

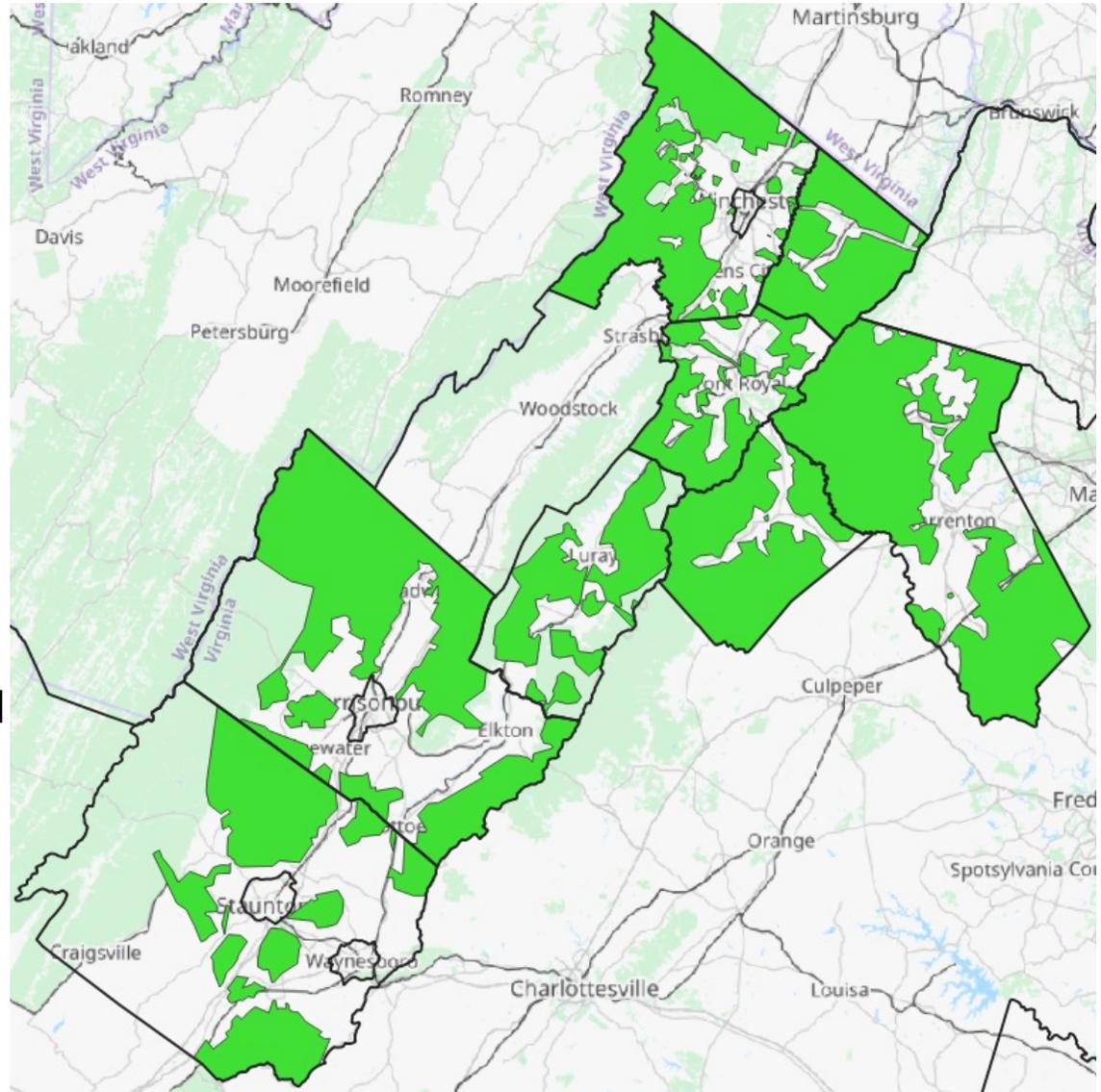


All Points Broadband Page County Update

February 5, 2024

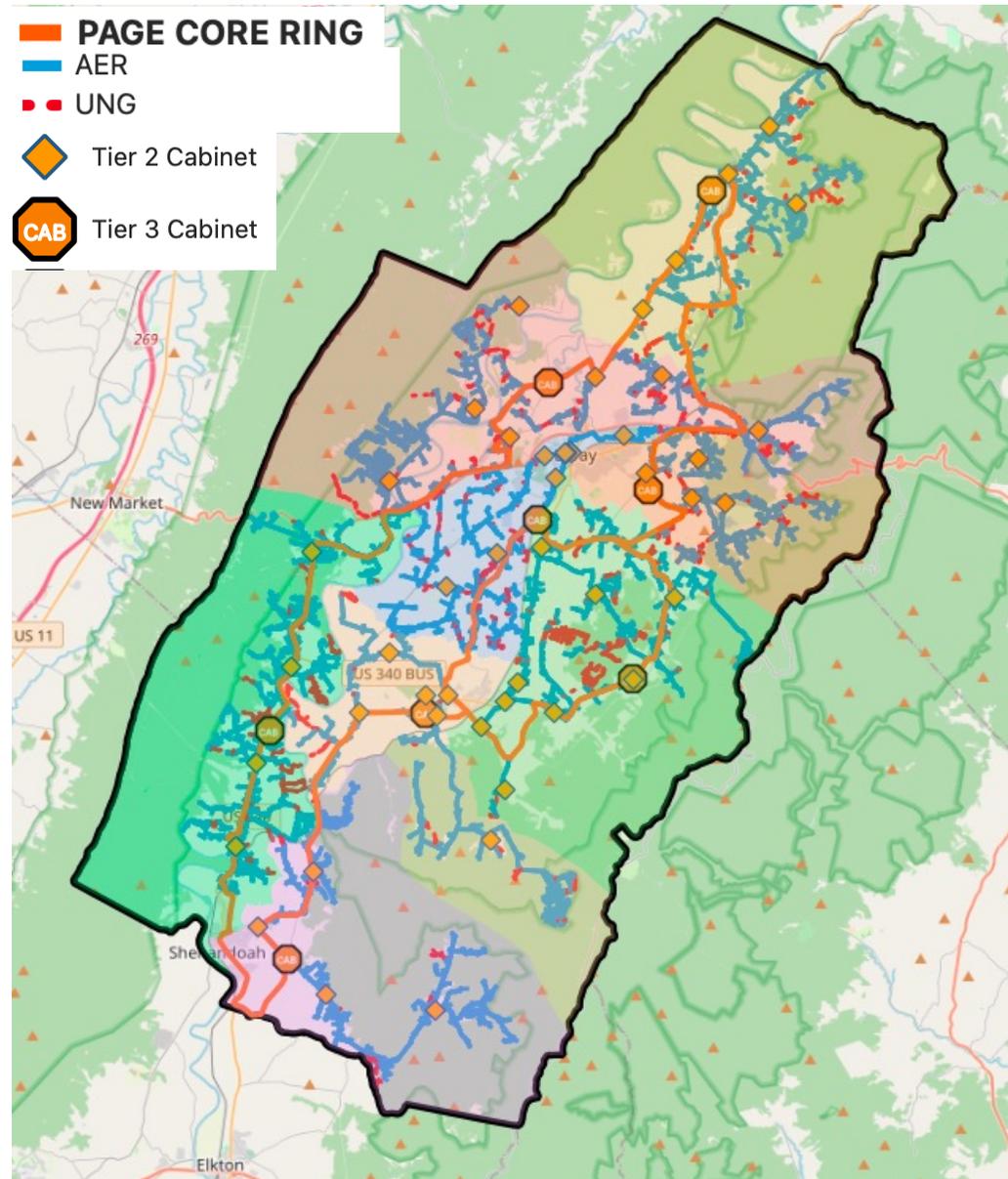
VATI Project Overview

- ~\$300M project
- VATI grant awarded 7/2022, starting 36-month project timeline for substantial completion
- ~3,100 miles distribution fiber and middle mile infrastructure
- Making FTTH broadband available to 41,690 unserved locations
- In partnership with Dominion, Rappahannock Electric Cooperative, Shenandoah Valley Electric Cooperative



Page County - VATI FY22

- 3800 eligible locations and 360 miles of fiber across 8 Fiber Service Areas (FSAs):



Project Status

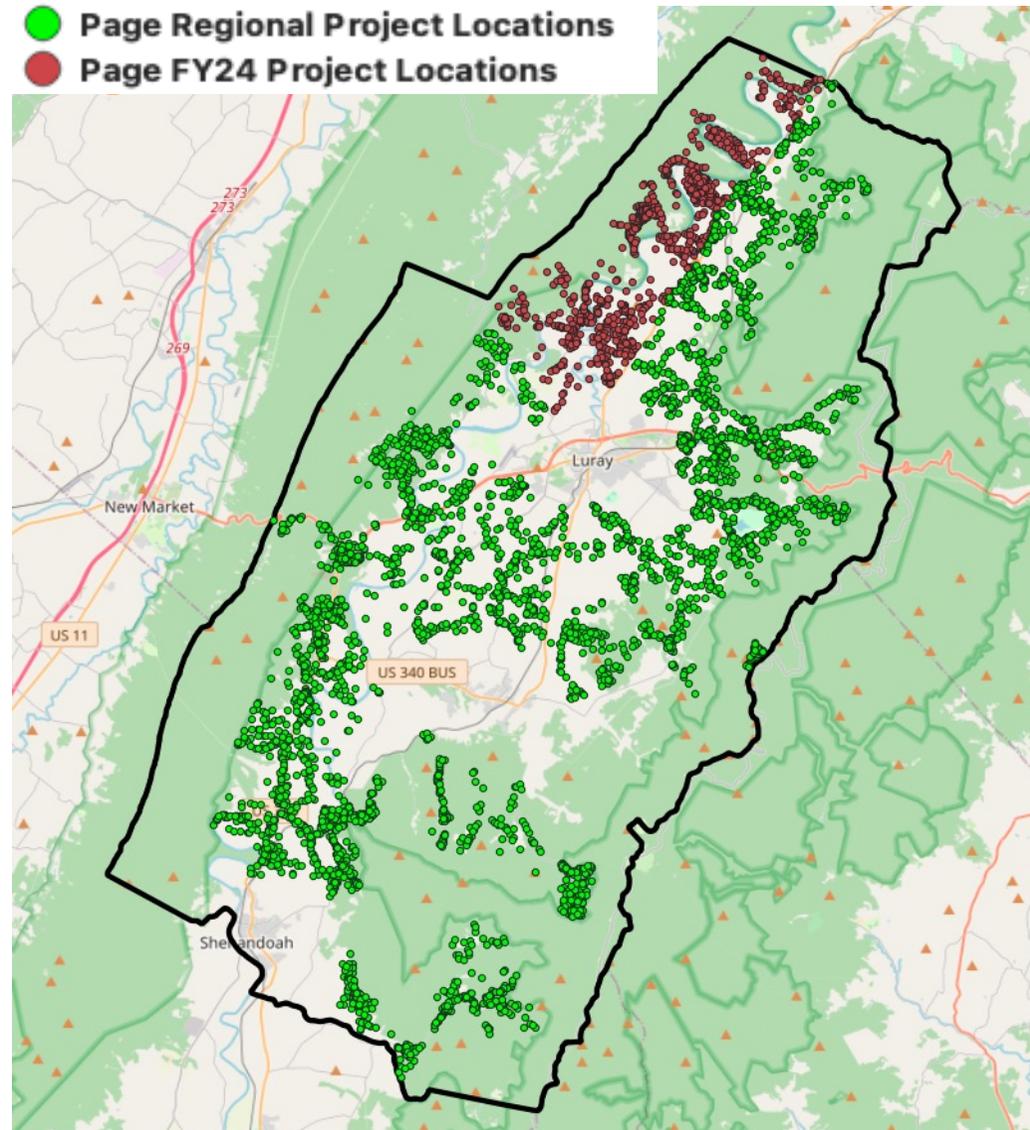
- Key dependencies for last-mile deployment:
 - 1) Middle mile capacity in place
 - 2) Utility Make Ready
 - 3) Significant queue of constructable miles
- OSP materials deliveries on schedule and inventory levels consistent with plan
 - Reminder: APB does not seek reimbursement or report progress when materials are purchased, only when specific contract milestones achieved
- Project-wide low-level design and utility pole fielding underway in advance of attachment requests for tens of thousands of poles and make-ready construction for tens of thousands of poles
- APB achieved 1st Milestone on schedule in Q4 and will report through April
 - Initial milestone represents ~20% of total county match, 33% VATI Milestone
 - Augusta remittance request submitted; Rockingham & Fauquier targeted for February; Frederick, Clarke, Warren, **Page**, and Rappahannock targeted by April

Remaining Eligible Locations Outside the FY22 VATI Project

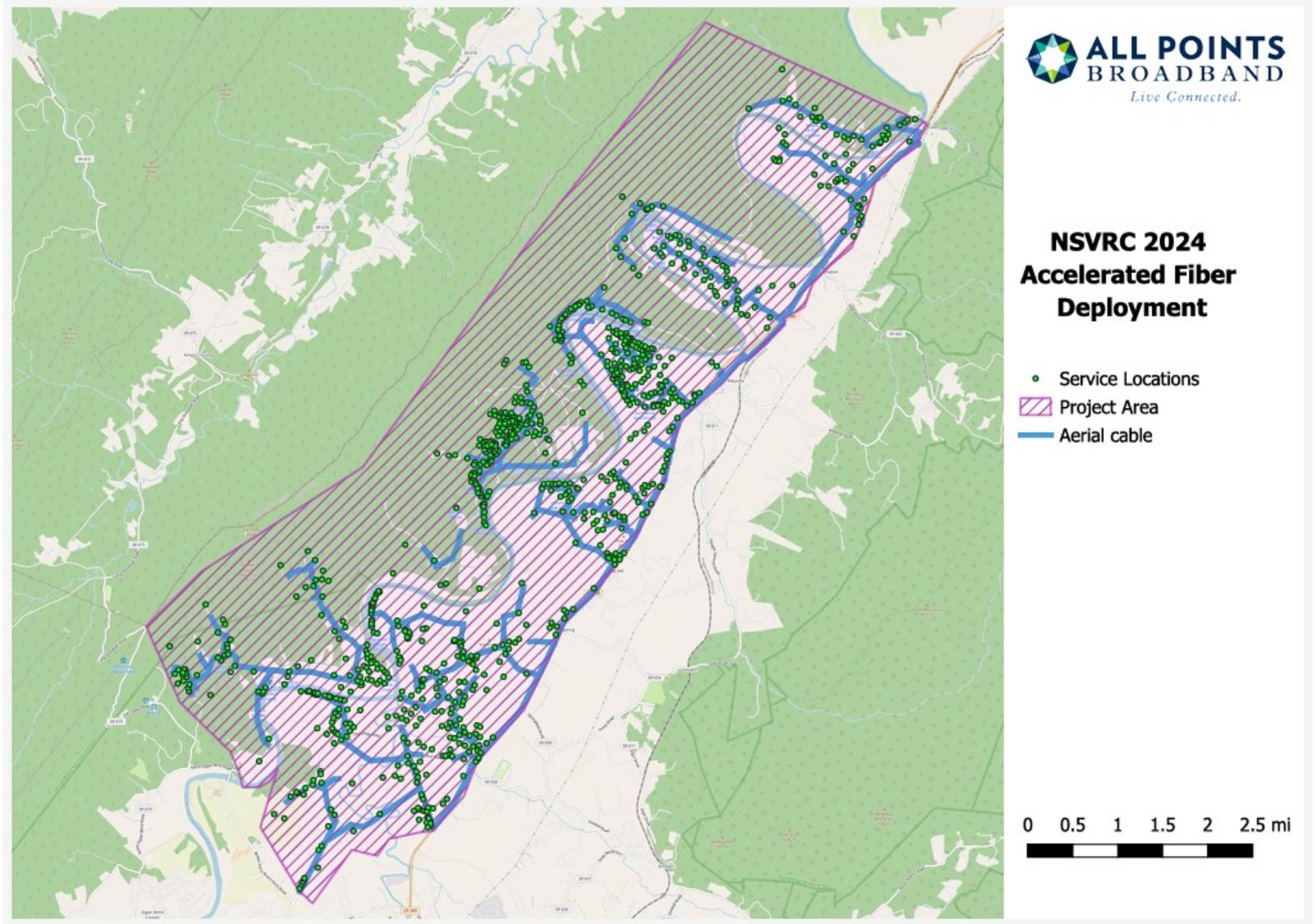
- The FY22 VATI grant is set for the specific locations included in the polygons included with the application that were not successfully challenged – FY22 VATI grant funding cannot be used for locations outside the approved project
- Because of changes in eligibility criteria and shift to new federal mapping, there are additional locations outside the project area eligible for additional state and/or federal broadband funding in the future
- APB and NSVRC applied for FY24 VATI funding in counties where it is likely another RDOF winner will not fulfill its obligations;
 - BEAD is a superior program for vast majority of eligible locations
 - **VATI FY24 application submitted for areas of Page County only**
- APB will apply for BEAD funding (Q2 2024) for the remaining BEAD-eligible locations in NSVRC project counties
 - No county match
 - APB was well prepared for the BEAD challenge process

Page County VATI FY24 - Pending

- <https://data.virginia.gov/dataset/VATI-2024-Application-Shapefiles-NSVRC-All-Points-/9y4c-pub3>
- 880 locations & 66 miles of fiber
- All Points investing \$2M; VATI request of \$4.3M; Zero County Match
- Challenges will be reported to applicants on Feb 15th; Final rescope (if any) due on April 23rd; Award announcement TBD



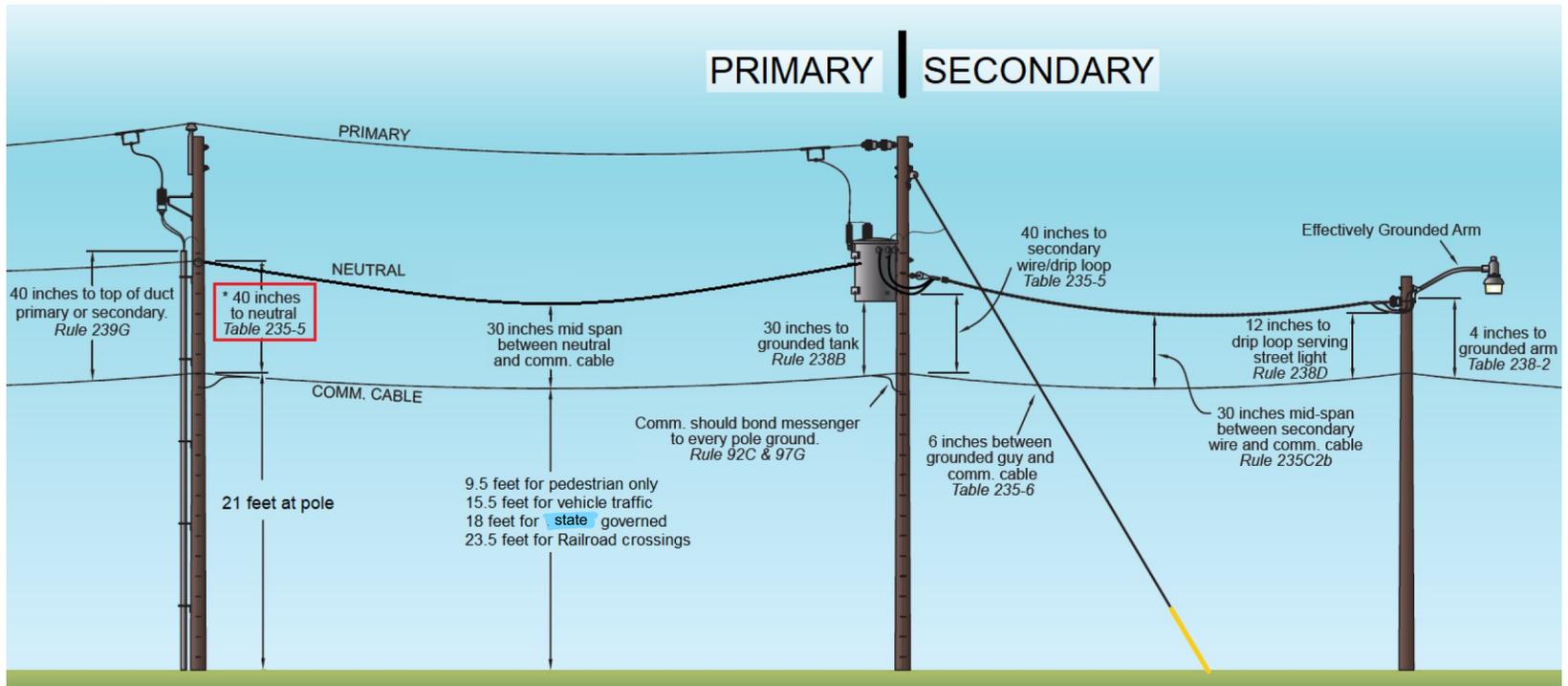
Page County VATI FY24 - Pending



NSVRC Initiative Timeline

- Q3 2022: Low-level design underway
- Q1 2023: Make ready fielding, engineering and construction commence
- Q4 2023: 1st project milestones achieved; Increase 1:1 updates w/ counties
- Q4 2023: APB/NSVRC and Page County applied for VATI funds to serve locations either ineligible/unidentified during first application or which were subject to an RDOF award to a different provider
- Q1 2024: Finalized BEAD strategy for other eligible locations – BEAD challenge process expected to close in March; 10-15k eligible locations in region but VATI is priority #1
- Q2 2024: Last-mile fiber construction commences - Augusta County initial focus of construction activity; BEAD application window opens
- Q3 2024: Commencement of customer installations in completed FSAs; BEAD awards announced
- Q3 2025: Substantial completion of last-mile network

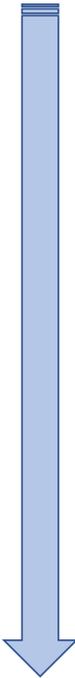
Why is Make Ready Required?



- The National Electric Safety Code (NESC) establishes certain minimum clearances that must be maintained between various components of the electric grid, telecommunications infrastructure, and the ground
- Some utilities condition access to their poles on compliance with requirements in addition to the NESC, such as the requirement to conduct Pole Loading Analysis (PLA) when certain conditions are present (span length, angle change, etc.)

Make Ready Process Overview (oversimplified)

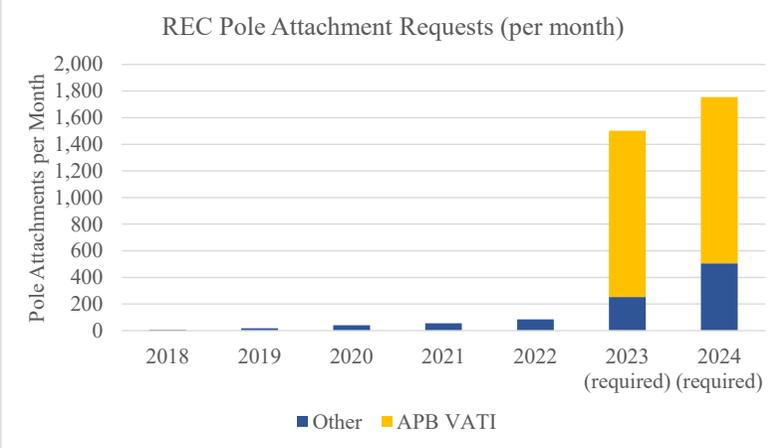
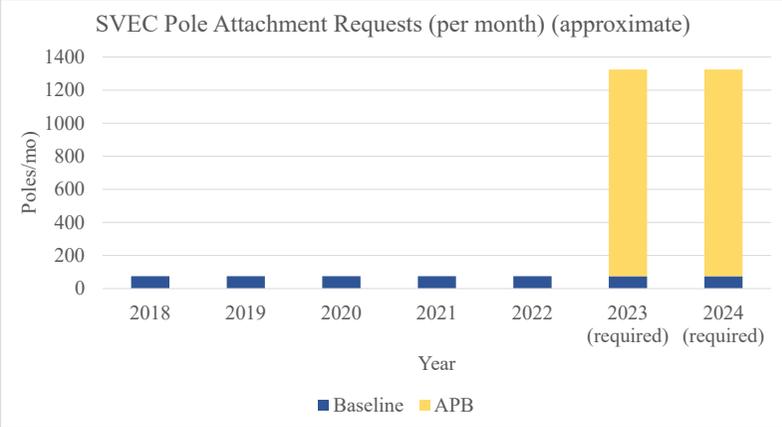
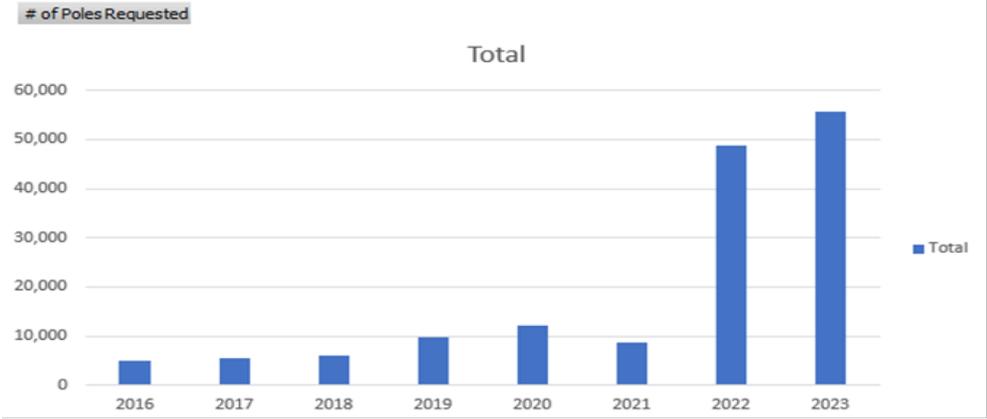
- FCC has established 165-day timeline for "large jobs"
- REC and SVEC have committed to achieving ~1,250 poles/month of NTPs (system-wide)
- APB, REC & SVEC are employing new methods and procedures to meet the shared challenge



Stage	Responsible Party	Activity	FCC Timelines for "Large Jobs"
Fielding	APB (including contractors)	Field survey each pole along route to document existing conditions	
Make Ready Engineering (MRE)	APB (including contractors)	Vendor and APB review fielding results, confirm poles for attachment; prepare/submit application to pole owner	
Pole Owner's Evaluation	Pole owner (frequently outsourced)	Review pole attachment applications. Identify make ready scope of work for electric, existing attachers, and APB. Prepare cost estimates for electric MRC	60 days
Electric Make Ready Construction (MRC)	Pole owner (frequently outsourced)	Pole owner performs make ready construction / pole replacement for its owned assets; at which point an "NTP" is issued	105 days
Communications Make Ready Construction (MRC)	3rd party attachers (frequently outsourced)	3rd party attachers relocate their attachments per approved application. Can be performed by APB through "one touch make ready" (OTMR) process with common approved vendor	30 days
Fiber Attachment	APB (outsourced to contractors)	APB releases installation contractor to hang fiber	

Generational Wave of Pole Attachment Activity

DOM Poles Requested for JU attachment in VA (historically)			
# of Poles Requested			
Years	Qu	Date Requested	Total
2016			4,927
2017			5,630
2018			6,035
2019			9,870
2020			12,059
2021			8,621
2022			48,709
2023			55,574
Grand Total			151,425



2023Q4 Regional Update - Pole Attachment Status

- To date, APB has completed fielding on 17,150 poles
- 7,923 poles are currently pending pole owner review
- 1,359 poles have received Notice to Proceed (NTP)
- Oldest ticket pending for 191 days; average ticket pending 93 days
- APB and utility partners ramping make ready cadence to ~4,500 poles/month

CLEAR FILTER

TIME OUTSTANDING

Time Outstanding Outliers

SUBMITTED

95 Days

ACCEPTED

93 Days

MRC COMPLETE

93 Days

APPLICATIONS

367

POLES

7923

APPLICATIONS

367

POLES

7923

APPLICATIONS

81

POLES

1359

ACCEPTED NTP

Multiple select... All

COUNTY	PART	Ticket Number	Owner	Outstanding Submitted	Outstanding Accepted	Outstanding NTP	Disposition	Pole Count
VA-AUGS	VA-AUGS-1 31	5547125	DOM	191	191	0	2. ACCEPTED	36
VA-AUGS	VA-AUGS-1 6	5585382	DOM	163	163	0	2. ACCEPTED	24
VA-AUGS	VA-AUGS-1 8	5586774	DOM	163	163	0	2. ACCEPTED	22
VA-AUGS	VA-AUGS-1 22	5586874	DOM	163	163	0	2. ACCEPTED	25
VA-AUGS	VA-AUGS-1 10	5587401	DOM	163	163	0	2. ACCEPTED	17
VA-AUGS	VA-AUGS-1 11	5589395	DOM	162	162	0	2. ACCEPTED	25
VA-AUGS	VA-AUGS-1 14	5589855	DOM	161	161	0	2. ACCEPTED	28
VA-AUGS	VA-AUGS-1 15	5592019	DOM	160	160	0	2. ACCEPTED	31
VA-AUGS	VA-AUGS-1 17	5592237	DOM	160	160	0	2. ACCEPTED	36
VA-AUGS	VA-AUGS-1 2	5592434	DOM	159	159	0	2. ACCEPTED	31
VA-AUGS	VA-AUGS-1 56	5589013	DOM	162	157	0	2. ACCEPTED	23
Total				78	76	17		9282

WALL COMMENTS

OWNER: All

DISPOSITION: All

PRIORITY: All

OUTSTANDING ACCEPTED:

PROJECT | COUNTY: Valley

FSA: All

PART: All

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2024Q1 Regional Update - Pole Attachment Status

- To date, APB has completed fielding on ~34,000 poles
- 10,617 poles are currently pending pole owner review
- 2623 poles have received Notice to Proceed (NTP)
- Oldest ticket pending for 251 days; average ticket pending 125 days
- APB and utility partners ramping make ready cadence to ~4,500 poles/month

CLEAR FILTER

TIME OUTSTANDING

Time Outstanding Outliers

OWNER
▲ DOM
▲ SVEC

SUBMITTED

126 Days

ACCEPTED

125 Days

MRC COMPLETE

118 Days

APPLICATIONS

481

POLES

10617

APPLICATIONS

481

POLES

10617

APPLICATIONS

144

POLES

2623

COUNTY	PART	Ticket Number	Owner	Outstanding Submitted	Outstanding Accepted	Outstanding NTP	Disposition	Pole Count
VA-AUGS	VA-AUGS-1 6	5585382	DOM	251	251	0	2. ACCEPTED	24
VA-AUGS	VA-AUGS-1 8	5586774	DOM	251	251	0	2. ACCEPTED	22
VA-AUGS	VA-AUGS-1 22	5586874	DOM	251	251	0	2. ACCEPTED	25
VA-AUGS	VA-AUGS-1 11	5589395	DOM	250	250	0	2. ACCEPTED	25
VA-AUGS	VA-AUGS-1 15	5592019	DOM	248	248	0	2. ACCEPTED	31
VA-AUGS	VA-AUGS-1 17	5592237	DOM	248	248	0	2. ACCEPTED	36
VA-AUGS	VA-AUGS-1 2	5592434	DOM	247	247	0	2. ACCEPTED	31
VA-AUGS	VA-AUGS-1 56	5589013	DOM	250	245	0	2. ACCEPTED	23
VA-AUGS	VA-AUGS-1 37	5592523	DOM	247	245	0	2. ACCEPTED	28
VA-AUGS	VA-AUGS-1 13	5557552	DOM	243	243	0	2. ACCEPTED	31
VA-AUGS	VA-AUGS-1 23	5597934	DOM	243	243	0	2. ACCEPTED	24
Total				97	96	27		13240

ACCEPTED: All | NTP: All

OUTSTANDING ACCEPTED: 0 / 388

OWNER: All | DISPOSITION: All | PRIORITY: All

PROJECT | COUNTY: Valley | FSA: All | PART: All

Pole fielding count and NTPs doubled since Q4 update; Accepted pole applications up by 33%

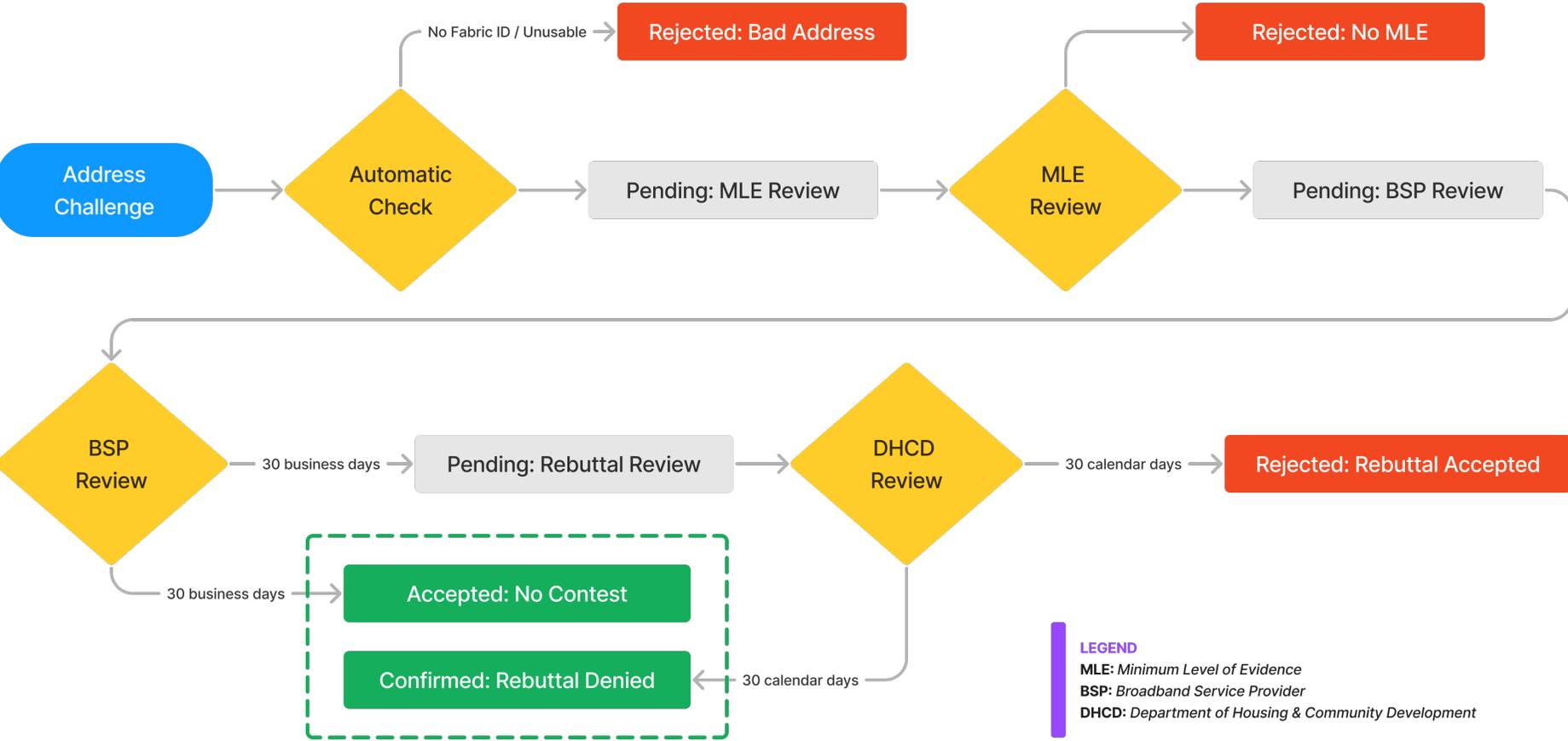
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Overview of Virginia's Implementation of BEAD (Infrastructure Act)

- Virginia's Office of Broadband at DHCD will administer \$1.48B of federal Infrastructure Act funding through program similar to VATI with key differences
 - **Final program guidelines are pending review & approval by NTIA**; however, Virginia is first state to submit all proposal documents
 - VA allocated sufficient funding available for high proportion of FTTH deployment to remaining unserved & underserved locations
 - Only available to "Broadband Serviceable Location" as of 6/15/2023
- Challenge process occurs *prior* to the BEAD application period
 - <https://broadband-challenge-portal.dhcd.virginia.gov/>
 - 30-day submittal window closed on Nov 30th
 - *APB submitted 100,000 challenges (56% of accepted challenges statewide)*
 - Maximize funding to truly unserved locations regardless of APB desirability
 - Challenged ISP have opportunity to rebut; DHCD to finalize ~1Q2024
- DHCD to receive letters of intent for BEAD within 60 days of challenge process completion *and* approval of its BEAD proposal by NTIA before application window:
 - <https://www.dhcd.virginia.gov/sites/default/files/Docx/vati/bead-ipv2-postpubliccomment-submittedtontia-unapproved.pdf>

BEAD Challenge Process Overview

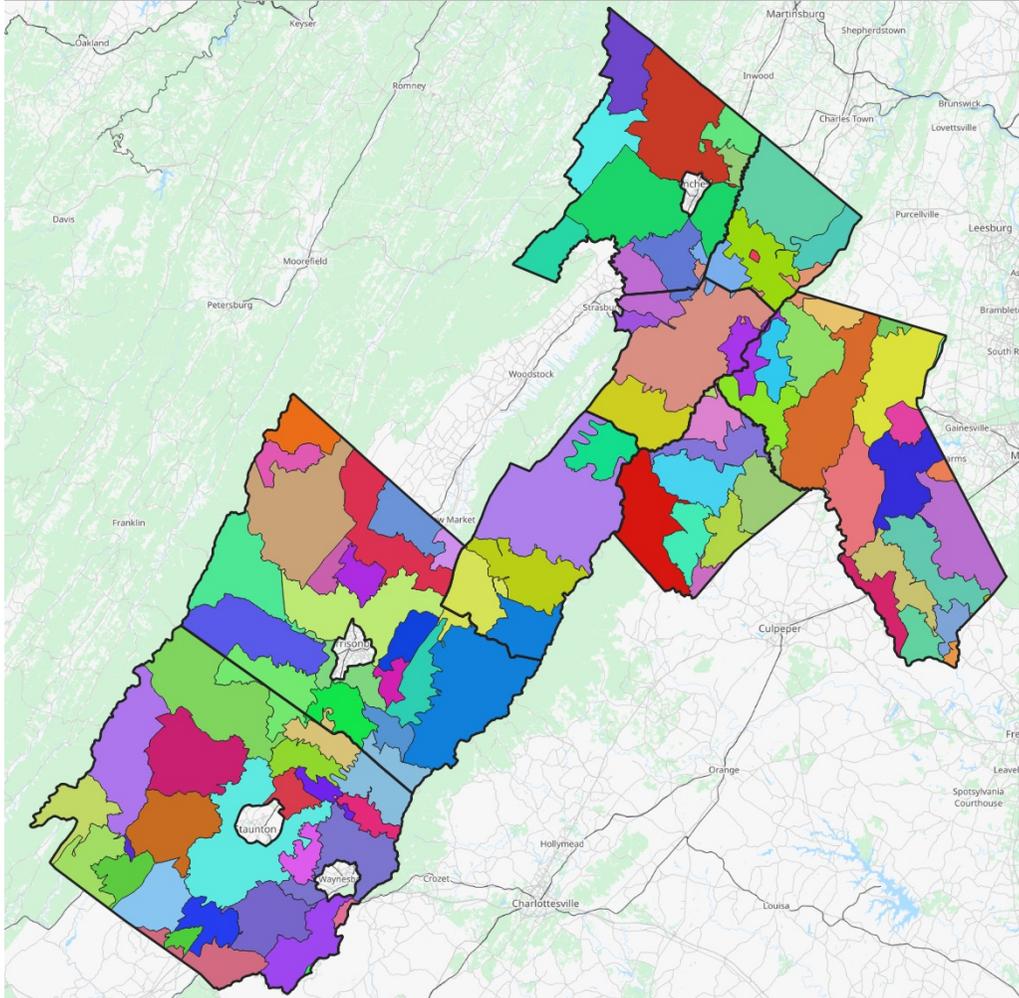


Overview of Virginia's Implementation of BEAD (Infrastructure Act)

- BEAD applications must be submitted to served 95% of unserved and underserved locations (including community anchor institutions) within a specific Zip Code Tabulation Area (ZCTA)
 - Reduces the number of unincluded locations and predefines BEAD project areas by existing geographic boundary (as opposed to allowing providers to draw their own cherry-picked project areas)
- Providers have 90 days from Letter of Intent period to submit full BEAD application(s) for DHCD evaluation
 - Remaining <5% of locations will require direct engagement by DHCD and likely provider(s)
- Proposed scoring criteria in addition to baseline requirements in BEAD Notice of Funding Opportunity (the NOFO)
 - 45%: BEAD funding per project location
 - 20%: Gigabit affordability relative to FCC's Urban Rate Survey
 - 10.2%: Fair Labor Practices of Provider According to NOFO
 - 5%: Speed to Deployment Within 3 Years of Award
 - 9.9%: Universality, Ranging from 95%-100% Locations Included
 - 9.9%: Locality Letter of Support

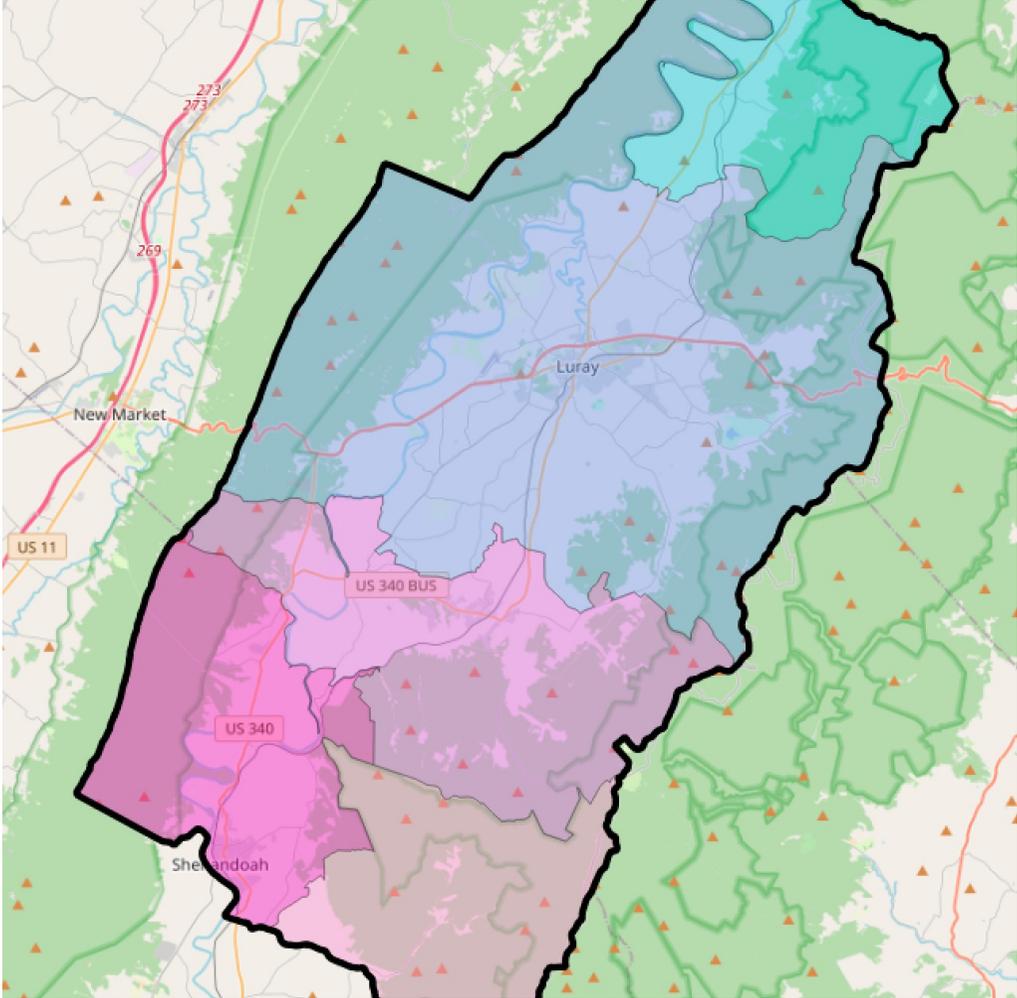
ZCTAs in the NSVRC Project

- 141 ZCTAs in the eight counties of the NSVRC project.



ZCTAs in Page County

- 5 ZCTAs in Page County



BEAD Key Observations

- BEAD is a tool to supplement the VATI FY22 project
- APB's goals for BEAD
 - Aggressively pursue BEAD for missed/newly eligible areas in the NSVRC
 - Wherever possible, construct VATI and BEAD awarded areas simultaneously so there is no on-the-ground difference for residents
 - Ensure localities are informed and prepared during the challenge period
 - Obtain local support for all BEAD applications
- Estimated Timeline:
 - Q4 2023 – Challenge process commences
 - Late Q1 2024 – Challenge process ends;
 - Late Q2 2024 – Letter of intent submitted; Full applications submitted
 - Q3 2024 – Applications scored & Awards announced; DHCD conducts ISP engagement for remaining locations
- **VATI project remains #1 priority**
- **For Page County – VATI FY24 would be accelerated as much as possible upon award**

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Comments (optional)	
<input type="text"/>	



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