

# City of Alexandria, Virginia

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## MEMORANDUM

**DATE:** MAY 1, 2020

**TO:** CHAIR AND MEMBERS OF THE  
BOARD OF ARCHITECTURAL REVIEW

**FROM:** HISTORIC PRESERVATION STAFF

**SUBJECT:** SMALL CELL WIRELESS FACILITY UPDATE MATERIALS

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At the electronic BAR hearing on April 22, 2020, the Board discussed proposed amendments to the *Small Cell Wireless Facilities on Utility Poles in the Right-Of-Way* (2019) but ultimately requested that all small cell facilities in the historic districts be docketed at a BAR hearing. The Board also requested background information on previously approved small cell facilities, either at hearing or administratively, including their location and appearance.

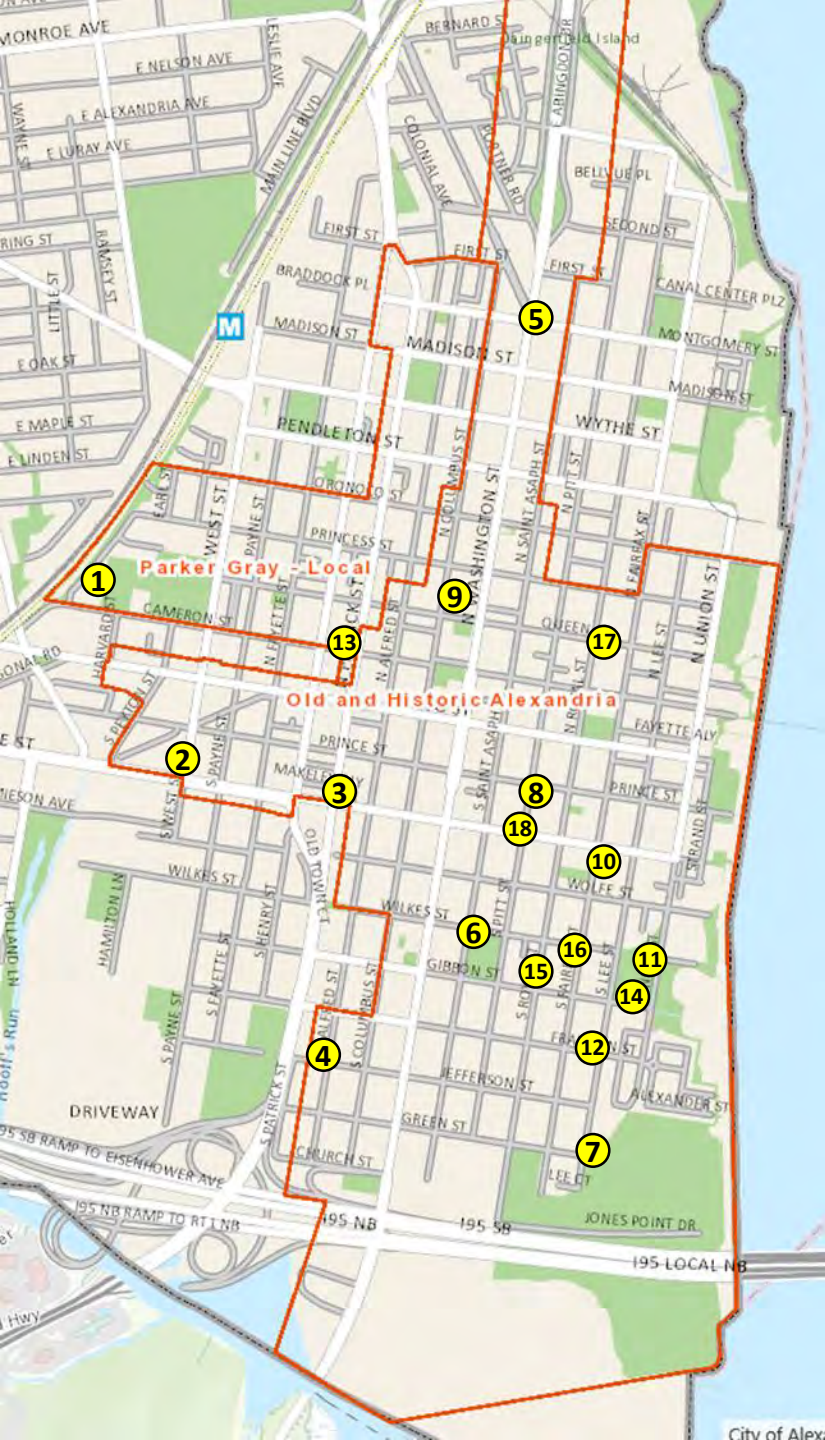
In response, staff has compiled the attached Small Cell Approvals document which includes a map showing where the small cells have been approved as of April 30th, followed by photo simulations provided by the applicants showing what the new facilities will generally look like. Twelve facilities were approved by either staff or the BAR, while six were approved automatically due to the expiration of the 60 day shot-clock, a time limit established under Federal and State law for small cell facilities located in the public right-of-way. The recent Covid-19 pandemic has led to the cancellation of several public hearings which resulted in these automatic approvals.

Staff is also attaching a copy of a Dominion Virginia Energy presentation to the wireless carriers showing utility pole conditions unsuitable for small cell facility co-location.

### **ATTACHMENTS**

- 1 – *Small Cell Approvals in the Historic Districts*
- 2 – *Dominion Virginia Energy presentation to carriers*

# Approved Small Cell Facilities in the Historic Districts



## BAR or BAR Administrative Approvals

Located near the following parcels

1. 211 Buchanan Street (4G)
2. 238 South West Street (4G)
3. 921 Duke Street (4G)
4. 911 Jefferson Street (4G)
5. 610 Montgomery Street (4G)
6. 501 South St. Asaph Street (4G)
7. 202 Green Street (4G)
8. 200 South Pitt Street (4G)
9. 317 North Columbus Street (4G)
10. 300 South Fairfax Street (4G)
11. 421 South Union Street (4G/5G)
12. 617 South Lee Street (5G)

## Automatically approved due to expired shot clock

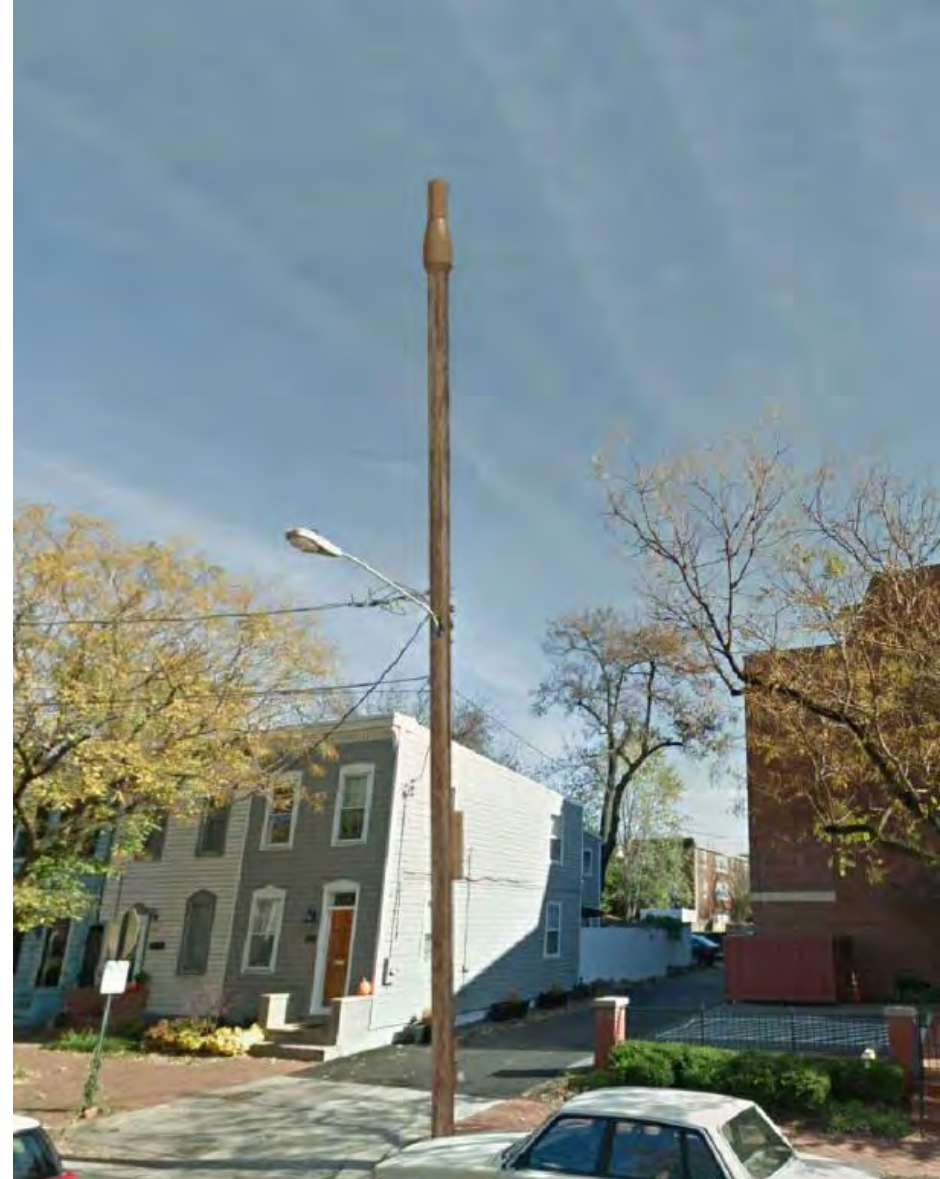
Located near the following parcels

13. 1001 Cameron Street (4G/5G)
14. 520 South Lee Street (5G)
15. 411 Gibbon Street (5G)
16. 500 South Fairfax Street (5G)
17. 325 Queen Street (4G/5G)
18. 501 Duke Street (5G)





1. Photo simulation near 211 Buchanan Street



2. Photo simulation near 238 South West Street

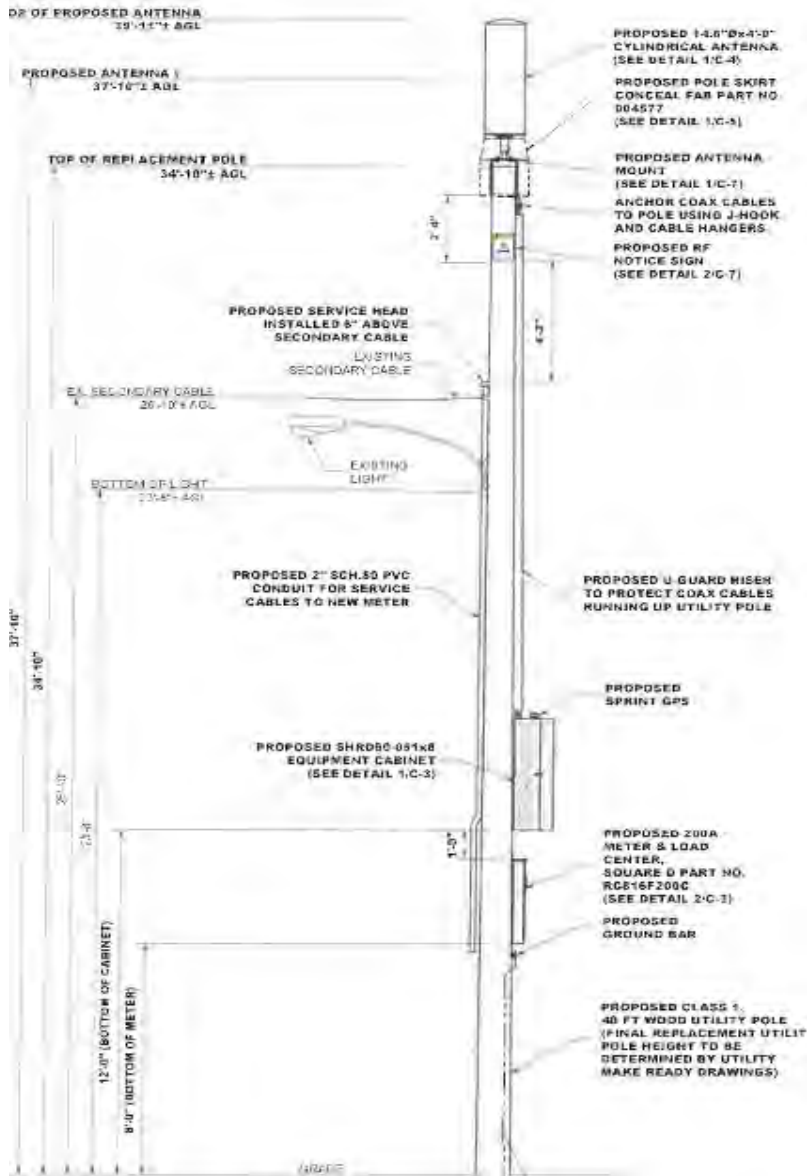




3. Photo simulation near 921 Duke Street



4. Photo Simulation near 911 Jefferson Street



5. Drawing near 610 Montgomery Street



6. Photo simulation near 501 S. St. Asaph Street





7. Photo simulation near 202 Green Street



8. Photo simulation near 200 South Pitt Street



OMNI ANTENNA & WITH  
40' WOOD POLE COLORED  
( = 44'-8")

ENCLOSURE AT 15'-0"  
> MATCH

ENCLOSURE  
@ 8'-0"



9. Photo simulation near 317 S. Columbus Street

ANTENNA WITH  
TOP OF PROPOSED 35'  
POLE COLORED TO MATCH  
(44'-8").

ENCLOSURE AT 13'-0"  
POLE COLORED TO MATCH.

BREAKER & DISCONNECT  
LINE AND 100 AMP METER  
POLE COLORED TO MATCH (METER  
POLE ON STREET SIDE).

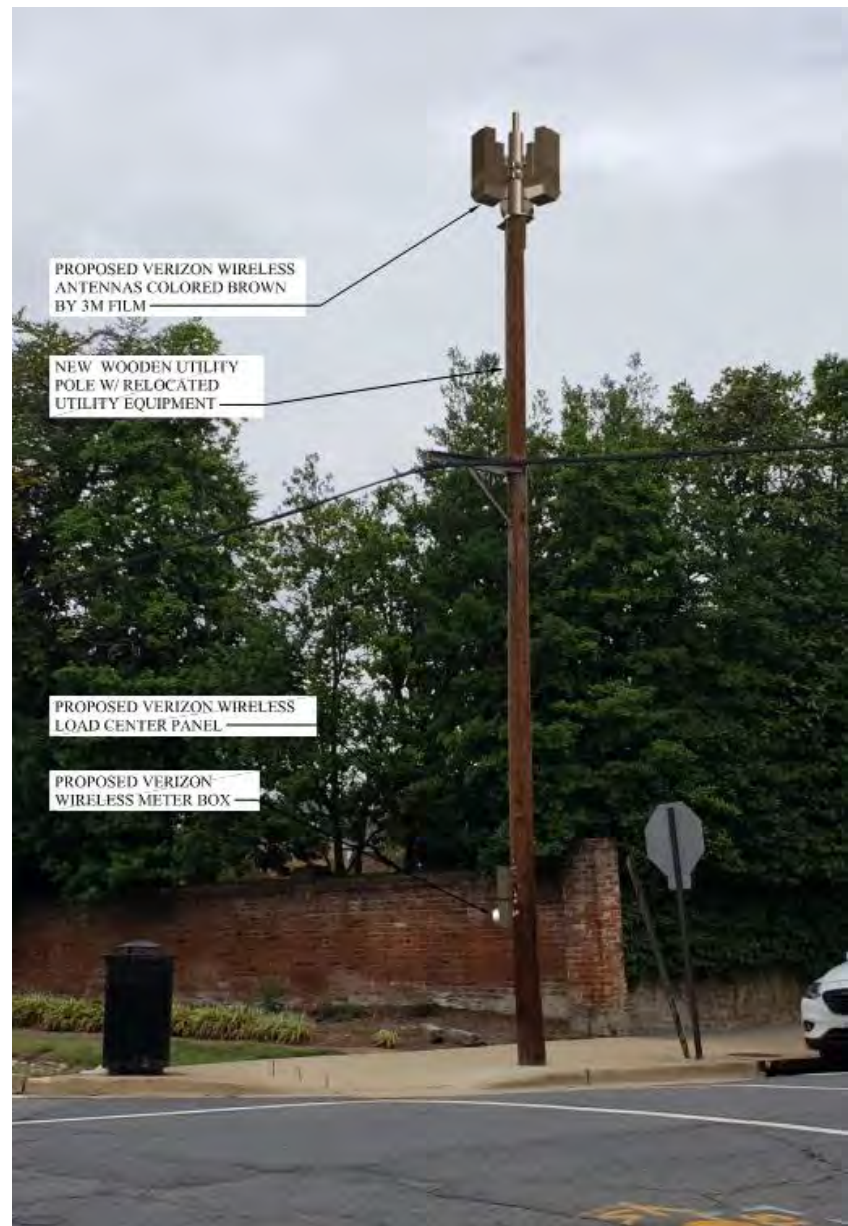


10. Photo simulation near 300 S. Fairfax Street

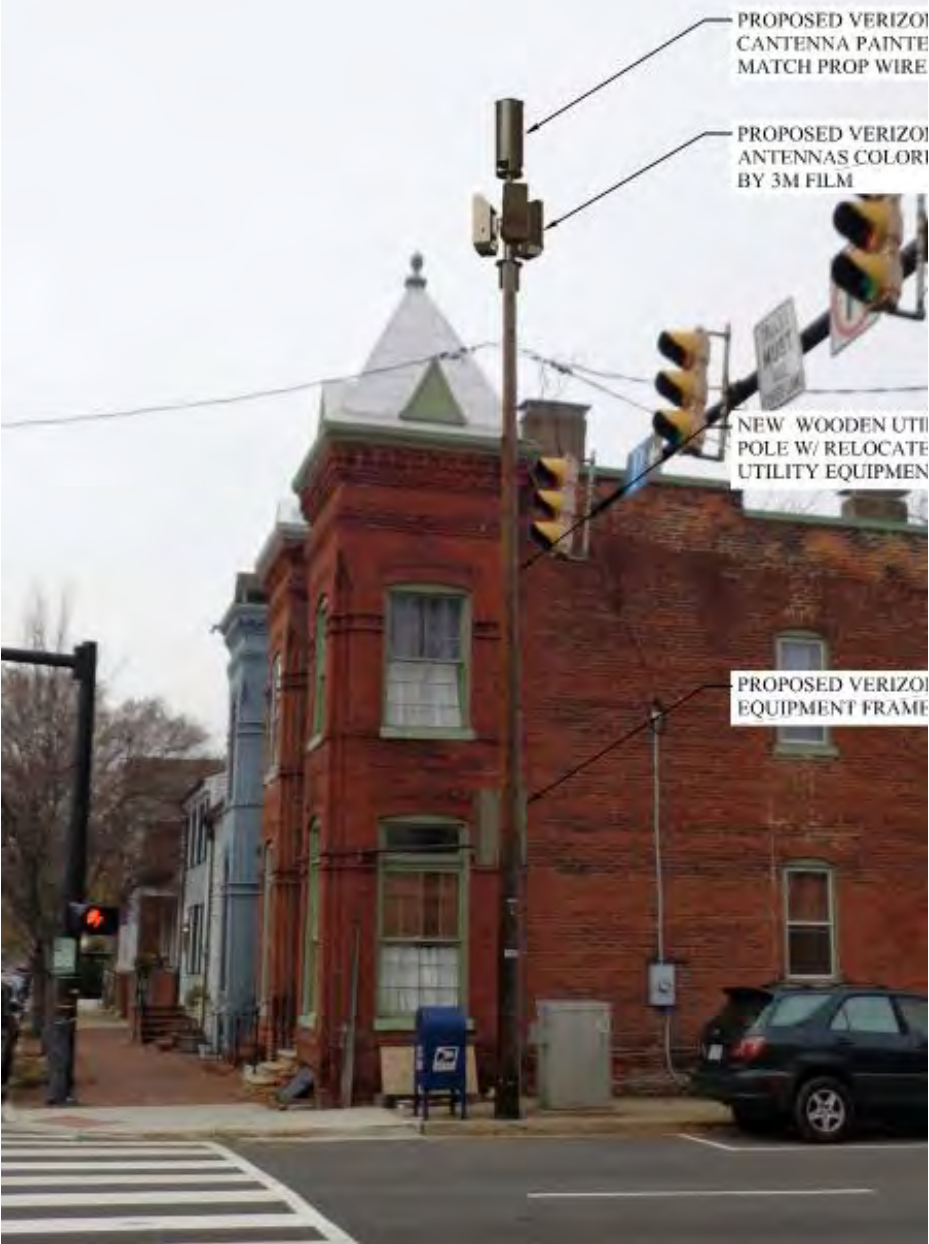




11. Photo simulation near 421 S. Union Street



12. Photo simulation near 617 South Lee Street

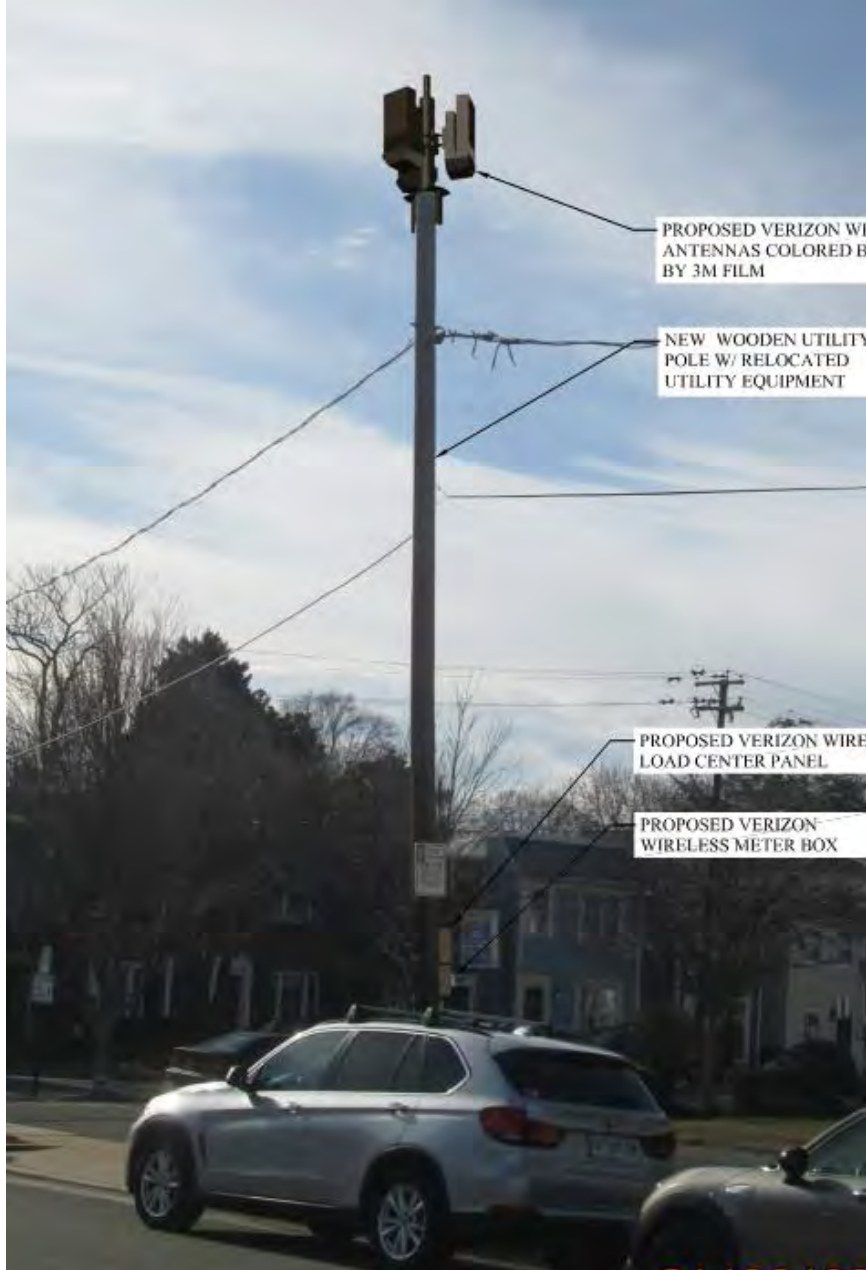


13. Photo simulation near 1001 Cameron Street



14. Photo simulation near 500 South Lee Street



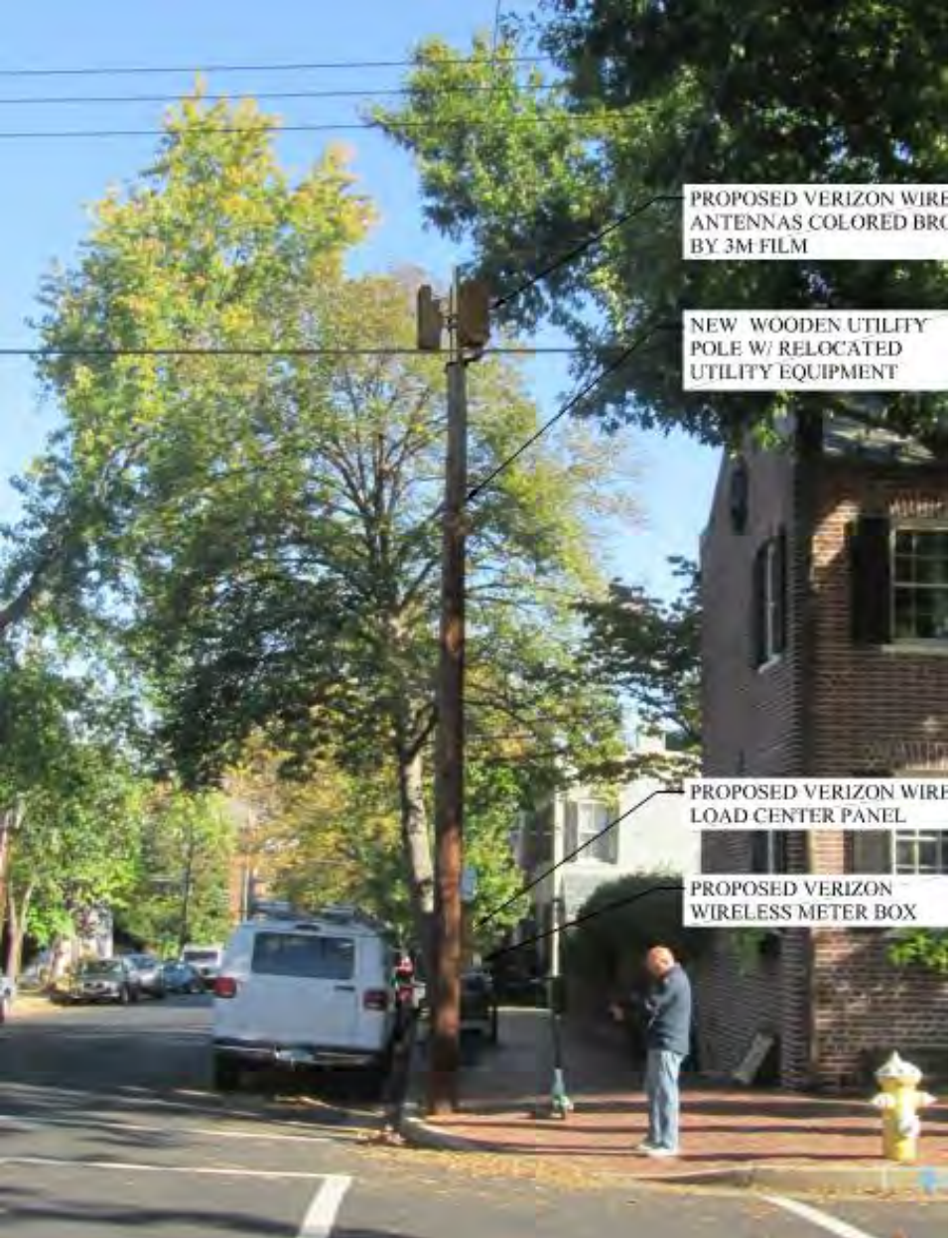


15. Photo simulation near 411 Wilkes Street



16. Photo simulation near 500 S. Fairfax Street





17. Photo simulation near 325 Queen Street



18. Photo simulation near 501 Duke Street



# Dominion Energy Virginia

## Poles Unsuitable for Pole-Top Antennas\*

\*This guide is not all inclusive



## RECLOSERS





# CAPACITOR BANK



# SWITCHES



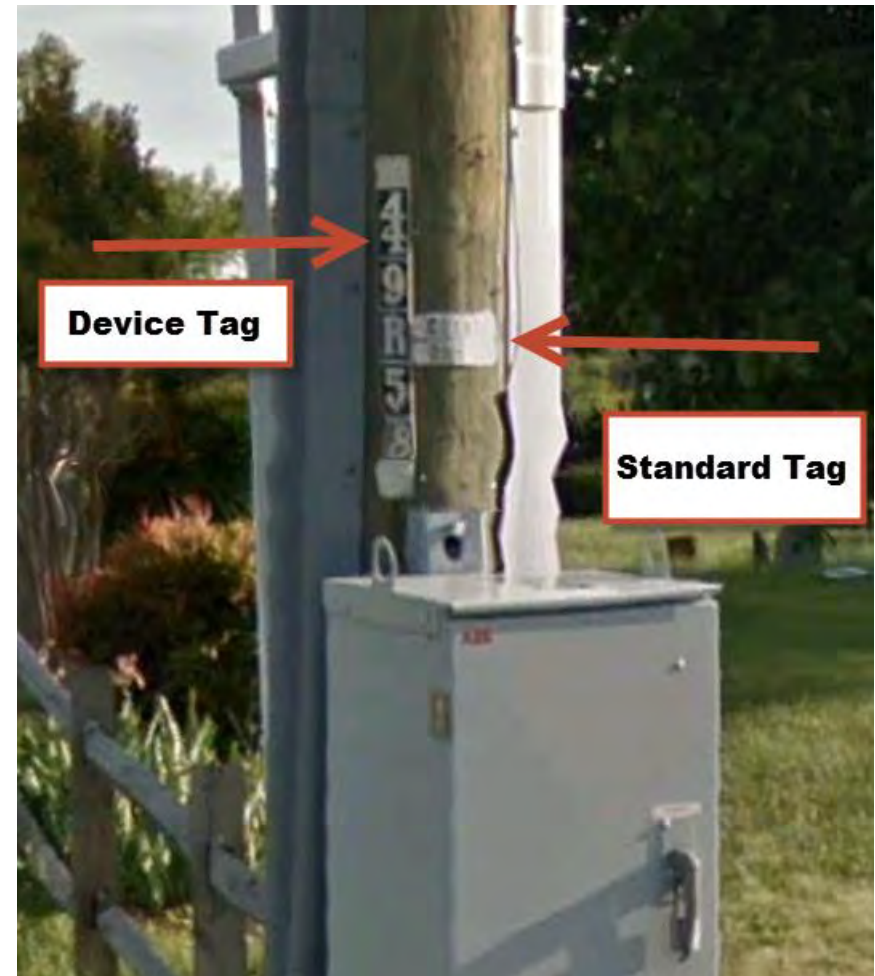


## DISCONNECTS



Open Point

All poles with reclosers, switches, disconnects etc. *should* have a special tag on the pole.



The device tag is:

4  
9  
R  
5  
8

Basically, if you see a black and silver vertical tag on the pole, it has a major device and would rule that candidate out.  
R= Recloser, S or T= Switch, D= Disconnect, X= Sectionalizer





## FUSES



NOTE: Cut-Out Fuses on Transformer Poles are OK

## PRIMARY RISER





## THREE-PHASE TRANSFORMER BANK



## STEP-DOWN TRANSFORMER



Note the fins on the sides



## BUCKARMS



## DOUBLE/MULTIPLE CIRCUITS





# AUTOMATED METER READING (AMR) DEVICES (One Antenna Per Pole)



Typically found on streetlight poles.  
Only the model shown above is currently in service.  
We have older models that can be scrapped.

## EXISTING POWER SUPPLY BOXES AND/OR METERS

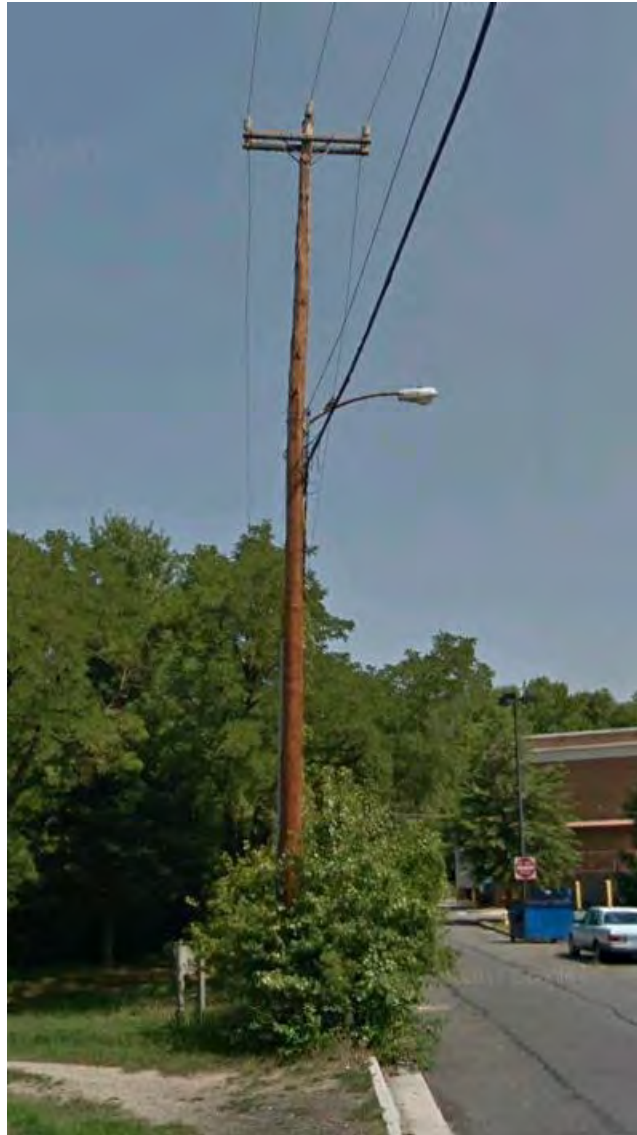




# PUSH BRACES

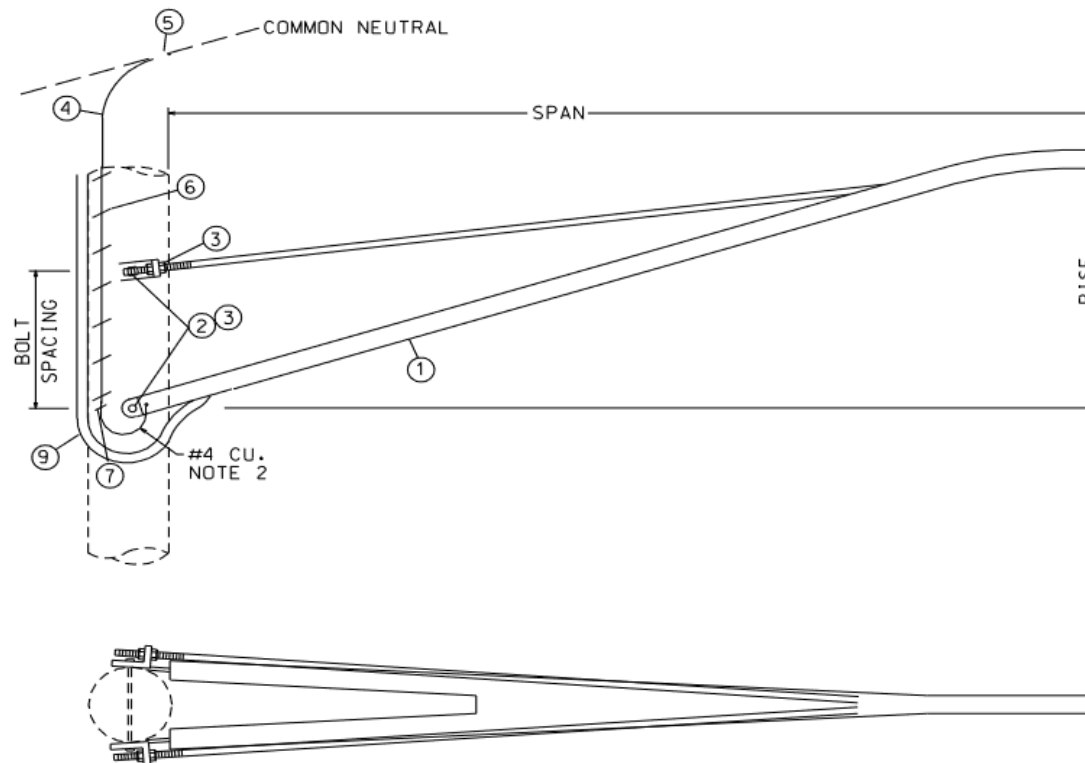


MAX HEIGHT OF REPLACEMENT NO GREATER THAN 65'



## A-FRAME AND DOUBLE-GUY STREETLIGHTS

A-FRAME BRACKET — OLD014



Double-Guy is similar to the A-frame drawing above. All streetlights 14ft and greater require guying, and these two brackets are a minimum of 14ft. These brackets wrap two sides of the pole, require guying on the back, and have the light on the front. Therefore all 4 quadrants of the pole are taken up.



## MORE THAN ONE RISER ON POLE

