# Verizon Wireless Communications Facility at GSA Central Office




GSA Review Submission
Verizon Wireless Temporary Antenna Relocation
Alpha and Gamma Sectors
October 2026

GSA Site Name: GSA Central Office
Verizon Site Name: EOB

# Project Report

## Project Description

Verizon Wireless proposes to relocate existing Alpha and Gamma sector antennas and associated equipment at GSA Central Office, 1800 F Street NW, Washington, DC. The two-year temporary relocation supports continued wireless service during GSA's building renovation.

## Existing Conditions

Alpha occupies the northeast stair penthouse. Gamma occupies the northwest stair penthouse. The renovation requires equipment to move from the affected northern portion of the building.

Beta remains at the south penthouse. No antenna or equipment work at Beta under this project.

## Proposed Changes

Alpha: relocate antennas to clamp mounts at the existing mechanical screen wall. Place associated radios low on the frames for access from the main roof. Add a safety guardrail near the cooling tower well.

Gamma: relocate antennas to low-profile ballasted mounts on the mechanical penthouse roof. Relocate associated equipment to a separate ballasted sled.

Reuse existing conduits and cable pathways where shown. Remove existing north-penthouse antennas, mounts and masonry anchors after the relocated sectors are operational.

# Project Report

Service Continuity

Verizon will install, activate and test the relocated Alpha and Gamma sectors before decommissioning the existing sectors. This sequence avoids an extended outage and loss of wireless service in the surrounding area.

Temporary Relocation Duration

GSA has confirmed a two-year temporary relocation for the duration of the building renovation project.

North-Penthouse Removal

Once the relocated sectors are operational, Verizon will remove the existing antennas, mounts and masonry anchors from the north penthouses. Coordinate the removal date with GSA's renovation schedule.

Structural and Access Considerations

The mount and building analyses provided by MRA shows no structural issues. The Alpha frames clamp to the screen wall without penetrating it. Gamma uses ballasted antenna and equipment supports.

The Gamma antenna mounts will be installed adjacent to the existing parapet, while the separate equipment sled will be positioned at least 15 feet from the roof edge. MRA includes fall-protection provisions at Alpha.

Construction Coordination

Coordinate access, component delivery, lifting and cutover with GSA and the renovation contractor. Final construction drawings will incorporate review comments.

Repair surfaces affected by removal to match adjacent material and color.

# Project Report

Visibility and Historic Review

The proposal changes antenna locations from the northern stair penthouses to the mechanical screen wall and mechanical penthouse roof. The accompanying elevations show the proposed relationship to the building roofline.

Antennas to be painted to match the color of the existing screen walls and background to minimize visual impact.

GSA review precedes the intended CFA and NCPC submissions. Coordinate historic-preservation review and the visual exhibits with GSA. Updated photo simulations are provided to document street-level appearance.

Cumulative Equipment

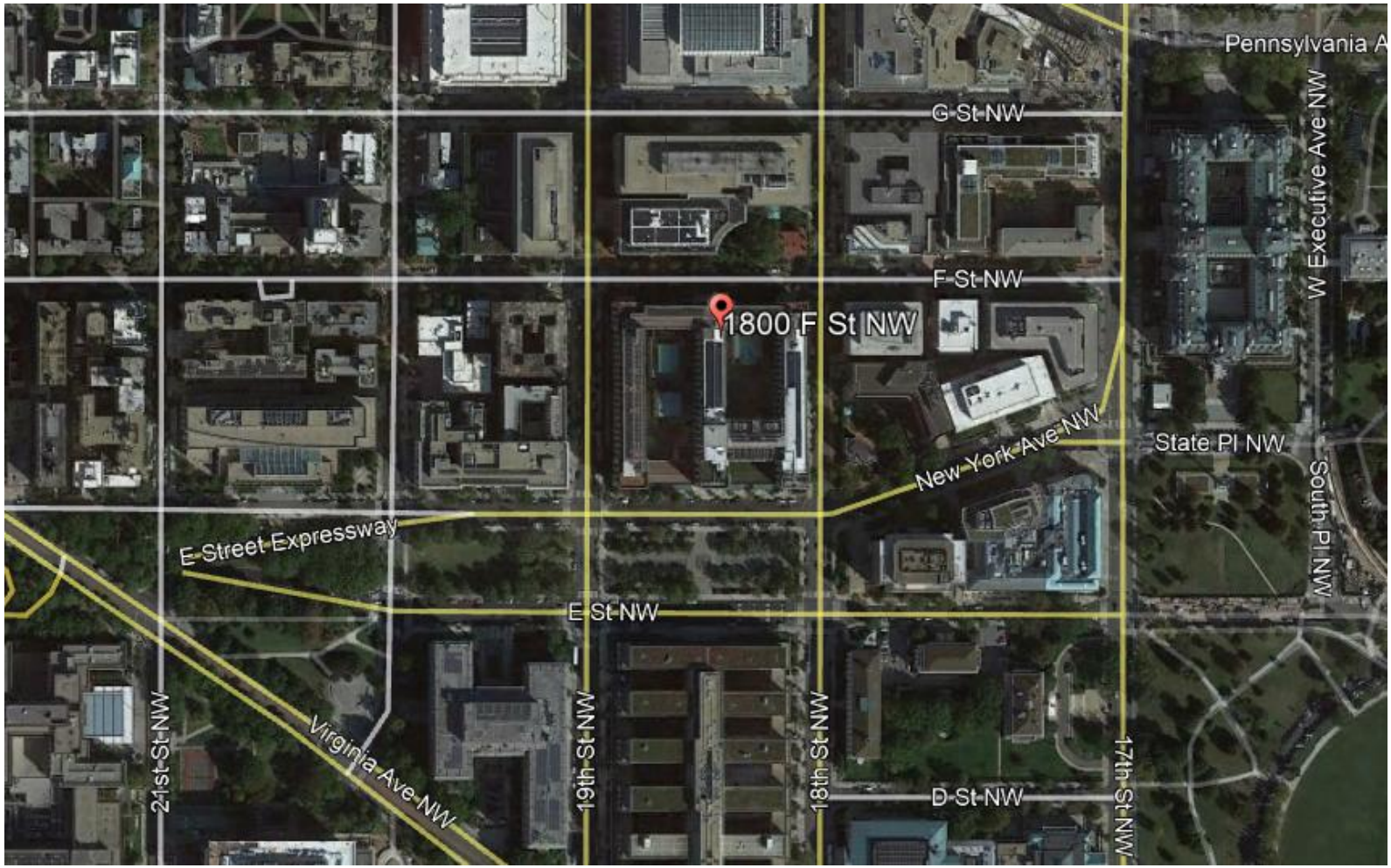
Drawings provided reflect 6 antenna entries at Alpha, 5 at Beta and 6 at Gamma, totaling 17 Verizon antennas. Alpha and Gamma entries are marked for relocation. Beta entries remain existing.

This relocation does not add antennas to the Verizon inventory shown in the PCDs. The total rooftop inventory for other carriers and government users requires confirmation before agency filing.




# EXHIBITS

# Vicinity Map



# Neighborhood Description

GSA Central Office- 1800 F Street NW, Washington, D.C. 20405

Surrounding landmarks include:

**To the North of the GSA Central Office:** Washington Passport Agency, George Washington University, The World Bank

**To the East of the GSA Central Office** : Lafayette Square Park, The White House, Eisenhower Executive Office Building, Association of Collegiate Schools of Architecture, The Presidents Park, The South Lawn

**To the South of the GSA Central Office** :US Department of the Interior Museum, US Office of Personnel Management, Robert Latham Owen Park, South Interior Building, Art Museum of the Americas

**To the West of the GSA Central Office** : US Department of State, School Without Walls High School, Triangle Park, Rawlins Park, Elliott School of International Affairs, State Plaza Hotel

# Photo Simulation Location Legend

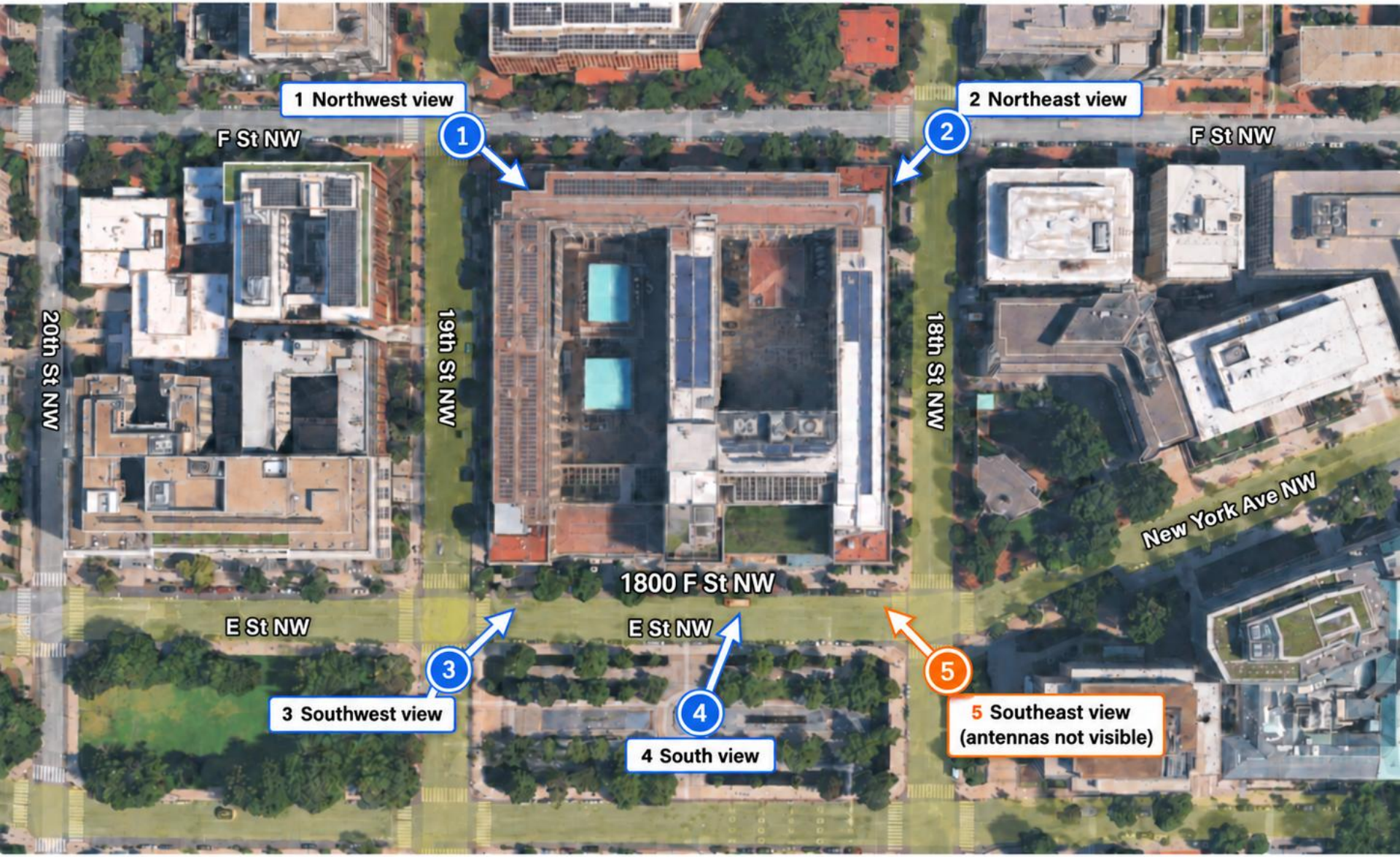
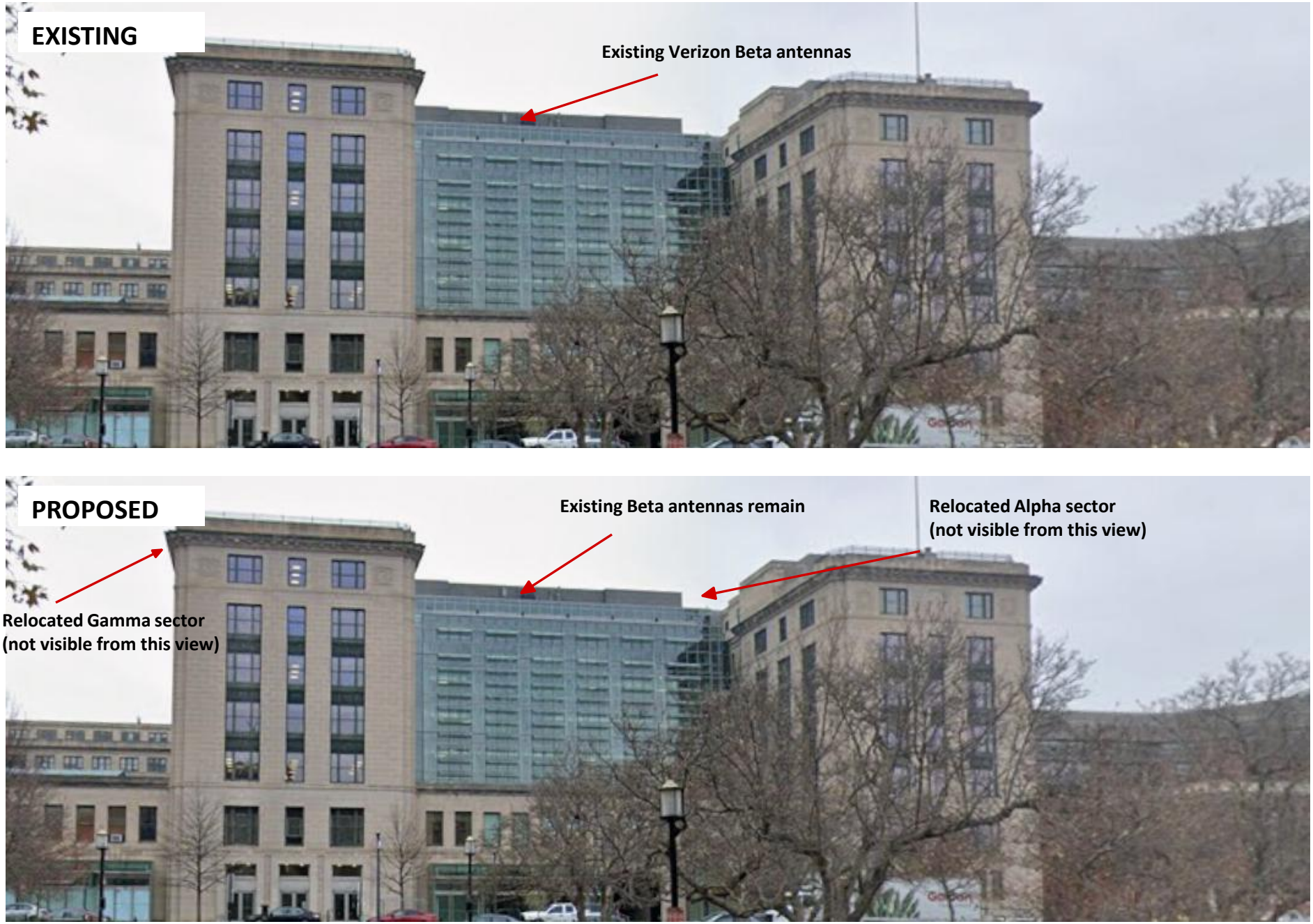



Photo simulation viewpoints

Camera locations are approximate.

Antennas not visible from this viewpoint

# South View – Existing vs. Proposed

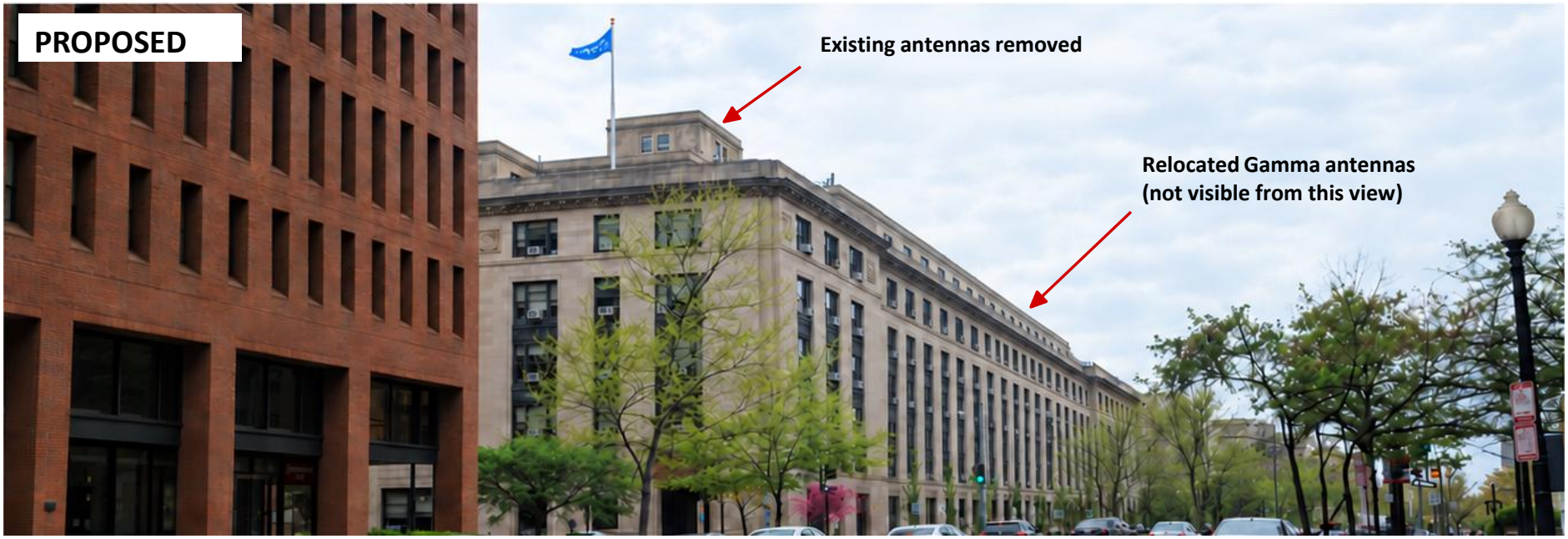


# Southwest View – Existing vs. Proposed



# Northwest View – Existing vs. Proposed



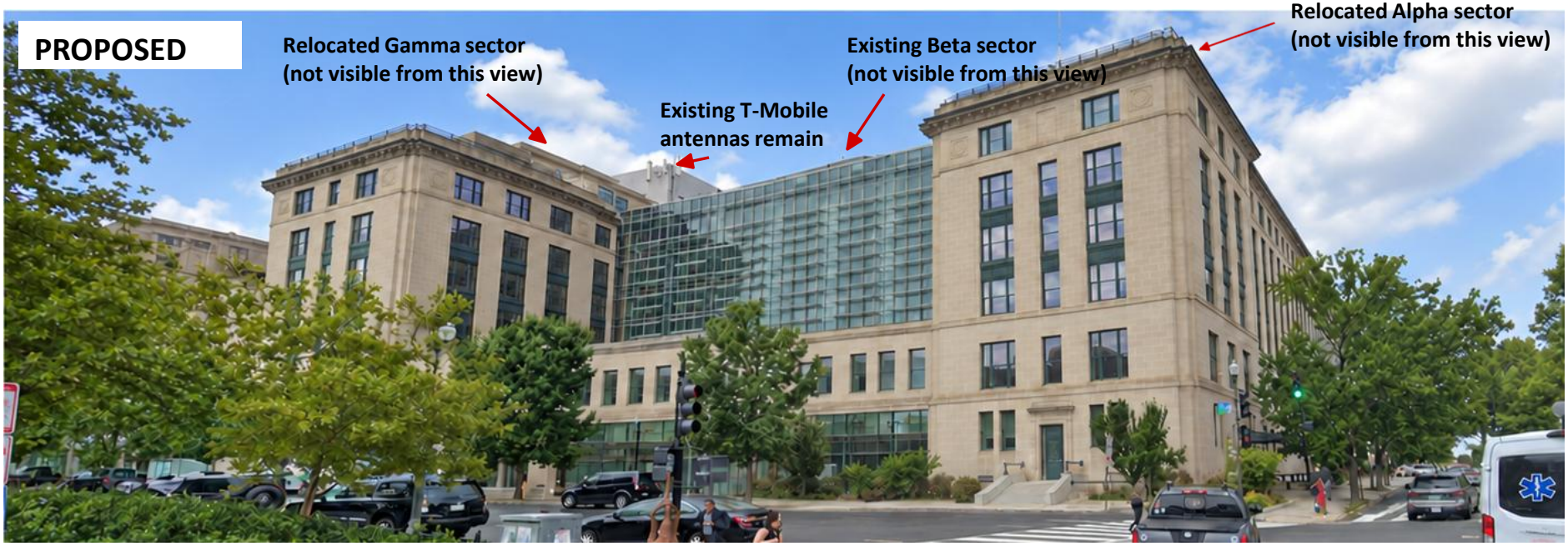
# Northeast View – Existing vs. Proposed



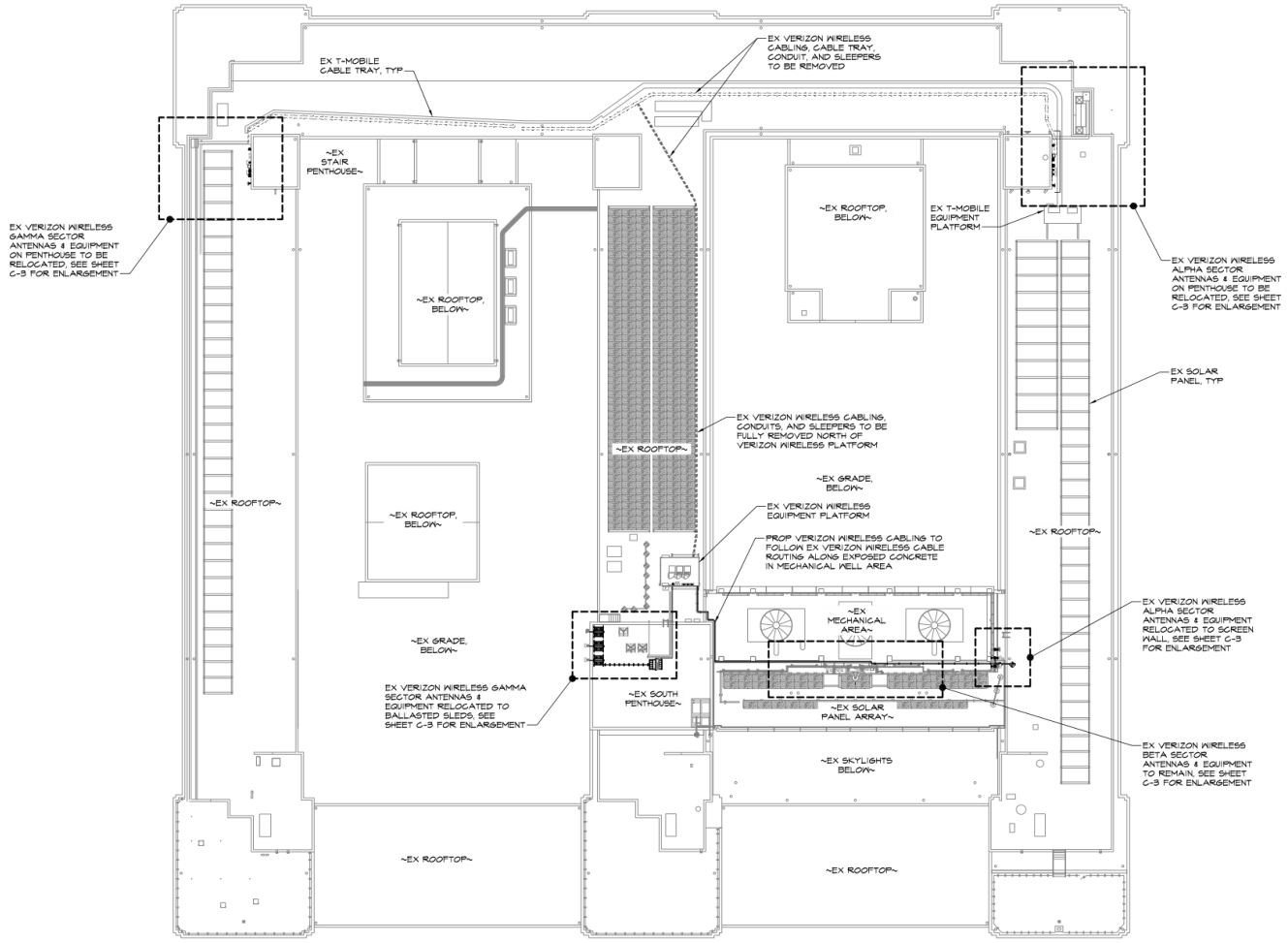



# Southeast View – Existing vs. Proposed



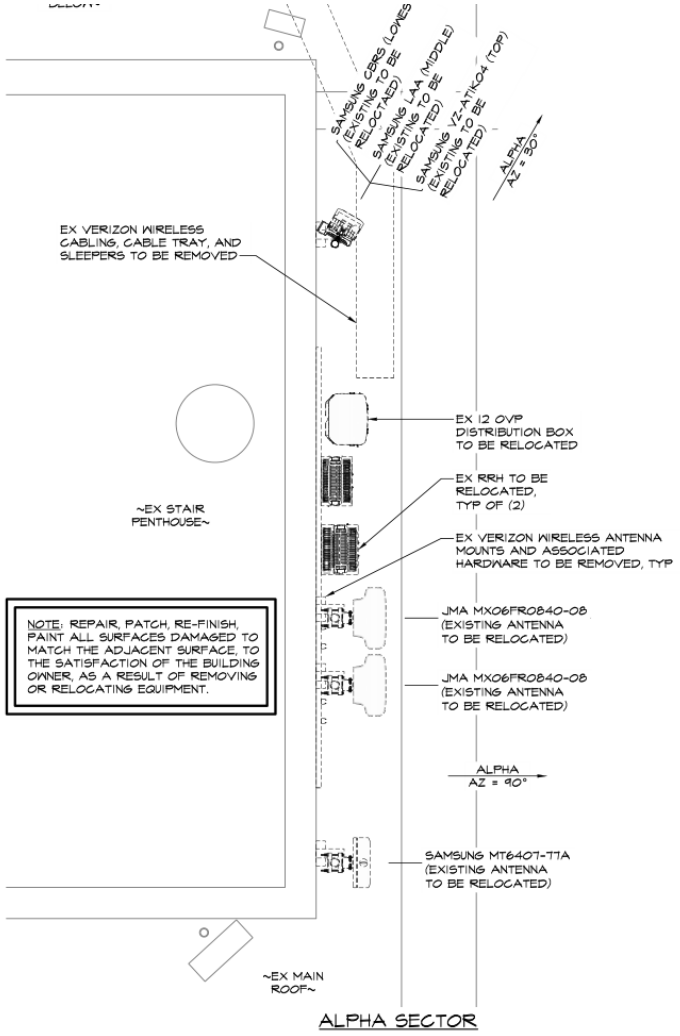



# Existing and Proposed Rooftop Locations



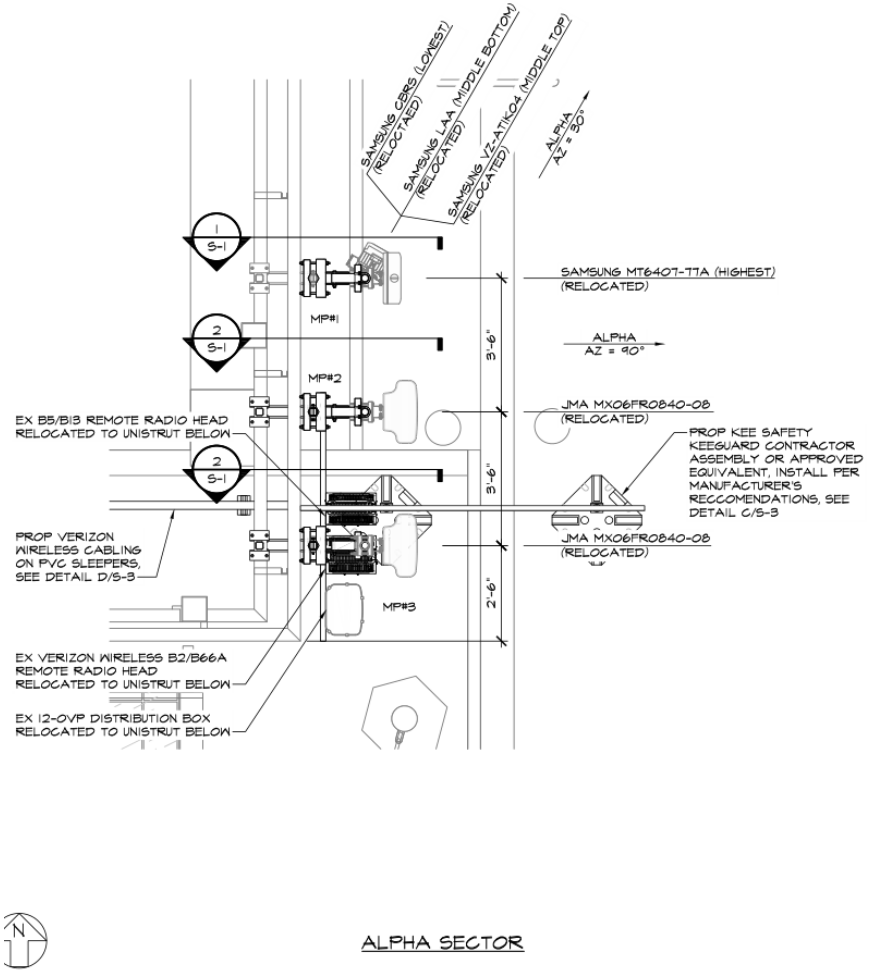

Alpha moves to the screen wall. Gamma moves to the mechanical penthouse. Beta remains.

# Alpha Sector – Existing




Existing northeast stair-penthouse installation.

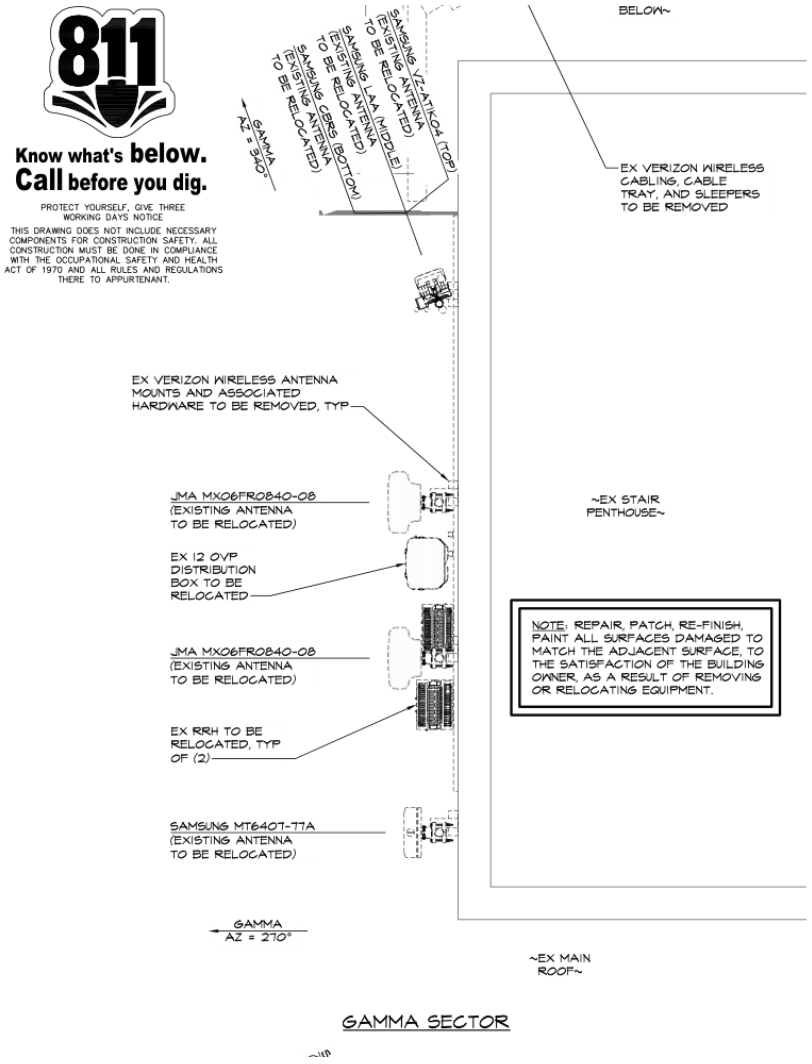
# Alpha Sector – Proposed




ALPHA SECTOR

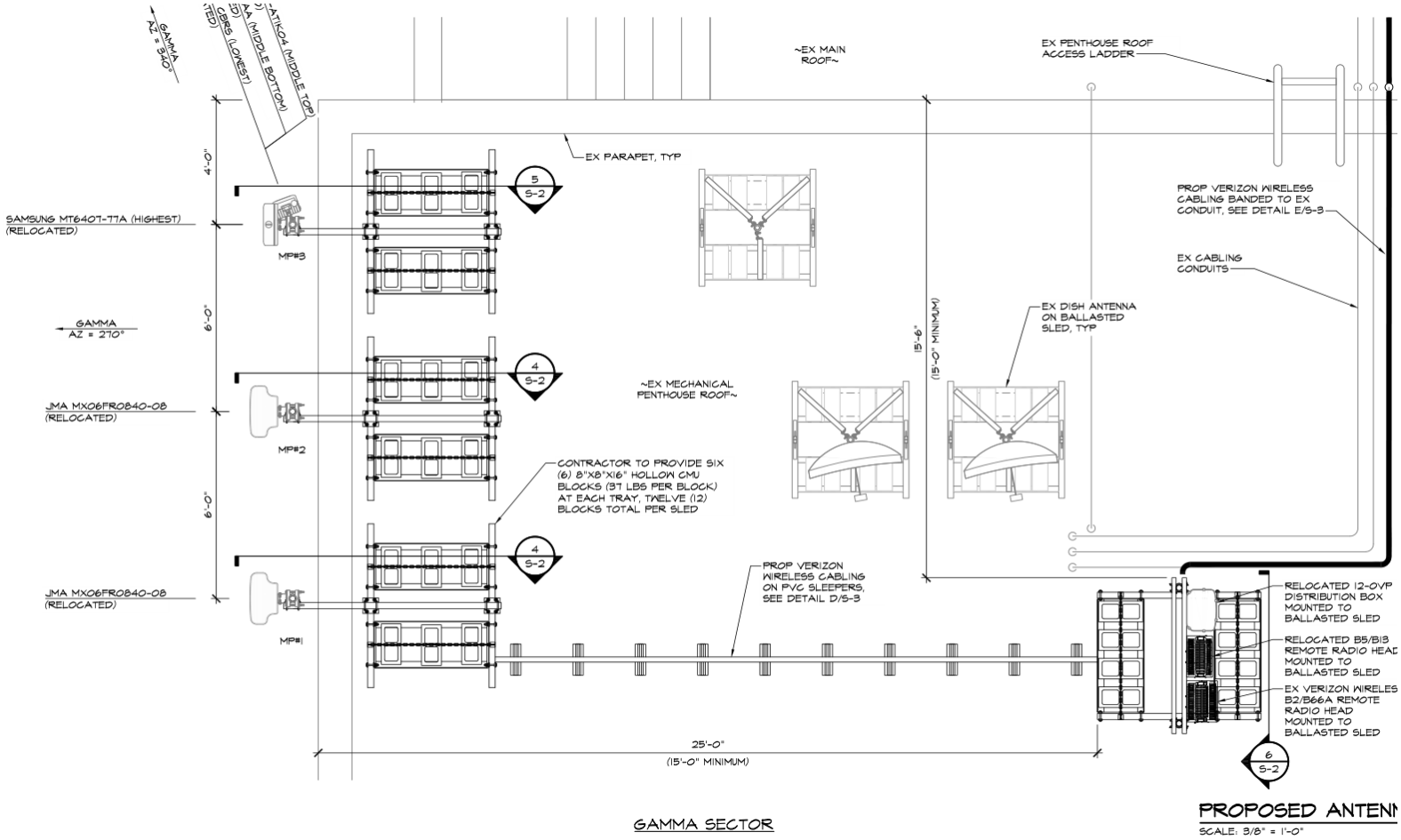
Screen-wall clamp mounts, low radio placement and proposed guardrail.

# Gamma Sector – Existing




Existing northwest stair-penthouse installation.

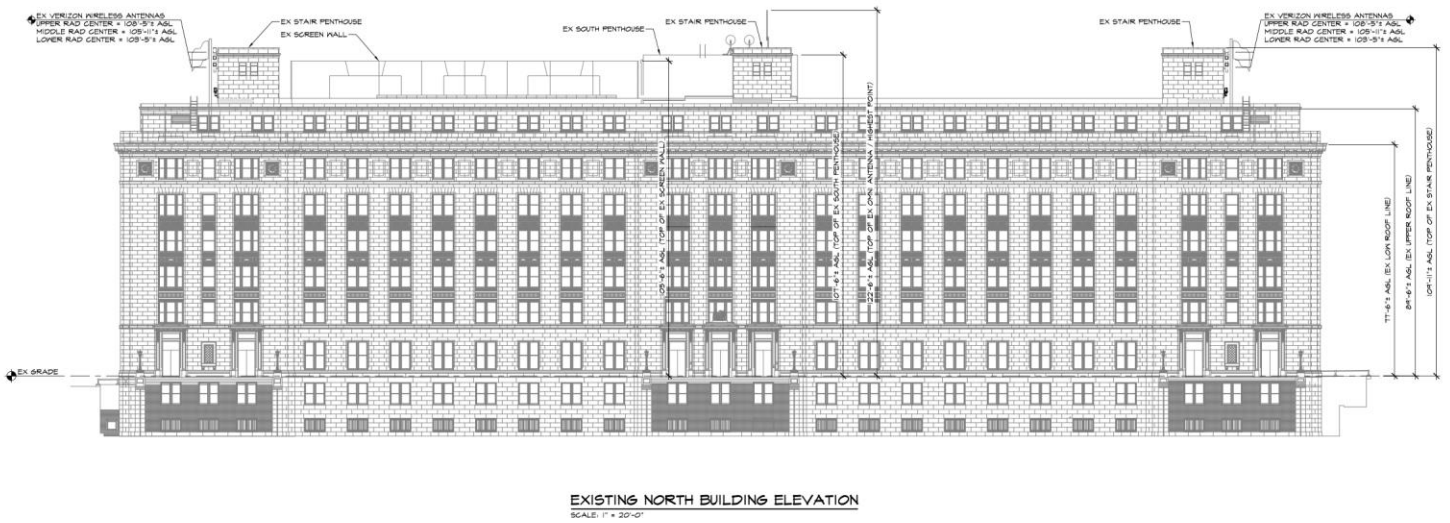
# Gamma Sector – Proposed



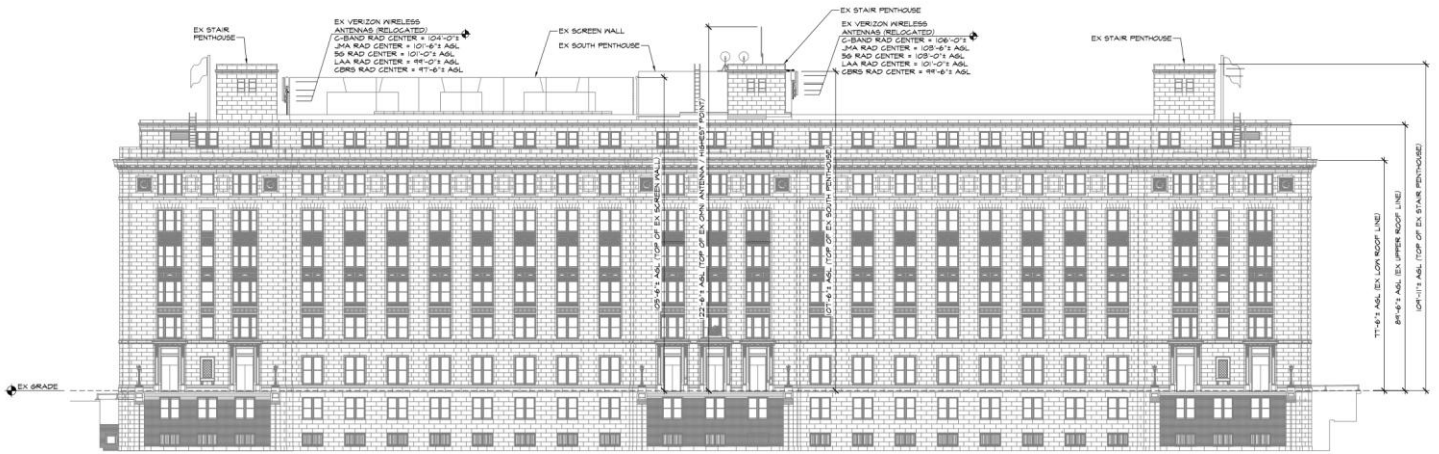

Ballasted antenna supports and separate equipment sled on the mechanical penthouse.

# Building Elevation – North

Existing

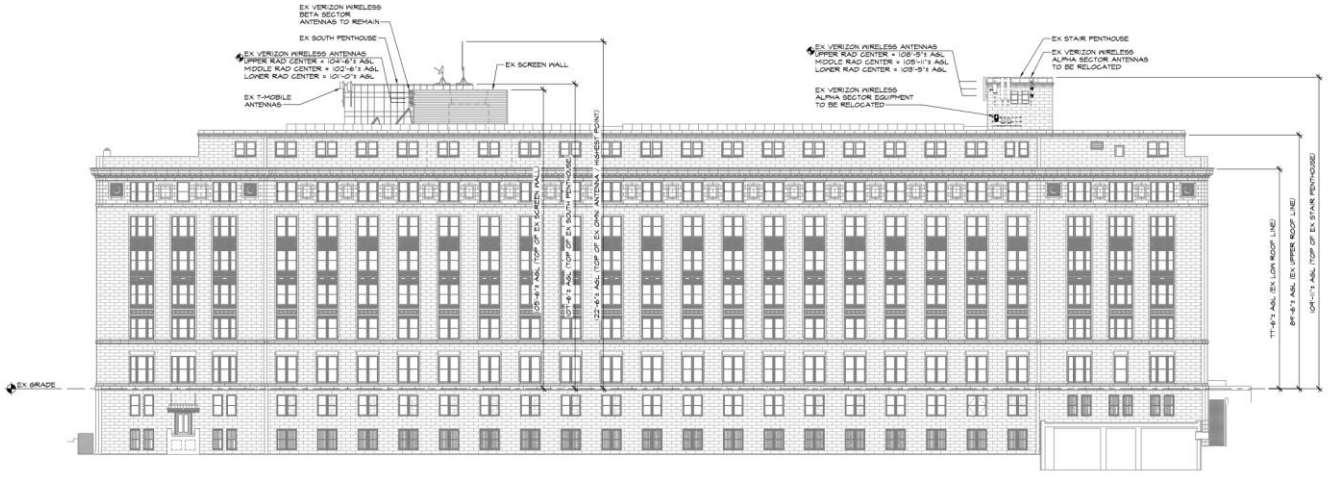



Proposed



# Building Elevation – East

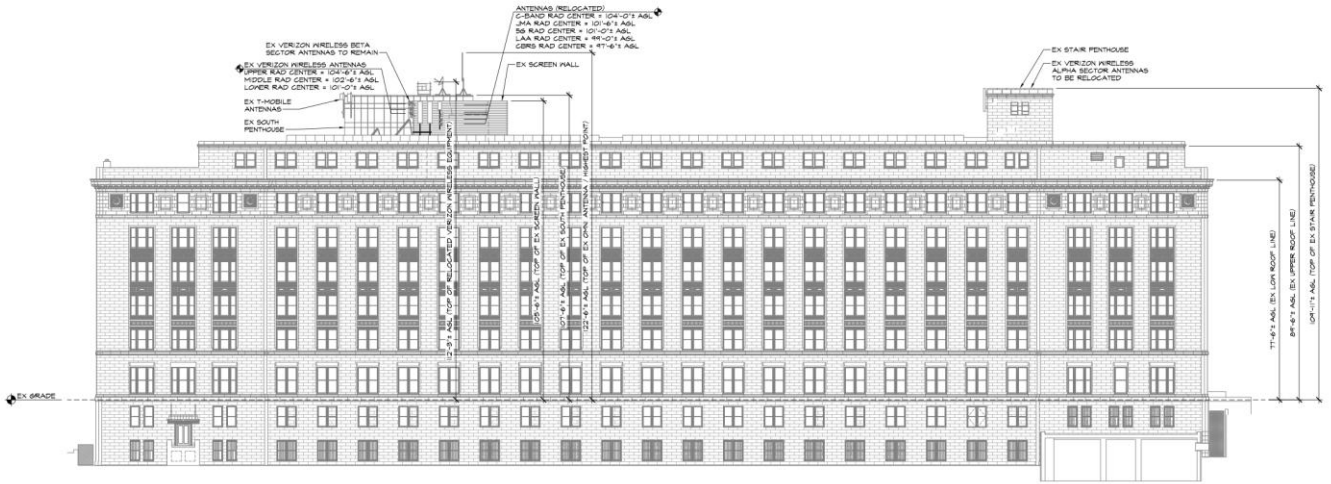
Existing




EXISTING EAST BUILDING ELEVATION

SCALE: 1" = 20'-0"

Proposed

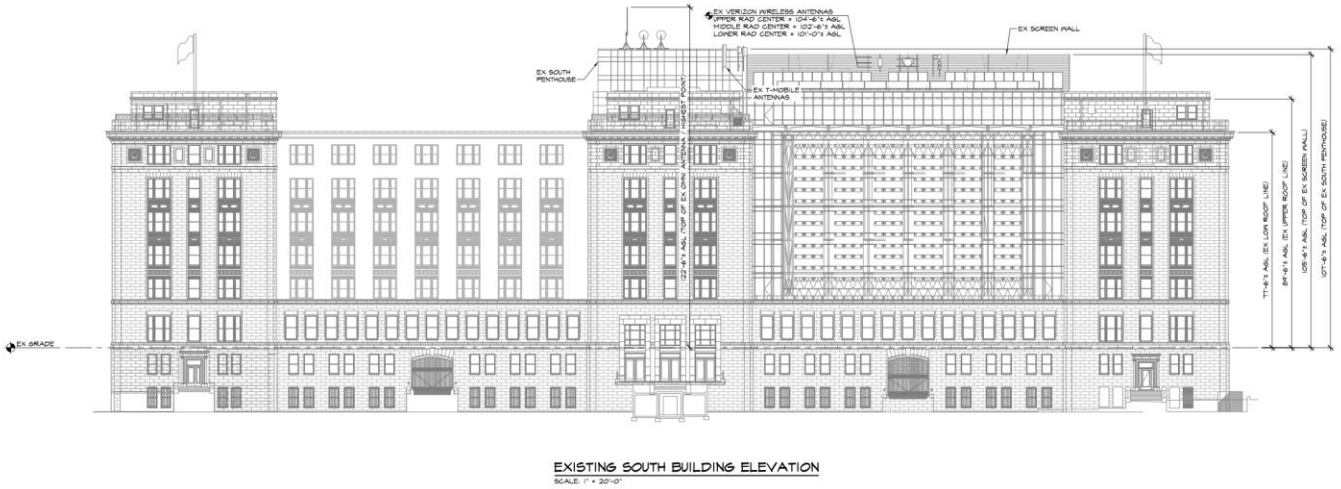



PROPOSED EAST BUILDING ELEVATION

SCALE: 1" = 20'-0"

# Building Elevation – South

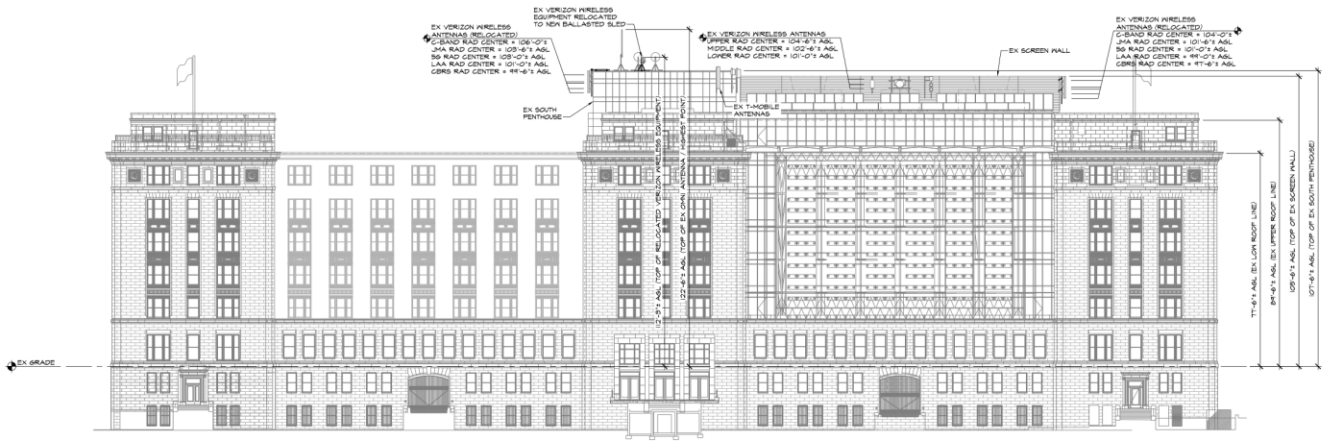
Existing




EXISTING SOUTH BUILDING ELEVATION

SCALE: 1" = 20'-0"

Proposed



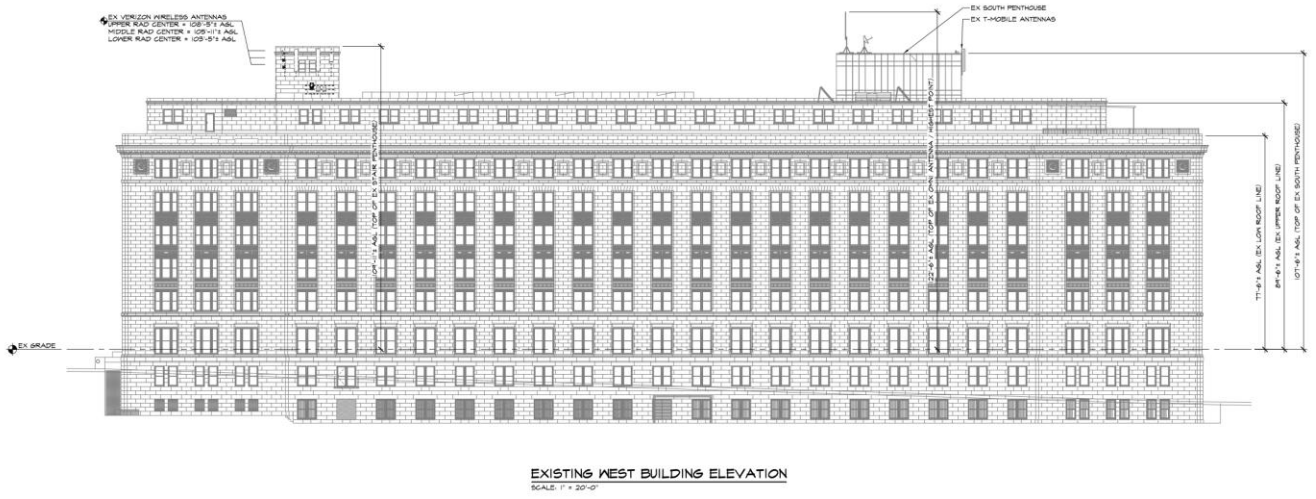

PROPOSED SOUTH BUILDING ELEVATION

SCALE: 1" = 20'-0"

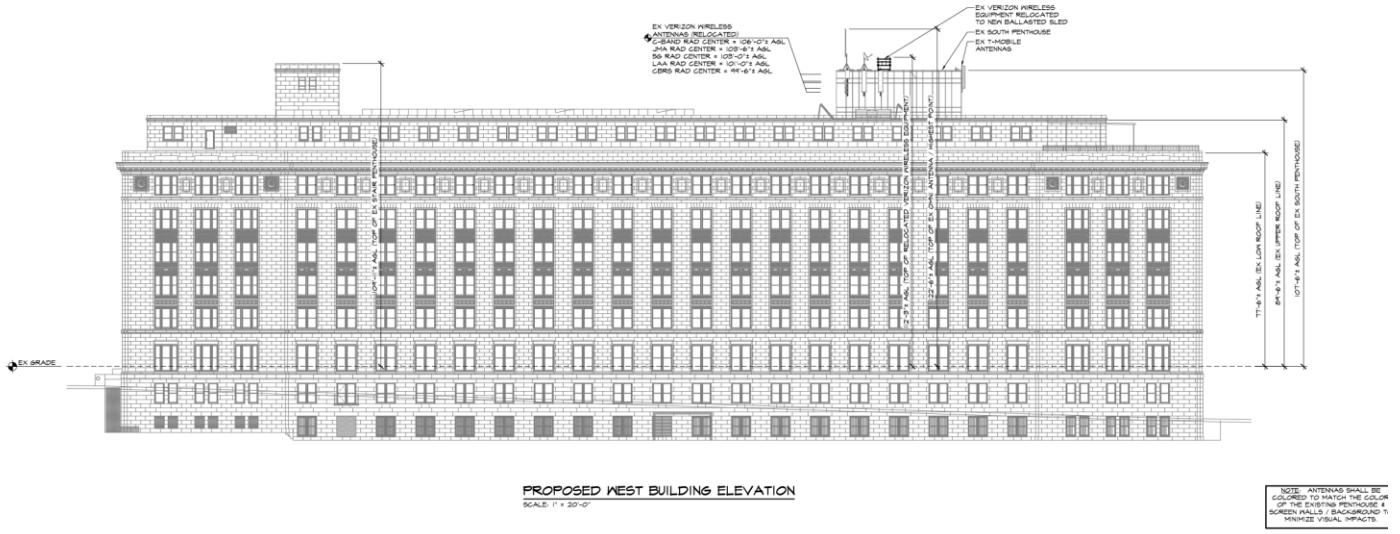
NOTE: ANTENNAS SHALL BE COLORED TO MATCH THE COLOR OF THE EXISTING PENTHOUSE & SCREEN WALLS / BACKGROUND TO MINIMIZE VISUAL IMPACTS.

# Building Elevation – West

Existing

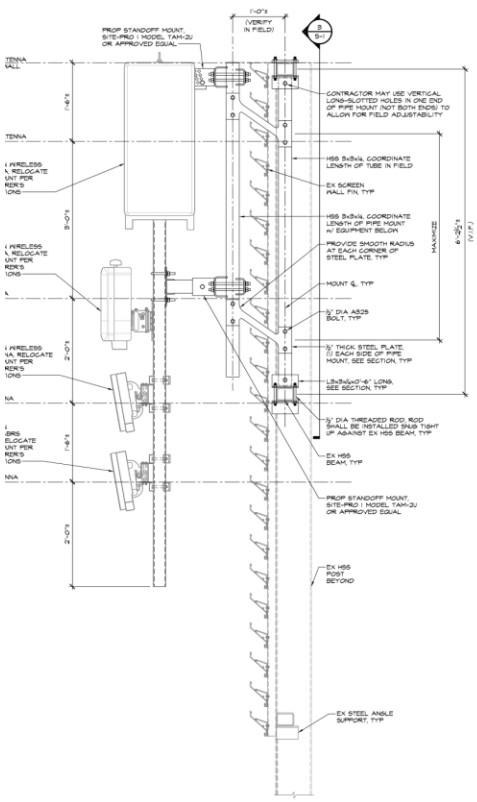



Proposed

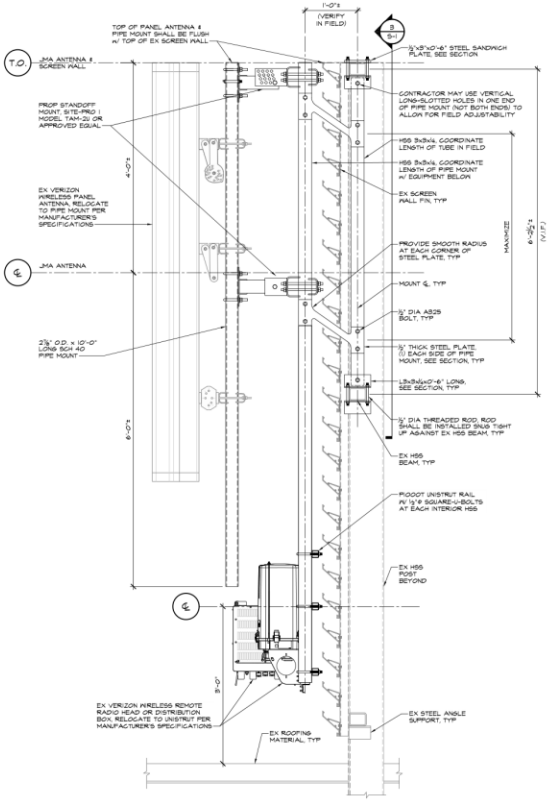



MRA existing and proposed elevations. Refer to the PCDs for dimensions and antenna rad centers.

# Alpha Mounting Details




LPHA SECTOR SAMSUNG ANTENNA INSTALLATION ON SCREEN WALL

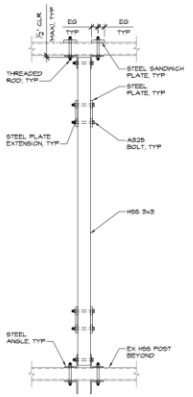



2 S-1 ALPHA SECTOR JMA ANTENNAS INSTALLATION ON SCREEN WALL

SCALE: 1" = 1'-0"

NOTES:

1. ALL ANTENNA MOUNT COMPONENTS SHALL RECEIVE A HOT DIPPED GALVANIZED FINISH PRIOR TO INSTALLATION.
2. CHARLES CABINET MUST BE INSTALLED BETWEEN SOLAR PANEL VERTICAL SUPPORTS. COORDINATE CHARLES CABINET INSTALLATION WITH EX SOLAR PANEL SUPPORTS IN FIELD.
3. ALL PANEL ANTENNA PIPE MOUNTS, STRUCTURAL STEEL, & SUPPORTING HARDWARE SHALL BE PAINTED TO MATCH EX BUILDING FACADE.

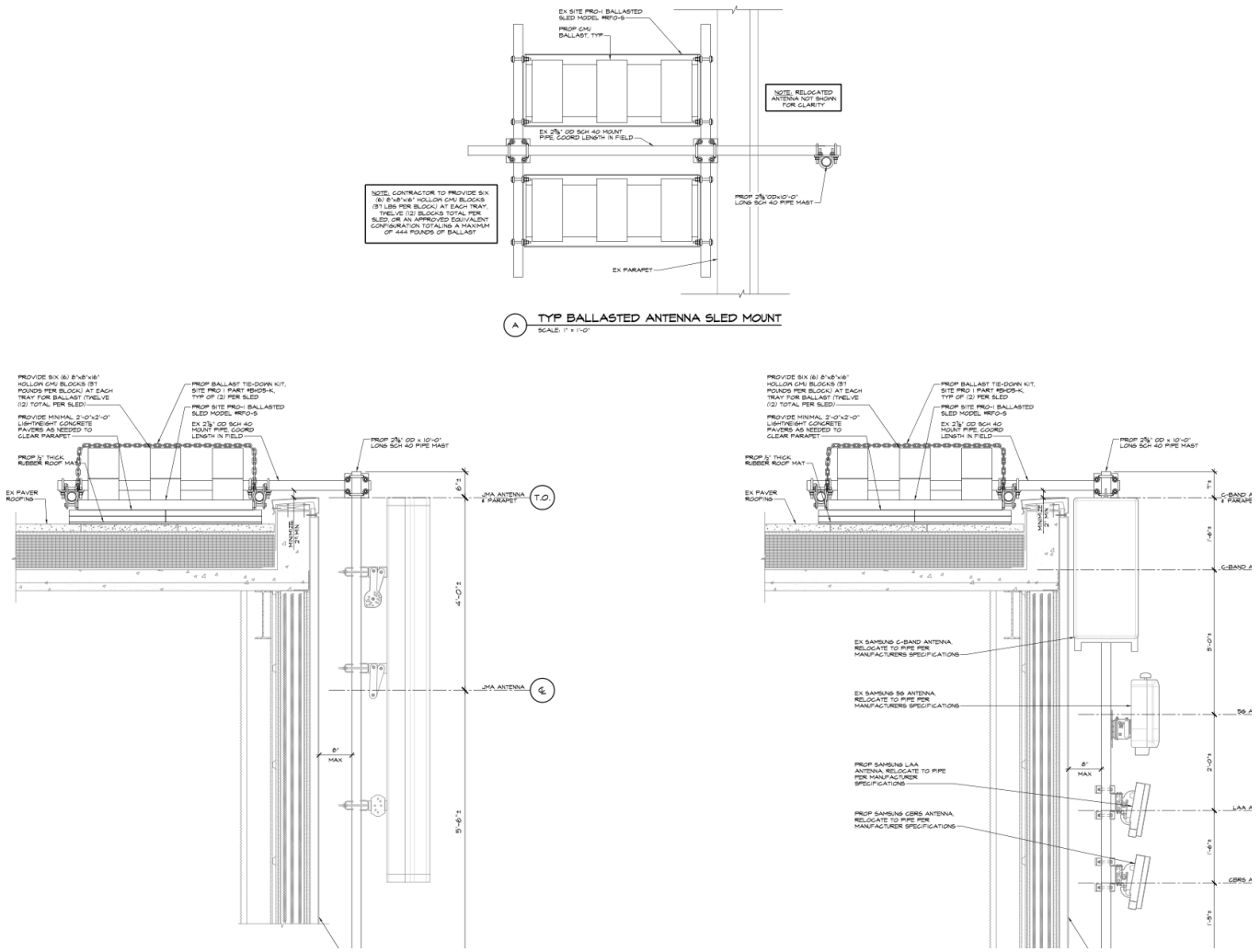



3 S-1 TYP ANTENNA MOUNT @ EX SCR

SCALE: 1" = 1'-0"

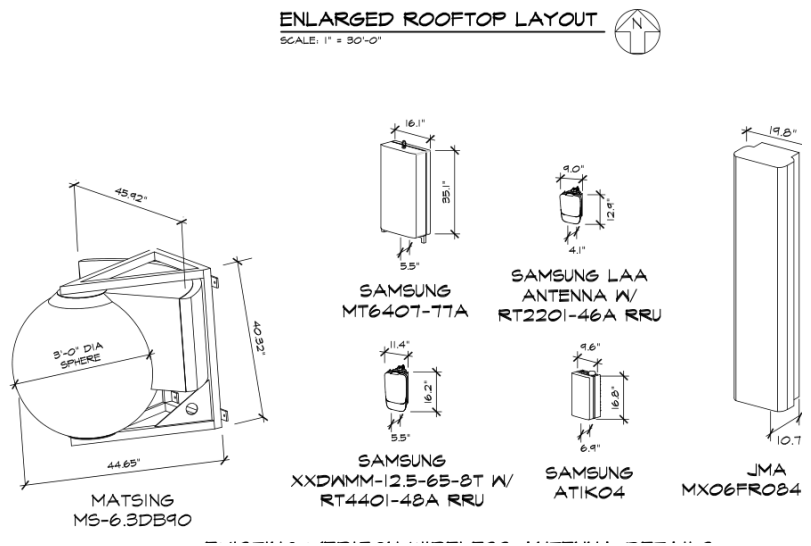
Non-penetrating frames clamp to the existing screen wall.

# Gamma Mounting Details




Low-profile ballasted antenna mounts and equipment sled. Equipment setback: 15 feet minimum.

# Existing Equipment to Remain or Relocate

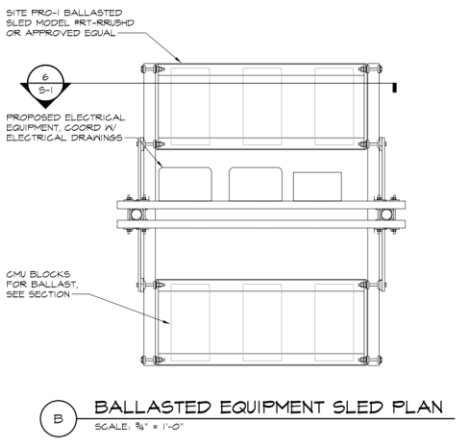


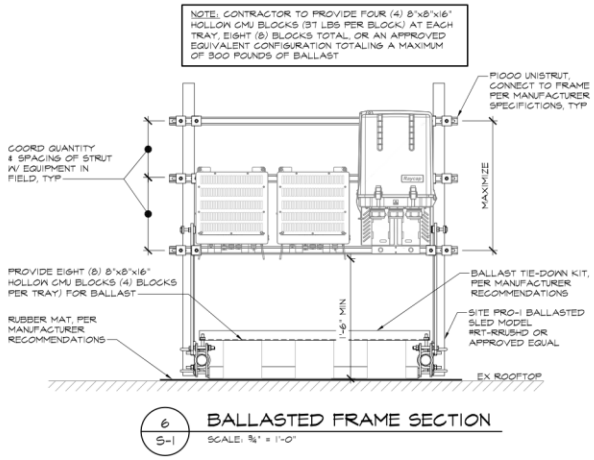

ANTENNA SCHEDULE

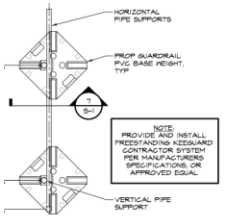
| SECTOR | POS | MANUFACTURER | MODEL # | AZIMUTH | RAD CENTER | ANTENNA TECHNOLOGY | STATUS |
|---|---|---|---|---|---|---|---|
| ALPHA | 1 (HIGHEST) | SAMSUNG | MT6407-77A | 90° | 104'-6"± | C-BAND | RELOCATED |
| | 1 (MIDDLE TOP) | SAMSUNG | VZ-ATIK04 | 90° | 101'-0"± | 5G (28 GHz) | RELOCATED |
| | 1 (MIDDLE BOTTOM) | SAMSUNG | LAA ANTENNA w/ RT2201-46A RRU | 90° | 99'-0"± | LAA | RELOCATED |
| | 1 (LOWEST) | SAMSUNG | DDXAMM-12.5-65-8T w/ RT4401-48A RRU | 90° | 97'-6"± | CBRS | RELOCATED |
| | 2 | JMA | MX06FR0840-02 | 90° | 101'-6"± | 700 / 850 | RELOCATED |
| | 3 | JMA | MX06FR0840-02 | 90° | 101'-6"± | AWS / PCS | RELOCATED |
| BETA | 1 | SAMSUNG | MT6407-77A | 180° | 102'-6"± | C-BAND | EXISTING |
| | 2 | MATSING | MS-6.3DB90-A | 180° | 102'-6"± | 700 / 850 / AWS / PCS | EXISTING |
| | 3 (HIGHEST) | SAMSUNG | VZ-ATIK04 | 160° | 104'-6"± | 5G (28 GHz) | EXISTING |
| | 3 (MIDDLE) | SAMSUNG | LAA ANTENNA w/ RT2201-46A RRU | 160° | 102'-6"± | LAA | EXISTING |
| | 3 (LOWEST) | SAMSUNG | DDXAMM-12.5-65-8T w/ RT4401-48A RRU | 160° | 101'-0"± | CBRS | EXISTING |
| GAMMA | 1 | JMA | MX06FR0840-02 | 270° | 103'-6"± | 700 / 850 | RELOCATED |
| | 2 | JMA | MX06FR0840-02 | 270° | 103'-6"± | AWS / PCS | RELOCATED |
| | 3 (HIGHEST) | SAMSUNG | MT6407-77A | 270° | 106'-0"± | C-BAND | RELOCATED |
| | 3 (MIDDLE TOP) | SAMSUNG | VZ-ATIK04 | 340° | 103'-0"± | 5G (28 GHz) | RELOCATED |
| | 3 (MIDDLE BOTTOM) | SAMSUNG | LAA ANTENNA w/ RT2201-46A RRU | 340° | 101'-0"± | LAA | RELOCATED |
| | 3 (LOWEST) | SAMSUNG | DDXAMM-12.5-65-8T w/ RT4401-48A RRU | 340° | 99'-6"± | CBRS | RELOCATED |

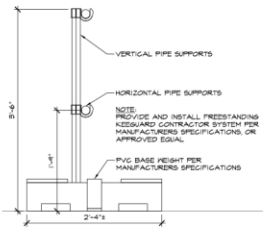
MRA C-2 antenna details and schedule. Alpha and Gamma relocate. Beta remains existing.

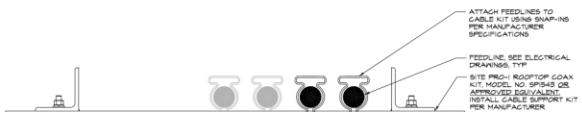
# Cable Supports and Safety Details

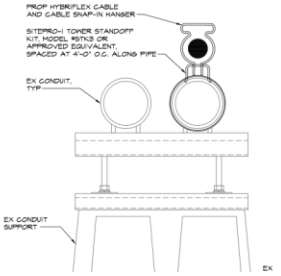


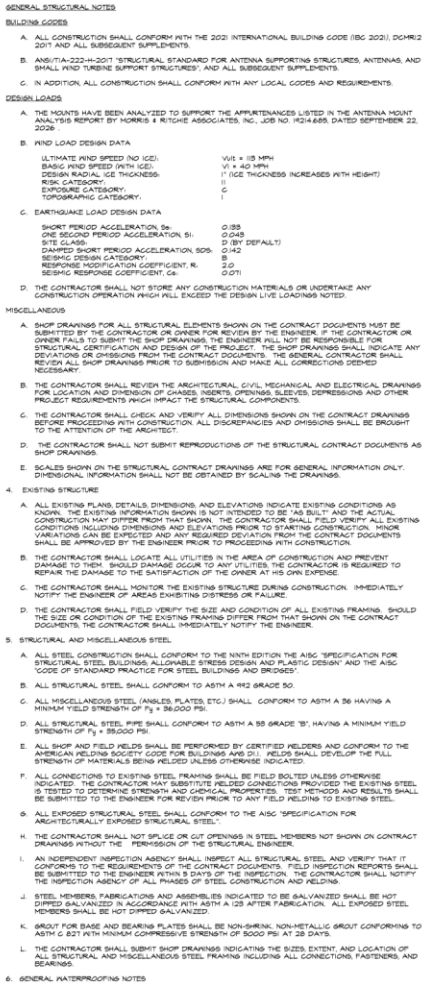



GENERAL STRUCTURAL NOTES

BUILDING CODES

A. ALL CONSTRUCTION SHALL CONFORM WITH THE 2021 INTERNATIONAL BUILDING CODE (IBC 2021), DCMR(2 2017 AND ALL SUBSEQUENT SUPPLEMENTS.

B. ANSI/TIA-222-H-2017 'STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES, ANTENNAS, AND SMALL WIND TURBINE SUPPORT STRUCTURES', AND ALL SUBSEQUENT SUPPLEMENTS.

C. IN ADDITION, ALL CONSTRUCTION SHALL CONFORM WITH ANY LOCAL CODES AND REQUIREMENTS.

DESIGN LOADS

A. THE MOUNTS HAVE BEEN ANALYZED TO SUPPORT THE APPURTENANCES LISTED IN THE ANTENNA MOUNT ANALYSIS REPORT BY MORRIS & RITCHIE ASSOCIATES, INC., JOB NO. 1#2141.685, DATED SEPTEMBER 22, 2028.

B. WIND LOAD DESIGN DATA

| | |
|---|---|
| ULTIMATE WIND SPEED (NO ICE): | Vult = 133 MPH |
| BASIC WIND SPEED (WITH ICE): | Vi = 40 MPH |
| DESIGN RADIAL ICE THICKNESS: | 1" (ICE THICKNESS INCREASES WITH HEIGHT) |
| RISK CATEGORY: | II |
| EXPOSURE CATEGORY: | C |
| TOPOGRAPHIC CATEGORY: | I |

C. EARTHQUAKE LOAD DESIGN DATA

| | |
|---|---|
| SHORT PERIOD ACCELERATION, Ss: | 0.133 |
| ONE SECOND PERIOD ACCELERATION, S1: | 0.045 |
| SITE CLASS: | D (BY DEFAULT) |
| DAMPED SHORT PERIOD ACCELERATION, SDS: | 0.142 |
| SEISMIC DESIGN CATEGORY: | B |
| RESPONSE MODIFICATION COEFFICIENT, R: | 3.0 |
| SEISMIC RESPONSE COEFFICIENT, Cs: | 0.071 |

D. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS OR UNDERTAKE ANY CONSTRUCTION OPERATION WHICH WILL EXCEED THE DESIGN LIVE LOADINGS NOTED.

MISCELLANEOUS

A. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR OR OWNER FOR REVIEW BY THE ENGINEER. IF THE CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIBLE FOR STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT. THE SHOP DRAWINGS SHALL INDICATE ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.

B. THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSION OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS WHICH IMPACT THE STRUCTURAL COMPONENTS.

C. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES AND OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

D. THE CONTRACTOR SHALL NOT SUBMIT REPRODUCTIONS OF THE STRUCTURAL CONTRACT DOCUMENTS AS SHOP DRAWINGS.

E. SCALES SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DIMENSIONAL INFORMATION SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

4. EXISTING STRUCTURE

A. ALL EXISTING PLANS, DETAILS, DIMENSIONS, AND ELEVATIONS INDICATE EXISTING CONDITIONS AS KNOWN. THE EXISTING INFORMATION SHOWN IS NOT INTENDED TO BE "AS BUILT" AND THE ACTUAL CONSTRUCTION MAY DIFFER FROM THAT SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING DIMENSIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. MINOR VARIATIONS CAN BE EXPECTED AND ANY REQUIRED DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

B. THE CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION AND PREVENT DAMAGE TO THEM. SHOULD DAMAGE OCCUR TO ANY UTILITIES, THE CONTRACTOR IS REQUIRED TO REPAIR THE DAMAGE TO THE SATISFACTION OF THE OWNER AT HIS OWN EXPENSE.

C. THE CONTRACTOR SHALL MONITOR THE EXISTING STRUCTURE DURING CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF AREAS EXHIBITING DISTRESS OR FAILURE.

D. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND CONDITION OF ALL EXISTING FRAMING. SHOULD THE SIZE OR CONDITION OF THE EXISTING FRAMING DIFFER FROM THAT SHOWN ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

5. STRUCTURAL AND MISCELLANEOUS STEEL

A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE NINTH EDITION THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

B. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A 992 GRADE 50.

C. ALL MISCELLANEOUS STEEL (ANGLES, PLATES, ETC.) SHALL CONFORM TO ASTM A 36 HAVING A MINIMUM YIELD STRENGTH OF $F_y$ = 36,000 PSI.

D. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 53 GRADE "B", HAVING A MINIMUM YIELD STRENGTH OF $F_y$ = 35,000 PSI.

E. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE INDICATED.

F. ALL CONNECTIONS TO EXISTING STEEL FRAMING SHALL BE FIELD BOLTED UNLESS OTHERWISE INDICATED. THE CONTRACTOR MAY SUBSTITUTE WELDED CONNECTIONS PROVIDED THE EXISTING STEEL IS TESTED TO DETERMINE STRENGTH AND CHEMICAL PROPERTIES. TEST METHODS AND RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ANY FIELD WELDING TO EXISTING STEEL.

G. ALL EXPOSED STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".

H. THE CONTRACTOR SHALL NOT SPLICE OR CUT OPENINGS IN STEEL MEMBERS NOT SHOWN ON CONTRACT DRAWINGS WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

I. AN INDEPENDENT INSPECTION AGENCY SHALL INSPECT ALL STRUCTURAL STEEL AND VERIFY THAT IT CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN 5 DAYS OF THE INSPECTION. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY OF ALL PHASES OF STEEL CONSTRUCTION AND WELDING.

J. STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES INDICATED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 123 AFTER FABRICATION. ALL EXPOSED STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

K. GROUT FOR BASE AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT CONFORMING TO ASTM C 827 WITH MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.

L. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING THE SIZES, EXTENT, AND LOCATION OF ALL STRUCTURAL AND MISCELLANEOUS STEEL FRAMING INCLUDING ALL CONNECTIONS, FASTENERS, AND BEARINGS.

6. GENERAL WATERPROOFING NOTES

MRA S-3 details for cable supports, safety provisions and the relocated equipment sled.