

New Fort Belvoir Antenna Installations

9800 Belvoir Road
Fort Belvoir, Virginia

Approval of Preliminary and Final Site Development Plans

United States Department of War, Department of the Army

Project Summary



Commission Meeting Date: October 1, 2026

NCPC Review Authority: Review of Federal Projects in the District 40 U.S.C. § 8722(b)(1)

Applicant Request: Approval of Preliminary and Final Site Development Plans

Session: Consent Calendar

NCPC Review Officer: Michael Weil

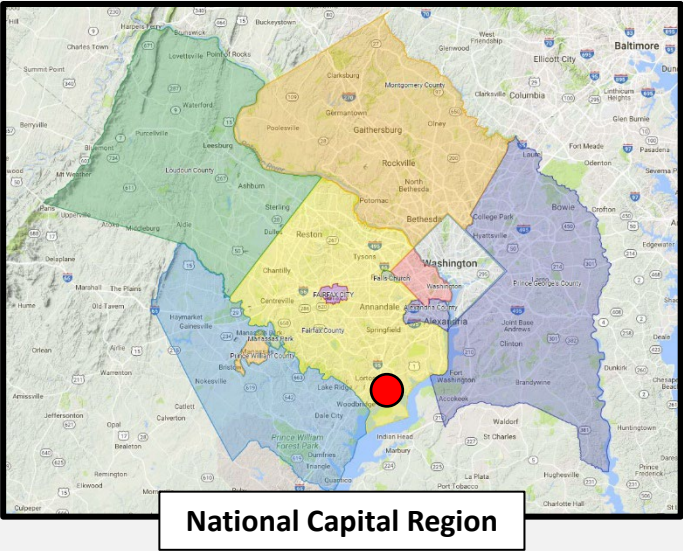
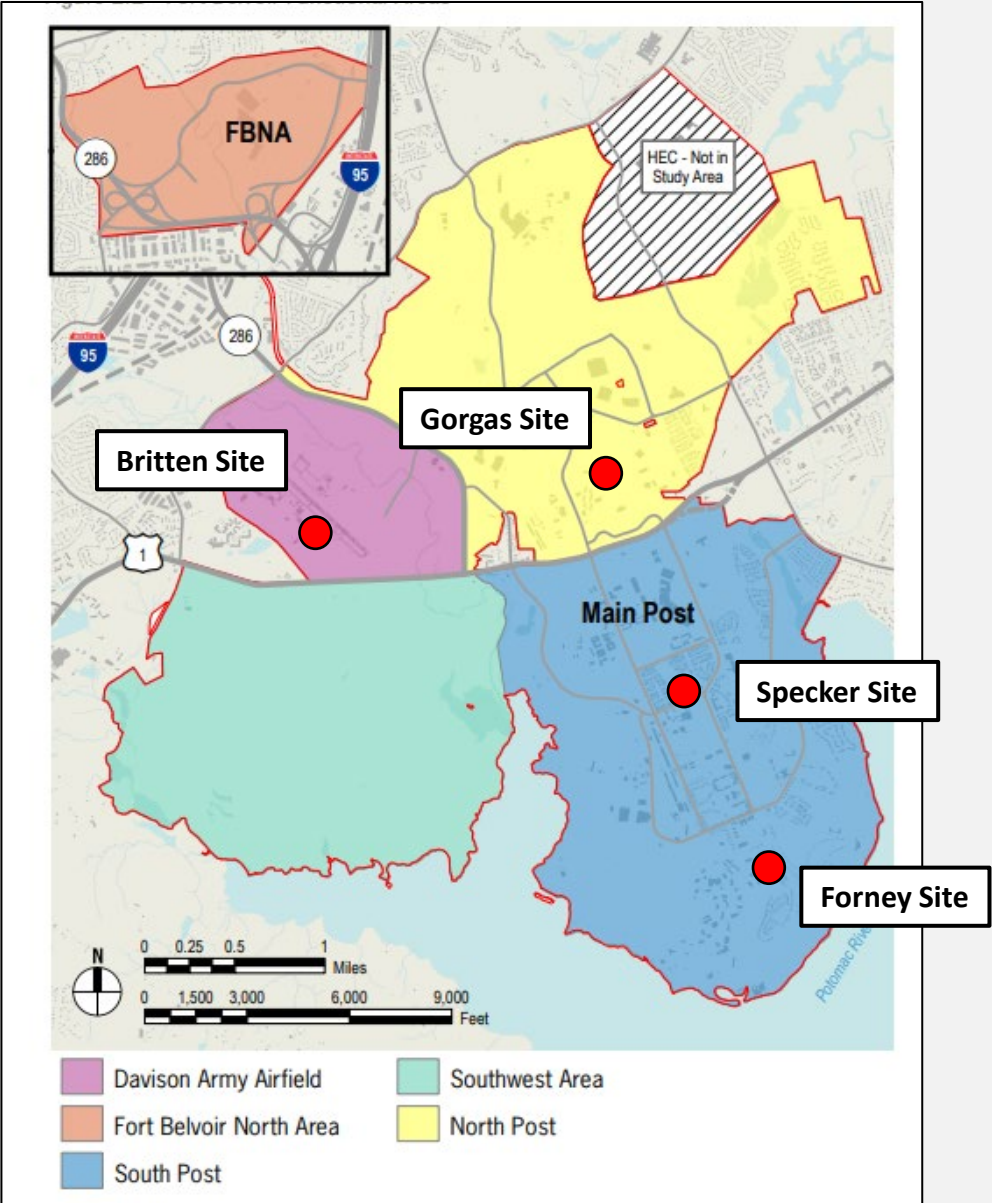
NCPC File Number: 8816

Project Summary:

The United States Department of the Army has submitted preliminary and final site development plans to develop four separate cellular antenna tower locations (identified as Forney, Gorgas, Specker, Britten) within Fort Belvoir. There are currently multiple cellular antennas on top of three existing water tanks, and the new tower locations will enable multiple Carriers to complete network upgrades, including 5G/C-Band upgrades, with additional antennas/sectors for improved 360-degree coverage within the base. The new locations would be more cost-effective than maintaining the current water tank locations since the new 5G/C equipment would require structural upgrades and regular water tank painting, which is costlier than establishing the proposed new sites. All existing antennas would be removed from the water tanks once the new sites become operational.

The **Forney site** would have a multi-tenant, **125-foot** steel monopole with a 5-foot lightning rod and associated ground equipment, within a 35-foot by 70-foot (2450 SF) rectangular fenced compound at the base of the tower. The **Specker site** would have a multi-tenant, **110-foot** steel monopole with a 5-foot lightning rod and associated ground equipment, within a 35-foot by 70-foot (2450 SF) rectangular fenced compound at the base of the tower. The **Gorgas site** would have a multi-tenant, **120-foot** steel monopole with a 5-foot lightning rod and associated ground equipment, within a 35-foot by 70-foot (2450 SF) rectangular fenced compound at the base of the tower. The **Britten site** would consist of a single-tenant, **50-foot** wood pole with all equipment housed on the pole and no ground equipment required. The ground-level equipment (Forney, Gorgas, Specker) will be approximately 7 feet tall, with an 8-foot-tall compound fence. Only the Gorgas installation would require tree removal (5) and the trees would be replaced at a 4:1 ratio per Fort Belvoir requirements.

Project Location



Forney Site





SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

EXISTING VIEW: LOCATION 1



Forney Site





SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 1



VIEW 3



VIEW 1



TOWER



VIEW 2



PROPOSED 125' MONOPOLE TOWER



Forney Site





SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

EXISTING VIEW: LOCATION 2



Forney Site





SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 2



PROPOSED 125' MONOPOLE TOWER

Forney Site





SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

EXISTING VIEW: LOCATION 3



Forney Site



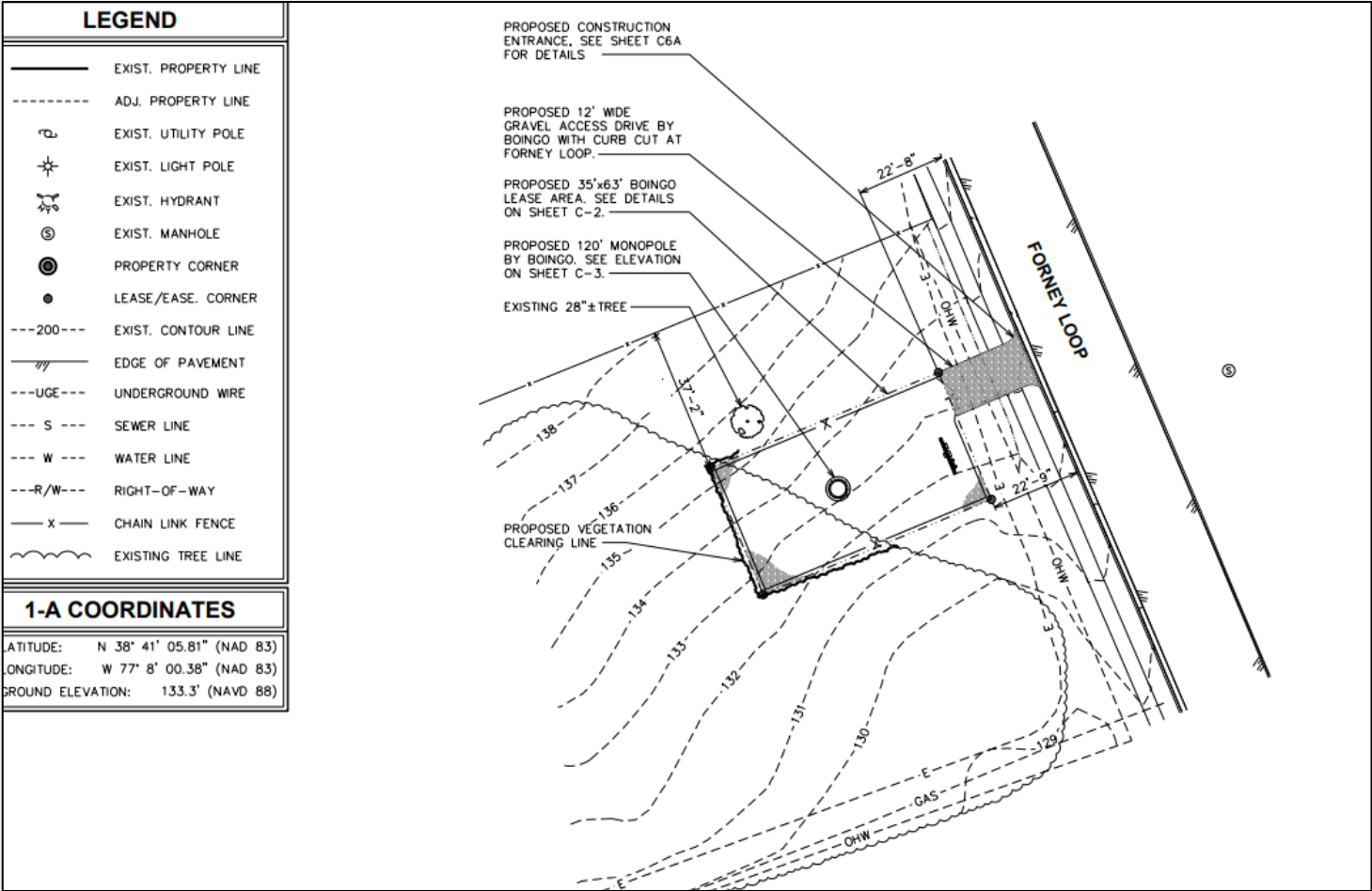


SITE #: FT BELVOIR - TWR-Z FORNEY
ADDRESS: 10030 FORNEY LOOP
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 3



Forney Site



11



125'-0"±
T/LIGHTNING ROD

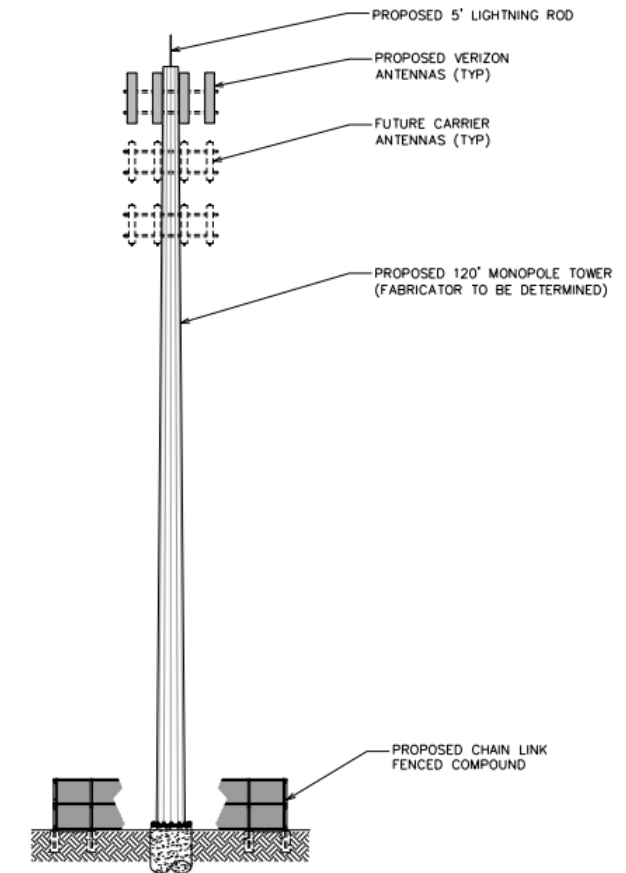
120'-0"±
T/TOWER

115'-0"±
C/FUTURE ANTENNAS

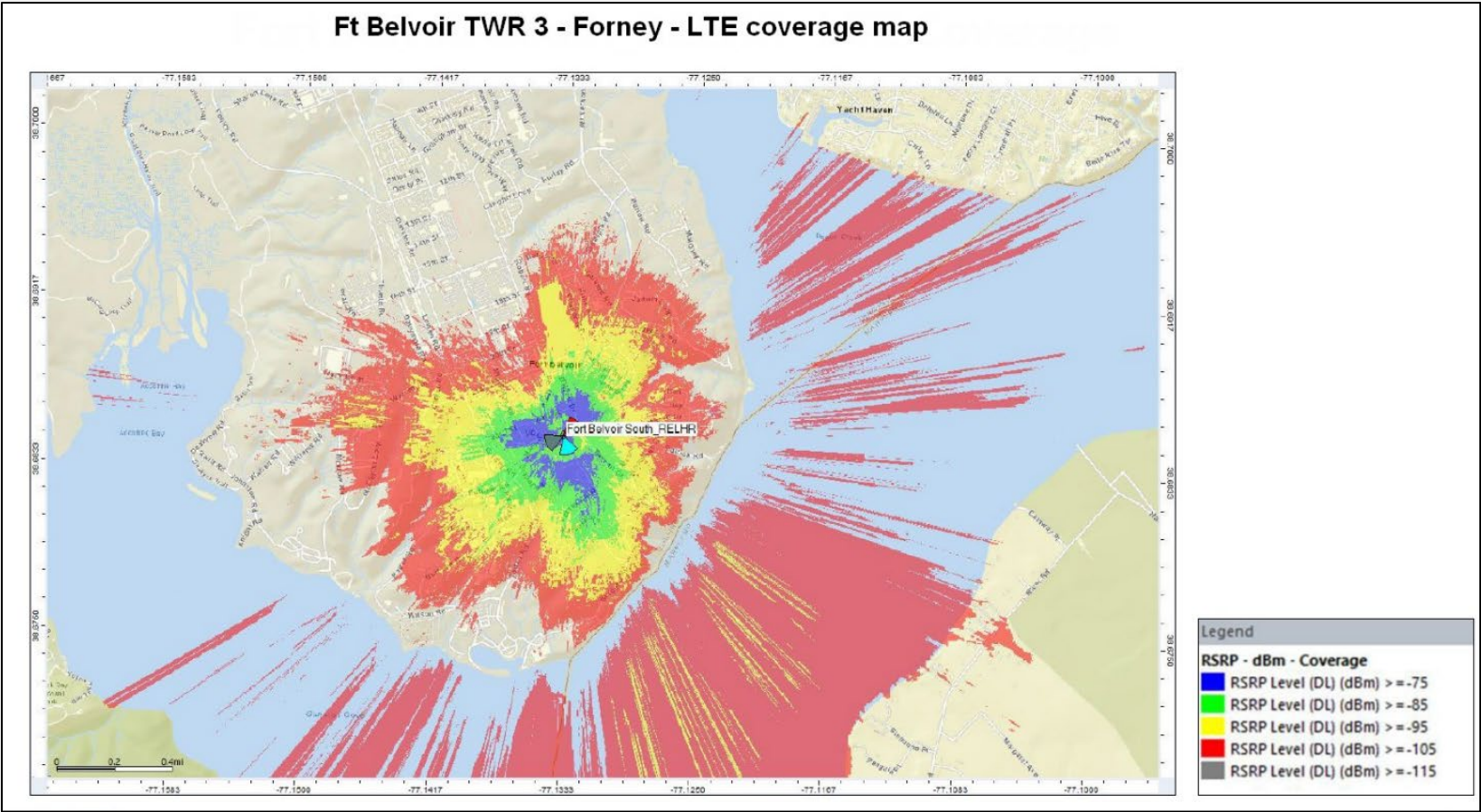
105'-0"±
C/FUTURE ANTENNAS

95'-0"±
C/FUTURE ANTENNAS

0'-0" (REF)
T/GRADE



Forney Site



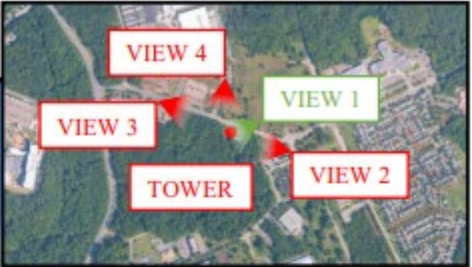
Gorgas Site



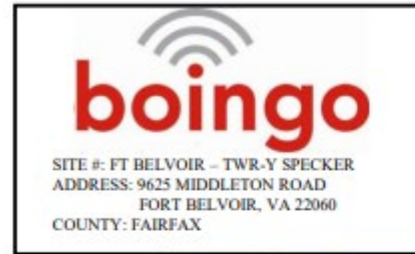


SITE #: FT BELVOIR – TWR-Y SPECKER
ADDRESS: 9625 MIDDLETON ROAD
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

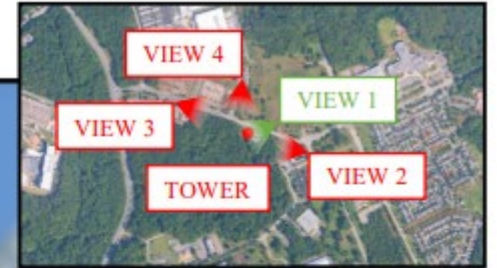
EXISTING VIEW: LOCATION 1



Gorgas Site



PROPOSED VIEW: LOCATION 1

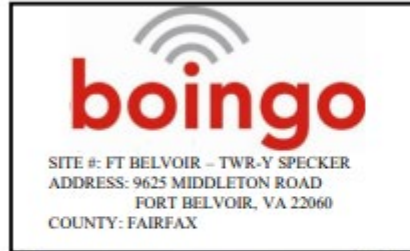


PROPOSED 135' MONOPOLE TOWER

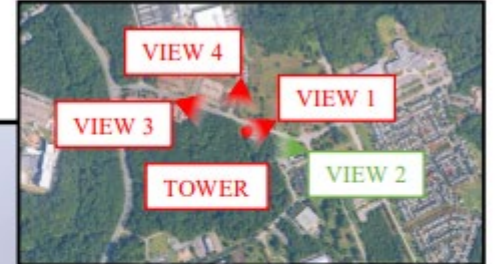
PROPOSED GROUND EQUIPMENT:

- 68'X33'X6' CHAIN LINK FENCED COMPOUND
- 12'WIDE GRAVEL ACCESS ROAD (NOT VISIBLE)

Gorgas Site



EXISTING VIEW: LOCATION 2



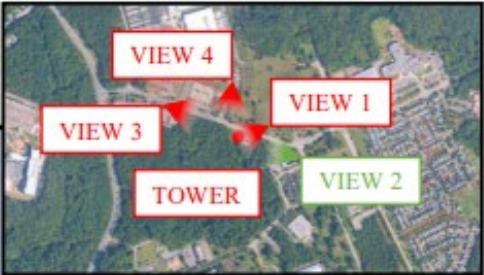
Gorgas Site





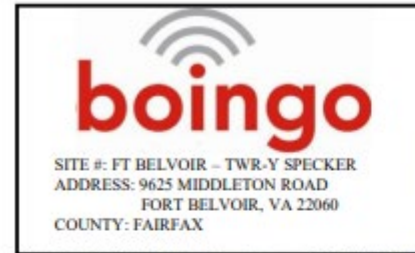
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COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 2

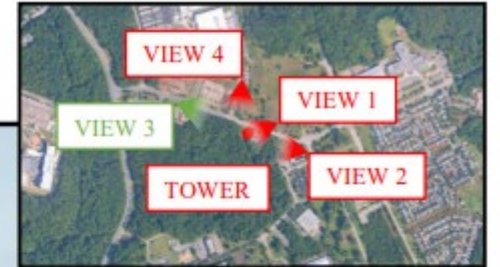
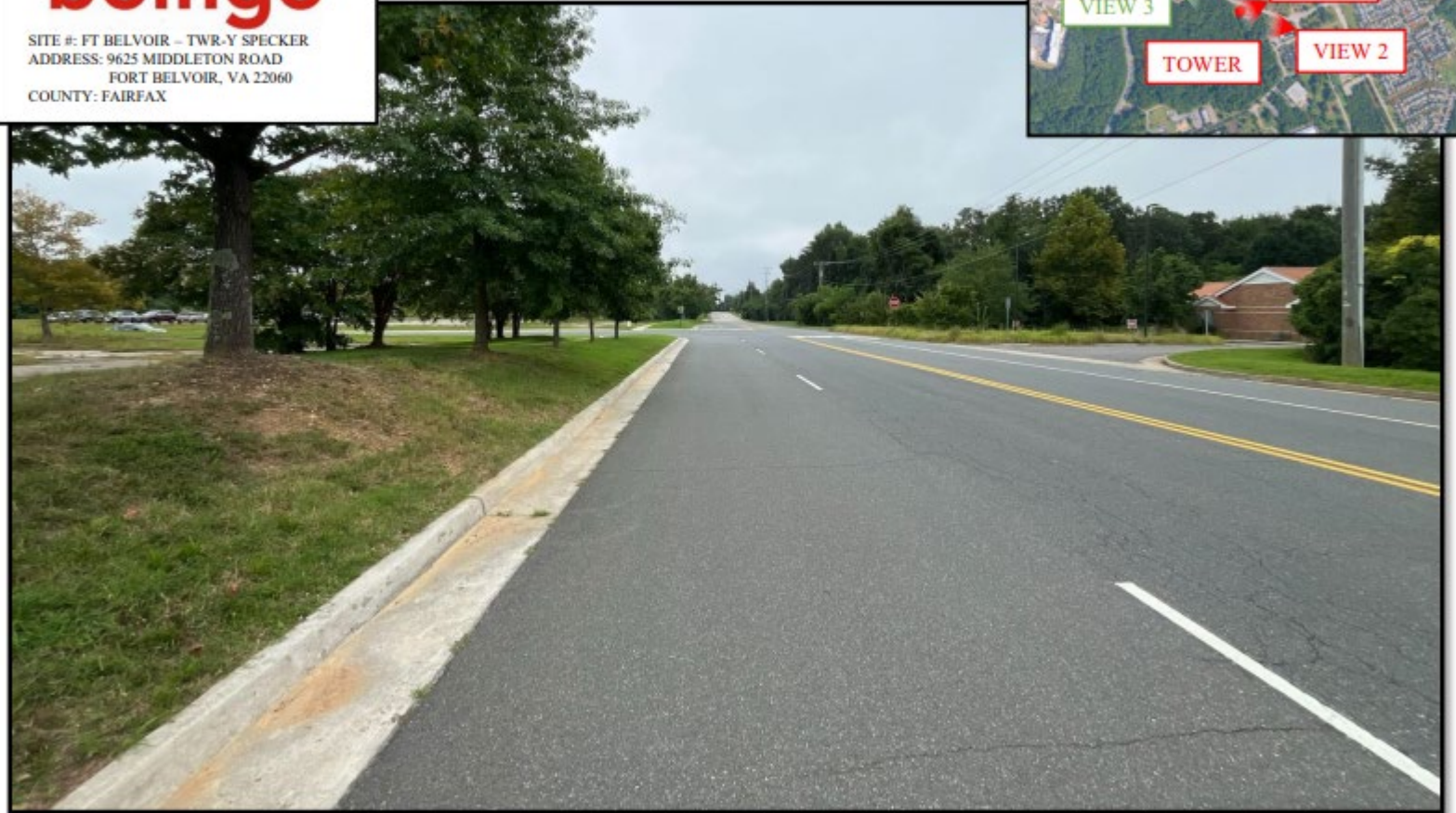


- PROPOSED GROUND EQUIPMENT:
- 68'X33'X6' CHAIN LINK FENCED COMPOUND (NOT VISIBLE)
 - 12" WIDE GRAVEL ACCESS ROAD (NOT VISIBLE)

Gorgas Site



EXISTING VIEW: LOCATION 3



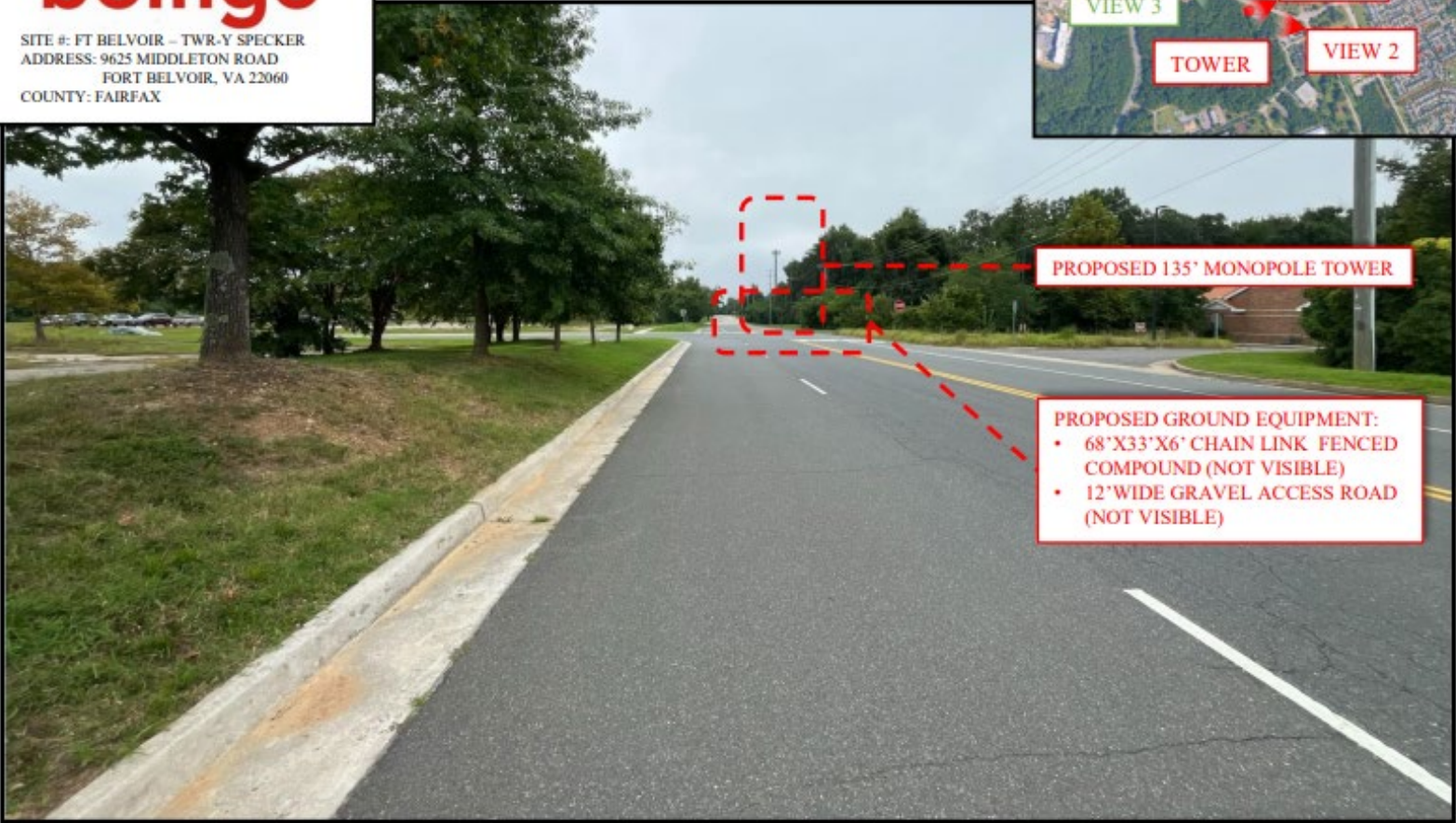
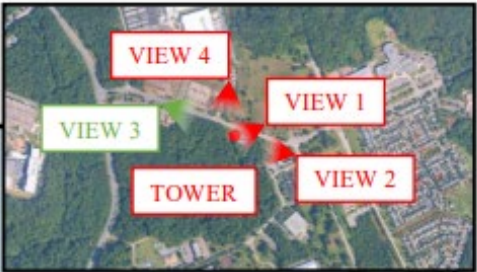
Gorgas Site





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ADDRESS: 9625 MIDDLETON ROAD
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

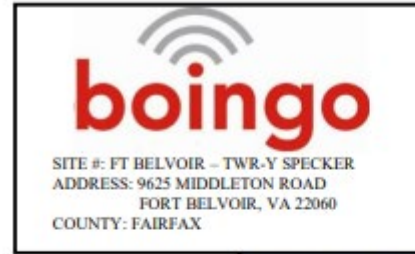
PROPOSED VIEW: LOCATION 3



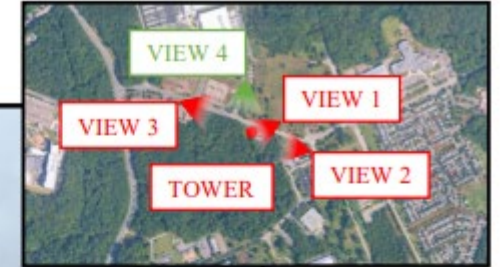
PROPOSED 135' MONOPOLE TOWER

- PROPOSED GROUND EQUIPMENT:
- 68'X33'X6' CHAIN LINK FENCED COMPOUND (NOT VISIBLE)
 - 12'WIDE GRAVEL ACCESS ROAD (NOT VISIBLE)

Gorgas Site



EXISTING VIEW: LOCATION 4



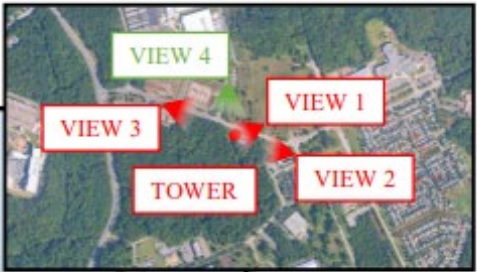
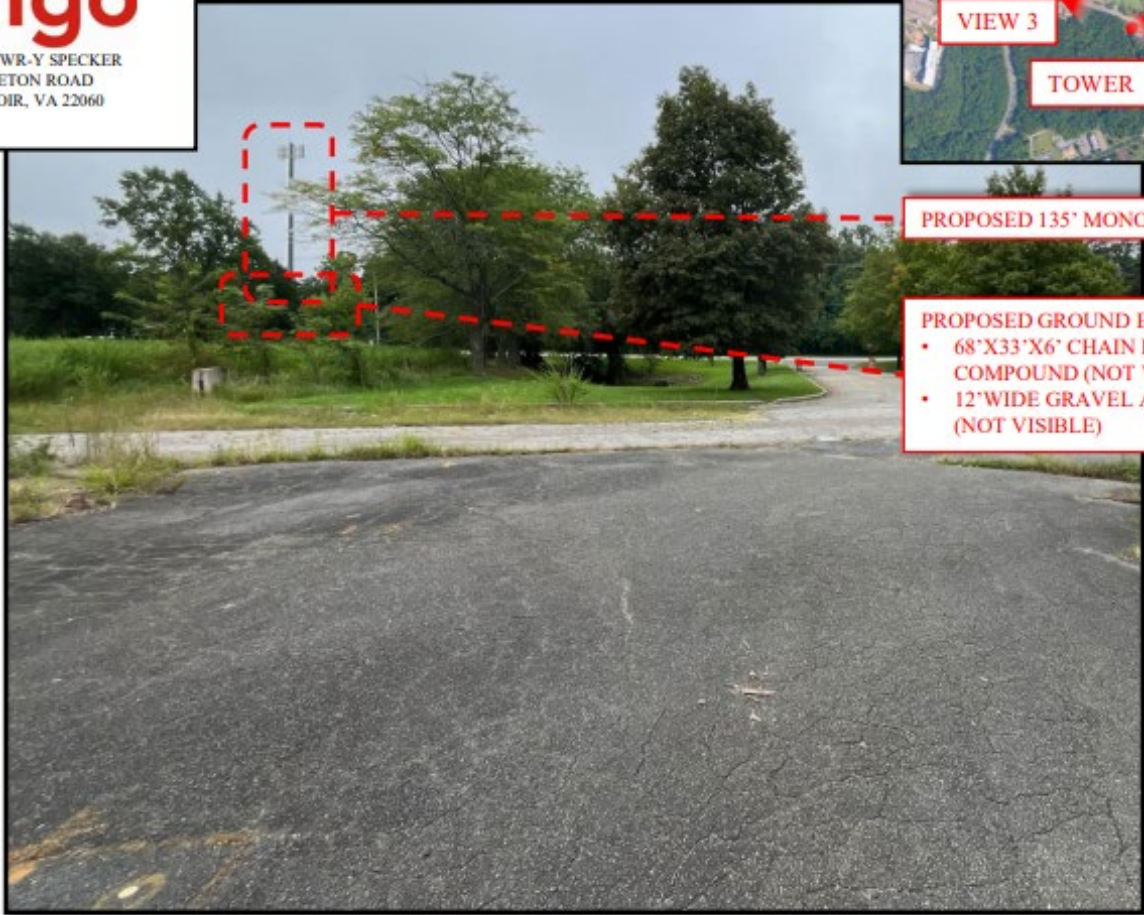
Gorgas Site





SITE #: FT BELVOIR – TWR-Y SPECKER
ADDRESS: 9625 MIDDLETON ROAD
FORT BELVOIR, VA 22060
COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 4



PROPOSED 135' MONOPOLE TOWER

- PROPOSED GROUND EQUIPMENT:
- 68'X33'X6' CHAIN LINK FENCED COMPOUND (NOT VISIBLE)
 - 12'WIDE GRAVEL ACCESS ROAD (NOT VISIBLE)

Gorgas Site



LEGEND

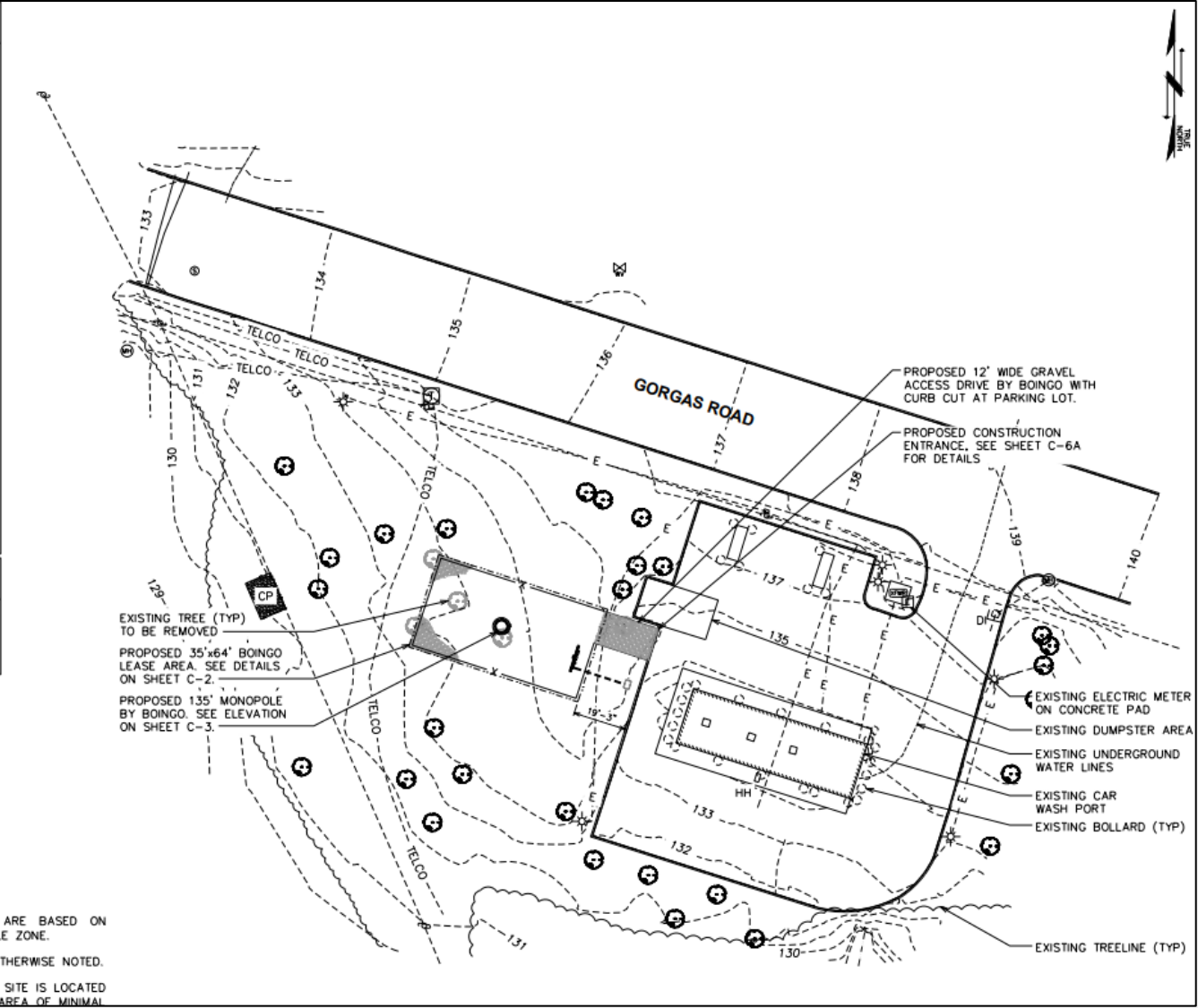
- EXIST. PROPERTY LINE
- ADJ. PROPERTY LINE
- EXIST. UTILITY POLE
- EXIST. LIGHT POLE
- EXIST. HYDRANT
- EXIST. MANHOLE
- PROPERTY CORNER
- LEASE/EASE. CORNER
- EXIST. CONTOUR LINE
- EDGE OF PAVEMENT
- UNDERGROUND WIRE
- SEWER LINE
- WATER LINE
- RIGHT-OF-WAY
- CHAIN LINK FENCE
- EXISTING TREE LINE

1-A COORDINATES

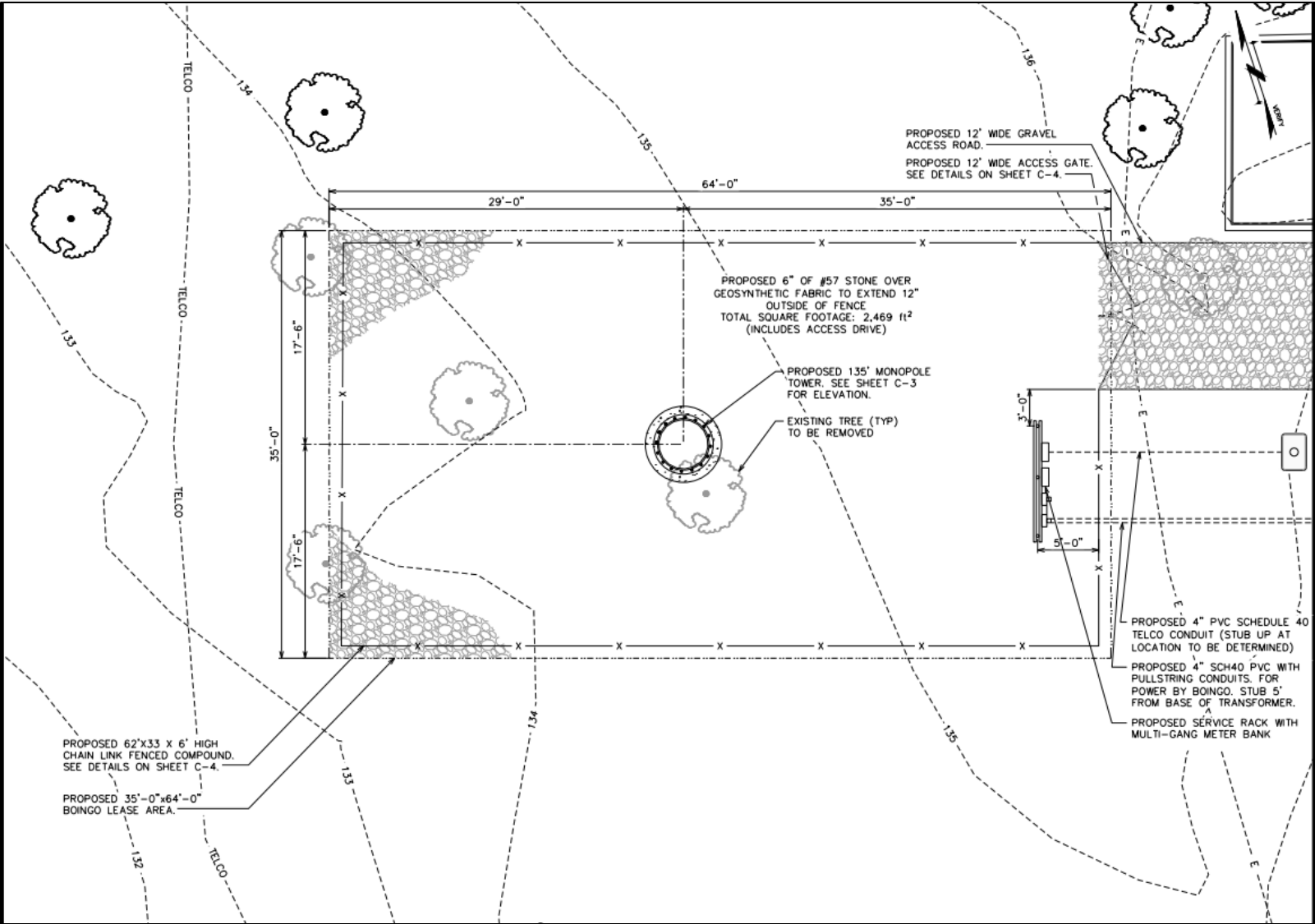
LATITUDE: N 38° 43' 12.51" (NAD '83)
LONGITUDE: W 77° 8' 53.50" (NAD '83)
GROUND ELEVATION: 135.4' (NAVD 88)

NOTES:

- BEARINGS SHOWN ON THIS LAYOUT ARE BASED ON MARYLAND GRID NORTH (NAD 83) SINGLE ZONE.
- ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
- PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD).



Gorgas Site

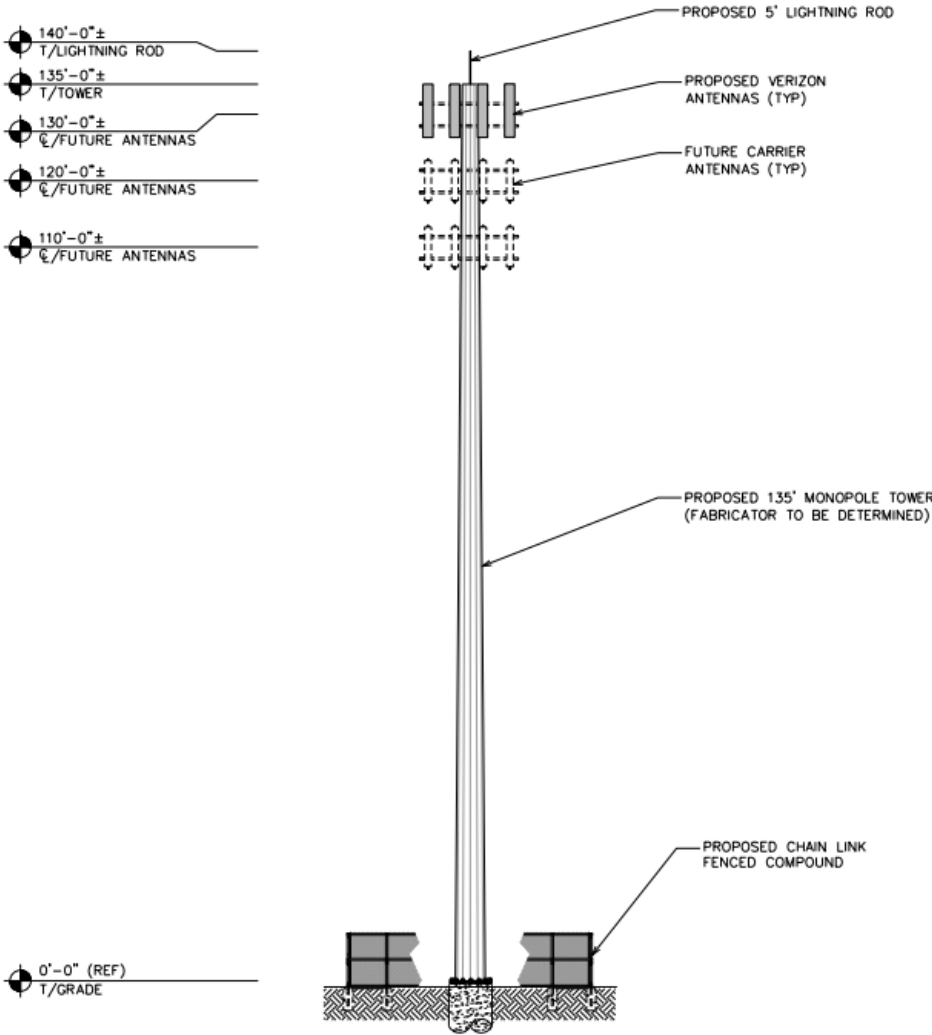


Gorgas Site

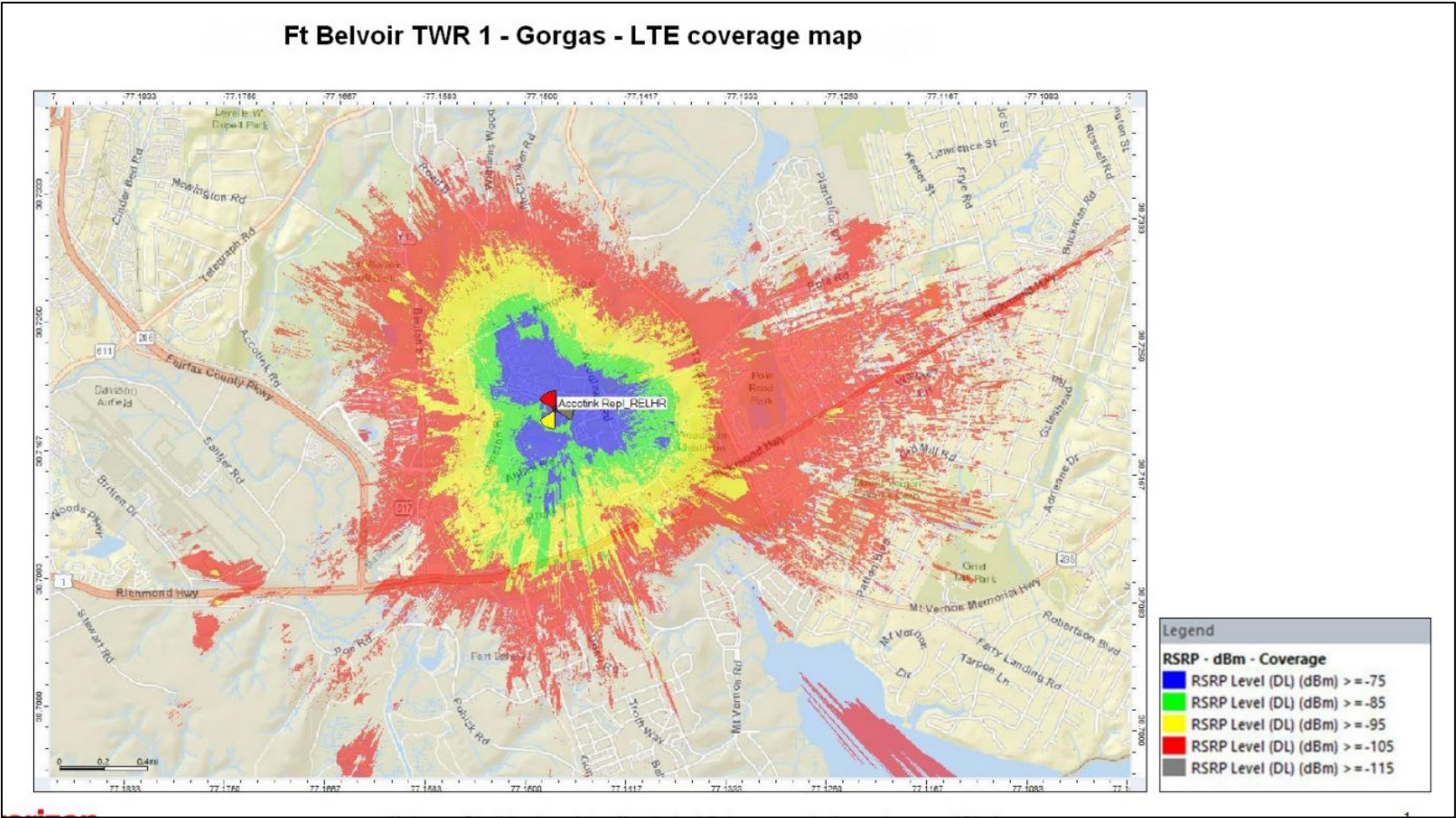


NOTES:

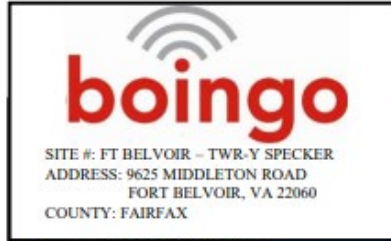
- 1. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE AGENCY.
- 2. TOWER ELEVATION SHOWN FOR REFERENCE ONLY. VERIFY ACTUAL TOWER DESIGN & LOADING WITH TOWER DRAWINGS FROM MANUFACTURER AND/OR PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTACT OWNER IN THE EVENT OF ANY DISCREPANCIES.



Gorgas Site



Specker Site



EXISTING VIEW: LOCATION 1



Specker Site



boingo

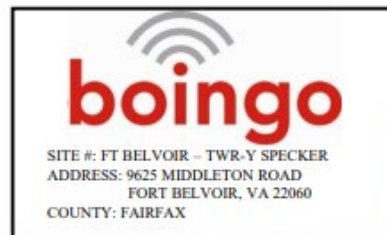
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COUNTY: FAIRFAX

PROPOSED VIEW: LOCATION 1

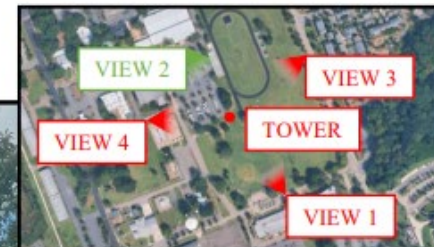
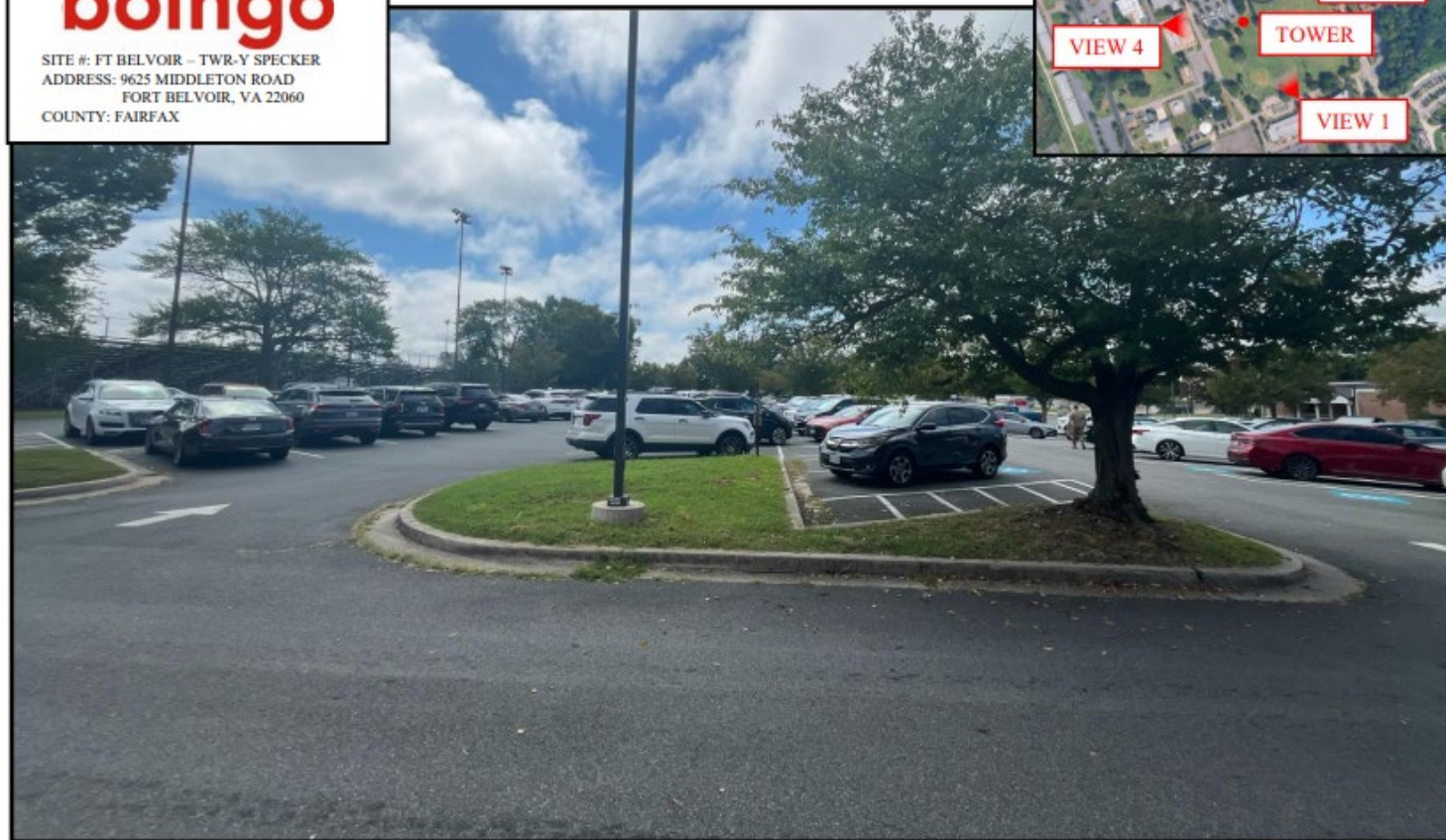


PROPOSED 115' MONOPOLE TOWER

Specker Site



EXISTING VIEW: LOCATION 2



Specker Site



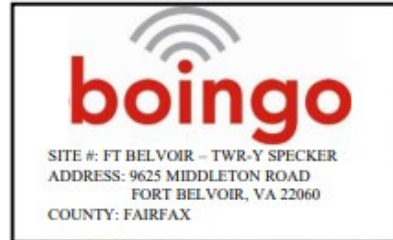
Specker Site



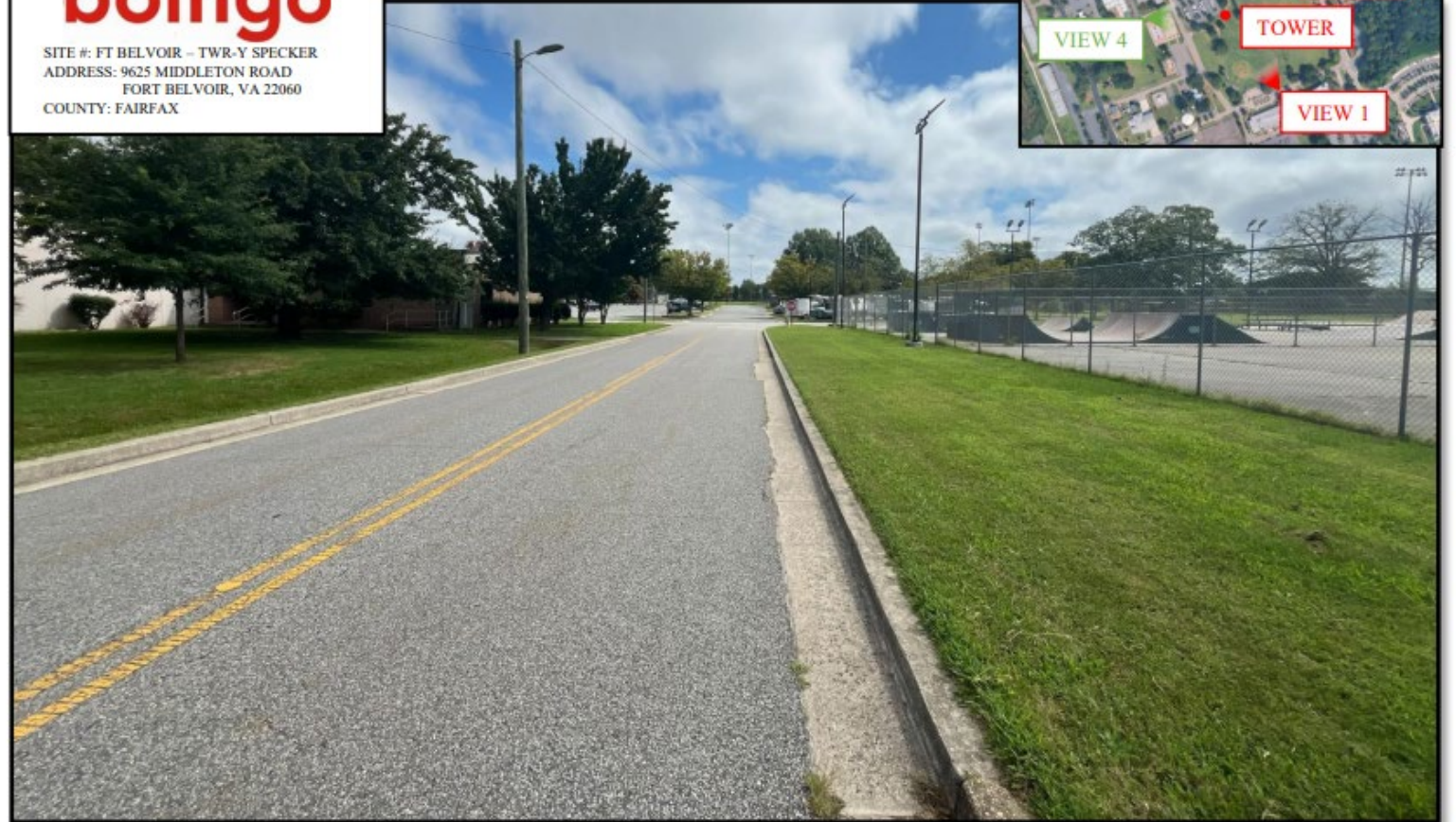
Specker Site



Specker Site



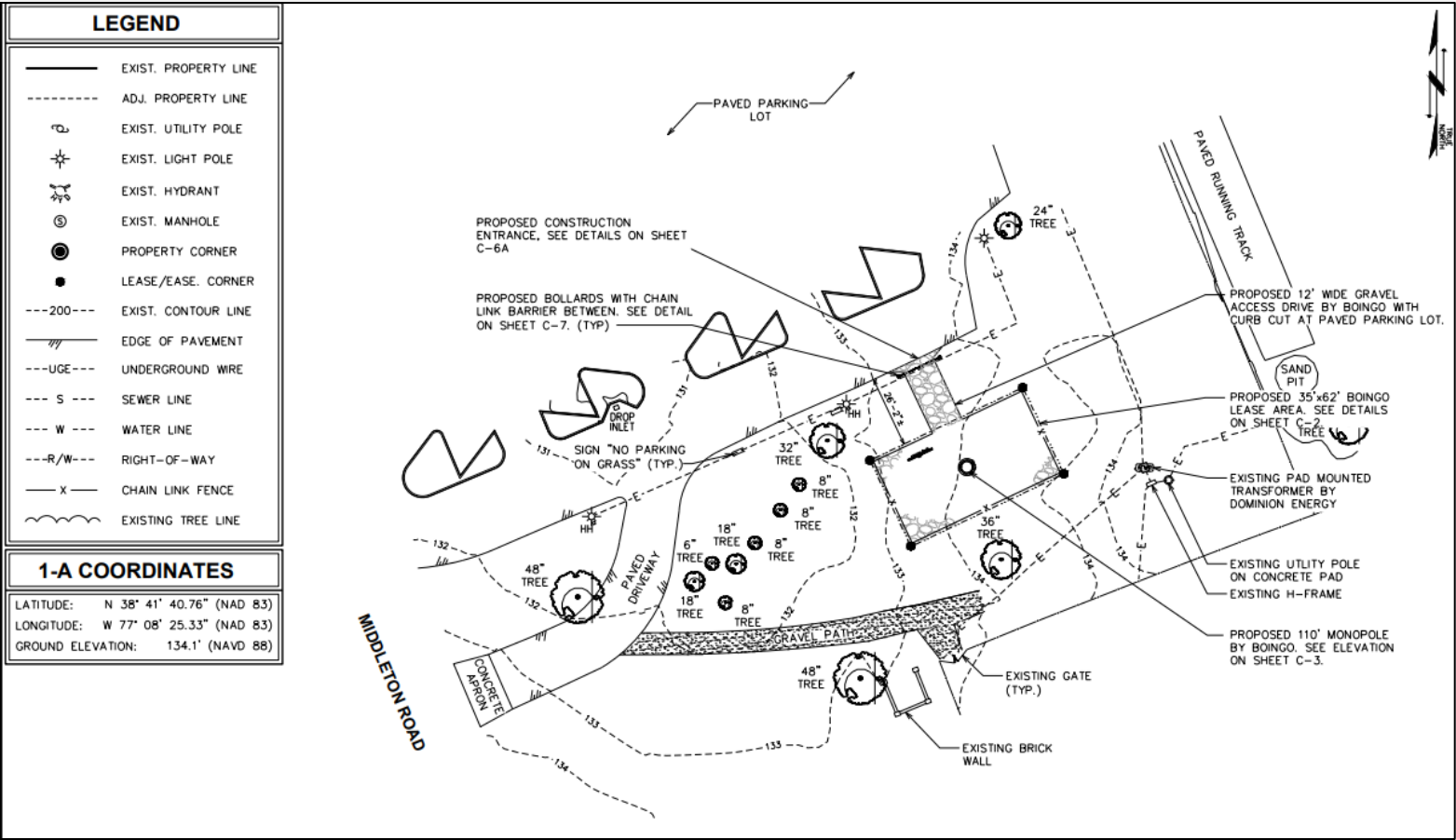
EXISTING VIEW: LOCATION 4



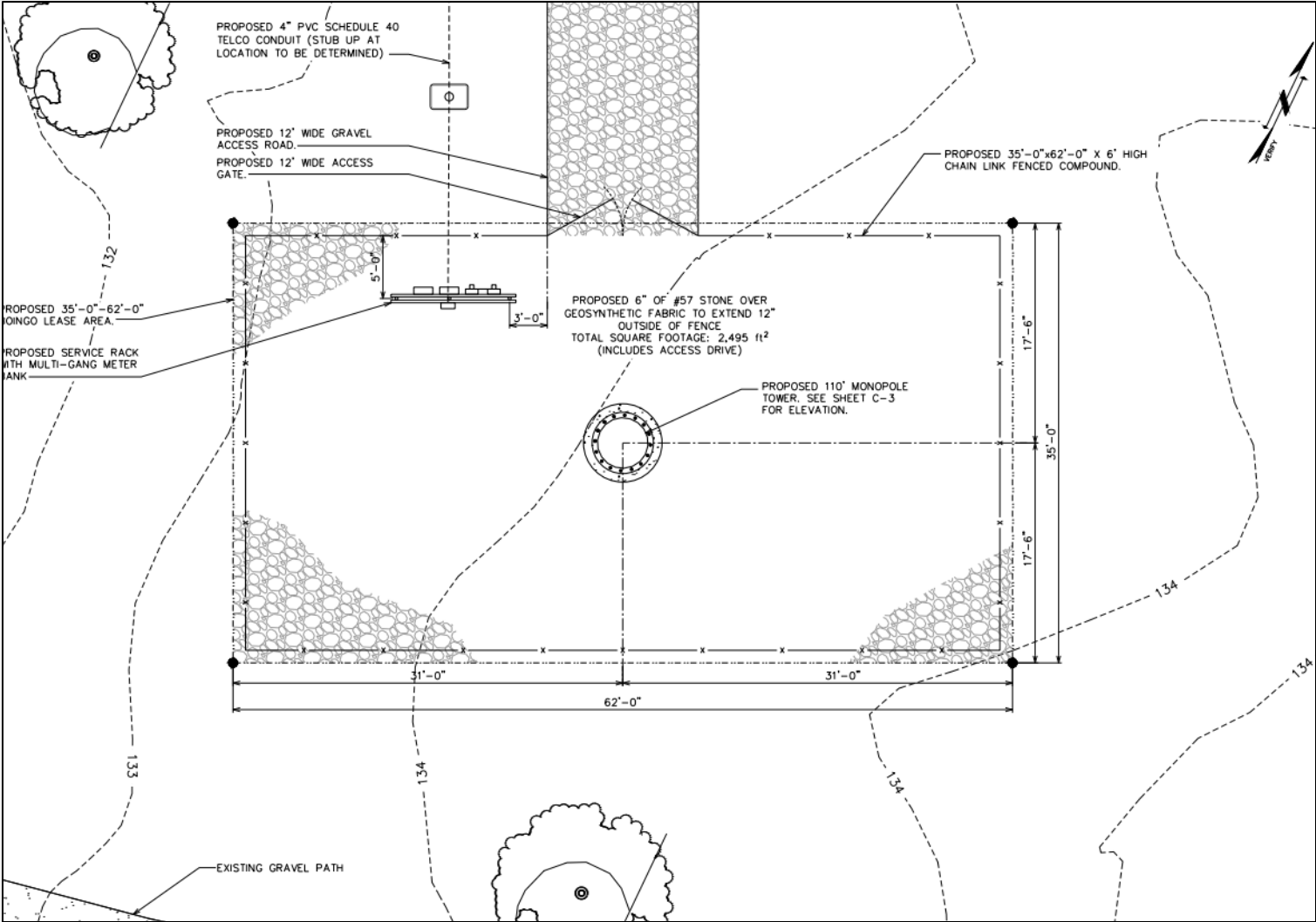
Specker Site



Specker Site



Specker Site

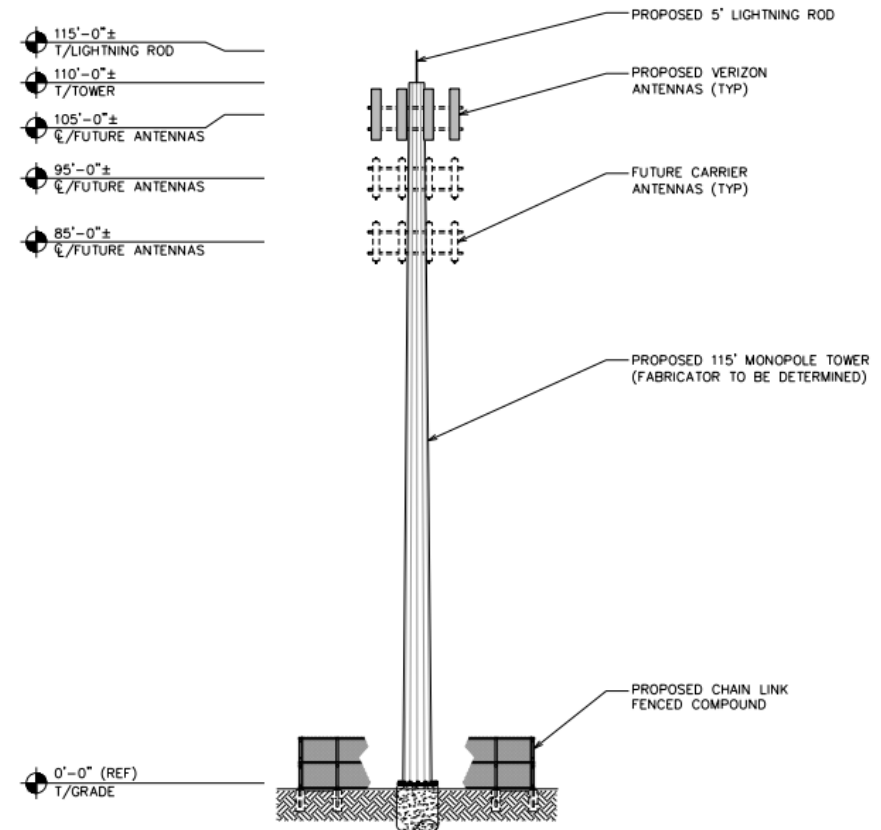


Specker Site

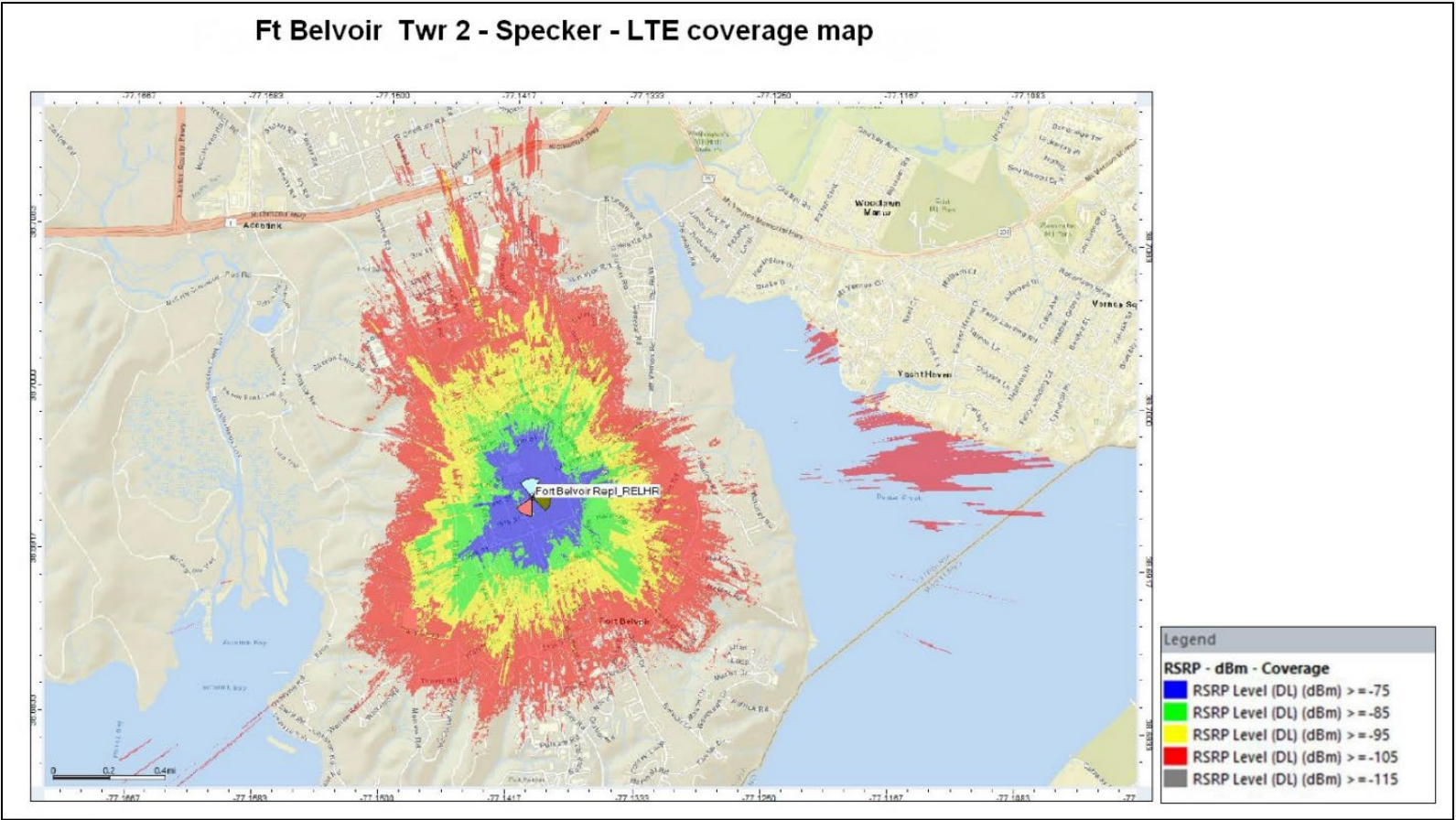


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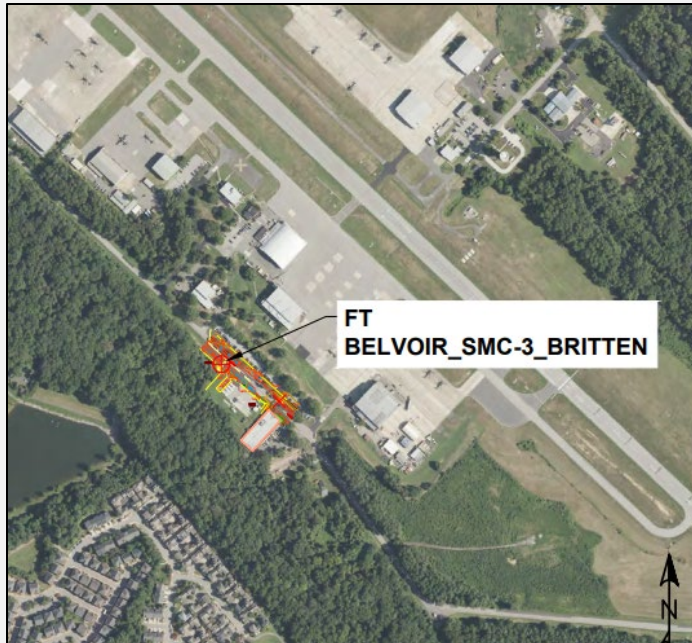
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Specker Site



Britten Site



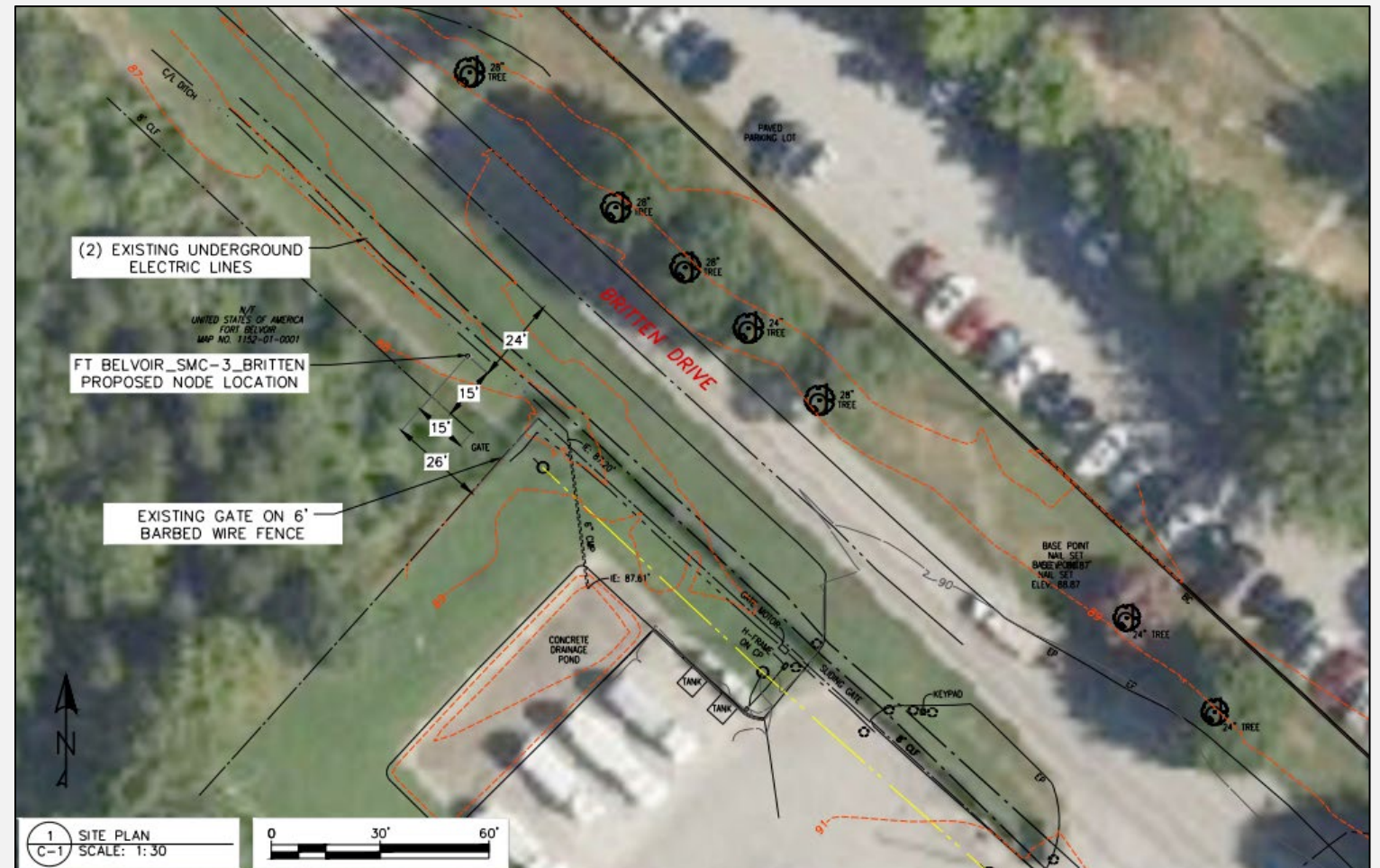
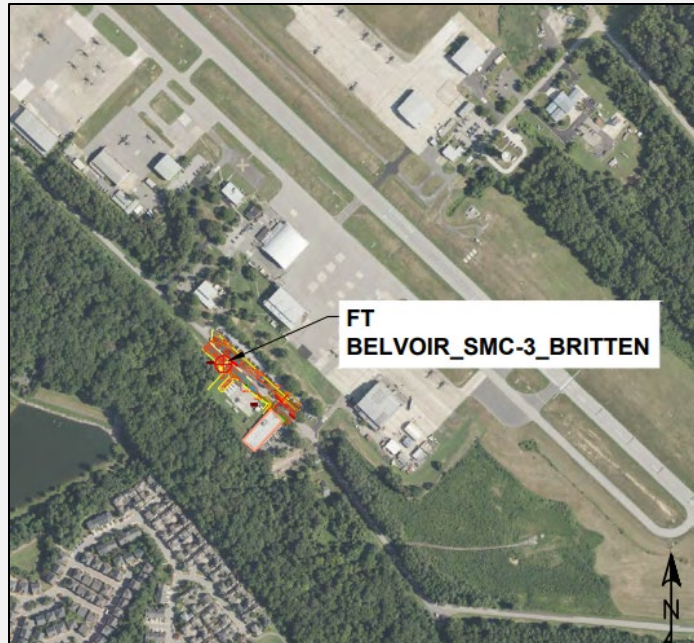
Britten Site



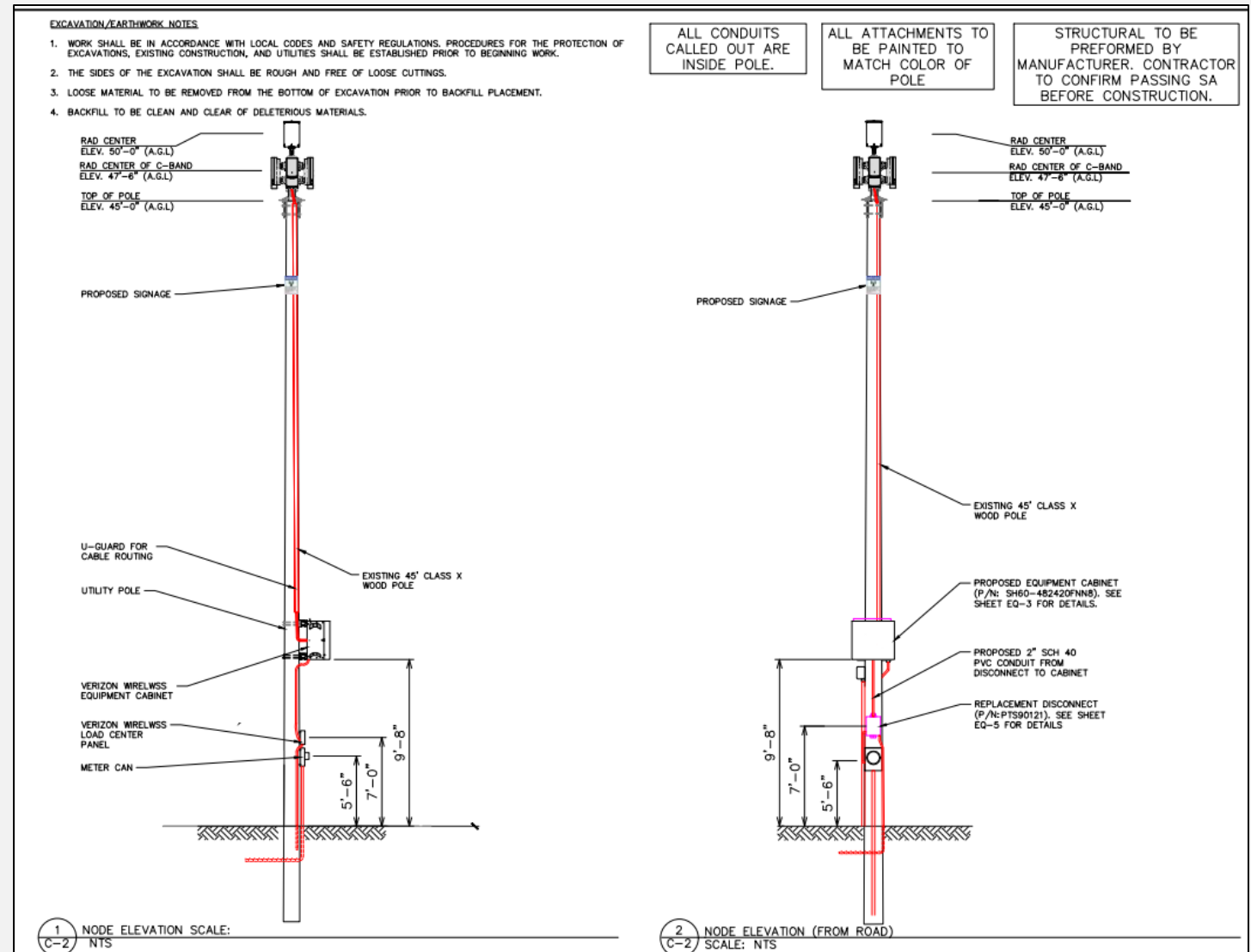
Britten Site



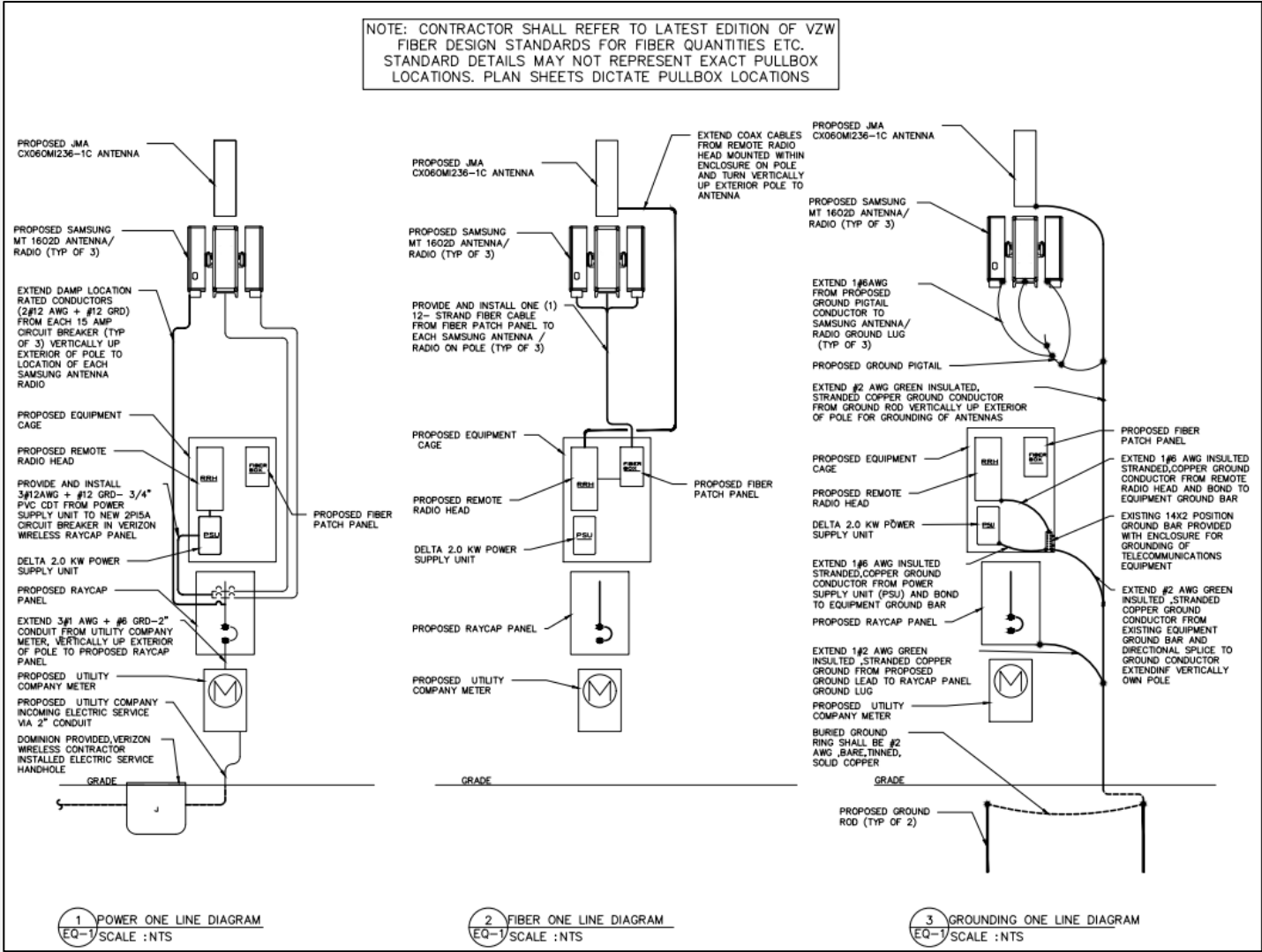
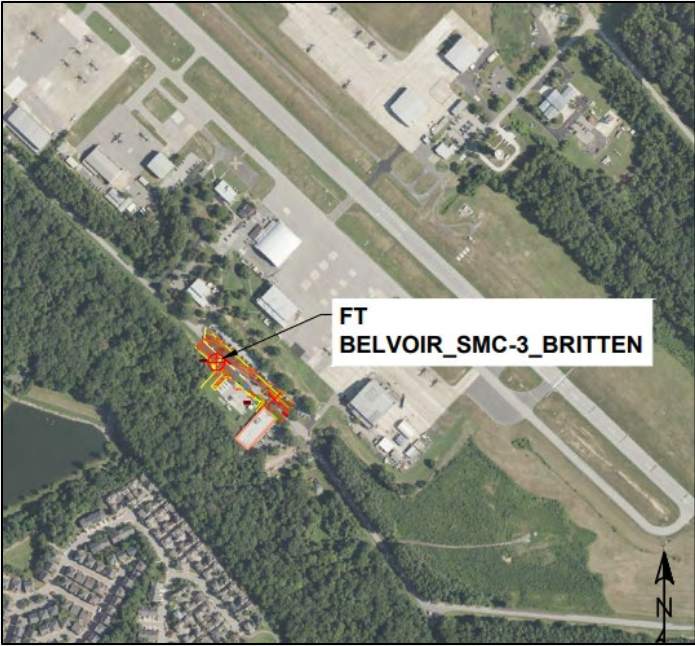
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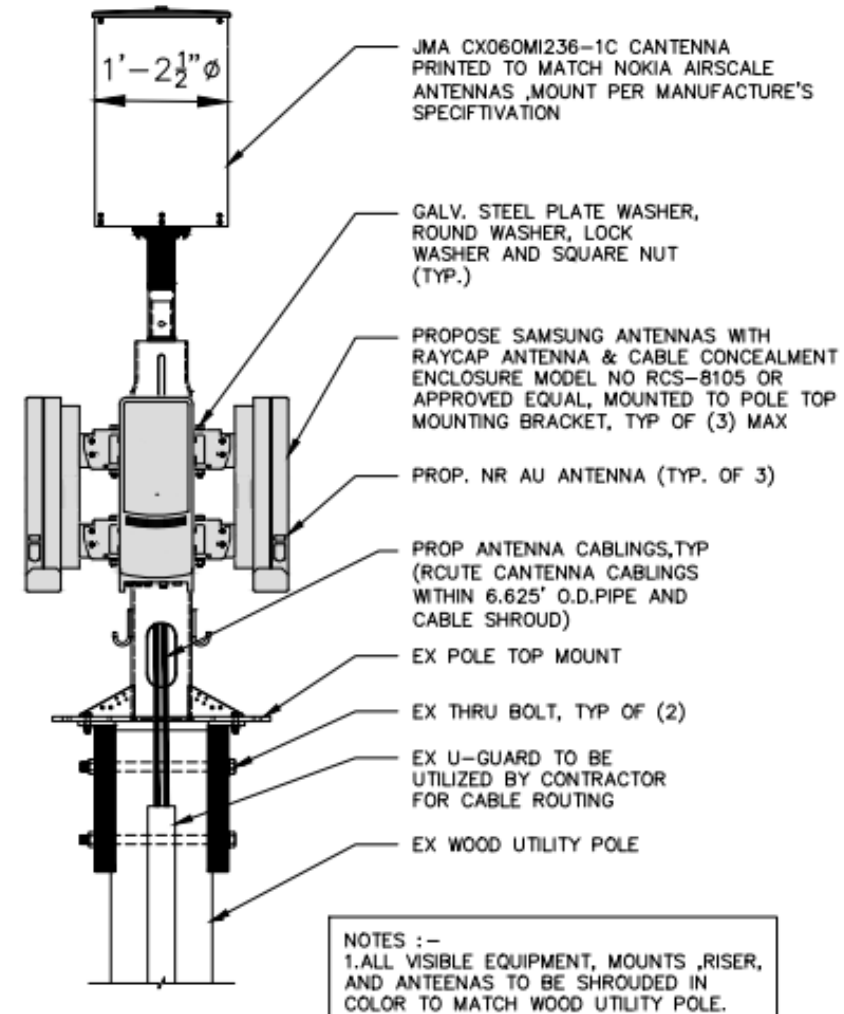
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Britten Site



Britten Site



Britten Site

