

Application to DHCD Submitted through CAMS

City of Chesapeake

Virginia Telecommunications Initiative 2022

Application ID: 86509102021111902
Application Status: Pending
Program Name: Virginia Telecommunications Initiative 2022
Organization Name: City of Chesapeake
Organization Address: 301 Albemarle Drive
Chesapeake, VA 23322
Profile Manager Name: Mary Riley
Profile Manager Phone: (757) 382-2321
Profile Manager Email: mriley@cityofchesapeake.net

Project Name: Virginia Telecommunications Initiative 2022
Project Contact Name: Chuck Williams
Project Contact Phone: (757) 382-8796
Project Contact Email: cmwilliams@cityofchesapeake.net
Project Location: 300 Shea Dr
Chesapeake, VA 23322-5565
Project Service Area: Chesapeake City

Total Requested Amount: \$580,435.00
Required Annual Audit Status: Accepted

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Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
Telecommunications	\$580,435.00	\$434,559.00	\$1,014,994.00
Construction	\$486,344.00	\$371,556.00	\$857,900.00
Other: Engineering	\$9,627.00	\$8,302.00	\$17,929.00
Other: Optical and Electrical	\$84,464.00	\$54,701.00	\$139,165.00
Total:	\$580,435.00	\$434,559.00	\$1,014,994.00

Budget Narrative:

Chesapeake and Cox are asking for \$580,435 to fund four projects in unserved areas of Chesapeake that have had numerous citizen complaints related to connectivity. Cox is putting \$434,559 in funds to support the overall construction and permitting of these four projects.

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:

The southwest quadrant of the City of Chesapeake has been an area of opportunity for several years. Requests from citizens over the years have brought much attention to this area of the City which includes areas just outside Northwest Naval Annex and the Chesapeake Regional Airport. This project will attempt to meet universal coverage across the City by Cox. The project includes 279 passings consisting of 228 residences, 49 home-based businesses, and 2 commercial businesses that currently do not have access to broadband internet speeds. Over the past 10 years, Cox has invested over \$2 billion in its network which has helped to build out areas of Chesapeake to the point that with the extension of service to these project areas, will complete the goal of this being the final project areas away for Cox to achieve universal coverage.

This area has traditionally been farmland and within the last several years has been converting over to small subdivisions of a few clustered homes or smaller farms of a few acres. This area also borders the Chesapeake Regional Airport where crash zone density restrictions are in place which limits the population. The flight paths also limit tower sites in the area which limits wireless coverage opportunities. There is further limitations to wireless coverage due to the Northwest Naval Annex operational restrictions.

The attached maps give the geographic area and coverage of the sections of Eason Rd, West Rd, Cornland & Seven Eleven Rd, and Ballahack Rd.

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

Answer:

Cox and Verizon are the two providers within the City of Chesapeake. There are no providers currently providing Internet services in the proposed areas outside of satellite. These areas only have spotty cell service due to the lack of hard-wired telecommunications and lack of cell towers due to two military installations in this rural area within Chesapeake along Ballhack Rd. We have franchise agreements with all providers within the City that utilize our rights-of-way and are aware of their current coverage areas throughout the City. Due to the low levels of density within the projects proposed areas, providers have not traditionally extended services into the areas.

In our attached "Documentation that proposed project area is unserved based on VATI criteria" form we do not agree with CIT or Virginia Tech's assessment of fiber coverage in the southwest portion of our City that would offer coverage. The more telling sign that CIT and Virginia Tech are incorrect about their coverage map is the fact that they have fiber coverage in non-contiguous blocks which is not how fiber is installed. Since Verizon had stopped installing fiber over five years ago in our City and Cox is partnering with us to attempt to achieve universal coverage according to their maps, are partnership is trying to make the CIT and Virginia Tech maps factual.

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

Answer:

Eason and West Rd projects have no other funding sources for their 40 passings. Cornland has 4 homes that qualify for funding out of the 68 passings in total. Ballhack has 124 that possibly qualify for funding out of 171 total passings but are under **satellite coverage** by Space Exploration Technologies Corp. (SpaceX). Over half of our business passings are in these RDOF satellite coverage areas, and need more reliable wire-line services in a more timely manner than 6 years in order to conduct their business. (see Optional Attachment Business Along VATI 2022 Route) Then the other two provider besides Cox who won RDOF auctions are Connect Everyone LLC and Space Exploration Technologies Corp., neither of which has contacted the City's POC on Broadband, Chuck Williams.

There are no areas near the project area that have received funding from federal grant programs; there are some addresses in this project that fall into newly awarded areas, which will be addressed in question 4.

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

Answer:

Based on Question 2 consideration “Please do not include satellite.” we will not include potential satellite-covered sites along Ballahack in our estimates.

There are 4 addresses that overlap with RDOF block group 515500212001 that was awarded to Cox Communications:

3612 Cornland Rd.

3604 Cornland Rd.

3700 Cornland Rd.

3720 Cornland Rd.

While federal funding has been awarded for these areas, plans to begin construction are still a few years out; awarding a grant to build to the entire project area including these four addresses will accelerate the timeline to get service to the remaining unserved residents in Chesapeake. Furthermore, in order to efficiently and economically reach other homes in the project area along Cornland Rd. and West Rd., it is necessary to build the network utilizing the proposed path although the route does pass the aforementioned homes situated in RDOF Block Group 515500212001.

Addresses on Ballahack Road that are part of this grant application fall within RDOF Block Group 515500212002 that was awarded to SpaceX Technologies; pursuant to the grant guidelines, RDOF award funding to a satellite internet service provider will have no bearing on the scoring for the specific addresses that fall in the SpaceX award area therefore no specific addresses or maps are included in this grant application.

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

Answer:

In our attached "Documentation that proposed project area is unserved based on VATI criteria" form we do not agree with CIT or Virginia Tech's assessment of fiber coverage in the southwest portion of our City that would offer coverage. The more telling sign that CIT and Virginia Tech are incorrect about their coverage map is the fact that they have fiber coverage in non-contiguous blocks which is not how fiber is installed. Since Verizon had stopped installing fiber over five years ago in our City and Cox is partnering with us to attempt to achieve universal coverage according to their maps, are partnership is trying to make the CIT and Virginia Tech maps factual.

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6. Total Passings: Provide the number of total serviceable units in the project area. Applicants are encouraged to prioritize areas lacking 10 Megabits per second download and 1 Megabits per second upload speeds, as they will receive priority in application scoring. For projects with more than one service area, each service area must have delineated passing information. Label Attachment: Attachment 5 – Passings Form.
- Of the total number of VATI passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area. (Up to 10 points for businesses and community anchor institutions)
 - If applicable, of the total number of RDOF passings, provide the number of residential, business, non-residential, and community anchors in the proposed project area.
 - If applicable, provide the number of passings that will require special construction costs, defined as a one-time fee above normal service connection fees required to provide broadband access to a premise. Describe the methodology used for these projections.
 - If applicable, provide the number of passings included in the application that will receive broadband access because special construction costs have been budgeted in the VATI application. Describe the methodology used for determining which passings with special construction costs were budgeted in the application.
 - Provide the number of passings in the project area that have 10/1 mbps or less. Describe the methodology used for these projections. (up to 15 points)

Answer:

- Total number of passings for the project is 279 consisting of 228 residences, 49 home-based businesses, and 2 commercial businesses.
- Total number of RDOF passings is 4 residences.
- Dominion Power is actively working on a strategic undergrounding project in the region. This project could potentially impact how our engineers design network expansion plans, which in turn could alter our costs significantly. If Cox needs to attach to utility poles owned by Dominion (for aerial construction) but Dominion has decided to underground lines in an area where we're looking to expand, our build plans could be impacted; instead of being able to attach to a pole that has since been removed, we will need to plan an underground build which significantly alters the cost of the project. Since the Dominion project is ongoing, determination of aerial or underground could change over the course of the VATI judging and award process; these changes will not be known until a full walk-out of the project is complete, which will not take place until the project funding is awarded and there is an agreement in place to move forward with the project build.
- This will be dependent on Dominion's plan for the area.
- We went out to Cox and Verizon request for service sites and tried several of the addresses from each segment of the project and neither provider offered broadband service currently. You could put yourself on an update list with your email if you wished to be informed when that address would get service. Cox also proposed this project because it will get them to universal coverage in Chesapeake and fill in the final gaps in the southern portion of the City.
- 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:

There is no wireless component.

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

Answer:

The proposed project and construction will be incorporated into the existing fiber network owned and operated by Cox Communications; these network extension projects will be fiber-to-the-home build and will

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be capable of providing residential and home-based business customers with download speeds of up to 940 Mbps and upload speeds of up to 35 Mbps through the Docsis 3.1 platform.

Cox provides internet speeds ranging from 25Mbps/3Mbps to up to 940 Mbps/35Mbps. Cox continues to offer a 25Mbps/3Mbps service tier as a low-cost option, ideal for up to three devices and light web surfing, email, and social networking; this is an economical solution for customers who don't want to pay for higher speeds they don't need and won't use.

All Cox internet plans come with access to more than three million WiFi hotspots nationwide.

(*if the build passes businesses that are unserved...)The build will also allow our commercial services team, Cox Business, to extend their services to any unserved businesses along the network expansion route, giving them access to the suite of business services available, including broadband speeds up to 100 gbps.

Residential pricing structure:

Package

Speed (up to)

Rack Rate (monthly)

New Customer Promo (monthly, 12 mo. term)

Connect2Compete*

50/3 Mbps

\$9.95

\$9.95

Straight Up Internet

25/3 Mbps

\$50.00

\$50.00

Cox Internet Starter

25/3 Mbps

\$44.99

\$29.99

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Cox Internet Essential

50/3 Mbps

\$65.99

\$39.99

Cox Internet Preferred

150/10 Mbps

\$83.99

\$59.99

Cox Internet Ultimate

500/10 Mbps

\$99.99

\$79.99

Cox Internet Gigablast

940/35Mbps

\$119.99

\$99.99

*for qualifying families

Prices include monthly charges and applicable discounts. Promotional pricing may differ depending on the customer's decision to bundle services and expiration of/changes to promotional pricing. One-time charges, activation fees and monthly equipment fees may apply.

Business/Commercial Internet Pricing Structure:

Package

Speed (up to)

Rack Rate (monthly)

Business Internet 100

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100/20 Mbps

\$59.00

Business Internet 200

200/20 Mbps

\$89.00

Business Internet 300

300/30 Mbps

\$109.00

Business Internet 500

500/35 Mbps

\$139.00

Business Internet 940

940/35 Mbps

\$219.00

* For Cox Business Internet 100 and 200 levels, there is also a month-to-month option; this option increases the cost by \$15 per month.

Cox Business also offers customized enterprise internet solutions, dedicated fiber, HFC internet, and managed WiFi solutions to meet individual needs of businesses. With symmetrical speeds of up to 10+ Gbps, there are solutions to support any size business.

In response to the increase of residents shifting to a work-from-home model, Cox Business launched an enterprise-grade work-at-home connectivity solution which would be available to residents benefiting from this last mile extension. This is a separate internet connection that would go directly to the employee's home and will have the capability to provide remote staff with company-provided services, including broadband, WiFi, McAfee endpoint security and MalBlock to help ensure staff members have the same options for connectivity they would have if they were working in the office.

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

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Answer:

Cox's highly redundant and resilient network is managed around the clock by a full staff of nationwide network professionals that can holistically monitor and manage the Cox network both physically from network operations centers and 100 percent virtually, if needed. Their forward-thinking network management and service assurance philosophy means they have software-enabled and virtualized significant portions of their network to proactively and reactively solve any temporary customer and network issues in a timely and efficient manner.

Cox operates a high-speed, national fiber optic backbone comprised of tens of thousands of fiber miles. The backbone is self-healing through strategic deployment of core infrastructure components. Multiple diverse connections help ensure backbone locations are not isolated in the event of an outage and that they maintain ample capacity to handle peak traffic periods. Their experience includes keeping customers online and connected during wildfires, mudslides, severe weather events and numerous other natural disasters.

Through the video franchise with the City of Chesapeake, Cox Communications has built and maintained a hybrid fiber-coax (HFC) network in the City for decades for distribution of the company's services (voice, video, data, security, business services) to its subscribers. The technology connects our subscribers to one of the company's 21 critical facilities located in Virginia. These critical facilities contain the company's core network hardware and connections to the internet and public switched telephone network. All network hardware and network connections in our critical facilities have at least two layers of redundancy.

Hybrid fiber coaxial (HFC) networks send signals from the Cox's critical facilities to the communities we service through fiber optic cables. At the local community, a box called an optical node translates the signal from a light beam to radio frequency (RF) and sends it over coaxial cable lines for distribution to our residential and business subscribers. The fiber optic backbone feeding the communities we service provide adequate bandwidth to allow for timely future expansion and new bandwidth-intensive services.

Cox trains and employs engineers and technicians to ensure we maintain a 99.999% network reliability. Again, the network and hubsite are monitored both locally and nationally 24 hours a day and 365 days a year.

The company constantly monitors its network and upgrades accordingly in order to meet subscriber demand. Typical surges in broadband traffic occur in the evenings, on weekends and on holidays. In light of the recent COVID crisis and the number of individuals working from home and students connecting virtually for their education, Cox implemented their processes for peak use to respond appropriately to meet the demand from this shift in usage. They've also successfully virtualized their network operations by executing long-term business continuity strategies, implementing new leading-edge collaboration and predictive analytic tools, providing full functionality mobile workstations and equipping their network operations teams with robust tools to work remotely.

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

Answer:

Cox has confirmed this project will complete their network in Chesapeake allowing them to offer services to all citizens and businesses who wish to have broadband. Cox was willing to share that they serve approximately 97,400 homes in Chesapeake despite not willing to share their customer numbers as a practice. Chesapeake Planning Department's most recent 2018 Housing Units by Type had a total of 97,603 units in Chesapeake. Based on these two numbers and Cox's internal reviews we feel that Chesapeake has achieved universal coverage. See Attachment 20 Total Existing Housing Units by Type

11. **Project Readiness**

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

Answer:

The plan demonstrates a commitment to reach the 2022 completion date with a steady and phased-in process to include: creating project account, performing field survey for construction, completing Dominion Power pole application process, designing project, securing VDOT permits and private property easements, ordering project materials, setting power supply units, performing aerial and underground construction, activating the network, and releasing the addresses. Cox Communications personnel overseeing the planning and construction phases have thoroughly reviewed the project management plan and timeline to confirm that all resources are available to complete the project by the required time frame.

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:

Cox is familiar with the VATI grant process, having worked with localities for each VATI grant cycle since the inception of the program.

Cox was part of one of the first VATI awards made in 2016, successfully partnering with Gloucester County to bring last mile broadband service to more than 100 homes and businesses in a previously unserved area of the County.

Cox is currently in the planning phase of a 2021-awarded VATI grant project in Chesapeake; we are on track to have customers connected within the 12-month deadline for project completion.

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. Label Attachments: Attachment 9 - Funding Sources Table; Attachment 10 – Documentation of Match Funding

Answer:

We are asking for \$580,435 from DHCD in VATI funds. Cox matching funds of \$434,559 to cover implementation and materials costs associated with the project.

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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 City will be leveraging the right-of-way fees structure and internal PM oversight. Cox will be utilizing their own professional services group to lower the implementation costs; current partnership with Dominion to bring down make-ready fees for poles use; and with their suppliers to negotiate using Cox's national pricing discounts for materials

15. Marketing: Describe the broadband adoption plan.

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

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

Answer:

Cox has been serving Chesapeake for more than 40 years with local employees servicing homes and businesses throughout the region. The Cox brand is well-recognized as a local technology leader and a company that is committed to the communities it serves.

Cox actively promotes its products and services in Chesapeake through a multi-faceted, multi-million dollar marketing campaign that includes both direct and indirect sales, outdoor billboards, digital advertising, social media presence, and television commercials.

This build will benefit from all national and local advertising investments by Cox Communications.

In addition to traditional marketing, Cox is also a strong supporter of local business and nonprofits through sponsorships at large venues and events that attract attendees from all across the region; these partnerships are negotiated annual and have included the Virginia Beach Amphitheater, ODU Football, Virginia Tech Football, the Patriotic Festival and Something in the Water.

On September 8, 2021, Cox announced a collaboration with Malcolm Mitchell, Super Bowl champion and *Share the Magic Foundation* founder, to narrow the learning gap in diverse, low-income neighborhoods through its Connect2Comepte program. The new partnership builds upon Cox Communications' continued commitment to ensuring low-income, K-12 students are positioned for the future through technology. Cox also partners with Boys & Girls Clubs of America, where the company has provided Innovation Labs as a place for kids and teens to access the internet and grow digital literacy skills after school.

Cox has several resources for families and businesses in support of digital literacy and maximizing broadband capabilities, addressing the ongoing needs throughout the pandemic. In addition to being an early signee of the FCC's Keep America Connected pledge at the onset of the pandemic in 2020, several digital equity efforts by Cox have recently been put into place:

- Cox announced its participation in the FCC's Emergency Connectivity Fund to deliver internet services to students, educational staff and library patrons who would otherwise lack a sufficient connection to the internet for remote learning and remote library services. For more information on the FCC's ECF program, visit cox.com/ecf.
- Cox is a participant in the FCC's Emergency Broadband Benefit program which provides temporary financial assistance for internet service. Eligible families may qualify to receive up to \$50 off their monthly bill based on their current internet service and equipment rental, or up to \$75 if they live in a tribal area. Cox

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Connect2Compete customers are eligible for this benefit. For more information on the FCC's EBB program, visit cox.com/ebb.

- Cox announced that the temporary connection speed increase for Connect2Compete, prompted by the COVID-19 pandemic, would become the new standard speed for Connect2Compete internet service. The connection speed was bolstered from 25 Mbps to 50 Mbps.
- Last year, Cox suspended late fees and extended payment relief offerings for customers in the Connect2Compete program who expressed an inability to pay due to pandemic hardships.
- The Digital Academy is the digital literacy arm of Cox's Connect2Compete program designed to connect families, educators, community leaders and students with free access to tips, educational videos and tutorials to ensure safe and effective online behavior. This platform is continuously updated with fresh and relevant information.
- Cox added the MyFuture platform from the Boys and Girls Clubs of America recently to the Digital Academy. My Future empowers kids and teens to learn new skills, share accomplishments and earn recognition via gamification in a safe and fun online environment.

Cox also has a [YouTube page](#) with product how-to videos supporting digital literacy, troubleshooting and teaching users how to get the most out of their services. Cox also employs a technical support care team available 24/7 to help customers navigate their Cox technology in their homes.

For business customers, CoxBlue.com provides endless resources for small and medium sized businesses – everything from blog posts on small business trends to how to reopen your business after a shutdown.

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

Answer:

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City of Chesapeake Project Manager

Chuck Williams, Deputy Director of IT

Cox Communications Project Manager

Anthony Crish, Planning & Construction Manager

Cox Communications Government/Chesapeake Liaison

Sarah Buck, Public Affairs Sr. Manager

The City of Chesapeake is working with Cox Communications, a privately-held, nationally recognized provider of broadband, digital cable television and other telecommunications services. With 125,000 miles of network infrastructure nationwide, Cox Communications is the third largest telecommunications corporation in the United States, serving more than 6 million homes and businesses. Our culture values customer satisfaction, diversity, environmental responsibility, and employee well-being. Our employees are positive ambassadors for Cox; they share our natural commitment to the customer experience. Cox also takes great pride in utilizing SWaM subcontractors where possible to complete construction projects. We maintain our own Supplier Diversity Program to make a good faith effort to utilize small, women- and/or minority-owned business subcontractors and suppliers. Furthermore, our engineering, construction, and planning leaders bring decades of experience to the project team, ensuring the most effective and economic service delivery for this broadband expansion project.

Cox and the City of Chesapeake entered into their first cable television franchise agreement several decades ago. Since that time the city and Cox have experienced a collaborative and mutually beneficial working relationship.

Cox Communications has made great progress in connecting unserved residents in Chesapeake as development continues in other parts of the City. However, certain rural areas continue to present great challenges; this grant opportunity presents a viable means and solution to expand services where it would otherwise be financially unfeasible.

Cox is familiar with the VATI grant process, being part of one of the first VATI awards made in 2016. Cox successfully partnered with Gloucester County to bring last mile service to more than 100 homes and businesses in a previously unserved area of the County.

Additionally, Cox partnered with several localities including New Kent County, James City County, Stafford County, and Roanoke County to identify and complete broadband expansion projects using funds allocated from the CARES Act.

The City of Chesapeake and Cox are also partnering on VATI 2021 Grant at this time.

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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:

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed work as outlined in this grant application. Cox is able to leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed. Therefore, Cox has the benefit of not having to request quotes for individual projects; the costs are standard so they're able to build them in to the costs presented in the table provided and are not adjusted based on geographic location, project size, source of funding, or any other factors. Contracted rates are considered proprietary. It is our hope that this explanation will be sufficient in demonstrating to the review board that Cox has done its due diligence to negotiate rates that reflect a responsible use of resources both for the planning and completion of these last mile projects.

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:
- Total VATI funding request
 - Number of serviceable units (up to 125 points)

Answer:

A. \$580,435 requested

B. 279 units

19. Commonwealth Priorities (Up to 40 points)

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

- 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.
- Unique partnerships involved in the proposed project. Examples include electric utilities, universities, and federal/state agencies.
- Digital equity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 25/3 mbps.

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A. This project will offer over fifty-one (51) businesses within Chesapeake the ability to expand their online offerings and more easily accommodate remote working capability. Business owners will not have to visit school or library parking lots or go to McDonalds or Starbucks to conduct their online business needs.

B. Cox is working closely with Dominion Electric to determine if this is one of the regions Dominion is going to replace poles with underground lines and if so that will be a tremendous benefit to our citizens during weather events. This region of the City especially along Ballahack Rd has downed utility lines on a regular basis due to weather events.

C. Cox is actively evaluating broadband expansion builds in Chesapeake as the more rural parts of the City see increased development. There are several areas currently under review for expansion. Because of the density in the proposed project area, additional funding support is necessary to justify expansion. With the build to these 279 residential locations, Chesapeake will be able to confirm universal coverage status thanks to the continued efforts of Cox and the City working together to identify new build expansion opportunities under the existing franchise.

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

The Cox Connect2Compete program launched in Virginia in 2013. To date, more than 10,000 families in Virginia are benefiting from the program by having access to an in-home 50/3 mbps broadband connection . Families with a student in k-12 that participate in government assistance programs like Head Start, NSLP, WIC, LIHEAP, SNAP, TANF or who live in government housing qualify for this service option.

Last year, our teams worked with Virginia Beach City Public Schools to set up a payment program to support student families who were in need of financial assistance to afford an in-home internet connection. Cox manages a secure process that credits accounts using VBCPS funding; qualifying customers will receive a bill that reflects a zero balance due for internet through this program.

In addition to Connect2Compete, Cox offers a variety of options for connectivity including a pay-as-you-go option called Straight Up internet which is 25/3 mbps in-home internet with wifi for \$50 per month. This option does not require a contract, credit check or deposit. A modem and all fees are included in the \$50 per month pricing.

Cox is also a participating provider in the Emergency Broadband Benefit program as it aligns with our long-standing commitment to narrowing the digital divide. We raised our hand without hesitation to help administer the government's program and deliver whatever financial relief is available – for however long – in order to help our customers during this challenging time. Additionally, Cox is working with local schools and libraries to help provide internet service through the FCC's Emergency Connectivity Fund (ECF) program. Cox's ECF offering will equip customers with internet service with speeds of 50/3 mbps and a wifi modem. Again, we immediately raised our hand to participate in this federal program to help connect families afford an in-home connection.

In response to the COVID crisis in early 2020, Cox put several programs in place to help support residential and business customers respond to the pandemic and its uncertainty. Plans included offering a low-income internet tier with no annual contract and offering two months of free internet to new Connect2Compete customers. Cox was also able to set up a program to help third-party organizations (i.e., localities, non-profits) and businesses help pay for connectivity for families or employees in response to the pandemic.

Application to DHCD Submitted through CAMS

City of Chesapeake

Virginia Telecommunications Initiative 2022

20. Additional Information

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

Label Additional Attachments as:

- a. Attachment 14 – Two most recent Form 477 submitted to the FCC or equivalent
- b. Attachment 15 - Point and Polygon shapefiles, in.zip file form, showing proposed passings and project area
- c. Attachment 16 - For wireless applicants: shapefiles, in .zip file form, indicating RSSI projections in the application area
- d. Attachment 17 – XXXXXXXX
- e. Attachment 18 – XXXXXXXX
- f. Attachment 19 – XXXXXXXX
- g. Attachment 20 – XXXXXXXX

Answer:

- a. Has been attached
- b. Has been attached
- c. Not needed
- d. Attachment 17 - Business Along VATI 2022 Route
- e. Attachment 18 - Sample of Marketing Assets
- f. Attachment 19 – Senator Cosgrove Final
- g. *Attachment 20 - Total Existing Housing Units by Type*

Attachments:

Map(s) of project area, including proposed infrastructure

MapsofProjectAreaIncludingProposedInfrastructure912202191105.pdf

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

DocumentationOfFederalFundingCAFACAMUSDARDOFetcInAndOrNearProposedProjectArea914202113727.pdf

Application to DHCD Submitted through CAMS

City of Chesapeake

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RDOF Awarded Areas included in VATI Application (Use template provided)

RDOFAwardedAreasincludedinVATIApplication914202114808.docx

Documentation that proposed project area is unserved based on VATI criteria

DocumentationthatproposedprojectareaisunservedbasedonVATIconditions9132021105321.pdf

Passings Form (Use template provided)

PassingsForm913202184814.docx

Propagation Map if Wireless Project

PropagationMapifWirelessProject910202135047.pdf

Timeline/Project Management Plan

TimelineProjectManagementPlan913202112623.xlsx

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

MOUMOAbetweenapplicantcoapplicant910202133343.docx

Funding Sources Table (Use template provided)

FundingSourcesTable913202132106.docx

Documentation of Match Funding

DocumentationofMatchFunding913202113531.pdf

Letters of Support

LettersofSupport910202132653.pdf

Derivation of Cost/Project Budget (Use template provided)

DerivationofCostProjectBudget913202120146.xlsx

Documentation of Supporting Cost Estimates

DocumentationofSupportingCostEstimates912202192058.pdf

Application to DHCD Submitted through CAMS

City of Chesapeake

Virginia Telecommunications Initiative 2022

Two most recent Form 477 submitted to the FCC or equivalent

TwoMostRecent477FormsSubmittedtotheFCC912202190411.pdf

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

PointandPolygonShapefilesInZipFileFormShowingProposedPassingsAndProjectArea913202131220.zip

Optional

BusinessesalongVATI2022Route914202111751.pdf

Optional

SampleofMarketingAssets914202112947.docx

Optional

SenatorCosgroveFINAL41221914202111324.docx

Optional

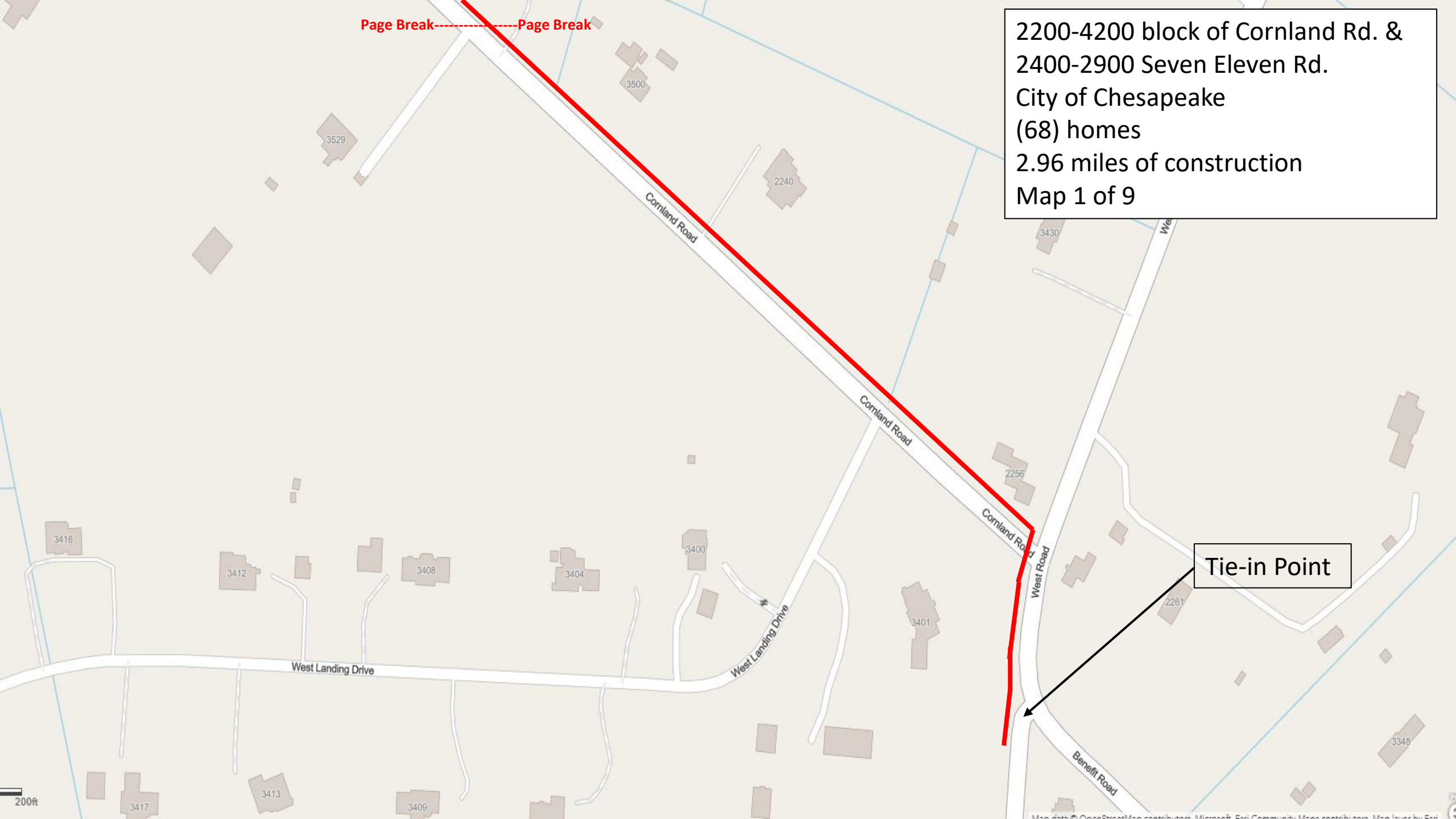
TotalExistingHousingUnitsbyType914202124732.pdf

Notes:

Cox has confirmed this project will complete their network in Chesapeake allowing them to offer universal coverage to all citizens and businesses who wish to have broadband. Cox's letter to Senator Cosgrove points out some important facts about Cox's commitment to Chesapeake and Virginia. In Chesapeake alone in 2020, Cox added service to over 1,000 homes in Chesapeake. This last request will allow Cox and Chesapeake a long-awaited goal to serve all citizens of the City. With your assistance we all can make Virginia a model for the country by achieving universal coverage in the 2nd largest city in Virginia.

Page Break-----Page Break

2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 1 of 9



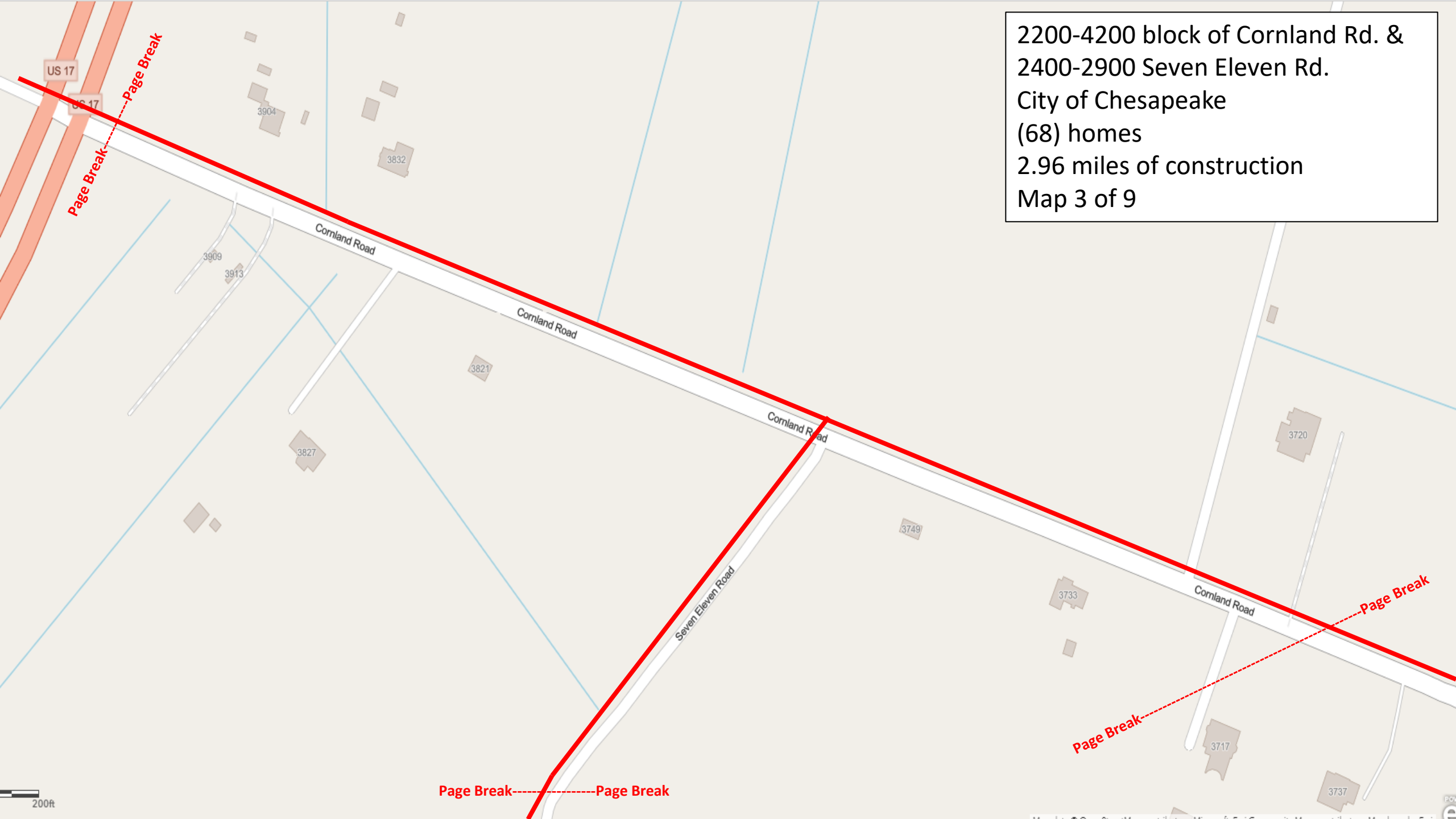
Tie-in Point

200ft

2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 2 of 9



2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 3 of 9



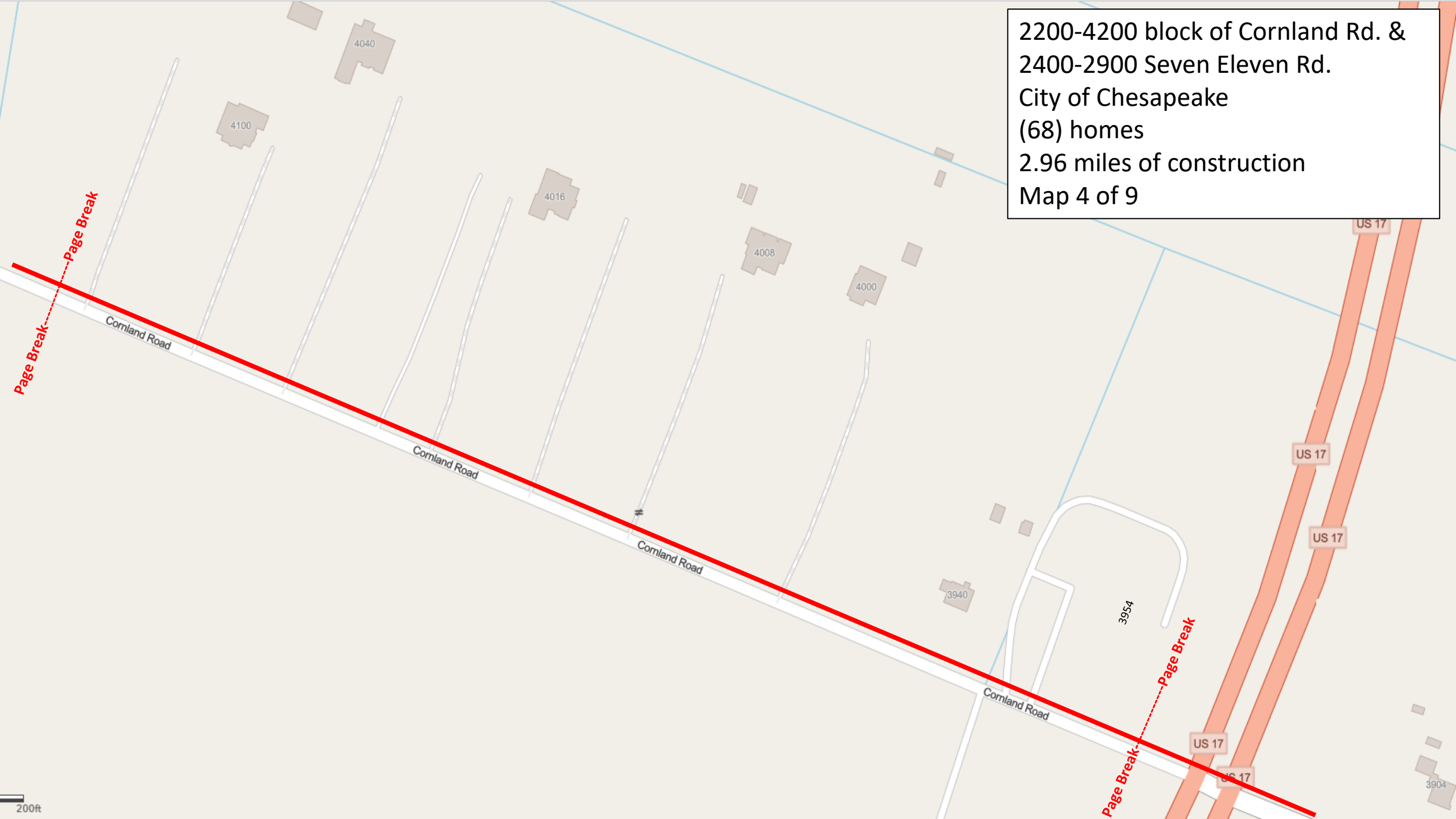
200ft

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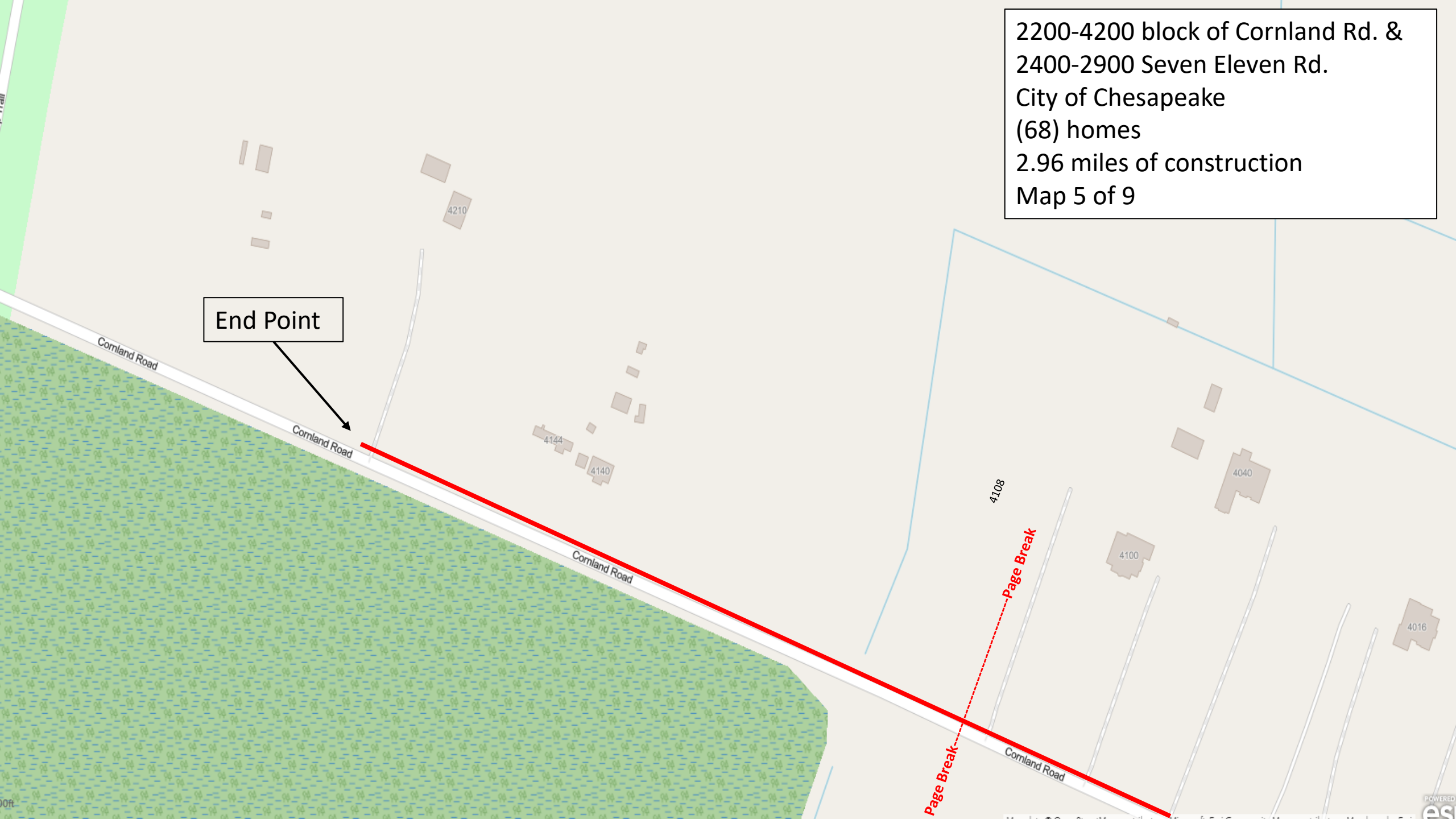
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2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 4 of 9



2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 5 of 9



End Point

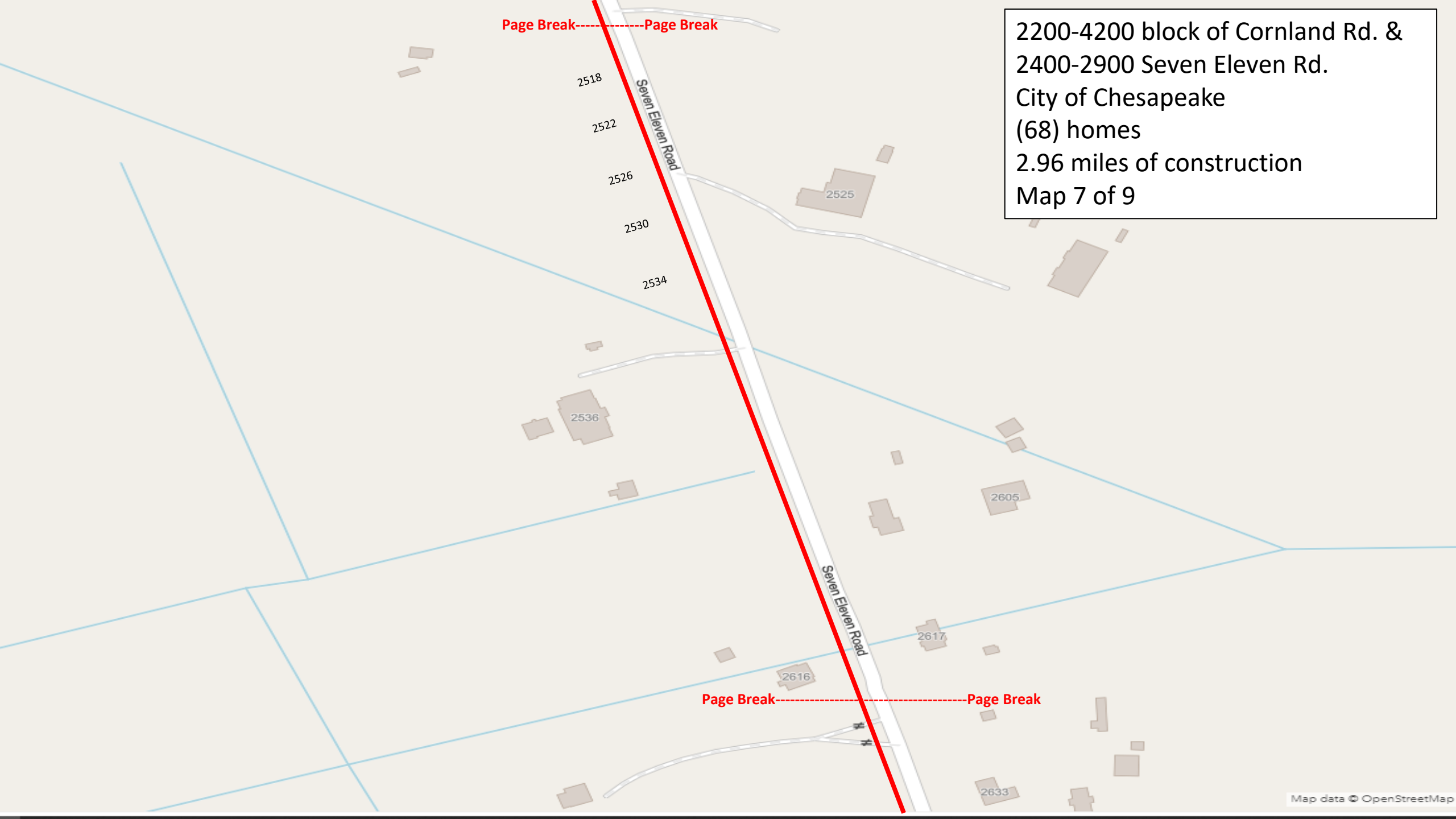
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Page Break

2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 6 of 9



2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 7 of 9



Page Break-----Page Break

Page Break-----Page Break

2626

Pleasant Grove Pent
Holiness Church

2632

2633

2640

2645

2704

2708

2716

2717

2728

2736

2737

Seven Eleven Road

Seven Eleven Road

2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 8 of 9

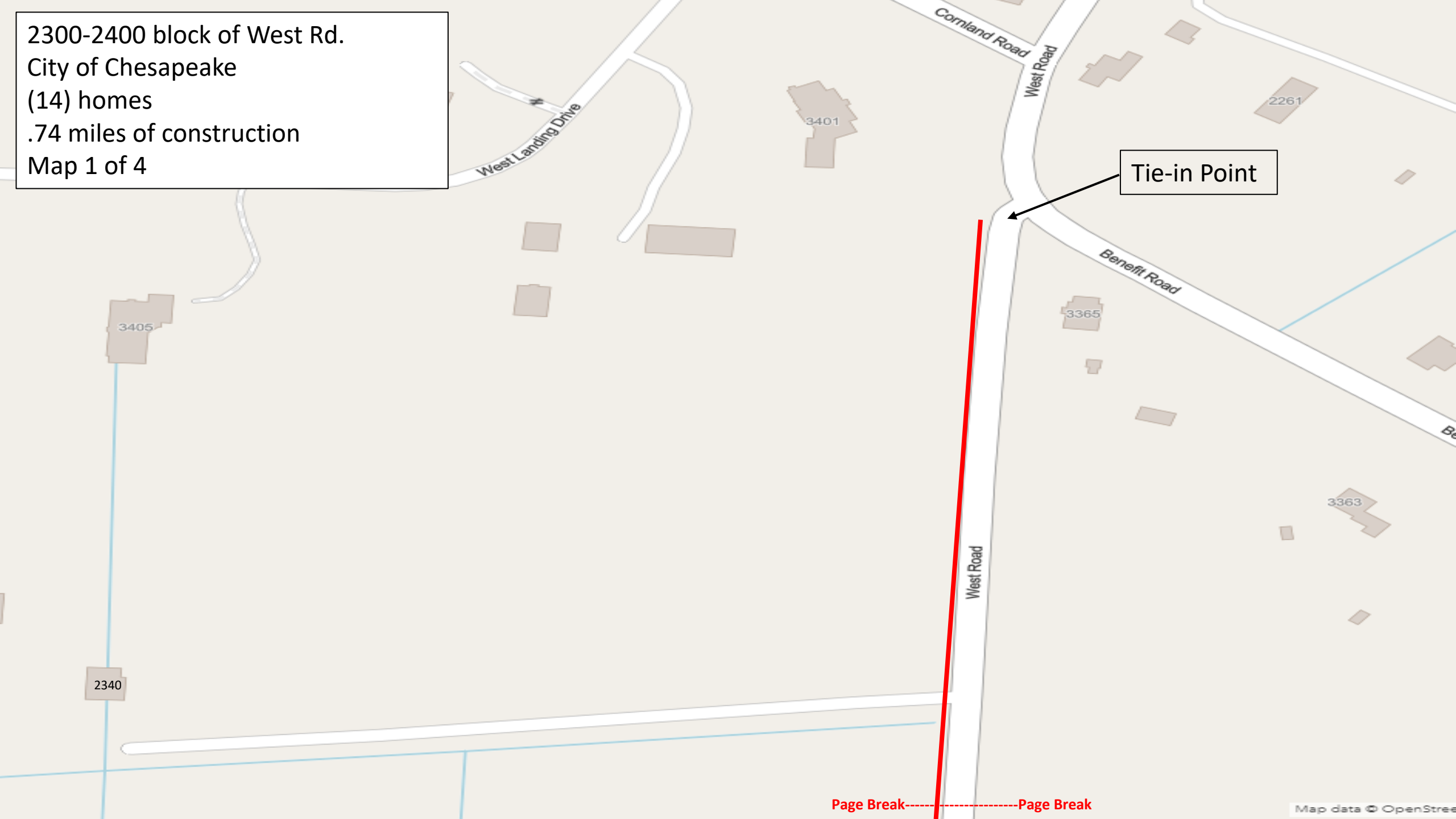
2200-4200 block of Cornland Rd. &
2400-2900 Seven Eleven Rd.
City of Chesapeake
(68) homes
2.96 miles of construction
Map 9 of 9

Page Break-----Page Break



End Point

2300-2400 block of West Rd.
City of Chesapeake
(14) homes
.74 miles of construction
Map 1 of 4



2340

2300-2400 block of West Rd.
City of Chesapeake
(14) homes
.74 miles of construction
Map 2 of 4

Page Break-----Page Break

2341

West Road
West Road

2361

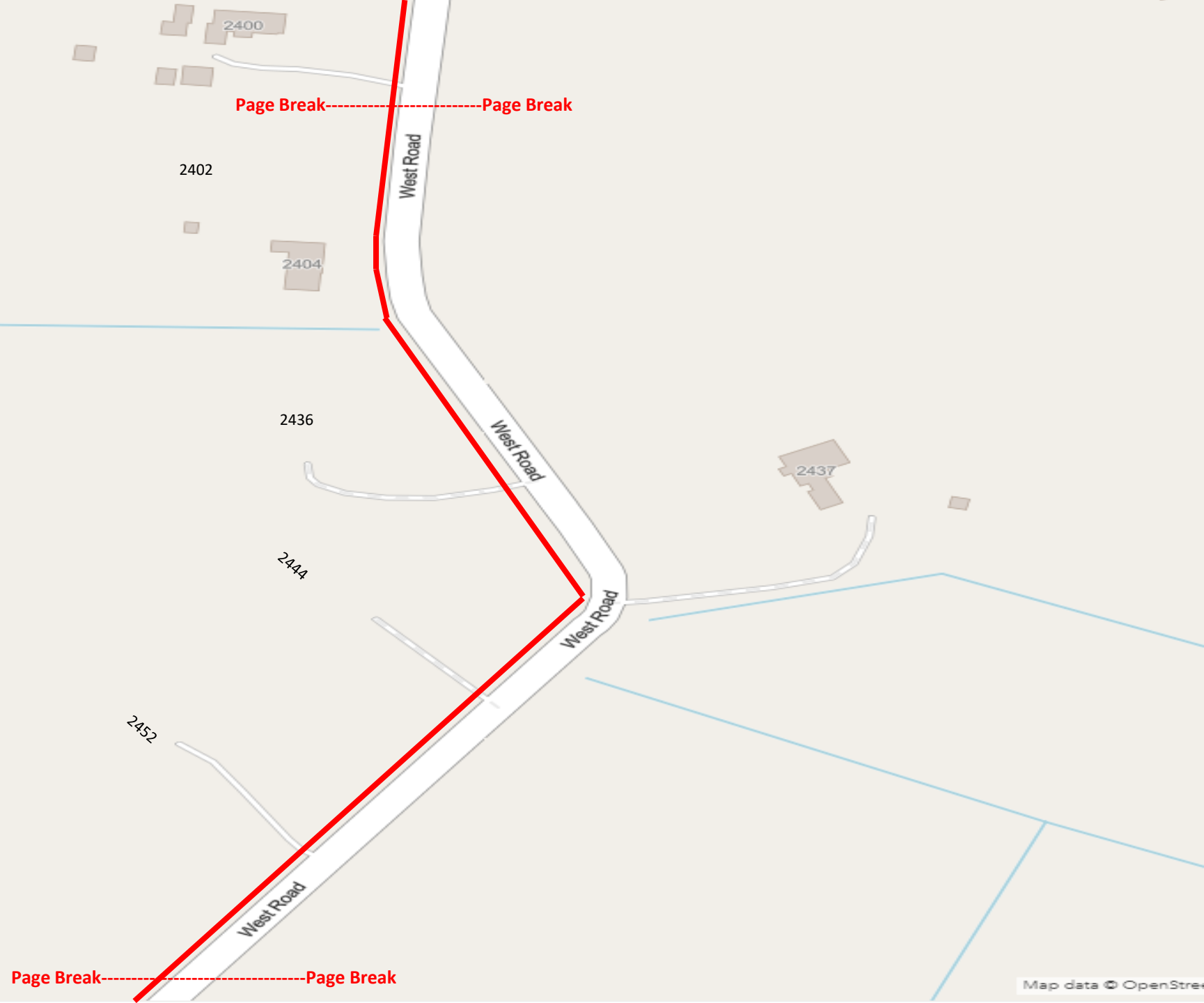
2358

2400

2353

Page Break-----Page Break

2300-2400 block of West Rd.
City of Chesapeake
(14) homes
.74 miles of construction
Map 3 of 4



2300-2400 block of West Rd.
City of Chesapeake
(14) homes
.74 miles of construction
Map 4 of 4



Page Break-----Page Break

End Point

3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 1 of 7

Tie-in Point



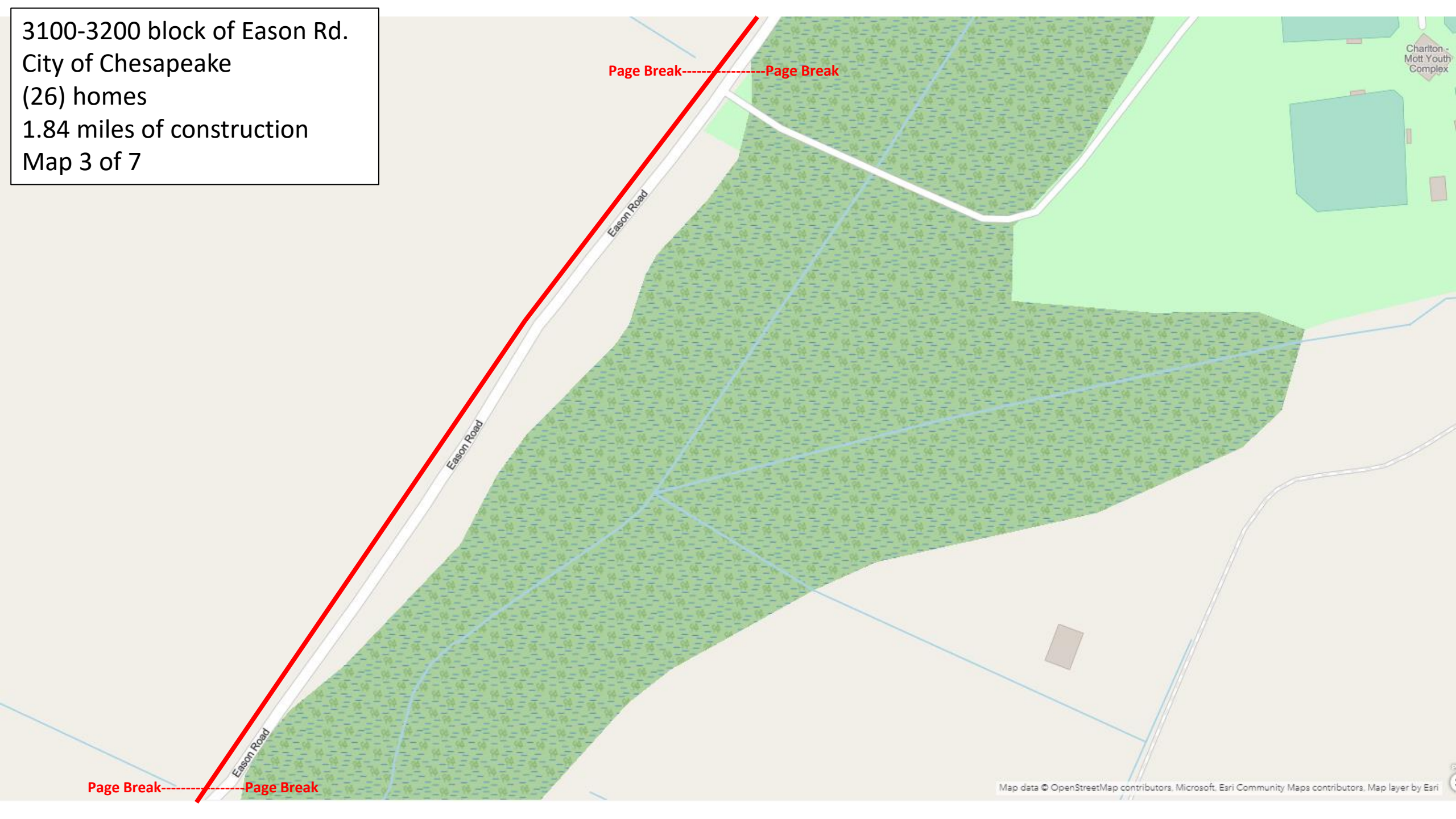
3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 2 of 7

Page Break-----Page Break

Page Break-----Page Break



3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 3 of 7



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Page Break-----Page Break

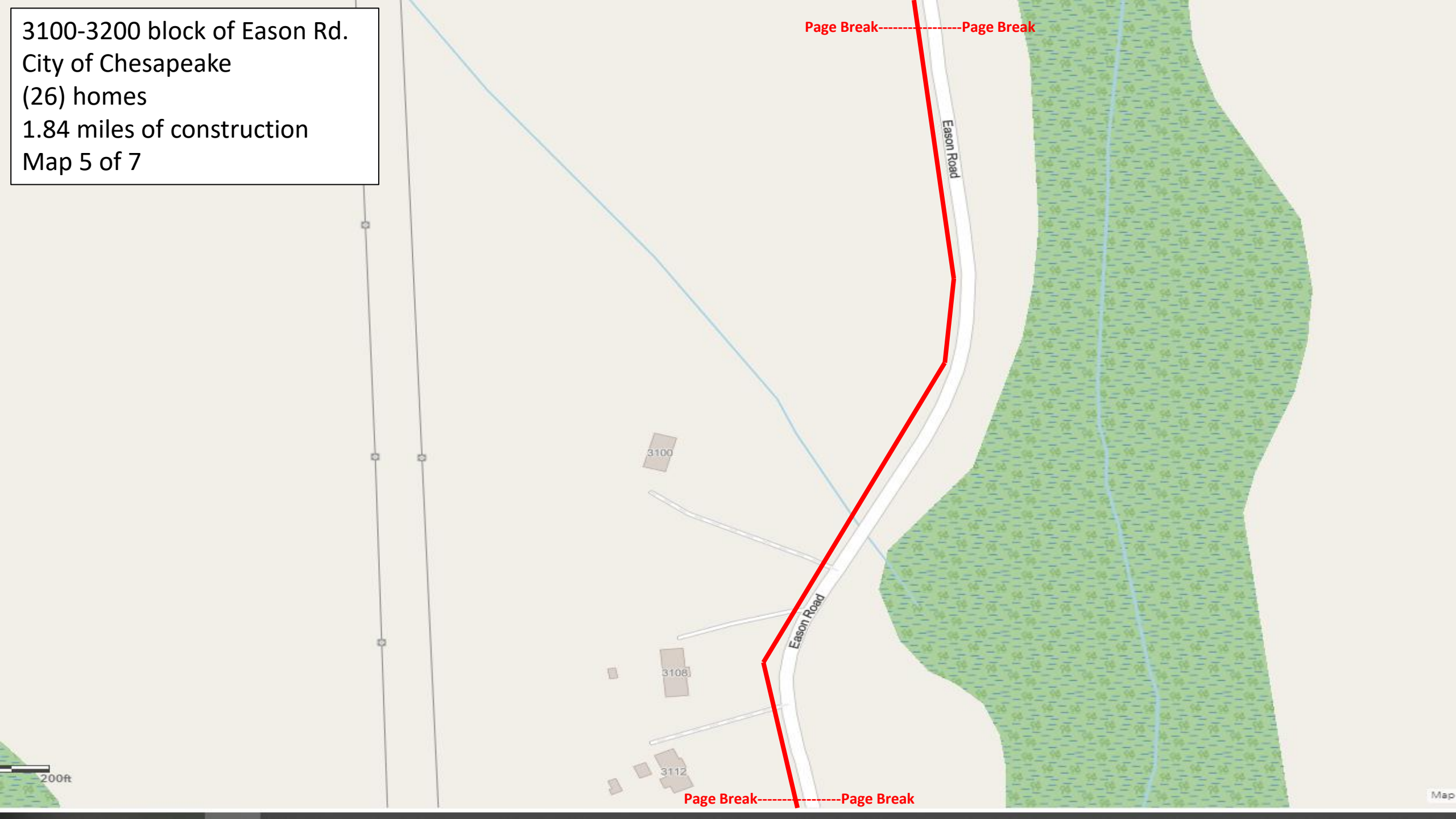
3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 4 of 7

Page Break-----Page Break

Page Break-----Page Break

3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 5 of 7

Page Break-----Page Break



3100

3108

3112

Eason Road

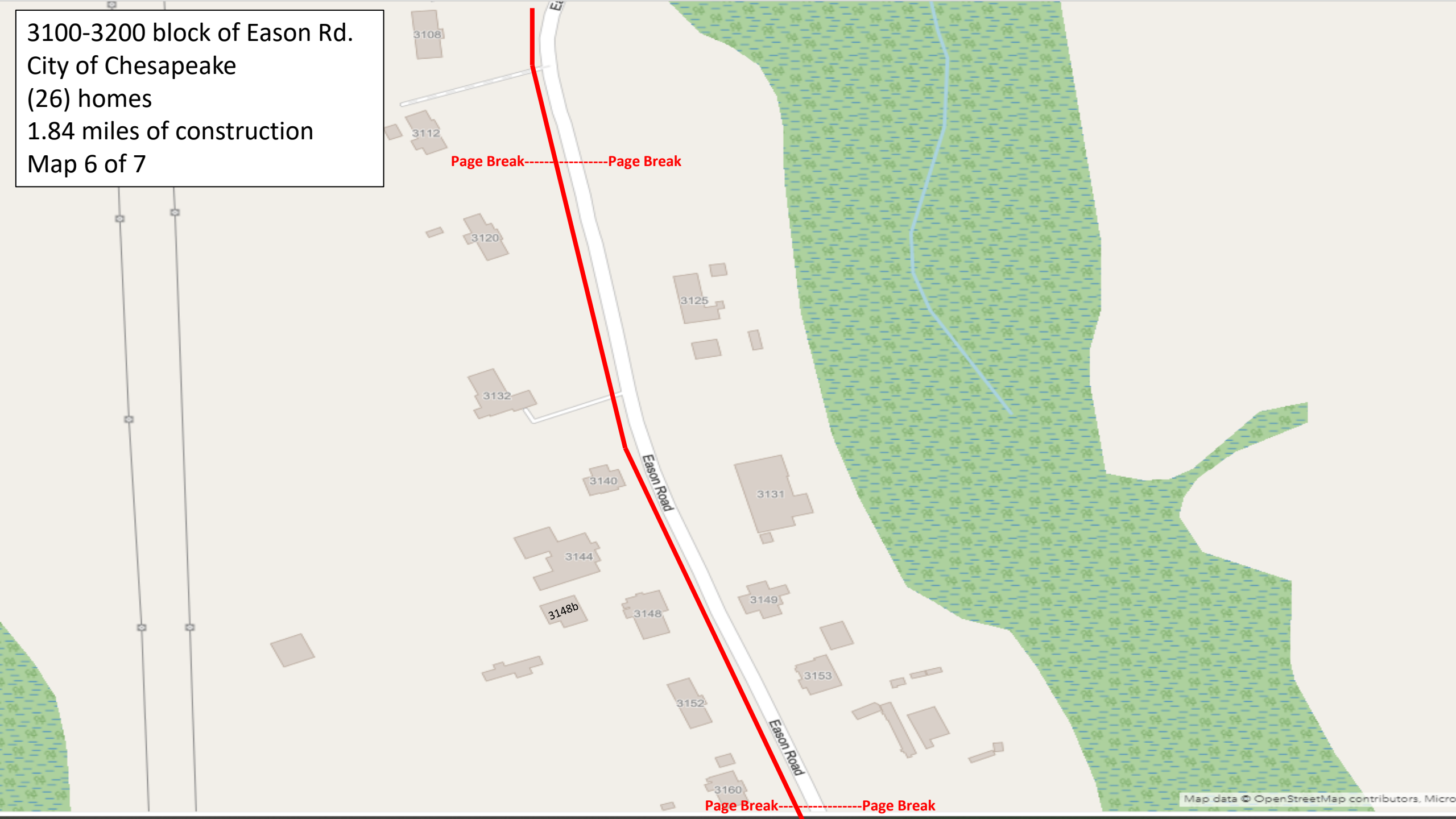
Eason Road

200ft

Page Break-----Page Break

Map

3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 6 of 7



3108

3112

3120

3132

3140

3144

3148b

3148

3152

3160

3125

3131

3149

3153

Page Break-----Page Break

Page Break-----Page Break

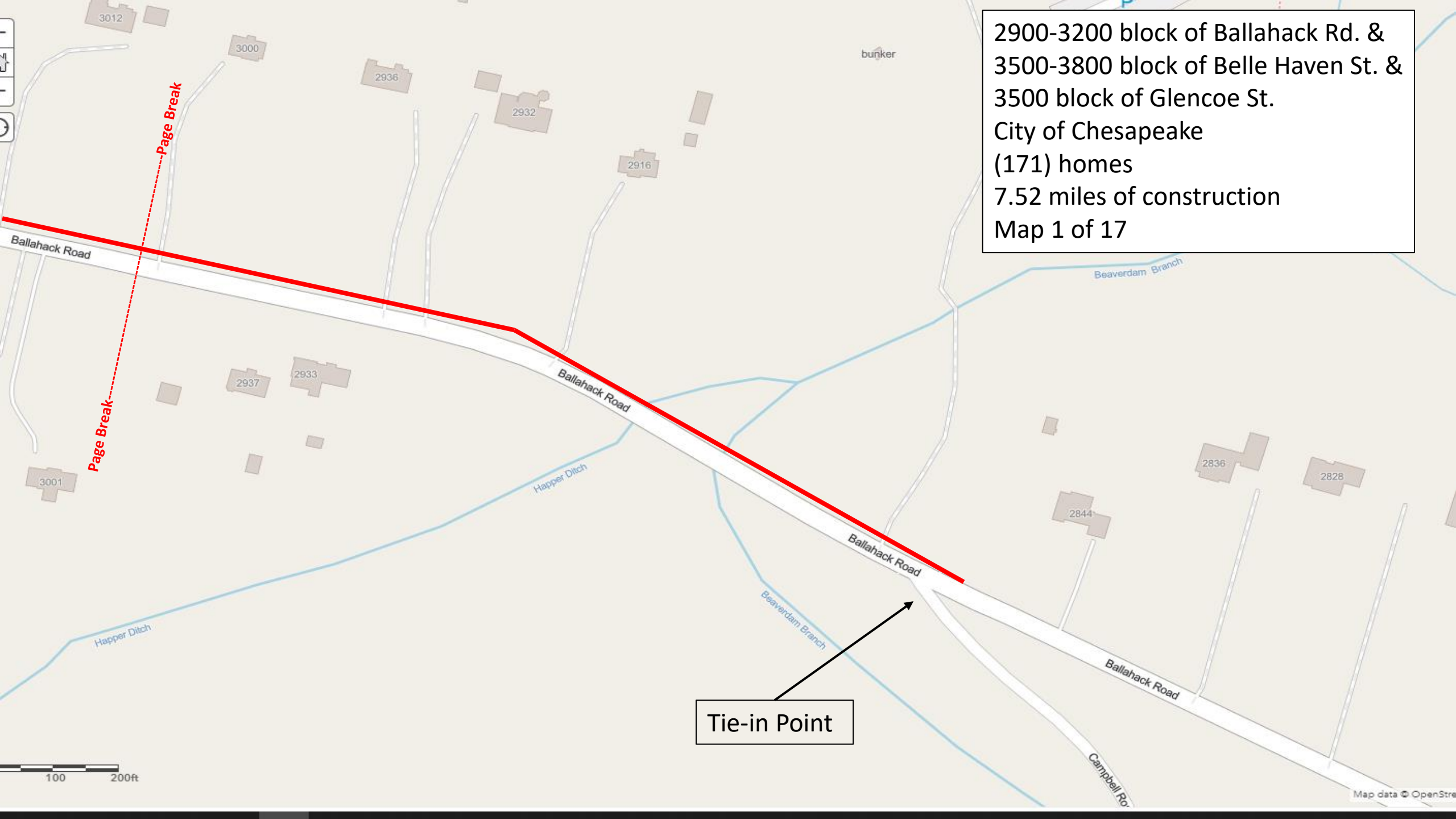
3100-3200 block of Eason Rd.
City of Chesapeake
(26) homes
1.84 miles of construction
Map 7 of 7



Page Break-----Page Break

End Point

2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 1 of 17



Page Break

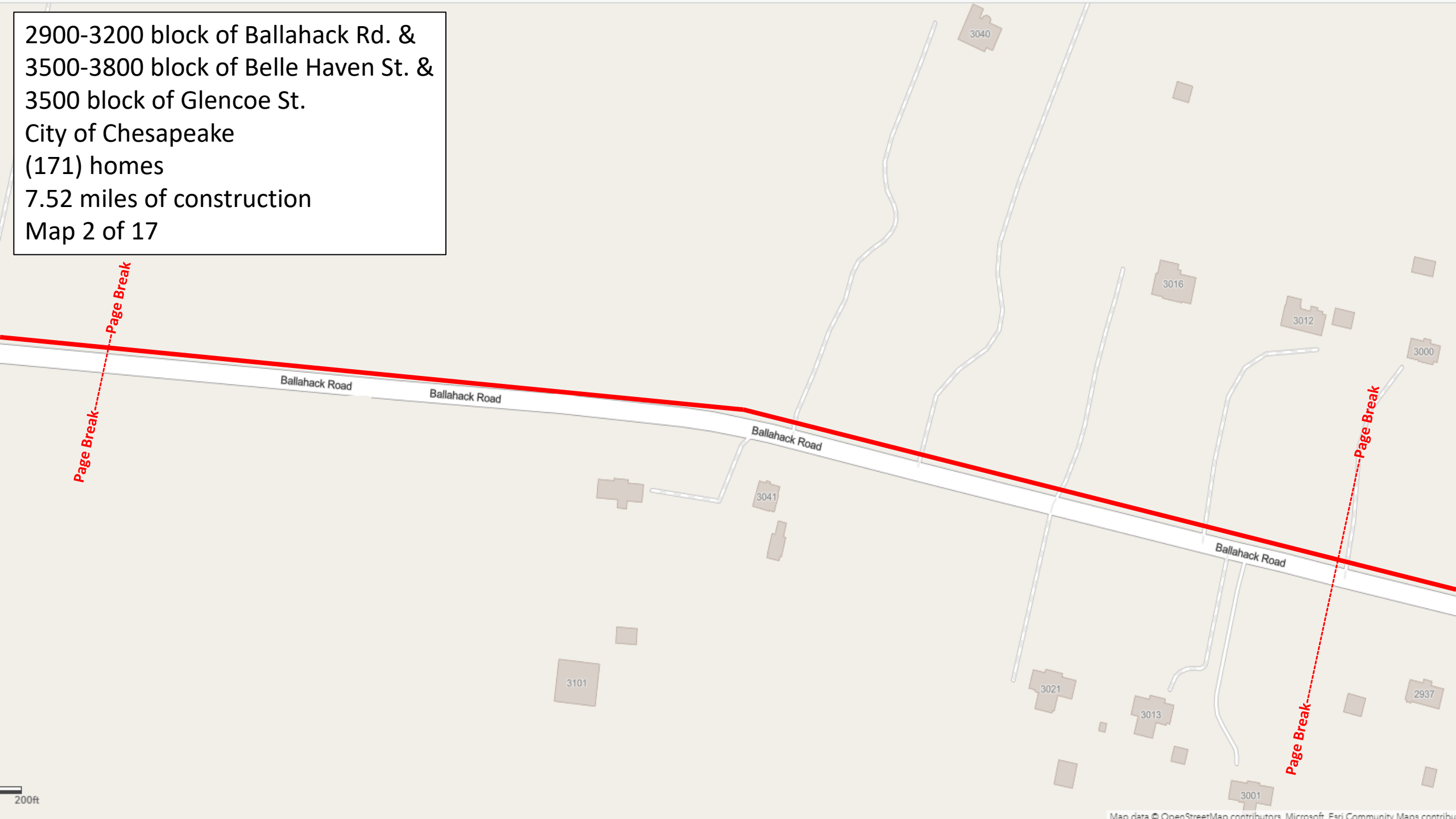
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Tie-in Point

100 200ft

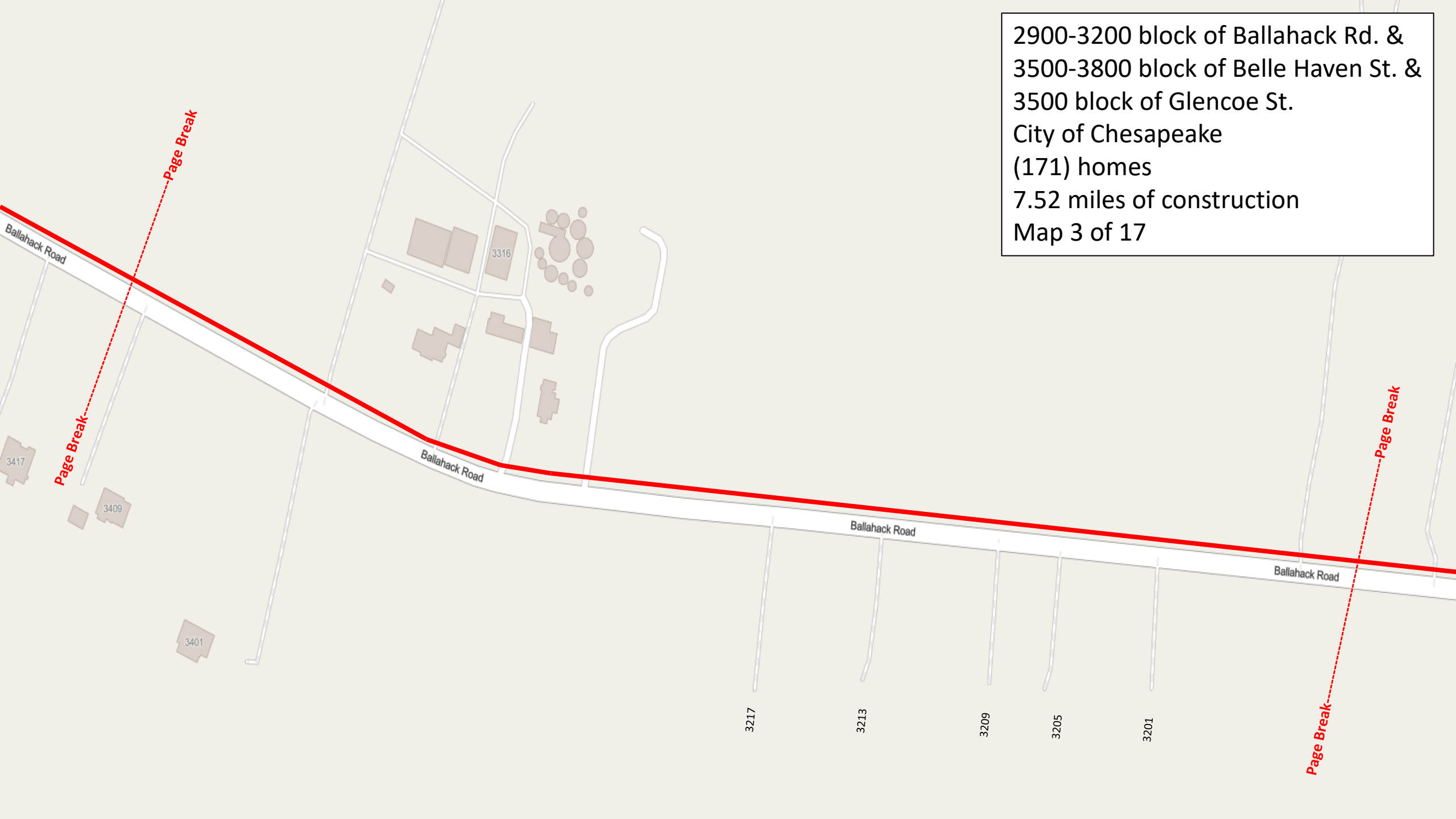
Map data © OpenStreetMap

2900-3200 block of Ballahack Rd. &
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3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 2 of 17

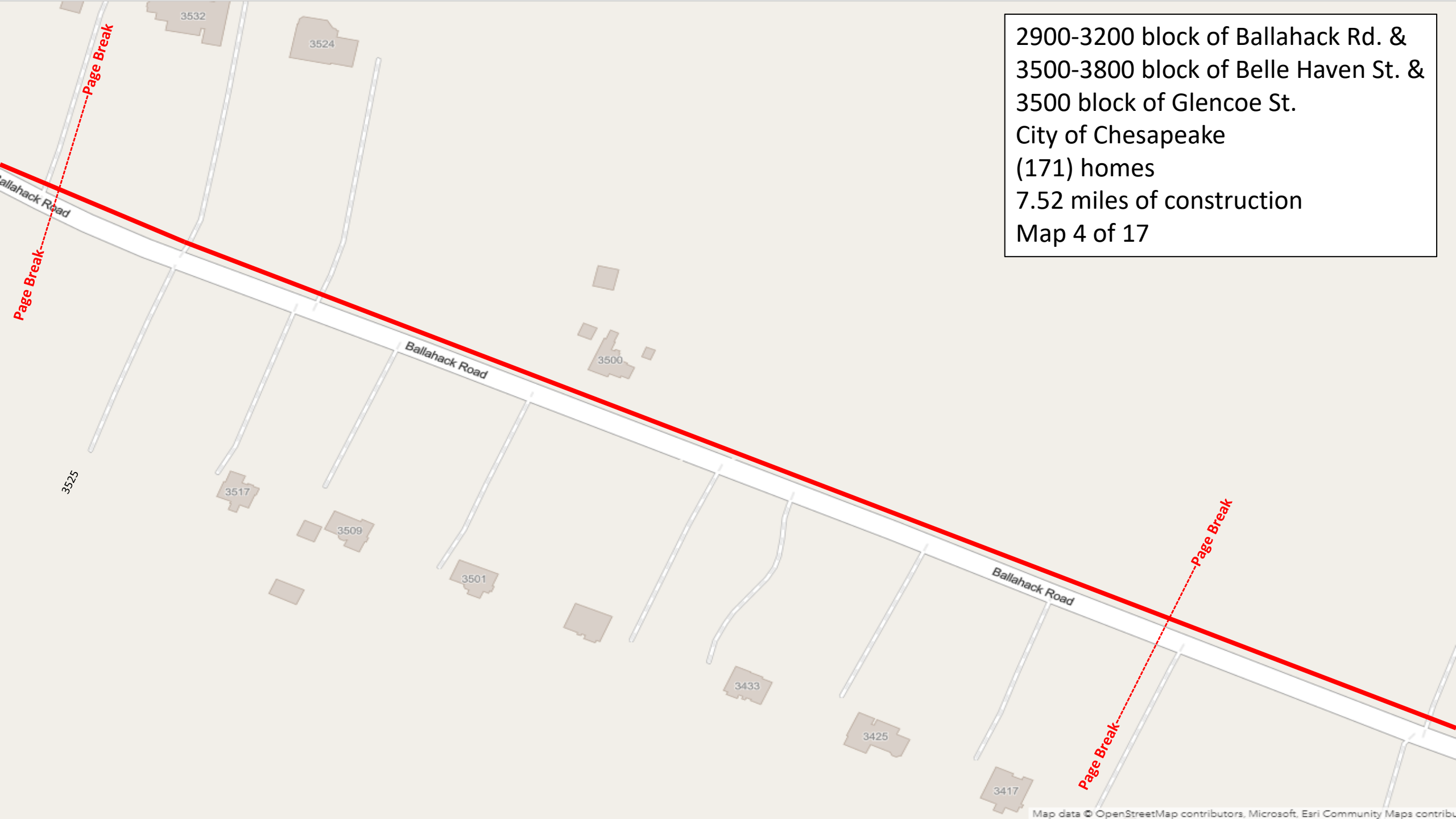


200ft

2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 3 of 17



2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 4 of 17

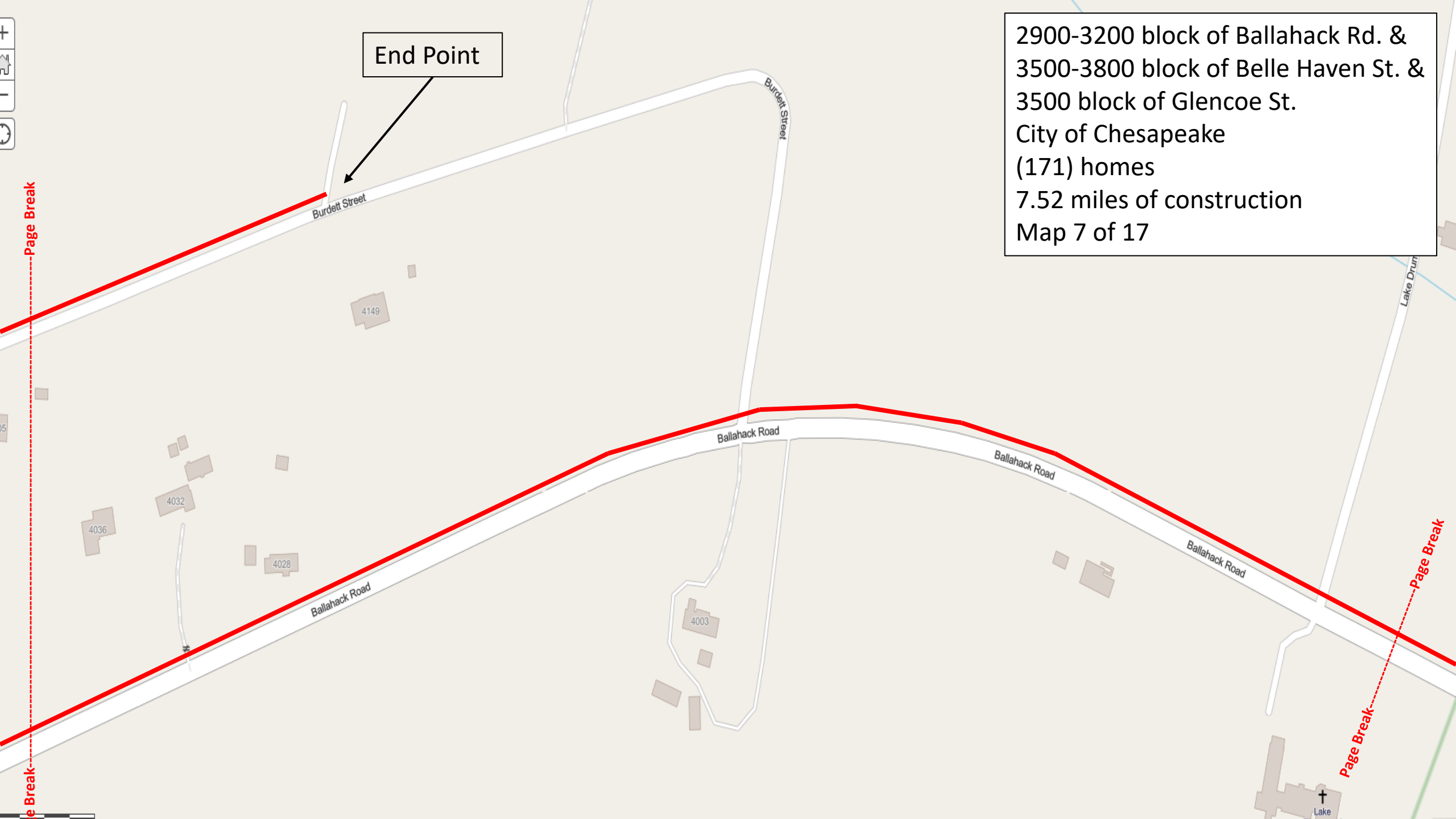


2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 5 of 17





2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 6 of 17



End Point

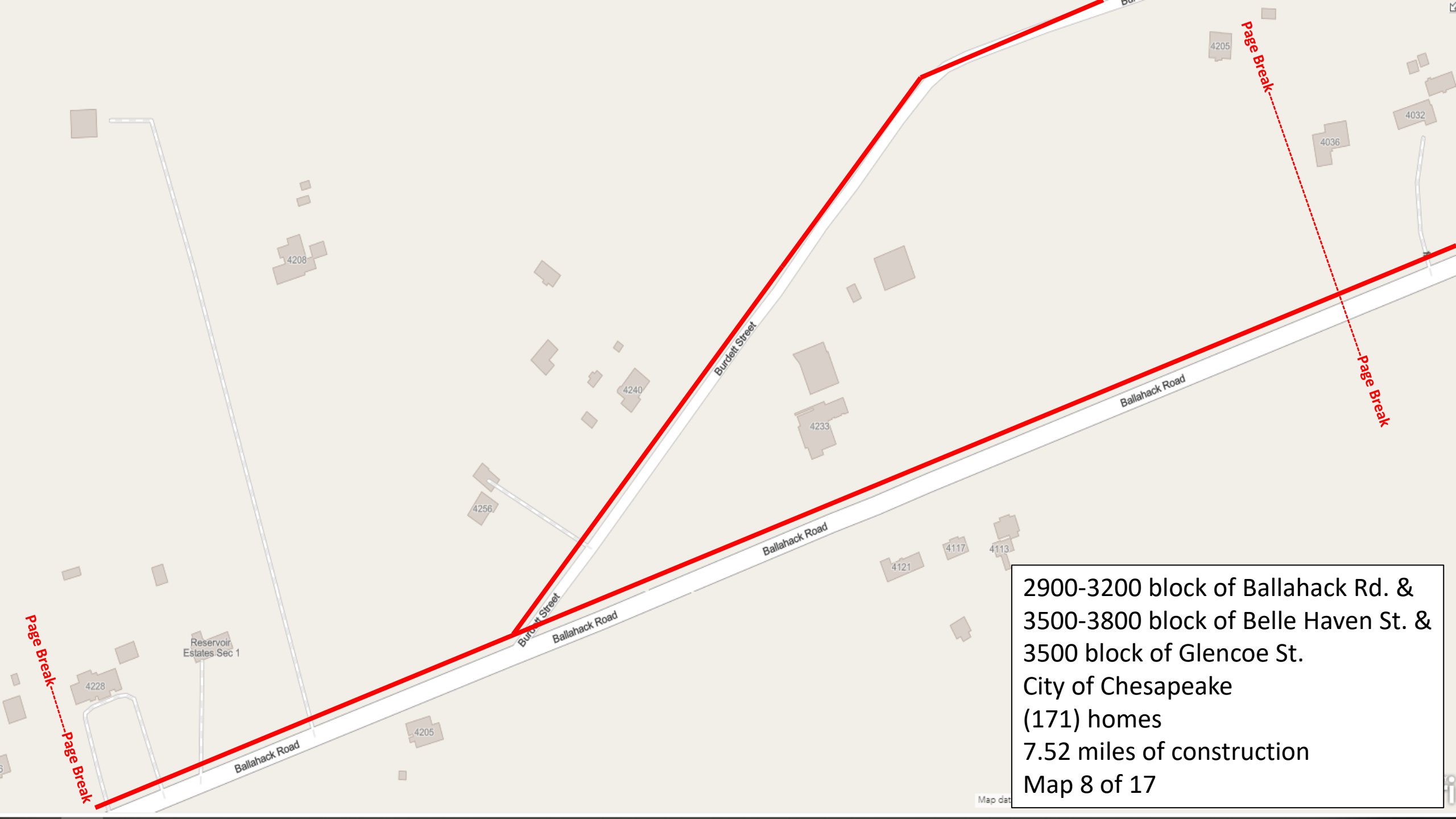
2900-3200 block of Ballahack Rd. &
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3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 7 of 17

Page Break

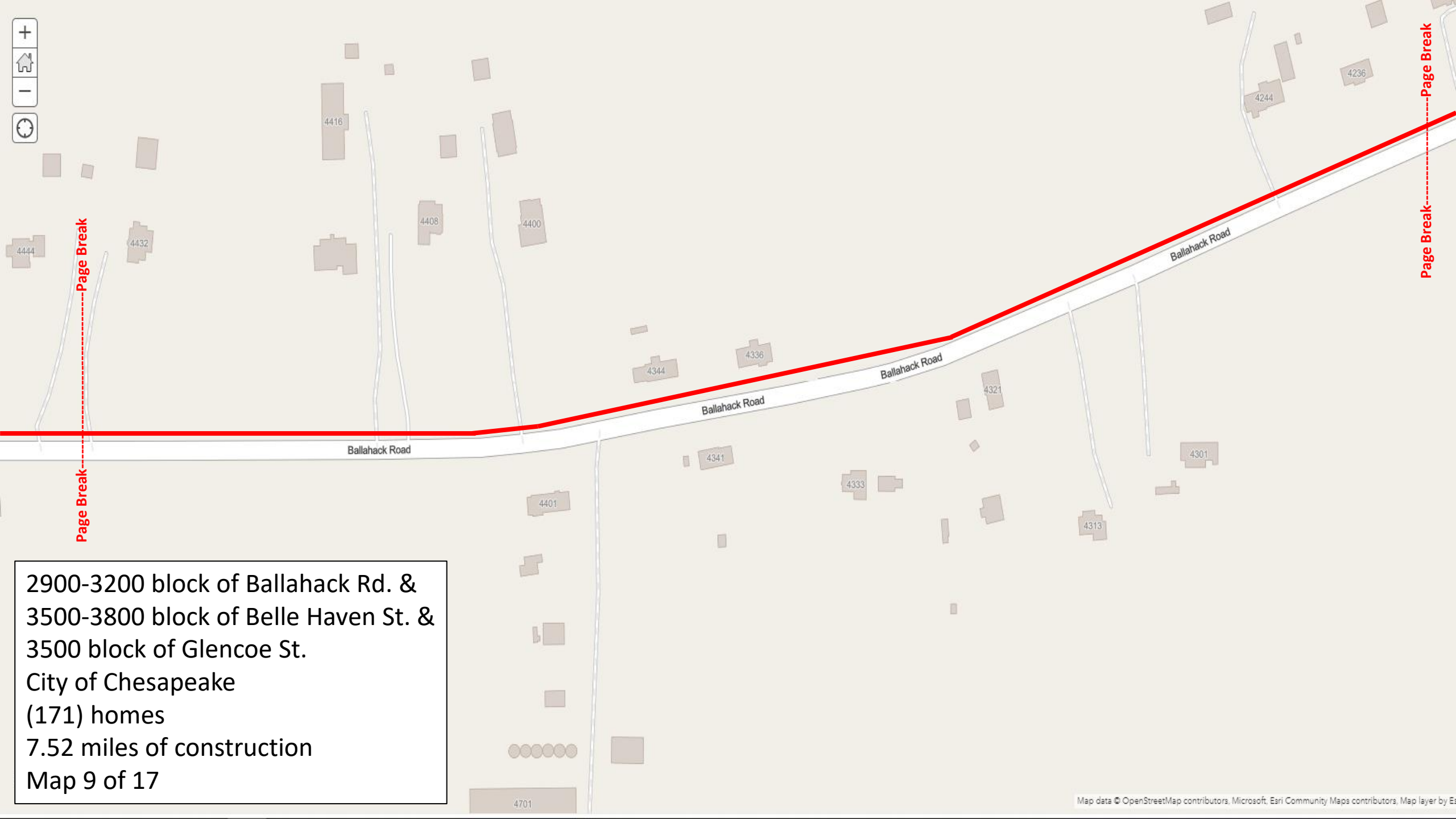
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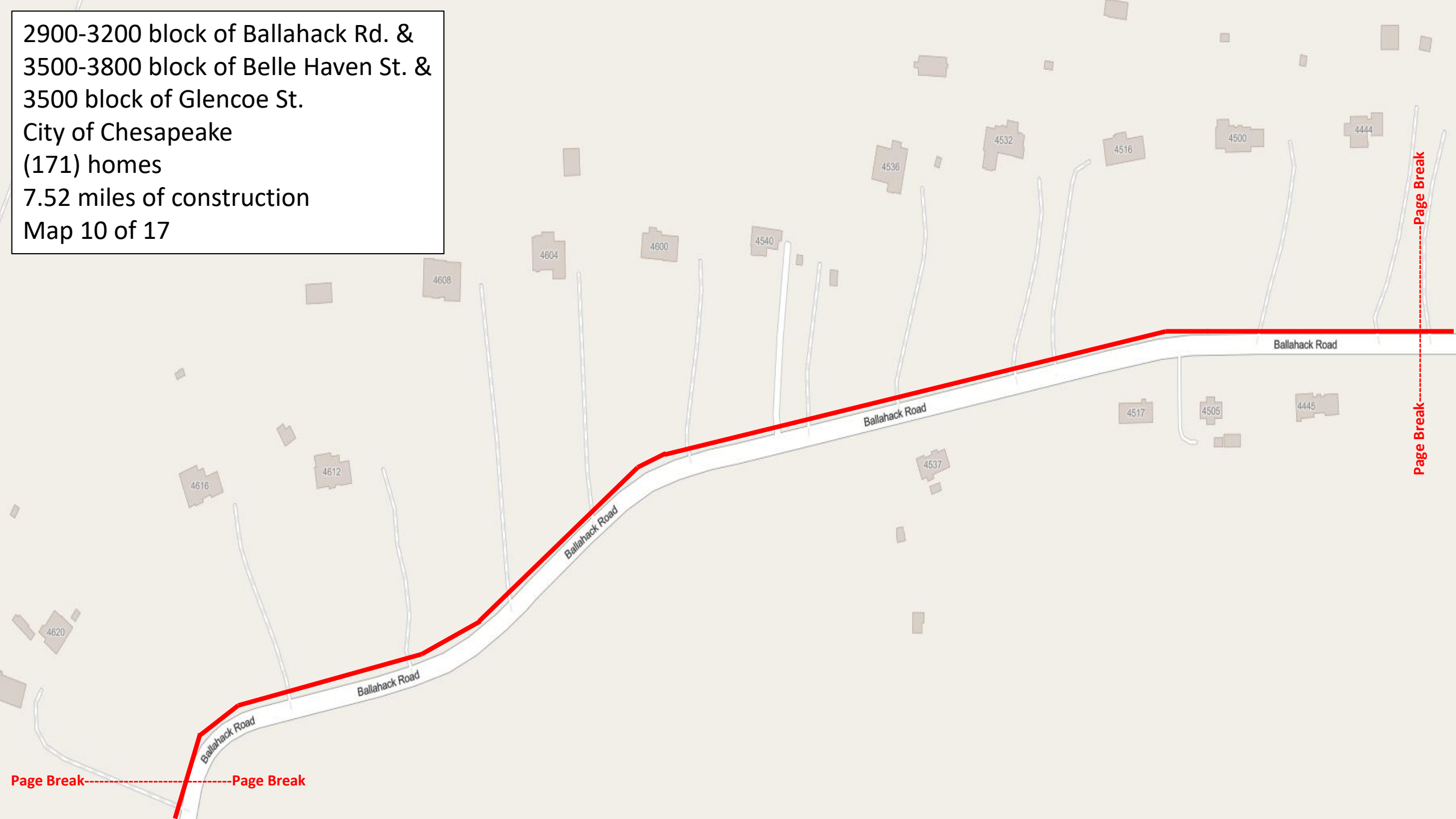


2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 8 of 17



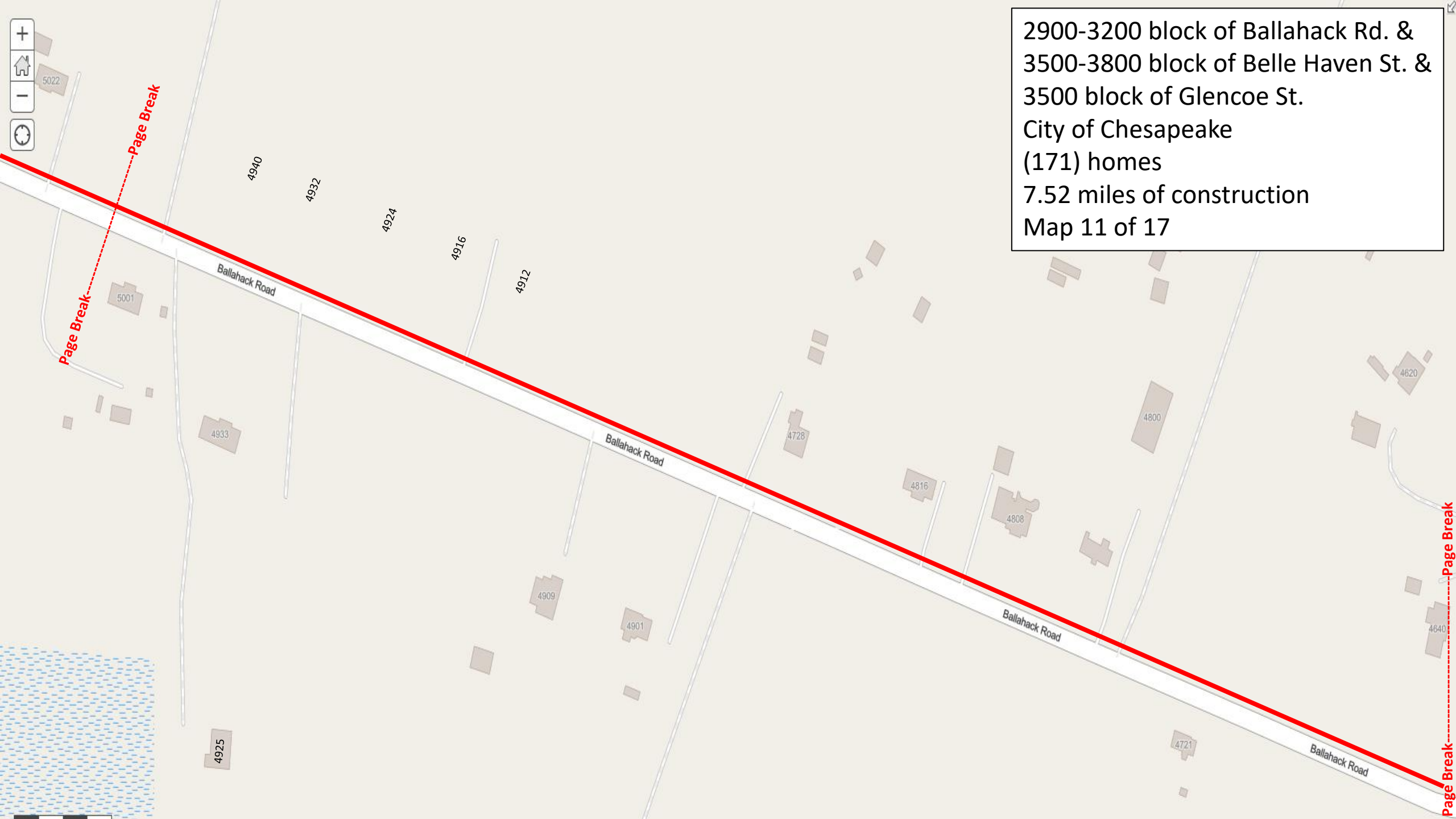
2900-3200 block of Ballahack Rd. &
 3500-3800 block of Belle Haven St. &
 3500 block of Glencoe St.
 City of Chesapeake
 (171) homes
 7.52 miles of construction
 Map 9 of 17

2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 10 of 17

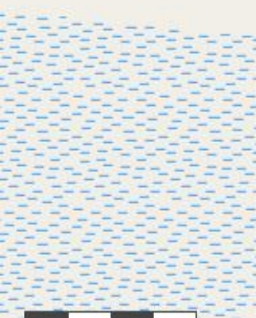


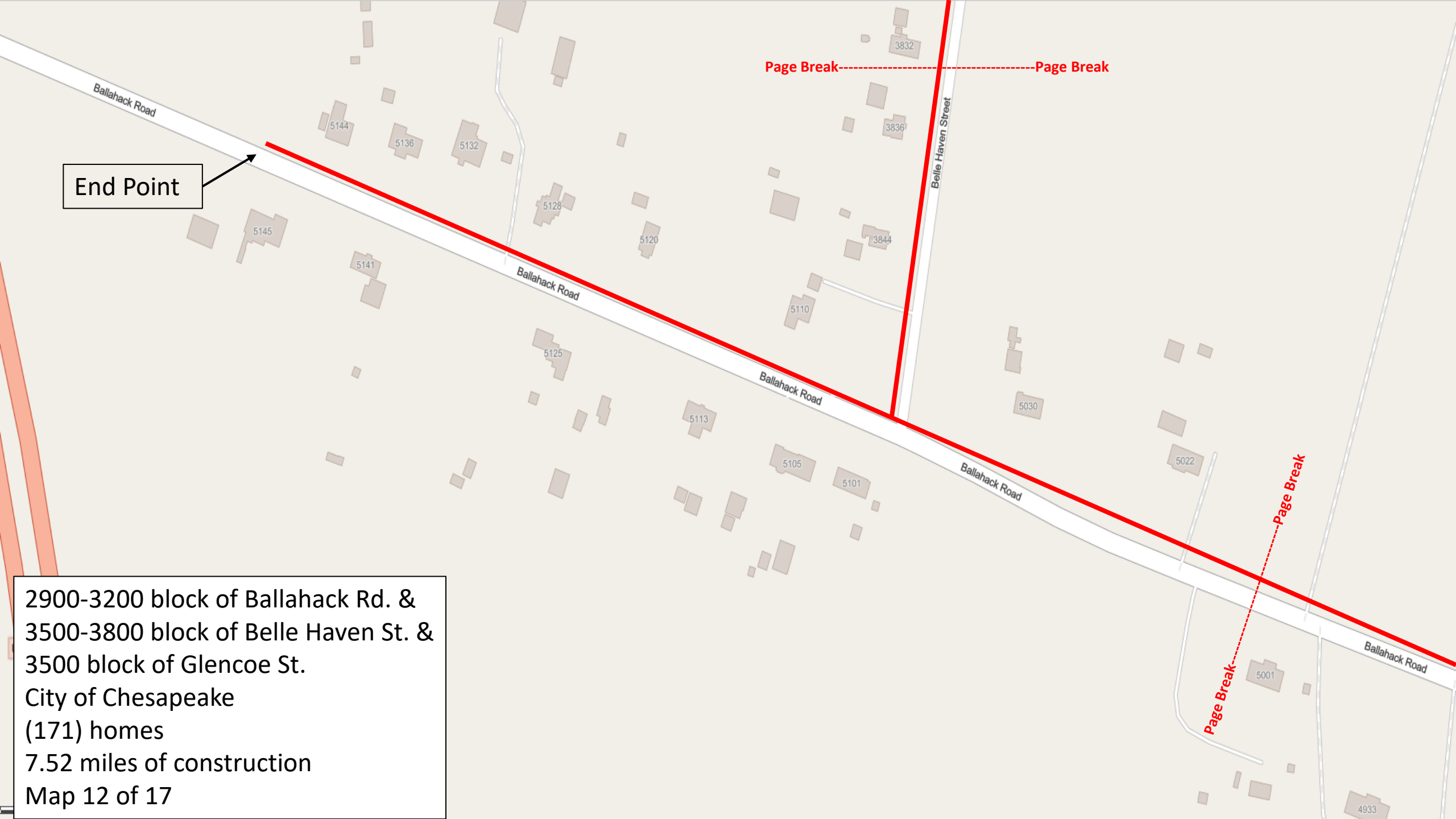
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2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 11 of 17





End Point

Page Break

Page Break

2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 12 of 17

2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 13 of 17

Page Break

Page Break

3728

3729

Belle Haven Street

3805

3845

3824

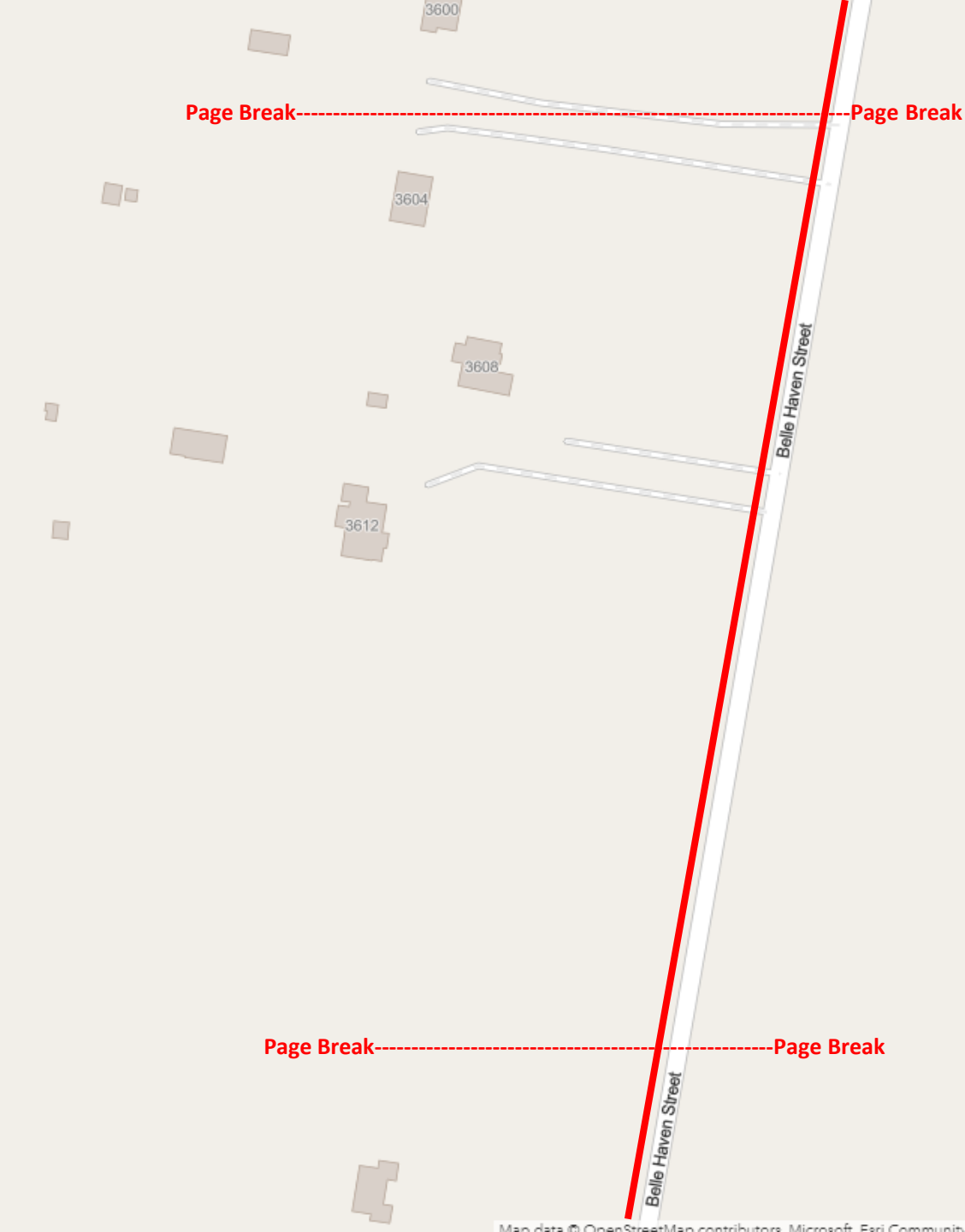
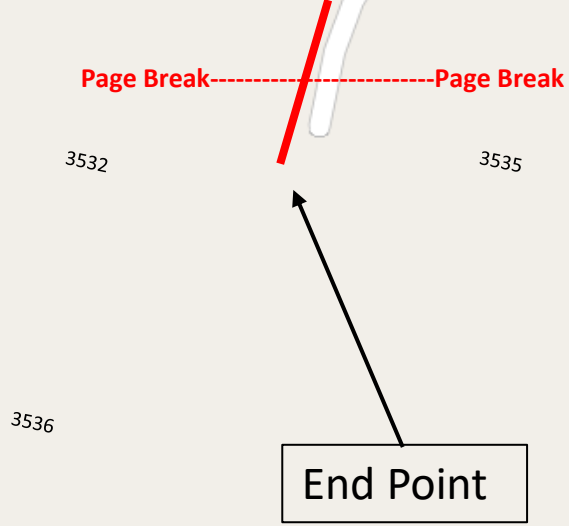
3832

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2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 14 of 17





2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 15 of 17

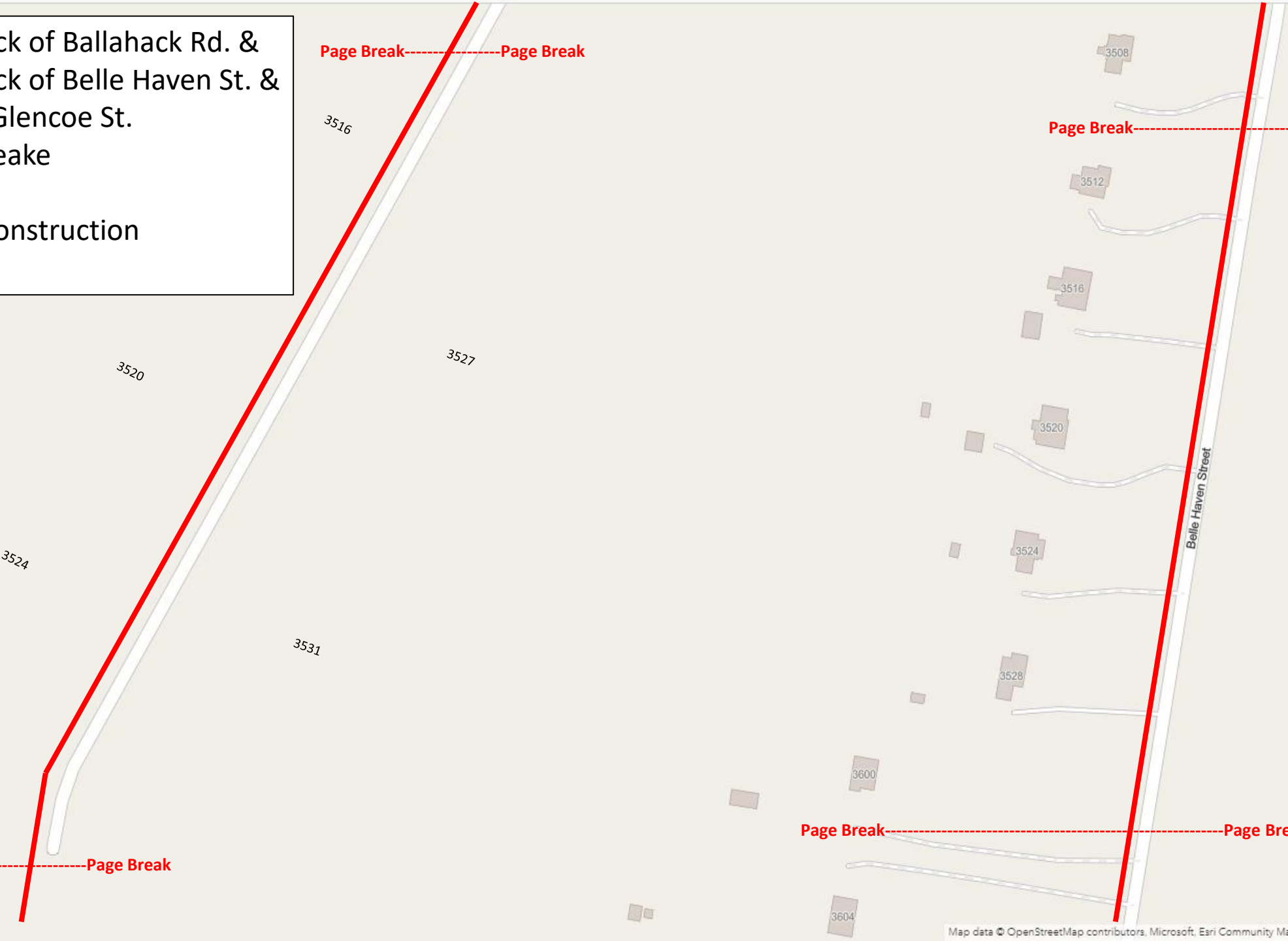
2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 16 of 17

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Page Break-----Page Break

Page Break-----Page Break

Page Break-----Page Break



2900-3200 block of Ballahack Rd. &
3500-3800 block of Belle Haven St. &
3500 block of Glencoe St.
City of Chesapeake
(171) homes
7.52 miles of construction
Map 17 of 17



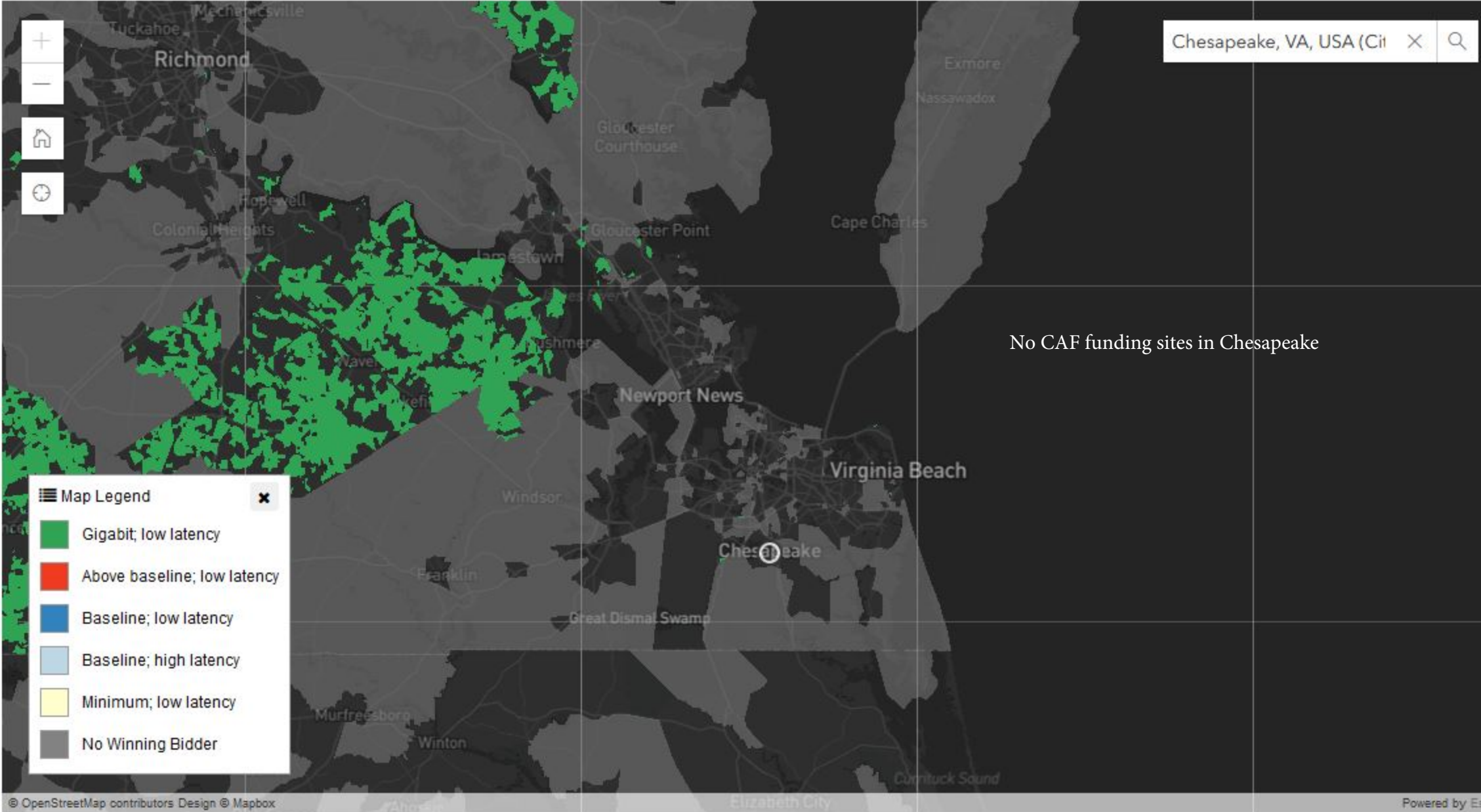
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Connect America Fund Phase II: Auction 903 Results

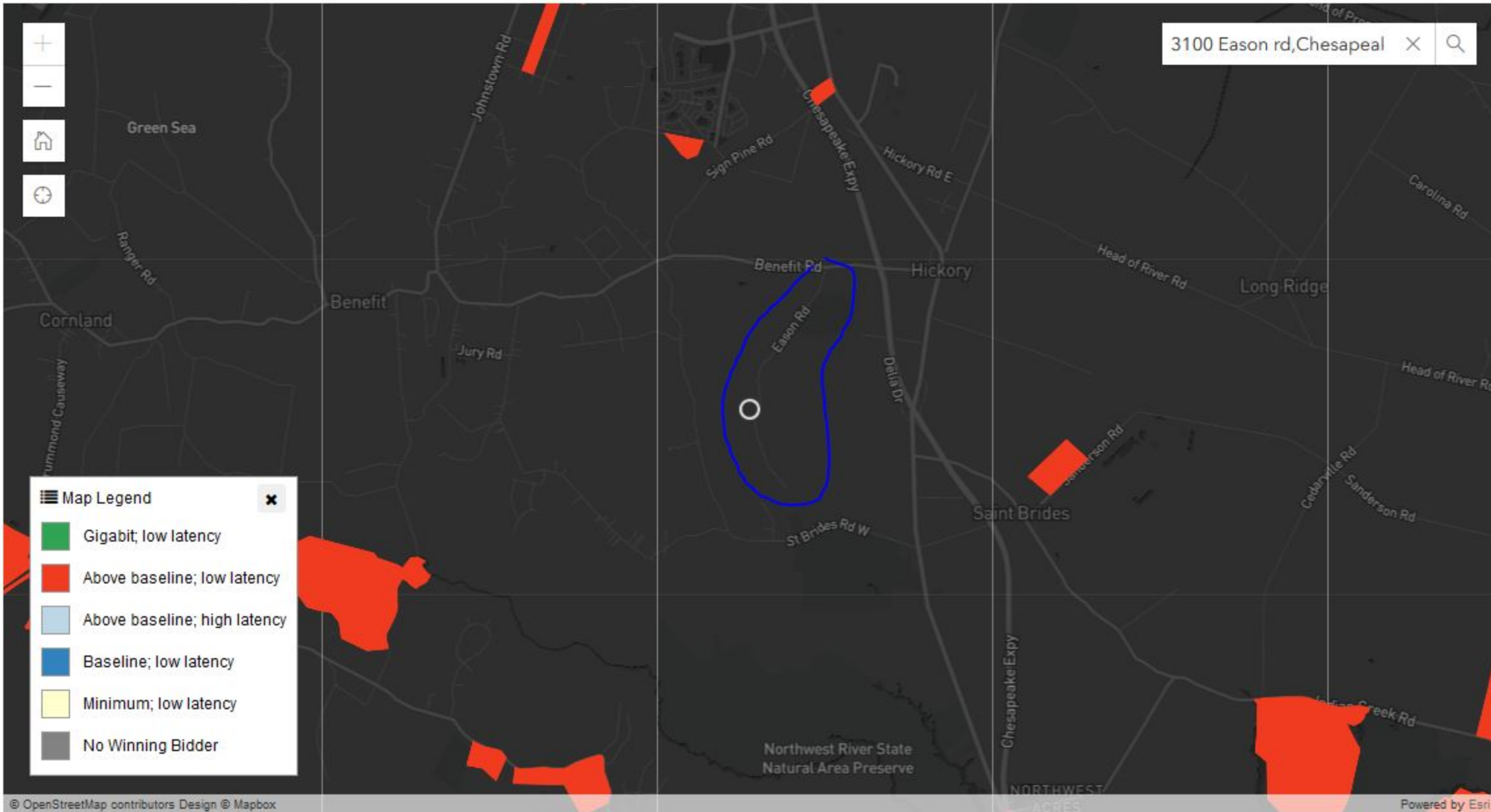
Data as of 8/28/18



Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20

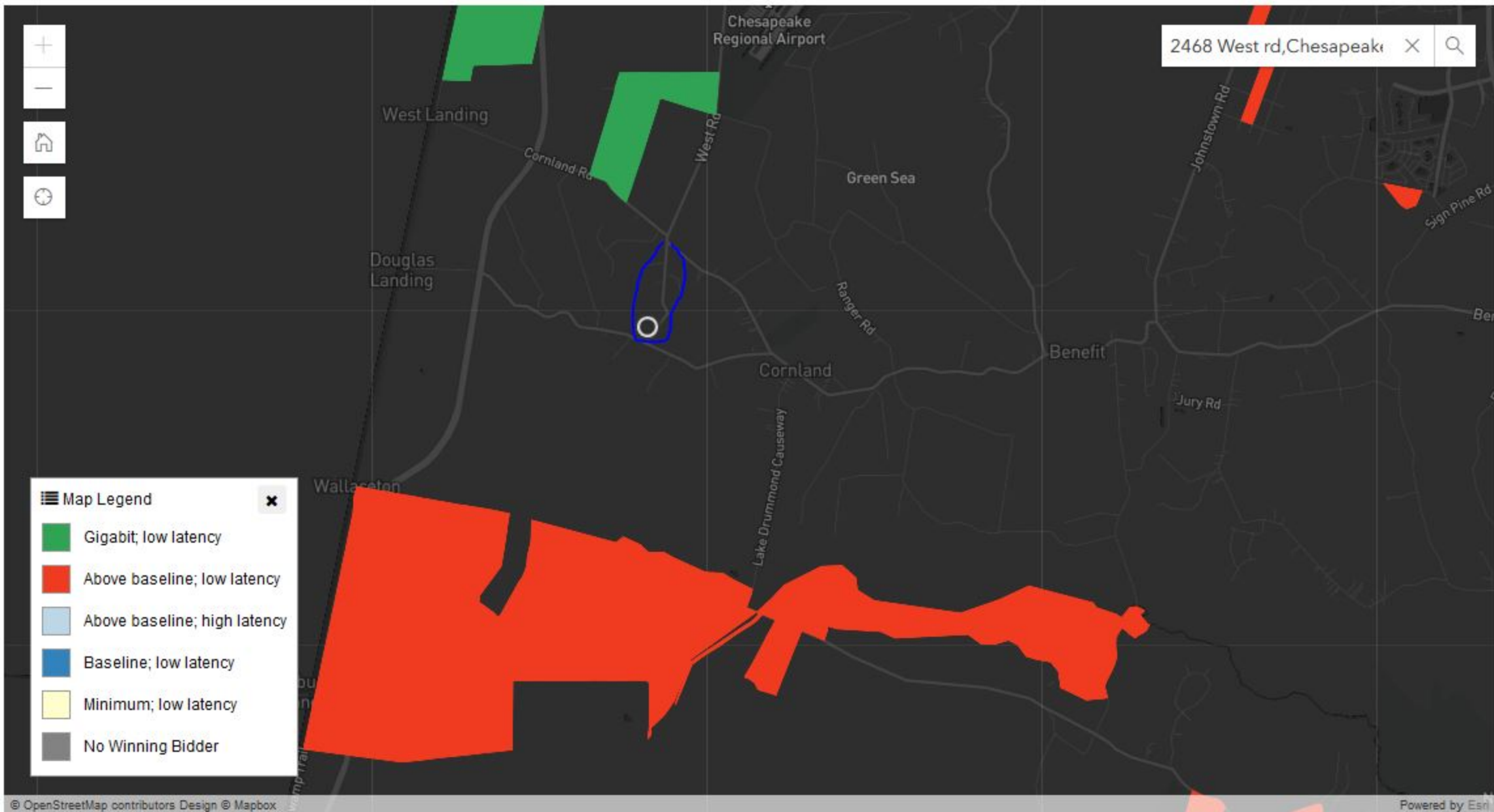
No RDOF coverage on Eason portion of project



Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20

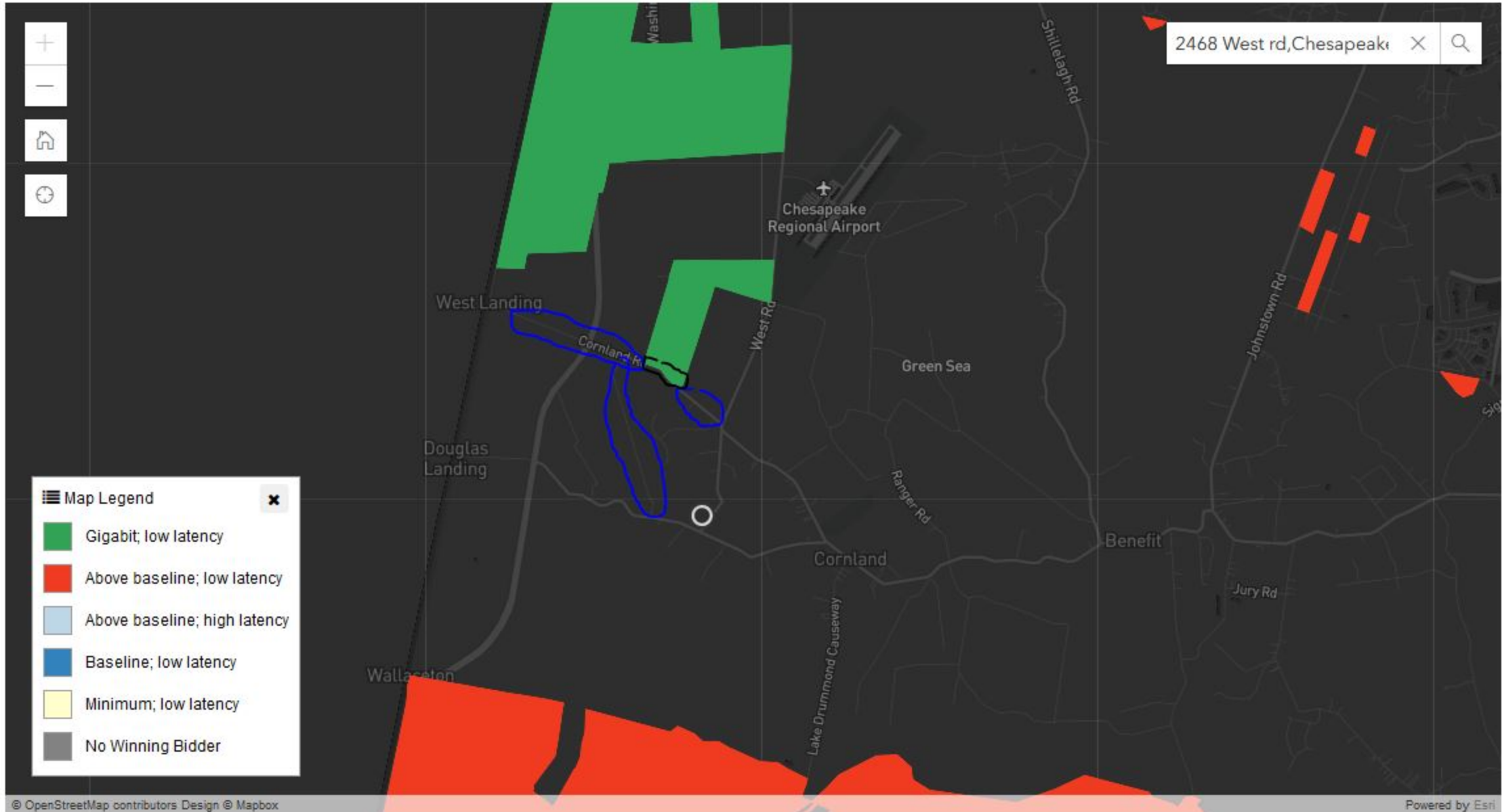
No RDOF coverage on West portion of project



Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20

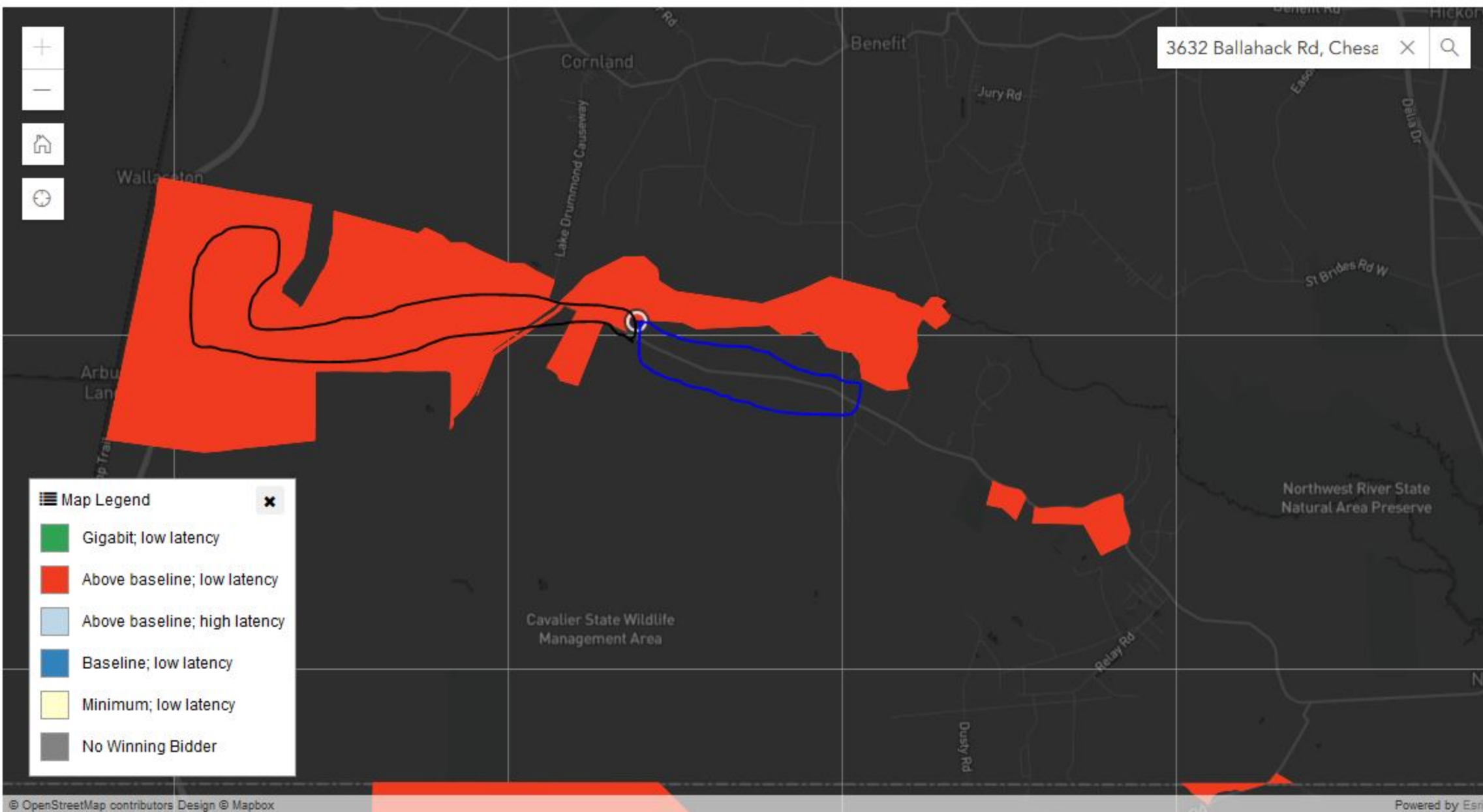
Four (4) homes in black have possible RDOF coverage on Cornland portion of project



Rural Digital Opportunity Fund Phase I Results

Data as of 12/07/20

124 homes in black have possible RDOF satellite coverage on Ballahack, Burdett, & Belle Haven portion of the project



2022 Virginia Telecommunication Initiative (VATI) RDOF Passings Form

Type of Passings	Total Number of Passings in the Project Area that lie within Preliminarily Awarded RDOF Areas ¹
Residential	4
Businesses (non-home based)	0
Businesses (home-based)	0
Community Anchors	0
Non-residential	0
Total Number of RDOF Passings	4

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

Definitions

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

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

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

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

In the following map we do not agree with CIT or Virginia Tech's assessment of fiber coverage in the southwest portion of our City that would offer coverage. The more telling sign that CIT and Virginia Tech are incorrect about their coverage map is the fact that they have fiber coverage in non-contiguous blocks which is not how fiber is installed. These supposed non-contiguous fiber coverage areas are also cut by unserved areas on the map as well. Since Verizon had stopped installing fiber over five years ago in our City and Cox is partnering with us to attempt to achieve universal coverage according to their maps, are partnership is trying to make the CIT and Virginia Tech maps factual.



Va. Funding Query Results

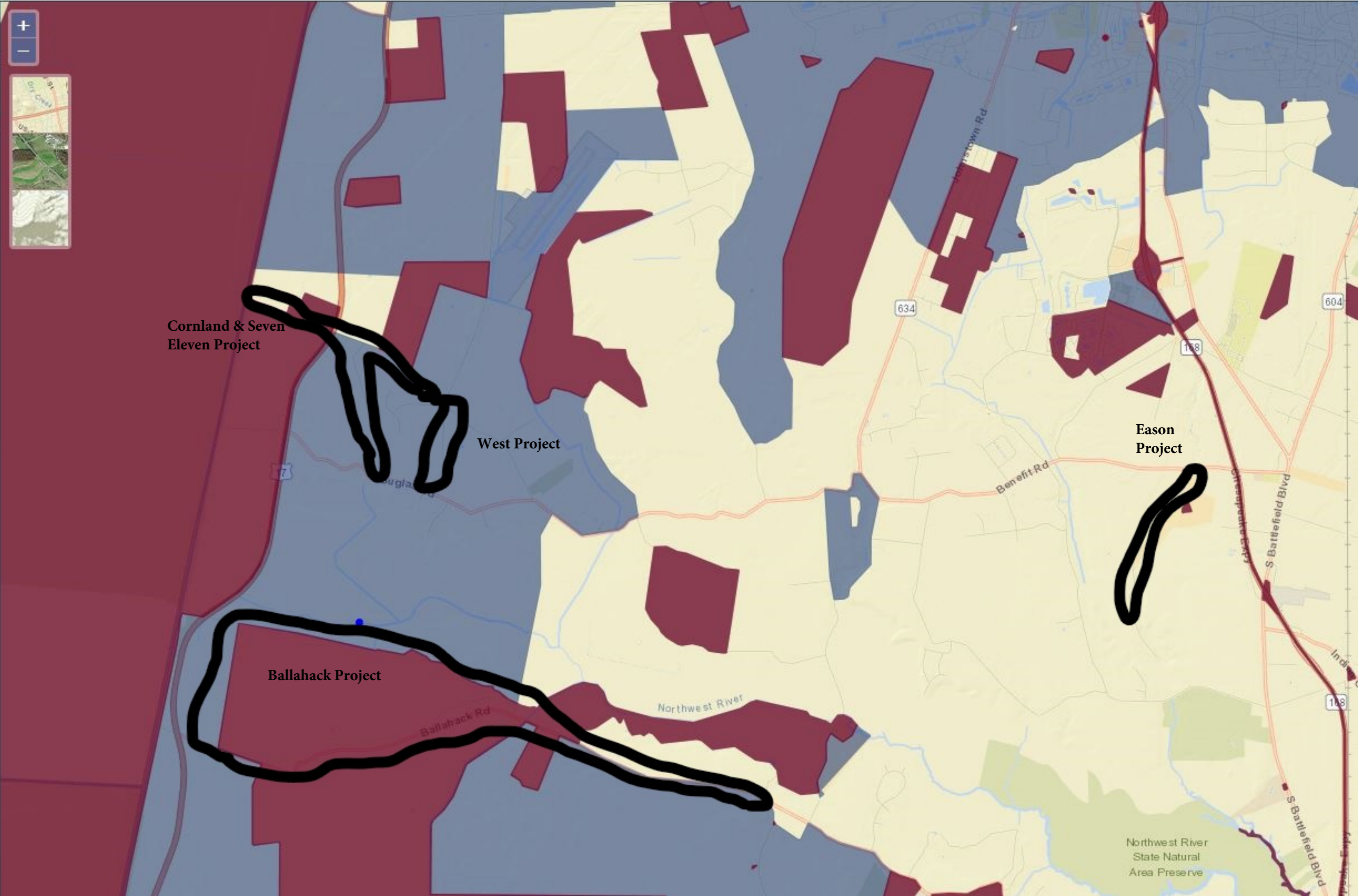
County	Partner	Year	Award Amount	Units Contracted to Pass	Funding Program
No results found					

Broadband Layers [Export to Image](#)

- Cable Wireline Coverage (June 2020)
- DSL/Copper Coverage (June 2020)
- Fiber Optic Coverage (June 2020)
- Fixed Wireless Coverage (June 2020)
- Mobile Wireless Coverage (Dec. 2018)
- 4G/LTE Wireless Coverage (Dec. 2018)
- Satellite Coverage (Dec. 2018)
- Virginia Telecommunication Initiative (VATI) Funding
- Tobacco Region Revitalization Commission (TRRC) Funding
- Underserved Areas (June 2020)
Greater than 10 Mbps download and 1 Mbps upload and less than 25 Mbps download and 3 Mbps upload.
- Unserved Areas (June 2020)
Below or equal to 10 Mbps download and 1 Mbps upload.
- No Residential Broadband Reported (June 2020)
25 Mbps download and 3 Mbps upload.

Other Layers

- Cities/Counties
- Vertical Assets (updated daily)
- 2010 Census Population
 - 0 - 71
 - 71 - 307
 - 307 - 962
 - 962 - 2623
 - 2623 - 19352



2022 Virginia Telecommunication Initiative (VATI) Passing Form

Type of Passings	Total Number of Passings in the Project Area ¹	Passings in the Project Area, without Special Construction Costs Required ²	Passings with Special Construction Costs budgeted in the Application ³	Number of Passings with Speeds at 10/1 or below in Project Area ⁴
Residential	224	0	0	0
Businesses (non-home based)	2	0	0	0
Businesses (home-based)	49	0	0	0
Community Anchors	0	0	0	0
Non-residential	0	0	0	0
Total	275	0	0	0

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 10 mbps download and 1mbps upload.

Definitions

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

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

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

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

Cox-2022 VATI Project Management Plan West Rd

Task	Owner	Entity	Estimated Time Line												% Complete <small>update monthly</small>
			Jan-Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec		
VATI Review-Approval	State	State-City													0%
Meet all stakeholders & discuss next steps	Cox-Sponsor	Cox & City of Ches													0%
Perform field survey for ug-aerial constr.	Cox-Leader	Cox													0%
Create project account & set up workflow	Cox-Planner	Cox													0%
Secure private property easements	Cox-Planner	Cox-Homeowners													0%
Dominion Energy pole application process	Cox-Planner	Cox & Dom. Energy													0%
Dominion Energy make-ready construction	Dominion Energy	Dominion Energy													0%
Design the project	Cox-Design	Cox													0%
Secure City permits	Cox-Planner	Cox & City of Ches													0%
Order & Receive project material	Cox-Planner	Cox													0%
Perform aerial construction	Cox-Planner	Cox													0%
Perform underground construction	Cox-Planner	Cox													0%
Splice-Activate-Test the network	Cox-Planner	Cox													0%
Release the addresses for service	Cox-Planner	Cox													0%
Submit documents for payment	Cox-Sponsor	Cox & City of Ches													0%

Cox-2022 VATI Project Management Plan Seven Eleven - Cornland Rds

Task	Owner	Entity	Estimated Time Line												% Complete <small>update monthly</small>
			Jan-Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec		
VATI Review-Approval	State	State-City													0%
Meet all stakeholders & discuss next steps	Cox-Sponsor	Cox & City of Ches													0%
Perform field survey for ug-aerial constr.	Cox-Leader	Cox													0%
Create project account & set up workflow	Cox-Planner	Cox													0%
Secure private property easements	Cox-Planner	Cox-Homeowners													0%
Dominion Energy pole application process	Cox-Planner	Cox & Dom. Energy													0%
Dominion Energy make-ready construction	Dominion Energy	Dominion Energy													0%
Design the project	Cox-Design	Cox													0%
Secure City permits	Cox-Planner	Cox & City of Ches													0%
Order & Receive project material	Cox-Planner	Cox													0%
Perform aerial construction	Cox-Planner	Cox													0%
Perform underground construction	Cox-Planner	Cox													0%
Splice-Activate-Test the network	Cox-Planner	Cox													0%
Release the addresses for service	Cox-Planner	Cox													0%
Submit documents for payment	Cox-Sponsor	Cox & City of Ches													0%

CITY OF CHESAPEAKE, VIRGINIA

AND

COX COMMUNICATIONS HAMPTON ROADS, LLC

MEMORANDUM OF AGREEMENT

FOR

VIRGINIA TELECOMMUNICATIONS INITIATIVE (VATI) GRANT PARTNERSHIP

THIS MEMORANDUM OF AGREEMENT (this “Agreement”) is made this _____ day of _____, 2021, by and between the City of Chesapeake, Virginia, a municipal corporation that is a political subdivision of the Commonwealth of Virginia (hereinafter “City”) and Cox Communications Hampton Roads, LLC, a Virginia Limited Liability Company (hereinafter “Cox”).

WHEREAS, The goal of this Memorandum of Agreement is to set forth the undertakings of the parties as it relates to partnering on the submission of a Virginia Telecommunications Initiative (VATI) Grant with the goal of obtaining funds to support the extension of existing Cox network to reach unserved residents in the southeast quadrant of Chesapeake, Virginia.

NOW THEREFORE, for and in consideration of the mutual promises, covenants, and warranties, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, hereby agree as follows:

REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE CITY

In addition to the covenants in other sections of this Agreement, the CITY represents, warrants and covenants as follows:

Organization, Authorization and Validity. The City of Chesapeake, Virginia, a municipal corporation that is a political subdivision of the Commonwealth of Virginia validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

Authority. The CITY has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by the CITY would prevent or materially and adversely affect the CITY's ability to perform the terms of this Agreement.

The CITY will contribute the cost of all permitting fees for the project.

The City will act as the project manager in relation to the DHCD VATI Grant process.

REPRESENTATIONS, WARRANTIES AND COVENANTS OF COX

In addition to the covenants in other sections of this Agreement, Cox represents, warrants and covenants for itself as follows:

Organization, Authorization and Validity. Cox is a duly organized Virginia Limited Liability Company validly existing under the laws of the Commonwealth and has duly authorized, executed and delivered this Agreement. The Agreement is a valid, legal and binding agreement.

Authority. The Cox has all requisite authority to execute and deliver and perform its obligations under this Agreement and is not a party to any indenture, contract or other agreement or arrangement, the performance of which by it would prevent or materially and adversely affect its individual performance under this Agreement.

Approval to be listed as a co-applicant for the 2022 VATI Grant.

Application support providing the following to Chesapeake:

Proposed network maps

Details to complete the derivation of costs and budget worksheets

Project management plan including scope of work and timelines

Information on service speeds and associated rates

The two most recent 477 FCC filing summary documents

Marketing tactics information

Other items upon request, as able, based on the ability of Cox to do so keeping in mind customer privacy and company interests

Dedicated company resources to gather the aforementioned information.

Funding to support a portion of the overall budget to help meet the 20% minimum contribution requirement from an ISP, locality or the combination of the two.

Confirmation that all projects included in this proposal can be and will be completed within the 12-18 month timeframe as required by the VATI 2022 guidelines.

MUTUAL REPRESENTATIONS, WARRANTIES AND COVENANTS OF THE PARTIES

In addition to the covenants in other sections of this Agreement, the parties represents, warrants and covenants as follows:

Both parties will work together to, to the best of their ability, provide information to successfully meet the requirements as outlined in the VATI 2022 guidelines and evaluation criteria.

Both parties understand the deadline for submission is September 14, 2021 by 11:59 p.m. through the online CAMS process. The City of Chesapeake, as the Applicant, agrees to transfer all data to the online application prior to the deadline.

Term of Agreement. (a) The term of this Agreement shall be for two (2) years, with three (2) one (1) year renewal options upon the written agreement of the parties.

Termination. The City may terminate the contract for cause or for convenience after giving thirty (30) days' notice in writing to Cox. The written notice shall state whether the termination is for convenience or cause. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

Voluntary Termination. The parties may additionally voluntarily terminate the contract giving sixty (60) days' notice in writing to the other party. The notice shall be delivered by a commercial courier service or mailed certified with return receipt requested to the address listed herein.

Compliance With Applicable Law. Cox shall at all times during the term of this Agreement, including any renewal period, comply with all applicable federal, state, and local laws, Agreements, and regulations. Expressly reserved to the City is the right to adopt, in addition to the provisions of this Agreement and existing laws, such additional Agreements and regulations as are necessary for the lawful exercise of its police power for the benefit and safety of the public.

Payment of Fees. The CITY shall pay all amounts (fees, costs, expenses, compensation, and taxes) allowed by the Chesapeake City Code, Chesapeake Zoning Agreement and the Code of Virginia, 1950.

Liability of City and Indemnification. The City, its officials, employees, agents, and attorneys, shall not be responsible for any liability of the Cox, any affiliated person or any other person, arising out of or in connection with the installation, maintenance, upgrade, repair or removal of facilities.

The City and its officials, employees, agents, and attorneys shall have no liability to the Cox, any affiliated Person or any other Person for any special, incidental, consequential or other damages as a result of the exercise of any right of the City pursuant to this Agreement or applicable law, including, without limitation, the rights of the City to approve or disapprove the grant, termination, amendment, renewal or transfer of the Franchise, or to otherwise modify all of any part of this Agreement or the Franchise.

To the extent permitted by law, Cox agrees to indemnify, defend and hold harmless the City, its officers, employees and agents from and against all claims, demands, losses, damages, liabilities, fines, and penalties, and all costs and expenses incurred in connection therewith, including, without limitation, reasonable attorney's fees and costs of defense (collectively, the losses), arising out of any breach by Cox of the terms and conditions of this Agreement, except to the extent proximately caused by the gross negligence or willful misconduct of the City, its officers, employees and agents. In addition, to the extent permitted by law, Cox shall protect, indemnify, and hold harmless the City, its officers, agents, and employees, from any and all demands for fees, claims, suits, actions, causes of action, or judgments based on the alleged infringement or violation of any patent, invention, article, arrangement, or other apparatus that may be used in the performance of any work or activity arising out of the use of any fiber optic cabling facilities except to the extent proximately caused by the gross negligence or willful misconduct of the City, its officers, employees or agents.

General Provisions.

(a) *Authority.* Cox warrants and represents that it has obtained all necessary and appropriate authority and approval from all applicable federal and state agencies or authorities, and upon request by the City will provide evidence of such authority.

(b) *Other remedies.* Nothing in this Agreement shall be construed as waiving or limiting any rights or remedies that the City or Cox may have, at law or in equity, for enforcement of this Agreement.

(c) *Severability.* If any section, subsection, sentence, clause, phrase, or other portion of this Agreement, or its application to any person, is, for any reason, declared invalid, in whole or in part by any court or agency of competent jurisdiction, said decision shall not affect the validity of the remaining portions hereof.

(d) *Nonenforcement.* Neither party shall be excused from complying with any of the provisions of this Agreement by any failure of the other party, upon any one or more occasions, to insist upon strict performance of this Agreement or to seek the other party's compliance with any one or more of such terms or conditions of this Agreement.

(e) *Conflicts of law.* If there is a conflict between the provisions of this Agreement and any law, whether federal, state, or City, including all future laws and Agreements, the law and conflicting Agreement provision will, to the extent reasonably possible, be construed so as to be consistent with each other and if such construction is not reasonably possible, the conflicting provision of this Agreement shall be deemed superseded by such law and have no effect, notwithstanding the contract clause of the United States Constitution.

(f) *Change of law.* Notwithstanding anything in this Agreement, if any federal, state, or local laws or regulations (including, but not limited to, those issued by the Federal Communications

Commission or its successor agency) and any binding judicial interpretations thereof (collectively, "Laws") that govern any aspect of the rights or obligations of the parties under this Agreement shall change after the Effective Date and such change (a) declares this Agreement invalid, in whole or in part, or (b) requires the Cox either to (i) perform any act that is inconsistent with any provision of this Agreement or (ii) cease performing any act required by any provision of this Agreement, including any obligations with respect to compensation or other financial obligations pursuant to this Agreement, or (c) alters the City's jurisdiction or rights related to this Franchise or similar franchises, then either the City or the Cox shall promptly notify the other of such fact.

Upon receipt of such notification, the parties, acting in good faith, shall determine whether such declaration or requirement has a material and adverse effect on this Agreement. If the parties, acting in good faith, determine that such declaration or requirement does not have a material and adverse effect on this Agreement, then the Cox shall comply with such declaration or requirement. If the parties, acting in good faith, determine that such declaration or requirement does have such an effect or that compliance with such declaration or requirement by the Cox would materially frustrate or impede the ability of the Cox, to carry out its obligations pursuant to, and the purposes of, this Agreement, then the Cox and the City may enter into good faith negotiations to amend this Agreement. Such materially frustration or impediment of the ability of the Cox shall not include the potential increase in cost or expense to the Cox, nor the choice of location, placement or other requirements of fiber optic cabling facilities. If the parties fail to produce an Agreement which is reasonably acceptable to both the City and the Cox, then the City or Cox may accelerate the expiration of the Term so that the Term shall expire on a date determined by the City and Cox not less than twelve (12) months after such determination.

(g) *Controlling law and venue.* By virtue of entering into this Agreement, Cox agrees and submits itself to the Chesapeake Circuit Court in the City of Chesapeake, Virginia or in the United States District Court for the Eastern District of Virginia, Norfolk Division, and further agrees that this Agreement is controlled by the laws of the Commonwealth of Virginia or any applicable federal laws and that all claims, disputes and other matters shall be decided only by such court according to the laws of the Commonwealth of Virginia or any applicable federal laws.

(h) *Captions.* The section captions and headings in this Agreement are for convenience and reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.

(i) *Nondiscrimination.* During the performance of this Agreement, Cox agrees that it will not discriminate against any employee or applicant for employment on the basis of race, religion, color, sex, handicap or national origin. Cox agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. Cox, in all solicitations or advertisements for employees placed by or on behalf of Cox, will state that Cox is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements herein.

(j) *Entire Agreement.* This Agreement, including all Appendices, embodies the entire understanding and Agreement of the City and the Cox with respect to the subject matter hereof and merges and supersedes all prior representations, agreements and understandings, whether oral or written, between the City and Cox with respect to the subject matter hereof, including, without limitation, all prior drafts of this Agreement and any Appendix to this Agreement and any and all

written or oral statements or representations by any official, employee, agent, attorney, consultant or independent contractor of the City or the Cox.

(k) *Delays and Failures Beyond Control of Cox.* Notwithstanding any other provision of this Agreement, the Cox shall not be liable for delay in performance of, or failure to perform, in whole or in part, its obligations pursuant to this Agreement due to strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, fire, flood or other act of God, or sabotage, where the Cox has exercised all due care in the prevention thereof, to the extent that such causes or other events are beyond the control of the Cox and such delay in performance or failure to perform affects only part of the Cox's capacity to perform, the Cox shall perform to the maximum extent it is able to do so and shall take all steps within its power to correct such cause(s).

The Cox agrees that in correcting such cause(s), it shall take all reasonable steps to do so in as expeditious a manner as possible. The Cox shall notify the City in writing of the occurrence of an event covered by this Section within five (5) business days or a reasonable time period under the circumstances of the date upon which the Cox learns of its occurrence.

(l) *Notices.*

(1) Notices given pursuant to this Agreement shall be in writing and addressed as follows:

To the City: City Manager
 City Manager's Office
 306 Cedar Road, 6th Floor
 Chesapeake, Virginia 23322

With a courtesy copy to:

City Attorney
City Attorney's Office
306 Cedar Road, 6th Floor

Chesapeake, Virginia 23322

To COX COMMUNICATIONS HAMPTON ROADS, LLC:

To Cox: Manager, Government and Public Affairs

Attn: Sarah Buck

1341 Crossways Blvd.

Chesapeake, VA 23320

With an optional courtesy copy to:

Richard Strong

6205-B Peachtree Dunwoody Road NE #16-112

Atlanta, GA 30328

(2) Either party may change the address at which it will receive notices by providing written notice of the change to the other party.

(m) *No Agency*. The Cox shall conduct the work to be performed pursuant to this Agreement as an independent contractor and not as an agent of the City.

(n) *Survival*. All representations and warranties contained in this Agreement shall survive the Term. The Cox acknowledges that certain of the obligations to be performed under this Agreement are to be performed after the Franchise terminates or expires.

(o) *Delegation of City Rights*. The City reserves the right to delegate and re-delegate, from time to time, any of its rights or obligations under this Agreement to any body, organization or official. Upon such delegation or re-delegation, references to "City" in this Agreement shall refer to the body, organization or official to whom such delegation or re-delegation has been made.

Upon receipt of such notice by the Cox, the Cox shall be bound by all terms and conditions of the delegation not in conflict with this Agreement. Any such delegation, revocation or re-delegation, no matter how often made, shall not be deemed an amendment to this Agreement or require any consent of the Cox.

(p) *Modifications.* Except as otherwise provided in this Agreement, (including any Appendix to this Agreement), or applicable law, no provision of this Agreement (nor any Appendix to this Agreement), shall be amended or otherwise modified, in whole or in part, except by an instrument, in writing, duly executed by the City and the Cox, which amendment shall be authorized on behalf of the City through the adoption of an appropriate Agreement, resolution or order by the City, as required by applicable law.

(q) *Reservation of Rights.* The City reserves the right to adopt or issue such lawful rules, regulations, orders, or other directives governing the Cox's use of the public streets as it shall find necessary or appropriate in the exercise of its police power, and such other orders as the City shall find necessary or appropriate pursuant to and in furtherance of the purposes of this Agreement, and the Cox expressly agrees to comply with all such lawful rules, regulations, orders, or other directives. If any such exercise of right materially alters any of the terms or conditions of this Agreement, the parties may, acting in good faith, negotiate such change. No rule, regulation, order or other directive issued pursuant to this Section shall constitute an amendment to this Agreement.

(r) *Reports.* At the reasonable request of the City, the Cox shall promptly submit to the City such information, as maintained in the ordinary course of business, as the City may request and as allowed by federal and state law regarding the Cox's placement and location of equipment in the public streets and payments and collections made by Cox pursuant to this Agreement.

(s) *Books and Records, Right of Inspection.* Throughout the Term, the Cox shall maintain in the City, or make available at Cox's location in the City or as mutually agreed upon by the City and Cox within fifteen (15) business days after receipt of written request, or within the time that is reasonable under the circumstances though not to exceed thirty (30) days, complete and accurate books of account, documents and records, or copies thereof, of the business, ownership, and operations of the Cox with respect to Cox's installation, construction, maintenance, upgrade, repair, relocation and removing of the facilities in the Public streets that may be required under this Agreement, including without limitation, all records, as maintained in the ordinary course of business, adequate to enable the Cox to demonstrate, at all times throughout the Term that it is, and has been, in compliance with each term and condition of this Agreement. The City and its designated representatives shall have the right to inspect, examine and audit, during normal business hours and upon sixty (60) days' notice to the Cox, all such documents, records and other information of the Cox required to be maintained.

(t) *Treatment of Proprietary Information.* Access by the City to the documents, records or other information covered by this Agreement shall not be denied by the Cox on grounds that such documents, records or information are alleged by the Cox to contain proprietary information, provided that this requirement shall not be deemed to constitute a waiver of the Cox's right to assert that the proprietary information contained in such documents, records or other information, should not be disclosed and to withhold such information upon the agreement of the City. In order to determine the validity of such assertion and withholding by the Cox, the City agrees to review the alleged proprietary information at the Cox's premises, subject to the terms as reasonably determined by the parties, and, to limit access to the alleged proprietary information to those individuals who require the information in the exercise of the City's rights under this Agreement, as reasonably determined by the parties. If the City Attorney concurs with the Cox's assertion regarding the proprietary nature of such information,

the City will not disclose such information to any Person and will not remove from the Cox's premises the proprietary portion of any document or other tangible thing that contains such proprietary information. If the City Attorney does not concur with such assertion, then the Cox shall promptly provide such documents, including the alleged proprietary portion thereof, to the City, provided that the Cox shall not be required to provide the proprietary portion thereof if it promptly notifies the City of its intentions to challenge the City Attorney's decision or during the pendency of any court challenge to such provision. The labeling of documents, records or other information as proprietary shall be the sole responsibility of the Cox.

CITY OF CHESAPEAKE, VIRGINIA

City Manager

APPROVED AS TO FORM:

City Attorney

The undersigned hereby agrees to comply with all the terms, requirements and conditions of the above Memorandum of Agreement.

COX COMMUNICATIONS HAMPTON ROADS, LLC

By: _____

Name: _____

Its: _____

Date: _____

State of _____

City/County of _____, TO WIT;

The foregoing instrument was acknowledged before me this ____ day of _____, 2021, by
_____, _____ of Cox Communications Hampton
Roads, LLC. He/she is personally known to me or has produced _____ as
evidence of identification.

Notary Public

My commission expires _____ My registration number: _____

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	\$ 580,435	57	Pending
COX-PRIVATE	\$ 434,559	43	SECURED
	\$		
	\$		
	\$		
	\$		
	\$		
TOTAL	\$ 1,014,994	100 %	

ATTACHMENT 10 – Documentation of Match Funding



Government and Public Affairs
1341 Crossways Blvd.
Chesapeake, VA 23320

August 31, 2021

Mr. Chuck Williams
Department of Information Technology
300 Shea Drive
Chesapeake, VA 23322

Dear Mr. Williams,

We are pleased to again partner with the City of Chesapeake to apply for grant funding to extend broadband service to the remaining unserved residents in the City.

The intent of this letter is to confirm our commitment to matching funds for this project and to provide assurance of our financial ability to do so.

Cox Communications is the largest private telecom company in America, proudly serving six million homes and businesses across 18 states. Cox Communications is the largest division of Cox Enterprises, a family-owned, global company founded in 1898 by Governor James M. Cox, that reported \$21B in annual revenues in 2019.

Cox will be providing all the planning, engineering, materials and labor for the installation of the fiber facilities necessary for this project. The cash value of the Cox contribution that is not reimbursed by VATI or other matching funds from the City of Chesapeake is \$434,559 (43% of the total project cost). Cox is committed to provide this amount of match funding.

Please accept this letter in lieu of a financial statement documenting current assets due to our position as a privately-held company.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sarah Buck'.

Sarah Buck
Sr. Manager, Public Affairs

Attachment 11 – Letter of Support



Government and Public Affairs
1341 Crossways Blvd.
Chesapeake, VA 23320

August 31, 2021

Mr. Chris Price
Chesapeake City Manager
306 Cedar Road
Chesapeake, VA 23322

Dear Mr. Price,

Thank you for the opportunity to work with the City on a grant application to extend broadband service to unserved residents in Chesapeake. Cox is a committed partner to this project, and we are appreciative for the opportunity to coordinate with your team to submit another successful grant this year.

Cox has been providing video and telecommunications service in the Commonwealth for more than 40 years and we have continually worked to enhance and expand our network to meet the needs of our customers. Over the past decade, Cox has invested billions of dollars in its Virginia network to bring gigabit service to all Cox residential customers; we've committed \$10B more nationwide over the next five years to continue the work that needs to be done to meet the future needs of our customers, which we anticipate will be 10 gigabits in the very near future. These investments and services have significant impact on economic development by increasing opportunities for residents to engage in virtual learning, access to telehealth options, telework and allowing more home-based businesses to thrive.

With the demand for broadband connectivity as high as it's ever been, partnering to reach the unserved is of the utmost importance. It's an exciting time and we appreciate the City trusting Cox to deliver the connectivity its residents desire and deserve.

Sincerely,


A handwritten signature in black ink, appearing to read 'Sarah'.

Sarah Buck
Sr. Manager, Public Affairs



Department of Information Technology
300 Shea Drive
Chesapeake, VA 23322-5504
(757)382-6391

MEMORANDUM

TO: DHCD Reviewer
FROM: Chuck Williams, Deputy Director of IT 
DATE: 9/10/21
SUBJECT: Virginia Telecommunications Initiative Grant In-Kind Contributions

Should Cox and Chesapeake's grant request be awarded, Chesapeake will pay right-of-way fees that would be associated with the build out.

Please feel free to contact me if you have any further question.

CMW

2022 VATI- Eason Road

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 9,715' of new UG fiber optical network to include permitting-labor-material and traffic control @ \$15.33 per ft.	\$ 148,852	\$ 125,035	\$ 23,817	Cox Communications	9/1/2021
Construct approx. 7,113' of new Aerial fiber optical network to include permitting-labor-material and traffic control @ \$3.87 per ft.	\$ 27,498	\$ 23,098	\$ 4,400	Cox Communications	9/1/2021
Perform network engineering & design.	\$ 2,526	\$ 2,122	\$ 404	Cox Communications	9/1/2021
Network optical, electronic and powering equipment.	\$ 38,497	\$ 32,337	\$ 6,160	Cox Communications	9/1/2021
Total Cost of Project	\$ 217,373	\$ 182,592	\$ 34,781		

2022 VATI- West Road

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 781' of new UG fiber optical network to include permitting-labor-material and traffic control @ \$16.75 per ft.	\$ 13,082	\$ 3,280	\$ 9,802	Cox Communications	9/1/2021
Construct approx. 3,126' of new Aerial fiber optical network to include permitting-labor-material and traffic control @ \$5.19 per ft.	\$ 16,227	\$ 4,073	\$ 12,154	Cox Communications	9/1/2021
Perform network engineering & design.	\$ 1,016	\$ 255	\$ 761	Cox Communications	9/1/2021
Total Cost of Project	\$ 30,325	\$ 7,608	\$ 22,717		

2022 VATI- Seven Eleven Road and Cornland Road

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 12,503' of new UG fiber optical network to include permitting-labor-material and traffic control @ \$16.11 per ft.	\$ 201,418	\$ 119,840	\$ 81,578	Cox Communications	9/1/2021
Construct approx. 3,126' of new Aerial fiber optical network to include permitting-labor-material and traffic control @ \$4.38 per ft.	\$ 13,690	\$ 8,077	\$ 5,613	Cox Communications	9/1/2021
Perform network engineering & design.	\$ 4,064	\$ 2,398	\$ 1,666	Cox Communications	9/1/2021
Network optical, electronic and powering equipment.	\$ 40,108	\$ 23,664	\$ 16,444	Cox Communications	9/1/2021
Total Cost of Project	\$ 259,280	\$ 153,979	\$ 105,301		

2022 VATI- West Ballahack Road

Product	Total	VATI	Non-VATI	Source of Estimate	Date
Construct approx. 23,824' of new UG fiber optical network to include permitting-labor-material and traffic control @ \$15.70 per ft.	\$ 374,063	\$ 173,298	\$ 200,765	Cox Communications	9/1/2021
Construct approx. 15,882' of new Aerial fiber optical network to include permitting-labor-material and traffic control @ \$3,97 per ft.	\$ 63,070	\$ 29,643	\$ 33,427	Cox Communications	9/1/2021
Perform network engineering & design.	\$ 10,323	\$ 4,852	\$ 5,471	Cox Communications	9/1/2021
Network optical, electronic and powering equipment.	\$ 60,560	\$ 28,463	\$ 32,097	Cox Communications	9/1/2021
Total Cost of Project	\$ 508,016	\$ 236,256	\$ 271,760		

ATTACHMENT 13 – Documentation of Supporting Cost Estimates



Government and Public Affairs
1341 Crossways Blvd.
Chesapeake, VA 23320

August 31, 2021

Mr. Chuck Williams
Department of Information Technology
300 Shea Drive
Chesapeake, VA 23322

Dear Mr. Williams,

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

As a nationwide company, Cox uses internal employees and corporate contracted resources to complete and perform the proposed works as outlined in this grant application. Cox is able to leverage its scale when it comes to the purchasing of equipment and establishing reasonable contract rates for additional labor as needed. Therefore, we have the benefit of not having to request quotes for individual projects; the costs are standard so we're able to build them into the costs presented in the table provided and are not adjusted based on geographic location, project size, source of funding, or any other factors. Contracted rates are considered proprietary.

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

Please accept this letter as an explanation for the absence of attached documentation of supporting cost estimates as requested in the 2022 VATI grant application (attachment 13).

Sincerely,

A handwritten signature in black ink that reads 'Sarah'.

Sarah Buck
Sr. Manager, Public Affairs

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



(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

0001834696

Data as of:

Jun 30, 2020

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Aug 24, 2020 09:38:26

Filer Identification

Section	Question	Response
Filer Information	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	SAC ID	279011, 439003, 549017
	499 ID	827138

Section	Question	Response
Data Contact Information	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com
Emergency Operations Contact Information	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
Certifying Official Contact Information	Certifying Official Name	Joiava T. Philpott
	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	joiava.philpott@cox.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_06302020.txt	Aug 3, 2020 16:00:46	314097
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_06302020.txt	Aug 4, 2020 14:20:30	111104
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_06302020.txt	Aug 5, 2020 14:39:59	6332

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Arizona	Cox Communications	Cable Modem – DOCSIS 3.0	1687
		Cable Modem – DOCSIS 3.1	54642
		Optical Carrier/Fiber to the End User	4835

State	DBA Name	Technology	Blocks
Arkansas	Cox Communications	Cable Modem – DOCSIS 3.1	12767
		Optical Carrier/Fiber to the End User	212
California	Cox Communications	Cable Modem – DOCSIS 3.0	1340
		Cable Modem – DOCSIS 3.1	27554
		Optical Carrier/Fiber to the End User	1109
Connecticut	Cox Communications	Cable Modem – DOCSIS 3.1	6066
		Optical Carrier/Fiber to the End User	51
District of Columbia	Cox Communications	Cable Modem – DOCSIS 3.1	5
		Optical Carrier/Fiber to the End User	3

State	DBA Name	Technology	Blocks
Florida	Cox Communications	Cable Modem – DOCSIS 3.0	13
		Cable Modem – DOCSIS 3.1	14048
		Optical Carrier/Fiber to the End User	150
Georgia	Cox Communications	Cable Modem – DOCSIS 3.0	6
		Cable Modem – DOCSIS 3.1	5426
		Optical Carrier/Fiber to the End User	97
Idaho	Cox Communications	Cable Modem – DOCSIS 3.1	742
		Optical Carrier/Fiber to the End User	8
Iowa	Cox Communications	Cable Modem – DOCSIS 3.1	1450

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	7
Kansas	Cox Communications	Cable Modem – DOCSIS 3.0	24
		Cable Modem – DOCSIS 3.1	28932
		Optical Carrier/Fiber to the End User	190
Louisiana	Cox Communications	Cable Modem – DOCSIS 3.0	8
		Cable Modem – DOCSIS 3.1	36052
		Optical Carrier/Fiber to the End User	344
Massachusetts	Cox Communications	Cable Modem – DOCSIS 3.1	101
		Optical Carrier/Fiber to the End User	1

State	DBA Name	Technology	Blocks
Nebraska	Cox Communications	Cable Modem – DOCSIS 3.0	10
		Cable Modem – DOCSIS 3.1	12187
		Optical Carrier/Fiber to the End User	339
Nevada	Cox Communications	Cable Modem – DOCSIS 3.0	17
		Cable Modem – DOCSIS 3.1	17132
		Optical Carrier/Fiber to the End User	352
North Carolina	Cox Communications	Cable Modem – DOCSIS 3.1	24
		Optical Carrier/Fiber to the End User	2
Ohio	Cox Communications	Cable Modem – DOCSIS 3.0	1

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	2109
		Optical Carrier/Fiber to the End User	4
Oklahoma	Cox Communications	Cable Modem – DOCSIS 3.0	12
		Cable Modem – DOCSIS 3.1	30012
		Optical Carrier/Fiber to the End User	992
Rhode Island	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	18570
		Optical Carrier/Fiber to the End User	53
Virginia	Cox Communications	Cable Modem – DOCSIS 3.0	27

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	34158
		Optical Carrier/Fiber to the End User	224
Total			314097

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Arizona	Cable Modem	19408	1223891	89287	1313178
	Optical Carrier/Fiber to the End User	4769	78130	4480	82610
Arkansas	Cable Modem	2342	133306	12043	145349

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	445	4261	454	4715
California	Cable Modem	11723	844658	55928	900586
	Optical Carrier/Fiber to the End User	2525	23570	5485	29055
Connecticut	Cable Modem	1985	121046	9864	130910
	Optical Carrier/Fiber to the End User	177	1042	147	1189
District of Columbia	Optical Carrier/Fiber to the End User	3	0	3	3
Florida	Cable Modem	3352	238491	19148	257639

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	542	5382	744	6126
Georgia	Cable Modem	1244	77307	6578	83885
	Optical Carrier/Fiber to the End User	233	3148	235	3383
Idaho	Cable Modem	75	6836	655	7491
	Optical Carrier/Fiber to the End User	7	0	8	8
Iowa	Cable Modem	431	18962	1275	20237
	Optical Carrier/Fiber to the End User	50	94	48	142

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Kansas	Cable Modem	5213	263229	20776	284005
	Optical Carrier/Fiber to the End User	684	1829	819	2648
Louisiana	Cable Modem	9249	425052	36497	461549
	Optical Carrier/Fiber to the End User	1712	6363	2444	8807
Massachusetts	Cable Modem	25	1118	15	1133
	Optical Carrier/Fiber to the End User	2	0	2	2
Nebraska	Cable Modem	3494	202249	14905	217154

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	835	8734	745	9479
Nevada	Cable Modem	8130	574154	40791	614945
	Optical Carrier/Fiber to the End User	1686	28533	2063	30596
North Carolina	Cable Modem	19	488	9	497
	Optical Carrier/Fiber to the End User	3	0	3	3
Ohio	Cable Modem	1291	49377	3009	52386
	Optical Carrier/Fiber to the End User	43	119	44	163

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Oklahoma	Cable Modem	9127	421317	40352	461669
	Optical Carrier/Fiber to the End User	2432	13809	3478	17287
Rhode Island	Cable Modem	4137	201258	17257	218515
	Optical Carrier/Fiber to the End User	380	1176	451	1627
Virginia	Cable Modem	11527	557531	53323	610854
	Optical Carrier/Fiber to the End User	1804	7991	2743	10734
Total		111104	5544451	446108	5990559

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.256	0.256	0	157	157
0.384	0.384	0	3490	3490
0.512	0.512	0	5	5
0.768	0.768	0	1	1
1.000	0.256	0	5	5
1.000	1.000	0	47	47
1.500	0.384	0	230	230
1.500	0.512	0	2	2
1.500	1.500	0	266	266

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2.000	0.384	0	76	76
2.000	2.000	0	2582	2582
3.000	0.512	0	1349	1349
3.000	3.000	0	130	130
4.000	4.000	0	7	7
5.000	1.000	36	584	620
5.000	2.000	0	471	471
5.000	5.000	0	311	311
6.000	1.000	0	790	790

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
6.000	2.000	0	45	45
6.000	6.000	0	53	53
7.000	7.000	0	3	3
8.000	2.000	0	7	7
8.000	8.000	0	6	6
9.000	1.000	0	820	820
9.000	9.000	0	1	1
10.000	1.000	243916	0	243916
10.000	2.000	0	55526	55526

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10.000	3.000	0	49	49
10.000	10.000	0	988	988
15.000	1.500	0	1	1
15.000	2.000	18146	0	18146
15.000	3.000	0	6236	6236
15.000	5.000	0	356	356
15.000	15.000	0	15	15
15.500	5.000	0	30	30
20.000	3.000	0	9380	9380

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
20.000	4.000	0	4	4
20.000	20.000	0	1678	1678
25.000	3.000	155539	0	155539
25.000	4.000	0	1478	1478
25.000	5.000	21578	82730	104308
25.000	10.000	0	75	75
25.000	15.000	0	2	2
25.000	25.000	0	55	55
28.000	4.000	0	152	152

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
30.000	10.000	0	155	155
30.000	30.000	0	761	761
40.000	40.000	0	318	318
45.000	45.000	0	7	7
50.000	3.000	838118	0	838118
50.000	5.000	0	6708	6708
50.000	10.000	98002	105590	203592
50.000	15.000	0	166	166
50.000	50.000	0	3624	3624

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
60.000	15.000	0	129	129
60.000	60.000	0	14	14
70.000	70.000	0	9	9
75.000	10.000	0	4	4
75.000	25.000	0	602	602
75.000	75.000	0	16	16
80.000	10.000	0	5	5
80.000	20.000	0	23	23
80.000	80.000	0	2	2

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
90.000	90.000	0	3	3
100.000	10.000	33124	95	33219
100.000	20.000	0	95192	95192
100.000	30.000	0	86	86
100.000	40.000	0	1	1
100.000	50.000	0	1	1
100.000	100.000	0	6482	6482
120.000	120.000	0	1	1
130.000	130.000	0	2	2

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
140.000	30.000	0	4	4
150.000	10.000	2581188	26	2581214
150.000	20.000	5988	669	6657
150.000	40.000	0	8	8
150.000	150.000	0	117	117
155.000	155.000	0	10	10
200.000	10.000	241430	0	241430
200.000	20.000	0	26053	26053
200.000	50.000	0	1	1

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
200.000	200.000	0	2256	2256
250.000	250.000	0	58	58
300.000	30.000	864745	15910	880655
300.000	50.000	0	2	2
300.000	75.000	0	14	14
300.000	80.000	0	1	1
300.000	300.000	0	1140	1140
400.000	400.000	0	242	242
500.000	35.000	0	3460	3460

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
500.000	500.000	0	1200	1200
600.000	600.000	0	22	22
700.000	700.000	0	18	18
800.000	800.000	0	3	3
900.000	900.000	0	1	1
1000.000	35.000	404628	2592	407220
1000.000	1000.000	38013	1782	39795
2000.000	2000.000	0	127	127
3000.000	3000.000	0	39	39

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
4000.000	4000.000	0	22	22
5000.000	5000.000	0	58	58
6000.000	6000.000	0	4	4
8000.000	8000.000	0	5	5
10000.000	10000.000	0	67	67
12000.000	12000.000	0	1	1
20000.000	20000.000	0	2	2
40000.000	40000.000	0	2	2
100000.000	100000.000	0	3	3

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Total		5544451	446108	5990559

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Cable Modem	0.256	0.256	0	152	152
	0.384	0.384	0	3483	3483
	1.000	0.256	0	5	5
	1.500	0.384	0	230	230
	1.500	1.500	0	3	3
	2.000	0.384	0	76	76
	2.000	2.000	0	2497	2497

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	3.000	0.512	0	1349	1349
	3.000	3.000	0	16	16
	5.000	1.000	31	554	585
	5.000	2.000	0	449	449
	5.000	5.000	0	3	3
	6.000	1.000	0	790	790
	6.000	2.000	0	44	44
	9.000	1.000	0	820	820
	10.000	1.000	240288	0	240288

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	10.000	2.000	0	55503	55503
	10.000	10.000	0	2	2
	15.000	1.500	0	1	1
	15.000	2.000	18116	0	18116
	15.000	3.000	0	6127	6127
	15.000	5.000	0	121	121
	20.000	3.000	0	9380	9380
	20.000	4.000	0	4	4
	20.000	20.000	0	4	4

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	25.000	3.000	154700	0	154700
	25.000	4.000	0	1478	1478
	25.000	5.000	21497	82600	104097
	25.000	15.000	0	2	2
	28.000	4.000	0	152	152
	30.000	10.000	0	155	155
	30.000	30.000	0	2	2
	50.000	3.000	821871	0	821871
	50.000	5.000	0	6708	6708

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	50.000	10.000	95651	105342	200993
	50.000	15.000	0	8	8
	60.000	15.000	0	129	129
	80.000	10.000	0	5	5
	100.000	10.000	32909	95	33004
	100.000	20.000	0	94973	94973
	140.000	30.000	0	4	4
	150.000	10.000	2504935	26	2504961
	150.000	20.000	5956	669	6625

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	200.000	10.000	239491	0	239491
	200.000	20.000	0	25939	25939
	300.000	30.000	824688	15786	840474
	500.000	35.000	0	3442	3442
	1000.000	35.000	400137	2584	402721
Optical Carrier/Fiber to the End User	0.256	0.256	0	5	5
	0.384	0.384	0	7	7
	0.512	0.512	0	5	5
	0.768	0.768	0	1	1

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	1.000	1.000	0	47	47
	1.500	0.512	0	2	2
	1.500	1.500	0	263	263
	2.000	2.000	0	85	85
	3.000	3.000	0	114	114
	4.000	4.000	0	7	7
	5.000	1.000	5	30	35
	5.000	2.000	0	22	22
	5.000	5.000	0	308	308

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	6.000	2.000	0	1	1
	6.000	6.000	0	53	53
	7.000	7.000	0	3	3
	8.000	2.000	0	7	7
	8.000	8.000	0	6	6
	9.000	9.000	0	1	1
	10.000	1.000	3628	0	3628
	10.000	2.000	0	23	23
	10.000	3.000	0	49	49

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	10.000	10.000	0	986	986
	15.000	2.000	30	0	30
	15.000	3.000	0	109	109
	15.000	5.000	0	235	235
	15.000	15.000	0	15	15
	15.500	5.000	0	30	30
	20.000	20.000	0	1674	1674
	25.000	3.000	839	0	839
	25.000	5.000	81	130	211

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	25.000	10.000	0	75	75
	25.000	25.000	0	55	55
	30.000	30.000	0	759	759
	40.000	40.000	0	318	318
	45.000	45.000	0	7	7
	50.000	3.000	16247	0	16247
	50.000	10.000	2351	248	2599
	50.000	15.000	0	158	158
	50.000	50.000	0	3624	3624

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	60.000	60.000	0	14	14
	70.000	70.000	0	9	9
	75.000	10.000	0	4	4
	75.000	25.000	0	602	602
	75.000	75.000	0	16	16
	80.000	20.000	0	23	23
	80.000	80.000	0	2	2
	90.000	90.000	0	3	3
	100.000	10.000	215	0	215

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	100.000	20.000	0	219	219
	100.000	30.000	0	86	86
	100.000	40.000	0	1	1
	100.000	50.000	0	1	1
	100.000	100.000	0	6482	6482
	120.000	120.000	0	1	1
	130.000	130.000	0	2	2
	150.000	10.000	76253	0	76253
	150.000	20.000	32	0	32

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	150.000	40.000	0	8	8
	150.000	150.000	0	117	117
	155.000	155.000	0	10	10
	200.000	10.000	1939	0	1939
	200.000	20.000	0	114	114
	200.000	50.000	0	1	1
	200.000	200.000	0	2256	2256
	250.000	250.000	0	58	58
	300.000	30.000	40057	124	40181

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	300.000	50.000	0	2	2
	300.000	75.000	0	14	14
	300.000	80.000	0	1	1
	300.000	300.000	0	1140	1140
	400.000	400.000	0	242	242
	500.000	35.000	0	18	18
	500.000	500.000	0	1200	1200
	600.000	600.000	0	22	22
	700.000	700.000	0	18	18

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	800.000	800.000	0	3	3
	900.000	900.000	0	1	1
	1000.000	35.000	4491	8	4499
	1000.000	1000.000	38013	1782	39795
	2000.000	2000.000	0	127	127
	3000.000	3000.000	0	39	39
	4000.000	4000.000	0	22	22
	5000.000	5000.000	0	58	58
	6000.000	6000.000	0	4	4

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	8000.000	8000.000	0	5	5
	10000.000	10000.000	0	67	67
	12000.000	12000.000	0	1	1
	20000.000	20000.000	0	2	2
	40000.000	40000.000	0	2	2
	100000.000	100000.000	0	3	3
Total			5544451	446108	5990559

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
Alabama	0	0	46	0
Arizona	1326	0	586445	370596
Arkansas	0	0	56265	26155
California	3884	1	512848	314347
Colorado	0	0	1120	0
Connecticut	4	0	80974	58324
Florida	0	0	106487	61241
Georgia	0	0	38272	23126
Idaho	0	0	3191	2079

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Illinois	0	0	33	0
Indiana	0	0	36	0
Iowa	2	0	13990	8375
Kansas	449	0	137632	68626
Louisiana	35	1	239513	135485
Maryland	0	0	101	0
Massachusetts	0	0	92	0
Minnesota	0	0	4	0
Missouri	0	0	58	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Nebraska	807	0	128334	68779
Nevada	0	0	284475	184464
Ohio	0	0	24839	18240
Oklahoma	3358	0	280159	135782
Oregon	0	0	48	0
Pennsylvania	0	0	48	0
Rhode Island	260	0	157315	92589
South Dakota	0	0	4	0
Tennessee	0	0	145	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Texas	0	0	236	0
Utah	0	0	65	0
Virginia	7423	114	390277	204992
Washington	0	0	18	0
West Virginia	0	0	13	0
Total	17548	116	3043083	1773200

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Arizona	0	0

State	Wholesale	UNE-L
California	0	0
Connecticut	0	0
Iowa	0	0
Kansas	0	0
Louisiana	0	0
Nebraska	0	0
Oklahoma	0	0
Rhode Island	0	0
Virginia	0	0

State	Wholesale	UNE-L
Total	0	0

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

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Arizona	1326	37	1289	0	0	909	417
California	3884	93	3791	0	1	2399	1484
Connecticut	4	0	4	0	0	3	1
Iowa	2	0	2	0	0	1	1
Kansas	449	12	437	0	0	328	121

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Louisiana	35	4	31	0	1	31	3
Nebraska	807	19	788	0	0	622	185
Oklahoma	3358	69	3289	0	0	1785	1573
Rhode Island	260	18	242	0	0	123	137
Virginia	7423	92	7331	1	113	5877	1432
Total	17548	344	17204	1	115	12078	5354

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
Arizona	1326	1221	105	0	8	1318	0	0
California	3884	3503	381	0	1113	2771	0	0
Connecticut	4	4	0	0	0	4	0	0
Iowa	2	2	0	0	0	2	0	0
Kansas	449	427	22	0	0	449	0	0
Louisiana	35	32	3	0	10	25	0	0
Nebraska	807	783	24	0	0	807	0	0
Oklahoma	3358	3093	265	0	358	3000	0	0

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Rhode Island	260	252	8	0	0	260	0	0
Virginia	7423	7065	358	0	470	6953	0	0
Total	17548	16382	1166	0	1959	15589	0	0

Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business / Govt
Alabama	46	0	46
Arizona	565	0	565
Arkansas	354	0	354
California	7831	0	7831

State	Total	Consumer	Business / Govt
Colorado	1120	0	1120
Connecticut	11	0	11
Florida	129	0	129
Georgia	23	0	23
Idaho	52	0	52
Illinois	33	0	33
Indiana	36	0	36
Iowa	74	0	74
Kansas	1145	0	1145

State	Total	Consumer	Business / Govt
Louisiana	247	0	247
Maryland	101	0	101
Massachusetts	82	0	82
Minnesota	4	0	4
Missouri	58	0	58
Nebraska	804	0	804
Nevada	542	0	542
Ohio	67	0	67
Oklahoma	503	0	503

State	Total	Consumer	Business / Govt
Oregon	48	0	48
Pennsylvania	48	0	48
Rhode Island	89	0	89
South Dakota	4	0	4
Tennessee	145	0	145
Texas	236	0	236
Utah	65	0	65
Virginia	2499	0	2499
Washington	18	0	18

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
Connecticut	80963	58324	22639	70541	10422	284	80679	0	0
Florida	106358	61241	45117	90591	15767	1656	104702	0	0
Georgia	38249	23126	15123	33394	4855	656	37593	0	0
Idaho	3139	2079	1060	2755	384	0	3139	0	0
Illinois	0	0	0	0	0	0	0	0	0
Indiana	0	0	0	0	0	0	0	0	0
Iowa	13916	8375	5541	10635	3281	25	13891	0	0
Kansas	136487	68626	67861	103541	32946	678	135809	0	0

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
Louisiana	239266	135485	103781	194981	44285	1598	237668	0	0
Maryland	0	0	0	0	0	0	0	0	0
Massachusetts	10	0	10	0	10	10	0	0	0
Minnesota	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	127530	68779	58751	96219	31311	1625	125905	0	0
Nevada	283933	184464	99469	244363	39570	7077	276856	0	0
Ohio	24772	18240	6532	21725	3047	26	24746	0	0

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	387778	204992	182786	289354	98424	3954	383824	0	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
Total	3026091	1773200	1252891	2423129	602962	70109	2955982	0	0

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(RETAIN FOR YOUR RECORDS) Form 477 Filing Summary

FRN:

0001834696

Data as of:

Dec 31, 2020

Operations:

Non-ILEC

Submission Status:

Original - Submitted

Last Updated:

Mar 1, 2021 13:47:48

Filer Identification

Section	Question	Response
Filer Information	Company Name	Cox Communications
	Holding Company Name	Cox Communications, Inc.
	SAC ID	279011, 439003, 549017
	499 ID	827138
Data Contact Information	Data Contact Name	Paul Cain
	Data Contact Phone Number	(404) 269-8139
	Data Contact E-mail	paul.cain@cox.com

Section	Question	Response
Emergency Operations Contact Information	Emergency Operations Name	Mark Peay
	Emergency Operations Phone Number	(404) 227-6704
	Emergency Operations E-mail	mark.peay@cox.com
Certifying Official Contact Information	Certifying Official Name	Joiava T. Philpott
	Certifying Official Phone Number	(404) 269-0983
	Certifying Official E-mail	joiava.philpott@cox.com

Data Submitted

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Deployment	Fixed_Broadband_Deployment_FCC_12312020.txt	Feb 9, 2021 10:17:17	315393

Form Section	File Name	Date & Time	Number of Rows
Fixed Broadband Subscription	Fixed_Broadband_Subscription_FCC_12312020.txt	Feb 10, 2021 08:16:25	117757
Fixed Voice Subscription	Voice_Telephone_Subscription_Detail_FCC_12312020.txt	Feb 10, 2021 08:41:02	6314

Fixed Broadband Deployment

Census Block Counts by State, DBA Name and Technology

State	DBA Name	Technology	Blocks
Arizona	Cox Communications	Cable Modem – DOCSIS 3.0	1687
		Cable Modem – DOCSIS 3.1	54687
		Optical Carrier/Fiber to the End User	5284
Arkansas	Cox Communications	Cable Modem – DOCSIS 3.1	12776

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	275
California	Cox Communications	Cable Modem – DOCSIS 3.0	302
		Cable Modem – DOCSIS 3.1	28640
		Optical Carrier/Fiber to the End User	1211
Connecticut	Cox Communications	Cable Modem – DOCSIS 3.1	6068
		Optical Carrier/Fiber to the End User	49
District of Columbia	Cox Communications	Cable Modem – DOCSIS 3.1	5
		Optical Carrier/Fiber to the End User	3
Florida	Cox Communications	Cable Modem – DOCSIS 3.0	5

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	14058
		Optical Carrier/Fiber to the End User	178
Georgia	Cox Communications	Cable Modem – DOCSIS 3.0	7
		Cable Modem – DOCSIS 3.1	5440
		Optical Carrier/Fiber to the End User	114
Idaho	Cox Communications	Cable Modem – DOCSIS 3.1	742
		Optical Carrier/Fiber to the End User	8
Iowa	Cox Communications	Cable Modem – DOCSIS 3.1	1451
		Optical Carrier/Fiber to the End User	25

State	DBA Name	Technology	Blocks
Kansas	Cox Communications	Cable Modem – DOCSIS 3.0	24
		Cable Modem – DOCSIS 3.1	28928
		Optical Carrier/Fiber to the End User	259
Louisiana	Cox Communications	Cable Modem – DOCSIS 3.0	9
		Cable Modem – DOCSIS 3.1	36068
		Optical Carrier/Fiber to the End User	426
Massachusetts	Cox Communications	Cable Modem – DOCSIS 3.1	101
		Optical Carrier/Fiber to the End User	1
Nebraska	Cox Communications	Cable Modem – DOCSIS 3.0	10

State	DBA Name	Technology	Blocks
		Cable Modem – DOCSIS 3.1	12191
		Optical Carrier/Fiber to the End User	410
Nevada	Cox Communications	Cable Modem – DOCSIS 3.0	16
		Cable Modem – DOCSIS 3.1	17129
		Optical Carrier/Fiber to the End User	443
North Carolina	Cox Communications	Cable Modem – DOCSIS 3.1	24
		Optical Carrier/Fiber to the End User	2
Ohio	Cox Communications	Cable Modem – DOCSIS 3.0	1
		Cable Modem – DOCSIS 3.1	2110

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	4
Oklahoma	Cox Communications	Cable Modem – DOCSIS 3.0	12
		Cable Modem – DOCSIS 3.1	30053
		Optical Carrier/Fiber to the End User	1038
Rhode Island	Cox Communications	Cable Modem – DOCSIS 3.0	2
		Cable Modem – DOCSIS 3.1	18583
		Optical Carrier/Fiber to the End User	57
Virginia	Cox Communications	Cable Modem – DOCSIS 3.0	26
		Cable Modem – DOCSIS 3.1	34194

State	DBA Name	Technology	Blocks
		Optical Carrier/Fiber to the End User	257
Total			315393

Fixed Broadband Subscription

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

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Arizona	Cable Modem	20386	1287174	91447	1378621
	Optical Carrier/Fiber to the End User	5310	96451	5146	101597
Arkansas	Cable Modem	2455	136152	12044	148196
	Optical Carrier/Fiber to the End User	519	4989	519	5508

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
California	Cable Modem	12410	860192	55931	916123
	Optical Carrier/Fiber to the End User	2691	26499	5596	32095
Connecticut	Cable Modem	2081	123749	9875	133624
	Optical Carrier/Fiber to the End User	196	1216	173	1389
District of Columbia	Optical Carrier/Fiber to the End User	4	0	4	4
Florida	Cable Modem	3501	244012	19400	263412
	Optical Carrier/Fiber to the End User	612	6348	860	7208

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Georgia	Cable Modem	1286	80145	6690	86835
	Optical Carrier/Fiber to the End User	283	3663	275	3938
Idaho	Cable Modem	81	7176	697	7873
	Optical Carrier/Fiber to the End User	9	0	13	13
Iowa	Cable Modem	456	19211	1273	20484
	Optical Carrier/Fiber to the End User	59	162	53	215
Kansas	Cable Modem	5505	271194	20758	291952

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	767	2188	902	3090
Louisiana	Cable Modem	9683	437696	36825	474521
	Optical Carrier/Fiber to the End User	1836	7492	2617	10109
Massachusetts	Cable Modem	26	1075	14	1089
	Optical Carrier/Fiber to the End User	2	0	2	2
Nebraska	Cable Modem	3688	203576	14877	218453
	Optical Carrier/Fiber to the End User	917	10869	818	11687

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
Nevada	Cable Modem	8620	595992	41757	637749
	Optical Carrier/Fiber to the End User	1851	35231	2236	37467
North Carolina	Cable Modem	21	515	9	524
	Optical Carrier/Fiber to the End User	3	0	3	3
Ohio	Cable Modem	1345	50506	2995	53501
	Optical Carrier/Fiber to the End User	47	127	49	176
Oklahoma	Cable Modem	9607	428780	40387	469167

State	Technology	Census Tracts	Subscriptions		
			Consumer	Business / Govt	Total
	Optical Carrier/Fiber to the End User	2708	16436	3685	20121
Rhode Island	Cable Modem	4322	200562	17336	217898
	Optical Carrier/Fiber to the End User	412	1630	476	2106
Virginia	Cable Modem	12132	566476	53615	620091
	Optical Carrier/Fiber to the End User	1926	10216	2863	13079
Total		117757	5737700	452220	6189920

Fixed Broadband Subscriptions by Bandwidths and End-user Type

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
0.256	0.256	0	143	143
0.384	0.384	0	3720	3720
0.512	0.512	0	4	4
1.000	0.256	0	6	6
1.000	1.000	0	44	44
1.500	0.384	0	226	226
1.500	0.512	0	2	2
1.500	1.500	0	241	241
2.000	0.384	0	71	71

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
2.000	2.000	0	2375	2375
3.000	0.512	0	1110	1110
3.000	3.000	0	112	112
4.000	4.000	0	6	6
5.000	1.000	10	521	531
5.000	2.000	0	515	515
5.000	5.000	0	295	295
6.000	1.000	0	716	716
6.000	2.000	0	40	40

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
6.000	6.000	0	45	45
7.000	7.000	0	3	3
8.000	2.000	0	7	7
8.000	8.000	0	3	3
9.000	1.000	0	714	714
9.000	9.000	0	1	1
10.000	1.000	226333	0	226333
10.000	2.000	0	48805	48805
10.000	3.000	0	40	40

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10.000	10.000	0	939	939
15.000	2.000	15337	0	15337
15.000	3.000	0	5671	5671
15.000	5.000	0	307	307
15.000	15.000	0	10	10
15.500	5.000	0	27	27
20.000	3.000	0	9703	9703
20.000	4.000	0	2	2
20.000	20.000	0	1585	1585

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
25.000	3.000	170729	0	170729
25.000	4.000	0	1393	1393
25.000	5.000	18273	75932	94205
25.000	10.000	0	64	64
25.000	15.000	0	2	2
25.000	25.000	0	49	49
28.000	4.000	0	126	126
30.000	10.000	0	128	128
30.000	30.000	0	764	764

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
40.000	40.000	0	304	304
45.000	45.000	0	7	7
50.000	3.000	847686	0	847686
50.000	5.000	0	6654	6654
50.000	10.000	0	106059	106059
50.000	15.000	0	146	146
50.000	50.000	0	3771	3771
60.000	15.000	0	108	108
60.000	60.000	0	13	13

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
70.000	70.000	0	6	6
75.000	10.000	0	4	4
75.000	25.000	0	539	539
75.000	75.000	0	13	13
80.000	10.000	0	4	4
80.000	20.000	0	19	19
80.000	80.000	0	1	1
90.000	90.000	0	3	3
100.000	10.000	27789	104	27893

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
100.000	20.000	0	103299	103299
100.000	30.000	0	69	69
100.000	50.000	0	1	1
100.000	100.000	0	7045	7045
130.000	130.000	0	1	1
140.000	30.000	0	4	4
150.000	10.000	2590853	40	2590893
150.000	20.000	4407	739	5146
150.000	40.000	0	6	6

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
150.000	150.000	0	128	128
155.000	155.000	0	5	5
200.000	10.000	190041	0	190041
200.000	20.000	0	31168	31168
200.000	200.000	0	2562	2562
250.000	250.000	0	56	56
300.000	30.000	646284	19119	665403
300.000	50.000	0	2	2
300.000	75.000	0	12	12

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
300.000	80.000	0	1	1
300.000	300.000	0	1378	1378
400.000	400.000	0	292	292
500.000	10.000	372539	0	372539
500.000	35.000	0	4749	4749
500.000	500.000	0	1382	1382
600.000	600.000	0	22	22
700.000	700.000	0	17	17
800.000	800.000	0	3	3

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
900.000	900.000	0	3	3
1000.000	35.000	577483	3275	580758
1000.000	1000.000	49936	2214	52150
2000.000	2000.000	0	142	142
3000.000	3000.000	0	43	43
4000.000	4000.000	0	26	26
5000.000	5000.000	0	66	66
6000.000	6000.000	0	3	3
8000.000	8000.000	0	7	7

Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
10000.000	10000.000	0	103	103
20000.000	20000.000	0	4	4
30000.000	30000.000	0	1	1
40000.000	40000.000	0	6	6
100000.000	100000.000	0	5	5
Total		5737700	452220	6189920

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

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
Cable Modem	0.256	0.256	0	138	138
	0.384	0.384	0	3714	3714

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	1.000	0.256	0	6	6
	1.500	0.384	0	226	226
	1.500	1.500	0	9	9
	2.000	0.384	0	71	71
	2.000	2.000	0	2304	2304
	3.000	0.512	0	1110	1110
	3.000	3.000	0	15	15
	5.000	1.000	10	495	505
	5.000	2.000	0	497	497

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	5.000	5.000	0	3	3
	6.000	1.000	0	716	716
	6.000	2.000	0	39	39
	9.000	1.000	0	714	714
	10.000	1.000	222665	0	222665
	10.000	2.000	0	48775	48775
	10.000	10.000	0	1	1
	15.000	2.000	15307	0	15307
	15.000	3.000	0	5571	5571

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	15.000	5.000	0	99	99
	20.000	3.000	0	9703	9703
	20.000	4.000	0	2	2
	20.000	20.000	0	3	3
	25.000	3.000	169517	0	169517
	25.000	4.000	0	1393	1393
	25.000	5.000	18191	75786	93977
	25.000	15.000	0	2	2
	28.000	4.000	0	126	126

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	30.000	10.000	0	128	128
	30.000	30.000	0	2	2
	50.000	3.000	828613	0	828613
	50.000	5.000	0	6654	6654
	50.000	10.000	0	105727	105727
	50.000	15.000	0	9	9
	60.000	15.000	0	108	108
	80.000	10.000	0	4	4
	100.000	10.000	27602	104	27706

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	100.000	20.000	0	102988	102988
	140.000	30.000	0	4	4
	150.000	10.000	2500165	40	2500205
	150.000	20.000	4376	739	5115
	200.000	10.000	188393	0	188393
	200.000	20.000	0	30991	30991
	300.000	30.000	613354	18935	632289
	500.000	10.000	354462	0	354462
	500.000	35.000	0	4720	4720

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	1000.000	35.000	571528	3259	574787
Optical Carrier/Fiber to the End User	0.256	0.256	0	5	5
	0.384	0.384	0	6	6
	0.512	0.512	0	4	4
	1.000	1.000	0	44	44
	1.500	0.512	0	2	2
	1.500	1.500	0	232	232
	2.000	2.000	0	71	71
	3.000	3.000	0	97	97

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	4.000	4.000	0	6	6
	5.000	1.000	0	26	26
	5.000	2.000	0	18	18
	5.000	5.000	0	292	292
	6.000	2.000	0	1	1
	6.000	6.000	0	45	45
	7.000	7.000	0	3	3
	8.000	2.000	0	7	7
	8.000	8.000	0	3	3

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	9.000	9.000	0	1	1
	10.000	1.000	3668	0	3668
	10.000	2.000	0	30	30
	10.000	3.000	0	40	40
	10.000	10.000	0	938	938
	15.000	2.000	30	0	30
	15.000	3.000	0	100	100
	15.000	5.000	0	208	208
	15.000	15.000	0	10	10

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	15.500	5.000	0	27	27
	20.000	20.000	0	1582	1582
	25.000	3.000	1212	0	1212
	25.000	5.000	82	146	228
	25.000	10.000	0	64	64
	25.000	25.000	0	49	49
	30.000	30.000	0	762	762
	40.000	40.000	0	304	304
	45.000	45.000	0	7	7

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	50.000	3.000	19073	0	19073
	50.000	10.000	0	332	332
	50.000	15.000	0	137	137
	50.000	50.000	0	3771	3771
	60.000	60.000	0	13	13
	70.000	70.000	0	6	6
	75.000	10.000	0	4	4
	75.000	25.000	0	539	539
	75.000	75.000	0	13	13

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	80.000	20.000	0	19	19
	80.000	80.000	0	1	1
	90.000	90.000	0	3	3
	100.000	10.000	187	0	187
	100.000	20.000	0	311	311
	100.000	30.000	0	69	69
	100.000	50.000	0	1	1
	100.000	100.000	0	7045	7045
	130.000	130.000	0	1	1

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	150.000	10.000	90688	0	90688
	150.000	20.000	31	0	31
	150.000	40.000	0	6	6
	150.000	150.000	0	128	128
	155.000	155.000	0	5	5
	200.000	10.000	1648	0	1648
	200.000	20.000	0	177	177
	200.000	200.000	0	2562	2562
	250.000	250.000	0	56	56

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	300.000	30.000	32930	184	33114
	300.000	50.000	0	2	2
	300.000	75.000	0	12	12
	300.000	80.000	0	1	1
	300.000	300.000	0	1378	1378
	400.000	400.000	0	292	292
	500.000	10.000	18077	0	18077
	500.000	35.000	0	29	29
	500.000	500.000	0	1382	1382

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	600.000	600.000	0	22	22
	700.000	700.000	0	17	17
	800.000	800.000	0	3	3
	900.000	900.000	0	3	3
	1000.000	35.000	5955	16	5971
	1000.000	1000.000	49936	2214	52150
	2000.000	2000.000	0	142	142
	3000.000	3000.000	0	43	43
	4000.000	4000.000	0	26	26

Technology	Downstream Bandwidth (in Mbps)	Upstream Bandwidth (in Mbps)	Consumer	Business / Govt	Total
	5000.000	5000.000	0	66	66
	6000.000	6000.000	0	3	3
	8000.000	8000.000	0	7	7
	10000.000	10000.000	0	103	103
	20000.000	20000.000	0	4	4
	30000.000	30000.000	0	1	1
	40000.000	40000.000	0	6	6
	100000.000	100000.000	0	5	5
Total			5737700	452220	6189920

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
Alabama	0	0	46	0
Arizona	1148	0	566546	349060
Arkansas	0	0	53994	24761
California	2993	0	494349	298496
Colorado	0	0	1126	0
Connecticut	4	0	78175	55644
Florida	0	0	101764	56974
Georgia	0	0	36775	21683

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Idaho	0	0	3120	2014
Illinois	0	0	62	0
Indiana	0	0	38	0
Iowa	2	0	13444	8046
Kansas	401	0	132968	65300
Kentucky	0	0	4	0
Louisiana	33	0	228251	126779
Maryland	0	0	135	0
Massachusetts	0	0	92	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Michigan	0	0	25	0
Missouri	0	0	63	0
Nebraska	685	0	125098	65921
Nevada	0	0	270915	171771
New York	0	0	4	0
Ohio	0	0	23427	16998
Oklahoma	2636	0	267197	127983
Oregon	0	0	48	0
Pennsylvania	0	0	48	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Rhode Island	111	0	150718	86838
South Carolina	0	0	4	0
South Dakota	0	0	4	0
Tennessee	0	0	164	0
Texas	0	0	449	0
Utah	0	0	76	0
Virginia	5796	0	375915	190655
Washington	0	0	18	0
West Virginia	0	0	13	0

State	Total VGE Lines	Consumer VGE Lines	Total VoIP Subscriptions	Consumer VoIP Subscriptions
Total	13809	0	2925075	1668923

Fixed Voice Subscription (VGE Lines)

VGE Lines Provided to Unaffiliated Providers by State

State	Wholesale	UNE-L
Arizona	0	0
California	0	0
Connecticut	0	0
Iowa	0	0
Kansas	0	0
Louisiana	0	0

State	Wholesale	UNE-L
Nebraska	0	0
Oklahoma	0	0
Rhode Island	0	0
Virginia	0	0
Total	0	0

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

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Arizona	1148	27	1121	0	0	761	387

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
California	2993	65	2928	0	0	1752	1241
Connecticut	4	0	4	0	0	3	1
Iowa	2	0	2	0	0	1	1
Kansas	401	8	393	0	0	328	73
Louisiana	33	3	30	0	0	30	3
Nebraska	685	12	673	0	0	532	153
Oklahoma	2636	50	2586	0	0	1394	1242
Rhode Island	111	10	101	0	0	7	104

State	Total	by Bundle		by Product Type			
		Sold w/ Internet	Sold w/o Internet	Consumer		Bus-Govt	
				& No PIC	& PIC	& No PIC	& PIC
Virginia	5796	66	5730	0	0	4782	1014
Total	13809	241	13568	0	0	9590	4219

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
Arizona	1148	1057	91	0	8	1140	0	0
California	2993	2700	293	0	902	2091	0	0
Connecticut	4	4	0	0	0	4	0	0

State	Total	by Ownership			by Last-mile Medium			
		Owned	UNE-L	Resale	FTTP	Coax	Fixed Wireless	Copper
Iowa	2	2	0	0	0	2	0	0
Kansas	401	381	20	0	0	401	0	0
Louisiana	33	30	3	0	10	23	0	0
Nebraska	685	664	21	0	0	685	0	0
Oklahoma	2636	2428	208	0	152	2484	0	0
Rhode Island	111	108	3	0	0	111	0	0
Virginia	5796	5512	284	0	467	5329	0	0
Total	13809	12886	923	0	1539	12270	0	0

Fixed Voice Subscription (iVoIP)

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

State	Total	Consumer	Business / Govt
Alabama	46	0	46
Arizona	555	0	555
Arkansas	362	0	362
California	7551	0	7551
Colorado	1126	0	1126
Connecticut	11	0	11
Florida	142	0	142
Georgia	23	0	23
Idaho	53	0	53

State	Total	Consumer	Business / Govt
Illinois	62	0	62
Indiana	38	0	38
Iowa	76	0	76
Kansas	1116	0	1116
Kentucky	4	0	4
Louisiana	245	0	245
Maryland	135	0	135
Massachusetts	82	0	82
Michigan	25	0	25

State	Total	Consumer	Business / Govt
Missouri	63	0	63
Nebraska	932	0	932
Nevada	436	0	436
New York	4	0	4
Ohio	67	0	67
Oklahoma	580	0	580
Oregon	48	0	48
Pennsylvania	48	0	48
Rhode Island	88	0	88

State	Total	Consumer	Business / Govt
South Carolina	4	0	4
South Dakota	4	0	4
Tennessee	164	0	164
Texas	449	0	449
Utah	76	0	76
Virginia	2543	0	2543
Washington	18	0	18
West Virginia	13	0	13
Total	17189	0	17189

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
Alabama	0	0	0	0	0	0	0	0	0
Arizona	565991	349060	216931	467903	98088	14623	551368	0	0
Arkansas	53632	24761	28871	43310	10322	470	53162	0	0
California	486798	298496	188302	391248	95550	26363	460435	0	0
Colorado	0	0	0	0	0	0	0	0	0
Connecticut	78164	55644	22520	67847	10317	335	77829	0	0
Florida	101622	56974	44648	86630	14992	1735	99887	0	0
Georgia	36752	21683	15069	32070	4682	669	36083	0	0

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
Massachusetts	10	0	10	0	10	10	0	0	0
Michigan	0	0	0	0	0	0	0	0	0
Missouri	0	0	0	0	0	0	0	0	0
Nebraska	124166	65921	58245	93463	30703	1811	122355	0	0
Nevada	270479	171771	98708	233004	37475	7417	263062	0	0
New York	0	0	0	0	0	0	0	0	0
Ohio	23360	16998	6362	20456	2904	34	23326	0	0
Oklahoma	266617	127983	138634	202034	64583	11790	254827	0	0

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	373372	190655	182717	276004	97368	4354	369018	0	0
Washington	0	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0	0
Total	2907886	1668923	1238963	2330578	577308	72369	2835517	0	0



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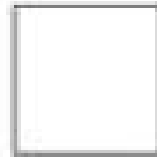
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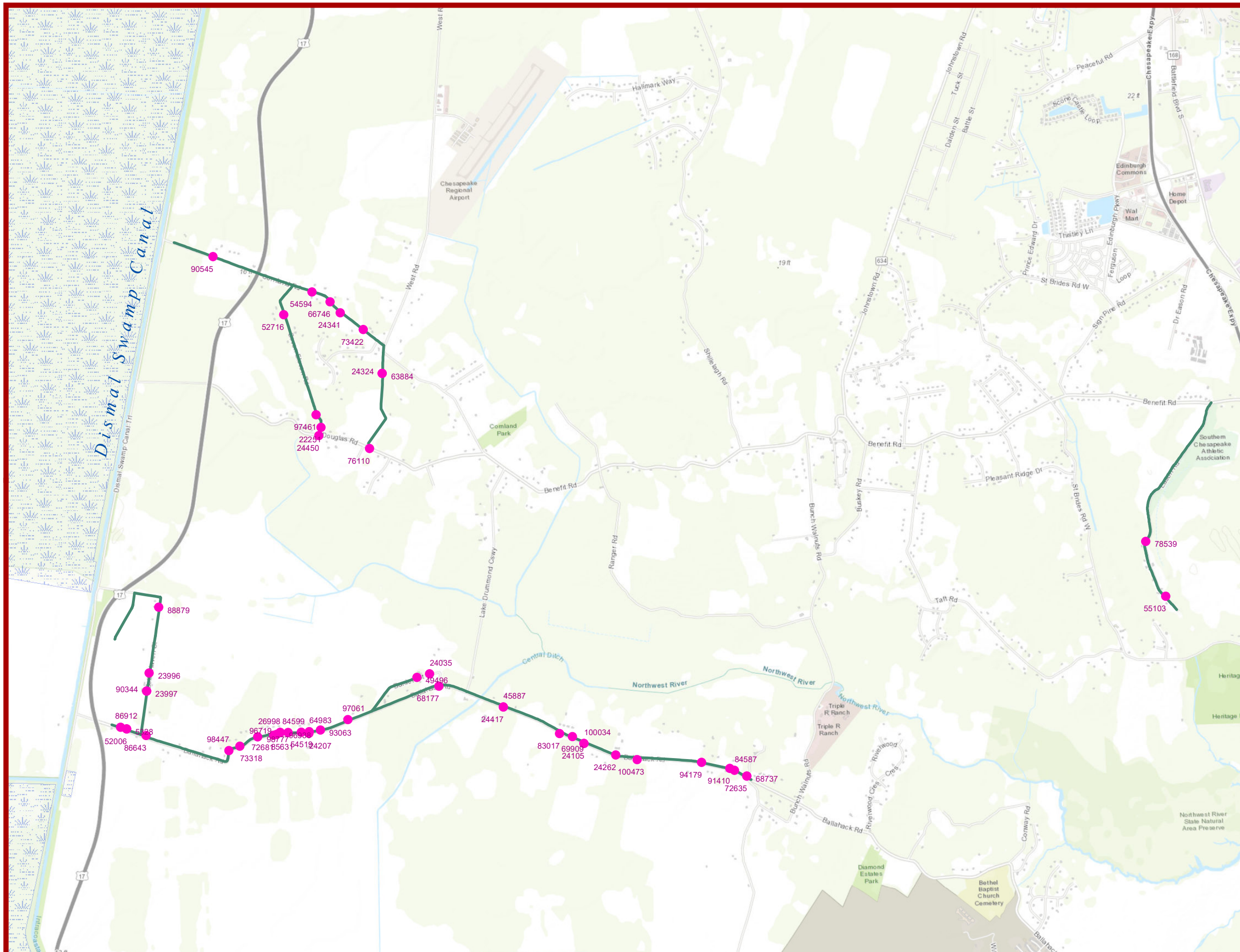
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VATI 2022

Businesses



- Businesses
- VATI 2022 Project
- railroads
- Dismal Swamp

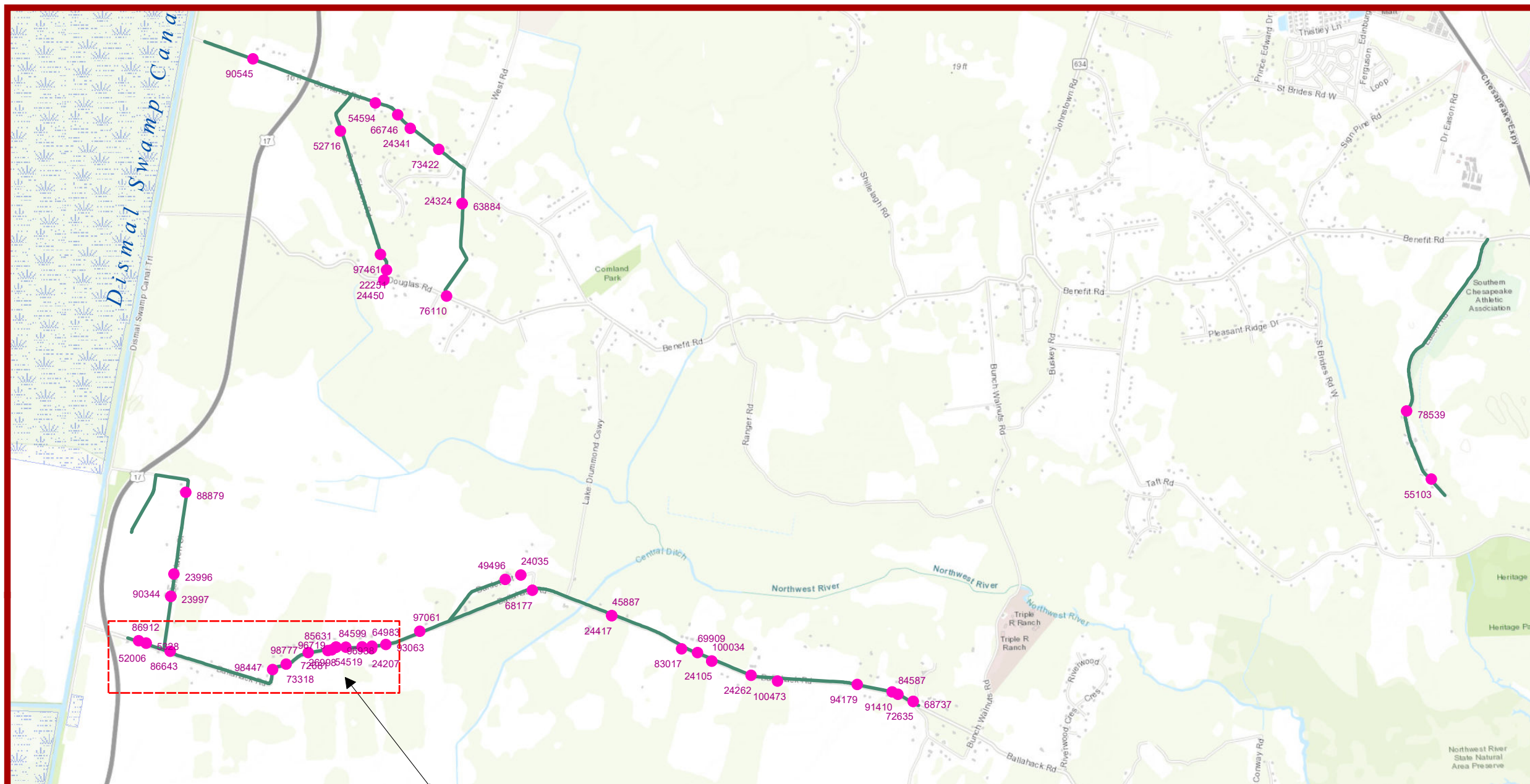



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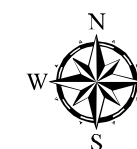
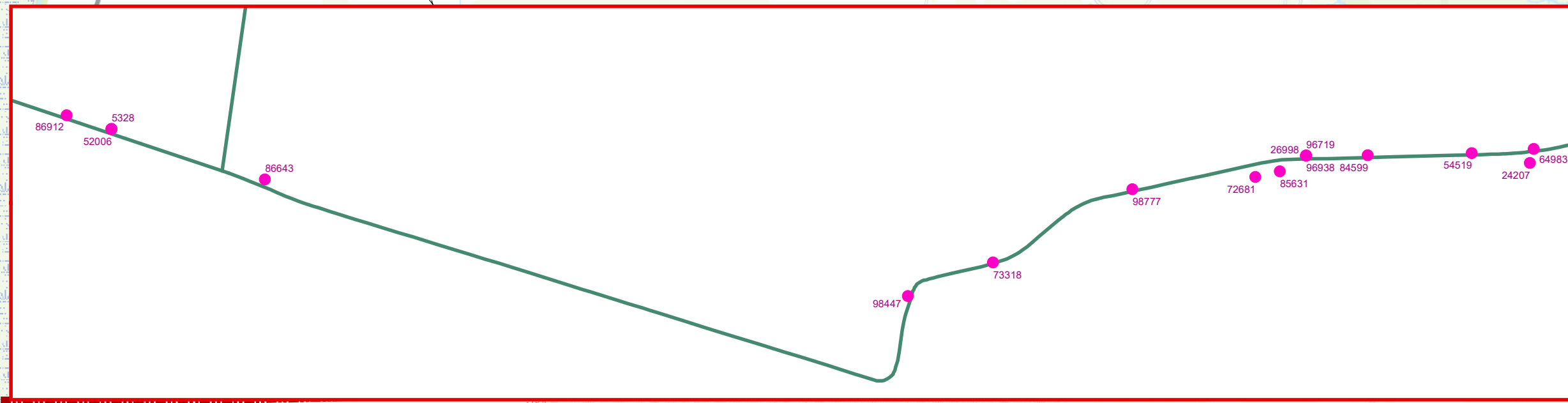


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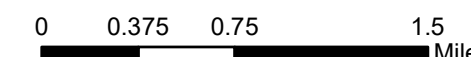
Businesses



-  Businesses
-  VATI 2022 Project railroads
-  railroads
-  Dismal Swamp



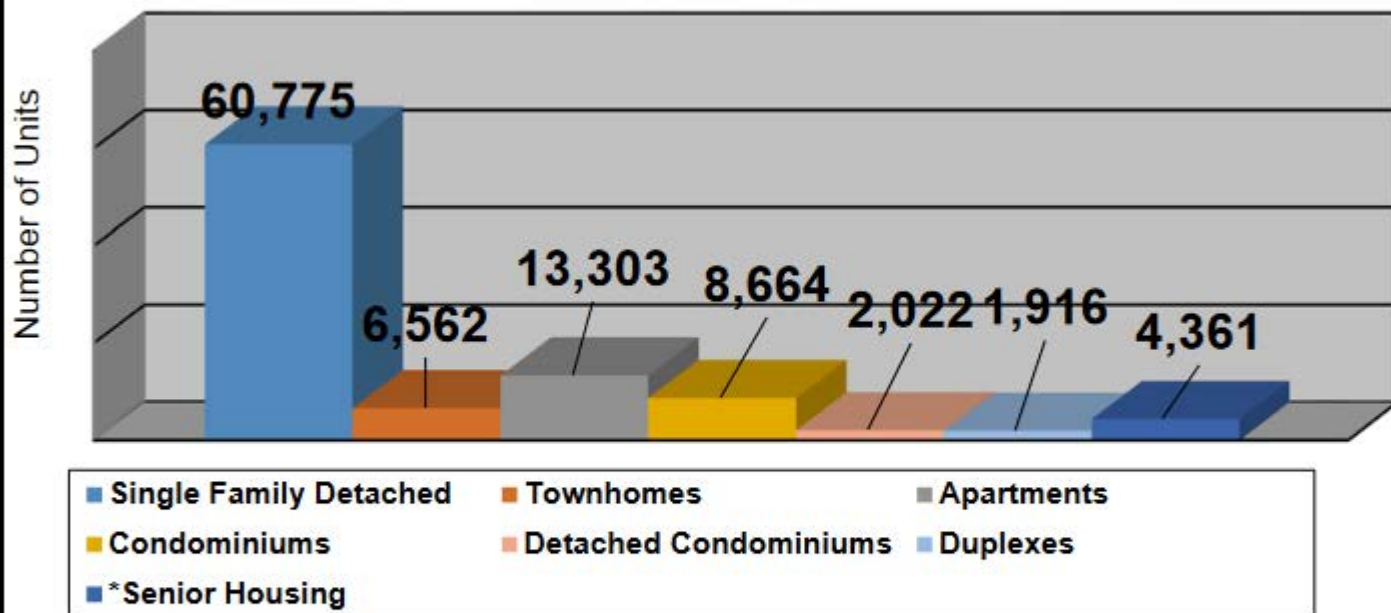
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**Businesses
along VATI 2022 Route**

ACCOUNTNUM	TRADENAME	TRADEINVER	ADDRESS	ZIPCODE	BUSTYPEDES	BUSNACDESC	NAICSCODE	BOROUGH	CENSUS	RESIDENCEC	STARTDATE
24035	Ervin R(Cullipher)	Cullipher Ervin R	4134 BURDETT ST	23322	Farm	Farm	0	PG	21200	Residential	1988-09-16
24105	Irving M(Garrett)	Garrett Irving M	3441 BALLAHACK RD	23322	Farm	Farm	0	PG	21200	Residential	1988-09-20
24262	Charlie Ray(Mcpherson)	Mcpherson Charlie Ray	3320 BALLAHACK RD	23322	Farm	Farm	0	PG	21200	Residential	1988-10-03
24417	Stonecypher Farm	Stonecypher Farm	3827 BALLAHACK RD	23322	Farm	Farm	0	PG	21200	Residential	1988-10-17
45887	Dismal Swamp Company	Dismal Swamp Company	3827 BALLAHACK RD	23322	Pers Serv	Personal Service - Lawn Care, Landscaping Design & Care	811411	PG	21200	Residential	1997-10-01
49496	Keith(Williams)Const Llc	Williams Keith Const Llc	4148 BURDETT ST	23322	Contractor	Contractors - Finish Carpentry	238350	PG	21200	Residential	1999-04-28
52006	Barbara Ann(Johnson)	Johnson Barbara Ann	5128 BALLAHACK RD	23322	Retail Mer	Retail Merchant - Furniture	442110	PG	21200	Residential	2000-04-11
54519	Patterson Quarter Horses	Patterson Quarter Horses	4416 BALLAHACK RD	23322	Misc Bus	Miscellaneous Bus -All Other	300	PG	21001	Residential	2001-01-01
64983	Southside Building Svcs Inc	Southside Building Svcs Inc	4400 BALLAHACK RD	23322	Contractor	Contractors Residential Remodelers	236118	PG	21200	Residential	2005-01-06
72635	Ballahack Airsoft	Ballahack Airsoft	2900 BALLAHACK RD	23322	Retail Mer	Retail Merchant - Hobby, Toy, & Games	451120	PG	21200	Residential	2007-06-05
72681	Roses Wellness Center	Roses Wellness Center	4517 BALLAHACK RD	23322	Pers Serv	Personal Service - All Others	812990	PG	21200	Residential	2011-01-24
84587	Shadowcast Films Llc	Shadowcast Films Llc	2916 BALLAHACK RD	23322	Retail Merchant (E Commerce)	Retail Merchant - E Commerce	454111	PG	21200	Residential	2012-03-20
84599	Whm Investments Llc	Whm Investments Llc	4432 BALLAHACK RD	23322	Investment Developer	Investment Developer	133	PG	21200	Residential	2017-05-01
86912	Ecs Construction Llc	Ecs Construction Llc	5132 BALLAHACK RD	23322	Contractor	Contractors Residential Remodelers	236118	PG	21200	Residential	2012-01-01
88879	Corrosion Control Services Llc	Corrosion Control Services Llc	3504 BELLE HAVEN ST	23322	Pers Serv	Personal Service - All Others	812990	PG	21200	Residential	2012-01-01
91410	Claremont John(Clifton)	Clifton Claremont John	2932 BALLAHACK RD	23322	Pers Serv	Personal Service - Lawn Care, Landscaping Design & Care	811411	PG	21200	Residential	2012-01-02
98777	Five Star Home Improvements	Five Star Home Improvements	4540 BALLAHACK RD	23322	Contractor	Contractors Painting & Wall Covering	238320	PG	21200	Residential	2019-06-05
96938	Landles Tree Care	Landles Tree Care	4500 BALLAHACK RD	23322	Comm Serv	Commercial Service-Tree Surgeon,Stump Grinding,Tree Removal	561730	PG	21200	Residential	2018-06-20
73318	Ernie Lees Painting Inc	Ernie Lees Painting Inc	4612 BALLAHACK RD	23322	Contractor	Contractors Painting & Wall Covering	238320	PG	21200	Residential	2007-08-30
23996	Cartwright & Cartwright	Cartwright & Cartwright	3705 BELLE HAVEN ST	23322	Farm	Farm	0	PG	21200	Residential	1988-09-14
23997	Jack B(Cartwright)	Cartwright Jack B	3728 BELLE HAVEN ST	23322	Farm	Farm	0	PG	21200	Residential	1988-09-14
94179	Pleasant Pines Senior Care Llc	Pleasant Pines Senior Care Llc	3024 BALLAHACK RD	23322	Specialized Services - Home Health Care & Companion Aid	Specialized Services - Independent Nurse	621610	PG	21200	Residential	2017-02-21
83017	Cab Homes Inc	Cab Homes Inc	3537 BALLAHACK RD	23322	Contractor	Contractors New Single Family Housing	236115	PG	21200	Commercial	2017-10-06
24207	John F & William(Knowles)	Knowles John F & William	4401 BALLAHACK RD	23322	Farm	Farm	0	PG	21200	Residential	1988-09-28
5328	Dick Johnson Horseshoeing	Dick Johnson Horseshoeing	5128 BALLAHACK RD	23322	Misc Bus	Miscellaneous Business - Riding Academy & Livery Stables	713990	PG	21200	Residential	1979-01-01
96719	Landles Lawn Care Llc	Landles Lawn Care Llc	4500 BALLAHACK RD	23322	Pers Serv	Personal Service - Lawn Care, Landscaping Design & Care	811411	PG	21200	Residential	2018-05-04
97061	Kelley Pool Services	Kelley Pool Services	4236 BALLAHACK RD	23322	Pers Serv	Personal Service - All Others	812990	PG	21200	Residential	2018-07-19
98447	Copper Bit Boutique Lc	Copper Bit Boutique Lc	4620 BALLAHACK RD	23322	Retail Merchant (E Commerce)	Retail Merchant - E Commerce	454111	PG	21200	Residential	2019-04-02
90344	Cartwrights Home Improvements Llc	Cartwrights Home Improvements Llc	3728 BELLE HAVEN ST	23322	Contractor	Contractors Residential Remodelers	236118	PG	21200	Residential	2015-03-18
85631	Kevin(Janisich)	Janisich Kevin	4505 BALLAHACK RD	23322	Contractor	Contractors Siding	238170	PG	21200	Residential	2011-02-01
78539	Tender Loving Senior Care	Tender Loving Senior Care	3108 EASON RD	23322	Pers Serv	Personal Service - All Others	812990	PG	21200	Residential	2009-08-26
68737	Case Goods Refinishing	Case Goods Refinishing	2900 BALLAHACK RD	23322	Contractor	Contractors - Finish Carpentry	238350	PG	21200	Residential	2006-03-09
69909	Fingerprint Marketing	Fingerprint Marketing	3524 BALLAHACK RD	23322	Spec Serv	Specialized Service - Business Consultants	392	PG	21200	Residential	2006-08-09
100034	Autumn Lake Golden Retrievers Llc	Autumn Lake Golden Retrievers Llc	3441 BALLAHACK RD	23322	Retail Mer	Retail Merchant - Pet & Pet Supplies	453910	PG	21200	Residential	2020-02-21
100473	C & J Transport Inc	C & J Transport Inc	3213 BALLAHACK RD	23322	Haul Local	Transfer & Hauling - Dump Trucks/Light Hauling Vehicles	562119	PG	21200	Commercial	2020-08-01
93063	Amber L(Parks)	Parks Amber L	4336 BALLAHACK RD	23322	Retail Merchant (E Commerce)	Retail Merchant - E Commerce	454111	PG	21200	Residential	2015-01-01
86643	Stewarts Land & Lawn Maintenance	Stewarts Land & Lawn Maintenance	5030 BALLAHACK RD	23322	Pers Serv	Personal Service - Lawn Care, Landscaping Design & Care	811411	PG	21200	Residential	2013-04-29
68177	Hart-Lee Builders Inc	Hart-Lee Builders Inc	4003 BALLAHACK RD	23322	Builder	Builder	236117	PG	21200	Residential	2006-01-12
55103	Coastal Audio	Coastal Audio	3237 EASON RD	23322	Contractor	Contractor	0	PG	21200	Residential	2016-01-04
26998	Greenbrier Remodeling	Greenbrier Remodeling	4500 BALLAHACK RD	23322	Contractor	Contractors Residential Remodelers	236118	PG	21200	Residential	2012-02-27
63884	Riddick & Sons Hauling Llc	Riddick & Sons Hauling Llc	2340 WEST RD	23322	Haul Local	Transfer & Hauling - Dump Trucks/Light Hauling Vehicles	562119	DC	21200	Residential	2004-08-19
66746	K B Ceramic Tile	K B Ceramic Tile	3628 CORNLAND RD	23322	Contractor	Contractors Tile & Terrazzo	238340	PG	21200	Residential	2005-07-01
73422	W B Allen Construction	W B Allen Construction	3500 CORNLAND RD	23322	Contractor	Contractors - Finish Carpentry	238350	PG	21200	Residential	2006-01-01
76110	Marie C(Lujan)	Lujan Marie C	3317 DOUGLAS RD	23322	Spec Serv	Specialized Service - Bookkeeping/Tax/Cler Svcs	541219	PG	21200	Residential	2007-04-01
97461	Shawn A(Rawls)	Rawls Shawn A	2900 SEVEN ELEVEN RD	23322	Contractor	Contractors Flooring	238330	PG	21200	Residential	2018-10-01
54594	Galaxy Construction Inc	Galaxy Construction Inc	3717 CORNLAND RD	23322	Contractor	Contractors Residential Remodelers	236118	PG	21200	Residential	2001-03-01
52716	Jason(Babb)Inc	Babb Jason Inc	2504 SEVEN ELEVEN RD	23322	Pers Serv	Personal Service - Lawn Care, Landscaping Design & Care	811411	PG	21200	Residential	2016-04-01
22251	Ps Power Llc	Ps Power Llc	2921 SEVEN ELEVEN RD	23322	Contractor	Contractors - All Other Specialty Trade	238990	PG	21200	Residential	2014-05-02
24450	James E(Waller)	Waller James E	3601 DOUGLAS RD	23322	Farm	Farm	0	PG	21200	Residential	1988-10-19
90545	Ptownsubbie	Ptownsubbie	4100 CORNLAND RD	23322	Retail Merchant (E Commerce)	Retail Merchant - E Commerce	454111	PG	21200	Residential	2015-04-01
24324	Ellsbury W(Riddick)Iii	Riddick Ellsbury W Iii	2340 WEST RD	23323	Farm	Farm	0	DC	21200	Residential	1988-10-06
24341	Jimmy Ray(Smith)	Smith Jimmy Ray	3613 CORNLAND RD	23322	Farm	Farm	0	PG	21200	Residential	1988-10-10

2018 Estimate of Total Existing Housing Units by Type



*Senior Housing includes 55 and older units, group housing beds, and assisted living apartments. Senior housing is based on existing and planned housing. 31 new senior condos received certificates of occupancy in 2018. These numbers are included in proposed housing.

Source: Chesapeake Planning Department



Public Affairs

Office of Government and

April 12, 2021

Dear Senator Cosgrove:

Over the past several years, Virginia has become a model in the country for expanding broadband through public-private partnerships. Thanks to historic investments made by the General Assembly in the Virginia Telecommunications Initiative (VATI), we are reaching the unserved, which has never been more important.

Despite the world's pandemic status, Cox has made significant progress - and investment - in reaching the unserved. Last we met, we had a robust conversation about broadband availability and service needs in Chesapeake; I'd like to give you an update on where we are and the investments we've made in Chesapeake to meet the growing demands for connectivity.

As you may have seen, the City of Chesapeake was recently awarded a VATI grant for \$90,177 to help fund a broadband expansion project with Cox. In addition to contributing approximately \$86,500 (or 47%) towards the construction of the network expansion, Cox will also cover all future costs associated with the operation, maintenance, and upgrade costs for the life of the network. We are thrilled for this partnership and have already begun taking the steps necessary to get started. While this \$186,421 project will reach nearly 70 homes and businesses in the southern part of Chesapeake including Land of Promise Road, John Etheridge Road and Cedarville Road, this by no means represents the extent of our investment.

In 2020, the Cox team completed several projects to make broadband access available to 1,059 homes in Chesapeake, including areas in the southern part of the city like Long Ridge Road, St. Brides Road and Head of River Road. This private investment of nearly \$2.3 million to connect these homes - many with fiber to the home technology - was 100% funded by Cox. Furthermore, as of February 28, 2021, 52 additional homes were connected to broadband access through the completion of the Beaver Dam Road project.

Looking toward the future, we have additional network investments planned for Chesapeake this year. Residents living in the Ballahack Road/Lake Drummond Causeway, Cornland Road, Sanderson Road, and Indian Creek Road areas (to name a few) can expect to have access to broadband internet before the end of the year.

These projects in progress will offer connectivity for 390 residents all thanks to private investment; the VATI-supported project will bring access to an additional 53 residences and 16 businesses once it is completed this year. After construction is complete on these projects, nearly every resident in Chesapeake will be able to access broadband service from Cox. For the handful of homes our network won't reach this year, our engineers will continue to reevaluate constructions options to determine potential expansion opportunities for the future.

Finally, I'd be remiss if I didn't also mention our enhanced efforts to address broadband affordability through our \$9.95/month Connect2Compete program. In response to the pandemic, we expanded our eligibility requirements, increased connection speeds, and partnered with school districts to help cover the cost of service for many struggling families. Last year alone, we connected more than 5,100 families to the internet through this program, many of whom received their first two months free. Since launching in 2013, more than 10,000 families across the state have benefitted from Cox's investment in this low-cost program for families with school-aged children.

As you can see, Cox is committed to connectivity in Chesapeake and throughout the Commonwealth; we're continually investing in and enhancing our network to meet today's technology needs while preparing for the future with 10 gigabit service to the home as our goal. We value our partnerships with the localities where we do business and look forward to continued collaboration to not only reach the unserved - whether through network expansion or affordability programs - but to also support the growing demands on technology to meet common goals.

Best Regards,

A handwritten signature in black ink that reads "Neeka Chiaror". The signature is written in a cursive, flowing style.

Vice President, Government and Public Affairs
Cox Virginia and North Carolina