

**Project Narrative: GSA Frontage Rooftop**  
**451 7<sup>th</sup> Street SW, Washington, D.C. 20410**

**Project Description:**

This project is part of AT&T’s Ericsson Modernization project which will upgrade the technology to the existing AT&T rooftop macro telecommunications site located at 451 7<sup>th</sup> Street SW, Washington, D.C. 20410. This upgrade will add significant speed and capacity to the existing AT&T macro site to support National/Homeland Security and First Responders ahead of upcoming major events at the National Mall and support future enhancements to the FirstNet Platform. There are four existing sectors on the existing rooftop, Alpha – Sector 1, Beta – Sector 2, Gamma – Sector 3, and Delta – Sector 4. Each sector houses two antennas which define the macro site.

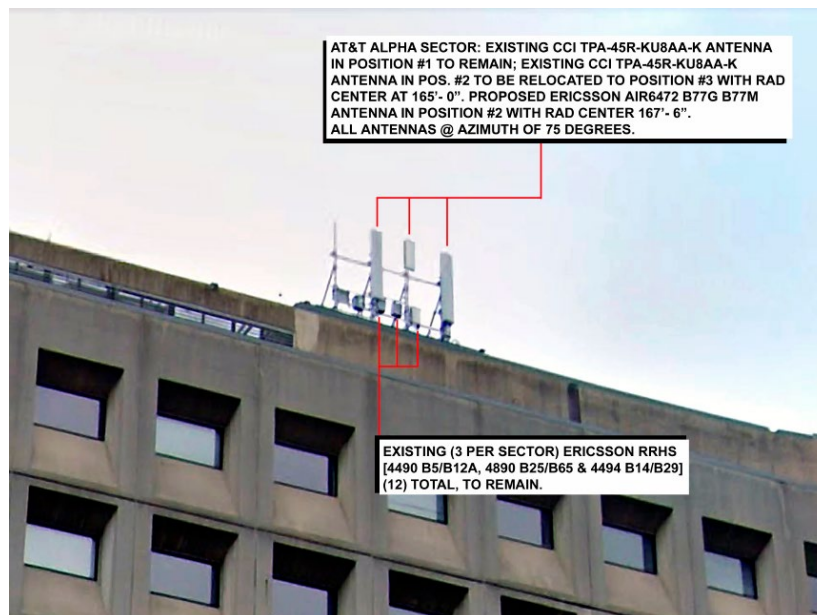
The proposed installation will upgrade the site by installing new Ericsson Antenna. Four (4) existing antennas will be relocated on their current sled mounts, four (4) existing antennas will remain in place, and four (4) new Ericsson antennas will be installed in all four (4) sectors. All antennas in all sectors will meet the required 1:1 setback.

**Proposed Design:**

AT&T is proposing to keep the existing antenna sled mounts in place. No changes will be made to the antenna sled locations. AT&T is proposing to relocate four (4) exiting antennas and install four (4) new antennas. This will cause minimal visual impact on the site. AT&T’s existing RRH will remain and not be changed. The Ericsson antenna upgrade will add speed and capacity to the existing macro site and better support and the FirstNet Platform.

**Proposed Antenna Description:**

AT&T is proposing to relocate four (4) existing CCI TPA-45R-KU8AA-K (98.7 x 15.4 x 8.2”) antennas and install four (4) new Ericsson AIR6472 B777G B77M (36.3 x 15.8 x 7.4”) antennas in each sector.



*Proposed Antenna Array*

**Project Schedule:**

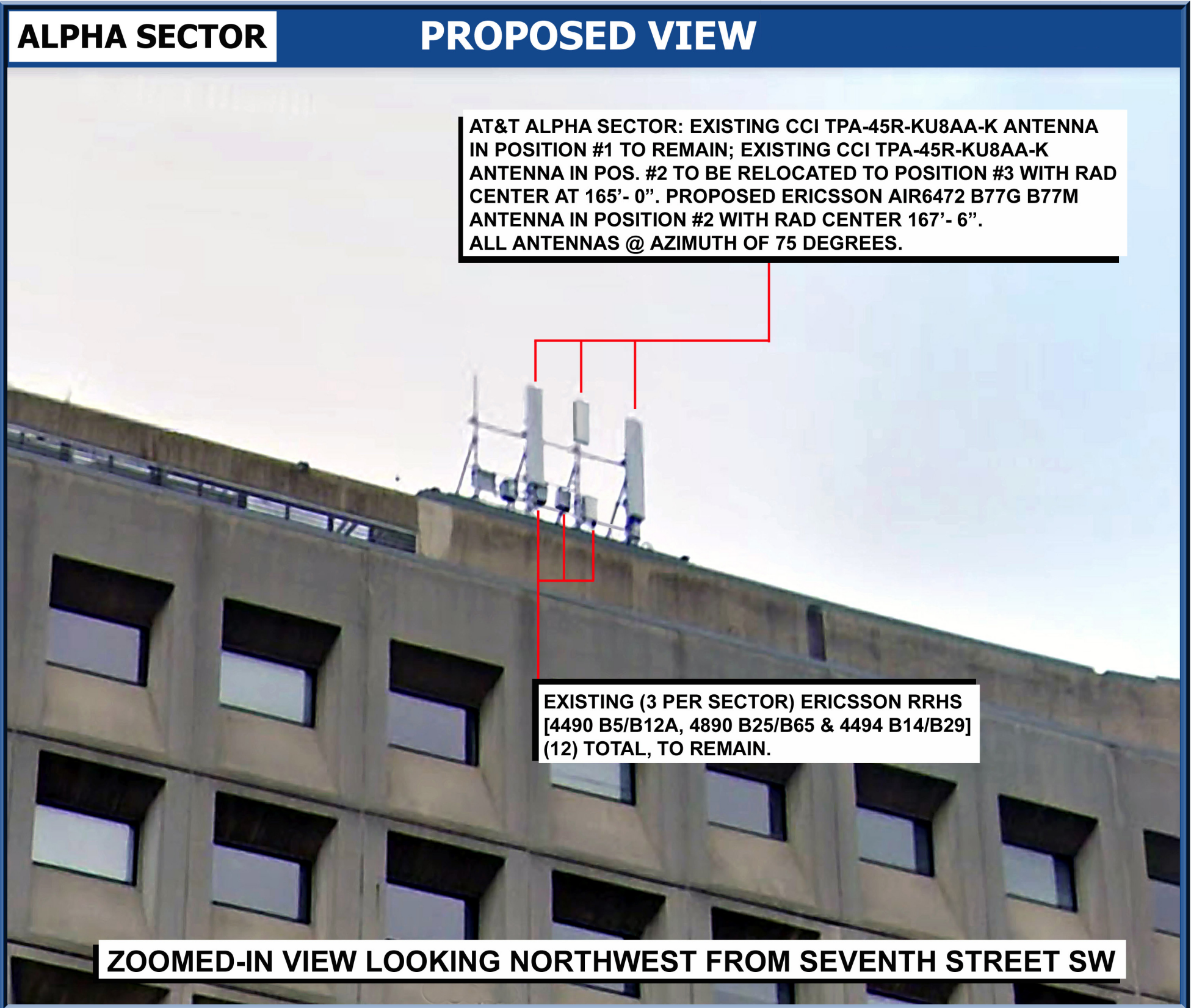
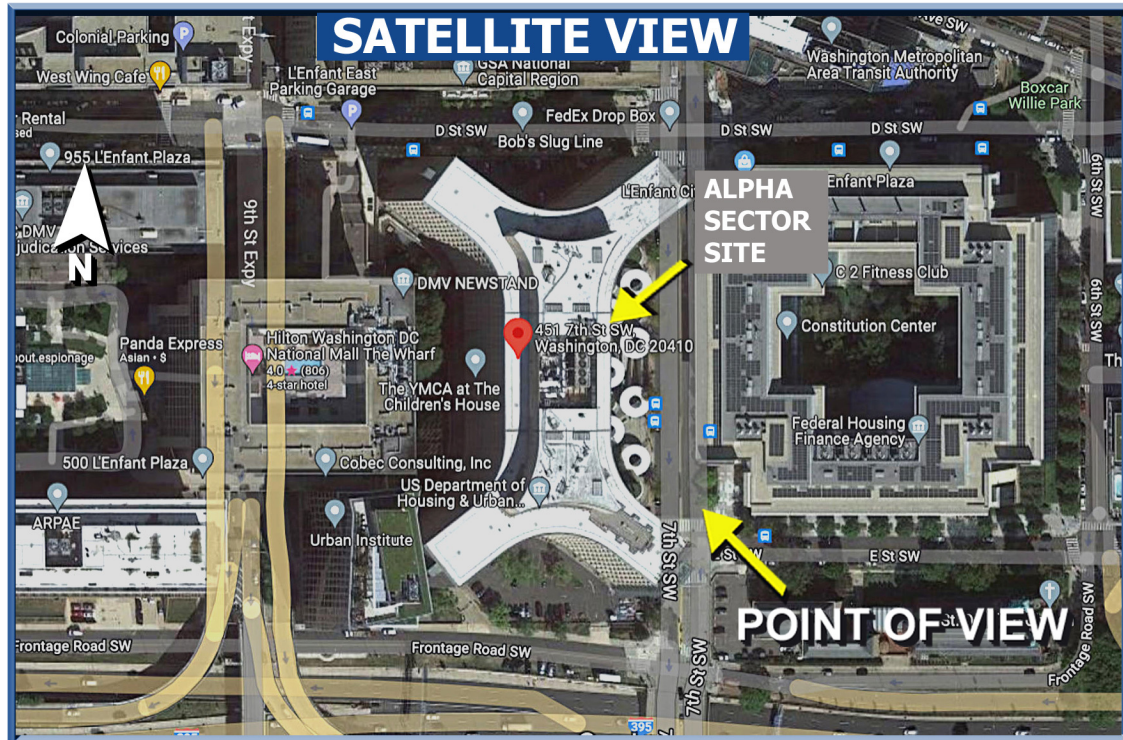
AT&T construction start date is TBD, pending owner approval.

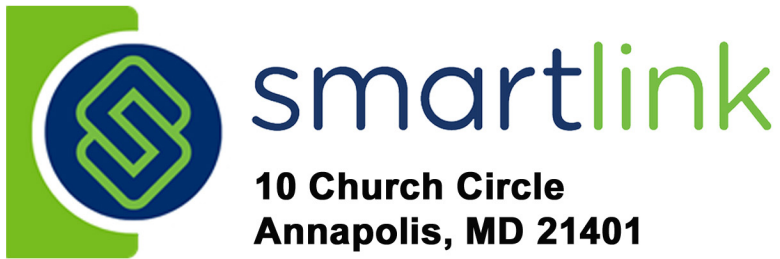
**Proposed Antennas Operational timeline:**

Antenna are proposed as permanent with a timeline of 5 years of operational use.

**Supporting Documents Included with This Submission for Consideration:**

- Construction Drawings
- Mount Analysis
- Structural Analysis
- Photo Simulations
- MPE (RF Report)



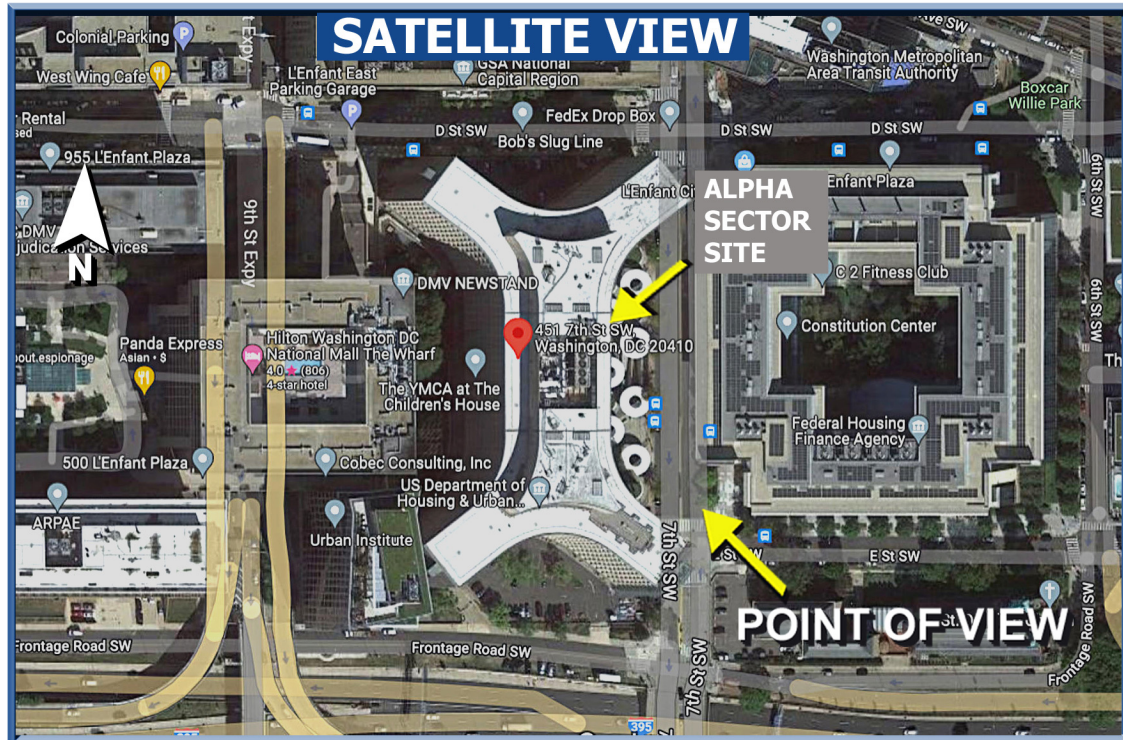


# SITE NAME: FRONTAGE

## FA# 14563656 / USID# 213310

451 SEVENTH STREET, SW  
WASHINGTON, D.C. 20410

Prepared for  
AT&T Mobility  
9000 Mendenhall Ct.  
Columbia, MD 21045

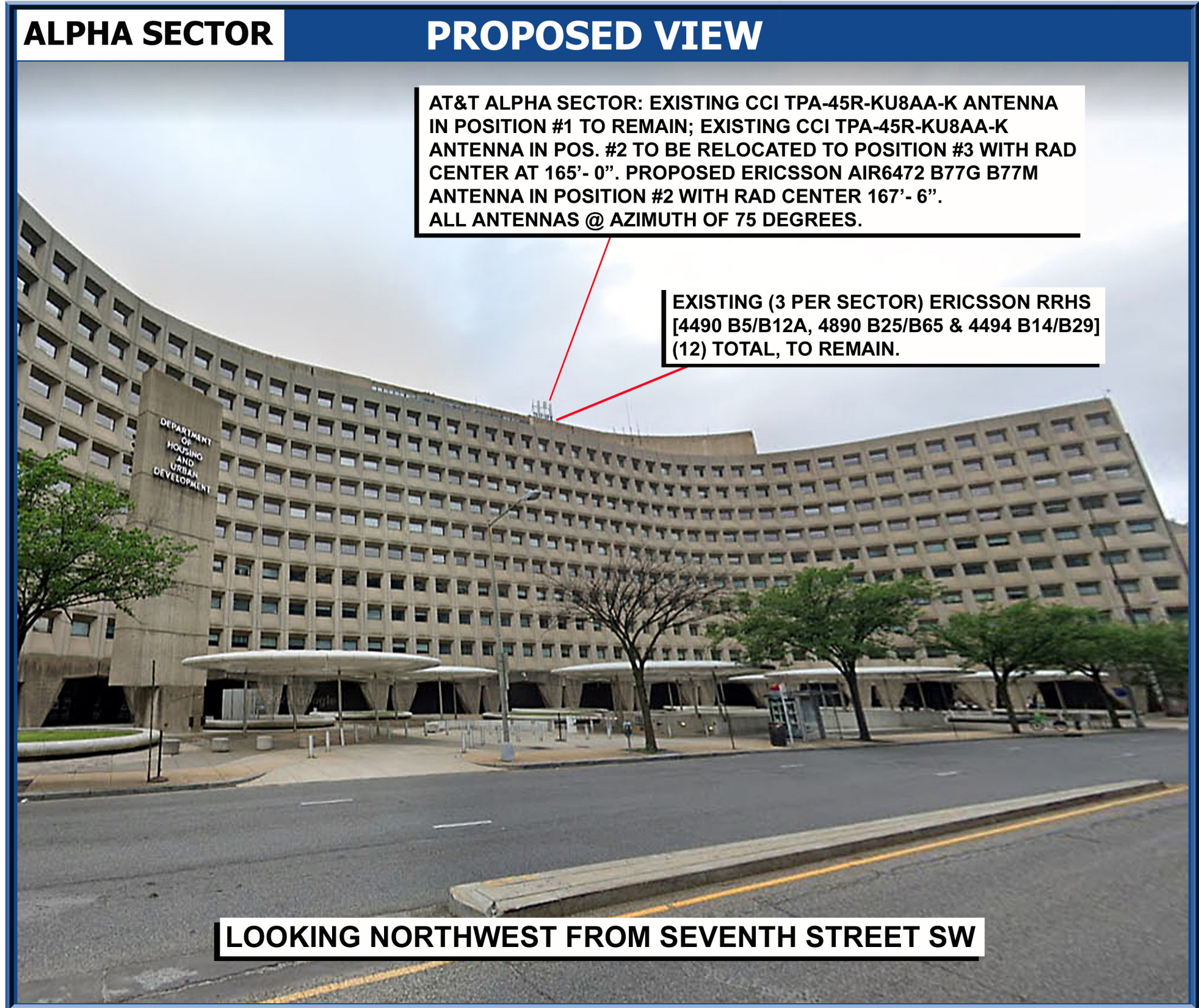


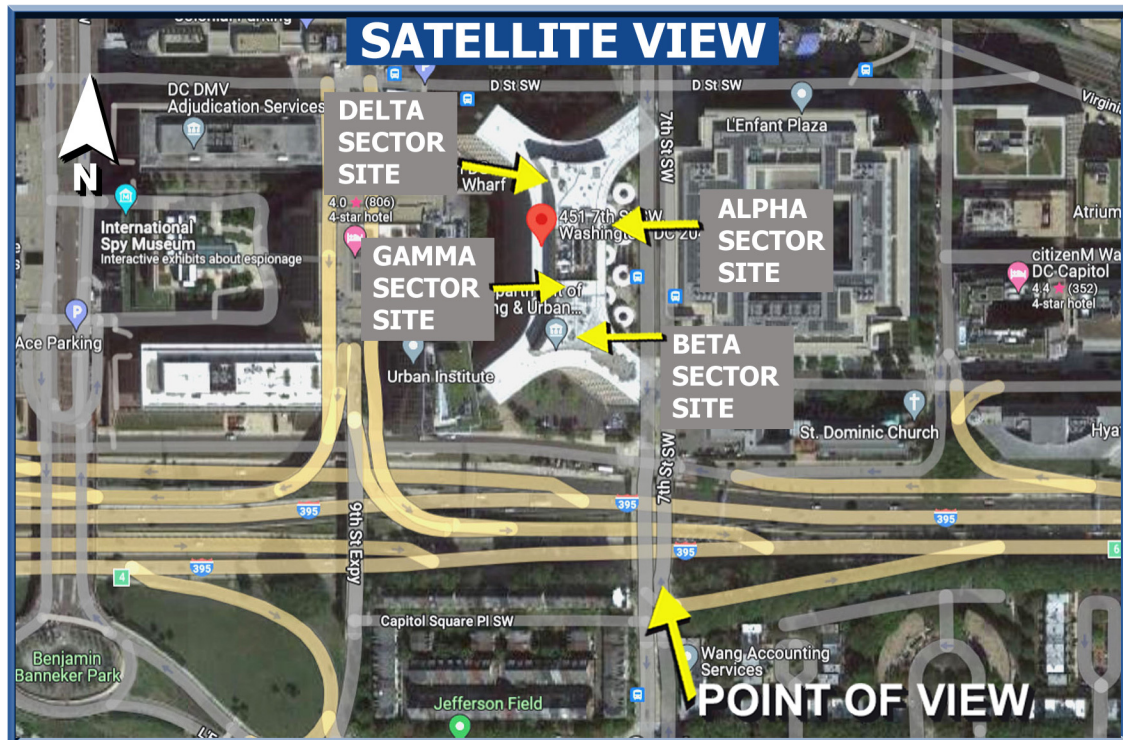
### ALPHA SECTOR

### PROPOSED VIEW

AT&T ALPHA SECTOR: EXISTING CCI TPA-45R-KU8AA-K ANTENNA IN POSITION #1 TO REMAIN; EXISTING CCI TPA-45R-KU8AA-K ANTENNA IN POS. #2 TO BE RELOCATED TO POSITION #3 WITH RAD CENTER AT 165'-0". PROPOSED ERICSSON AIR6472 B77G B77M ANTENNA IN POSITION #2 WITH RAD CENTER 167'-6". ALL ANTENNAS @ AZIMUTH OF 75 DEGREES.

EXISTING (3 PER SECTOR) ERICSSON RRHS [4490 B5/B12A, 4890 B25/B65 & 4494 B14/B29] (12) TOTAL, TO REMAIN.





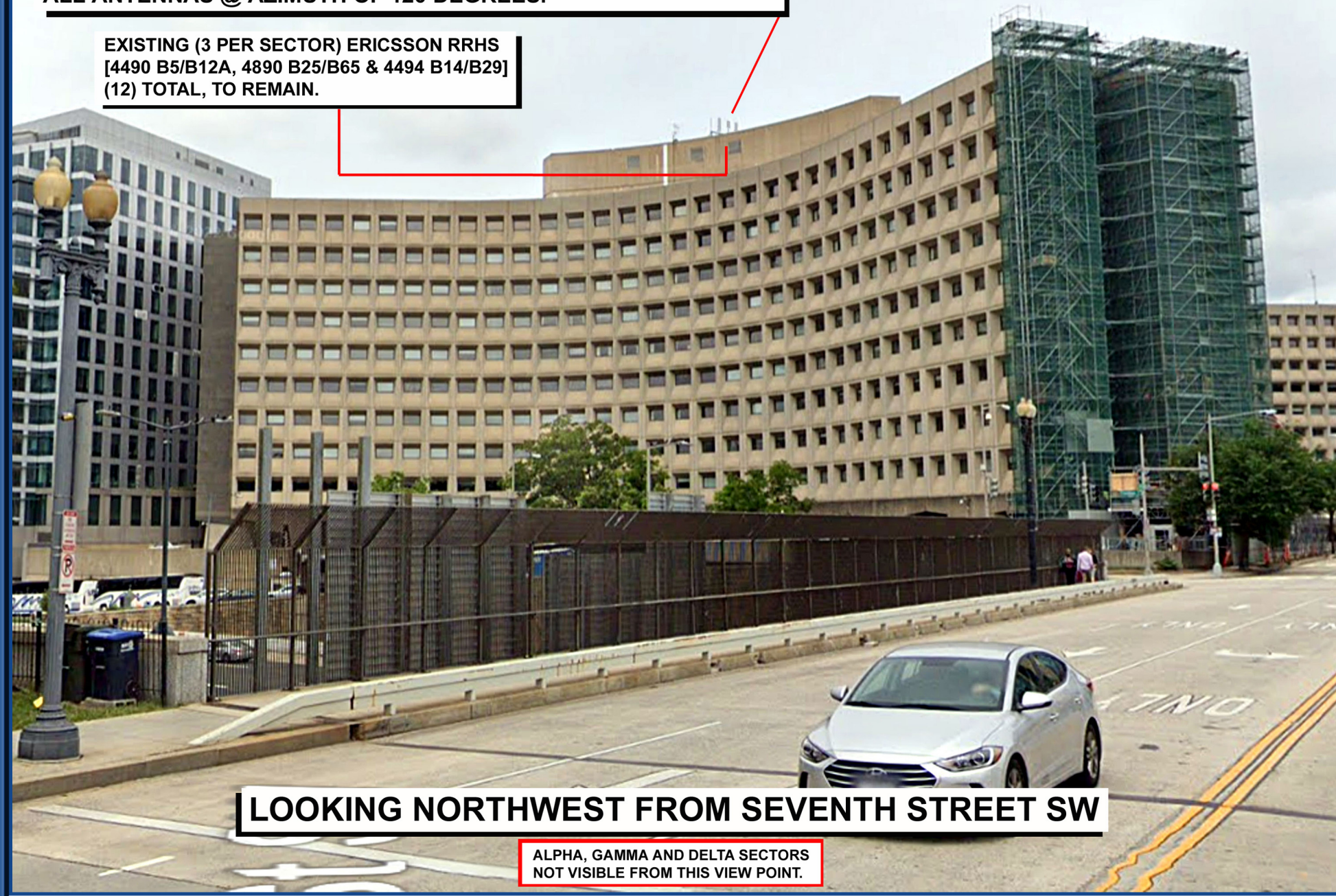
**BETA SECTOR**

**PROPOSED VIEW**

AT&T BETA SECTOR: EXISTING CCI TPA-45R-KU8AA-K ANTENNA IN POSITION #1 TO REMAIN; EXISTING CCI TPA-45R-KU8AA-K ANTENNA IN POS. #2 TO BE RELOCATED TO POSITION #3 WITH RAD CENTER AT 165'-0". PROPOSED ERICSSON AIR6472 B77G B77M ANTENNA IN POSITION #2 WITH RAD CENTER 167'-6". ALL ANTENNAS @ AZIMUTH OF 120 DEGREES.

PROPOSED (1) TRAY ON THE FRONT AND (1) TRAY ON THE BACK OF THE EXISTING BALLAST FRAME TO LOWER THE PSF ON THE ROOF. (2 PER EXISTING BALLAST FRAME). NOT VISIBLE FROM THIS VIEWPOINT.

EXISTING (3 PER SECTOR) ERICSSON RRHS [4490 B5/B12A, 4890 B25/B65 & 4494 B14/B29] (12) TOTAL, TO REMAIN.



**EXISTING VIEW BETA SECTOR**



