

**AMENDMENT NO. 3**  
**LEASE FOR ANTENNA COLLOCATION AND FACILITIES SITE**  
**Between**  
**INCORPORATED COUNTY OF LOS ALAMOS,**  
**An Incorporated County of the State of New Mexico,**  
**As Landlord**  
**And**  
**CELLCO PARTNERSHIP, D/B/A VERIZON WIRELESS,**  
**As Tenant**

This **AMENDMENT NO. 3** is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County" or "Landlord"), and **Cellco Partnership, d/b/a Verizon Wireless** ("Tenant"), to be effective for all purposes May 6, 2024.

**WHEREAS**, the original solicitation for Wireless Communications Facilities Lease, Request for Proposals, No. 2002-1350 (the "RFP") was issued on November 13, 2001; and

**WHEREAS**, County and Tenant, or their predecessors-in-interest, entered into a Lease Agreement for Antenna Collocation and Facilities Site ("Lease Agreement") on July 21, 2005, with the Primary Term of sixty (60) months. The Lease Agreement gave Tenant the right to extend the lease term for five (5) periods of five (5) years each by giving written notice of renewal to County at least ninety (90) days prior to the expiration of the then-current lease term; and

**WHEREAS**, the Primary Term was extended on October 1, 2010; and

**WHEREAS**, the Lease Agreement was amended pursuant to a certain Amendment No. 1 effective April 30, 2011 ("Amendment No. 1"); and

**WHEREAS**, the Lease Agreement was amended pursuant to a certain Amendment No. 2 effective October 1, 2015 ("Amendment No. 2"); and

**WHEREAS**, Tenant wishes to modify some of the major equipment to be used on the site identified in amended Exhibit B-3 of the Lease Agreement. Tenant will replace all nine (9) existing panel antennas with nine (9) new panel antennas; remove six (6) existing Tower Mounted Amplifier (TMA) units; install three (3) new Remote Radio Head (RRH) units; retain six (6) RRH units; retain one (1) hybrid line of coax; retain twelve (12) coaxial cables, Remote Electrical Tilt (RET); and retain one (1) twelve port junction box. All new equipment will be mounted at the very same location and heights as the existing antennas, will not extend beyond their current top height, and the modification will have no impact on the current facility's ground footprint, nor will it require any ground or water tank disturbance, all and only as shown in the ten (10) page plan set last revised on April 6, 2023 ("Plans") that are attached hereto as Exhibit B-4 and incorporated herein by this reference; and

**WHEREAS**, Tenant intends that Landlord rely on and Landlord does rely on the accuracy and reliability of all of the information in Exhibits B-4 (engineered plans); and

**WHEREAS**, Council now ratifies and affirms the award of this Amendment No. 3 and finds that ratification and affirmation of this Amendment No. 3 is in the best interest of County; and

**WHEREAS**, The Board of Public Utilities approved this Amendment No. 3 at a public meeting held on February 21, 2024; and

**WHEREAS**, the County Council approved this Amendment No. 3, by Ordinance No. 730, at a public meeting held on March 26, 2024.

**NOW, THEREFORE**, for good and valuable consideration, County and Tenant agree as follows:

I. The Tenant agrees that in connection with this Amendment No. 3 the County is acting solely within its proprietary rights and authority as a property owner.

II. To include a new Exhibit B-3 attached hereto, in its entirety. Exhibit B-3 is intended to supplement Exhibit B and Exhibit B-1 to the Lease Agreement. To the extent of a conflict between Exhibit B or Exhibit B-1 and Exhibit B-3, Exhibit B-3 shall control.

III. ADMINISTRATIVE AND SITE REVIEW FEE. Within ninety (90) days after the parties fully execute this Amendment No. 3, Tenant shall pay to Landlord a nonrefundable one-time administrative and site review fee equal to FIFTEEN THOUSAND DOLLARS (\$15,000.00) to cover Landlord's costs to review and execute this Amendment No. 3. The Administrative and Site Review Fee shall not be any offset to any Rental owed under this Third Amendment and is fully earned and non-refundable by Landlord upon the full execution of this Third Amendment.

Except as expressly modified by this Amendment No. 3, the Lease Agreement is hereby ratified and reaffirmed, and the terms and conditions of the Lease Agreement remain unchanged and in effect.

**IN WITNESS WHEREOF**, the parties have executed this Amendment No. 3 on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on May 6, 2024.

**ATTEST**

**INCORPORATED COUNTY OF LOS ALAMOS**

\_\_\_\_\_  
**NAOMI D. MAESTAS**  
**COUNTY CLERK**

BY: \_\_\_\_\_  
**PHILO S. SHELTON III, P.E.** **DATE**  
**UTILITIES MANAGER**

**Approved as to form:**

\_\_\_\_\_  
**J. ALVIN LEAPHART**  
**COUNTY ATTORNEY**

STATE OF NEW MEXICO            )  
  : SS  
COUNTY OF LOS ALAMOS        )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of May 2024,  
by Philo S. Shelton III, P.E., Utilities Manager for the Incorporated County of Los Alamos.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_

Cellco Partnership,  
D/B/A Verizon Wireless

By:

\_\_\_\_\_  
Name:

\_\_\_\_\_  
Date:

\_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF ARIZONA                    )  
  : SS  
COUNTY OF MARICOPA            )

On \_\_\_\_\_, 2024, before me, \_\_\_\_\_,  
Notary Public, \_\_\_\_\_, who proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the within instrument and  
acknowledged to me that he executed the same in his authorized capacity, and that by his  
signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Arizona that the  
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of notary Public

(Seal)



## EXHIBIT B-3

### Amendment No. 3

#### Verizon North Mesa Water Tower Equipment Changes

##### REMOVING:

- Nine (9) existing panel antennas
- Six (6) existing TMA Units

##### INSTALLING:

- Nine (9) new panel antennas
- Three (3) RRH units

##### RETAINING:

- Six (6) RRH Units
- One (1) hybrid line of coax
- Twelve (12) coaxial cables (RET)
- One (1) twelve port junction box



TI	TITLE SHEET	A
GN1	GENERAL NOTES	A
GN2	GENERAL NOTES	A
GN3	SYMBOLS & ABBREVIATIONS	A
C1	SITE PLAN	A
C2	EQUIPMENT PLAN	A
C3	EXISTING AND PROPOSED TOWER ELEVATIONS	A
C4	EXISTING AND PROPOSED ANTENNA PLANS	A
CS	RF DATA SHEET & COAX ANTENNA DIAGRAM	A
G1	GROUNDING DETAILS	A



ComSite

ENGINEERING, LLC

3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404.825.0981



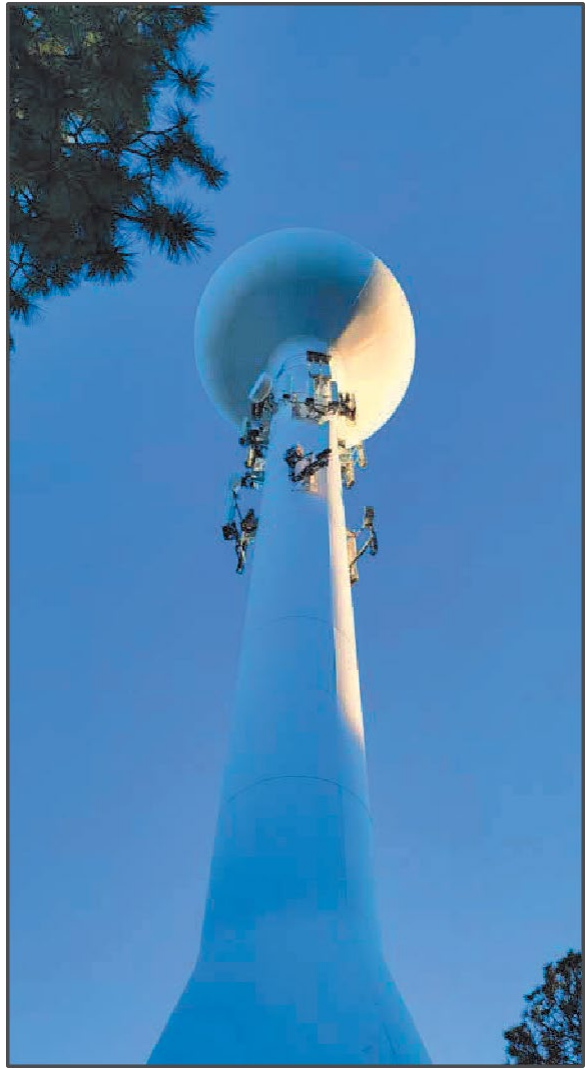












OVERALL VIEW OF EXISTING TOWER



VIEW OF ALPHA SECTOR



VIEW OF BETA SECTOR



VIEW OF GAMMA SECTOR



4821 EUBANK BLVD NE  
ALBUQUERQUE, NM 87111

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404.825.0984

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REV	DATE	DESCRIPTION	
0	04/06/23	ISSUED FOR CONSTRUCTION	
A	04/05/23	ISSUED FOR REVIEW	



IT IS A VIOLATION OF LAW FOR ANY PERSON WHOSE NAME IS LISTED AS THE DESIGNER OF THIS DOCUMENT TO BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO WITHOUT BEING A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO. THE EXISTING ENGINEER IS NOT A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO. THE EXISTING ENGINEER IS NOT A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO. THE EXISTING ENGINEER IS NOT A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO.

SITE NAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

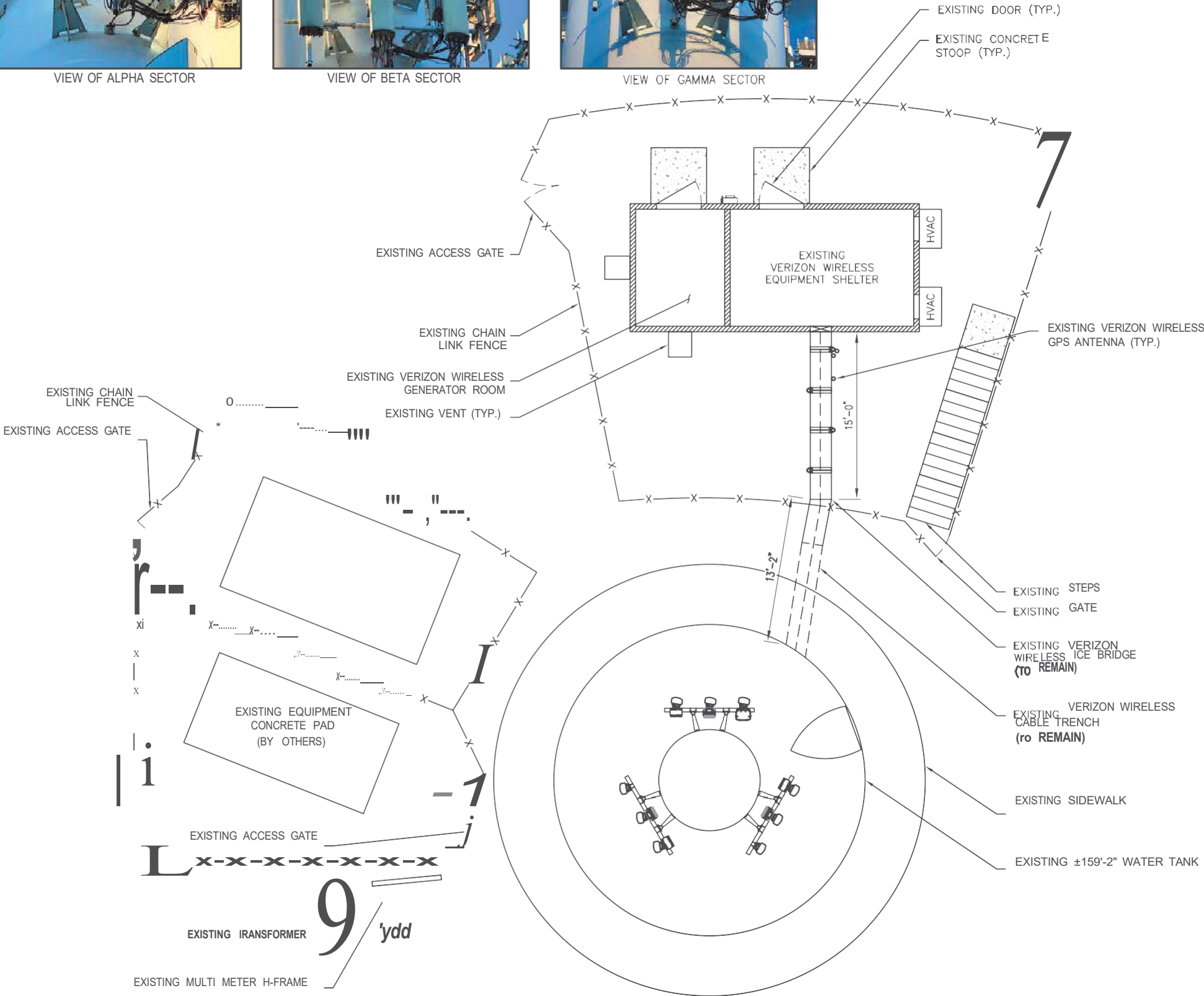
SHEET TITLE:

SITE PLAN

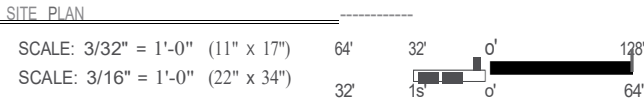
SHEET NUMBER:

C1

Attachment B



- NOTE:
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO VERIZON, CONSTRUCTION MANAGER, AND ELECTRICAL DESIGNER AND COORDINATION ENGINEER.
  - BY OTHERS.
  - INFORMATION SHOWN FOR DEPICTION PURPOSES ONLY. THIS INFORMATION IS NOT A LEGAL BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH.
  - EXISTING UNDERGROUND UTILITIES ARE LIKELY TO BE PRESENT THROUGHOUT THE COMPOUND. THE EXACT LOCATIONS ARE UNKNOWN. CONTRACTOR TO CONDUCT UNDERGROUND UTILITY LOCATES PRIOR TO CONSTRUCTION.

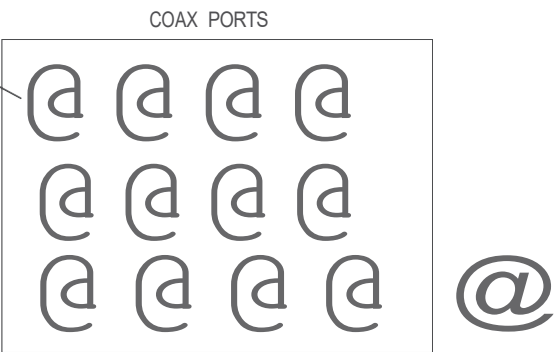




- NOTE:
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO VERIZON, CONSTRUCTION MANAGER, AND ENGINEER.
  2. HVAC LOADING AND ELECTRICAL DESIGNS AND COORDINATION BY OTHERS.
  3. INFORMATION SHOWN FOR DEPICTION PURPOSES ONLY. THIS INFORMATION IS NOT A LEGAL BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH.
  4. EXISTING UNDERGROUND UTILITIES ARE LIKELY TO BE PRESENT THROUGHOUT THE COMPOUND. THE EXACT LOCATIONS ARE UNKNOWN. CONTRACTOR TO CONDUCT UNDERGROUND UTILITY LOCATES PRIOR TO CONSTRUCTION.

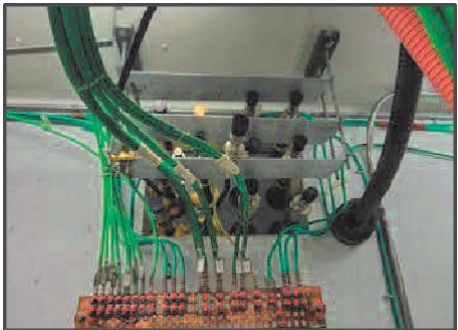
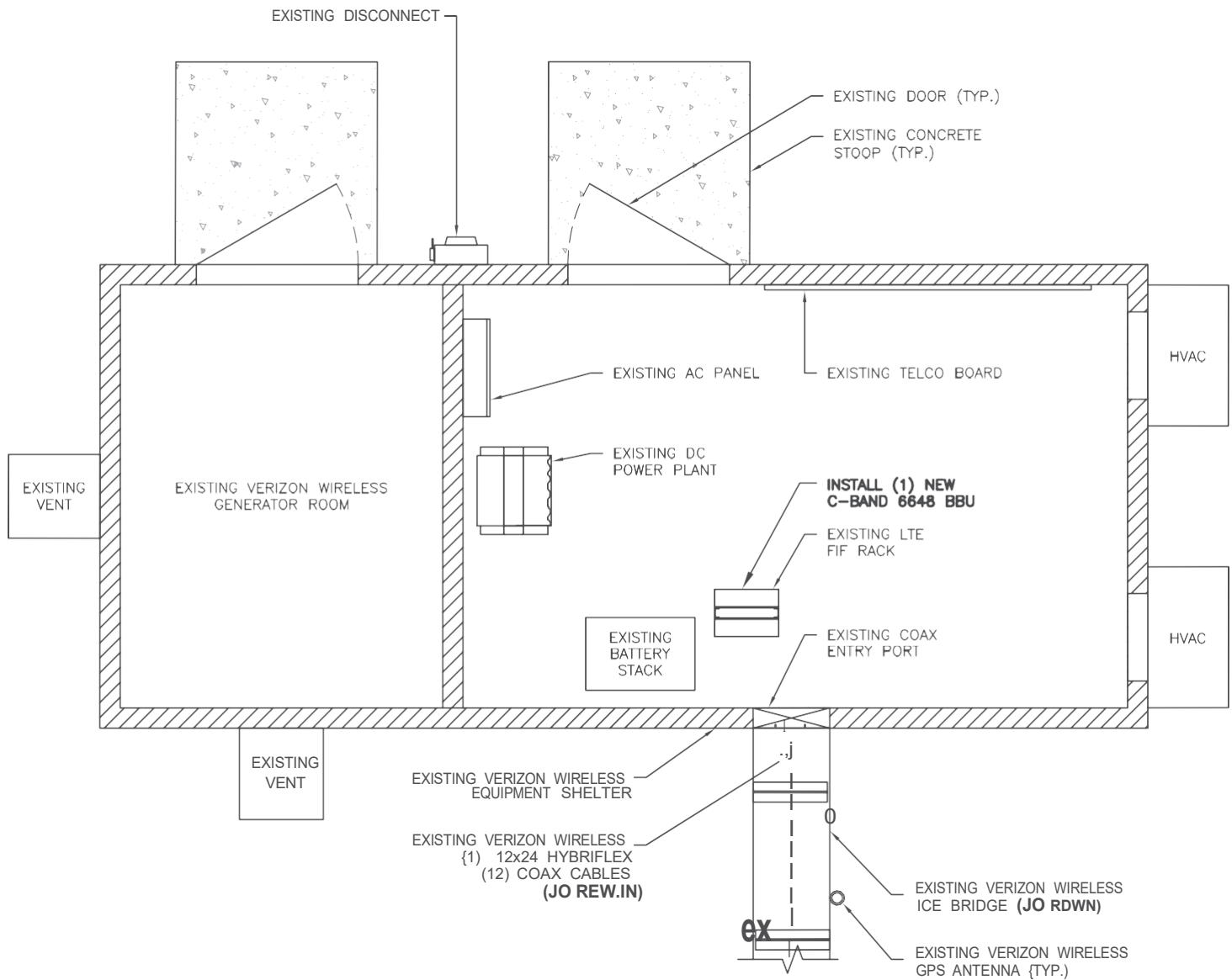


EXISTING 4" DIAMETER (TYP.)

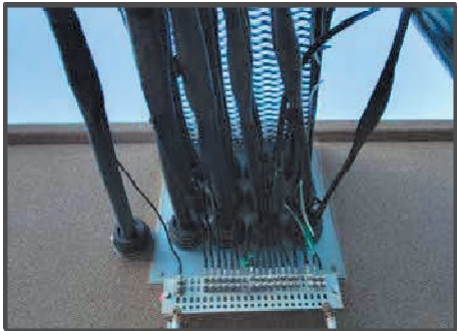


TDIAGRAM

L=EMPTY  
U=USED



INSIDE VIEW OF COAX ENTRY PORT



OUTSIDE VIEW OF COAX ENTRY PORT

EXISTING ESTIMATED CABLE LENGTHS\*

SECTOR	ALPHA	BETA	GAMMA
HORIZ.	±38'	±38'	±38'
VERT	±107'	±107'	±107'
+10%	±15'	±15'	±15'
TOTAL (FT)	±160'	±160'	±160'

\*ALL DIMENSIONS TO BE VERIFIED IN FIELD (V.I.F.)

COAX CONFIGURATION & CABLE LENGTHS



4821 EUBANK BLVD NE  
ALBUQUERQUE, NM 87111

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ENGINEERING, LLC  
3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404.825.0981

DRAWN BY: MA CHECKED BY: PC

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A	04/05/23	ISSUED FOR REVIEW
REV	DATE	DESCRIPTION



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SITE NAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

SHEET TITLE:

EXISTING  
EQUIPMENT PLAN

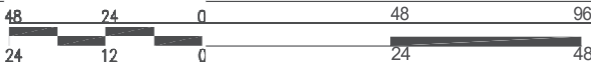
SHEET NUMBER:

C2

Attachment B

EXISTING EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" (11" x 17")  
SCALE: 1/2" = 1'-0" (22" x 34")



NOTE:  
INSTALL ALL ANTENNAS AND EQUIPMENT PER THE MOUNT &  
STRUCTURAL ANALYSIS. COORDINATE *Any* MODIFICATIONS WITH  
VERIZON WIRELESS CM AND ENGINEER.



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ENGINEERING, LLC  
3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404 • 825-0981

DRAWN BY: MA | CHECKED BY: PC

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SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD  
LOS ALAMOS, NM 87544

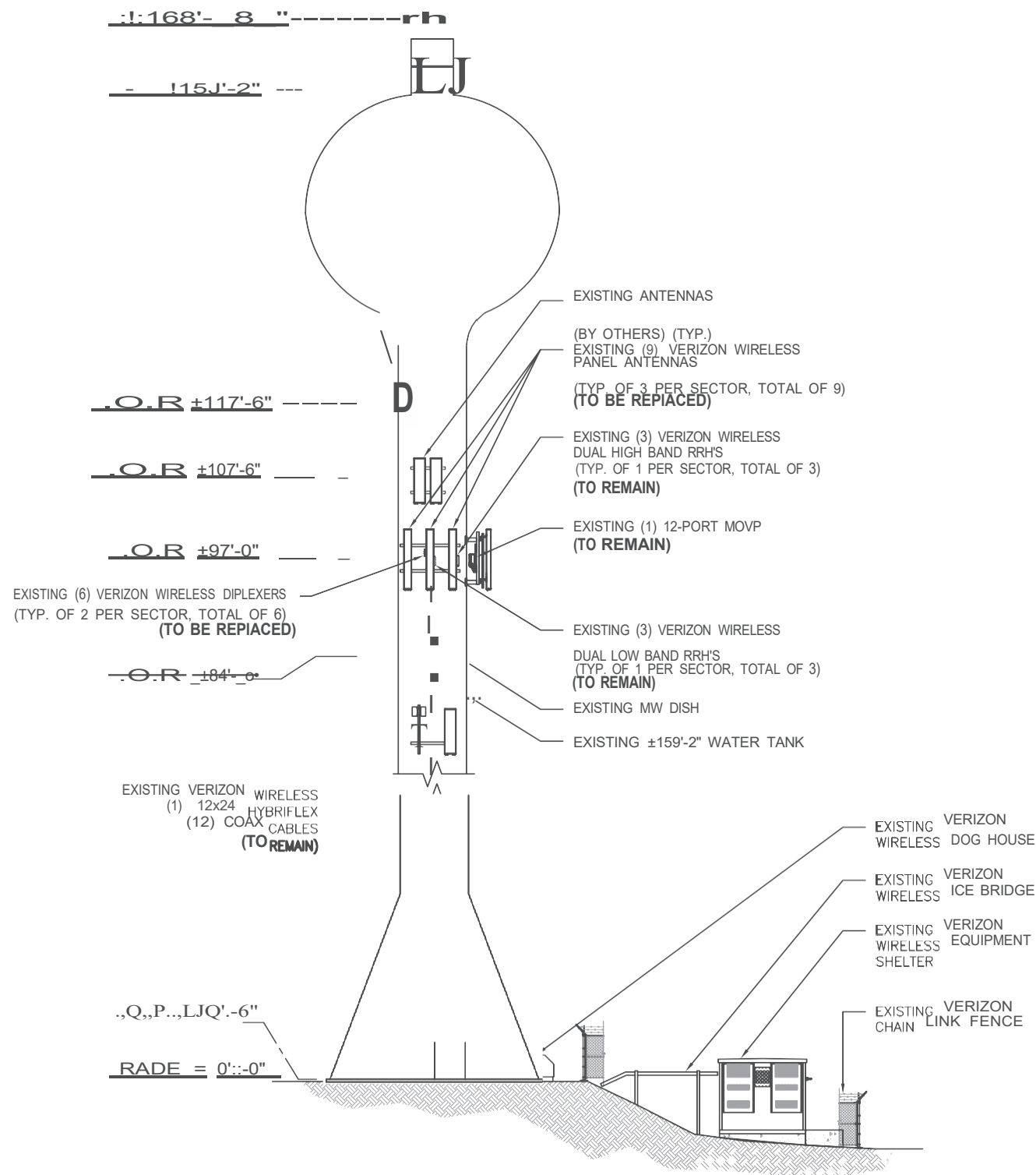
SITE TYPE: WATER TANK

SHEET TITLE:

**TOWER ELEVATION  
EXISTING/ PROPOSED**

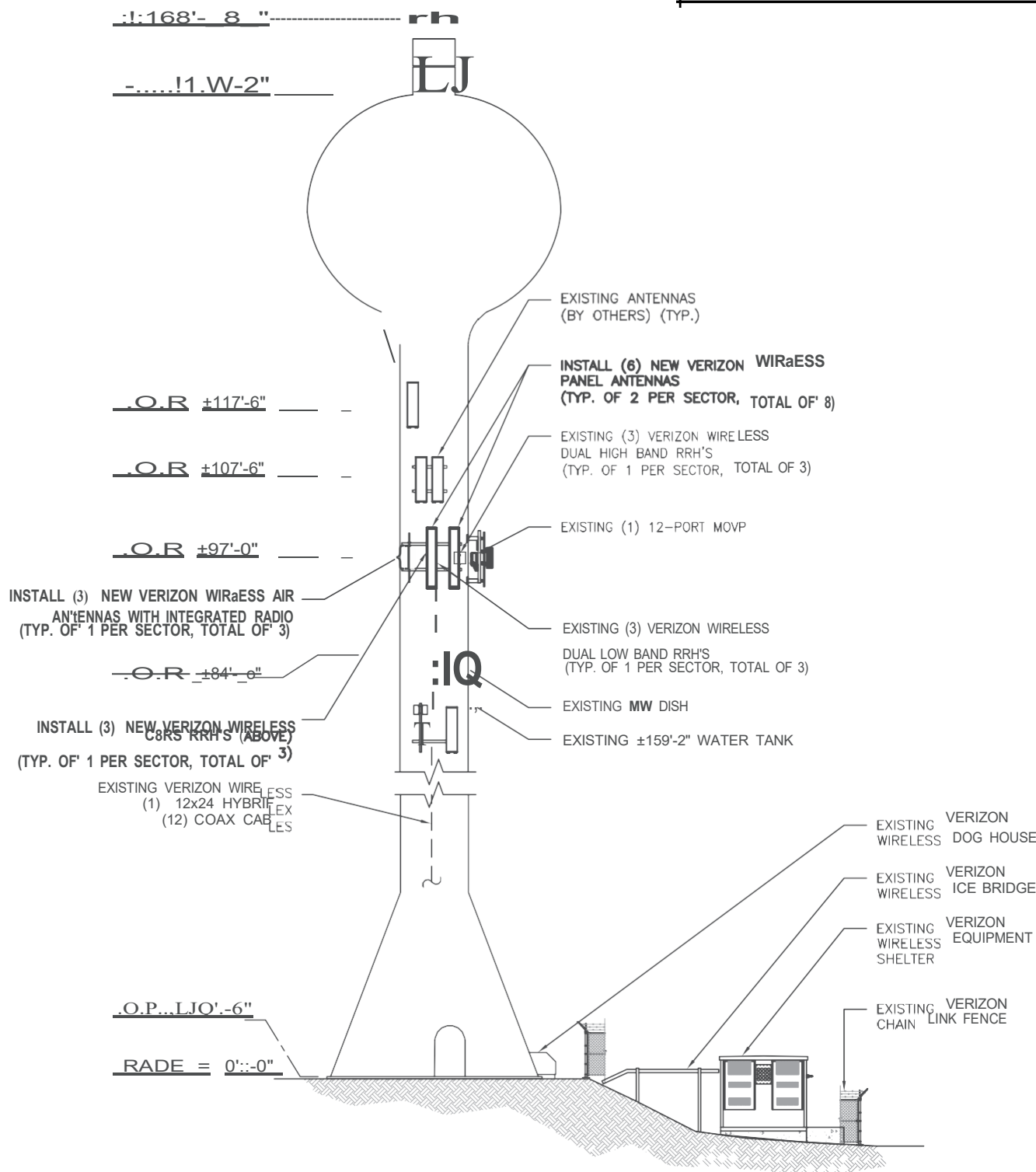
SHEET NUMBER:

C3  
Attachment B



EXISTING ELEVATION

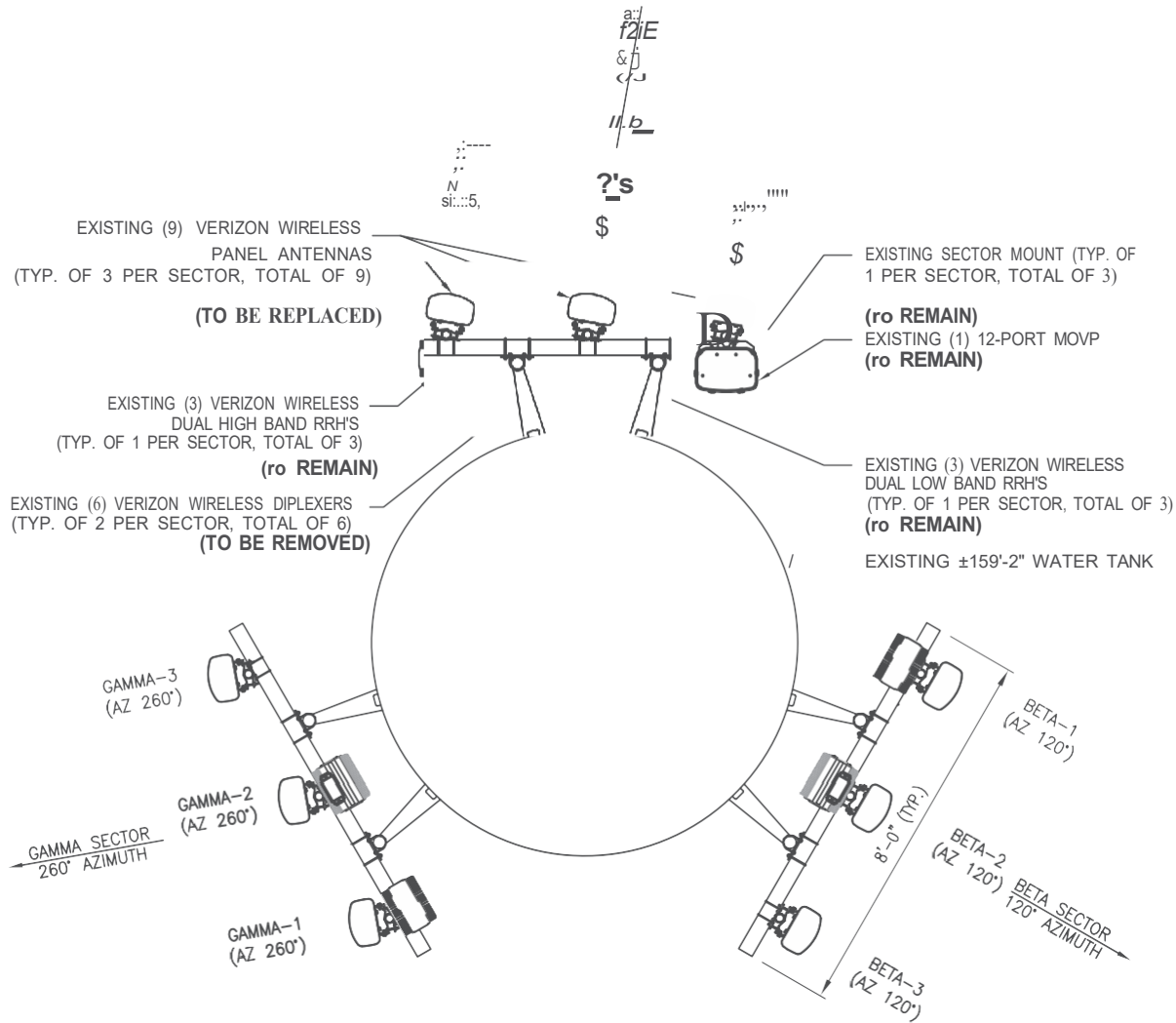
SCALE: 1" = 1/4" - O' (22' X 34')

PROPOSED ELEVATION

1. COMSITE ENGINEERING, LLC HAS NOT PERFORMED A STRUCTURAL ANALYSIS FOR THE STRUCTURAL CAPACITY OF THE TOWER, FOUNDATION, MOUNTS, **ANTENNAS**, RADIOS, CABLES OR *Afr* OTHER APPURTENANCE ON THE STRUCTURE. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED BY OTHERS FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF *Afr* EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT *Afr* DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO VERIZON AND THE ENGINEER.
2. REFER TO THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF ALL MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW APPURTENANCES.
3. REFER TO ADDITIONAL DRAWINGS SPECIFIC TO STRUCTURE REINFORCEMENT FOR THIS SITE SHOULD THERE BE A REQUIREMENT FOR *Afr* REINFORCEMENT.
4. REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DETAILS.
5. REFER TO STRUCTURAL ANALYSIS FOR ALL CARRIERS' APPURTENANCES AS THEY MAY NOT BE SHOWN IN ELEVATION DETAIL



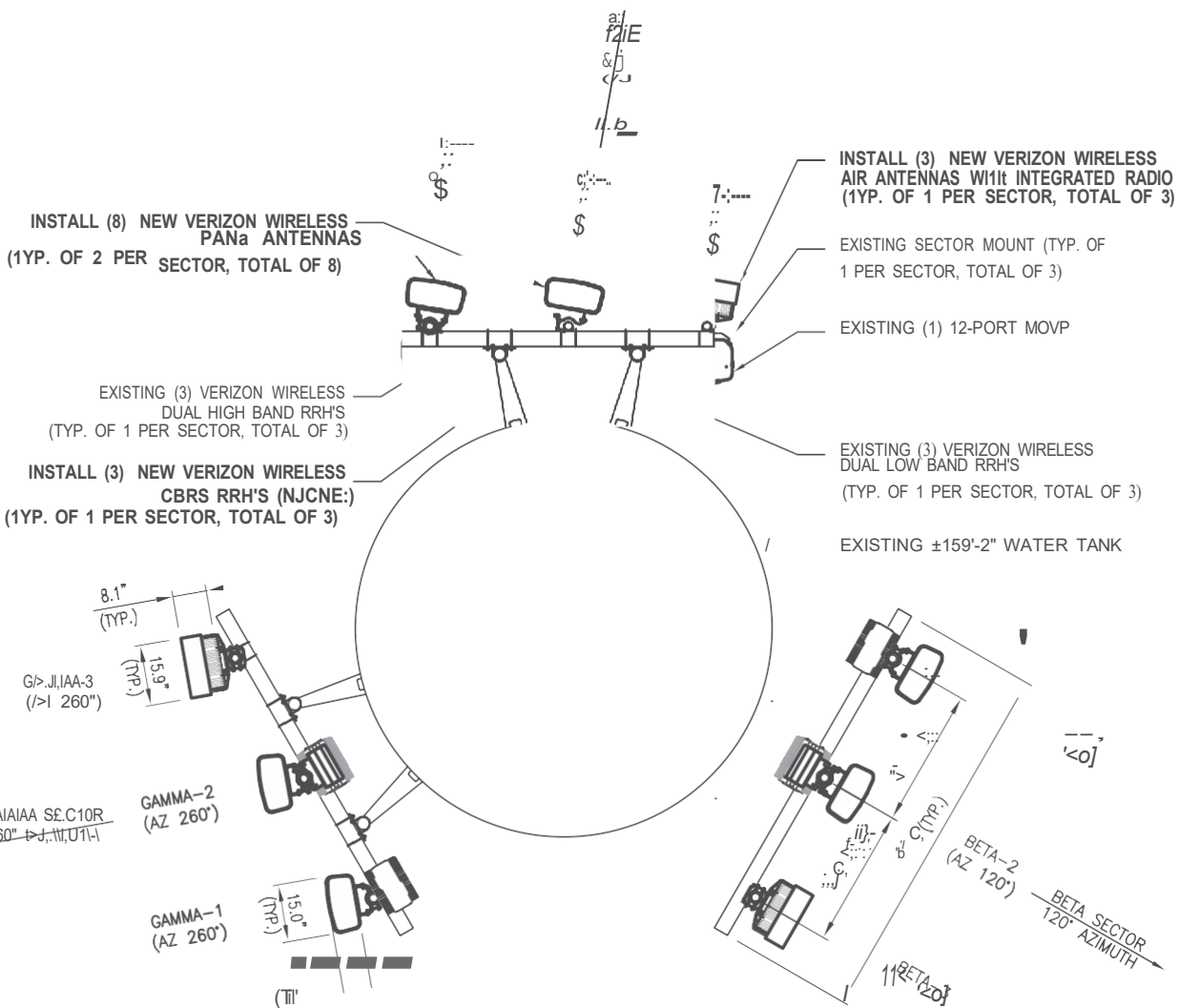
NOTE:  
CONTRACTOR TO VERIFY THE FINAL RF CONFIGURATION MATCHES THESE DRAWINGS PRIOR TO THE REMOVAL AND INSTALLATION OF NEW EQUIPMENT. CONTRACTOR TO REPORT ALL DISCREPANCIES TO VERIZON CONSTRUCTION MANAGER AND ENGINEER.



[2J] EXISTING ANTENNA PLAN

ELEMENTS OF THE ORIENTATION DIAGRAM SHOWN ABOVE ARE SCALED TO:			
SCALE: 1/4" = 1'-0" (11" x 17")	32	16	0
SCALE: 1/8" = 1'-0" (22" x 34")	64	32	0
THESE ELEMENTS ARE: THE ANTENNA MOUNT FACE WIDTH, ANTENNA WIDTH, DISTANCE BETWEEN ANTENNAS (EDGE-TO-EDGE) & DETAIL.			

NOTE:  
INSTALL ALL ANTENNAS AND EQUIPMENT PER THE MOUNT & STRUCTURAL ANALYSIS. COORDINATE ALL MODIFICATIONS WITH VERIZON WIRELESS CM AND ENGINEER.



PROPOSED ANTENNA PLAN

- COMSITE ENGINEERING, LLC HAS NOT PERFORMED A STRUCTURAL ANALYSIS FOR THE STRUCTURAL CAPACITY OF THE TOWER, FOUNDATION, MOUNTS, ANTENNAS, RADIOS, CABLES OR NEW OTHER APPURTENANCE ON THE STRUCTURE. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED BY OTHERS FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF NEW EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT ALL DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO VERIZON AND THE ENGINEER.
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4821 EUBANK BLVD NE  
ALBUQUERQUE, NM 87111

**ComSite**  
ENGINEERING, LLC  
3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404-825-0984

DRAWN BY: MA CHECKED BY: PC

REV	DATE	DESCRIPTION
0	04/06/23	ISSUED FOR CONSTRUCTION
A	04/05/23	ISSUED FOR REVIEW



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ENGINEER TO ALTER THIS DOCUMENT UNLESS EXPLICITLY  
10 1/4 COMSITE ENGINEERING, LLC IN WRITING. NO COMSITE  
ENGINEERING, LLC DISCLOSES ANY INFORMATION THAT MAY BE  
REUSE, ALTERATION OR VIOLATION OF THE CONTENTS HEREIN.

SITE NAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATERTANK

SHEET TITLE:

**ANTENNA PLAN  
EXISTING / PROPOSED**

SHEET NUMBER:

**C4**  
Attachment B

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## 0 PROPOSED NON ANTENNA EQUIPMENT

## Equipment Summary



**ComSite**  
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ATLANTA, GA 30341  
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SITE VAME: NM4 QUEMAZON

SITE TYPE: WATER TANK

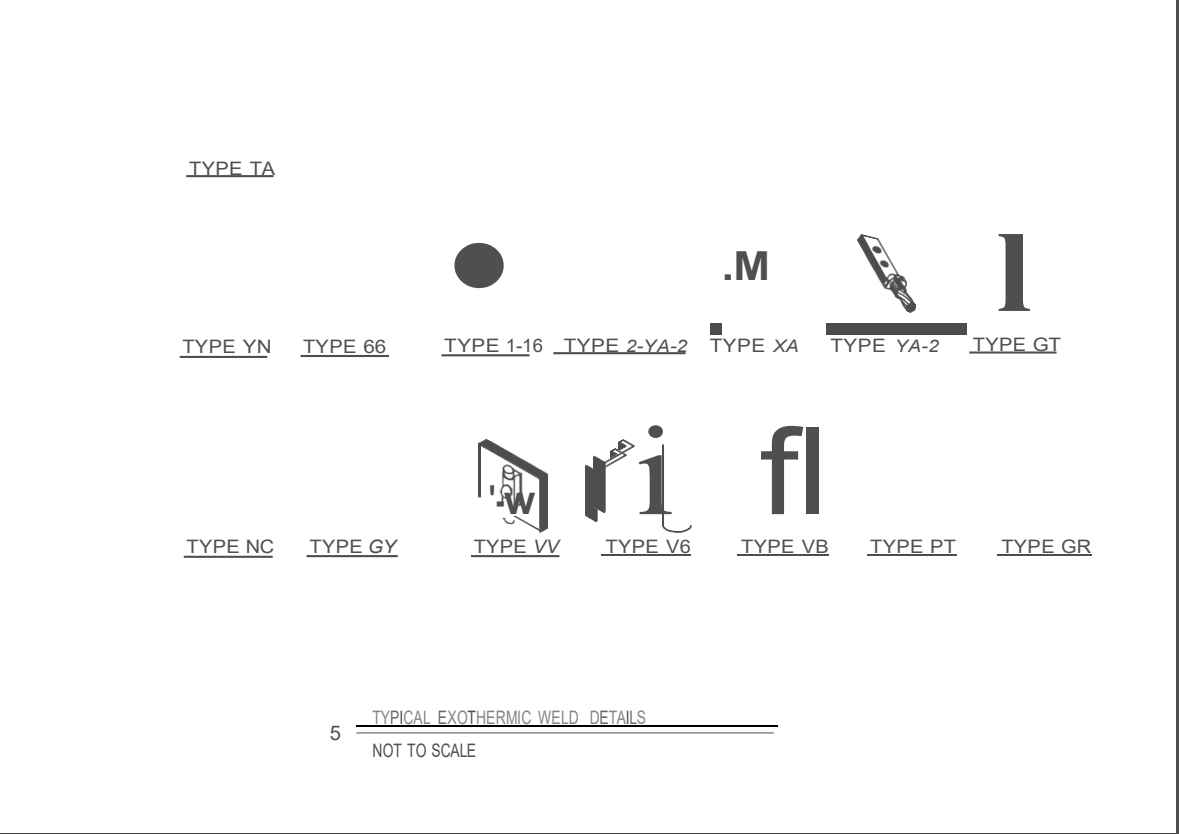
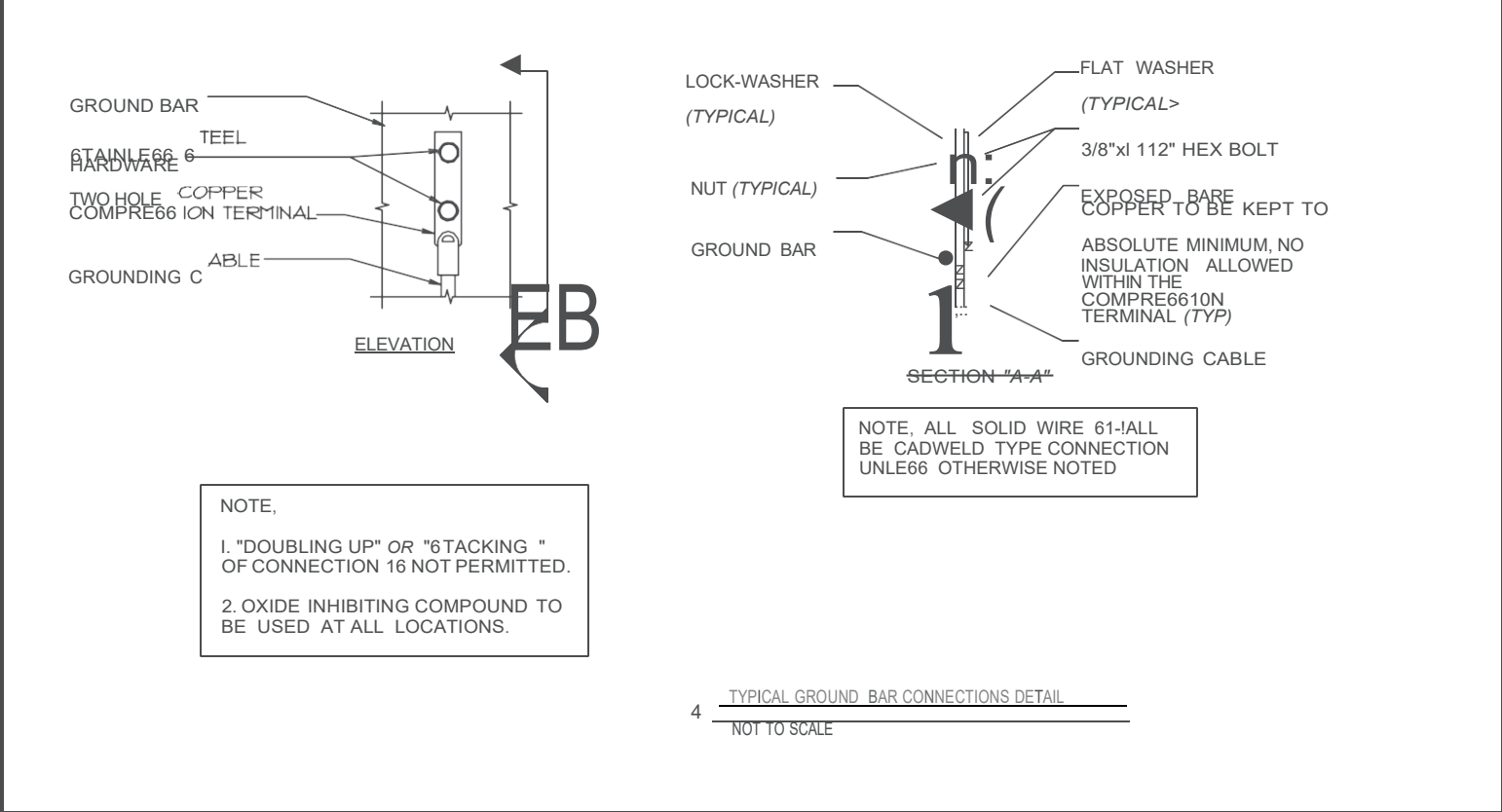
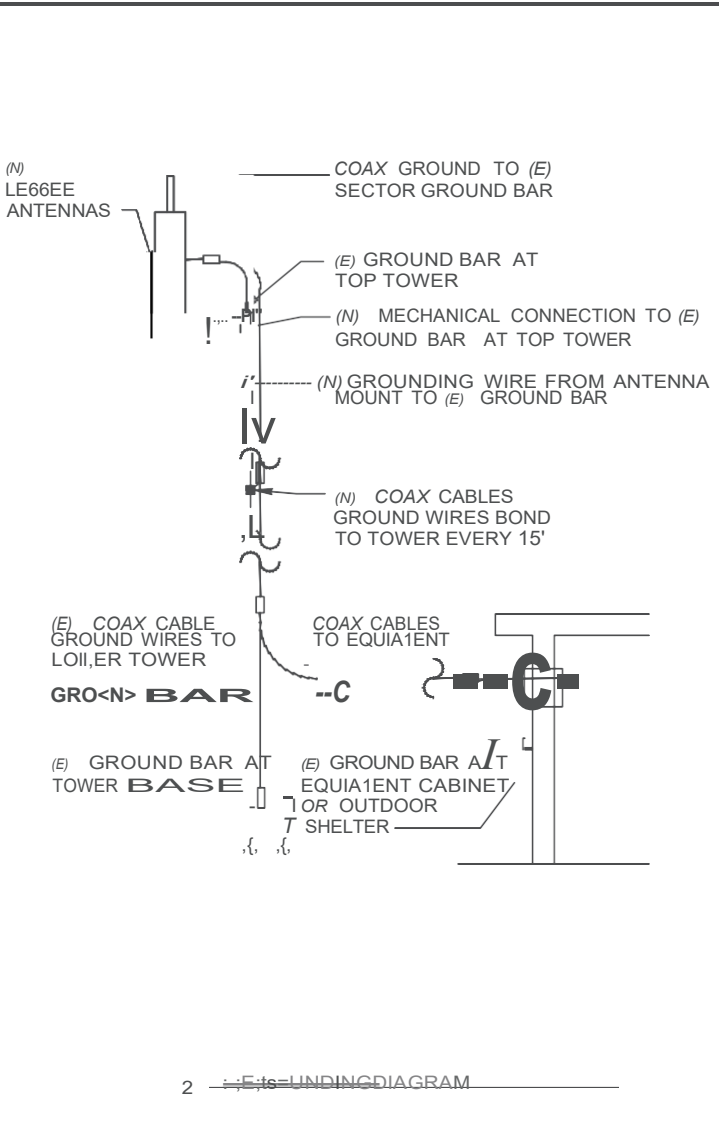
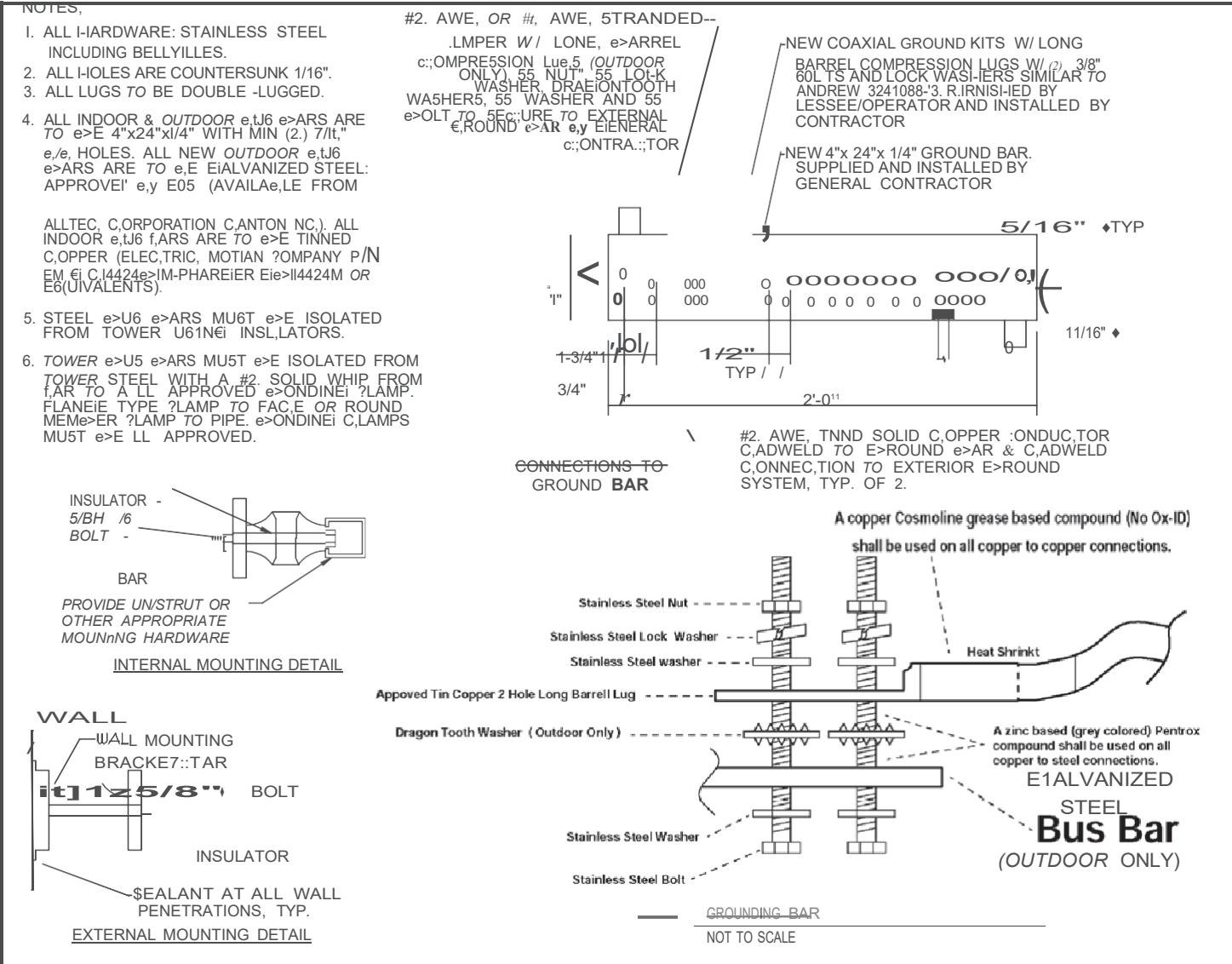
SHEET TITLE:

## RF DATA SHEET & COAX ANTENNA DIAGRAM

SHEET NUMBER:

**CS**  
Attachment B





**verizon**wireless

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ALBUQUERQUE, NM 87111

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ATLANTA, GA 30341  
(404) 825-0081

DRAWN BY: MA CHECKED BY: PC

REV	DATE	DESCRIPTION
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A	04/05/23	ISSUED FOR REVIEW

**PATRICK J. COLLINS**  
NEW MEXICO  
22933  
PROFESSIONAL ENGINEER  
4/7/2023

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SITE NAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

SHEET TITLE:  
**GROUNDING DETAILS**

SHEET NUMBER:  
**G1**  
Attachment B

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- II. To include a new Exhibit B-3 attached hereto, in its entirety. Exhibit B-3 is intended to supplement Exhibit B and Exhibit B-1 to the Lease Agreement. To the extent of a conflict between Exhibit B or Exhibit B-1 and Exhibit B-3, Exhibit B-3 shall control.
- III. **ADMINISTRATIVE AND SITE REVIEW FEE.** Within ninety (90) days after the parties fully execute this Amendment No. 3, Tenant shall pay to Landlord a nonrefundable one-time administrative and site review fee equal to FIFTEEN THOUSAND DOLLARS (\$15,000.00) to cover Landlord's costs to review and execute this Amendment No. 3. The Administrative and Site Review Fee shall not be any offset to any Rental owed under this Third Amendment and is fully earned and non-refundable by Landlord upon the full execution of this Third Amendment.

Except as expressly modified by this Amendment No. 3, the Lease Agreement is hereby ratified and reaffirmed, and the terms and conditions of the Lease Agreement remain unchanged and in effect.

**IN WITNESS WHEREOF**, the parties have executed this Amendment No. 3 on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on April 1, 2024.

**ATTEST**

**INCORPORATED COUNTY OF LOS ALAMOS**

\_\_\_\_\_  
**NAOMI D. MAESTAS**  
COUNTY CLERK

BY: \_\_\_\_\_  
**PHILO S. SHELTON III, P.E.**                      **DATE**  
**UTILITIES MANAGER**

**Approved as to form:**

\_\_\_\_\_  
**J. ALVIN LEAPHART**  
COUNTY ATTORNEY

STATE OF NEW MEXICO                    )  
  : SS  
COUNTY OF LOS ALAMOS                )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of May 2024,  
by Philo S. Shelton III, P.E., Utilities Manager for the Incorporated County of Los Alamos.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_

Cellco Partnership,  
D/B/A Verizon Wireless

By:

\_\_\_\_\_  
Name:

\_\_\_\_\_  
Date:

\_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF ARIZONA                    )  
  : SS  
COUNTY OF MARICOPA            )

On \_\_\_\_\_, 2024, before me, \_\_\_\_\_,  
Notary Public, \_\_\_\_\_, who proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the within instrument and  
acknowledged to me that he executed the same in his authorized capacity, and that by his  
signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Arizona that the  
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of notary Public

(Seal)

## EXHIBIT B-3

### Amendment No. 3

#### Verizon North Mesa Water Tower Equipment Changes

##### REMOVING:

- Nine (9) existing panel antennas
- Six (6) existing TMA Units

##### INSTALLING:

- Nine (9) new panel antennas
- Three (3) RRH units

##### RETAINING:

- Six (6) RRH Units
- One (1) hybrid line of coax
- Twelve (12) coaxial cables (RET)
- One (1) twelve port junction box







SITE WORK GENERAL NOTES

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE SUBCONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIPS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:  
a) FALL PROTECTION b) CONFINED SPACE c) ELECTRICAL SAFETY d) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY RUBISH, STUMPS, DEBRIS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING UNACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE VERIZON WIRELESS SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BITS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THA AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SIRE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

# STRUCTURAL STEEL NOTES

1. ALL STEEL SHALL BE GALVANIZED PER ASTM A 123, AND CONFORM TO THE FOLLOWING MINIMUM SPECS:
  - ASTM A500, GR. B
  - WSS SHAPES
  - W-SHAPE & CHANNELS
  - ASTM A572, GR. 50
  - WSS ANGLES & PLATES
  - ASTM A36
  - BASE PLATES
  - ASTM GR. 36
2. ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM GRADE A325 UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE EQUIPPED WITH A PROPER, AND APPROVED NUT-LOCKING DEVICE.
3. ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY; WELDING ELECTRODES SHALL BE E70XX.
4. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND CODES, LATEST EDITION.
5. THE CONTRACTOR SHALL SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL TO THE ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FAB. AND/OR ERECTION.
6. TORCH-CUTTING OF ANY KIND SHALL NOT BE PERMITTED.1.
7. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
8. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODE AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZE ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE D2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
9. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
10. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
11. POST INSTALLED ANCHORS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 305-118-00013 "SELECTION, DESIGN, INSTALLATION, INSPECTION AND TESTING OF ADHESIVE AND MECHANICAL EXPANSION ANCHORS FOR WIRELESS SITE FACILITIES". ANCHORS SHALL BE HLIT OR APPROVED EQUAL INSTALLED, INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAWINGS. NO REINFORCING STEEL SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL.

## WOOD FRAMING NOTES

ALL TIMBER JOISTS & LEDGER SHALL CONFORM TO THE FOLLOWING MINIMUM STRUCTURAL PROPERTIES:

$$F_b = 1,300 \text{ psi}$$

$E = 1.300 \text{ ksi}$

CONCRETE NOTES:

1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI @28 DAYS
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
3. CONTRACTOR SHALL PROVIDE CLEARANCE FOR ALL REBAR OF 3" UNLESS NOTED OTHERWISE
4. ALL REBAR SHALL BE SUPPORTED ABOVE SOIL SURFACE WITH ACI-APPROVED METAL REBAR CHAIRS.

STUCCO NOTES:

- STUCCO MESH SHALL BE GALVANIZED HEXAGONAL WOVEN SIDE MESH  $1\frac{1}{2}'' \times 17$  GA., SELF FURRED.
- EXTERIOR GALVANIZED DIAMOND MESH LATH OF 3.4 lbs. PER SQ. YD. MAY BE USED INSTEAD OF STUCCO NETTING.
- THREE COAT STUCCO SYSTEM TO BE USED CONSISTING OF MANUFACTURER'S STANDARD PRODUCTS CONSISTING OF BASECOAT, SCRATCH COAT AND FINISH COAT MATERIALS. FIBER-REINFORCED PORTLAND CEMENT PLASTER BASECOAT TO BE USED.
- INSTALLATION OF METAL SUPPORT SYSTEMS SHALL COMPLY WITH ASTM C 754.
- CONTRACTOR TO APPLY DIAMOND MESH AT ALL CORNERS AND OPENINGS.
- CONTRACTOR TO PROVIDE EXPANSION AND CONTROL JOINTS WHERE NOTED ON PLANS AND AT ALL DISSIMILAR MATERIALS JOINTS.
- CONTRACTOR TO MOIST CURE EACH BASECOAT WITH CLEAN POTABLE WATER FOR 48-72 HOURS FOLLOWING INITIAL BASECOAT APPLICATION, ALLOW BROWN COAT TO AIR CURE FOR AN ADDITIONAL 7-10 DAYS BEFORE THE APPLICATION OF THE CEMENT BASED FINISH COATS.

CONCRETE MASONRY UNIT (CMU) NOTES:

- CONCRETE MASONRY UNITS (CMU) PER ASTM C90.
  - A. PROVIDE CMU WITH AN AVERAGE UNIT COMPRESSIVE STRENGTH OF 1900 PSI.
  - B. PROVIDE NOMINAL FACE DIMENSIONS OF 8"x8"x16 1/2" & ACTUAL DIMENSIONS OF 7'-5/8"x7'-5/8"x15'-5/8". PROVIDE SPECIAL SHAPES AS REQUIRED AT CORNERS, JAMBS, & BOND BEAMS
  - C. PROVIDE TYPE I, MOISTURE CONTROLLED UNITS.
  - D. PROVIDE NORMAL WEIGHT UNITS.
- MORTAR
- A. EXTERIOR WALLS ABOVE GRADE: TYPE S, 1/4 TO 1/2 PART HYDRATED LIME TO 1 PART PORTLAND CEMENT BY VOLUME.
  - B. EXTERIOR WALLS AT OR BELOW ON GRADE: TYPE M, 1/4 PART HYDRATED LIME TO 1 PART PORTLAND CEMENT BY VOLUME.
  - C. PORTLAND CEMENT: ASTM C150, TYPE I OR II.
  - D. HYDRATED LIME: ASTM C207, TYPE S.
- GROUT PER ASTM C476.
- PROVIDE REINFORCING STEEL AND GROUT SOLID THREE CORNER CELLS AT ALL CORNER LOCATIONS.
- AT WALL OPENINGS & END OF WALL LOCATIONS, PROVIDE REINFORCING & GROUT SOLID LAST TWO CELLS, OR THE TWO CELLS ON EITHER SIDE OF OPENING.
- GROUT SOLID ALL BOND BEAMS. RUN REINFORCING CONTINUOUS AROUND ALL CORNERS WITH APPROPRIATE SPLICES.
- ALL CMU BLOCK TO HAVE EXTERIOR DECORATIVE FINISH TO MATCH BLOCK WALL OF ADJACENT BUILDING. CMU BLOCK WALL TO BE FINISHED TO MATCH ADJACENT BUILDING.

## ROUNDING 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), SITE-SPECIFIC (UL, LP, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA UNDOING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR RESOLUTION.
- ALL GROUNDING ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER SYSTEMS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ORDNANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND TIA) FOR NEW GROUNDING ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUNDING 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 POWER CIRCUITS TO BITS EQUIPMENT.
- EACH BITS CABINET SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS; 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND TIGHTENED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
- ALUMINUM CONDUCTOS OR COPPER CLAD STEEL CONDUCTORS SHALL NOT BE USE 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 AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE U. APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METAL CONDUITS, METAL SUPPORTS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METALLIC CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.)

## ELECTRICAL INSTALLATION NOTES

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELLORDA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT BF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELLORDA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTORS AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL).
6. THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL ELECTRICAL COMPONENTS SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR CAPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
10. ALL TE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TE WRAPS.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR LARGER), 600V, OIL RESISTANT THIN OR THIN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR LARGER), 600V OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS (FOR 90° C (WET AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75° C (90° C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH MSHA, UL, ANSI/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED FOR OUTDOOR LOCATIONS, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEC, ANSI/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PAINDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

**verizon**wireless

4821 EUBANK BLVD NE  
ALBUQUERQUE, NM 87111

**ComSite**  
ENGINEERING, LLC  
3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404 • 825-0981

[illegible]

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT UNLESS EXPLICITLY AGREED TO BY CONSITE ENGINEERING LLC IN WRITING, AND CONSITE ENGINEERING LLC DISCLAIMS ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE NAME: NM4 QUEMAZON

ADDRESS: 280 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

**SHEET TITLE:**

**GENERAL NOTES:**  
**SITE WORK, GROUNDING,**  
**STEEL & ELECTRICAL**

**SHEET NUMBER:**

GN1





SYMBOLS & ABBREVIATIONS

SYMBOLS USED AS ABBREVIATIONS

&	and
L	angle
⊙	at
⊕	centerline
└	channel
d	penny
└	perpendicular
℞	plate
#	round, number
⌀	round
⊠	square
w/	with

ELEVATION SPECIFIC ABBREVIATIONS

C.O.R. =	CENTER OF RADIATION
A.L. =	ATTACHMENT LEVEL
B.T. =	BOTTOM TIP LEVEL
T.T. =	TOP TIP LEVEL
T.O.S. =	TOP OF STRUCTURE
T.O.C. =	TOP OF CONCRETE
B.O.B.P. =	BOTTOM OF BASE PLATE

COMMON ABBREVIATIONS

ABV	above
AFF	each face
ACC	each way
ACFL	access
AC PNL	access floor
AC	acoustical
ACPL	acoustical plaster
ACT	acoustical tile
ADH	adhesive
A/C	air conditioning
ALT	alternate
ALUM	aluminum
ANCH	anchor, anchorage
AB	anchor bolt
ANOD	anodized
APPROX	approximate
ARCH	architect(ural)
AD	area drain
AUTO	automatic

BSMT	basement
BW	beam
BGR	bearing
BEL	below
BET	between
BVL	beveled
BIT	bituminous
BLK	block
BLKG	blocking
BD	board
BS	both sides
BW	both ways
BOT	bottom
BRK	brick
BRZ	bronze
BLDG	building
BUR	built-up roofing

CAB	cabinet
CPT	carpet(ed)
CSMT	casement
CI	cast iron
CB	catch basin
CLG	ceiling
CEM	cement
CEM PLAS	cement plaster (portland)
CER	ceramic
CT	ceramic tile
CIR	circle
CLR	clear(ance)
CLOS	closet
C.O.	cleanout
CW	cold water

GA	gage, gauge
GALV	galvanized
GC	general contract(or)
GL	glass, glazing
GPB	opening opposite
GB	grab bar
GRD	outside diameter
GRT	grade, grading, ground
GWB	grout
GYP	gypsum wall board

HC	handcapped
HDWR	hardware
HDWR	hardwood
HDR	header
HTG	heating
HVAC	heating/ventilating/air conditioning

HD	head
HT	height
HEX	hexagonal
HC	hollow core
HM	hollow metal
HOR	horizontal
HW	hot water
H <sub>2</sub> O	water

IN	inch
INCL	include(d), (ing)
ID	inside diameter
INSUL	insulate(d), (ion)
INT	interior
INTM	intermediate
INV	invert

JT	joint
JB	junction box

KIT	kitchen
KO	knockout
KD	knock(ed) down

LBL	label
LAB	laboratory
LAD	ladder
LAM	laminated(d)
LAV	lavatory
LH	left hand
L	length
LT	light
LTWT	lightweight
LTL	lintel
LVR	louver
L.C. CPR	lead coated copper

MH	manhole
MFR	manufacture(er)
MAS	masonry
MO	masonry opening
MTL	materials
MAX	maximum
MECH	mechanic(al)
MBRN	membrane
MTL	metal
MIR	mirror
MIR	minimum
MISC	miscellaneous
MLD	molding, moulding
MR	moisture resistant
MULL	mullion

NAT	natural
N	nominal
NOM	north
NIC	not in contract
NTS	not to scale
NO	number

COL	column
COMB	combination
COMP	composition, composite
CONC	concrete
CMU	concrete masonry unit
CONST	construction
CONT	continue
CONTR	contractor
CJ	control joint
CPR	copper
CORR	corridor
CG	corner guard
CTR	counter
CTR FLG	counter flashing
CRS	course(s)
COORD	coordinate

DP	dampproofing
DEM	demolish, demolition
DEPT	department
DTL	detail
DIAG	diagonal
DIAM	diameter
DIM	dimension
DBL	double
DIV	division
DR	door
DN	down
DS	downspout
DRN	drainage
DWR	drawer
DWG	drawing

EA	each
EF	each face
EW	each way
E	east
ELEC	electric(al)
EW	electric water cooler
ELEV	elevator, elevation
EMER	emergency
ENCL	enclose(ure)
EQ	equal
EOP	equipment
ESC	escalator
EST	estimate
EXH	exhaust
EXG	existing
EXP	expansion
EXP	expansion bolt
EB	expansion joint
EJ	exposed
EXP	exterior
EXT	existing to remain
ETR	existing to remain

FM	Factory Mutual
FO	face of
FAST	fasten, fastener
FIN	finish(ed)
FFL	finished floor line
FA	fire alarm
FE	fire extinguisher
FEC	fire extinguisher cabinet
FPL	fireplace
FP	fireproof
FRT	fire-retardant
FIX	fixture
FLG	flashing
FLR	floor(ing)
FD	floor drain
FLUOR	fluorescent
FT	foot, feet
FTG	footing
FND	foundation
FRM	frame(d), (ing)
FUR	furred, furring
FUT	future

LEGEND

	ELEVATION NO. SHEET NO.
--	----------------------------

	SHEET NO.
--	-----------

	MULTIPLE ELEVATION TAG
--	------------------------

	SECTION NO. SHEET NO.
--	--------------------------

	DETAIL NO. SHEET NO.
--	-------------------------

	COLUMN LINE
--	-------------

	SPOT ELEVATION OR DATUM POINT
--	-------------------------------

	PROPERTY LINE
--	---------------

TEMP	temporary
TEL	telephone
TV	television
TC	terra cotta
TZ	terrazzo
THK	thick
THR	threshold
T&G	tone & groove
TEMP GL	tempered glass
T.F.	transparent finish
T&B	top & bottom
TA	toilet accessory
TOT	top of curb/concrete
TOS	top of steel
T.O.	top of
T	tread
TYP	typical
UL	Underwriters Laboratory
UNFIN	unfinished
UNO	unless noted otherwise
UTIL	utility
U/S	underside

VAC	vacuum
VB	vapor barrier
VAR	varies
VNR	veneer
VERT	vertical
VEST	vestibule
VG	vertical grain
VCB	vinyl cove base

VCT	vinyl composition tile
WVC	vinyl wall covering
VIF	verify in field

WSCT	wainscot
WTW	wall to wall
WT	weight
WH	wall hung
WC	water closet
WP	waterproofing

WR	water repellent/resistant
W/	with
WWF	welded wire fabric
W	west
W	width, wide
WDW	window
WM	wire mesh
W/O	without
WD	wood

RAD	radius
RWC	rainwater conductor
REC	recessed
REF	reference
REFR	refrigerator
REG	register
REINF	reinforced(d), (ing)
RCP	reinforced concrete pipe
REM	remove
REQ'D	required
RA	return air
RVS	reverse(side)
REV	revision
RH	right hand
ROW	right of way
R	riser
RV	rivet
RD	roof drain
RFG	roofing
RM	room
RO	rough opening
RSLNT	resilient

SCHED	schedule
SCN	screen
SL	sealant
SL&BR	sealant & backer rod
SECT	section
SHTG	sheathing
SHT	sheet
SIM	similar
SGL	single
SK	sink
SC	solid core
S	south
SPK	speaker
SPEC	specification(s)
SO	square
SSSTL	stainless steel
STD	standard
STL	steel
STOR	storage
SD	storm drain
STRUCT	structural
SURF	surface
SUSP	suspended
SYM	symmetry(ical)
SYS	system
SLD	solid surface material
SURF	MTL



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SITE NAME: NM4 QUEMAZON

ADDRESS: 280 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

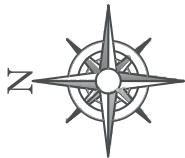
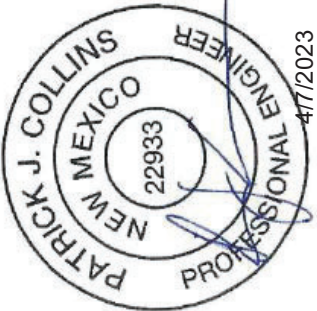
SHEET TITLE:

GENERAL NOTES:  
SYMBOLS, ABBREVIATIONS,  
& LEGEND

SHEET NUMBER:

GN3



[illegible]

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LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

SHEET TITLE:

## SITE PLAN

SHEET NUMBER:

5

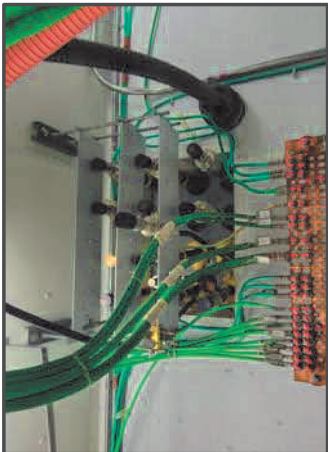
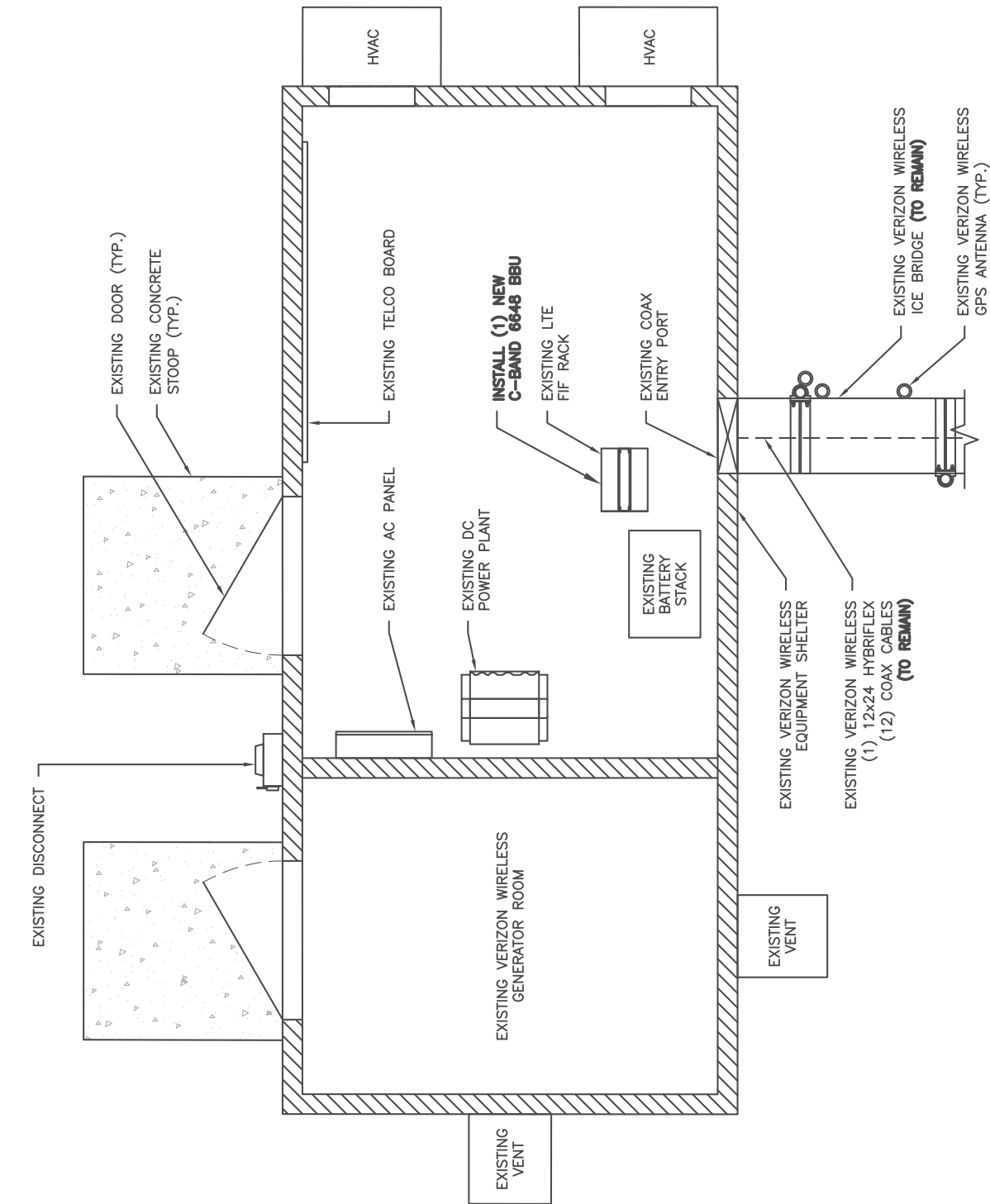
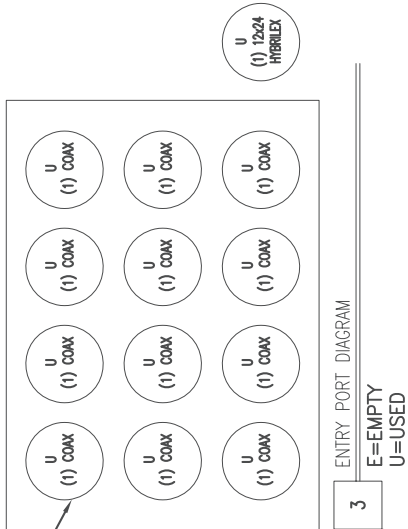
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO VERZON, CONSTRUCTION MANAGER, AND ENGINEER.
2. HVAC LOADING AND ELECTRICAL DESIGNS AND COORDINATION BY OTHERS.
3. INFORMATION SHOWN FOR DEPICTION PURPOSES ONLY. THIS INFORMATION IS NOT A LEGAL BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH.
4. EXISTING UNDERGROUND UTILITIES ARE LIKELY TO BE PRESENT THROUGHOUT THE COMPOUND. THE EXACT LOCATIONS ARE UNKNOWN. CONTRACTOR TO CONDUCT UNDERGROUND UTILITY LOCATES PRIOR TO CONSTRUCTION.

# SITE PLAN

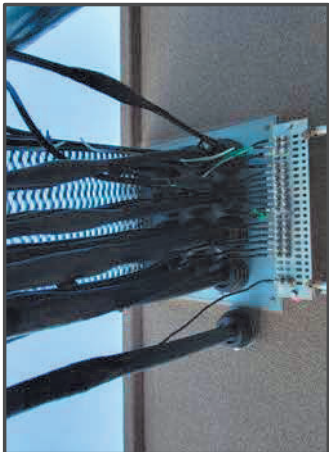


SCALE:  $3/32'' = 1'-0''$  (11" x 17")  
SCALE:  $3/16'' = 1'-0''$  (22" x 34")

## COAX PORTS



INSIDE VIEW OF  
COAX ENTRY PORT



OUTSIDE VIEW OF  
COAX ENTRY PORT

EXISTING ESTIMATED CABLE LENGTHS*			
SECTOR	ALPHA	BETA	GAMMA
HORZ.	±38'	±38'	±38'
VERT	±107'	±107'	±107'
+10%	±15'	±15'	±15'
TOTAL (FT)	±160'	±160'	±160'
*ALL DIMENSIONS TO BE VERIFIED IN FIELD (V.I.F.)			

SCALE: 1/4" = 1'-0" (11" x 17")  
SCALE: 1/2" = 1'-0" (22" x 34")

## COAX CONFIGURATION & CABLE LENGTHS

2

COAX CONFIGURATION &amp; CABLE LENGTHS

2



4821 EUBANK BLVD NE  
ALBUQUERQUE, NM 87111

**ComSite**  
ENGINEERING, LLC  
3060 MERCER UNIVERSITY DR.,  
SUITE 210  
ATLANTA, GA 30341  
404 • 825 • 0981

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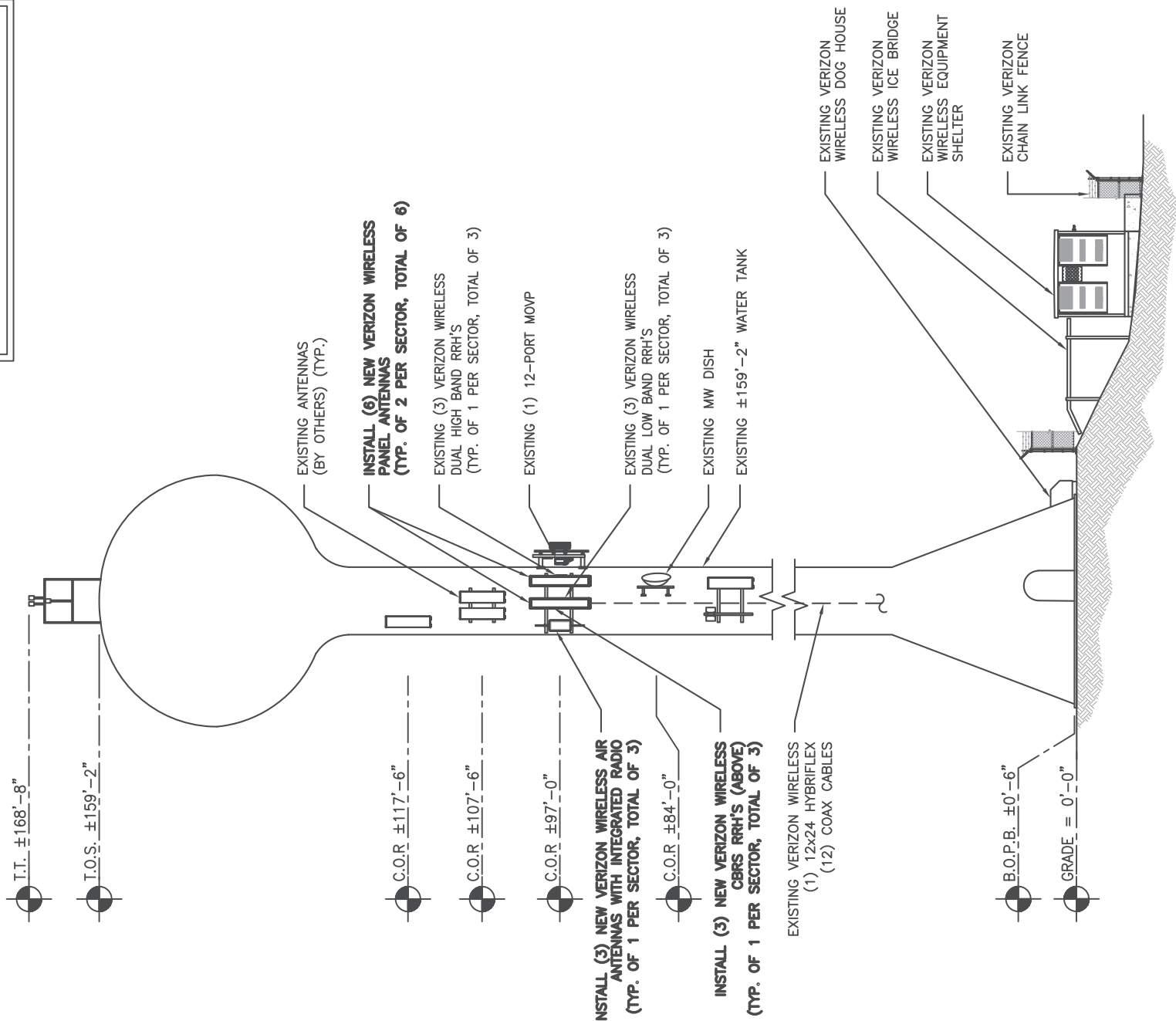
**SHEET TITLE:**

## EXISTING EQUIPMENT PLAN

SHEET NUMBER:



**NOTE:**  
INSTALL ALL ANTENNAS AND EQUIPMENT PER THE MOUNT & STRUCTURAL ANALYSIS. COORDINATE ANY MODIFICATIONS WITH VERIZON WIRELESS CM AND ENGINEER.



PROPOSED ELEVATION

1. COMSITE ENGINEERING, LLC HAS NOT PERFORMED A STRUCTURAL ANALYSIS FOR THE STRUCTURAL CAPACITY OF THE TOWER, FOUNDATION, MOUNTS, ANTENNAS, RADIOS, CABLES OR ANY OTHER APPURTENANCE ON THE STRUCTURE. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED BY OTHERS FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF ANY EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO VERIZON AND THE ENGINEER.
2. REFER TO THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF ALL MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW APPURTENANCES.
3. REFER TO ADDITIONAL DRAWINGS SPECIFIC TO STRUCTURE REINFORCEMENT FOR THIS SITE SHOULD THERE BE A REQUIREMENT FOR ANY REINFORCEMENT.
4. REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DETAILS.
5. REFER TO STRUCTURAL ANALYSIS FOR ALL CARRIERS' APPURTENANCES AS THEY MAY NOT BE SHOWN IN ELEVATION DETAILS.

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ALBUQUERQUE, NM 87111

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ADDRESS: 280 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

**SHEET TITLE:**

**TOWER ELEVATION  
EXISTING/ PROPOSED**

**SHEET NUMBER:**







**NOTE:**  
CONTRACTOR TO REFER TO CM FOR FINAL RF  
CONFIGURATION AND ANTENNA AND RADIO PLUMBING

1

PROPOSED ANTENNA CONFIGURATION

Added																
700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
					5G	Ericsson		PANEL ANTENNA	97	98.3	10(0001} 120(0002} 260(0003}	false	false	PHYSICAL	3	
LTE	5G	LTE	LTE	LTE	LTE	JMA		PANEL ANTENNA	97	101	10(01} 120(02} 260(03}	false	false	PHYSICAL	6	MX10FRO860-03
Removed																
700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	CDMA LTE 5G	LTE	LTE			ANDREW		PANEL ANTENNA	97	101	10(0001} 10(01} 120(0002} 120(02} 260(0003} 260(03}	false	false	PHYSICAL	9	
Retained																
700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID

## Equipment Summary

Added

Equipment Type	Location	700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower						LTE		Ericsson	4408 B48 (w/out Antenna)			PHYSICAL	3	KRC161746/1

Removed

Equipment Type	Location	700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
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No data available.

Retained

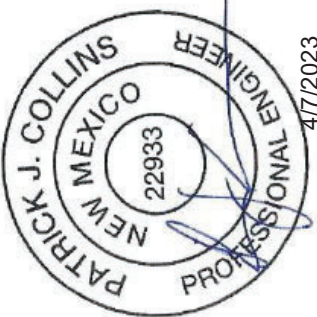
Equipment Type	Location	700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Hybrid Cable	Tower								Commscope	12x24 HybridFlex			PHYSICAL	1	
Coaxial Cables	Tower								Commscope	AWA5-50			PHYSICAL	5	
Coaxial Cables	Tower								Commscope	AWA7-50			PHYSICAL	6	
RRU	Tower	LTE	850						Ericsson	4408			PHYSICAL	2	
RRU	Tower			LTE					Ericsson	8043			PHYSICAL	3	
OMP Box	Tower								Raycap	OMP-12			PHYSICAL	1	
OMP Box	Shelter								Raycap	OMP-12			PHYSICAL	1	

2

PROPOSED NON ANTENNA EQUIPMENT



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ALBUQUERQUE, NM 87111

[illegible]

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LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

**SHEET TITLE:**

## RF DATA SHEET & COAX ANTENNA DIAGRAM

**SHEET NUMBER:**



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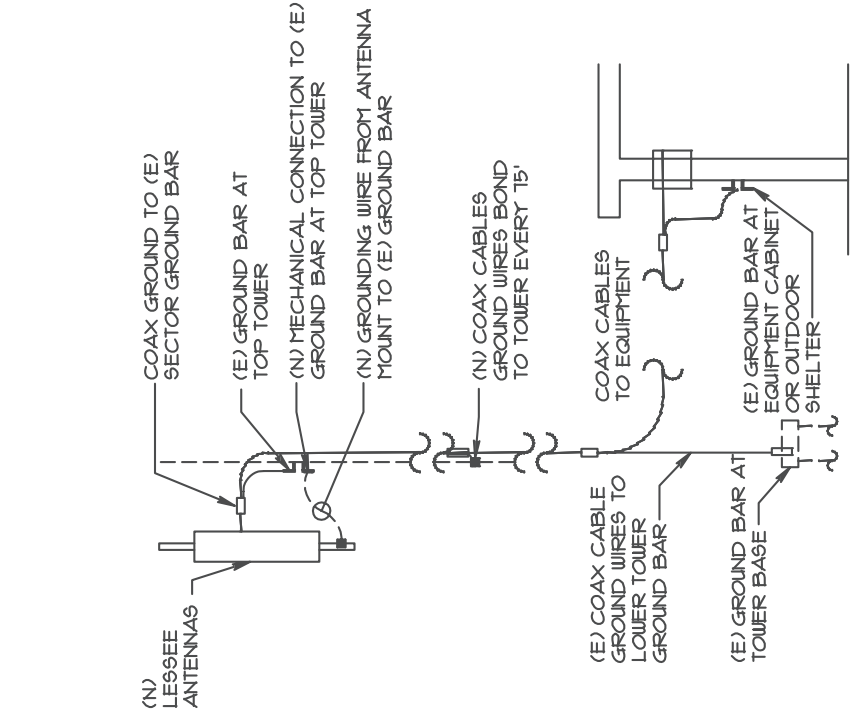
ADDRESS: 280 N MESA RD  
LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

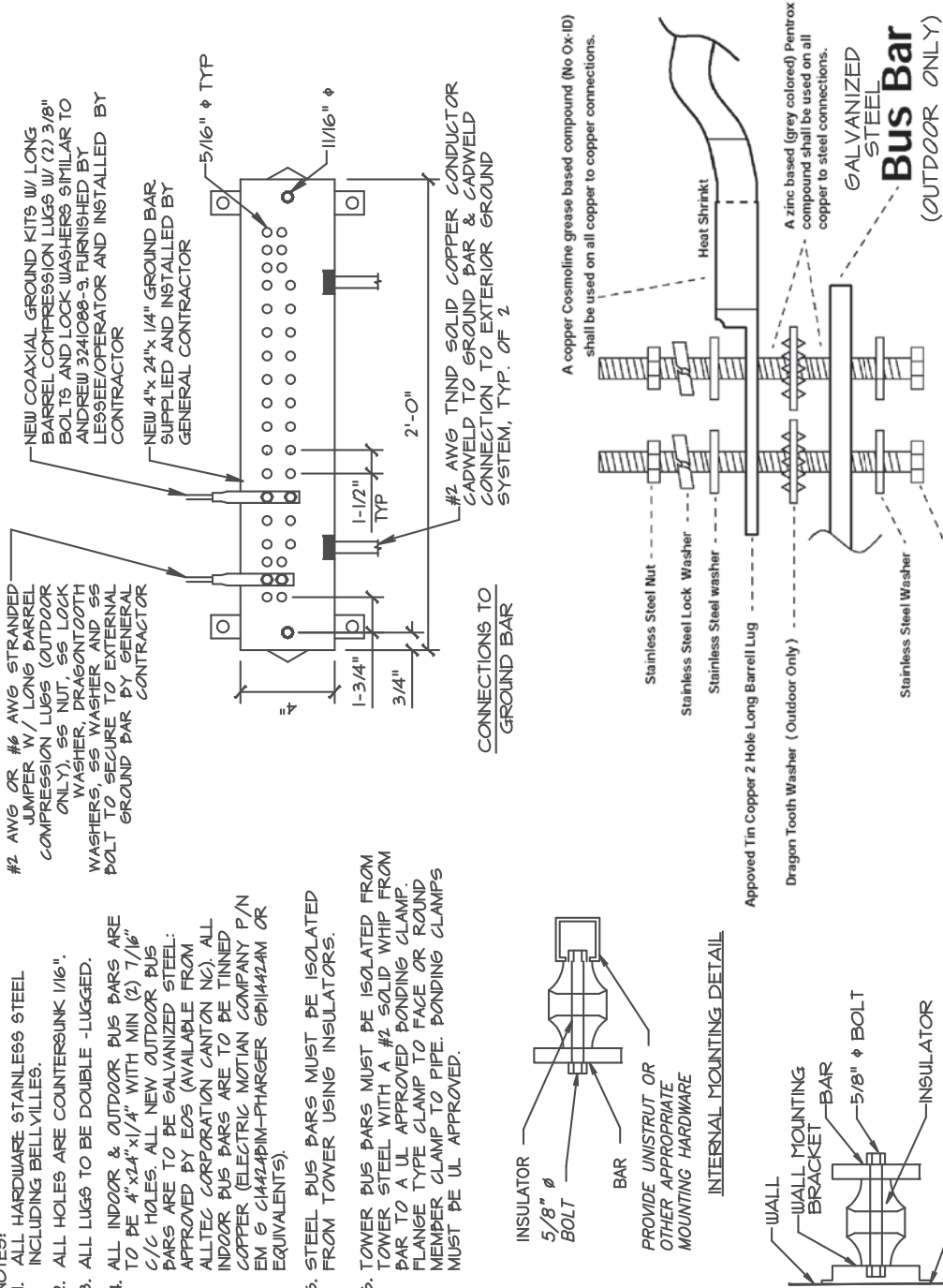
SHEET TITLE:

## GROUNDING DETAILS

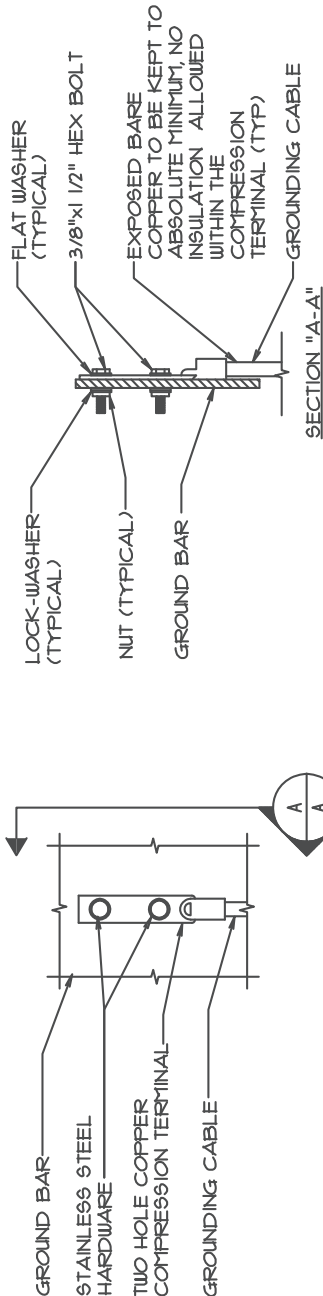
SHEET NUMBER:



## ANTENNA GROUNDING DIAGRAM



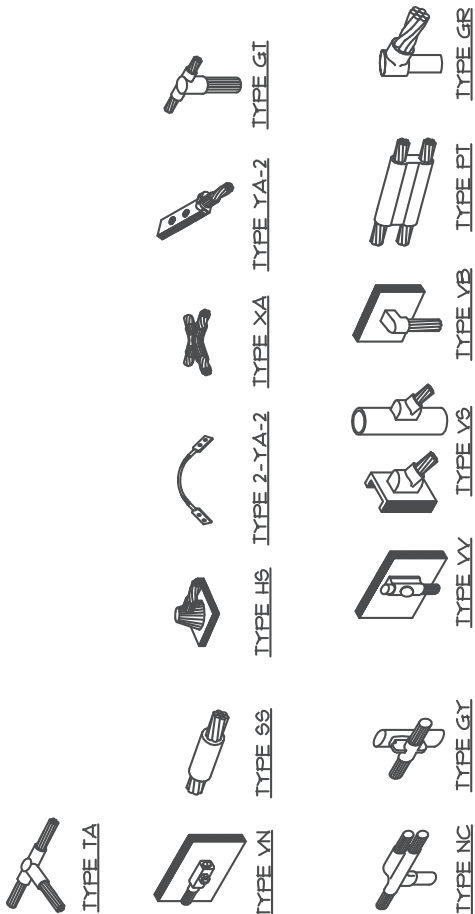
☐ GROUNDING BAR



## ELEVATION

NOTE:

1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS



TYPICAL EXOTHERMIC WELD DETAILS

NOT TO SCALE