Responsibilities with regard to commencement and completion of the Project will be established in any future agreement between the Parties, and may coincide with the period specified in connection with any grants awarded in connection with the Project.

TERM

This MOU shall remain in effect, subject to the termination provisions in this MOU, up until the Parties mutually determine whether they are able to move forward with the Project.

If the Parties are successful in securing sufficient grant funding that they are both willing to move forward with the Project, then they agree to use good faith efforts to negotiate, execute and deliver a formal contract regarding the Project (“Project Agreement”). The Parties contemplate that a Project Agreement will contain terms and conditions, representations, warranties, covenants, and other provisions that are customary in service arrangements of the sort contemplated in this MOU. If the Parties are unable to agree on the terms and conditions of a Project Agreement within 60 days of receiving notice of the award of such grant funding, then either Party may give notice of the termination of this MOU. In that event, the Parties shall have no further obligations to each other under this MOU except for any obligations which are specifically provided to survive a termination of this MOU. This MOU does not create any legal or equitable obligations or legal rights.

AMENDMENT OR CANCELLATION OF THIS MEMORANDUM

This Memorandum may be amended or modified at any time in writing by mutual agreement of both Parties.

In addition, this MOU may be cancelled by either Party without cause on sixty (60) days advance written notice. This MOU may be terminated for cause, where cause for termination may include, but is not limited to, a material breach of any of the provisions contained herein, upon delivery of written notice of such termination to the other Party.

GENERAL PROVISIONS

The Parties acknowledge and understand that they must be able to fulfill their responsibilities under this MOU in accordance with the provisions of the law and regulations that govern their activities. Nothing in this Memorandum is intended to negate or otherwise render ineffective any such provisions or operating procedures. The Parties assume full responsibility for their performance under the terms of this Memorandum.

If at any time either Party is unable to perform its duties or responsibilities under this MOU consistent with such Party's statutory and regulatory mandates, the affected Party shall immediately provide written notice of such to the other Party and, if possible, establish a date for such performance.

LIMITATION OF LIABILITY

No rights or limitation of rights shall arise or be assumed between the Parties as a result of the terms of this MOU.

ARBITRATION/MEDIATION DISPUTE RESOLUTION

The Parties to this MOU agree that should any dispute arise regarding any aspect of their relationship or the Project, including, but not limited to, any matters, disputes or claims, the Parties shall confer in good faith to promptly resolve any such dispute. In the event that the Parties are unable to resolve the issue or dispute between them, then the matter shall be subject to non-binding mediation in an attempt to resolve any and all issues between the Parties.

The Parties agree that venue for any claim or dispute that arises from or through this MOU shall be in the state and Federal courts for James City County, Virginia.

NOTICE

Any notice or communication required or permitted under this MOU shall be sufficiently given if delivered in person or by certified mail, return receipt requested, to the address

set forth in the opening paragraph or to such address as one may have furnished to the other in writing.

GOVERNING LAW

This MOU shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia, exclusive of its conflicts of laws rules.

SEVERABILITY CLAUSE

In the event that any provision of this Memorandum shall be deemed to be severable or invalid, and if any term, condition, phrase or portion of this Memorandum shall be determined to be unlawful or otherwise unenforceable, the remainder of the Memorandum shall remain in full force and effect, so long as the clause severed does not affect the intent of the Parties. If a court should find that any provision of this Memorandum to be invalid or unenforceable, but that by limiting said provision it would become valid and enforceable, then said provision shall be deemed to be written, construed and enforced as so limited.

ASSIGNMENT

Neither Party may assign this Memorandum without the prior written consent of the non-assigning Party, whose approval shall not be unreasonably withheld or conditioned. Notwithstanding the foregoing, Verizon shall have the right to assign this MOU without the County's consent to any parent, subsidiary, affiliate, or any person, firm, or corporation that shall control, be under the control of, or be under common control with Verizon, or to any entity into which Verizon may have merged or consolidated or which purchases all or substantially all of the assets of Verizon.

ENTIRE UNDERSTANDING

This MOU reflects the entire understanding and agreement of the Parties pertaining to all matters contemplated hereunder.

MOU SUMMARIZATION

The Parties to this MOU have mutually acknowledged and agreed to the following:

- The Parties to this MOU shall work together in a cooperative and coordinated effort, and in a manner and fashion intended to bring about the achievement and fulfillment of the goals and objectives of the Project.
- It is not the intent of this MOU to restrict the Parties from their involvement in or participation with any other public or private individuals, agencies or organizations or opportunities.

- The Parties to this MOU shall mutually contribute and take part in any and all phases of the planning and development of the Project, to the fullest extent possible.
- This MOU is not a binding contract, and it is not the intent or purpose of this MOU to create any rights, benefits, obligations and/or trust responsibilities by or between the Parties.
- This MOU shall in no way hold or obligate either Party to supply or transfer funds to maintain and/or sustain the Project or the effort to bring it to fruition.
- Should there be any need or cause for the reimbursement or the contribution of any funds to or in support of the Parties' efforts relating to the Project, then such shall then be done in accordance with applicable Virginia laws, regulations and/or procedures, and any Project Agreement which the Parties may enter into in the future.
- In the event that it should become necessary to provide funding for the effort to develop the Project, then any such endeavor shall be addressed in a separate and mutually agreed upon written agreement signed by the Parties or their representatives, in accordance with applicable laws and regulations, and in no way does this MOU provide such right or authority or obligate any Party to provide any such funding.
- The Parties have the right to individually or jointly terminate their participation in this MOU provided that advanced written notice is delivered to the other Party as provided for herein.

[REMAINDER OF PAGE LEFT BLANK]

AUTHORIZATION AND EXECUTION

The signing of this Memorandum of Understanding does not constitute a formal undertaking, and as such it simply reflects the intentions of the Parties to undertake preliminary efforts to achieve the goals and objectives stated in this MOU.

IN WITNESS WHEREOF, the Parties hereto have set their hands as of the day and year first above written.

Verizon

By:

Title:

JAMES CITY COUNTY, VIRGINIA

By:

VATI FUNDING SOURCES TABLE

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

Source	Amount	%	Status
REQUESTED VATI	\$ 1,657,973	40	Pending
VERIZON	\$2,486,960	60	Secured
	\$		
	\$		
	\$		
	\$		
	\$		
TOTAL	\$ 4,144,933	100 %	



August 24, 2022

Patrick Page
Director of Information Resources Management
James City County
101 Mounts Bay Road
Williamsburg, VA 23185

Dear Mr. Page,

The purpose of this letter is to provide documentation regarding the matching cash funding contributions for the broadband project that James City County will propose to the Virginia Telecommunication Initiative ("VATI") program in its grant application.

The proposed project represents a joint initiative between Verizon and James City County. As indicated in our application, Verizon will provide approximately 60% of the projected costs. Total projected costs are \$4,144,933, so the amount provided by Verizon will be approximately \$2,486,960 in cash.

Should you have any questions regarding the information listed above, please do not hesitate to contact me.

Best regards,

A handwritten signature in blue ink, appearing to read "Lori Fountain".

Lori Fountain
Director of Broadband Strategy

Placeholder for Attachment 12 – Derivation of Costs (CONFIDENTIAL)

Verizon is a national internet service provider with significant expertise in project development and implementation costs. Additional documentation to support derivation of costs has been provided to the Department of Housing and Community Development under a FOIA exemption.

Placeholder for Attachment 13 – Documentation to Support Cost Estimates (CONFIDENTIAL)

Verizon is a national internet service provider with significant expertise in project development and implementation costs. Additional documentation to support cost estimates has been provided to the Department of Housing and Community Development under a FOIA exemption.

Form 477 Filing Summary

FRN:
0002073203

Data as of:
Dec 31, 2021

Operations:
ILEC

Submission Status:
Original - Submitted

Last Updated:
Feb 24, 2022 12:39
PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Verizon Virginia LLC
	Holding Company Name	Verizon Communications Inc.
	Filing Type	ILEC
	SAC ID	190233,190479,195040
	499 ID	803930,806307
Data Contact Information	Data Contact Name	Ian Dillner
	Data Contact Phone Number	(202) 515-2458
	Data Contact E-mail	ian.dillner@verizon.com
Emergency Operations Contact Information	Emergency Operations Name	Andis Kalnins
	Emergency Operations Phone Number	(908) 559-1123
	Emergency Operations E-mail	andis.i.kalnins@verizon.com
Certifying Official Contact Information	Certifying Official Name	Kathleen J Makas
	Certifying Official Phone Number	(908) 559-2855
	Certifying Official E-mail	kathleen.makas@verizon.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	VABB Deploy.txt	Feb 23, 2022 05:14 PM	94,149
Fixed Broadband Subscription	VABB Sub.txt	Feb 23, 2022 05:23 PM	11,931
Fixed Voice Subscription	VAVoice Sub Upload.txt	Feb 23, 2022 05:00 PM	2,427

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
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State	DBA Name	Technology	Blocks
Virginia	Verizon Virginia LLC	Asymmetric xDSL	61,142
		Optical Carrier/Fiber to the End User	33,007
Total			94,149

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Asymmetric xDSL	3,873	54,362	16,339	70,701
	Optical Carrier/Fiber to the End User	7,824	955,637	27,176	982,813
	Other Copper Wireline	228	0	9,723	9,723
	Symmetric xDSL	6	0	7	7
Total		11,931	1,009,999	53,245	1,063,244

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
0.384	0.384	0	303	303
0.512	0.512	0	853	853
0.768	0.128	240	71	311
0.768	0.768	0	3	3
1.000	0.384	5,980	1,222	7,202
1.500	0.128	15	35	50
1.500	0.384	29	141	170
3.000	0.768	36,063	7,898	43,961
3.000	1.000	661	17	678
4.000	4.000	0	5	5
5.000	0.768	33	1,757	1,790
5.000	2.000	24	0	24
6.000	6.000	0	4	4
7.000	0.768	8,621	4,082	12,703
10.000	1.000	12	3	15
10.000	2.000	935	1	936

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
10.000	10.000	0	378	378
15.000	1.000	3,369	1,130	4,499
15.000	2.000	28	0	28
15.000	5.000	1,578	22	1,600
15.000	15.000	1,909	3	1,912
20.000	5.000	1,107	2	1,109
20.000	10.000	465	6	471
20.000	20.000	6	0	6
22.000	22.000	0	10	10
25.000	15.000	250	5	255
25.000	25.000	5,888	315	6,203
30.000	5.000	1,163	30	1,193
35.000	35.000	54	23	77
50.000	10.000	3,040	132	3,172
50.000	20.000	11	11	22
50.000	25.000	51	2	53
50.000	35.000	8	9	17
50.000	50.000	27,365	813	28,178
75.000	35.000	61	3	64
75.000	75.000	94,550	2,742	97,292
100.000	100.000	238,277	18,679	256,956
150.000	35.000	0	19	19
150.000	150.000	16,437	3,940	20,377
300.000	65.000	76	0	76
300.000	300.000	9,730	5,717	15,447
500.000	500.000	245	39	284
940.000	880.000	551,718	2,820	554,538
Total		1,009,999	53,245	1,063,244

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	0.768	0.128	240	71	311

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	1.000	0.384	5,980	1,222	7,202
	1.500	0.128	15	35	50
	1.500	0.384	29	141	170
	3.000	0.768	36,063	7,898	43,961
	5.000	0.768	33	1,757	1,790
	7.000	0.768	8,621	4,082	12,703
	10.000	1.000	12	3	15
	15.000	1.000	3,369	1,130	4,499
Optical Carrier/Fiber to the End User	3.000	1.000	661	17	678
	5.000	2.000	24	0	24
	10.000	2.000	935	1	936
	10.000	10.000	0	91	91
	15.000	2.000	28	0	28
	15.000	5.000	1,578	22	1,600
	15.000	15.000	1,909	3	1,912
	20.000	5.000	1,107	2	1,109
	20.000	10.000	465	6	471
	20.000	20.000	6	0	6
	25.000	15.000	250	5	255
	25.000	25.000	5,888	315	6,203
	30.000	5.000	1,163	30	1,193
	35.000	35.000	54	23	77
	50.000	10.000	3,040	132	3,172
	50.000	20.000	11	11	22
	50.000	25.000	51	2	53
	50.000	35.000	8	9	17
	50.000	50.000	27,365	729	28,094
	75.000	35.000	61	3	64
	75.000	75.000	94,550	2,742	97,292
	100.000	100.000	238,277	10,498	248,775
	150.000	35.000	0	19	19
	150.000	150.000	16,437	3,940	20,377

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	300.000	65.000	76	0	76
	300.000	300.000	9,730	5,717	15,447
	500.000	500.000	245	39	284
	940.000	880.000	551,718	2,820	554,538
Other Copper Wireline	0.384	0.384	0	299	299
	0.512	0.512	0	853	853
	4.000	4.000	0	5	5
	6.000	6.000	0	4	4
	10.000	10.000	0	287	287
	22.000	22.000	0	10	10
	50.000	50.000	0	84	84
	100.000	100.000	0	8,181	8,181
Symmetric xDSL	0.384	0.384	0	4	4
	0.768	0.768	0	3	3
Total			1,009,999	53,245	1,063,244

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End User Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	578,415	198,205	376,891	365,788
Total	578,415	198,205	376,891	365,788

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Virginia	66,035	10,622
Total	66,035	10,622

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	Business/Govt.

State	Total	by Bundle		by Product Type		by Ownership	
		Sold w/ Internet	Sold w/o Internet	Consumer		Business/Govt.	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	578,415	243,886	334,529	51,817	146,388	306,673	73,537
Total	578,415	243,886	334,529	51,817	146,388	306,673	73,537

VG E 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
Virginia	578,415	578,415	0	0	33,040	0	0	545,375
Total	578,415	578,415	0	0	33,040	0	0	545,375

Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business/Govt.
Virginia	0	0	0
Total	0	0	0

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

State	Total	by End User Type		by Bundle		by Last-Mile Medium			
		Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	376,891	365,788	11,103	373,260	3,631	376,891	0	0	0
Total	376,891	365,788	11,103	373,260	3,631	376,891	0	0	0

Reminder:

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

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

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Form 477 Filing Summary

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0002073203

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Jun 30, 2021

Operations:
ILEC

Submission Status:
Original - Submitted

Last Updated:
Aug 19, 2021 12:43 PM

Filer Identification

Section	Field	Response
Filer Information	Company Name	Verizon Virginia LLC
	Holding Company Name	Verizon Communications Inc.
	Filing Type	ILEC
	SAC ID	190233,190479,195040
	499 ID	803930,806307
Data Contact Information	Data Contact Name	Ian Dillner
	Data Contact Phone Number	(202) 515-2458
	Data Contact E-mail	ian.dillner@verizon.com
Emergency Operations Contact Information	Emergency Operations Name	Andis Kalnins
	Emergency Operations Phone Number	(908) 559-1123
	Emergency Operations E-mail	andis.i.kalnins@verizon.com
Certifying Official Contact Information	Certifying Official Name	Radhika Poduri
	Certifying Official Phone Number	(703) 694-4440
	Certifying Official E-mail	radhika.poduri@verizon.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	VA BB Deploy.txt	Aug 19, 2021 12:12 PM	119,884
Fixed Broadband Subscription	VA BB Sub.txt	Aug 19, 2021 12:12 PM	15,440
Fixed Voice Subscription	VA Voice Sub Upload.txt	Aug 19, 2021 12:12 PM	2,800

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
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State	DBA Name	Technology	Blocks
Virginia	Verizon Virginia LLC	Asymmetric xDSL	81,786
		Optical Carrier/Fiber to the End User	38,098
Total			119,884

Fixed Broadband Subscription

Fixed Broadband Subscriptions by State, Technology and End User Type

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business/Govt.	Total
Virginia	Asymmetric xDSL	5,093	60,659	17,797	78,456
	Optical Carrier/Fiber to the End User	10,115	936,311	29,130	965,441
	Other Copper Wireline	217	0	9,727	9,727
	Symmetric xDSL	15	0	15	15
Total		15,440	996,970	56,669	1,053,639

Fixed Broadband Subscriptions by Bandwidths and End User Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
0.384	0.384	0	310	310
0.512	0.512	0	854	854
0.768	0.128	298	64	362
0.768	0.768	0	5	5
1.000	0.384	6,785	1,270	8,055
1.500	0.128	16	31	47
1.500	0.384	48	151	199
3.000	0.768	39,686	8,675	48,361
3.000	1.000	503	29	532
4.000	4.000	0	5	5
5.000	0.768	38	2,009	2,047
5.000	2.000	19	0	19
6.000	6.000	0	4	4
7.000	0.768	10,080	4,359	14,439
10.000	1.000	11	4	15
10.000	2.000	956	7	963

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
10.000	10.000	0	379	379
15.000	1.000	3,697	1,234	4,931
15.000	2.000	15	1	16
15.000	5.000	1,948	33	1,981
15.000	15.000	1,677	2	1,679
20.000	5.000	1,235	16	1,251
20.000	10.000	621	12	633
20.000	20.000	8	0	8
22.000	22.000	0	10	10
25.000	15.000	189	7	196
25.000	25.000	6,356	512	6,868
30.000	5.000	1,334	65	1,399
35.000	35.000	43	40	83
50.000	10.000	4,046	150	4,196
50.000	20.000	7	11	18
50.000	25.000	48	3	51
50.000	35.000	38	3	41
50.000	50.000	32,350	1,126	33,476
75.000	35.000	61	9	70
75.000	75.000	92,597	4,462	97,059
100.000	100.000	262,206	17,445	279,651
150.000	35.000	0	7	7
150.000	150.000	18,627	5,578	24,205
300.000	65.000	38	0	38
300.000	300.000	12,138	4,603	16,741
500.000	500.000	10,761	71	10,832
940.000	880.000	488,490	3,113	491,603
Total		996,970	56,669	1,053,639

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	0.768	0.128	298	64	362
	1.000	0.384	6,785	1,270	8,055

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	1.500	0.128	16	31	47
	1.500	0.384	48	151	199
	3.000	0.768	39,686	8,675	48,361
	5.000	0.768	38	2,009	2,047
	7.000	0.768	10,080	4,359	14,439
	10.000	1.000	11	4	15
	15.000	1.000	3,697	1,234	4,931
Optical Carrier/Fiber to the End User	3.000	1.000	503	29	532
	5.000	2.000	19	0	19
	10.000	2.000	956	7	963
	10.000	10.000	0	90	90
	15.000	2.000	15	1	16
	15.000	5.000	1,948	33	1,981
	15.000	15.000	1,677	2	1,679
	20.000	5.000	1,235	16	1,251
	20.000	10.000	621	12	633
	20.000	20.000	8	0	8
	25.000	15.000	189	7	196
	25.000	25.000	6,356	512	6,868
	30.000	5.000	1,334	65	1,399
	35.000	35.000	43	40	83
	50.000	10.000	4,046	150	4,196
	50.000	20.000	7	11	18
	50.000	25.000	48	3	51
	50.000	35.000	38	3	41
	50.000	50.000	32,350	1,042	33,392
	75.000	35.000	61	9	70
	75.000	75.000	92,597	4,462	97,059
	100.000	100.000	262,206	9,264	271,470
	150.000	35.000	0	7	7
	150.000	150.000	18,627	5,578	24,205
	300.000	65.000	38	0	38

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business/Govt.	Total
	300.000	300.000	12,138	4,603	16,741
	500.000	500.000	10,761	71	10,832
	940.000	880.000	488,490	3,113	491,603
Other Copper Wireline	0.384	0.384	0	300	300
	0.512	0.512	0	854	854
	4.000	4.000	0	5	5
	6.000	6.000	0	4	4
	10.000	10.000	0	289	289
	22.000	22.000	0	10	10
	50.000	50.000	0	84	84
	100.000	100.000	0	8,181	8,181
Symmetric xDSL	0.384	0.384	0	10	10
	0.768	0.768	0	5	5
Total			996,970	56,669	1,053,639

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End User Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	605,764	212,067	397,574	388,096
Total	605,764	212,067	397,574	388,096

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Virginia	69,646	13,925
Total	69,646	13,925

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		Business/Govt.	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	605,764	259,607	346,157	44,882	167,185	311,732	81,965

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Business/Govt.	
				& No PIC	& PIC	& No PIC	& PIC
Total	605,764	259,607	346,157	44,882	167,185	311,732	81,965

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
Virginia	605,764	605,764	0	0	34,603	0	0	571,161
Total	605,764	605,764	0	0	34,603	0	0	571,161

Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business/Govt.
Virginia	0	0	0
Total	0	0	0

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

State	Total	by End User Type		by Bundle		by Last-Mile Medium			
		Consumer	Business/Govt.	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	397,574	388,096	9,478	394,022	3,552	397,574	0	0	0
Total	397,574	388,096	9,478	394,022	3,552	397,574	0	0	0

Reminder: You must continue to use Census 2010 geographic codes in FCC Form 477.

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

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Form 477 Filing Summary

FRN: 0002073203 | Data as of: Dec 31, 2020 | Operations: ILEC | Submission Status: Original - Submitted | Last Updated: Mar 1, 2021 17:08:08

Filer Identification

Section	Question	Response
Filer Information	Company Name	Verizon Virginia LLC
	Holding Company Name	Verizon Communications Inc.
	SAC ID	190233, 190479, 195040
	499 ID	803930, 806307
Data Contact Information	Data Contact Name	Ian Dillner
	Data Contact Phone Number	(202) 515-2458
	Data Contact E-mail	ian.dillner@verizon.com
Emergency Operations Contact Information	Emergency Operations Name	Andis Kalnins
	Emergency Operations Phone Number	(908) 559-1123
	Emergency Operations E-mail	andis.i.kalnins@verizon.com
Certifying Official Contact Information	Certifying Official Name	Radhika Poduri
	Certifying Official Phone Number	(703) 694-4440
	Certifying Official E-mail	radhika.poduri@verizon.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	VA BB Deploy.txt	Mar 1, 2021 13:33:17	119916
Fixed Broadband Subscription	VA BB Sub.txt	Mar 1, 2021 17:05:40	15457
Fixed Voice Subscription	VA Voice Sub Upload.txt	Mar 1, 2021 16:06:55	2804

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Verizon Virginia LLC	Asymmetric xDSL	82010
		Optical Carrier/Fiber to the End User	37906
Total			119916

Fixed
Broadband
Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Virginia	Asymmetric xDSL	5160	68408	18970	87378
	Optical Carrier/Fiber to the End User	10065	919932	26271	946203
	Other Copper Wireline	218	0	9545	9545
	Symmetric xDSL	14	0	14	14
Total		15457	988340	54800	1043140

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	310	310
0.512	0.512	0	856	856
0.768	0.128	327	66	393
0.768	0.768	0	4	4
1.000	0.384	7868	1329	9197
1.500	0.128	19	31	50
1.500	0.384	47	136	183
3.000	0.768	44577	9240	53817
3.000	1.000	482	27	509
4.000	4.000	0	5	5
5.000	0.768	37	2147	2184
5.000	2.000	18	0	18
6.000	6.000	0	4	4
7.000	0.768	11442	4741	16183
10.000	1.000	13	2	15
10.000	2.000	943	7	950
10.000	10.000	0	364	364
15.000	1.000	4078	1278	5356
15.000	2.000	15	1	16
15.000	5.000	1797	30	1827
15.000	15.000	1774	2	1776
20.000	5.000	1296	15	1311
20.000	10.000	554	7	561
20.000	20.000	9	0	9

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
22.000	22.000	0	10	10
25.000	15.000	201	8	209
25.000	25.000	7141	511	7652
30.000	5.000	1166	58	1224
35.000	35.000	53	42	95
50.000	10.000	3400	125	3525
50.000	20.000	5	10	15
50.000	25.000	48	3	51
50.000	35.000	35	3	38
50.000	50.000	36284	1180	37464
75.000	35.000	65	8	73
75.000	75.000	103940	4674	108614
100.000	100.000	281054	15552	296606
150.000	35.000	0	8	8
150.000	150.000	21817	5891	27708
300.000	65.000	39	0	39
300.000	300.000	13866	3123	16989
500.000	500.000	11160	74	11234
940.000	880.000	432770	2918	435688
Total		988340	54800	1043140

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	0.768	0.128	327	66	393
	1.000	0.384	7868	1329	9197
	1.500	0.128	19	31	50
	1.500	0.384	47	136	183
	3.000	0.768	44577	9240	53817
	5.000	0.768	37	2147	2184
	7.000	0.768	11442	4741	16183
	10.000	1.000	13	2	15
	15.000	1.000	4078	1278	5356
Optical Carrier/Fiber to the End User	3.000	1.000	482	27	509

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	5.000	2.000	18	0	18
	10.000	2.000	943	7	950
	10.000	10.000	0	85	85
	15.000	2.000	15	1	16
	15.000	5.000	1797	30	1827
	15.000	15.000	1774	2	1776
	20.000	5.000	1296	15	1311
	20.000	10.000	554	7	561
	20.000	20.000	9	0	9
	25.000	15.000	201	8	209
	25.000	25.000	7141	511	7652
	30.000	5.000	1166	58	1224
	35.000	35.000	53	42	95
	50.000	10.000	3400	125	3525
	50.000	20.000	5	10	15
	50.000	25.000	48	3	51
	50.000	35.000	35	3	38
	50.000	50.000	36284	1096	37380
	75.000	35.000	65	8	73
	75.000	75.000	103940	4674	108614
	100.000	100.000	281054	7545	288599
	150.000	35.000	0	8	8
	150.000	150.000	21817	5891	27708
	300.000	65.000	39	0	39
	300.000	300.000	13866	3123	16989
	500.000	500.000	11160	74	11234
	940.000	880.000	432770	2918	435688
Other Copper Wireline	0.384	0.384	0	300	300
	0.512	0.512	0	856	856
	4.000	4.000	0	5	5
	6.000	6.000	0	4	4
	10.000	10.000	0	279	279

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	22.000	22.000	0	10	10
	50.000	50.000	0	84	84
	100.000	100.000	0	8007	8007
Symmetric xDSL	0.384	0.384	0	10	10
	0.768	0.768	0	4	4
Total			988340	54800	1043140

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	644678	230657	420435	412553
Total	644678	230657	420435	412553

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Virginia	76746	16524
Total	76746	16524

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
Virginia	644678	280715	363963	61385	169272	331109	82912
Total	644678	280715	363963	61385	169272	331109	82912

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
Virginia	644678	644678	0	0	36826	0	0	607852
Total	644678	644678	0	0	36826	0	0	607852

Fixed Voice Subscription (iVoIP)

Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt
Virginia	0	0	0
Total	0	0	0

All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	420435	412553	7882	417027	3408	420435	0	0	0
Total	420435	412553	7882	417027	3408	420435	0	0	0

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Form 477 Filing Summary

FRN: **0002073203** | Data as of: **Jun 30, 2020** | Operations: **ILEC** | Submission Status: **Revised - Submitted** | Last Updated: **Nov 9, 2020 17:28:41**

Filer Identification

Section	Question	Response
Filer Information	Company Name	Verizon Virginia LLC
	Holding Company Name	Verizon Communications Inc.
	SAC ID	190233, 190479, 195040
	499 ID	803930, 806307
Data Contact Information	Data Contact Name	Ian Dillner
	Data Contact Phone Number	(202) 515-2458
	Data Contact E-mail	ian.dillner@verizon.com
Emergency Operations Contact Information	Emergency Operations Name	Andis Kalnins
	Emergency Operations Phone Number	(908) 559-1123
	Emergency Operations E-mail	andis.i.kalnins@verizon.com
Certifying Official Contact Information	Certifying Official Name	Radhika Poduri
	Certifying Official Phone Number	(703) 694-4440
	Certifying Official E-mail	radhika.poduri@verizon.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	VA BB Deploy.csv	Nov 9, 2020 16:53:51	119814
Fixed Broadband Subscription	VA BB Sub - Revised.csv	Nov 9, 2020 17:26:39	15998
Fixed Voice Subscription	VA Voice Sub.csv	Nov 9, 2020 16:53:51	2798

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Virginia	Verizon Virginia LLC	Asymmetric xDSL	82088
		Optical Carrier/Fiber to the End User	37726
Total			119814

Fixed
Broadband
Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Virginia	Asymmetric xDSL	5524	75602	21149	96751
	Optical Carrier/Fiber to the End User	10244	894061	27541	921602
	Other Copper Wireline	213	0	9222	9222
	Symmetric xDSL	17	0	17	17
Total		15998	969663	57929	1027592

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.384	0.384	0	311	311
0.512	0.512	0	856	856
0.768	0.128	373	84	457
0.768	0.768	0	6	6
1.000	0.384	8837	1482	10319
1.500	0.128	42	37	79
1.500	0.384	76	183	259
3.000	0.768	48416	10282	58698
3.000	1.000	594	42	636
4.000	4.000	0	5	5
5.000	0.768	47	2407	2454
5.000	2.000	20	0	20
6.000	6.000	0	4	4
7.000	0.768	13068	5272	18340
10.000	0.768	18	0	18
10.000	1.000	6	4	10
10.000	2.000	1325	9	1334
10.000	10.000	0	366	366
15.000	1.000	4719	1398	6117
15.000	2.000	20	1	21
15.000	5.000	2127	38	2165
15.000	15.000	2407	2	2409
20.000	5.000	1793	21	1814
20.000	10.000	818	12	830

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
20.000	20.000	13	0	13
22.000	22.000	0	10	10
25.000	15.000	287	9	296
25.000	25.000	8277	707	8984
30.000	5.000	1588	69	1657
35.000	35.000	66	46	112
50.000	10.000	4250	146	4396
50.000	20.000	8	23	31
50.000	25.000	62	4	66
50.000	35.000	46	3	49
50.000	50.000	38426	1528	39954
75.000	35.000	91	12	103
75.000	75.000	108744	6309	115053
100.000	100.000	301118	13619	314737
150.000	35.000	0	5	5
150.000	65.000	1	0	1
150.000	150.000	23357	7709	31066
300.000	65.000	17	0	17
300.000	300.000	12581	1800	14381
500.000	500.000	1992	109	2101
940.000	880.000	384033	2999	387032
Total		969663	57929	1027592

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	0.768	0.128	373	84	457
	1.000	0.384	8837	1482	10319
	1.500	0.128	42	37	79
	1.500	0.384	76	183	259
	3.000	0.768	48416	10282	58698
	5.000	0.768	47	2407	2454
	7.000	0.768	13068	5272	18340
	10.000	0.768	18	0	18

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	10.000	1.000	6	4	10
	15.000	1.000	4719	1398	6117
Optical Carrier/Fiber to the End User	3.000	1.000	594	42	636
	5.000	2.000	20	0	20
	10.000	2.000	1325	9	1334
	10.000	10.000	0	85	85
	15.000	2.000	20	1	21
	15.000	5.000	2127	38	2165
	15.000	15.000	2407	2	2409
	20.000	5.000	1793	21	1814
	20.000	10.000	818	12	830
	20.000	20.000	13	0	13
	25.000	15.000	287	9	296
	25.000	25.000	8277	707	8984
	30.000	5.000	1588	69	1657
	35.000	35.000	66	46	112
	50.000	10.000	4250	146	4396
	50.000	20.000	8	23	31
	50.000	25.000	62	4	66
	50.000	35.000	46	3	49
	50.000	50.000	38426	1444	39870
	75.000	35.000	91	12	103
	75.000	75.000	108744	6309	115053
	100.000	100.000	301118	5937	307055
	150.000	35.000	0	5	5
	150.000	65.000	1	0	1
	150.000	150.000	23357	7709	31066
	300.000	65.000	17	0	17
	300.000	300.000	12581	1800	14381
	500.000	500.000	1992	109	2101
	940.000	880.000	384033	2999	387032
Other Copper Wireline	0.384	0.384	0	300	300

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	0.512	0.512	0	856	856
	4.000	4.000	0	5	5
	6.000	6.000	0	4	4
	10.000	10.000	0	281	281
	22.000	22.000	0	10	10
	50.000	50.000	0	84	84
	100.000	100.000	0	7682	7682
Symmetric xDSL	0.384	0.384	0	11	11
	0.768	0.768	0	6	6
Total			969663	57929	1027592

Fixed Voice Subscription

VGE Lines and VoIP Subscriptions by State and End-user Type

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Virginia	685057	250707	445206	438536
Total	685057	250707	445206	438536

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Virginia	79655	17861
Total	79655	17861

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
Virginia	685057	300640	384417	68869	181838	345618	88732
Total	685057	300640	384417	68869	181838	345618	88732

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
Virginia	685057	685057	0	0	39132	0	0	645925
Total	685057	685057	0	0	39132	0	0	645925

Fixed Voice
Subscription
(iVoIP)

Over-the-top VoIP Subscriptions by State and End-user Type

State	Total	Consumer	Business / Govt
Virginia	0	0	0
Total	0	0	0

All other VoIP Subscriptions by State, End-user Type, Bundle and Last-mile Medium

State	Total	by End-user Type		by Bundle		by Last-mile Medium			
		Consumer	Business / Government	Sold w/ Internet	Sold w/o Internet	FTTP	Coax	Fixed Wireless	Copper
Virginia	445206	438536	6670	441835	3371	445206	0	0	0
Total	445206	438536	6670	441835	3371	445206	0	0	0



August 24, 2022

Patrick Page
Director of Information Resources Management
James City County
101 Mounts Bay Road
Williamsburg, VA 23185

Dear Mr. Page,

I am writing to highlight some of the unique relationships that Verizon has with respect to the Commonwealth, key businesses in James City County, and County residents. We believe these relationships enhance Verizon's ability to execute on the proposed broadband network build and to successfully provide broadband service to the targeted locations.

Our Customers: Verizon's Credo starts with the phrase--"We have work because our customers value our high-quality communications services." That dedication and commitment to our customers is reflected in everything we do. Verizon has been the incumbent telephone company in James City County for decades and has long-standing relationships with customers throughout the County. We believe these relationships, our name recognition, and the strength of the Verizon brand, will help accelerate adoption of our award-winning Fios Internet services for homes and businesses reached through this project. Verizon's range of services and pricing plans--including plans for low-income customers that result in free broadband service after application of the FCC's Affordable Connectivity Program subsidy--provide an option for every budget. And customers can save even more by bundling their Fios Internet service with certain Verizon Wireless 5G data plans--this is an attractive option for customers who already subscribe to Verizon Wireless mobile service.

Our Infrastructure Arrangements: The predominant provider of electric utility service in James City County and across the proposed Verizon network is Dominion Power. Cost-effective, timely, and efficient access to existing aerial infrastructure greatly increases the likelihood of a broadband project being completed on time. Verizon has worked with Dominion to make joint-use of each company's pole assets for years, and our existing joint use agreement has been in place for over ten years.

State Agencies: As an operator of communications networks that criss-cross the Commonwealth, Verizon has extensive experience working with the Virginia Department of

Transportation (VDOT). Knowledge of VDOT's permitting processes and solid working relationships with agency personnel, including the ability to escalate matters and brainstorm creatively to overcome obstacles, is an essential and highly-desirable asset for any broadband network construction project that occupies VDOT right-of-way.

Local and National Builders, Developers and Property Managers: People live in houses and multi-tenant buildings, and many of those are owned, built, or managed by major local, regional, and national companies. The Verizon Enhanced Communities (VEC) team is specifically tasked with establishing and maintaining relationships with building owners, developers/builders, and property management companies. Through the VEC Value Program, our team will help the building owner, developer/builder, or management company actively promote Fios as a key amenity to all the residents or homeowners, and provide the dedicated, end-to-end support that will keep them happy for years to come. Verizon's marketing arrangements allow VEC personnel to work with the customer to develop marketing programs to drive residents to purchase our Internet services. VEC customers also have the option to enter into a bulk arrangement with Verizon as part of which VEC provides discounted prices off our Fios retail services for residents of the building or development. VEC has strong relationships with builders such as NVR/Ryan Homes, Lennar, Pulte Homes and other large developed communities in Virginia, and looks forward to the possibility of strengthening existing relationships and forging new ones through the proposed Fios network expansion project in James City County.

Best regards,

A handwritten signature in blue ink, appearing to read "Lori Fountain". The signature is fluid and cursive, with the first name "Lori" and last name "Fountain" clearly distinguishable.

Lori Fountain
Director of Broadband Strategy



July 26, 2022

To: Grant Review Committee
Re: Verizon Grant Application

Corning Incorporated is pleased to support Verizon in their pursuit of closing the digital divide across the United States. Since our two companies launched the fiber-to-the-home revolution nearly two decades ago, and by embracing a collaborative partnership, more than 18 million American homes have been passed by Verizon's high-speed fiber broadband with many more to come.

In accordance with existing supply agreements, Corning is prepared to meet Verizon's project requirements for fiber optic cable and connectivity solutions necessary for the deployment of Verizon's fiber-to-the-premise broadband networks.

Corning invented the world's first low-loss optical fiber more than 50 years ago, ushering in the telecommunications revolution and expanding the bandwidth of human potential. Our existing capacity and record investments in new manufacturing facilities enable us to stand ready to support this historic era of connecting all Americans to high-speed fiber broadband.

Sincerely,

A handwritten signature in dark ink, reading "Stephen C. Mitchell", is written over a thin horizontal line.

Stephen Mitchell

Senior Vice President, Carrier Networks

Corning Optical Communications

We build connections so the world can make them.



August 23, 2022

Patrick Page
Director of Information Resources Management
James City County
101 Mounts Bay Road
Williamsburg, VA 23185

Dear Mr. Page,

This letter shall serve as confirmation that Verizon has the necessary arrangements in place with respect to equipment, supply chain, logistics, contract services, and regulatory compliance to complete the projects proposed in this application in the designated time frame. Verizon's fiber network expansion program adds on average more than 400k premises and over 5,000 route miles of new fiber to our network each year. It is these same time-tested and proven supply chain and related arrangements that will be leveraged to construct the network proposed in this application.

Verizon has deep relationships across the global supply chain with a wide range of equipment manufacturers, vendors, and suppliers. We leverage these relationships to drive lower costs and higher quality for our customers. The scale of our sourcing activity enables us to maximize our ability to obtain necessary equipment and services even when supplies run tight.

With respect to one of the key inputs--fiber optic cable and accessories--Verizon has a long-standing relationship with Corning, and is including a letter evidencing Corning's willingness and intent to meet our requirements for fiber under its existing supply agreements with Verizon.

Our labor force is in place, is stable, and has high rates of retention throughout Verizon - including the 6,600 Virginians already employed at Verizon. Our large direct workforce of experienced, well-paid, represented employees live and work in the communities of the County and surrounding areas. Where needed, the contractors that work with Verizon are an established and stable group, whose members have a track record of long service prioritizing their work for Verizon and its customers.

Finally, Verizon already has in place the regulatory expertise to achieve compliance and adapt to changed circumstances.

Best regards,

A handwritten signature in blue ink, appearing to read "Lori Fountain". The signature is fluid and cursive, with the first name "Lori" and last name "Fountain" clearly distinguishable.

Lori Fountain
Director of Broadband Strategy

Get Free Fios Home Internet

Fios Forward makes home internet even more affordable for ACP customers.



FREE home internet with ACP and Fios Forward.

We're proud to keep people connected by participating in the FCC's Affordable Connectivity Program. Customers approved for the program, can get free Fios Home Internet with Verizon's Fios Forward discount. Qualifying households who sign up for this Fios Mix and Match plan can enjoy speeds of 300/300 Mbps for \$0/mo.

Start here to learn more:
verizon.com/fiosforward

Fios Mix and Match Internet for

\$0/mo

300/300 Mbps internet speeds

- No annual contract
- No data caps
- No bill surprises
- Deposit waived
- No taxes and fees
- No equipment charges
- Autopay not required

verizon.com/fiosforward

Affordable Connectivity Program (ACP) is a government program providing eligible households with internet service discounts. One program discount per household. Limited-time offer for eligible residential customers signing up for a Fios Mix & Match internet plan. May not combine with all offers. Fios Mix & Match available in select areas. Wired speeds advertised. Wireless speeds may vary due to device limits, multiple users, network & other factors. See verizon.com/yourspeed for more info. © 2022 Verizon. 9676_0322 •

Creating the networks that move the world forward.



The 2021 acquisition of TracFone Wireless Inc. positions Verizon as the leading pre-paid, value, and premium wireless carrier by expanding Verizon's portfolio, bringing enhanced access to its industry-leading wireless network and comprehensive suite of mobility products and services. Other TracFone brands, including Straight Talk Wireless and Total Wireless, among others, along with Verizon's Visible brand offer additional value plans for every family and budget.

Affordable Mobile Plans using Verizon's Nationwide Network

	Connection	Single Line Starting Price*	With ACP Credit*	With Lifeline Credit*	With ACP & Lifeline Credit*
SafeLink	4G LTE & 5G Nationwide**	Pre-paid service	Free unlimited talk / text, 10 GB data / month	Free 350 voice minutes, unlimited texts, 4.5 GB data / month	Free unlimited talk/text, 25 GB data / month, 5 GB hotspot data
Verizon	5G Nationwide**	\$35 / month per line with auto pay & paperless billing, unlimited data	\$5 / month per line with auto pay & paperless billing	\$25.75 / month per line with auto pay & paperless billing	Free with auto pay & paperless billing

Affordable Home Internet

Verizon Home Internet plans are now even more affordable for qualifying households with Fios Forward, 5G Home Internet and LTE Home Internet.

	Speed	With ACP Credit*	General Rate*
Fios Forward	300 Mbps; no data cap	Free including router at no charge	\$25 / month with wireless bundle†, auto pay & paperless billing
5G Home Internet	5G Ultra Wideband; no data cap	Free with wireless bundle†, auto pay & paperless billing	\$25 / month with wireless bundle†, auto pay & paperless billing
LTE Home Internet	4G LTE; no data cap	Free with wireless bundle†, auto pay & paperless billing	\$25 / month with wireless bundle†, auto pay & paperless billing

Sign up for ACP with Verizon at
<https://www.verizon.com/home/promo/affordable-connectivity-program/>



*Does not include taxes, fees or router charges. The Affordable Connectivity Program (ACP) is limited to one monthly service discount per household.

**With 5G enabled phone.

† With 5G Play More, Do More or Get More plan

Prices as of 6.15.2022



The Affordable Connectivity Program

The Affordable Connectivity Program (ACP) was created by Congress and implemented by the Federal Communications Commission (FCC) to assist eligible households to pay for internet services. The ACP will provide assistance to customers needing to connect to jobs, healthcare, and virtual classrooms.

Ways in which households can qualify for ACP:

- Household income
- Participation in certain government assistance programs
- Participation in Lifeline

Income

You are eligible for the ACP if your income is 200% or less than the Federal Poverty Guidelines. The guideline is based on your household size and state.

Participation in certain government assistance programs

You are eligible for the ACP if you (or someone in your household) participate in one of these programs:

- Supplemental Nutrition Assistance Program (SNAP), formerly known as Food Stamps
- Medicaid
- Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)
- Supplemental Security Income (SSI)
- Federal Public Housing Assistance (FPHA)
- Veterans Pension and Survivors Benefit
- Free and Reduced-Price School Lunch Program or School Breakfast Program, including at U.S. Department of Agriculture (USDA) Community Eligibility Provision schools
- Received a Federal Pell Grant in the current award year

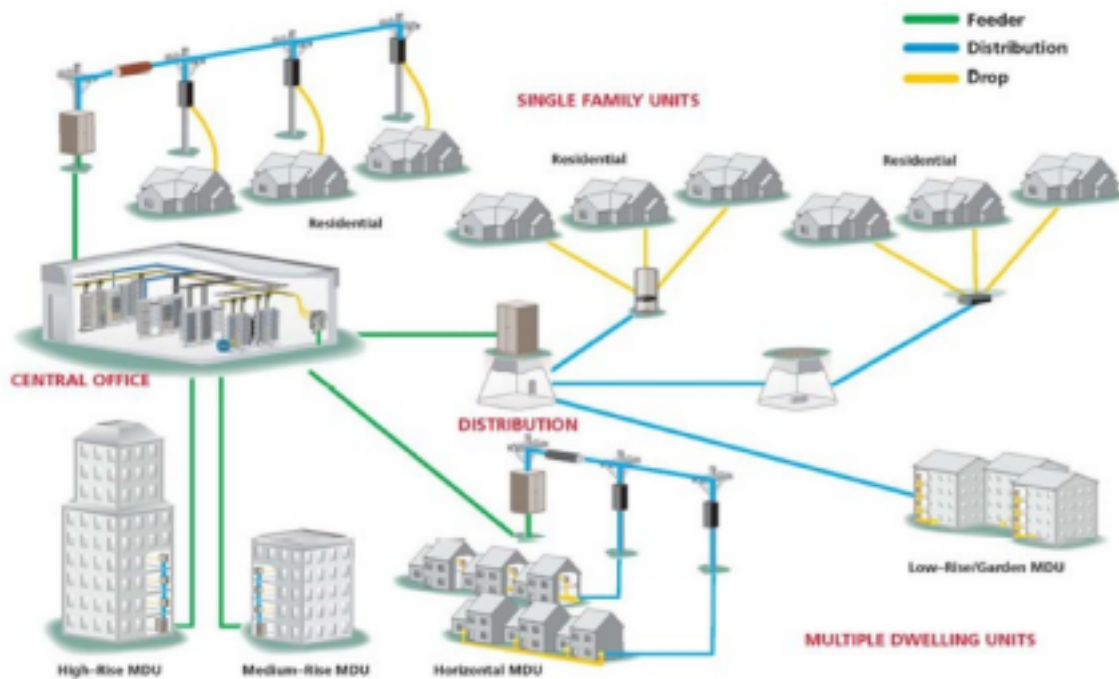
Qualify Through Your Child or Dependent

Any member of your household can make your household eligible if they participate in one of the programs above. For example, if your child or dependent participates in the Free and Reduced-Price School Lunch Program or is enrolled in a USDA Community Eligibility Provision school, your household qualifies for the ACP benefit.

To learn more or enroll in ACP, visit www.affordableconnectivity.gov

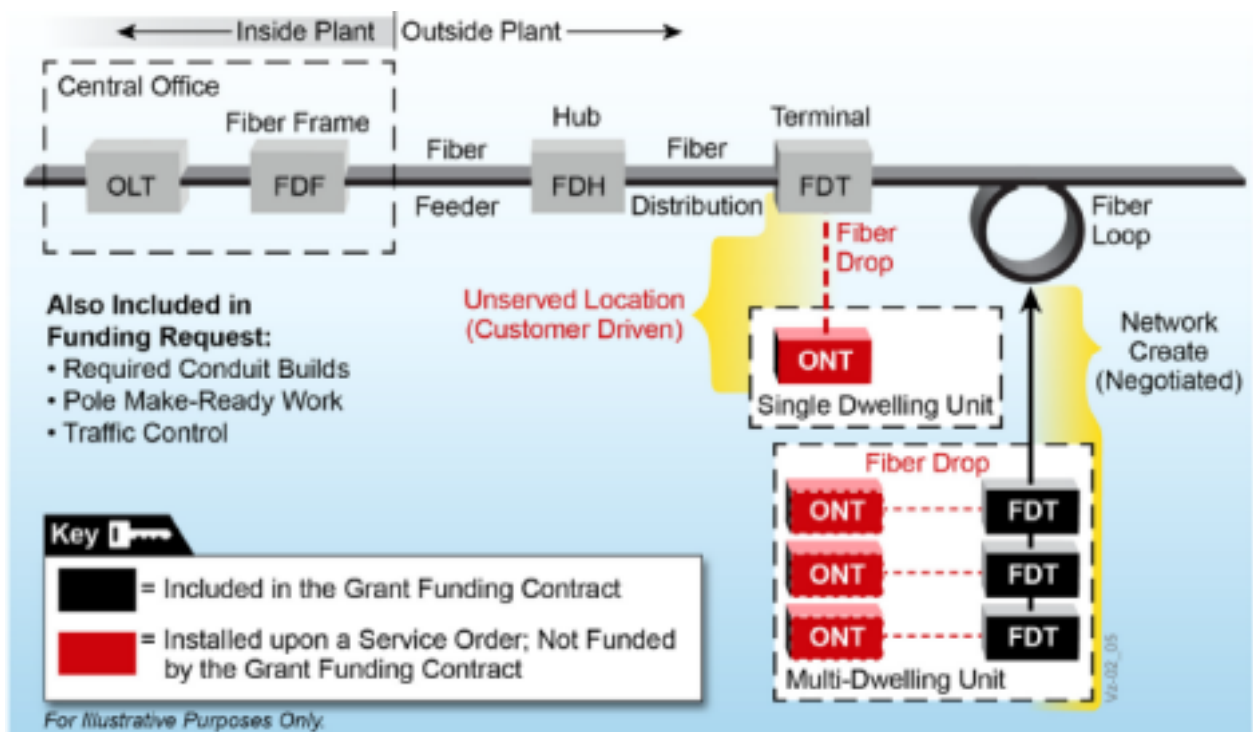


Verizon Network Reference Architecture Diagrams



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FTTP Distribution



ISP/OSP Funded Components

Other Benefits of Working with Verizon on a Broadband Expansion Project*Supply Chain*

Verizon has deep relationships across the global supply chain with a wide range of equipment manufacturers, vendors, and suppliers. We leverage these relationships to drive lower total deployment costs and higher quality for our customers. The scale of our sourcing activity enables us to maximize our ability to obtain necessary equipment and services even when supplies run tight.

Workforce

Verizon's workforce will perform fiber placement, splicing and testing work on this project as well as Fios Home Internet installations. Verizon provides this workforce with excellent employee benefits like medical, dental, life insurance, disability, and access to a 401(k) with a company match. In addition, these employees have generous paid time off available to them as well as the ability to take advantage of several other benefits like tuition assistance, an employee assistance plan and robust training/development programs.

Cybersecurity

Verizon is a recognized leader in cybersecurity. Verizon's Data Breach Investigative Report is an annual must-read for corporate and government CISOs, CSOs, CTOs, and CIOs. Verizon's global network security team has sensors deployed across our network, across America and around the world, and is always on the alert for the latest zero-day exploits and malicious activities. Verizon has relationships across industry and government that enable us to obtain the latest in threat intelligence. The cybersecurity countermeasures that we deploy on our backbone network to protect our business and government customers from hackers and other bad actors can benefit our Fios customers whose services are connected to that same backbone network.

Sustainability

As reported in Verizon's Task Force on Climate-related Financial Disclosures (TCFD) report, Verizon's fiber-delivered broadband services are at least 100 times more efficient on a kilowatt hour (kWh) per gigabyte basis than copper delivered broadband services. For more information, see the ERM Certification Verification Services Independent Assurance Statement at:

(<https://www.verizon.com/about/sites/default/files/Verizon-2021-Energy-Comparison-Analysis.pdf>).

Wireless Service Expansion

Verizon is one of the largest licensed wireless service providers in the County. Deployment by Verizon of fiber infrastructure to locations throughout the County will also support the expansion of Verizon's mobile and fixed wireless services to these areas in the future.

Local Contractor Base

Verizon's expansion of its network in Virginia helps the community, as Verizon has spent annually in the last two years alone \$518M in 2021 and \$603M in 2020 with suppliers and vendors in the Commonwealth of Virginia.

Global Accessibility

Fios Home Internet customers also benefit from the breadth and reach of Verizon's global network and relationships. Verizon is not just a Virginia company--Verizon provides communications services to customer locations in over 100 countries around the world, with a diverse workforce spanning over 40 countries. Our global reach and relationships benefit our customers in the County and elsewhere.

Because Verizon is an established provider, Fios customers benefit from a whole host of advanced capabilities and features.

Robust Firewall/Parental Controls

The Fios router is equipped with the latest Wi-Fi technology and has a robust firewall and parental control feature to give customers more control and security over their broadband experience.

Convenience.

Fios Home Internet includes many convenient features. Multiple users can use the service simultaneously without sacrificing speed or bandwidth, even during peak hours.

Support.

Verizon also provides professional installation services, and Fios service includes 24/7 technical support so customers can get answers when they need them.

Privacy and an Open Internet.

Verizon is strongly committed to customer privacy and to an open Internet, as evidenced by our Privacy Policy (<https://www.verizon.com/about/privacy/>) and Broadband Commitment (<https://www.verizon.com/broadbandcommitment>).

1. Project Description and Need

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

Project areas were selected through a data review of FCC Broadband map data (dated June 2021) to determine areas not served in James City County. The County also consulted with Verizon regarding its knowledge of served areas. The County further has historical knowledge based on past interactions with other providers in the community, constituents, local businesses, and other sources. The largest number of unserved locations are in the western portion of the county. Many of these are individual homes with last mile needs at the end of rural roads. The new fiber routes proposed by Verizon will also serve future development for our growing community.

The design proposed by Verizon Virginia LLC (Verizon) addresses the 764 unserved and underserved addresses of the project area that James City County (the County) has asked Verizon to build to because they today do not have access to qualifying broadband. Verizon proposes to deploy 40 miles of new fiber that will provide qualifying broadband to all of these locations.

Verizon is ready to move forward with this project. Verizon was the first to build fiber optic broadband on a large scale, and now serves over 6 million broadband customers with its Fios service. Verizon is a Fortune 20 company, but still has a local project office on the ground in the County. There are more than 6,600 Verizon employees across the Commonwealth of Virginia. Their capacity to fully staff the project with experienced, skilled, and reliable people is unmatched. This project team's command of the regulatory environment enables the ability to anticipate and tackle problems - local, state or federal - efficiently and completely. The Verizon team, from engineering to planning and project management to construction, leads the industry, as do the personnel who will assist customers once broadband is built. The same is true for the selected subcontractors and consultants.

Attachment 1 -Project Area Map

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

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. A review of the addresses yielded 723 passings of 25/3 or less bandwidth using Verizon ADSL (1.5/0.384), ViaSat Satellite (100/3), Hughes Network Systems Satellite (25/3), or VSAT Satellite (2/1.3). Satellite providers are available for service but not used as comparative service per VATI guidelines. The County has interacted with many of these providers over the years regarding their network construction on County roads and service to the community.

Verizon offers DSL and Fios services across parts of the County but does not offer any service meeting the requirements for "broadband" at the locations covered by this application. The proposed project areas are a natural fit with Verizon's existing infrastructure, requiring only an upgrade to facilities rather than new backbone build. As noted later in this application, Verizon's Fios broadband Internet access service, which is offered elsewhere in the Commonwealth of Virginia, and which we propose to deploy here, offers speeds starting at 300Mbps/300Mbps all the way up to its Gigabit Connection service, which supports 940Mbps downloads and uploads to 880Mbps. These speeds are well in excess of VATI requirements.

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

There were no CAFII, ACAM, ReConnect or Community Connect programs found providing funds in the James City County area. There are RDOF funded areas primarily consisting of Cox Communications, Connect Everyone, LLC, and Space Exploration Technologies auction winners. Attachment 2 details the findings.

Attachment 2 – Documentation on Federal Funding Area

4. Overlap: To be eligible for VATI, applicants must demonstrate that the proposed project area(s) is unserved. An unserved area is defined as an area with speeds below 100/20 Mbps and with less than 25% service overlap within the project area for wireless

projects and 20% for wireline projects. Describe any anticipated service overlap with current providers within the project area. Provide a detailed explanation as to how you determined the percentage overlap. Label Attachment: Attachment 3 – Documentation Unserved Area VATI Criteria.

Terrestrial based providers in the project areas are identified using the Federal Communications Commission [Fixed Broadband Deployment](#) website. Each address was checked for reported service levels. As noted in response to questions 1 and 2, the County has experience with local providers and worked with Verizon to formulate the targeted proposal reflected in the application.

Using the passings data we calculated the number of passings with service levels greater than 25/3 equaling 41. Then we calculated the percentage of overlap by dividing the passings with service levels greater than 25/3 (41) by the total number of passings (764) to get an overlap percentage of 5.37%.

Attachment 3 – Documentation Unserved Area VATI Criteria

5. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 25 Megabits per second download and 3 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 4 – Passings Form.

a. Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.

Categorization of the data is based on addresses provided by Verizon matched to data in James City County GIS system.

Total Properties = 646

Total Passings = 764

Residential Passings = 637

Business Passings = 127

Non-Residential Passings = 0

Community Anchors = 0

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

Categorization of the data is based on addresses provided by Verizon matched to data in James City County GIS system.

Total Properties = 101

Total RDOF Passings = 174

Residential RDOF Passings = 156

Business RDOF Passings = 18

Non-Residential RDOF Passings = 0

Community Anchor RDOF Passings = 0

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

At this time, Verizon does not anticipate application of special construction costs to any of the 764 passings. As noted elsewhere in this application, with respect to locations with long driveways or setbacks, or that are otherwise not able to be served directly from the public right of way, Verizon will follow its standard practice, as set forth in its Product Guide online.

Typically, this results in no construction charges for residential Fios Home Internet customers for extension of drops to long setback structures. With respect to new residential subdivisions, multi-tenant dwelling units, commercial development, and mixed-used business and residential development within or outside of the project area, Verizon will follow its standard practices for delivery of service and network extensions, including recovery of costs, as set forth in its standard Product Guide.

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

Not applicable. Please see the response to subsection C, preceding.

e. Provide the number of passings in the project area that have 25/3 Mbps or less. Describe the methodology used for these projections. (up to 15 points)

Terrestrial based providers in the project areas are identified by the Federal Communications Commission Fixed Broadband Deployment website. A review of the addresses yielded 723 passings of 25/3 or less bandwidth using Verizon ADSL (1.5/0.384). ViaSat Satellite (100/3), Hughes Network Systems Satellite (25/3), and VSAT Satellite (2/1.3). Satellite providers are available for service but not used as comparative service per VATI guidelines.

Passings with 25/3 Mbps or less = 723

Note: No satellite-based companies were used in the calculations per VATI guidelines.

Attachment 4 – Passings Form

6. Describe if any blocks awarded in Rural Digital Opportunity Fund (RDOF) are included in the VATI application area. If RDOF areas are included in the VATI application, provide a map of these areas and include information on number of passings in RDOF awarded areas within the VATI application area, and Census Block Group ID number for each block group in the project area. Label Attachment: Attachment 5 – RDOF Awarded Areas Form in VATI Area

Using the Rural Digital Opportunity Fund (RDOF) Phase I Results website each address was checked for inclusion in an RDOF area, and the Block Group ID & bidder company name were

collected. When creating the RDOF maps for the project area(s) RDOF GIS data from the website was used as a backdrop to the address locations and visually verified to the RDOF area and the 2010 Census Block (referenced on the spreadsheet as the Block Group ID). There are 101 properties with 174 passings that makeup the RDOF list. Connect Everyone LLC (18 properties / 18 passings) and Cox Communications (83 properties /156 passings) were determined to have RDOF auction areas within the project area(s).

Attachment 5 – RDOF Awarded Areas Form in VATI Area

7. N/A

8. Network Design: Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components that already exist and the ones that would be added by the proposed project. Provide a detailed explanation of how this information was determined with sources. Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs. If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals.

The information in this section was provided by Verizon and describes in detail the existing Verizon infrastructure and the network infrastructure to be deployed by Verizon as part of this application.

Verizon currently provides copper-based and fiber-based services in the project area from its central offices named Toano, Williamsburg, and Yorktown Road, which house Verizon's equipment and are connected back across Verizon's network to the global Internet. The project would add network components including equipment in the three central offices used to provide fiber-based Internet services as well as fiber-optic cables extending from the central offices past each of the proposed 764 unserved locations. Verizon also would provide fiber drops and customer-premise equipment required to deliver service in response to an order from a customer. Verizon would provide the fiber drops and equipment at its cost, so they are not included in the project or the application.

The proposed network begins with the optical line terminal (OLT) in a local Verizon central office. Fiber optic cables will run along main feeder routes from the OLT toward the unserved locations. The fiber optic cables may be placed in underground conduit or attached to utility

poles. Verizon's construction methods--aerial or underground--will vary by area and may depend on the availability of existing pole and conduit infrastructure and local requirements. The detailed budget provided by Verizon includes specific assumptions for the mix of aerial and underground placement methods for the proposed network. For underground spans of fiber, Verizon may place vaults, handholes, or ground-mounted cabinets to access the fiber at various points. For aerial routes, Verizon may place ground- or pole-mounted cabinets. Along and at the end of each feeder route, Verizon will place a passive optical splitter to connect each feeder fiber to up to 32 distribution fibers. There may be one or two splitters between the OLT and the customer. Distribution fiber cables terminate at fiber terminals placed in the public right of way on poles, cabinets, vaults, or handholes.

Once the build is completed, when a customer orders service, a fiber drop is run from the nearest terminal in the public right of way to the customer's location. An Optical Network Terminal (ONT) is placed at the exterior or interior of the customer location, depending on the precise design. The ONT terminates the optical signal from the OLT in the central office. The ONT enables connections using Category 5 or 6 inside wire to a broadband home router for Internet service. The router supports physical connections to devices in the home. Verizon Fios customers can rent or purchase a broadband router from Verizon, or provide their own. Routers obtained from Verizon, and most commercially available broadband routers, contain a Wi-Fi access point. The ONT also enables connections using RJ-11 cabling (for legacy voice services) and coaxial cable (for connection to existing cable inside wiring, if available).

For locations with long driveways or setbacks, or that are otherwise not able to be served directly from the public right of way, Verizon will follow its standard practice, as set forth in its Product Guide online. Typically, this results in no construction charges for residential Fios Home Internet customers for extension of drops to long setback structures. For new residential subdivisions, multi-tenant dwelling units, commercial development, and mixed-used business and residential development within or outside of the project area, Verizon will follow its standard practices for delivery of service and network extensions, including recovery of costs, as set forth in its standard Product Guide.

The network improvements just described would be used to deploy fiber to the premises (FTTP), which provides a 100% fiber optic connection from each customer's location back across Verizon's network to the public Internet. FTTP is considered the best, future-proof, broadband technology because it enables capacity to be added simply by updating the electronic equipment attached to each end of the fiber.

FTTP uses passive optical networking (PON) technology to provide the optical (laser) signal. The word “passive” in the name denotes the fact that none of the equipment in the outside plant is powered. This results in a more reliable network that is not dependent on commercial power at intermediate points in its design. The current generation of PON technology Verizon uses supports speeds up to 940 Mbps downstream and 880 Mbps upstream, far above the requirements of the VATI program. Verizon’s FTTP network architecture will facilitate deployment of the next generation of PON technology, which will be capable of generating speeds ten times as fast.

The FTTP network is highly reliable, in part because it incorporates redundancy and network control into its design and minimizes the risk of outages due to power failures. From the central office, broadband traffic is routed to the Internet over a redundant network that Verizon controls. Network diversity helps mitigate the risk of an outage due to fiber cuts, weather, or other events. Verizon’s end-to-end control of all network segments from the customer’s location to the Internet provides single-point accountability for service delivery and assurance, and simplifies and streamlines network management, trouble-shooting, and repair. Moreover, central offices are equipped with backup battery power and generators to help ensure the office equipment keeps running in a commercial power outage. And because there is no powered equipment in the outside plant, those facilities are not affected by power outages, removing a potential point of failure. Verizon enables customers to have broadband service during commercial power outages by offering to sell them to buy standard battery back-up equipment for their router and other broadband equipment.

Verizon manages the shared capacity provided by the network to address peaks in utilization. Verizon employs the same network management practices used to monitor, maintain, upgrade, and enhance that network that it has used for more than 15 years for its Fios network in Virginia and several other states. These processes involve automated internal reporting on capacity utilization on individual circuits in our transport and backbone networks, with internal processes that are triggered to augment capacity when circuits reach pre-defined capacity utilization thresholds.

Verizon maintains an internal speed testing platform that tests broadband speeds on tens of thousands of Fios circuits monthly to confirm that customers are receiving the provisioned speeds. Verizon intends to utilize speed and performance testing arrangements implemented in compliance with the FCC’s requirements for the Connect America Fund grant program. These are the same requirements that the Commerce Department adopted for the BEAD program, and are substantially consistent with the methodology utilized by the FCC’s Measuring Broadband America program, which Verizon has participated in since its inception over ten years ago.

These requirements generate speed test results that can be used to satisfy all existing FCC broadband regulations.

Verizon's broadband Internet access service provided over the FTTP network is called Fios. Fios has been recognized for excellence, and in J.D. Power's 2021 U.S. Residential Internet Service Provider Satisfaction Study, Verizon's Fios service ranked highest in the region. The expanded Fios broadband service in the County will provide reliable high-speed broadband internet access to homes, schools, libraries, and businesses, with pricing options to fit every budget and no data caps. Speed options for Fios customers in the County will range from 300 Mbps/300 Mbps up to 940 Mbps/880 Mbps.

See Attachment 19 – Optional for more information.

9. Speeds: Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth, and detail the technology that will be used. This description can be illustrated by a map or schematic diagram, as appropriate. List the private co-applicant's tiered price structure for all speed offerings in the proposed project area, including the lowest tiered speed offering at or above 100/20 Mbps. (up to 10 points)

Verizon provides a wide range of Fios service offerings, which it continues to update and enhance. The most up-to-date information can always be found on Verizon's website. As noted in response to item 8, Fios is provided over a shared-bandwidth network, engineered, managed and maintained by Verizon. The technology to be deployed is GPON over FTTP, as noted elsewhere in this application. Backhaul circuits from the Verizon central office to the Internet are typically Ethernet or wavelength services, and are managed to ensure sufficient capacity during peak busy periods, as the same may change over time.

Verizon Fios Home Internet Plans

Verizon Fios Home Internet Plans are described in the marketing materials provided at <https://www.verizon.com/home/bundles/fios/>. Further information on those plans is provided below.

(Pricing as of 6/16/2022. Subject to Change)

Figure 1-1. Verizon Fios Home Internet Plans. *Fios Home Internet offers the County the ability to enable modern, accessible, and future-ready Internet access for its residents.*

Service Offering	Features	Monthly Customer Price
Gigabit Connection	940/880 Mbps	\$89.99*
500 Mbps	500/500 Mbps	\$69.99**
300 Mbps	300/300 Mbps	\$49.99**

*Pricing reflects an Auto-Pay discount. Router rental is included in the monthly service price.

**Pricing reflects an Auto-Pay discount. Required router is included in the monthly service price.

Service Offering Features Plan Perks Price Notes

Gigabit Connection Ideal for a virtually seamless entertainment experience.

Download speeds up to 940 Mbps

Upload speeds up to 880 Mbps (25x faster than cable providers)

Included w/plan:

Whole-Home Wi-Fi (\$20/mo. value)

Router rental included + Wi-Fi extender provided (if recommended/requested)

\$89.99 Per month w/Auto Pay

Router rental included in monthly service price. Wi-Fi extender included in monthly service price (if deemed necessary by technician or on customer request).

500 Mbps Great for multiple users, binge streaming and sharing large files.

Download speeds up to 500 Mbps

Upload speeds up to 500 Mbps

\$69.99

300 Mbps Stream and download movies, shows and photos.

Download speeds up to 300 Mbps

Upload speeds up to 300 Mbps

\$49.99

Fios Forward Discounted Plans (With ACP eligibility)

(See Attachment 19 – Option for more information)

Verizon's Fios Forward discounted plans (with ACP eligibility) are described at <https://www.verizon.com/home/fios-forward/>. Further information on those plans is provided below.

Figure 1-2. Verizon Fios Forward*—Fios Home Internet. *Fios Forward, Verizon's low-income Internet program, is designed to help make high-speed Internet with no data caps more accessible to customers who qualify for the ACP program and apply the ACP benefit to their Fios Internet Service.*

Verizon Fios Forward Program*—Fios Home Internet		
Service Offering	Features	Monthly Consumer Price
Gigabit Connection	940/880 Mbps	\$89.99 \$39.99 ¹
500 Mbps	500/500 Mbps	\$69.99 \$14.99 ²
300 Mbps	300/300 Mbps	\$49.99 FREE ²

Pricing reflects up to \$30/mo. ACP discount plus up to \$20/mo. Fios Forward discount for qualifying new and existing Fios Forward customers enrolled in the Affordable Connectivity Program and Auto-Pay. Auto-Pay is not required for participation in ACP or access to Fios Forward pricing.

¹ Pricing reflects an Auto-Pay discount. Auto-Pay is not required for participation in ACP or access to Fios Forward pricing. Router rental is included in the monthly service price.

² Pricing reflects an Auto-Pay discount. Auto-Pay is not required for participation in ACP or access to Fios Forward pricing. Required router is not included in the monthly service price. Customers can bring their own router, purchase a router from Verizon, or rent a router for free from Verizon with a waiver through Fios Forward.

Gigabit Connection Ideal for a virtually seamless entertainment experience.

Download speeds up to 940 Mbps

Upload speeds up to 880 Mbps (25x faster than cable providers)

~~\$89.99~~ \$39.99 Per month w/Fios Forward + Affordable Connectivity Program

500 Mbps Great for multiple users, binge streaming and sharing large files.

Download speeds up to 500 Mbps

Upload speeds up to 500 Mbps

~~\$69.99~~ \$14.99 Per month w/Fios Forward + Affordable Connectivity Program

(discounts may vary)

300 Mbps Stream and download movies, shows and photos.

Download speeds up to 300 Mbps

Upload speeds up to 300 Mbps

~~\$39.99~~ FREE Per month w/Fios Forward + Affordable Connectivity Program (discounts may vary)

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

James City County is seeking to achieve Universal Broadband Service by partnering with Verizon and focusing on the remaining known locations lacking service. In 2022 James City County applied for a VATI grant partnering with Cox Communications. Grant funding was not achieved primarily due to the high cost per passing due to last mile construction. Currently Verizon provides internet services to a limited number of neighborhoods and individuals in James City County. Customers seeking broadband connections in many areas of the county face high construction costs for last-mile construction. In some cases, provider networks are fragmented by a mix of old and new technologies with some not meeting services standards for modern internet use. From the review of passings with service below 25/3 it is apparent that copper-based Verizon ADSL is the only service available in some areas. Filling in the gaps with Ggigabit level from Verizon provides an opportunity.

Achieving Universal Broadband Service requires partnerships and up to date data to find the gaps. The partnership with Verizon helps to fill the gaps through shared data analytics and project planning. Service providers including Verizon and Cox Communication deem their customer information proprietary, and the County relies on their willingness to review request information to show progress toward universal broadband status. Other data available to the County includes the Federal Communications Commission Fixed Broadband Deployment website. The County expects that future requests would fall into the categories of last mile and fragmented construction. The county would look to partner with Verizon to fill any remaining gaps.

11. Project Readiness

Describe the current state of project development, including but not limited to: planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design. Prepare a detailed project timeline or construction schedule, identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates. Applicants are encouraged to extensively discuss, where applicable, easements relating to railroad crossings, federally-owned lands and parks, partnerships with the Virginia Department of Transportation, and mobile home parks. Applicants must include Memorandums of Understanding (MOUs) or Memorandums of Agreement (MOAs) between applicants (drafts are allowable). Label Attachments: Attachment 7 – Timeline/Project Management Plan; Attachment 8 – MOU/MOA between Applicant/Co-Applicant; (up to 10 points)

Verizon is ready to begin this project.

Verizon's preliminary review indicates that virtually all of the locations to be served in the project area are already serviceable from Verizon's existing copper network in the County, over which Verizon has provided voice and other services as an ILEC. This project will directly overlay those copper facilities with fiber in an FTTP architecture.

Cost-effective, timely, and efficient access to existing aerial infrastructure greatly increases the likelihood of a broadband project being completed on time. Verizon has established good working relationships with the power companies in the County and has arrangements in place to access their utility poles for Verizon's aerial facilities.

Verizon has extensive experience working with the Virginia Department of Transportation (VDOT). Knowledge of VDOT's permitting processes and solid working relationships with agency personnel, including the ability to escalate matters and brainstorm creatively to overcome obstacles, is an essential and highly desirable asset for any broadband network construction project that occupies VDOT right-of-way.

Verizon has the necessary arrangements in place with respect to equipment, supply chain, logistics, contract services, and regulatory compliance to complete the projects proposed in this application in the designated time frame. Verizon's fiber network expansion program adds on average more than 400k premises and over 5,000 route miles of new fiber to our network each year. It is these same time-tested and proven supply chain and related arrangements that will be leveraged to construct the network proposed in this application.

With respect to one of the key inputs--fiber optic cable and accessories--Verizon has a long-standing relationship with Corning and is including a letter evidencing Corning's willingness and intent to meet our requirements for fiber under its existing supply agreements with Verizon.

Verizon's labor force is in place, is stable, and has high rates of retention throughout Verizon - including the 6,600 Virginians already employed at Verizon. Verizon's large direct workforce of experienced, well-paid, represented employees live and work in the communities of the County and surrounding areas. Where needed, the contractors that work with Verizon are an established and stable group, whose members have a track record of long service prioritizing their work for Verizon and its customers.

The project management process that Verizon will use was developed as Verizon built tens of thousands of miles of FTTP network infrastructure around the U.S., beginning in 2005. The process is tested, proven and transparent.

Representative Project Schedule

Attachment 20 – Question Document with Charts Links and Images has an 18-month representative project schedule that gives a high-level layout of the activities described. The following points highlight key elements of the proposed Project Schedule:

- An 18 month overall timeline. The project will proceed as seen in the Gantt chart below (Figure 1-1.).
- Different colors on the chart are used to denote each phase.
- The Fios Ordering/Installation Phase is not in the scope of this project--it is wholly dependent on customers actually placing orders for Fios service. But it is listed in the Gantt chart to demonstrate the point at which that will be possible. Completion of construction and availability of service ordering will be determined by a negotiated verification and acceptance process to be implemented between Verizon and the County.
- Work does not begin on any phase of the project until the execution of a Broadband contract between Verizon and the County.

Implementation Activities	Responsible Party	Milestone/Deliverables	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Engineering	Verizon	Complete Plan & Design																		
Permitting DOT & Municipalities	County / Verizon	Permit Application Approved																		
Make Ready	Verizon / Multiple Utilities	Make-Ready Work Complete																		
Construction	Verizon	Material Ordering & Testing																		
FIOS Ordering/Installation**	County Resident / Verizon	Service Order Complete																		

Figure 1-1 - Gantt chart of Representative Project Schedule

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

James City County has not received a VATI grant. James City County did receive funding under the “CARES Act Funding to Fast Track Broadband” in 2020. This project was completed and shows a status of closed.

13. Matching funds: Complete the funding sources table indicating the cash match and in kind resources from the applicant, co-applicant, and any other partners investing in the proposed project (VATI funding cannot exceed 80 percent of total project cost). In-kind resources include, but are not limited to: grant management, acquisition of rights of way or easements, waiving permit fees, force account labor, etc. Please note that a minimum 20% match is required to be eligible for VATI, the private sector provider must provide 10% of the required match. If the private co-applicant cash match is below 10% of total project cost, applicants must provide financial details demonstrating appropriate private investment. If applicants and co-applicants are seeking to include prior expended funds as matching funds, Attachment 11 must be completed. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding; Attachment 11 - Prior Expended Match Form

Verizon will provide 60% of the projected costs. Total projected costs are \$4.1M, so the amount provided by Verizon will be approximately \$2.46M in cash.

Attachment 9 – Funding Sources Table

Attachment 10 – Documentation of Match Funding

Attachment 11 – Prior Expended Match Form – “Not Needed”

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

The County would provide any services our departments can render towards the goal of universal broadband status. Our Community Development department can assist with any local

environmental or construction permitting necessary to complete construction. Our county utility authority James City Service Authority (JCSA) works closely with the Virginia Department of Transportation (VDOT) reviewing right-of-way permitting projects.

Verizon is committed to begin the work upon a successful award of the grant. Upon execution and acceptance from DHCD for these projects, Verizon is immediately prepared to begin activities. Verizon is excited to extend its existing internal FTTP build program to connect the rest of the unserved with its leading infrastructure on the East Coast.

As noted earlier in this application, the Verizon Proposed Network design significantly leverages its embedded network plant in the County. Verizon also has existing relationships with the local electric utility and VDOT. Verizon has a 15+ year track record of successfully deploying its FTTP network solution and Fios service to millions of homes up and down the East Coast.

Verizon's Credo starts with the phrase--" We have work because our customers value our high-quality communications services." That dedication and commitment to our customers is reflected in everything we do. Verizon has been the incumbent telephone company in the County for decades and has long-standing relationships with customers throughout the County. We believe these relationships, our name recognition, and the strength of the Verizon brand, will help accelerate adoption of our award-winning Fios Internet services for homes and businesses reached through this project.

Verizon's range of services and pricing plans--including plans for low-income customers that result in free broadband service after application of the FCC's Affordable Connectivity Program subsidy--provide an option for every budget.

The Verizon proposal also leverages Verizon's relationship with Verizon Wireless. Customers can save even more by bundling their Fios Internet service with certain Verizon Wireless 5G data plans--this is an attractive option for customers who already subscribe to Verizon Wireless mobile service.

For those residents who live in houses and multi-tenant buildings that are owned, built, or managed by major local, regional, and national companies, Verizon has a team with responsibility for working with those landlords or management companies. The Verizon Enhanced Communities (VEC) team is specifically tasked with establishing and maintaining relationships with building owners, developers/builders, and property management companies. Through the VEC Value Program, our team will help the building owner, developer/builder, or management company actively promote Fios as a key amenity to all the residents or homeowners, and provide the dedicated, end-to-end support that will keep them happy for years to come. Verizon's marketing arrangements allow VEC personnel to work with the customer to develop marketing programs to drive residents to purchase our Internet services. VEC customers also have the option to enter into a bulk arrangement with Verizon as part of which VEC provides discounted prices off our Fios retail services for residents of the building or development. VEC has strong relationships with builders such as NVR/Ryan Homes, Lennar,

Pulte Homes and other large, developed communities in Virginia, and looks forward to the possibility of strengthening existing relationships and forging new ones through the proposed Fios network expansion project in the County.

Because Verizon is an established provider, Fios customers benefit from a whole host of advanced capabilities and features:

Robust Firewall/Parental Controls. The Fios router is equipped with the latest Wi-Fi technology and has a robust firewall and parental control feature to give customers more control and security over their broadband experience.

Convenience. Fios Home Internet includes many convenient features. Multiple users can use the service simultaneously without sacrificing speed or bandwidth, even during peak hours.

Support. Verizon also provides professional installation services, and Fios service includes 24/7 technical support so customers can get answers when they need them.

CyberSecurity. Verizon is a recognized leader in cybersecurity. Verizon's Data Breach Investigative Report is an annual must-read for corporate and government CISOs, CSOs, CTOs, and CIOs. Verizon's global network security team has sensors deployed across our network, across America and around the world, and is always on the alert for the latest zero-day exploits and malicious activities. Verizon has relationships across industry and government that enable us to obtain the latest in threat intelligence. The cybersecurity countermeasures that Verizon's deploy on its backbone network to protect its business and government customers from hackers and other bad actors can benefit Fios customers whose services are connected to that same backbone network.

Privacy and an Open Internet. Verizon is strongly committed to customer privacy and to an open Internet, as evidenced by our Privacy Policy (<https://www.verizon.com/about/privacy/>) and Broadband Commitment (<https://www.verizon.com/broadbandcommitment>).

All of this, and more, will be brought to bear to maximize leverage and the success of the Verizon Project.

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

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

Communication of project status to stakeholders is achieved by way of the county website, social media, and reports to the Board of Supervisors. The county website has news feeds,

social media areas and links, and streaming video capabilities to get the word out. All media sources are available from the county's homepage. Web, Publications Management, and Video Services report to the Director of Information Resources Management, who reports to the county administrator. Social media is managed by the Communications Department whose director also reports to the county administrator. Reports to the Board of Supervisors are provided regularly by the county administrator and presentations by staff are provided during monthly business meetings at the request of the board.

Regarding Verizon's communications, before the project launch kickoff meeting, Verizon's Engineering and Construction Leadership will meet with the County's appointed project manager. Together they will review the proposed list of participants, a draft slide deck containing the agenda, schedule (phases, milestones, etc.), roles and responsibilities, the phases, and dependencies by Verizon on approvals, permitting, etc. When those items have been reviewed and approved by the County's project manager, the date and time of the kickoff meeting will be set, and the participants notified of both a virtual and on-site meeting requiring their attendance. The slide deck will be finalized based on the outcome of the initial meeting. Further project reporting will follow DHCD's requirements, as well as the reporting structure as dictated by the County's Board of Supervisors.

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

Verizon has well-established communications and marketing practices that will ensure that County residents are well-informed and up to date regarding

- the construction of broadband infrastructure in the Project area;
- the new Verizon Fios service that will be available to them;
- how to obtain or modify that Verizon Fios service, and;
- how to connect with Verizon to address their questions or customer service needs.

These efforts will include:

- Advance notice of construction - Letters, door hanger, or other notice for residents of areas where construction will be taking place.
- Web-based resources

- [Verizon/Fios page](#) - general information about Fios service, plans and pricing and how to subscribe, including a "Check Availability" widget that will allow residents simply to enter their street address to determine whether Fios service has become available in their area.
- Verizon's [Fios Forward](#) program- this page provides information about pricing for low income households, including the Fios Forward program which can leverage the federal ACP program to provide broadband internet service at no cost to qualifying households.
- [Digital Inclusion/Tech inclusion resources](#)
- [General Information and Customer Service Resources](#)
- Coordination with County staff, including County communications staff regarding major developments, general status and other matters.
- Marketing communications with the community and individual residents regarding the service that will become available to them.
- Communications with existing customers about the availability of broadband.

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

James City County works closely with Williamsburg James City County Schools to assist with the broadband needs of students. Evidence of this was the joint identification of students needing broadband service during the COVID-19 pandemic. State CARES funding was used in 2020 to provide remote learning for students in need. The County currently promotes through social media posts federally funded discounts to service rates for students in need. The Williamsburg Regional Library also promotes broadband services and potential solutions for the disadvantaged and elderly in the community.

Business communication is coordinated through the James City County Department of Economic Development. Businesses identified as underserved as well as those in proximity of services can be contacted by Economic Development. New business inquiries are provided contact information for utility services which includes communication-based services.

Verizon, for its part, is a leader in helping to address issues of digital literacy as part of its work to help bridge the Digital Divide.

For example, Verizon has established Citizen Verizon—its plan for economic, environmental, and social advancement. Through this program, Verizon is committing \$3B to build digital

literacy by providing 10 million youths with digital access and skills training, 1M small businesses with resources to help them thrive in the digital economy, and to prepare 500,000 individuals for future jobs by 2030. Small businesses and residents can access specific information around these programs at <https://www.verizon.com/about/responsibility>.

In addition to enhanced connectivity, Verizon provides resources to students, parents, and teachers to support virtual learning activities. More specifically, Verizon has increased the scale of its education work with the STEM Activity Center, an online toolkit that provides STEM resources. These resources offer hands-on activities that students, teachers, and parents can leverage for remote and in-classroom learning created in partnership with non-profit partner Project Lead The Way, to help supplement at-home learning and to help with digital literacy.

Verizon has also built a credentialed teacher training program, created with education non-profit partner Digital Promise, focused on digital skills, remote learning, and digital coaching. Open to all educators across the country, including in the County, the courses will help teachers become more efficient and effective with technology integrated instruction to help them navigate digital learning and provide a better virtual learning experience for students. Information on these programs is available at CitizenVerizon.com/DigitalInclusion.

16. Project Management: Identify key individuals who will be responsible for the management of the project and provide a brief description of their role and responsibilities for the project. Present this information in table format. Provide a brief description of the applicant and co applicant's history and experience with managing grants and constructing broadband communication facilities.

Organization	Department	Role	Description
Verizon	Engineering (OSP)	Senior Manager-Outside Plant	Responsible for the design, engineering, and implementation of Verizon wireline infrastructure in the ILEC footprint. Infrastructure includes fiber and associated equipment used for new revenue generating services.

Verizon	Contract Services - Buried Structure	Senior Manager-Ntwk Operations	Responsible for planning, sourcing, and managing all external third-party vendors necessary to create any new paths for Fiber Construction Team.
Verizon	Fiber Construction	Senior Manager-Ntwk Operations	Responsible for managing and overseeing all construction aspects of Verizon's FTTP and core fiber network, including placing, splicing and test/ turnup of next-generation optical networks.

17. Project Budget and Cost Appropriateness

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

Attachment email to VATI per special FOIA instructions.

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

James City County and Verizon are asking VATI for \$1,657,973 with a cost per property to the VATI of \$2,566. The total project cost per passing is \$2,170.

a. Total VATI funding request

\$1,657,973

b. Number of serviceable units

(up to 125 points)

19. Commonwealth Priorities (Up to 50 points)

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

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

The 127 identified business locations provide tax revenue to both James City County and the State of Virginia. Extension of broadband services to properties in the northwest and southeast areas of the county will be able to service established business /industrial parks. The county's Department of Economic Development will leverage the availability of these services to existing and new businesses.

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

Verizon also boasts various unique partnerships that assist with the objectives of the Commonwealth. Verizon has built a credentialed teacher training program, created with education non-profit partner Digital Promise, focused on digital skills, remote learning, and digital coaching. Open to all educators across the country, including in the County, the courses will help teachers become more efficient and effective with technology integrated instruction to help them navigate digital learning and provide a better virtual learning experience for students. Information on these programs is available at CitizenVerizon.com/DigitalInclusion.

Verizon is also a leader in creating opportunities for women. Despite tremendous strides toward greater gender equality and equity for women in the workplace, approximately 5.4 million jobs were lost by women in 2020 amid COVID-19. To help women re-enter the workforce and realize their career ambitions, Verizon and its partners launched Women's CoLab in October 2021, an initiative providing women with essential resources to help them achieve success in an increasingly digital economy. Information on this program is available at

<https://www.verizon.com/about/news/verizon-brings-together-major-fortune-500-companies-launch-womens-colab>.

There are additional partnerships that strengthen Verizon's stance as an industry leader, detailed in a letter as a part of Attachment 19 - Option.

c. Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 mbps, include information regarding the internet service provider's participation in the Affordable Connectivity Program

Verizon is committed to helping ensure that all Americans have access to affordable, reliable broadband and are equipped with the appropriate skills to use it. As we explained in the Accelerating America white paper, Verizon believes that broadband networks are critical to our daily lives, allowing all to work from home, connect with loved ones, find jobs, educate children remotely, and get medical attention virtually. (See <https://www.verizon.com/acceleratingamerica>). Accordingly, this proposed project will provide broadband service to 765 locations across the County to support economic development by providing needed connectivity.

All parties are most interested in assisting low-income residents, particularly families with school age children, to afford internet service. Verizon provides pricing for internet service that is available for documented, qualified low-income residents through its Fios Forward program. The counties' respective broadband groups will work to identify these residents to assist in their access to broadband.

Additionally, Verizon has demonstrated efforts in Virginia promoting ACP as a two prong approach, working with local non-profits that have deep roots working with low-income residents and working with local government agencies such as the Department of Social Services and housing authorities. Verizon's Fios Forward program works in conjunction with ACP eligibility to provide our 300/300 Mbps base package for free to anyone who qualifies. Since most students in the County are already eligible for ACP, this should apply to a majority of the project area, as long as families have a student who attends County schools.

Verizon's multiple dwelling unit and door-to-door sales teams are actively signing up new ACP customers across Virginia. Working with ongoing Verizon community engagement efforts along with nonprofits and local governments, both sales teams are attending and hosting ACP signup events to reach potentially qualified customers. At these events, Verizon team members are

able to assist customers in registering for ACP and signing up for new Verizon service at the ACP discounted rate. Verizon's community engagement and sales teams can coordinate efforts with the local government to host new signup events and attend large gatherings and events in the County in order to promote ACP to new eligible customers.

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

Verizon has prepared a letter to the County addressing their practices pertaining to ensuring supply chain fidelity. This letter, as well as a supplementary letter from Corning stating that they are ready to fulfill any supply chain obligations in regard to this project, can be seen in Attachment 19 – Optional

Verizon's letter explains that "[they] have the necessary arrangements in place with respect to equipment, supply chain, logistics, contract services, and regulatory compliance to complete the projects proposed in this application in the designated time frame. Verizon's fiber network expansion program adds on average more than 400,000 premises and over 5,000 route miles of new fiber to our network each year. It is these same time-tested and proven supply chain and related arrangements that will be leveraged to construct the network proposed in this application.

Verizon has deep relationships across the global supply chain with a wide range of equipment manufacturers, vendors, and suppliers. We leverage these relationships to drive lower costs and higher quality for our customers. The scale of our sourcing activity enables us to maximize our ability to obtain necessary equipment and services even when supplies run tight. With respect to one of the key inputs--fiber optic cable and accessories--Verizon has a long-standing relationship with Corning and is including a letter evidencing Corning's willingness and intent to meet our requirements for fiber under its existing supply agreements with Verizon.

Our labor force is in place, is stable, and has high rates of retention throughout Verizon - including the 6,600 Virginians already employed at Verizon. Our large direct workforce of experienced, well-paid, represented employees live and work in the communities of the County and surrounding areas. Where needed, the contractors that work with Verizon are an established and stable group, whose members have a track record of long service prioritizing their work for Verizon and its customers. Finally, Verizon already has in place the regulatory expertise to achieve compliance and adapt to changed circumstances."

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

James City County has long standing partnerships with Williamsburg James City County Schools and the Williamsburg Regional Library. Distance Learning for primary & secondary students, adult learners and educators is a priority for the community and a focus for all three organizations. The schools and libraries provide service provider information to students, parents, and patrons to help provide access to these services. All media sources are used to get the word out to the community.

In this proposal, Verizon has modeled a representative network build that would provide County residents at certain currently unserved or underserved locations symmetrical, high-speed broadband internet access as a future-proof solution for their homes, schools, libraries, distance learning, telemedicine, and other uses, at affordable prices. With sufficient infrastructure in place that is capable of any kind of broadband application desired, the only challenge left is to educate the public on the doors open to them by this technology. This has been touched on earlier in terms of the digital literacy efforts, but the County and Verizon both plan to conduct activities to empower their constituents with the required knowledge to take full advantage.

Verizon has established Citizen Verizon—our plan for economic, environmental, and social advancement. Through this program, we are committing \$3B to provide 10 million youths with digital access and skills training, 1M small businesses with resources to help them thrive in the digital economy, and to prepare 500K individuals for future jobs by 2030. Small businesses and residents can access specific information around these programs at <https://www.verizon.com/about/responsibility>.

In addition to enhanced connectivity, Verizon provides resources to students, parents, and teachers to support virtual learning activities. More specifically, Verizon has increased the scale of its education work with the STEM Activity Center, an online toolkit that provides STEM resources. These resources offer hands-on activities that students, teachers, and parents can leverage for remote and in-classroom learning created in partnership with non-profit partner Project Lead The Way, to help supplement at-home learning.

Universal coverage as enabled by this application will open new doors for every citizen in the County, but the work in educating the public in the ways they are being empowered is ongoing and evolving.

20. Additional Information

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