



Victoria Masse
Northeast Site Solutions
5 Melrose Drive,
Farmington CT 06032
860-306-2326
victoria@northeastsitesolutions.com

April 2, 2024

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
62 Youngs Apple Orchard Road (a/k/a 59 Youngs Apple Orchard Road), North Branford, CT 06472
Latitude: 41.42083300
Longitude: 72.74944444
T-Mobile Site#: CT11224A _Anchor

Dear Ms. Bachman:

T-Mobile currently maintains three (3) antennas at the 97-foot level of the existing 130-foot lattice tower located at 62 Youngs Apple Orchard Road (a/k/a 59 Youngs Apple Orchard Road), North Branford, CT 06472. The lattice tower is owned by Everest Infrastructure Partners and property is owned by Southern New England Telephone Company. T-Mobile now intends to add three (3) new 600/700/1900/2100 MHz antennas. The new antennas would be installed at the 97-foot level of the tower. T-Mobile also intends to make the following modifications.

Planned Modifications

Remove:

(6) 4415 Radios

Remove and Replace:

Install New:

(3) AIR6419 B41 Antenna

(3) 4460 B25+B66 Radio

Existing to Remain:

(3) APXVAALL24 Antenna

(3) 4449 B71+B85 Radio (Relocated)



There is no record of an original approval from the Siting Council for this facility. The Town of North Branford Zoning Enforcement Officer, Tom Hogarty, confirmed the town does not maintain a record of the original approval of the facility. This correspondence is enclosed.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Michael Downes, Town Manager for the Town of North Branford, David Perkins, Planning and Zoning Administrator / Town Planner as well as the property owner and the tower owner.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Victoria Masse

Victoria Masse
Mobile: 860-306-2326
Fax: 413-521-0558
Office: 5 Melrose Drive, Farmington CT 06032
Email: victoria@northeastsitesolutions.com



Attachments:

cc: Michael Downes, Town Manager
Town of North Branford
909 Foxon Road
North Branford CT 06471

David Perkins, Planning and Zoning Administrator / Town Planner
Town of North Branford
909 Foxon Road
North Branford CT 06471

Town of Wallingford Water Division
C/O Duff & Phelps/Telcom DIV, Property Owner
PO 2629
Addison, TX 75001

Everest, Tower Owners
100 Summer St. Suite 1600
Boston, MA 02110

Exhibit A

Original Facility Approval



Victoria Masse <victoria@northeastitesolutions.com>

Original Zoning Approval Request for 62 Youngs Apple Orchard Road

Eric Knapp <townplanner@townofnorthbranfordct.com>
To: Victoria Masse <victoria@northeastitesolutions.com>
Cc: Chuck Regulbuto <chuck@northeastitesolutions.com>

Thu, Apr 28, 2022 at 3:20 PM

Victoria, we looked back as far as our records would go.

Here is what I emailed Chuck Regulbuto back in October:

Dear Mr. Regulbuto,

You have inquired about the zoning status of the tower located at 62 Young Apple Orchard Road in North Branford, Connecticut. Specifically, you are seeking the zoning approval status of the original tower at that location.

My research has revealed that evidence of the original lease from the Town of Wallingford's Water Department to the Southern New England Telephone company was recorded on the Land Records of the Town of North Branford on December 31, 1957, at Volume 36, Page 463.

Zoning was adopted by the Town of North Branford effective August 1, 1962. Therefore, there would be no evidence of zoning approval for the tower, because there would have been no Zoning Regulations to comply with.

I trust that this response will prove satisfactory, but should you have additional questions, or require additional information, please do not hesitate to contact me.

Very truly yours,

Eric Knapp

Town Planner

Town of North Branford

North Branford, CT 06471

(475) 655-0425

From: Victoria Masse <victoria@northeastsitesolutions.com>
Sent: Thursday, April 28, 2022 3:14 PM
To: Eric Knapp <townplanner@townofnorthbranfordct.com>
Cc: Chuck Regulbuto <chuck@northeastsitesolutions.com>
Subject: Original Zoning Approval Request for 62 Youngs Apple Orchard Road

Good Afternoon,

I am reaching out on behalf of [REDACTED] regarding their proposed installation of antennas on an existing tower located at 62 Youngs Apple Orchard Road.

Currently we are working with [REDACTED] to file with the Connecticut Siting Council, part of the Siting Council's filing requirements is that we provide the original zoning approval of the tower build. It does not appear that the council has this on their website so that is why I am reaching out to you for this information.

I have attached the property card for your reference.

If you could review your records for any approvals of when this tower was originally approved to be built with the height that the tower was originally approved for that would be greatly appreciated.

Please let me know if you have any questions or need any additional information, I can be reached at 860-306-2326.

Thank you

--

Victoria Masse

Zoning & Permitting Specialist

Notary Public

Mobile: 860-306-2326

Office: 420 Main Street Unit 1 Box 2 Sturbridge, MA 01566

Email: victoria@northeastsitesolutions.com

Exhibit B

Property Card

62 YOUNGS APPLE ORCH

Location 62 YOUNGS APPLE ORCH

Mblu 81/ 22A/ //

Acct# 003798

Owner WALLINGFORD TOWN OF
WATER DIV

Assessment \$269,700

Appraisal \$385,300

PID 5127

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$85,900	\$299,400	\$385,300

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$60,100	\$209,600	\$269,700

Owner of Record

Owner WALLINGFORD TOWN OF WATER DIV

Co-Owner C/O DUFF & PHELPS / TELCOM DIV

Sale Price \$0

Certificate

Book & Page 0036/0463

Address PO 2629
ADDISON, TX 75001

Sale Date 12/31/1957

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
WALLINGFORD TOWN OF WATER DIV	\$0		0036/0463	12/31/1957

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes	
Field	Description
Style:	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	


Building Photo



(<https://images.vgsi.com/photos/NorthBranfordCTPhotos/\00\00\72\27.jpg>)

Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Cndtn	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Layout

 Building Layout

(https://images.vgsi.com/photos/NorthBranfordCTPhotos//Sketches/5127_?)

Building Sub-Areas (sq ft)	<u>Legend</u>
No Data for Building Sub-Areas	



Extra Features

Extra Features**Legend**

No Data for Extra Features

Land**Land Use**

Use Code 504V
Description PUB UTIL MDL-00
Zone R40
Neighborhood
Alt Land Appr Category No

Land Line Valuation

Size (Acres) 2.2
Frontage 0
Depth 0
Assessed Value \$209,600
Appraised Value \$299,400

Outbuildings**Outbuildings****Legend**

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN4	FENCE-8' CHAIN			300.00 L.F.	\$3,000	1
TW1	CELL TOWER			75.00 HEIGHT	\$28,900	1
ELCB	ELECTRONIC COMM BLDG			560.00 S.F.	\$54,000	1

Valuation History**Appraisal**

Valuation Year	Improvements	Land	Total
2019	\$82,300	\$290,700	\$373,000
2018	\$82,300	\$290,700	\$373,000

2017	\$82,300	\$151,300	\$233,600
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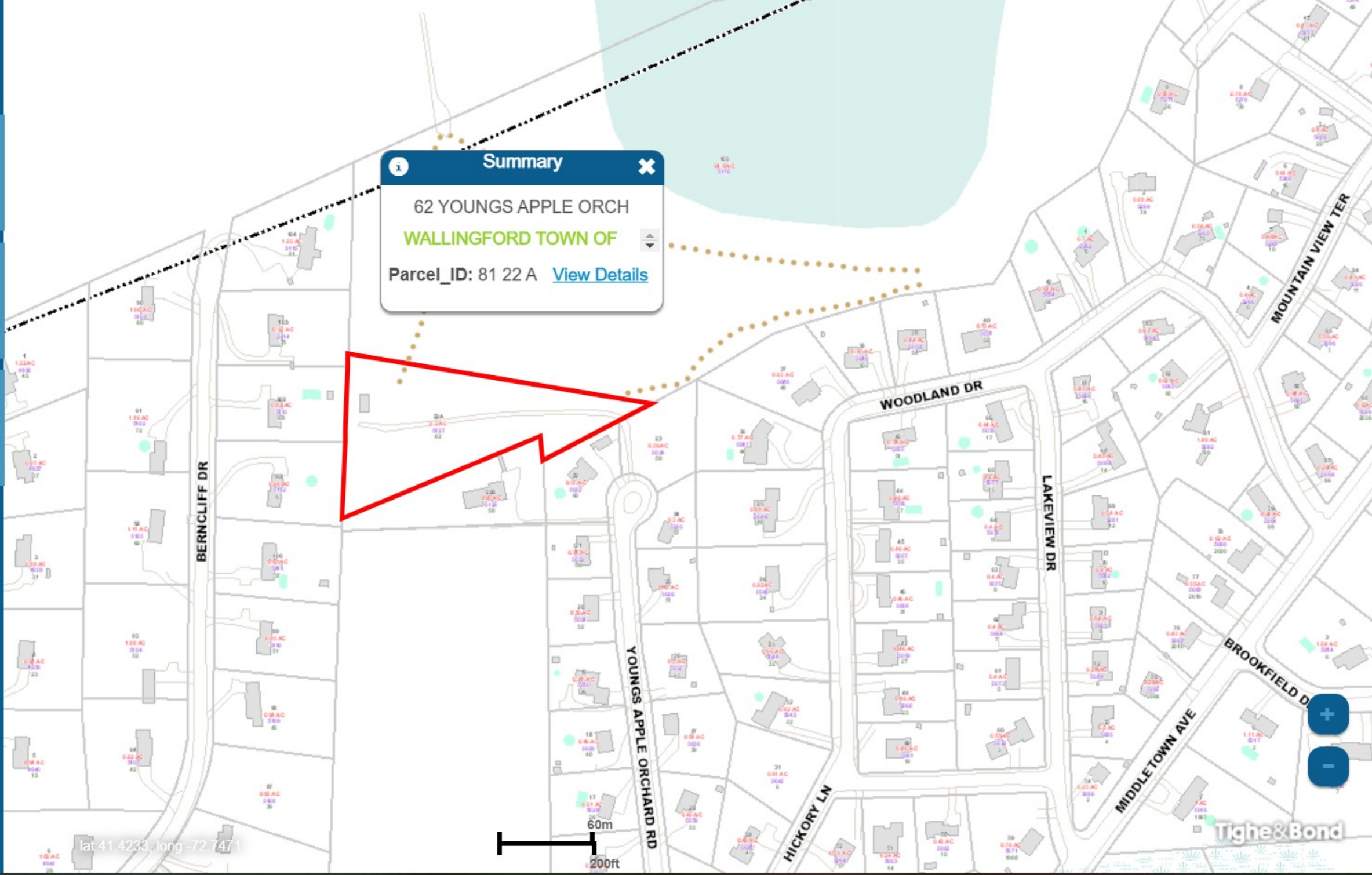
Assessment			
Valuation Year	Improvements	Land	Total
2019	\$57,600	\$203,500	\$261,100
2018	\$57,600	\$203,500	\$261,100
2017	\$57,600	\$105,900	\$163,500

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Summary ✕

62 YOUNGS APPLE ORCH
WALLINGFORD TOWN OF

Parcel_ID: 81 22 A [View Details](#)



lat 41.4233, long -72.7471



Tighe & Bond

Exhibit C

Construction Drawings



**T-MOBILE NORTHEAST LLC
ANCHOR**

**SITE #: CT11224A
SITE NAME: GUILFORD-1_1
59 YOUNGS APPLE ORCHARD RD.
NORTH BRANFORD, CT 06472
NEW HAVEN COUNTY**

CONSTRUCTION DRAWINGS
ALL SCALES RELATIVE TO 24"X36" PAGE SIZE



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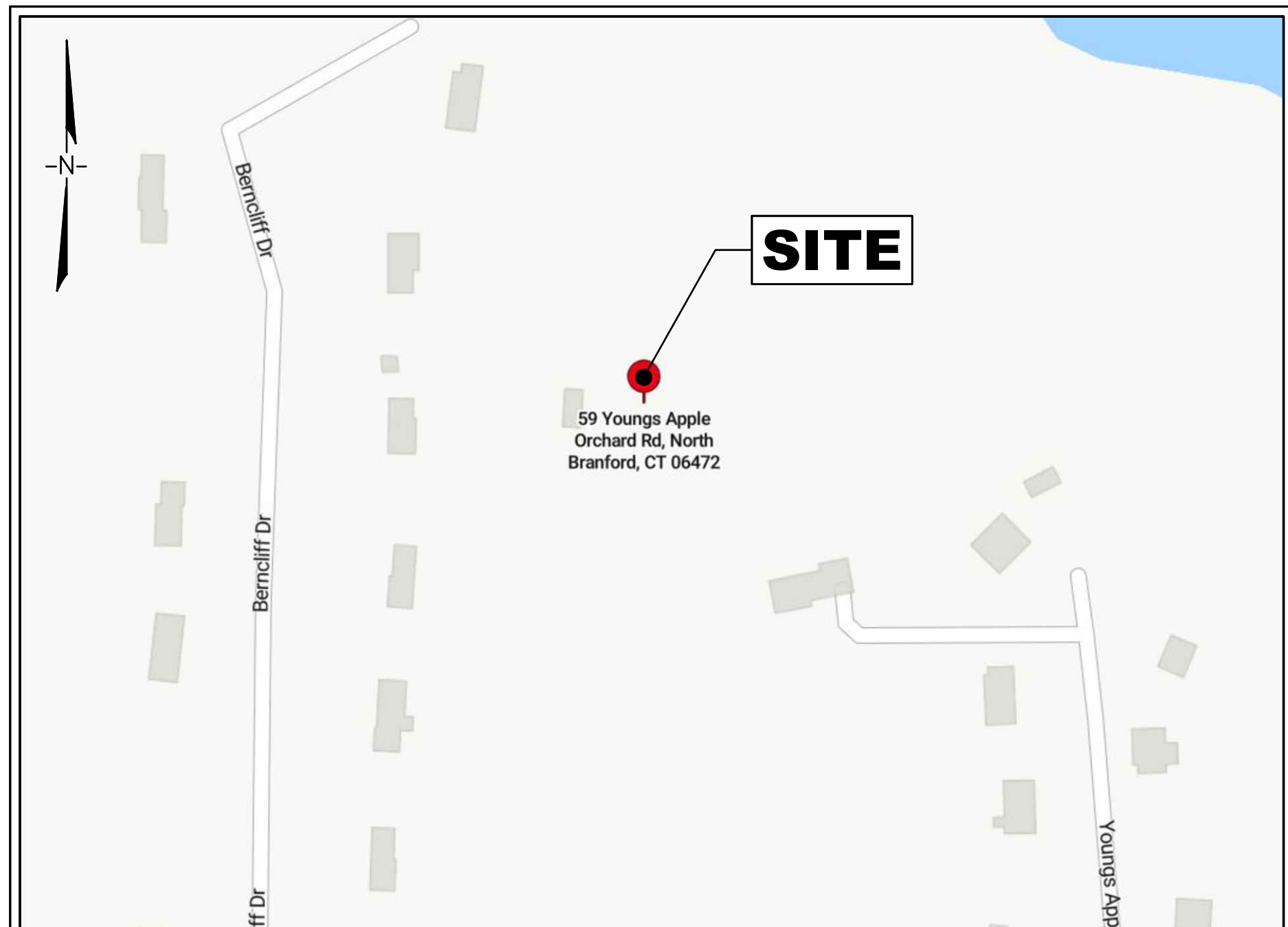
RAN CONFIGURATION: 67D5D998E 6160
A&L CONFIGURATION: 67D5998E_1xAIR+1OP+1QP

GENERAL NOTES

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY, AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

THE FACILITY IS AN UNMANNED, PRIVATE, AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND, THEREFORE, DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



KEY MAP
SCALE = N.T.S.

SITE LOCATION INFORMATION

SITE NUMBER: CT11224A
SITE ADDRESS: 59 YOUNGS APPLE ORCHARD ROAD, NORTH BRANFORD, CT 06472
JURISDICTION: TOWN OF NORTH BRANFORD
COUNTY: NEW HAVEN COUNTY
PARCEL ID: 81-23
PROPERTY OWNER: SOUTHERN NEW ENGLAND TEL CO., 401 MERRITT 7, NORWALK, CT 06851
APPLICANT: T-MOBILE NORTHEAST LLC, 35 GRIFFIN ROAD SOUTH, BLOOMFIELD, CT 06002

SITE CHARACTERISTICS

LATITUDE: 41.421013°
LONGITUDE: -72.749453°
STRUCTURE TYPE: SELF SUPPORT TOWER
LOCATION OF PROPOSED EQUIPMENT: EXISTING EQUIPMENT ROOM
STRUCTURE HEIGHT: ±129'-0" AGL
ANTENNA (RAD CENTER): ALPHA - ±94'-0" AGL, BETA - ±94'-0" AGL, GAMMA - ±94'-0" AGL

SPECIAL STRUCTURAL NOTES

STRUCTURE OWNER SHALL BE RESPONSIBLE FOR GLOBAL STRUCTURAL STABILITY ANALYSIS OF EXISTING SUPPORT STRUCTURE. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE ALL REQUIRED STRUCTURAL MODIFICATIONS, RE-BUNDLING OF COAXIAL CABLES OR OTHER SPECIAL MODIFICATIONS AS OUTLINED THEREIN.

STRUCTURAL DESIGNS AND DETAILS FOR ANTENNA MOUNTS COMPLETED BY ELEVATED ENGINEERING, PLLC ON BEHALF OF T-MOBILE ARE INCLUSIVE OF THE ENTIRE ANTENNA SUPPORT STRUCTURE (GLOBAL STRUCTURAL STABILITY ANALYSIS BY OTHERS), EXISTING PLATFORM, EXISTING ANTENNA MOUNTS, AND ALL OTHER ASPECTS OF THE STRUCTURE THAT WILL SUPPORT THE T-MOBILE EQUIPMENT DEPLOYMENT AS DEPICTED HEREIN.

ELEVATED ENGINEERING, PLLC ASSUMES THAT THE STRUCTURE IS PROPERLY CONSTRUCTED AND MAINTAINED. ALL STRUCTURAL MEMBERS AND THEIR CONNECTIONS ARE ASSUMED TO BE IN GOOD CONDITION AND ARE FREE FROM DEFECTS WITH NOT DETERIORATION TO IT'S MEMBER CAPACITIES.

UNDERGROUND SERVICE ALERT

APPROVALS

PROJECT MANAGER	DATE
CONSTRUCTION	DATE
RF ENGINEERING	DATE
ZONING / SITE ACQUISITION	DATE
OPERATIONS	DATE
OWNER	DATE

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	COMPOUND PLAN & ELEVATION
A-2	EQUIPMENT PLANS & ANTENNA PLANS
A-3	DETAILS
S-1	GAMMA SECTOR
E-1	GROUNDING DETAILS & NOTES

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5		
4		
3	03/20/24	REVISED RAD CENTER
2	02/26/24	ISSUED AS FINAL
1	02/21/24	PER FAILING ANALYSIS
0	02/08/24	INITIAL SUBMISSION

DRAWN BY: CJT
CHECKED BY: NDB
SCALE: AS NOTED
JOB NO: 24003-NSS

INFORMATION ON THIS SET OF DRAWINGS IS NOT FOR OFFICIAL USE UNLESS ACCOMPANIED BY THE STAMPED SEAL & SIGNATURE OF A PROFESSIONAL ENGINEER

NICHOLAS D. BARILE
PROFESSIONAL ENGINEER, CT LIC. No. 28643

**SITE ID: CT11224A
GUILFORD-1_1
59 YOUNGS APPLE ORCHARD RD.
NORTH BRANFORD, CT 06472
NEW HAVEN COUNTY**

DRAWING TITLE:

TITLE SHEET

DRAWING SHEET:

T-1

GENERAL NOTES

- FOR THE PURPOSE OF THE CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTORS – TO BE DETERMINED
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE PROVIDED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSED AND ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT THE EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTORS EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIAL SUCH AS COAXIAL CABLE AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHED AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- CONSTRUCTION SHALL COMPLY WITH UMS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES."
- SUBCONTRACTORS SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

- THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

19. APPLICABLE BUILDING CODES:

SUBCONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

- BUILDING CODE: 2022 CONNECTICUT STATE BUILDING CODE
- ELECTRICAL CODE: NFPA 70 NATIONAL ELECTRICAL CODE, 2017 EDITION
- LIGHTNING CODE: NFPA 780-2014 LIGHTNING PROTECTION CODE

SUBCONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE FOR STEEL CONSTRUCTION (AISC)
- MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL
- ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS A CONFLICT BETWEEN A GENERAL REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ELECTRICAL & GROUNDING NOTES

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO LIGHTNING PROTECTION AND AS POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO THE BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATING (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- ALL NEW STRUCTURE WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATIONS INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- RIGID STEEL CONDUITS SHALL BE GROUNDED AT BOTH ENDS.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL ROOM AND PROPOSED CELL SITE POWER PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROPOSED CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON DRAWING A-1. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- GROUNDING SHALL COMPLY WITH NEW ART. 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO MGB SHALL BE ARRANGED IN THREE MAIN GROUPS: SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO AND POWER PANEL GROUND); (GROUNDING ELECTRODE RING OR BUILDING STEEL); NON-SURGING OBJECTS (EGB GROUND IN BTS UNIT)
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- BOND ANTENNA MOUNTING BRACKETS. COAXIAL CABLE GROUND KITS AND ALNA TO EGB PLACES NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGB'S AND MGB TO WATER MAIN.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION.
- BOND ANY METAL OBJECTS WITHIN 7 FEET OF PROPOSED EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- VERIFY PROPOSED SERVICE UPGRADE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		

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ENGINEERING

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7		
6		
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4		
3	03/20/24	REVISED RAD CENTER
2	02/26/24	ISSUED AS FINAL
1	02/21/24	PER FAILING ANALYSIS
0	02/08/24	INITIAL SUBMISSION

REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY: CJT

CHECKED BY: NDB

SCALE: AS NOTED

JOB NO: 24003-NSS

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PROFESSIONAL ENGINEER, CT LIC. No. 28643

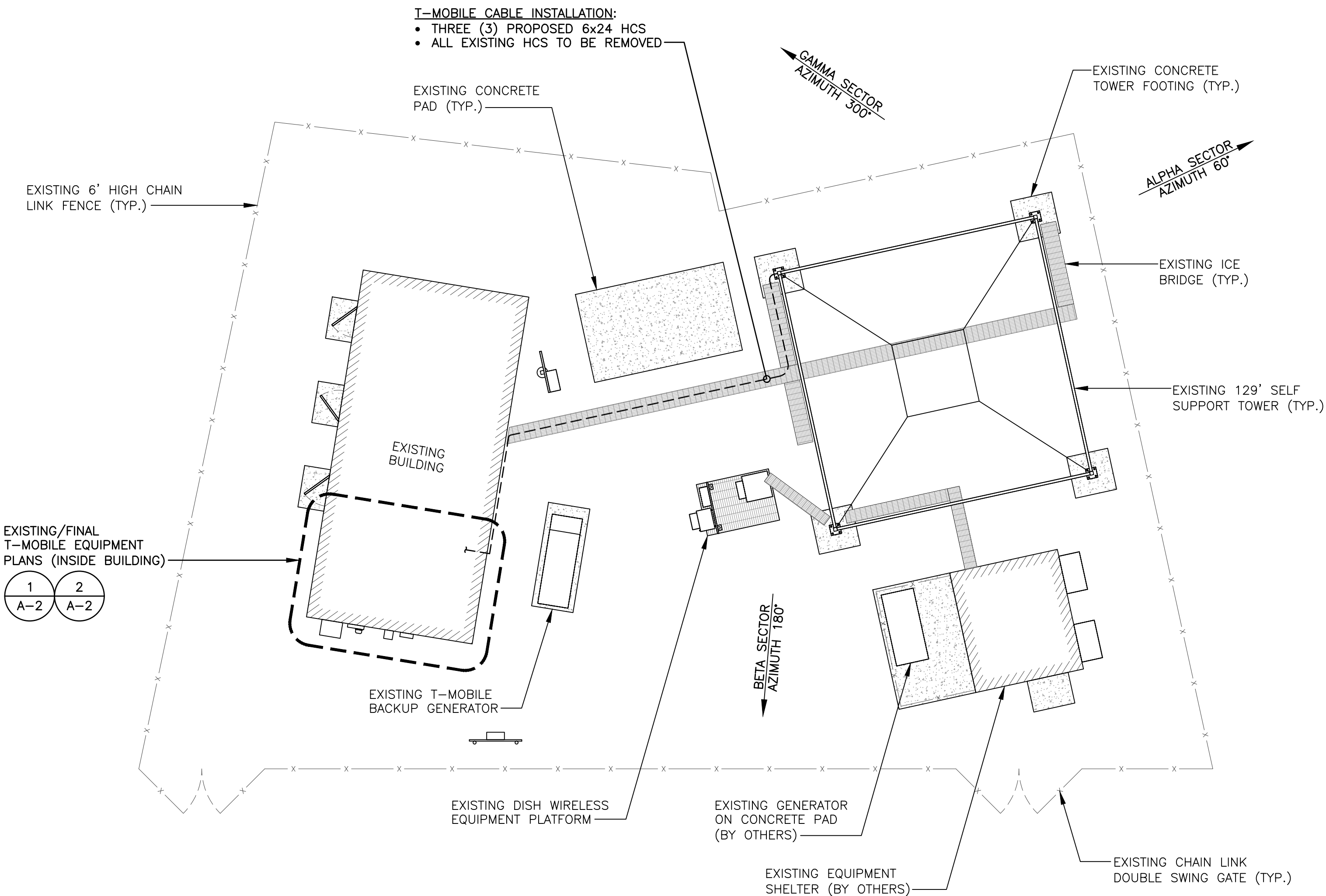
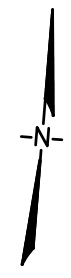
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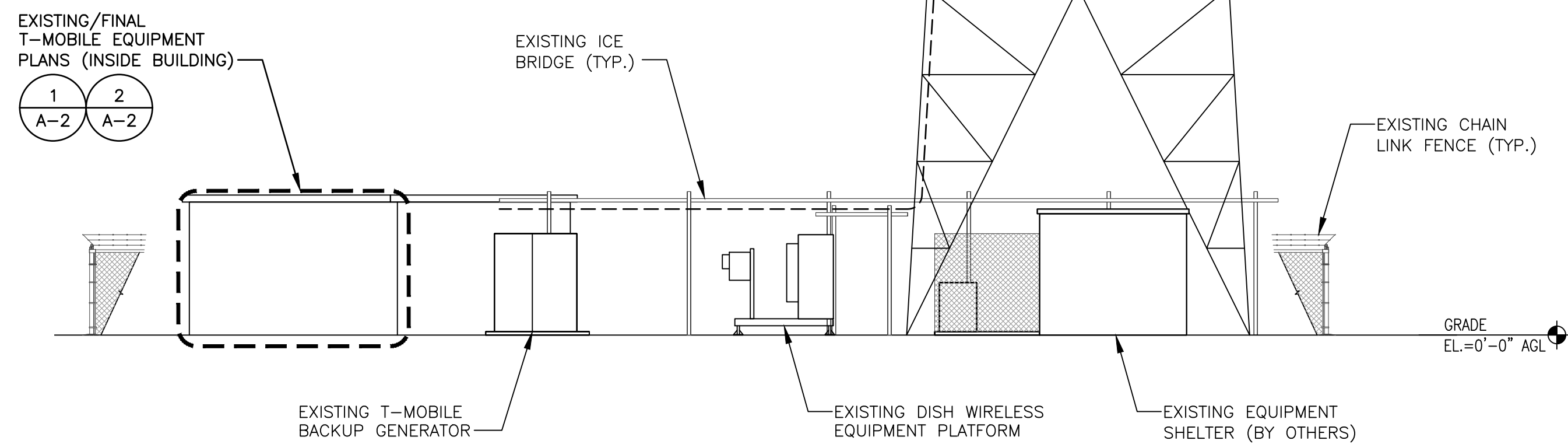
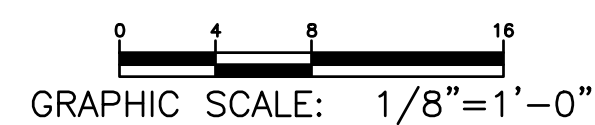
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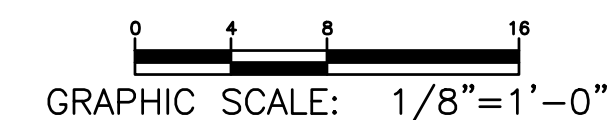
GN-1



1 COMPOUND PLAN
A-1 SCALE: 1/8"=1'-0"

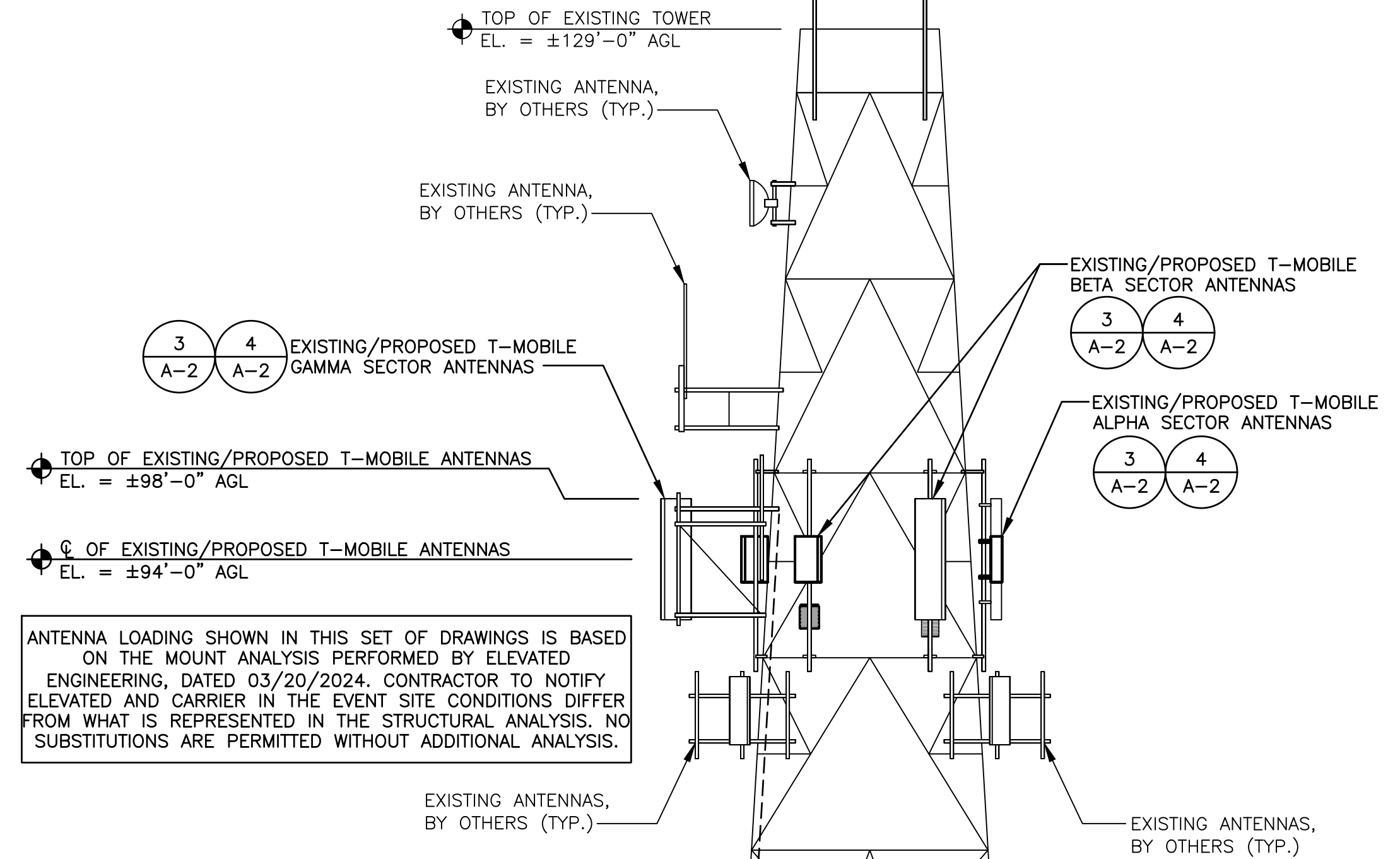


2 ELEVATION
A-1 SCALE: 1/8"=1'-0"



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STRUCTURAL ANALYSIS OF THE TOWER SHALL BE COMPLETED (BY OTHERS) PRIOR TO INSTALLATION OF PROPOSED UPGRADES



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DRAWING TITLE:

COMPOUND PLAN & ELEVATION

DRAWING SHEET:

A-1

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Nicholas D. Barile
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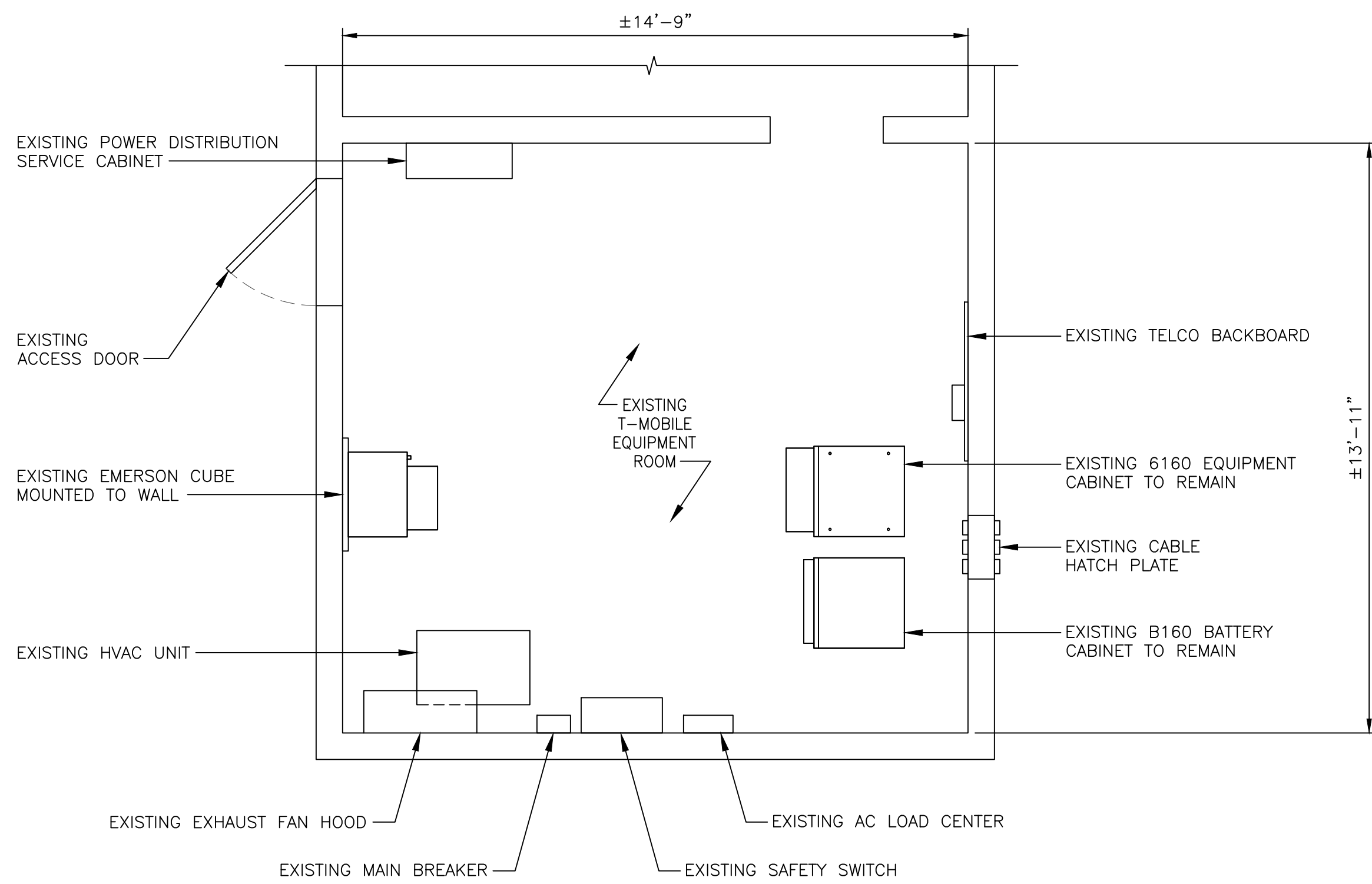
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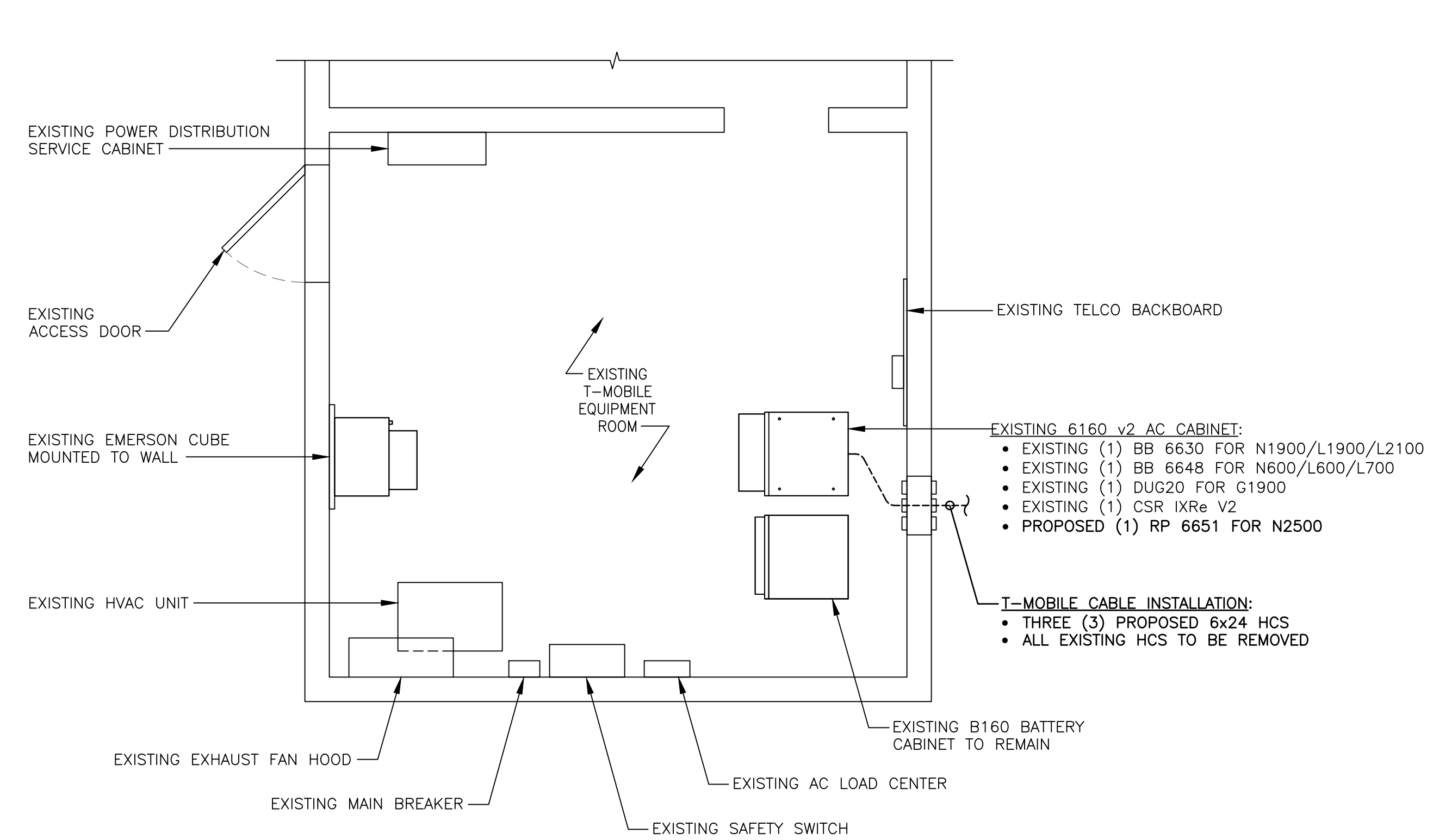
DRAWING TITLE:
EQUIPMENT PLANS & ANTENNA PLANS

DRAWING SHEET:

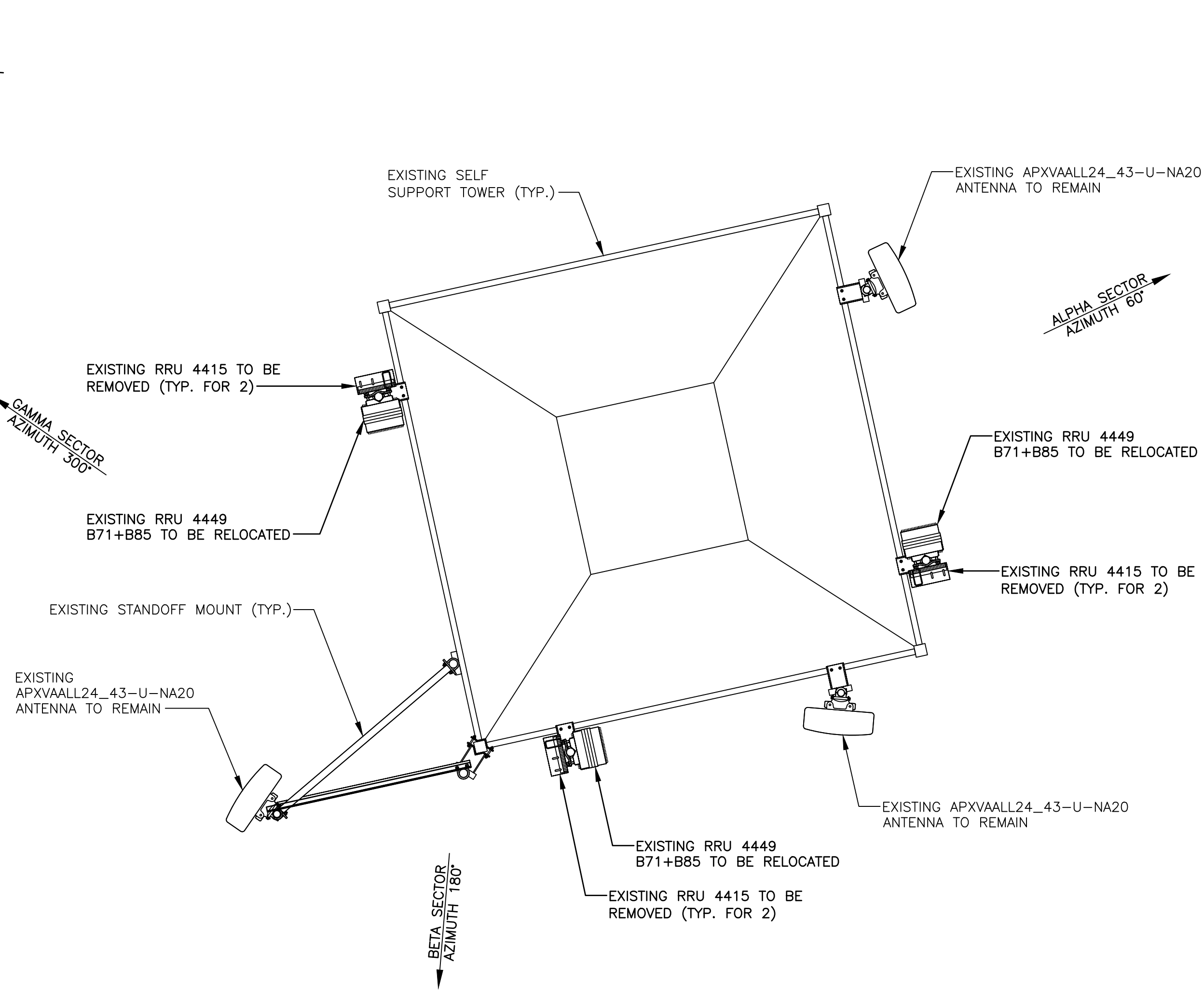
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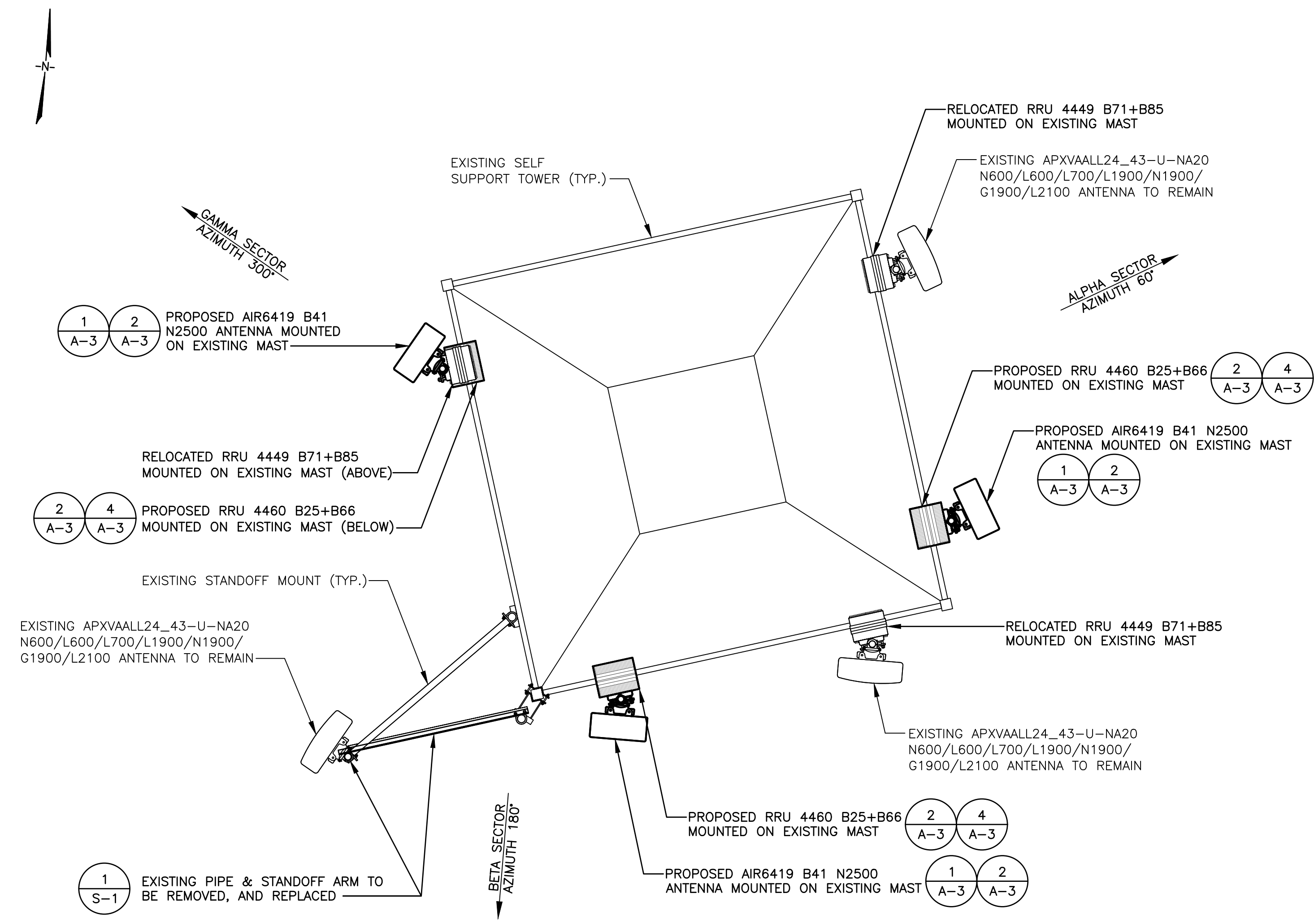
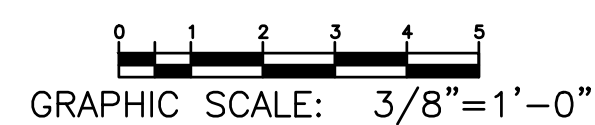
1 EXISTING EQUIPMENT PLAN
A-2 SCALE: 3/8"=1'-0"



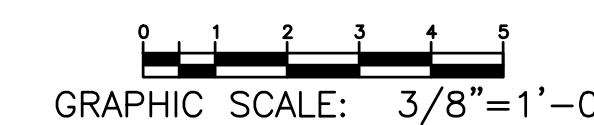
2 FINAL EQUIPMENT PLAN
A-2 SCALE: 3/8"=1'-0"



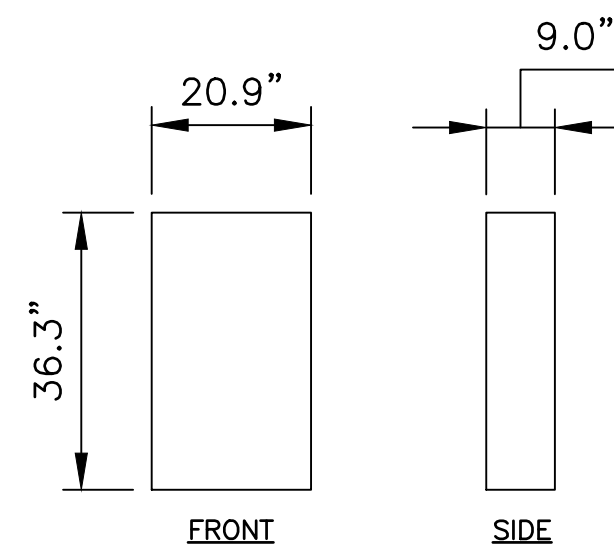
3 EXISTING ANTENNA PLAN
A-2 SCALE: 3/8"=1'-0"



4 PROPOSED ANTENNA PLAN
A-2 SCALE: 3/8"=1'-0"

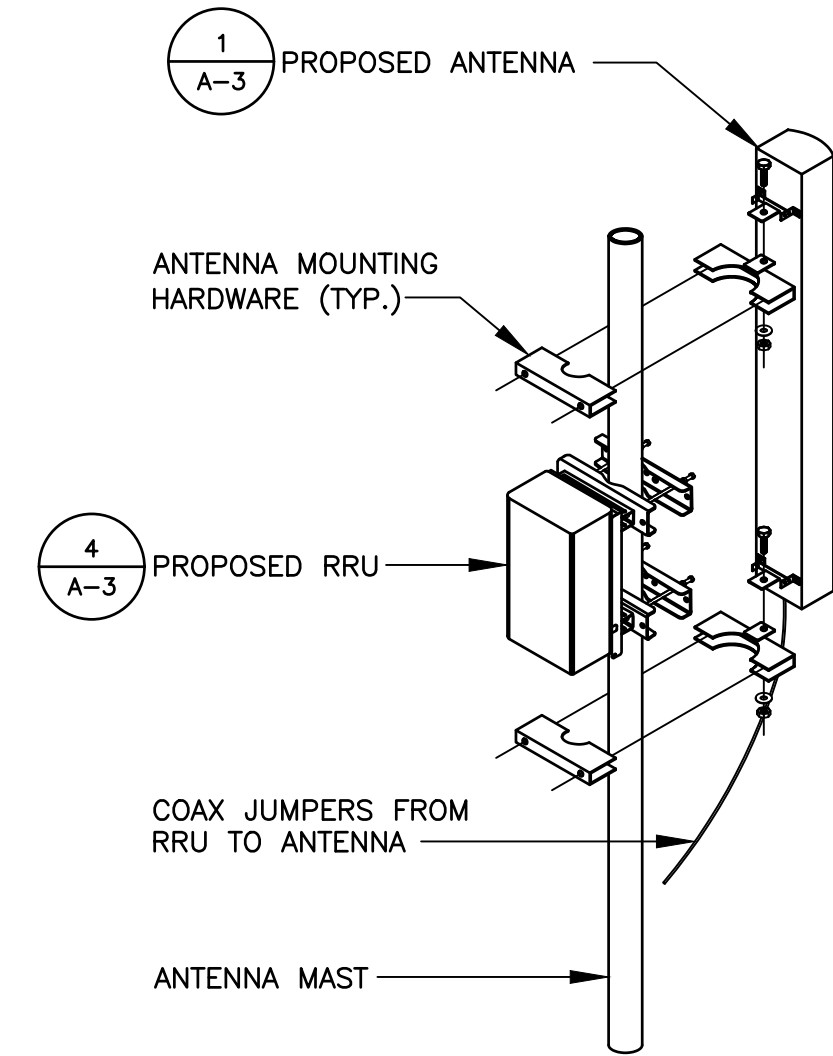


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MECHANICAL SPECIFICATIONS
 OVERALL HEIGHT: 36.3 IN.
 WIDTH: 20.9 IN.
 DEPTH: 9.0 IN.
 WEIGHT INCLUDING BRACKETS: 83.3 LBS

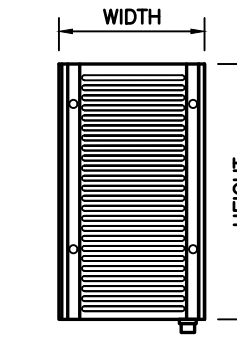
1 ERICSSON: AIR6419 B41
 A-3 SCALE: N.T.S.



2 TYPICAL ANTENNA INSTALLATION DETAIL
 A-3 SCALE: N.T.S.

TO BE PROVIDED

3 ANTENNA & COAX CABLE SCHEMATIC
 A-3 SCALE: N.T.S.



RRH	HEIGHT	WIDTH	DEPTH	WEIGHT
RADIO 4460 B25+B66	17.0"	15.1"	11.9"	104 LBS.

4 RRU DETAILS
 A-3 SCALE: N.T.S.

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CHECKED BY: NDB
SCALE: AS NOTED
JOB NO: 24003-NSS

ANTENNA INFORMATION															
SECTOR	POSITION (FROM REAR LEFT TO RIGHT)	EXISTING		PROPOSED											
		MODEL	QTY.	MODEL	ANT. C.L.	SECTOR MARK	QTY.	E-TILT	M-TILT	RRU MODEL/QUANTITY	DIPLEXER/COMBINERS	TMA	COAX/FIBER QUANTITY	COAX/FIBER SIZE	COAX/FIBER LENGTH
ALPHA 60°	R1	APXVAALL24_43-U-NA20	1	APXVAALL24_43-U-NA20	94'-0"	N600/L600/ L700/L1900/ N1900/G1900/ L2100	1	2/2/0/0	0	(1) 4449 B71+B85 (1) 4460 B25+B66	-	-	8 4	COAX JUMPER FIBER JUMPER	10' 15'
	R2	-	1	AIR6419 B41	94'-0"	N2500	1	0/0	0	-	-	-	1 4	6x24 HCS FIBER JUMPER	185' 15'
BETA 180°	W1	APXVAALL24_43-U-NA20	1	APXVAALL24_43-U-NA20	94'-0"	N600/L600/ L700/L1900/ N1900/G1900/ L2100	1	2/2/0/0	0	(1) 4449 B71+B85 (1) 4460 B25+B66	-	-	8 4	COAX JUMPER FIBER JUMPER	10' 15'
	W2	-	1	AIR6419 B41	94'-0"	N2500	1	0/0	0	-	-	-	1 4	6x24 HCS FIBER JUMPER	185' 15'
GAMMA 300°	B1	APXVAALL24_43-U-NA20	1	APXVAALL24_43-U-NA20	94'-0"	N600/L600/ L700/L1900/ N1900/G1900/ L2100	1	2/2/0/0	0	(1) 4449 B71+B85 (1) 4460 B25+B66	-	-	8 4	COAX JUMPER FIBER JUMPER	10' 15'
	B2	-	1	AIR6419 B41	94'-0"	N2500	1	0/0	0	-	-	-	1 4	6x24 HCS FIBER JUMPER	185' 15'

AT TIME OF CONSTRUCTION, CONTRACTOR TO VERIFY AZIMUTHS OF EXISTING ANTENNAS. IF DIFFERENT FROM RFDS, PLEASE NOTIFY THE RF ENGINEER AND CONSTRUCTION MANAGER WITH ACTUAL AZIMUTH TO ENSURE T-MOBILE'S DATABASE IS ACCURATE AND UP-TO-DATE.

ANTENNA LOCATIONS TO BE VERIFIED IN FIELD. RFDS TO BE REDLINED ACCORDINGLY.

INFORMATION SHOWN PROVIDED ON T-MOBILE RFDS DATED 01/25/24.

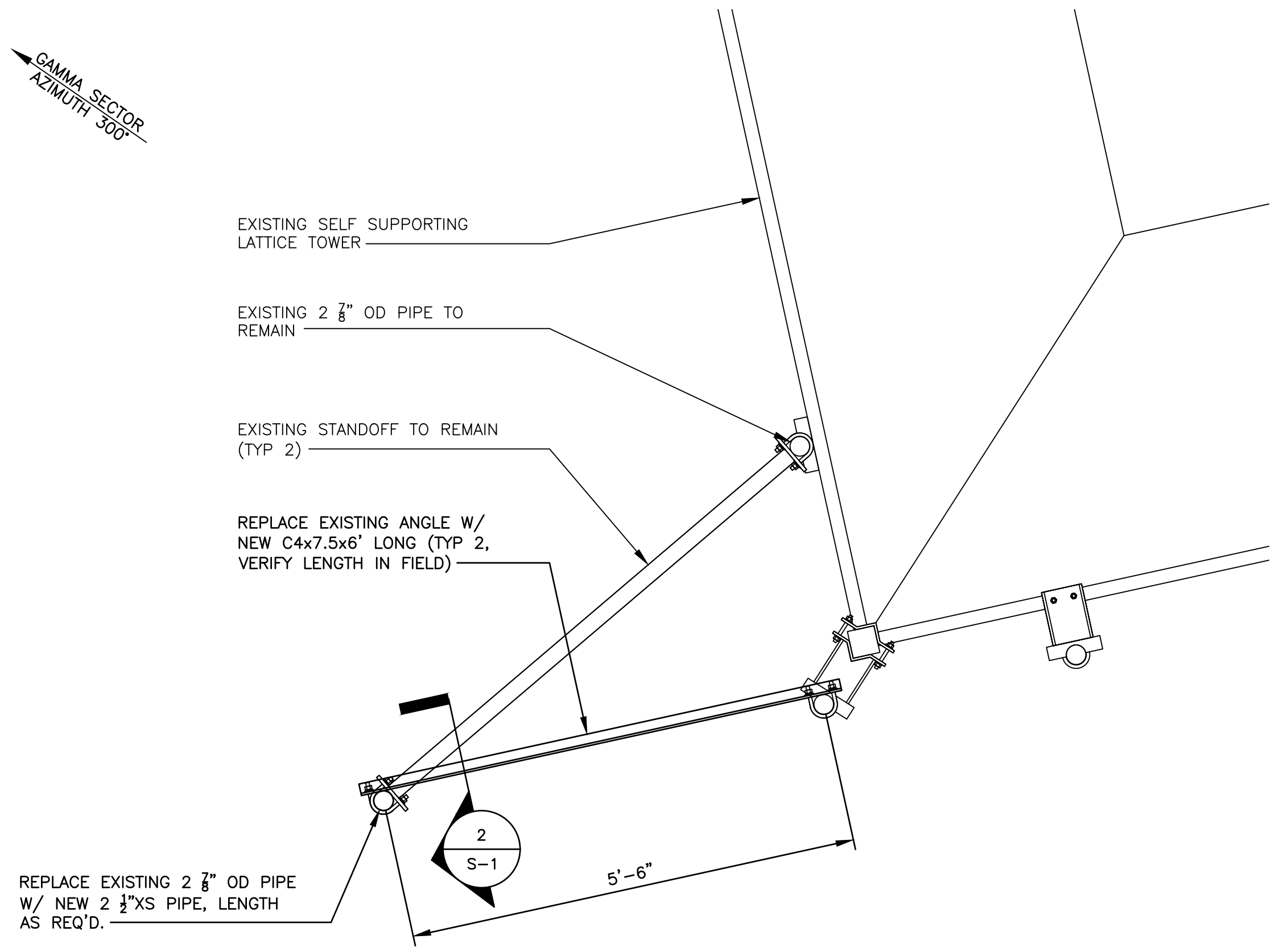
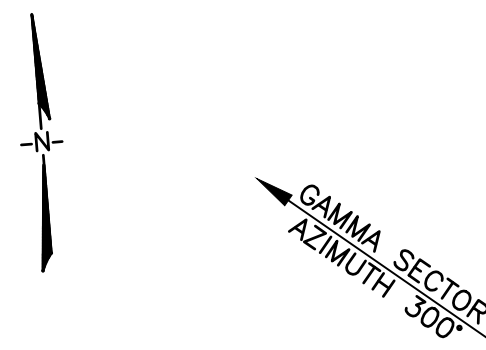
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 PROFESSIONAL ENGINEER, CT LIC. No. 28643

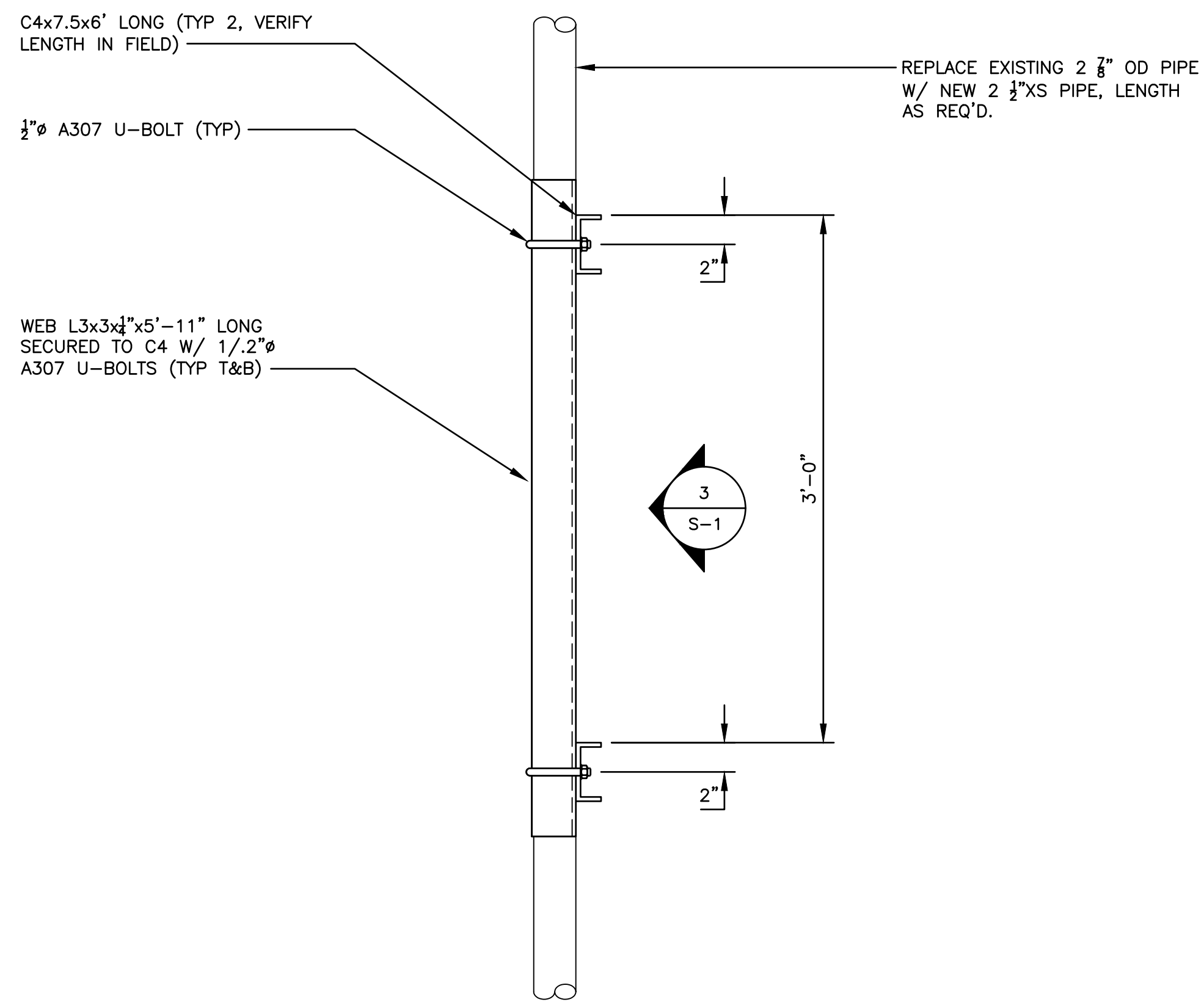
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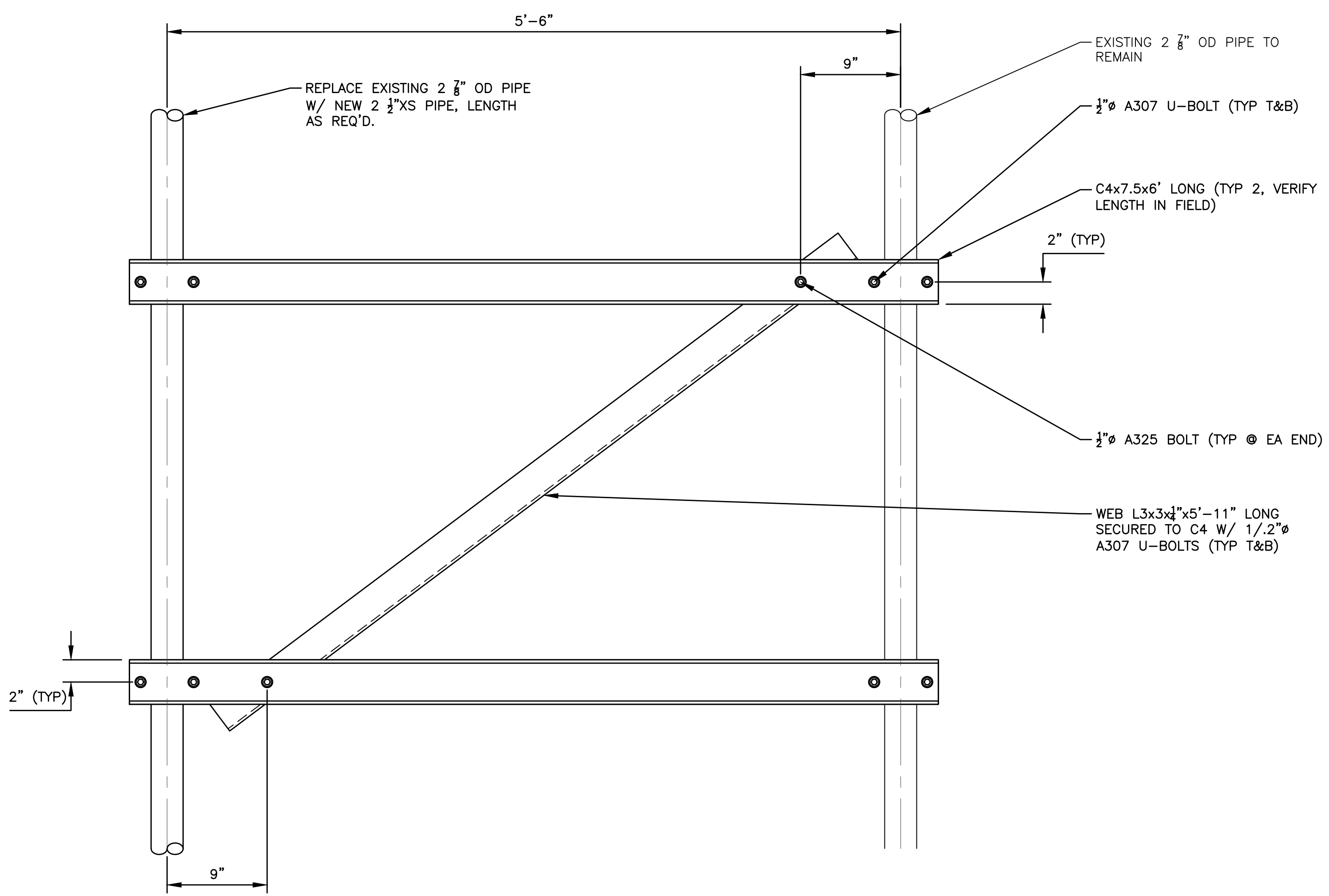
DRAWING SHEET:
 A-3



1 GAMMA SECTOR STANDOFF ARM PLAN VIEW
S-1 SCALE: 3/8"=1'-0"



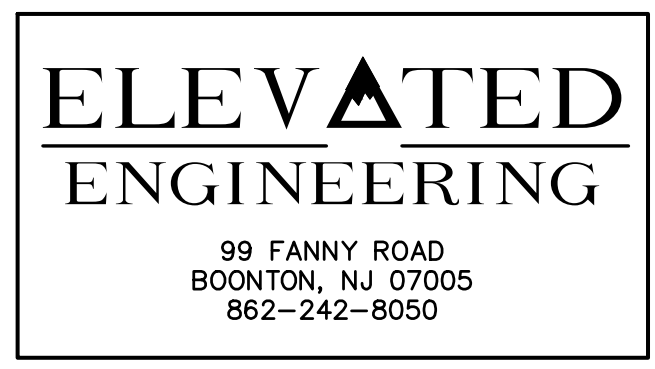
2 GAMMA SECTOR PARTIAL SECTION VIEW
S-1 SCALE: 3/8"=1'-0"



3 GAMMA SECTOR PARTIAL ELEVATION VIEW
S-1 SCALE: 3/8"=1'-0"

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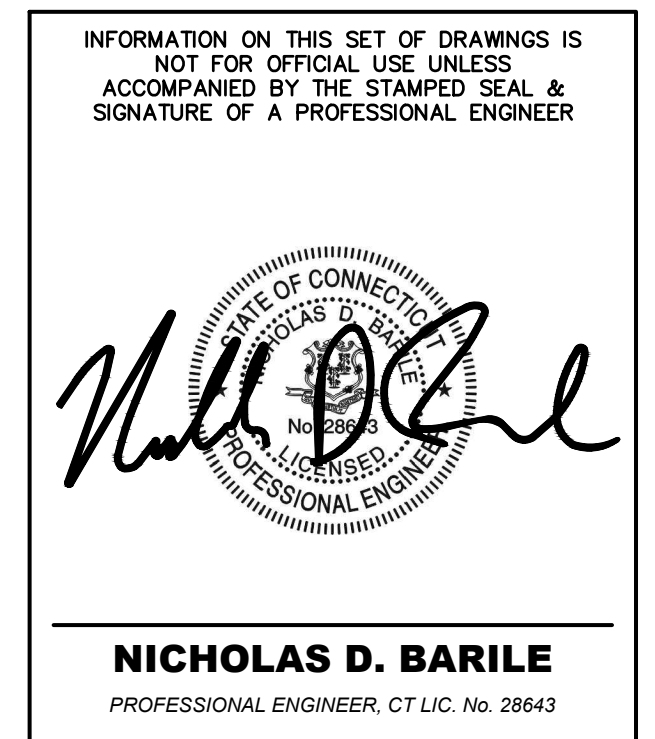
DESIGN INFORMATION AND GENERAL REQUIREMENTS	DESIGN INFORMATION AND GENERAL REQUIREMENTS
<p>1.1 CODES</p> <p>a. DESIGN CONFORMS TO THE 2022 CONNECTICUT STATE BUILDING CODE.</p> <p>b. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360-05.</p> <p>1.2 SEISMIC DESIGN DATA</p> <p>a. AS PER MODIFICATIONS TO 1990 UNIFORM BUILDING CODE OUTLINED IN THE TITLE 27 VOLUME 2 REFERENCE STANDARD RS 9-6 EARTHQUAKE LOADS, THIS PROPOSED CONSTRUCTION IS EXEMPT FROM CONSIDERATION OF SEISMIC LOADING. IT REQUIRES NO NEW FOUNDATION OR MODIFICATIONS TO EXISTING FOUNDATIONS WITH THE TOTAL PROPOSED ENLARGEMENTS NOT EXCEEDING MORE THAN 60% OF THE VALUE OF THE BUILDING.</p> <p>1.3 MISCELLANEOUS</p> <p>a. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.</p> <p>2. STRUCTURAL STEEL</p> <p>2.1 MATERIALS</p> <p>a. WIDE FLANGE SHAPES ASTM A992</p> <p>ALL OTHER SECTIONS AND PLATE ASTM A36</p> <p>HSS (REC) ASTM A500 GR. B, 46 KSI</p> <p>HSS (RND) ASTM A500 GR. B, 42 KSI</p> <p>PIPES ASTM A53 GR. B, 35 KSI</p> <p>b. BOLTS ASTM A325 U.N.O.</p> <p>c. ANCHOR RODS ASTM A307</p> <p>d. WELDING ELECTRODES AWS A5.1 (E70XX)</p> <p>e. STEEL CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ANSI/AISC 360-05"</p>	<p>e. WELDING SHALL CONFORM TO "STRUCTURAL WELDING CODE - STEEL, AWS D1.1-04"</p> <p>f. THE FABRICATOR SHALL FURNISH CHECKED SHOP AND ERECTION DRAWINGS TO THE ENGINEER, AND OBTAIN APPROVAL PRIOR TO FABRICATING ANY STRUCTURAL STEEL. SHOP DRAWINGS SHALL CONFORM TO "DETAILING FOR STEEL CONSTRUCTION, 2ND EDITION"</p> <p>2.2 CONNECTIONS</p> <p>a. SHOP CONNECTIONS MAY BE BOLTED OR WELDED.</p> <p>b. FIELD CONNECTIONS SHALL BE BOLTED WITH A325-N BOLTS AND HARDENED WASHERS, (INSTALLED SNUG TIGHT) UNLESS OTHERWISE SPECIFIED OR IF WELDED CONNECTIONS ARE NOTED ON DRAWINGS.</p> <p>c. CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE STEEL FABRICATOR AND SHALL BE DESIGNED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES." ALL "FRAMED BEAM CONNECTIONS" SHALL BE SIZED FOR ONE HALF THE MAXIMUM TOTAL UNIFORM LOAD AS PUBLISHED IN "STEEL CONSTRUCTION MANUAL, 13TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.</p> <p>e. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL OF ENGINEER.</p> <p>2.3 FINISHES</p> <p>a. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION PER ASTM A123.</p> <p>b. BOLTS AND NUTS SHALL BE HOT DIP GALVANIZED PER ASTM A153.</p> <p>c. ALL SURFACES DAMAGED BY FIELD WELDING OR CUTTING SHALL BE PAINTED WITH ZINC RICH PAINTS.</p>



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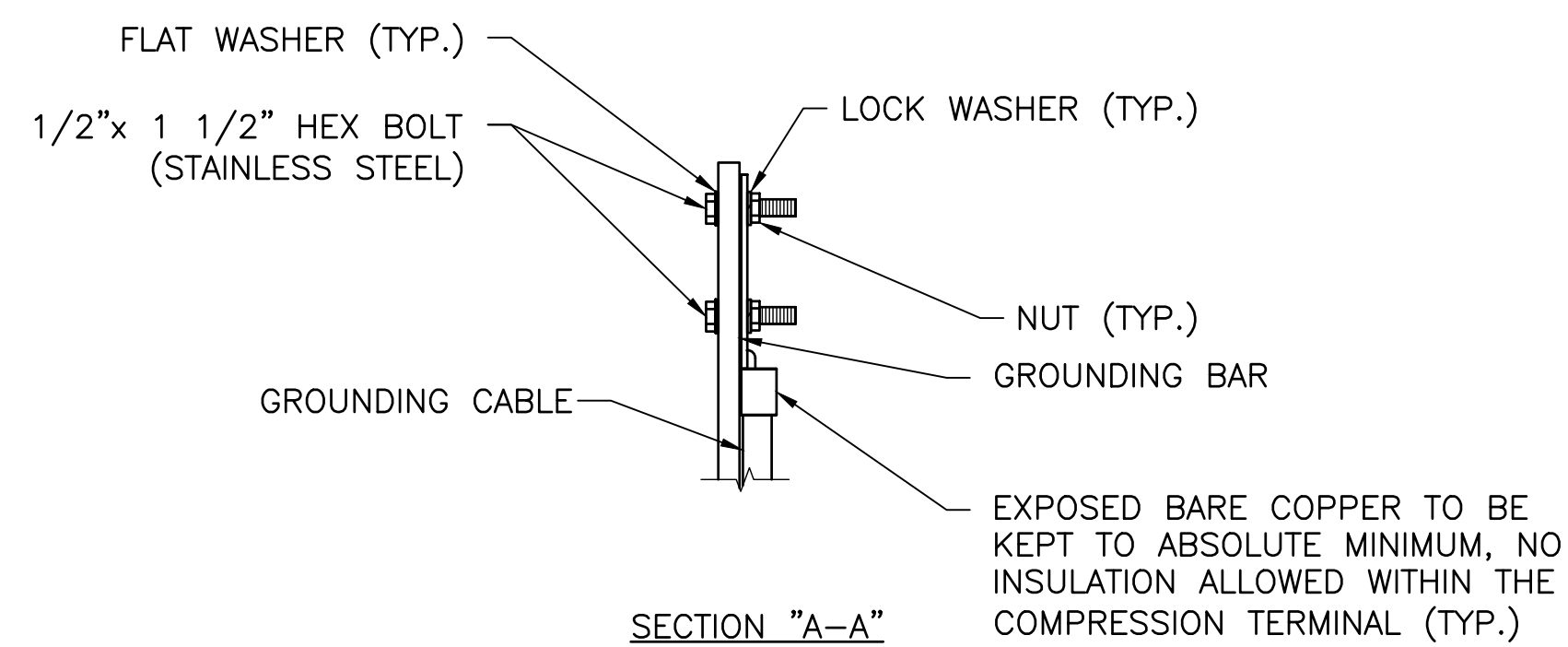
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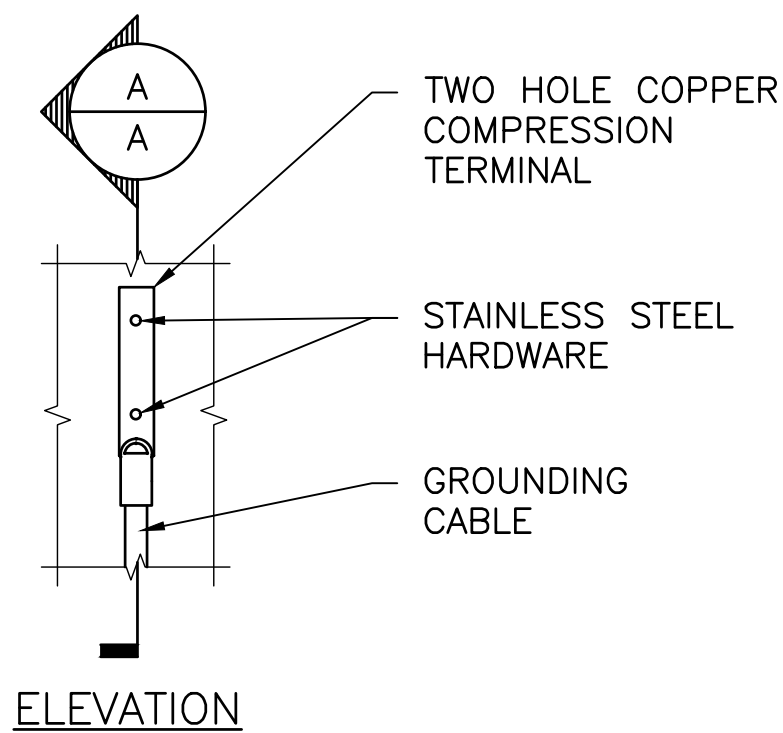
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DRAWING TITLE:
GAMMA SECTOR
REMEDATION
DETAILS & NOTES

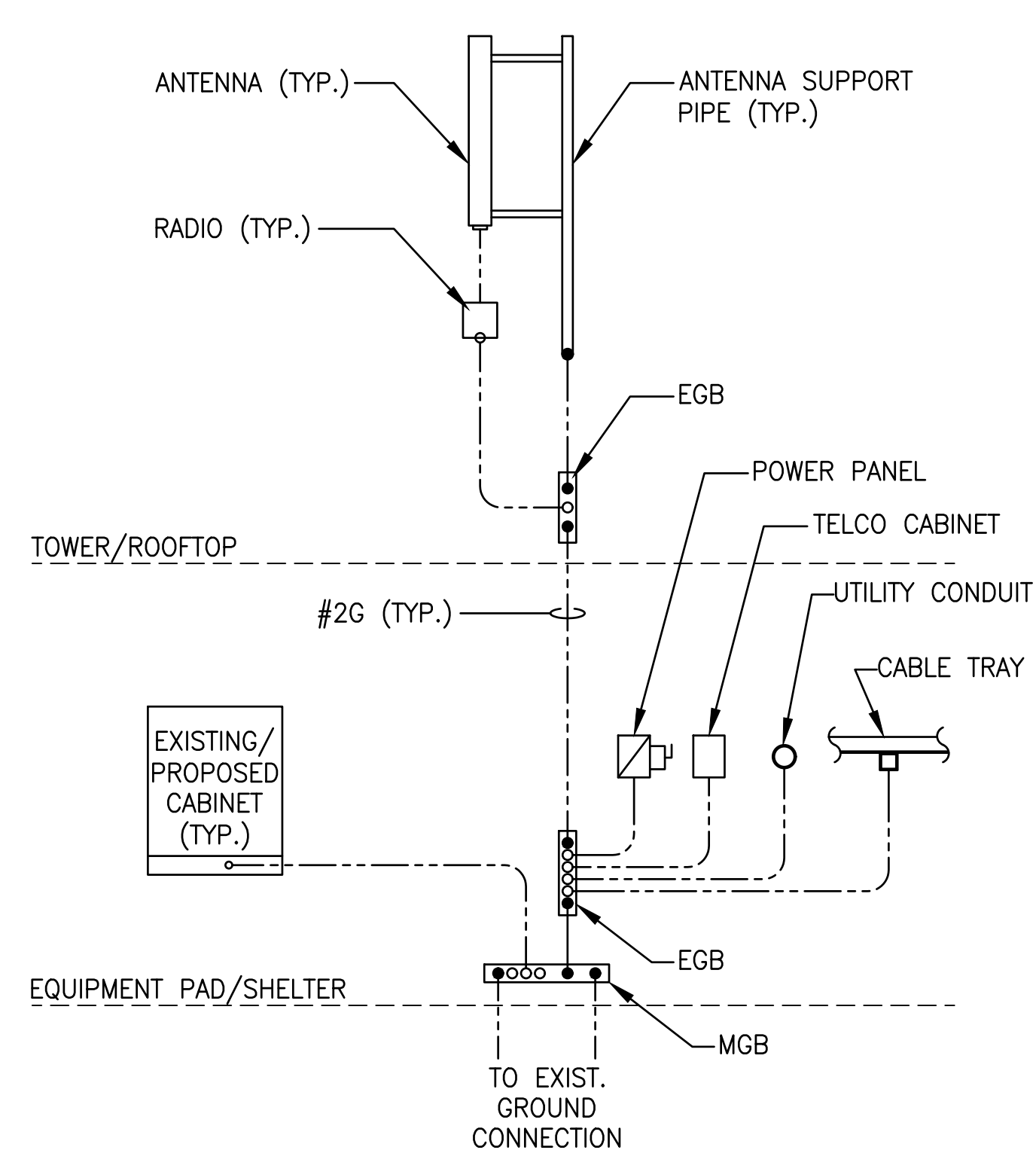
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S-1



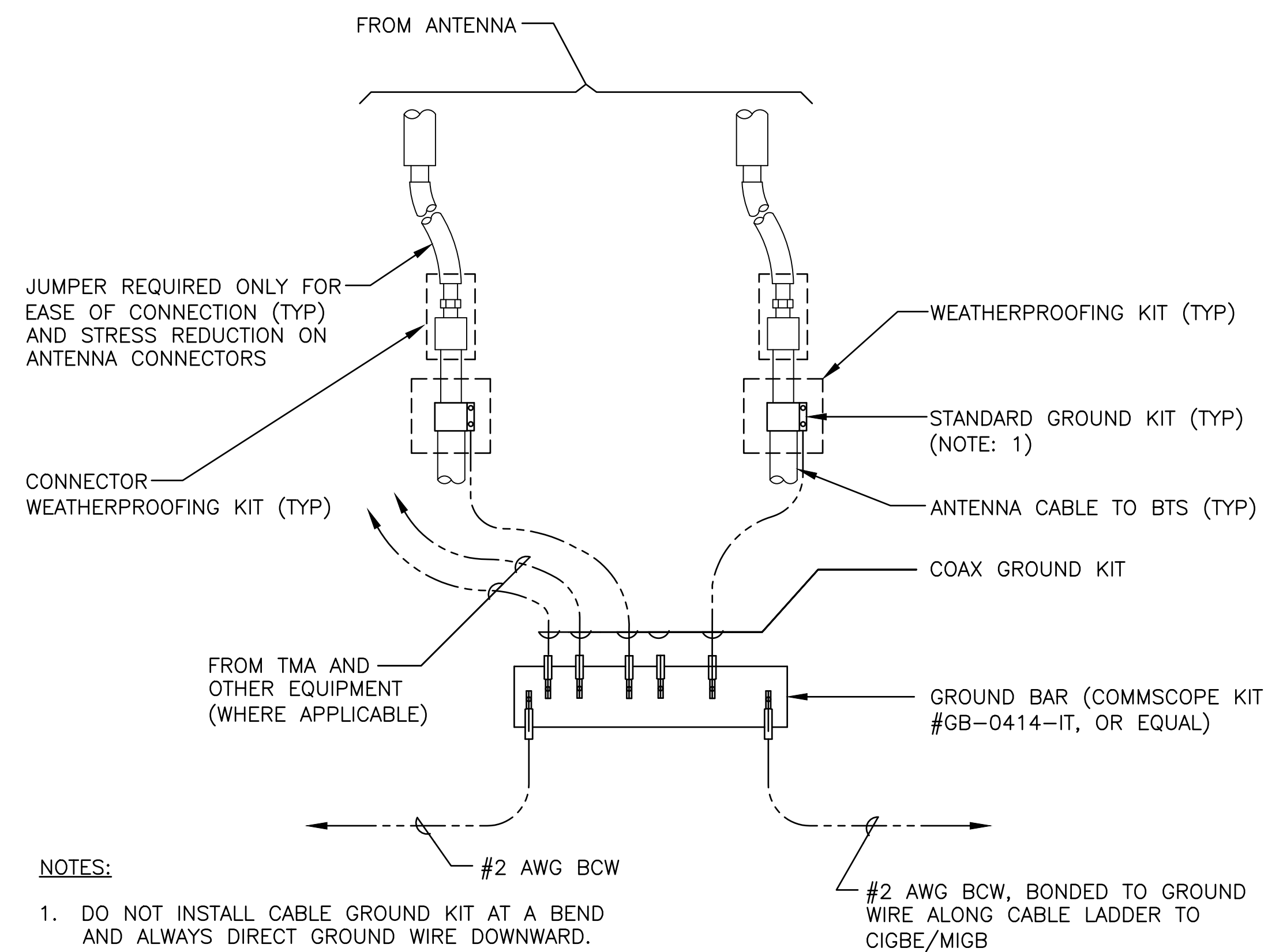
- NOTE:**
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.



1 TYPICAL GROUND BAR CONNECTION DETAIL
E-1 SCALE: N.T.S.

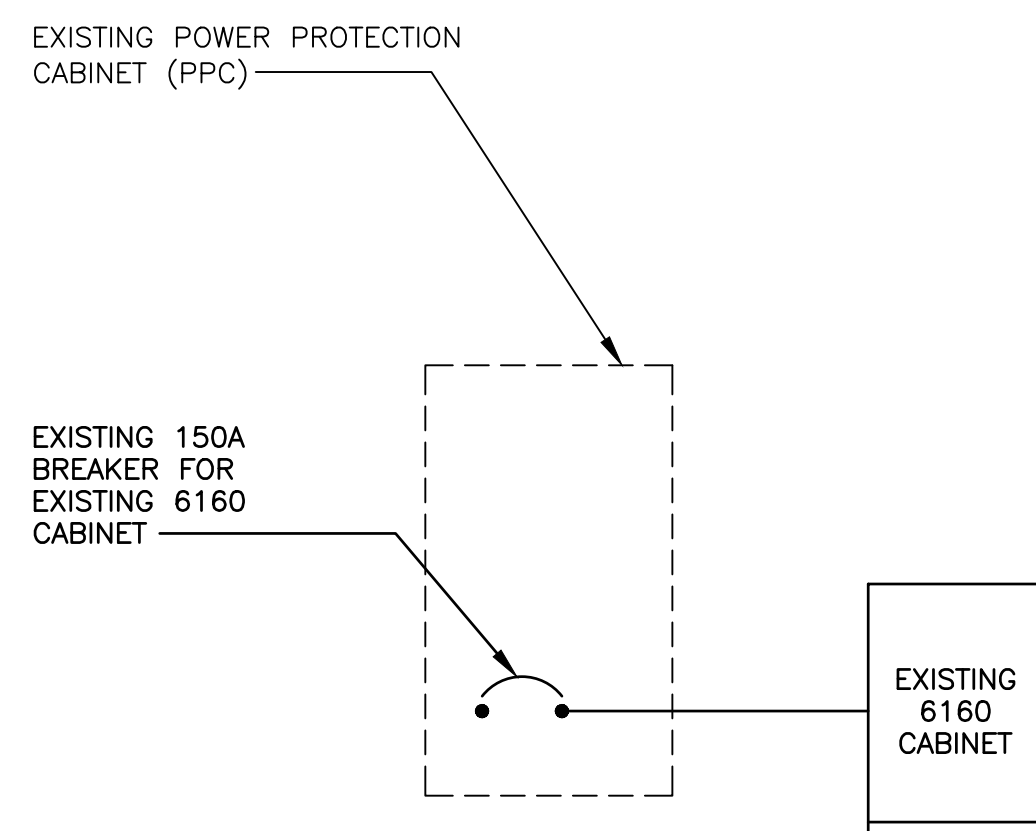


2 GROUNDING RISER DIAGRAM
E-1 SCALE: N.T.S.



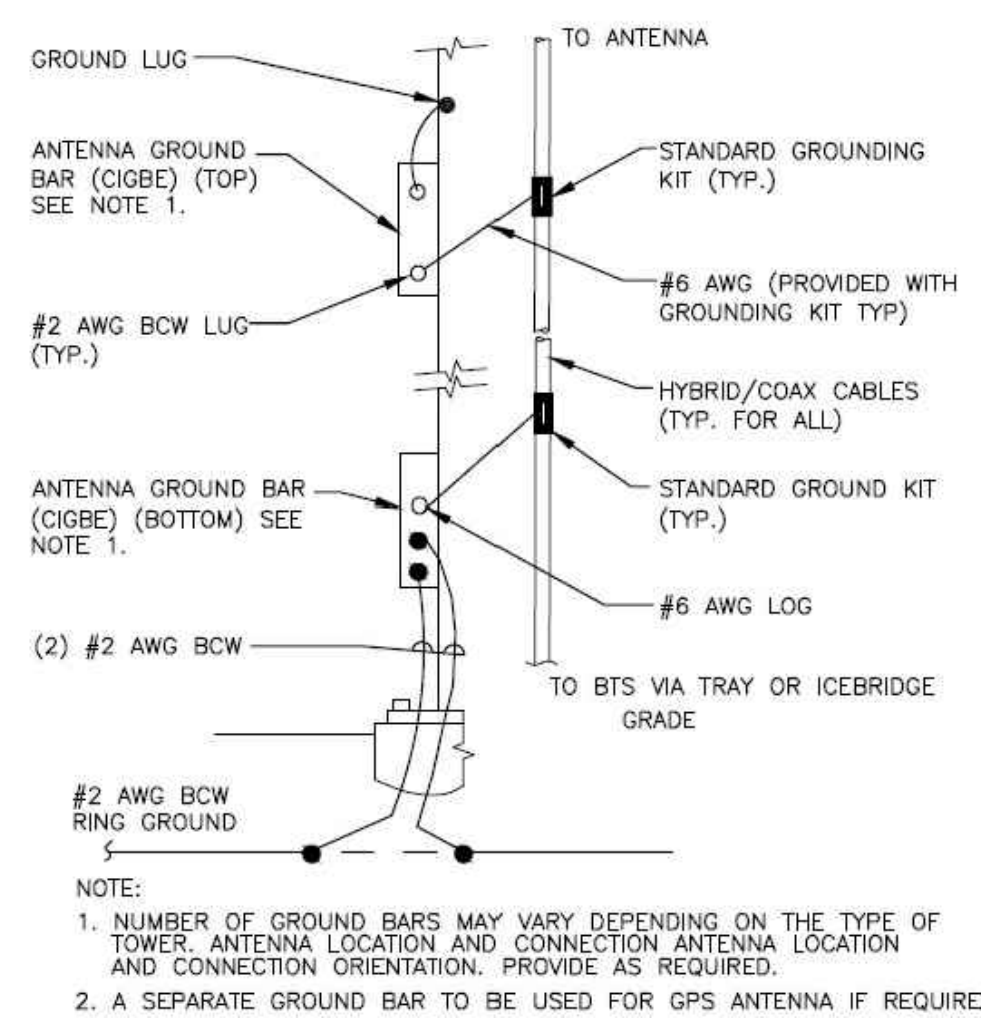
- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWNWARD.

3 GROUND WIRE TO GROUND BAR CONNECTION DETAIL
E-1 SCALE: N.T.S.



EXISTING ELECTRIC FEEDERS AND CONDUIT TO BE UPGRADED AS REQUIRED, CONDUIT AND WIRE LENGTH/SIZE TO BE VERIFIED BY LICENSED ELECTRICIAN

4 ONE LINE DIAGRAM
E-1 SCALE: 1/4"=1'-0"



- NOTE:**
- NUMBER OF GROUND BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATION AND CONNECTION ANTENNA LOCATION AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.
 - A SEPARATE GROUND BAR TO BE USED FOR GPS ANTENNA IF REQUIRED.

5 ANTENNA CABLE GROUNDING
E-1 SCALE: N.T.S.

ELECTRICAL LEGEND	
A	AMPERE
V	VOLT
KWH	KILOWATT - HOUR
C	CONDUIT
GRC	GALVANIZED RIGID CONDUIT
G	GROUND
MGB	GROUND
○	MECHANICAL CONNECTION
●	CADWELD CONNECTION
○	MECHANICAL (COMPRESSION TYPE) CONNECTION
⊗	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL
○	MASTER GROUND BAR
○	EQUIPMENT GROUND BAR
—	GROUND COPPER WIRE, SIZE AS NOTED
—	EXPOSED WIRING
—	COAXIAL CABLE
○	5/8"x8" COPPER CLAD STAINLESS STEEL GROUND ROD
●	EXOTHERMIC (CAD WELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
PPC	POWER PROTECTION CABINET

Documents prepared by Elevated Engineering, including this document, are to be used only for the specific project and specific use for which they were intended. Any extension of use to any other projects, by owner or by any other party, without the expressed written consent of Elevated Engineering, is done unlawfully and at the users own risk. If used in a way other than that specifically intended, user will hold Elevated Engineering, harmless from all claims and losses.

SCHEDULE OF REVISIONS		
REV. NO.	DATE	DESCRIPTION OF CHANGES
7		
6		
5		
4		
3	03/20/24	REVISED RAD CENTER
2	02/26/24	ISSUED AS FINAL
1	02/21/24	PER FAILING ANALYSIS
0	02/08/24	INITIAL SUBMISSION

DRAWN BY: CJT
CHECKED BY: NDB
SCALE: AS NOTED
JOB NO: 24003-NSS

INFORMATION ON THIS SET OF DRAWINGS IS NOT FOR OFFICIAL USE UNLESS ACCOMPANIED BY THE STAMPED SEAL & SIGNATURE OF A PROFESSIONAL ENGINEER

Nicholas D. Barile
PROFESSIONAL ENGINEER

NICHOLAS D. BARILE
PROFESSIONAL ENGINEER, CT LIC. No. 28643

SITE ID: CT11224A
GUILFORD-1_1
59 YOUNGS APPLE ORCHARD RD,
NORTH BRANFORD, CT 06472
NEW HAVEN COUNTY

DRAWING TITLE:
GROUNDING DETAILS & NOTES

DRAWING SHEET:
E-1

Exhibit D

Structural Analysis Report



Structural Analysis of a 129 ft Self-Supporting Tower

EIP Site Info: 701778 - Youngs Apple Orchard

TMO Site Info: CT11224A - Guilford-1

County: New Haven

Location: Youngs Apple Orch. Northford, CT

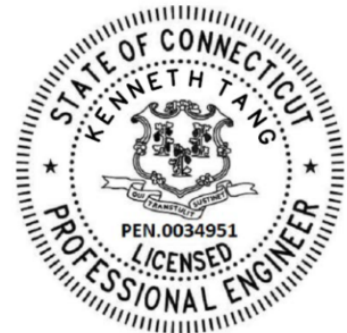
Checked By:

A handwritten signature in black ink that reads "Patrick Propert".

Patrick Propert
Structural Design Engineer III

A handwritten signature in black ink that reads "Kenneth Tang".

3/22/2024



Two Allegheny Ctr

Nova Tower 2, Suite 1002

Pittsburgh, PA 15212

March 2024

March 22, 2024

Vince Larson
Everest Infrastructure Partners
Two Allegheny Ctr
Nova Tower 2, Suite 1002
Pittsburgh, PA 15212



RE: EIP: 701778 - Youngs Apple Orchard
TMO: CT11224A – Guilford-1
59 Youngs Apple Orchard Rd, Northford, CT

Vince,

Armor Tower has completed the structural analysis of the subject tower and **have found it to be adequate within the scope of this analysis to support the proposed antenna loading.** The tower was analyzed according to the code-specified wind and ice parameters outlined in the Code Requirements section.

The subject tower is a 129' square self-supporting tower consisting of all-bolted sections with angle legs and bracing. Tower face dimensions range from 9.2" at the top to 24.3' at the base. Foundation capacities are based on a foundation mapping and geotechnical investigation.

The loading used in the analysis consisted of the existing and proposed equipment and equipment changes shown in Table 1.

A synopsis of the analysis results is as follows:

- Tower legs: 41%
- Bracing/bolts: 39%/65%
- Anchor bolts 34%
- Foundation 42%

We recommend a post-construction inspection be completed by a structural engineer to document that tower-mounted equipment has been placed in compliance with the requirements of this analysis. For a detailed listing of tower performance, please see pages 33 to 35 of the calculations.

We appreciate the opportunity to provide our professional services to Everest Infrastructure Partners and T-Mobile and if you have any questions concerning this analysis, please contact us.

Sincerely,

ARMOR TOWER, INC.

A handwritten signature in blue ink that reads "Patrick Botimer".

Patrick Botimer
Structural Design Engineer V



A handwritten signature in blue ink that reads "Kenneth Tang".

3/22/2024

TABLE 1 - Existing/Proposed/Reserved Antennas and Feed lines

Status	Centerline Elev		QTY	Antenna Model	Mount Type	Coax QTY/Size	Coax Location	Owner/Tenant
	Mount	Equip						
Existing	132	139	1	4' Omni	2"Sch40x15' Pipe	(1) 1/2" coax	Leg C	Unknown
Existing	132	132	1	CC807-08	Pipe Mount	7/8" coax	Leg D	Unknown
Existing	117.5	117.5	1	RFS SC3/SCX3 dish	Pipe Mount	EU90	Leg D	Unknown
Existing	100	100	1	CC807-08	Side arm mount	1/2" coax	Leg D	Unknown
Existing Proposed Reserved	94	94	3	APXVAARR24_43-U-NA20	6' Standoff / Pipes	(3*) 1-3/8" hybrid (3) 6x24 hybrid (3+9) 1-5/8" coax	Leg A	TMO
			3	AIR6419 B41				
			3	KRY112 89/4				
			3	Radio 4449 B71				
			3*	Radio 4415 B25				
			3	Radio 4415 B66A				
			3	Radio 4460 B25/B66				
Existing	83	83	3	MX08FRO665	10' Sector Frames	(1) 1-5/8" coax	Leg D	Dish
			3	TA08025-B604 RRU				
			3	TA08025-B605 RRU				
			3	RDIDC-9181-PF-48				

Notes: To Be Removed

* Existing to be removed but considered for Reserved tower capacity

CODE REQUIREMENTS

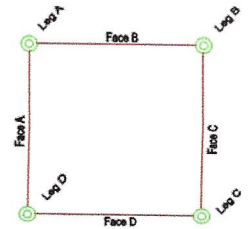
Governing code: 2022 CT State Building Code
Code basis/adoption: 2021 International Building Code
Referenced standard: ANSI/TIA 222-H
Basic wind speed: (3-sec. gust): V_{ult}: 125 mph with no ice
 50 mph with 1" concurrent ice
County of site location: New Haven
ASCE 7 Special wind region: No
Risk Category: II
Exposure Category: C
Topographic Category: (Method 1) 1 - no topographic escalation
Crest Height/Tower Base AMSL Elevation: 0 ft/ 450 ft
Site Spectral Response: S_s=0.208, S₁=0.055 *EQ does not govern*
Target Reliabilities of TIA Annex S considered: Yes

TABLE 2 - Source Documents Referenced for Analysis

Document	Source	Date of Document
Foundation Mapping	TEP	Sept 2018
Prior Analysis	Armor Tower, Inc	Feb 2022
Mount Analysis	Elevated Engineering	Feb 2024
RF Design	Colo App	Mar 2024
Geotechnical report	TEP	Sept 2018

PRIMARY ASSUMPTIONS CONSIDERED IN THIS PROJECT

1. Leg A is assumed to be oriented Northwest.
2. Allowable steel stresses are defined by AISC-LRFD-99/360-16 and all welds conform to AWS D1.1 specification.
3. If reserved antennas/feed lines by other carriers or the tower owner are to be considered in this analysis, it is the responsibility of Everest Infrastructure Partners and its affiliates to provide this information.
4. Any deviation from the analyzed antenna loading will require a re-analysis of the tower for verification of structural integrity. This analysis has considered the feed lines to be distributed and located as shown on drawing E-7.
5. This analysis assumes all tower members are galvanized adequately to prevent corrosion of the steel and that all tower members are in "like new" condition with no physical deterioration. This analysis also assumes the tower has been maintained properly per TIA 222-H Annex J recommended inspection and maintenance procedures for tower owners and is in a plumb condition. Armor Tower has not completed a condition assessment of the tower.
6. No accounting for residual stresses due to incorrect tower erection can be made. This analysis assumes all bolts are appropriately tightened providing necessary connection continuity and that the installation of the tower was performed by a qualified tower erector.
7. No conclusions, expressed or implied, shall indicate that Armor Tower has made an evaluation of the original design, materials, fabrication, or potential installation or erection deficiencies. Any information contrary to that assumed for the purpose of preparing this analysis could alter the findings and conclusions stated herein.
8. It is our assumption that the supplied data is complete and accurately reflects the existing conditions of the tower and equipment. Armor Tower has not been commissioned to field-validate this data. Armor Tower reserves the right to add to or modify this report as more information becomes available.
9. The investigation of the load carrying capacities of the antenna supporting frames/mounts is outside the scope of this analysis. Antenna mount certification can be completed under a separate contract.
10. Armor Tower can assist the contractor in providing a Class IV rigging plan for safe equipment lifting.



DESIGNED APPURTENANCE LOADING

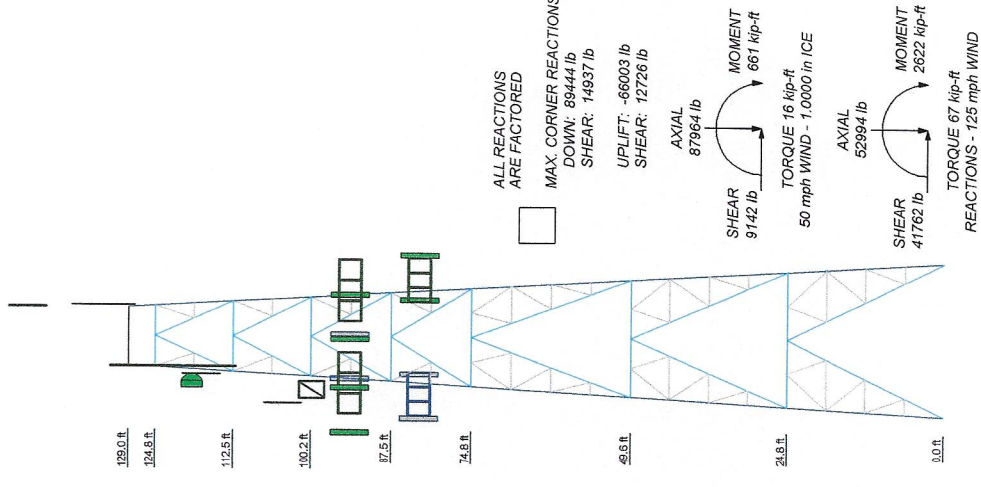
ELEVATION	TYPE	TYPE	ELEVATION
132	CC807-08	Eriasson Radio 4460 B25-B66 (P-TMO-LegA)	94
132	2.5'Sch40 x 20H	Eriasson Radio 4460 B25-B66 (P-TMO-LegC)	94
129	2.0'ODx4' Omni	Eriasson Radio 4460 B25-B66 (P-TMO-LegD)	94
124	2' Sch40 x 15H (LRE)	(2) 2.5'Sch40 x 15H (TMO-LegA)	94
117.5	4'Sch40 x 4H (Dishmount)	(2) 2.5'Sch40 x 15H (TMO-LegC)	94
117.5	RFS SC3XXXSX3SXXX	(2) 2.5'Sch40 x 15H (TMO-LegD)	94
100	TMA	5H standoff-Flat (TMO)	94
100	Side Arm mount (SO601-1)	APXVAARR24_43-LJ-NA20 w. MigPipe (E-TMO-LegA)	94
100	CC807-08	MX08FRO655 w. Mig Pipe (DVA-Alpha)	83
94	APXVAARR24_43-LJ-NA20 w. MigPipe (E-TMO-LegC)	MX08FRO655 w. Mig Pipe (DVA-Beta)	83
94	APXVAARR24_43-LJ-NA20 w. MigPipe (E-TMO-LegD)	TA08025-B604 RRU (DVA-Gamma)	83
94	Eriasson AIR6419 B41 w. MigPipe (P-TMO-LegA)	TA08025-B604 RRU (DVA-Beta)	83
94	Eriasson AIR6419 B41 w. MigPipe (P-TMO-LegC)	TA08025-B604 RRU (DVA-Gamma)	83
94	Eriasson AIR6419 B41 w. MigPipe (P-TMO-LegD)	TA08025-B605 RRU (DVA-Alpha)	83
94	Eriasson KRY 112 B94 (R-TMO-LegA)	TA08025-B605 RRU (DVA-Beta)	83
94	Eriasson KRY 112 B94 (R-TMO-LegC)	TA08025-B605 RRU (DVA-Gamma)	83
94	Eriasson KRY 112 B94 (R-TMO-LegD)	RR10C-9191-PF-48 (DVA-Alpha)	83
94	Eriasson Radio 4449 B72B71 (E-TMO-LegA)	Sabre THD 10 V5boom (DVA-Alpha)	83
94	Eriasson Radio 4449 B72B71 (E-TMO-LegC)	Sabre THD 10 V5boom (DVA-Beta)	83
94	Eriasson Radio 4449 B72B71 (E-TMO-LegD)	Sabre THD 10 V5boom (DVA-Gamma)	83
94	Eriasson RRUS 4415 B25 (R-TMO-LegA)	GPS	76.6
94	Eriasson RRUS 4415 B25 (R-TMO-LegC)	GPS	76.6
94	Eriasson RRUS 4415 B25 (R-TMO-LegD)	Cutwalk	75

SYMBOL LIST

MARK	MARK	SIZE	SIZE
A	B	1 @ 4.2	
5R.516			

TOWER DESIGN NOTES

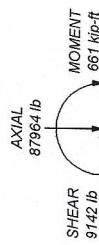
1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. *Tower Rating: 64.6"



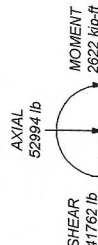
ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT B:
 DOWN: 89444 lb
 SHEAR: 14837 lb

UPLIFT: -66003 lb
 SHEAR: 12726 lb



TORQUE 16 kip-ft
 50 mph WIND - 1,0000 in ICE




TORQUE 67 kip-ft
 REACTIONS - 125 mph WIND

Section	Legs	Leg Grade	Diagonals	Diagonal Grade	Top Chords	Horizontals	Red. Horizontals	Red. Diagonals	Red. Hips	Inner Bracing	Face Width (ft)	# Panels @ (ft)	Weight (lb)
T1	L4x4x3/8	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4x3/8	2L2 1/2x2x1/4	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T2	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T3	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T4	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T5	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T6	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T7	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T8	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T9	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T10	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6
T11	L6x6x1/2	A36	2L2 1/2x2x1/4x3/8	A36	N.A.	2L2 1/2x2x1/4	L2x2 1/2x3/16	L2x2 1/2x3/16	N.A.	L2 1/2x2x3/16	21.4175	2 @ 24.8	34120.6

ARMOR TOWER INC.
 9 North Main St
 Cortland, NY 13045
 Phone: 607-691-6381
 FAX: 868-570-0840

Job: 129' Sqr SELF-SUPPORTING TOWER ANALYSIS
 Project: T-Mobile C711224A - Guilford-1
 Client: Everest - 701778-Youngs Apple Orchard, CT
 Code: TIA-222-H
 Path:

Drawn by: PB
 Date: 03/21/24
 Scale: NTS
 Draw No.: E-1

 ARMOR TOWER INC 9 North Main St Cortland, NY 13045 Phone: 607-591-5381 FAX: 866-570-0840	Job 129' Sqr SELF-SUPPORTING TOWER ANALYSIS	Page 1 of 35
	Project T-Mobile CT11224A - Guilford-1	Date 10:15:00 03/21/24
	Client Everest - 701778-Youngs Apple Orchard, CT	Designed by PB

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 129.00 ft above the ground line.
 The base of the tower is set at an elevation of 0.00 ft above the ground line.
 The face width of the tower is 9.17 ft at the top and 24.33 ft at the base.
 This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Tower base elevation above sea level: 450.00 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
- Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- *Tower Rating: 68.8%*.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

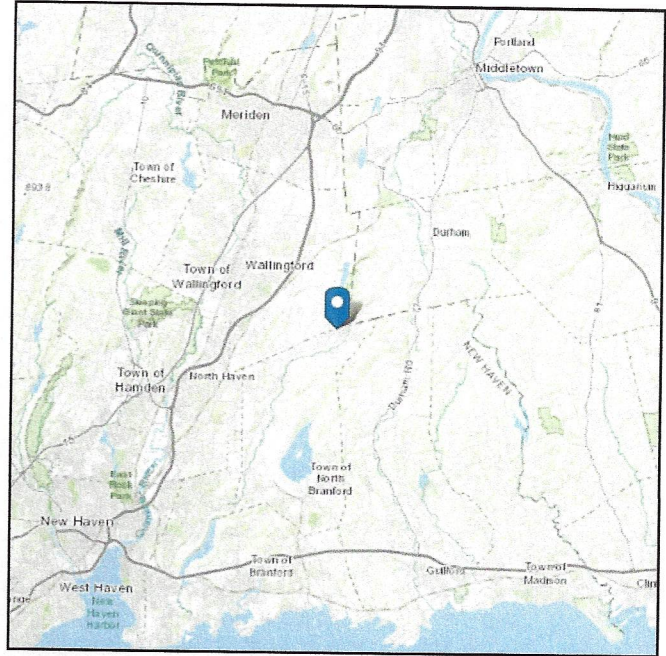
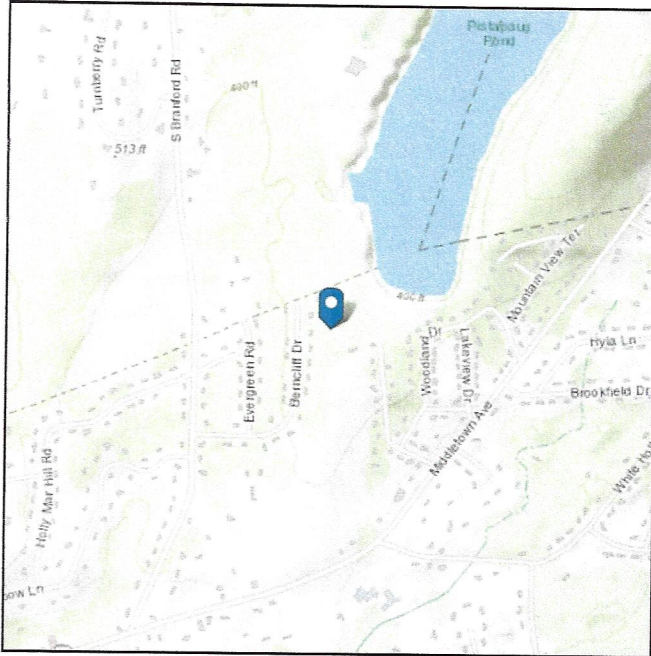
- | | | |
|---|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Arc Concentric Distribute Leg Loads As Uniform | <ul style="list-style-type: none"> Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retention Guys To Initial Tension Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurtenances Alternative Appurt. EPA Calculation Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs Use ASCE 10 X-Brace Ly Rules | <ul style="list-style-type: none"> √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|---|---|---|

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 41.421042
Longitude: -72.74946
Elevation: 450.7361328487527 ft (NAVD 88)



Wind

Results:

Wind Speed	120 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Wed Mar 20 2024

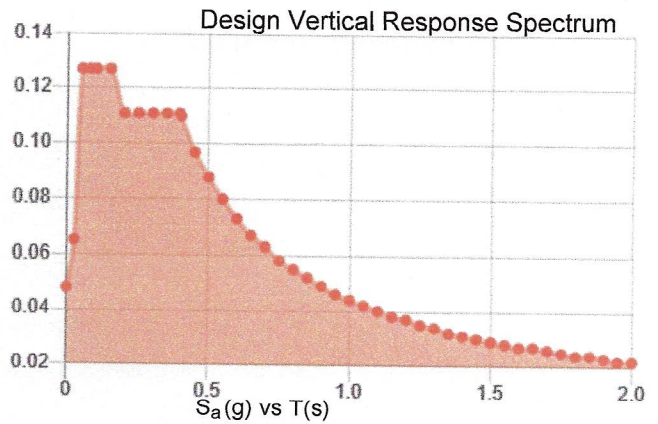
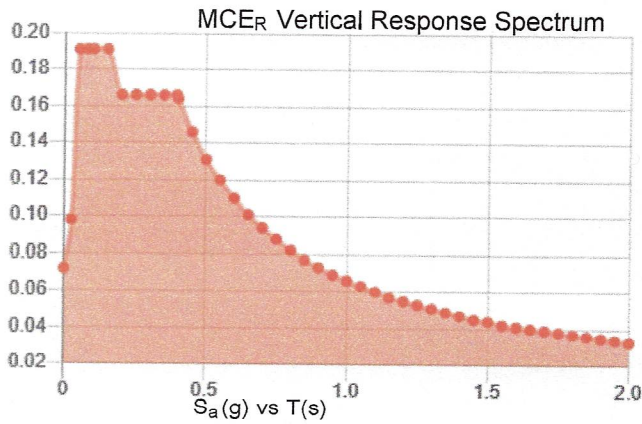
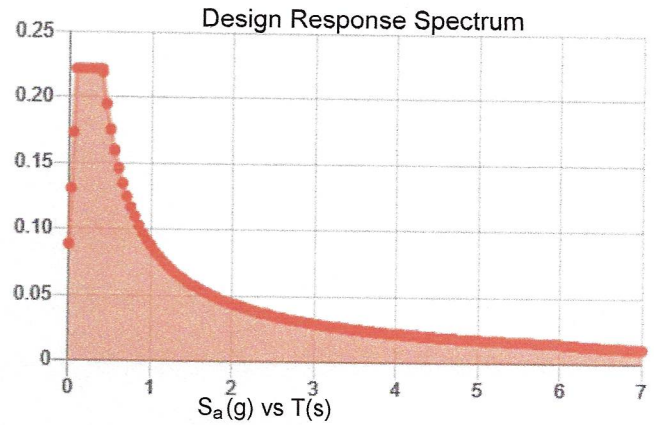
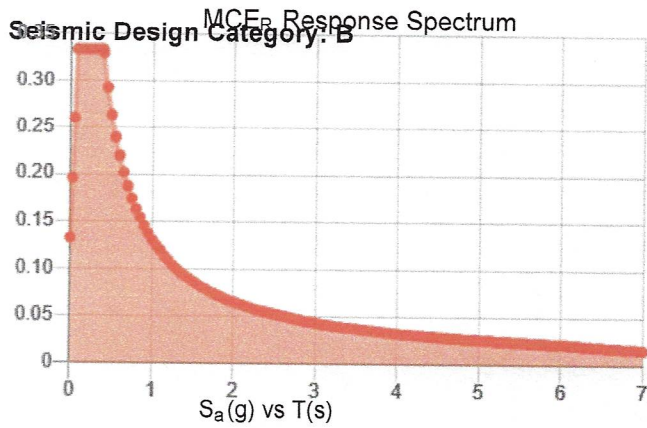
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.208	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.116
F_v :	2.4	PGA _M :	0.182
S_{MS} :	0.333	F_{PGA} :	1.567
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.222	C_v :	0.716



Data Accessed: Wed Mar 20 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Wed Mar 20 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

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Exhibit E

Mount Analysis

ELEVATED ENGINEERING

CT11224A

59 Youngs Apple Orchard Road, North Branford, CT 06472
(New Haven County)

Mount Analysis Anchor

March 20, 2024

<u>Item</u>	<u>Pass/Fail</u>	<u>Capacity</u>
Antenna Mounts – Alpha/Beta/Gamma	PASS	41.3%
Antenna Mounts – Gamma at position 1	PASS	80.2%

* See Discussion



Nicholas D. Barile, PE

CT PE License No.: 28643

Elevated Engineering Project No.: 24003-NSS

99 FANNY ROAD, PO BOX 8, BOONTON, NJ 07005

OFFICE: 862-242-8050

ELEVATED ENGINEERING

Summary

At the request of T-Mobile, ELEVATED ENGINEERING has performed a structural analysis of the antenna mounting system for the antenna equipment loading under the *2022 Connecticut Building Code, ASCE 7, ANSI/TIA-222-H, and AISC (LRFD14)*. Information pertaining to the antenna mounts was obtained from:

- Elevated Engineering design visit on 02/01/2024.
- Elevated Engineering construction drawings dated 02/26/2024.
- Centek Engineering mount analysis structural report dated 04/29/2019.
- RFDS Version-4 last modified 01/25/2024.

Loading Criteria

Wind Factors			
	Basic Wind Speed; Vult	120	mph
	Risk Category	II	
	Exposure	C	
	Flat Terrain		
	Ground Elevation	442	ft
	Ice Thickness	3/4"	
	Wi	40	mph
Seismic Factors			
	Ss:	0.208	
	S1:	0.055	
Loading Combinations at (12) 30° Intervals			

Discussion

The tower supporting the antenna mounts was not analyzed in this report. Based on the EE plans dated 02/21/2024, the proposed modifications to the antenna mount on Gamma position1 can support proposed loading.

Conclusions

Per our analysis, the antenna mounting systems can support the proposed loading under the *2022 Connecticut Building Code*.

General Comments

If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, ELEVATED ENGINEERING should be notified immediately to perform a revised analysis. This report is not a condition assessment and assumes good workmanship will be used and systems will be properly maintained.

Limitations

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature, and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned, and it may not be reused, copied, or distributed for any other purpose without the written consent of ELEVATED ENGINEERING.

ELEVATED ENGINEERING

Attachment A Final Equipment Configuration

Final Alpha Sector Antenna Configuration

Rad Center is 94'-0"

- (1) RFS APXVAALL24-43-U-NA20 Antenna
- (1) Ericsson AIR6419 B41 Antenna
- (1) Ericsson Radio 4449 B71+B85 RRU
- (1) Ericsson Radio 4460 B25+B66 RRU

Final Beta Sector Antenna Configuration

Rad Center is 94'-0"

- (1) RFS APXVAALL24-43-U-NA20 Antenna
- (1) Ericsson AIR6419 B41 Antenna
- (1) Ericsson Radio 4449 B71+B85 RRU
- (1) Ericsson Radio 4460 B25+B66 RRU

Final Gamma Sector Antenna Configuration

Rad Center is 94'-0"

- (1) RFS APXVAALL24-43-U-NA20 Antenna
- (1) Ericsson AIR6419 B41 Antenna
- (1) Ericsson Radio 4449 B71+B85 RRU
- (1) Ericsson Radio 4460 B25+B66 RRU

Wind Analysis F = qz x Gh x (EPA) per TIA-222-H

$Kz=2.01 (Z/Zg)^{(2/\alpha)}$ = 1.403
 Zg = 700 Table 2-4 Exposure D
 Alpha (α) = 11 Table 2-4
 Z= 94 ft
 Terrain Category I
 $Kzt = (1+KcKt/Kh)^2$ 1.00 for Category I
 Kc= 1.00 Table 2-4
 Kt= 0.53 Table 2-5
 $Kh=e^{(f * z/H)}$ = 0.000 for H=0
 f= 2.00 Table 2-5
 H =Height of Crest Surrounding Terrain 0.00 ft
 Kz = 1.403
 Kzt = 1.0
 Kd = 0.95
 Importance Factor Table 2-3 = I = 1.0 Use Class II
 Zs = **442** ft
 $Ke= e^{(-0.0000362xZs)}$ = **0.98**
 Vult = 120 mph
 $qz=0.00256xKzxKzt xKdxKsxKexV^2xI$ = 48.4 psf
 Gh = 1.00
qz Gh = 48.4 psf

	Equipment Loading	CaAa (sf or sf/lf)	Wind (psf)	Ka	Wind Load (lb)	Weight (lb)
FN1	AIR6419 B41	6.320	48.4	0.9	275.1	83.3
FN2	APXVAALL24-43-U-NA20	20.240	48.4	0.9	881.0	153.3
FN3	RRU 4449 B71+B85	1.680	48.4	0.9	73.1	74
FN4	RRU 4460 B25+B66	2.560	48.4	0.9	111.4	109
FN5						
	3"x3" Angle	0.50	48.4	0.9	21.8	
	2" XS Pipe	0.238	48.4	0.9	10.3	
	2-1/2" Std. Pipe	0.2875	48.4	0.9	12.5	
	C4x7.2	0.667	48.4	0.9	29.0	
FT1	AIR6419 B41	2.88	48.4	0.9	125.4	83.3
FT2	APXVAALL24-43-U-NA20	8.89	48.4	0.9	387.0	153.3
FT3	RRU 4449 B71+B85	1.290	48.4	0.9	56.1	74
FT4	RRU 4460 B25+B66	1.980	48.4	0.9	86.2	109
FT5						

Exhibit F

Power Density/RF Emissions Report



FOX HILL TELECOM

Radio Frequency Emissions Analysis Report



Site ID: CT11224A

Guilford-1_1

59 Youngs Apple Orchard Road
North Branford, CT 06472

April 1, 2024

Fox Hill Telecom Project Number: 240088

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	17.38 %



April 1, 2024

T-MOBILE
Attn: RF Manager
35 Griffin Road South
Bloomfield, CT 06009

Emissions Analysis for Site: **CT11224A – Guilford-1_1**

Fox Hill Telecom, Inc (“Fox Hill”) was directed to analyze the proposed upgrades to the T-MOBILE facility located at **59 Youngs Apple Orchard Road, North Branford, CT**, for the purpose of determining whether the emissions from the Proposed T-MOBILE Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz & 700 MHz bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report the percentage of MPE rather than power density.



FOX HILL TELECOM

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed upgrades to the T-MOBILE antenna facility located at **59 Youngs Apple Orchard Road, North Branford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65 for far field modeling calculations.

In OET-65, plane wave power densities in the Far Field of an antenna are calculated by considering antenna gain and reflective waves that would contribute to exposure.

Since the radiation pattern of an antenna has developed in the **Far Field** region the power gain in specific directions needs to be considered in exposure predictions to yield an Effective Radiated Power (ERP) in each specific direction from the antenna. Also, since the vertical radiation pattern of the antenna is considered, the exposure calculations would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels. To determine a worst-case scenario at each point along the calculation radials, each point was calculated using the antenna gain value at each angle of incident and compared against the result using an isotropic radiator at the antenna height with the greater of the two used to yield the more pessimistic far field value for each point along the calculation radial.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential 1.6 times increase in power density in calculating far field power density values.

With these factors Considered, the worst case **Far Field prediction model** utilized in this analysis is determined by the following equation:

Equation 9 per FCC OET65 for Far Field Modeling

$$S = \frac{33.4 ERP}{R^2}$$

S = Power Density (in $\mu\text{w}/\text{cm}^2$)

ERP = Effective Radiated Power from antenna (watts)

R = Distance from the antenna (meters)

Predicted far field power density values for all carriers identified in this report were calculated 6 feet above the ground level and are displayed as a percentage of the applicable FCC standards. All emissions values for other carriers were calculated using the same Far Field model outlined above, using industry standard radio configurations and frequency band selection based upon available licenses in this geographic area for emissions contribution estimates.



For each T-Mobile sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE / 5G NR	600 MHz	4	40
LTE	700 MHz	2	20
LTE	1900 MHz (PCS)	4	35
5G	1900 MHz (PCS)	4	40
GSM	1900 MHz (PCS)	2	10
LTE	2100 MHz (AWS)	4	60
LTE / 5G NR	2500 MHz (BRS)	8	30

Table 1: Channel Data Table



The following T-Mobile antennas listed in *Table 2* were used in the modeling for transmission in the 600 MHz, 700 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	RFS APXVAALL24_43-U-NA20	97
A	2	Ericsson AIR6419 B41	97
B	1	RFS APXVAALL24_43-U-NA20	97
B	2	Ericsson AIR6419 B41	97
C	1	RFS APXVAALL24_43-U-NA20	97
C	2	Ericsson AIR6419 B41	97

Table 2: Antenna Data

All calculations were done with respect to uncontrolled / general population threshold limits.



RESULTS

Per the calculations completed for the proposed T-MOBILE configurations *Table 3* shows resulting emissions power levels and percentages of the FCC’s allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS)	13.65 / 13.85 / 16.65 / 16.95	20	760	31,365.47	4.54
Antenna A2	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	240	33,900.90	4.15
Sector A Composite MPE%							8.69
Antenna B1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS)	13.65 / 13.85 / 16.65 / 16.95	20	780	32,290.23	4.54
Antenna B2	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	240	33,900.90	4.15
Sector B Composite MPE%							8.69
Antenna C1	RFS APXVAALL24_43-U-NA20	600 MHz / 700 MHz / 1900 MHz (PCS) / 2100 MHz (AWS)	13.65 / 13.85 / 16.65 / 16.95	20	780	32,290.23	4.54
Antenna C2	Ericsson AIR6419 B41	2500 MHz (BRS)	21.5	8	240	33,900.90	4.15
Sector C Composite MPE%							8.69

Table 3: T-MOBILE Emissions Levels



The Following table (*table 4*) shows all additional identified carriers on site and their emissions contribution estimates, along with the newly calculated maximum T-MOBILE MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three T-Mobile sectors have the same configuration yielding the same results for all three sectors. *Table 5* below shows a summary for each T-MOBILE Sector as well as the composite estimated MPE value for the site.

Site Composite MPE%	
Carrier	MPE%
T-MOBILE – Max Per Sector Value	8.69 %
Dish Wireless	5.73 %
Omni Antenna @ 100 feet	1.44 %
Omni Antenna @ 132 feet	0.80 %
Omni Antenna @ 139 feet	0.72 %
Site Total MPE %:	17.38 %

Table 4: All Carrier MPE Contributions

T-MOBILE Sector A Total:	8.69 %
T-MOBILE Sector B Total:	8.69 %
T-MOBILE Sector C Total:	8.69 %
Site Total:	
	17.38 %

Table 5: Site MPE Summary



FOX HILL TELECOM

Table 6 below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated T-MOBILE sector(s). For this site, all three T-Mobile sectors have the same configuration yielding the same results for all three sectors.

T-MOBILE _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 600 MHz LTE / 5G NR	4	926.96	97	6.96	600 MHz	400	1.74%
T-Mobile 700 MHz LTE	2	485.32	97	1.73	700 MHz	467	0.37%
T-Mobile 1900 MHz (PCS) LTE	4	1,618.33	97	6.10	1900 MHz (PCS)	1000	0.61%
T-Mobile 1900 MHz (PCS) GSM	2	462.38	97	6.90	1900 MHz (PCS)	1000	0.69%
T-Mobile 1900 MHz (PCS) LTE / 5G NR	4	1,849.52	97	0.90	1900 MHz (PCS)	1000	0.09%
T-Mobile 2100 MHz (AWS) LTE	4	2,972.70	97	10.40	2100 MHz (AWS)	1000	1.04%
T-Mobile 2500 MHz (BRS) LTE / 5G NR	8	4,237.61	97	41.50	2500 MHz (BRS)	1000	4.15%
						Total:	8.69 %

Table 6: T-MOBILE Maximum Sector MPE Power Values



Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-MOBILE facility as well as the site composite emissions estimates value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-MOBILE Sector	Power Density Value (%)
Sector A:	8.69 %
Sector B:	8.69 %
Sector C:	8.69 %
T-MOBILE Maximum Total (per sector):	8.69 %
Site Total:	17.38 %
Site Compliance Status:	COMPLIANT

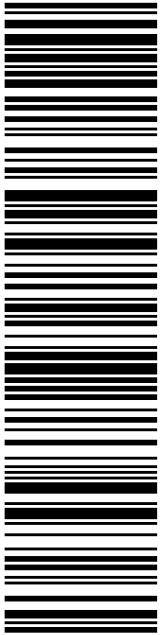
The estimated composite MPE value for this site assuming all carriers present is **17.38 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon the far field calculations performed for all carriers identified in this report.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite estimated values calculated were well within the allowable 100% threshold standard per the federal government.

Scott Heffernan
Principal RF Engineer
Fox Hill Telecom, Inc
Worcester, MA 01609
(978)660-3998

Exhibit G


Recipient Mailings



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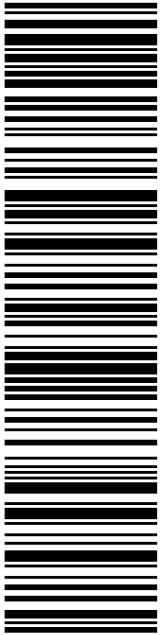
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NORTHEAST SITE SOLUTIONS
46 HUNTINGTON AVE
WORCESTER MA 01606-3543

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N BRANFORD CT 06471-1290

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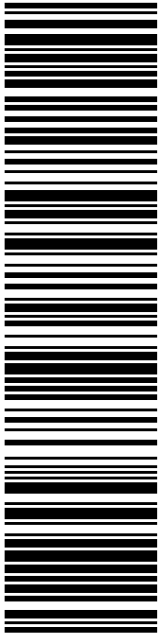


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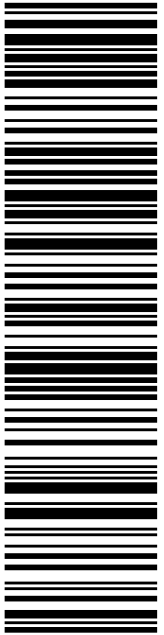
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