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:

- 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.
- 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. ADMINITRATIVE AND SITE REVIEW FEE. Within ninety (90) days after the parties fully execute this Amendment No. 3, Tenant shall pay to Landlord a nonrefundable onetime 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		
	BY:		
NAOMI D. MAESTAS	PHILO S. SHELTON III, P.E.	DATE	
COUNTY CLERK	UTILITIES MANAGER		
Approved as to form:			
J. ALVIN LEAPHART			
COUNTY ATTORNEY			

STATE OF NEW MEXICO) : SS
COUNTY OF LOS ALAMOS)
	nowledged before me thisday of May 2024, s Manager for the Incorporated County of Los Alamos.
My Commission Expires:	NOTARY PUBLIC

	Cellco Partnership, D/B/A Verizon Wireless
	Ву:
	Name:
	Date:
	Title:
STATE OF ARIZONA) : SS COUNTY OF MARICOPA)	
On, 2024, before me Notary Public,, vevidence to be the person whose name acknowledged to me that he executed the same signature on the instrument the person, or the executed the instrument.	ne in his authorized capacity, and that by his
I certify under PENALTY OF PERJURY und foregoing paragraph is true and correct.	ler the laws of the State of Arizona that the
WITNESS my hand and official seal.	
	Signature of notary Public
(Seal)	

Amendment No. 3
Lease for Antenna Collocation and Facilities Site
between Incorporated County of Los Alamos and Cellco Partnership, dba Verizon Wireless

EXHIBIT B-3

Amendment No. 3

Verizon North Mesa Water Tower Equipment Changes

REMOVING:

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

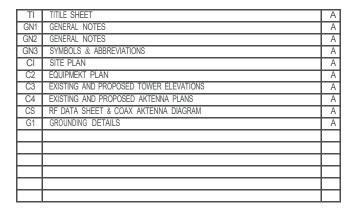
INSTALLING:

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

RETAINING:

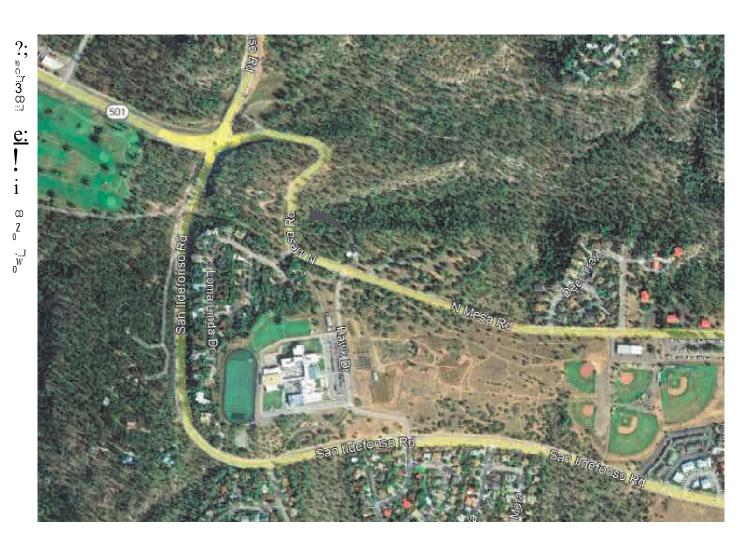
- Six (6) RRH Units
- One (1) hybrid line of coax
- Twelve (12) coaxial cables (RET)
- One (1) twelve port junction box













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- 2. ALL EXISTING ACTIVE SEWER WATER GAS FLECTRIC AND OTHER LITHITIES WHERE ENCOUNTERED IN THE WORK SAW I RE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK SILL BE RELOCATED AS DIRECTED BY CONTRACTOR, EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRIWNG PIERS AROUND OR NEAR VITIUTIES. SUBCONTRACTOR SIW.I. 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 SWIL 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
- 5. ALL EXISTING UNACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER I/TIUTIES, WHICH INTERFERE WITH THE EXECI/TION OF THE WORK, StW.I. 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 I/TIUTIES.
- 6. SUBCONTRACTOR SIWI, MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- 7. THE SUBCONTRACTOR SIW.I. PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE VERIZON WIRELESS SPECIFICATION FOR SITE
- 8. THE SITE SWI, BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BIS EQUIPMENT, AND TOWER AREAS.
- 9. NO FILL OR EMBANKMENT MATERIAL SW.I. BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SW.I. 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 DIISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SfW.I. BE GRADED TO A UNIFORM SLOPE, AND STABALIZED TO PREVENT EROSION.
- 12. SUBCONTRACTOR SfW.I. MINIMIZE DISTURBANCE TO EXISTING SIRE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SWI. BE IN ACCORDANCE WITH THE LOCAL JUSISDICTION'S GUIDUNES FDR EROSIION AND SEDIMENT CONTROL

STRUCTURAL STEEL NOTES

1. ALL STEEL SW.I. BE GALVANIZED PER ASTM A 123 AND CONFORM TO THE FOLLOWING MINIMUM SPECS.

HSS SHAPES ASTM >500, GR, B W-SHAPES & CHANNELS ASTM A572, GR. 50
MISC. ANGLES & PLATES ASTM A36 BASE PLATES ASTM GR. 36

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CD :::J

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2 ALL BOLTS SfW.I. BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM GRADE A325 UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SW.I. BE EQUIPED WITH A PROPER, AND APPROVED NUT-LOCKING DEVICE.

3 ALL WIELDING WORK Stw.I. CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WIELDING Stw.I. BE PERFORMED BY CERTIFIED WIELDERS ONLY, WIELDING ELECTRODES SfW.I. BE E70XX.

4 ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SIW.I. CONFORM TO AISC SPECS AND CODES, LATEST EDMON.

5 THE CONTRACTOR SIM.I. SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL

ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FAB. AND/OR ERECTION.

6 TORCH-CI/TIING OF ANY KIND SfW.I. NOT BE PERMmED.1

- 7. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36
- 8. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODED AND WELDING SfW.I. CONFORM TO AISC. WHERE FILLET WIELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUN SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SfW.I. BE TOUCHED UP.
- 9. BOLTED CONNECTIONS SfW.I. BE ASTM A325 BEARING TYPE (3/4"+) CONNECTIONS AND SfW.I. HAVE MINIMUM OF TWO BOLTS
- 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 3GS-T18-00013 "SELECTION, DESIGN. INSTALLATION, INSPECTION AND TESTING OF ADHESIVE AND MECHANICAL EXPANSION ANCHORS FOR WIRELESS SITE FACILITIES". ANCHORS SWILBE HILTLOR APPROVED EQUAL INSTALLED. INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAWINGS. NO REINFORCING STEEL SfW.I. BE CUT WITHOUT PRIOR ENGINEERING APPROVAL

WOOD FRAMING NOTES

ALL TIMBER JOISTS & LEDGIER SfW.I. CONFORM TO THE FOLLOWING MINIMUM STRUCTURAL PROPERTIES Fb = 1,300 psi Fv = 70 psi

CONCRETE NOTES:

CONCRFF COMPRESSIVE STRENGTH SFW.I. BE 4.000 PSI 028 DAYS

- 2. ALL REINFORCING STEEL SfW.I. CONIFORM TO ASTM A615 GRADE 60.
- 3. CONTRACTOR SIWI, PROVIDE CLEARANCE FOR ALL REBAR OF 3" UNLESS NOTED OTHERWISE
- 4. ALL REBAR SfW.I. BE SUPPORTED ABOVE SOIL SURFACE WITH ACI-APPROVED METAL REBAR CHAIRS.

STUCCO NOTES:

- 1. METAL LATHING & ACCESSORIES SfW.I. CONFORM TO ASTM 1063-86, MLSFA "TECHNICAL BUIIFTIN 101 "AND ASTM C 841 FOR SELECTION OF METAL LATH FOR EACH APPLICATION INDICATED, AND FS QQ-L-101, MANUFACTURIER'S STANDARD STEEL GALVANIZED FINISH (ASTM A 525 G90) ON STEEL PRODUCTS
- 2 STUCCO MESH SHALL BE GALVANIZED HEXAGONAL WOVEN SIDE MESH 1-1/2" 17 GA. SELF FURRED.
- 3. EXTERIOR GALVANIZED Dw.tOND MESH LATH OF 3.4 lbs. PER SQ. YD. MAY BE USED INSTEAD OF STUCCO NETTING.
- 4 THREE COAT STUCCO SYSTEM TO BE USED CONSUSTING OF MANUFACTURER'S STANDARD PRODUCTS CONSUSTING OF SEPARATE BASE COAT, SCRATCH COAT AND FINISH COAT MATERIALS. FIBER-REINFORCED PORTLAND CEMENT PLASTER BASECOAT TO BE USED.
- 5. INSTALLATION OF METAL SUPPORT SYSTEMS SfW.I. COMPLY WITH ASTM C 754.
- 6. CONTRACTOR TO APPLY DW.tOND MESH AT ALL CORNERS AND OPENINGS.
- 7. CONTRACTOR TO PROVIDE EXPANSION AND CONTROL JOINTS WHERE NOTED ON PLANS AND AT ALL DISSIMILAR MATERIALS JUNCTIONS.

8 CONTRACTOR TO MOIST CURE EACH BASECOAT WITH CLEAN POTABLE WATER FOR 48-72 HOURS FOLLOWING INMAL BASECOAT APPLICATION. ALLOW BROWN COAT TO AIR CURE FOR AN AOOMONAL 7-10 DAYS BEFORE THE APPLICATION OF THE CEMENT BASED FINISH COATS.

CONCRETE MASONRY UNIT (CMU) NOTES:

- 1. CONCRFF 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"ilx8"Hx16"1. & 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.

- A. EXTERIOR WALLS ABOVE GRADE: TYPE S, 1/4 TO 1/2 PART HYDRATED LIME TO 1 PART PORTLAND CEMENT
- 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.
- 3. GROUT PER ASTM C476.
- 4. PROVIDE REINFORCING STEEL AND GROUT SOLID THREE CORNER CELLS AT ALL CORNER LOCATIONS.
- 5. AT WALL OPENINGS & END OF WALL LOCATIONS, PROVIDE REINFORCING & GROUT SOLID LAST TWO CELLS, OR THE TWO CELLS ON EITHER SIDE OF OIPENING.
- 6 GROLIT SOLID ALL BOND BEAMS, RUN REINFORCING CONTINUOUS AROUND ALL CORNERS WITH APPROPRIATE SPLICES.
- 7. ALL CMU BLOCK TO HAVE EXTERIOR DECORATIVE FINISH TO MATCH BLOCK WALL OF ADJACENT BUILDING. CMU BLOCK WALL TO BE

GROUNDING NOTES

- 1 THE SUBCONTRACTOR SIN I 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 (UIL LPL OR NEPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TEL CORIDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR
- 2. ALL GROUNDING ELECTROIDE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGIETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SfW.I. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 31) FOR NEW GROUNDING ELECTRODE SYSTEMS. THE SUBCONTRACTOR SAWL FURNISH AND INSTALL SUPPLEMENTAL GROUNDING ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- 4. METAL RACEWAY STW.I. NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SW.I. BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BIS EQUIPMENT.
- EACH BIS CABINET STW.I. BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BIS; 2 AWG STRANDED
- 6. EXOTHERMIC WEILDS SIW.I. BE LISED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
 7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SIW.I. BE USED ON ALL COMPRESSION AND
- 8. ICE BRIDGE BONDING CONDUCTORS STW.I. BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
- 9. ALUMINUM CONDUCTOS OR COPPER CLAD STEEL CONDUCTORS SHALL NOT BE USE FOR GROUNDING CONNECTIONS
- 10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS STW.I. BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NED.
- 11. METAL CONDUIT AND TRAY SIW.I. BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- 12 GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS STW1 NOT BE ROUTED THROUGH METAWC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METAL CONDUITS, METAL SUPPOR CUPS OR SLEEVES THROLIGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIOT TO MEET CODE REQUIREMENTS OR LOCAL CONDMIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SIW.I. BE USED. WHERE USE OF METALLIC CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE THE GROUND CONDUCTOR SWIJ. 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 TELCORDIA.
- SUBCONTRACTOR SHALL MOIDFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BIS EQUIPMENT. SUBCONTRACTOR SIW.I. SUBMIT MOIDFICATIONS TO CONTRACTOR FOR
- 3. ALL CIRCUITS STW.I. BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARARTION AS REQUIRED BY THE NEC
- 4. CABLES STW.I. NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTORS AND CABI£ SfW.I. BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING
- POWER PHASE CONDUCTORS (I.E., HOTS) SIW.I. 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.
- ALL ELECTRICAL COMPONENTS SIW.I. BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SWI. BE LABELED WITH THEIR VOLTAGE RATING.PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- 8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SfW.I. BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- 9. ALL TIE WRAPS WHERE PERMITTED Stw.I. BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SfW.I. BE SINGLE CONDUCTOR (12 AWG OR LARGER). 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90" C (WET AND DRY) OPERATION: LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED. UNLESS
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SW.I. BE SINGLE CONDUCTOR (6 AWG OR ARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABIÉ RATED FOR 9D'C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, LINI ESS OTHERWISE SPECIFIED
- 12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS. OR BELOW GRADE. SfW.I. 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 THHN OR THWN-2, CLASS B STRANDED COPPER CABI£ RATED FOR 9D' C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE
- 14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS STW.I. BE RATED FOR OPERATION AT NO LESS THAN 7'S C (90" C IF AVAILABLE).
- 15. RACEWAY AND CABLE TRAY SAVI. BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH MENA. UL, ANSI/IFFF AND NEC
- 16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- 17 FLECTRICAL METAWC TURING (FMT) OR RIGID NONMETAWC CONDUIT (LE RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SAW.I. BE USED FOR EXPOSED INDOOR
- 18. ELECTRICAL METAWC TUBING (EMT), ELECTRICAL NONMETAWC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC. SCHEDULE 40) SfW.I. BE LISED FOR CONCEALED INDOOR LOCATIONS.
- 19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SfW.I. BE USED FOR OUTDOOR LOCATIONS ABOVE
- 20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SfW.I. BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- 21. LIQUID-TIGHT FLEXIBLE METAWC CONDUIT (UQUID-TITE FLEX) SfW.I. BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED
- 22. CONDUIT AND TUBING FITTINGS SfW.I. BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 23. CABINETS, BOXES, AND WIREWAYS SAW.I. BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, ANSI/IEEE, AND NEC.
- 24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- 25. WIREWAYS Stw.I. BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER. DESIGNED TO SWING OPEN DOWINWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR
- 26. EQUIPMENT CABINETS. TERMINAL BOXES. JUNCTION BOXES. AND PULL BOXES SWI, 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 SfW.I. BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SfW.I. MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP DR BETTER) OUTDOORS.
- 28 NONMETAWC RECEPTACLE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2: AND RATED NEMA: (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- 29. THE SUBCONTRACTOR SIW.I. NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBI/TION PANELS.
- 30. THE SUBCONTRACTOR SWIL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



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			OR CONSTRUCTION	NC
F	04/05/23	ISSUED	OR REVIEW	
R	N DATE	DESCRIF	TION	, and the second
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IT IS A 'IIOIATION O' LIW RIR /Hf PERSON UIIESS TIEY ACTIL INIER 14E DIRECTIOH O' A UCENSED PROFESSIONIL ENGIGER IO H-TER THS DOWIENT - UIIESS EXPLICITY 10 ff COIISHE ERIGINEERH: II.C N WRITING, NII COIISHE ENGINEERIG II.C DISCIMIS HJ. UIIILIJY A-SSOCITED with 11E REUSE, H.TERATION O'R UOIIICATION O' 11E CONTENIS IEREN.

SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD

LOS ALAMOS NM 87544

SITE TYPE: WATERTANK

SHEET TITLE:

GENERAL NOTES: SITE WORK, GROUNDING, STEEL & ELECTRICAL

SIIEET NUMBER:



DIVISION 01000 - GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1. ALL WORK TO BE PERFORMED BY CERTIFIED NETWORK INSTALLATION PERSONNEL. MINIMUM OF TWO MEMBERS PER CREW.
- 2. REFER TO VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS. IN CASE OF A CONFLICT, VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS (LATEST EDITION) SHALL BE FOLLOWED.
- 3. A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND ITS COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT THE EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND APPURTENANCES. PRIOR TO THE INSTALLATION OF THE PROPOSED FOLIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

PART 2 - GENERAL NOTES

- 1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- 2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK, THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE
- 3 THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) VERIZON WIRELESS'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK
- 4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE
- 5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS
- 6 THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM'S OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS. METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- 11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SITE CONDITIONS DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ALL LINNECESSARY MATERIAL

PART 2 - GENERAL NOTES (CONTINUED)

- 13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIC BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. 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 ARCHITECT/ENGINEER.
- 14. THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY VERIZON WIRELESS'S REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC.
- 16. THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO CONDUCTING SITE SWEEPING.
- 17. THE GENERAL CONTRACTOR SHALL IN ALL INSTANCES CONFORM TO THE
- 18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT STRUCTURAL ENGINEER'S APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE STRUCTURE FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR

1 ALL MATERIALS INCLUDING PLYWOOD SHALL BE AS SPECIFIED ON THESE PLANS

SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 - GENERAL

1.01 WORK INCLUDED

- A ANTENNAS AND FIBER CABLES SHALL BE AS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ADHERENCE TO OSHA STANDARDS IS MANDATED.
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FIBER CABLES AND TERMINATION'S BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL FIBER CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE

.MEIALS.

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL MATERIALS TO BE FURNISHED, AND WITHOUT LIMITING THE GENERALITY THEREOF, INCLUDES ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEMS INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. INCLUDING
 - 1. STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES.
 - 2. WELDING AND BOLTING OF ATTACHMENTS.

1.02 REFIERENCE STANDARDS

- A. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:
 - 1 ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS. AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING CODES"
 - 2. AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN "STANDARD D1.1-2006, STRUCTURAL WELDING CODE"
 - 3. AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"

PART 2 - PRODUCTS

2.01 MATERIALS

A. STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36 AND A50 FOR STRUCTURAL STEEL

- A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED.
- WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM A-233, E70 SERIES. BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERGED ARC PROCESS SHALL CONFORM TO AISC SPECIFICATIONS
- C. FIELD WELDING SHALL BE DONE AS PER AWSD1.1 REQUIREMENTS VISUAL INSPECTION IS ACCEPTABLE WHEN FILLET SIZES ARE NOT SHOWN.
- D. STUD WELDING SHALL BE ACCOMPLISHED BY CAPACITOR DISCHARGE (CD) WFI DING TECHNIQUE USING MIDWEST FASTENERS, INC. CD100 CAPACITOR DISCHARGE STUD WELDER, NELSON STUD WELDER OR EQUAL.
- 2.2 PROVIDE STUD FASTENERS OF MATERIALS AND SIZES SHOWN ON DRAWINGS OR AS RECOMMENDED BY THE MANUFACTURER FOR STRUCTURAL LOADINGS REQUIRED.
- 2.3 FOLLOW MANUFACTURES SPECIFICATIONS AND INSTRUCTIONS TO PROPERLY SELECT AND

- A. BOLTS SHALL BE 3/4" (MINIMUM) CONFORMING TO ASTM A325, HOT DIP GALVANIZED OR ASTM A153. NUTS SHALL BE HEAVY HEX TYPE
- B. ALL BOLTS SHALL BE INSTALLED IN SLIP CRITICAL CONNECTIONS CONFORMING TO AISC, USING THE 1/4" TURN METHOD.

FABRICATION

A. FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND AWS STANDARDS AND

2.05 FINISH

A. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN

PROTECTION

A. UPON COMPLETION OF ERECTION INSPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT. COLOR TO MATCH THE GALVANIZING PROCESS.

PART 3 - EXECUTION

3.01 ERECTION OF STEEL

- A. PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION.
- B. ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE
- C. TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS.



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SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD LOS ALAMOS, NM 87544

SITE TYPE: WATERTANK

SHEET TITLE:

GENERAL NOTES: TOWERS

SHEET NUMBER



SYMBOLS USED AS ABBREVIATIONS

and angle

centerline penny perpendicular

BOT BRK BRZ BLDG BUR

CAB CPT

CSMT CI CB

bronze building built-up roofing

cabinet carpet(ed)

cast iron

catch basin

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 worker

cold water

1

CD

COL COMB COMP CONC CMU CONST CONTR CONTR CJ CPR CORR CG CTR	column combination composition, composite concrete concrete masonry unit construction continue contractor control joint copper corridor corner guard counter counter flashing course(s) coordinate
DP DP DTL BIAGM BIM DIV DIV DRN OS ORN DWR DWR	dampproofing demolish, demolition department detail diagonal diameter dimension double division door down downspout drainage drawer drawing
EA EF EW CLEC EMECL EMECL EOP ESST EXXXP EB LXXT ET EXXXP EB LXXT E	each each face each way east each way east electric(al) electric water cooler elevator, elevation emergency enclose(ure) equil equipment escalator estimate exhaust existing expansion expansion bolt expansion joint exposed exterior existing to remain
FM	Factory Mutual
FAST FIN FFL	fasten, of fastener finish(ed) finished floor line
FEC FPL	fire alarm fire extinguisher fire extinguisher cabinet fireplace
FLUOR	fireproof fire-retardant fixture flashing floor(ing) floor drain fluorescent foot, feet footing

foundation frame(d),

(ina) furred, furring

NO

number

GA GALV GC GL GB GRD GRT GWB GYP	gage, gauge galvanized general contract(or) glass, glazing grab bar grade, grading, ground grout gypsum wall board gypsum
HC HDWR HDWD HOR HTG HVAC HD HT HEX HC HM HOR HW HOR	handicapped hardware hardwood header heating heatina/ventilating/air condi ioning head height hexagonal hollow core hollow metal horizontal hot water water
IN INCL ID INSUL INT INTM INV	inch include(d), (ing) inside diameter insulate(d), (ion) interior intermediate invert
JT JB	Joint Junction box
KIT KO KO	kitchen knockout knock(ed) down
LBL LAB LAD LAW LAV LH L LT LT LT LT LVR L.C. CPR	label laboratory ladder laminate(d) lavatory left hand length light lightweight lintel louver lead coated copper
MH MFR MAS MO MTL MAX MECH MBRN MTL MIN MIN MIR MISC MLD MR MULL	manhole manufacture(er) masonry masonry opening materials maximum mechanic(al) membrane metal minimum mirror miscellaneous molding, moulding moisture resistant mullion
NAT NOM N NIC NTS	natural nominal north not in contract not to scale

QT

RAD RWC REC REF REFR

REG REINF

REM REQ'D

RA RVS REV RH

RVT RD RFG RM

RO

RSLNT

SCHED

SL SL&BR

SCN

SHT SIM SGL SK SC

S SPK

SPEC SQ SSTL STD STL STOR

reverse(side)

right hand

rivet roof drain

roofing

schedule

sheathing

sheet similar

sinale sink solid core

speaker

standard steel

storage

surface

suspended symmetry(ical) system SLD SURF MTL solid surface material

storm drain structural

specification(s)

square stainless steel

screen

right of way

rough opening resilient

sealant & backer rod

OFF office OC on center(s) OPG opening OPP opposite OD outside diameter OA overall OH overhead	TEMP TEL TV TC TZ THK THR T&G	temporary telephone television terra cotta terrazzo thick threshold tongue & groove
PNT paint(ed) PR pair PNL panel PAR parallel PKG parking PART. BO particle board PTN partition	TEMP GL T.F. T&B TA TOC TOS T.O. T	tempered glass transparent finish toP. & bottom toilet accessory top of curb(concrete top of stee tread
PVMT pavement PERF perforate(d) PLAS plaster PLAM plastic laminate	TYP UL UNFIN	typical Underwriters Laboratory unfinished
PL plate PLWD plywood PCF pounds per cubic foot	UNO UTIL U/S	unless noted otherwise utility
PLF pounds per lineal foot PSF pounds per square foot		underside
PSI pounds per square inch P.C. precast	VAC VB	vacuum vapor barrier

PLWD PCF PLF PSF PSI P.C. PCCO PREF/	pounds pounds pounds pounds precas NC precasi AB prefabr	s per cubi s per linea s per squa s per squa t t concrete icate(ed)	al foot are foot	UTIL U/S VAC VB VAR VNR VERT	utility underside vacuum vapor barrie varies veneer vertical	er
PL P.C. I	propert		plaster	VERT VEST VG VCB	vertical vestibule vertical grai	n
					admid a series of	

quarry tile		vinyl cove base
radius rainwater conductor recessed reference	VCT VWC VIF	vinyl composition vinyl wall covering verify in field
refrigerator register reinforce(d), (ing) reinforced concrete pipe remove required	WSCT WTW WT WH WC WP	wainscot wall to wall weight wall hung water closet waterproofing

WR

water repellent/resistant welded wire fabric width, wide window without

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



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



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SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD LOS ALAMOS, NM 87544

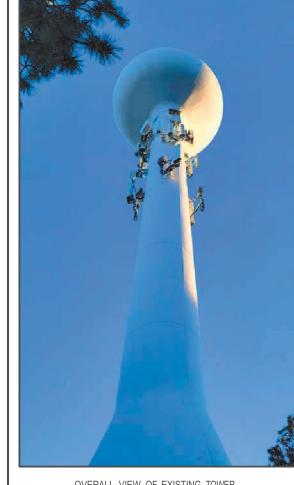
SITE TYPE: WATERTANK

SHEET TITLE:

GENERAL NOTES: SYMBOLS, ABBREVIATIONS, & LEGEND

SIIEET NUMBER:





OVERALL VIEW OF EXISTING TOWER

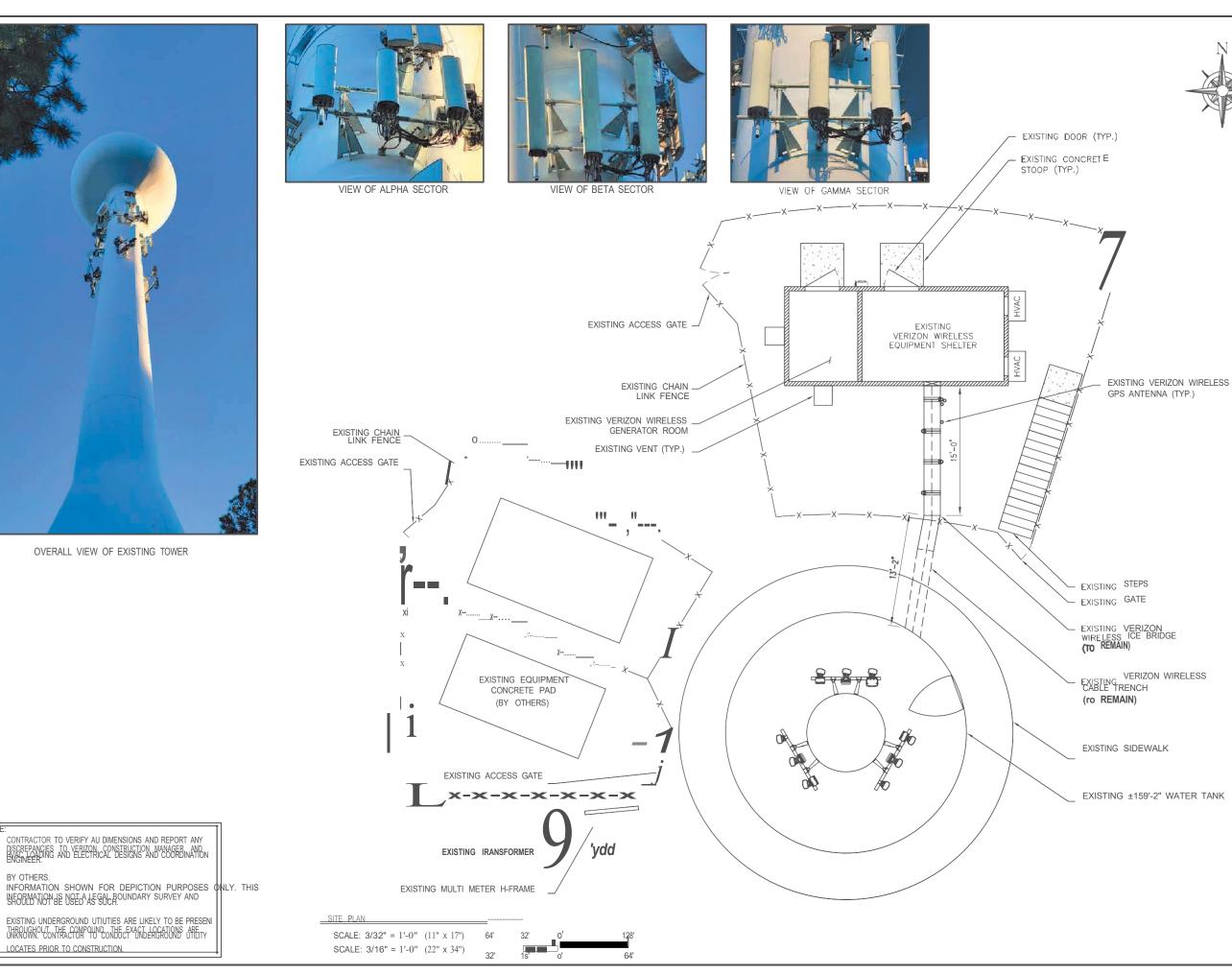
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INFORMATION IS NOT A LEGAL BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH.

EXISTING UNDERGROUND UTIUTIES ARE LIKELY TO BE PRESENI THROUGHOUT THE COMPOUND OF THE EXACT LOCATIONS OFFI

LOCATES PRIOR TO CONSTRUCTION.

DISCREPANCIES TO VERIZON CONSTRUCTION MANAGEBINATION EXIGN FOR AND COORDINATION





4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



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SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD

LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

SHEET TITLE:

SITE PLAN

SIIEET NUMBER:



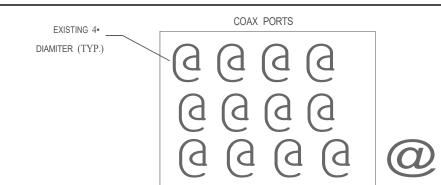
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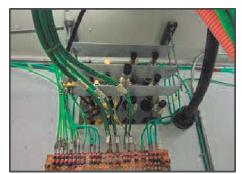
CD Z 0 HVAC LOADING AND ELECTRICAL DESIGNS AND COORDINATION BY OTHERS.
 INFORMATION SHOWN FOR DEPICTION PURPOSES ONLY. THIS INFORMATION IS NOT A LEGAL BOUNDARY SURVEY AND SHOULD NOT BE USED AS SUCH.

 EXISTING UNDERGROUND UTIUTIES ARE LIKELY TO BE PRESENT THROUGHOUT THE COMPOUND. THE EXACT LOCATIONS ARE UNKNOWN. CONTRACTOR TO CONDUCT UNDERGROUND UTILITY LOCATES PRIOR TO CONSTRUCTION.





TDIAGRAM
LJE-EMPTY
U=USED



INSIDE VIEW OF COAX ENTRY PORT



OUTSIDE VIEW OF COAX ENTRY PORT

EXISTING ESTIMATED CABLE LENGTHS*

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

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

COAX CONFIGURATION & CABLE LENGTHS





Veri Ton wireless

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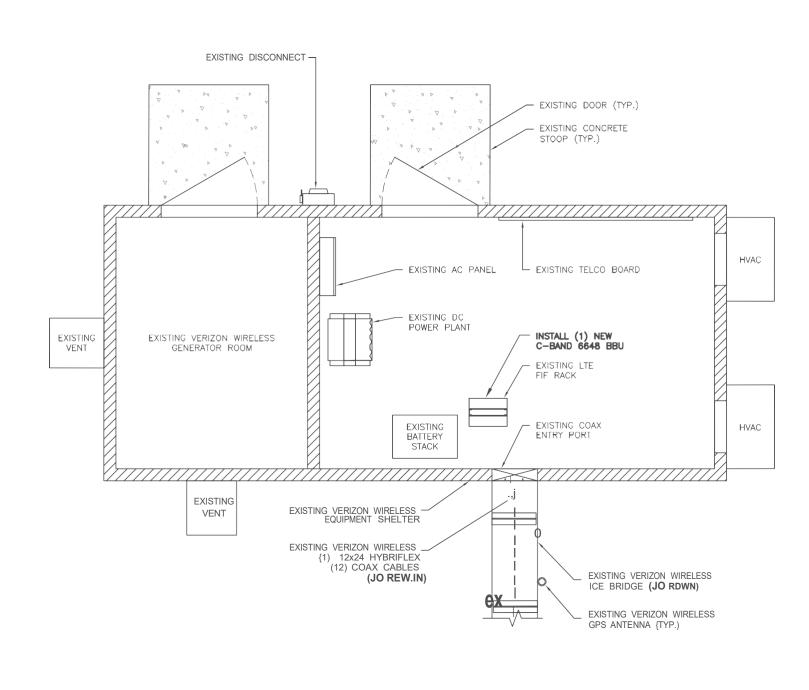
SITE TYPE: WATER TANK

SHEET TITLE:

EXISTING EQUIPMENT PLAN

SIIEET NUMBER:





EXISTING EQUIPMENT PLAN

SCALE: 1/4" = 1'-0• (11" x 17")

SCALE: 1/2" = 1'-0• (22" x 34")



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e:

CD

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W 0

SCALE: $\cdot 1 = 1/B' - 0$ (ff x 17')

SCALE: 1' = 1/4'-o' (22' x 34')

NOTE

ANTENNAS, RADIOS, CABLES OR Afr! OTHER APPURTENANCE ON THE STRUCTURE. THE CONTRACTOR AND SUBCONTRACTOR SHALL COORDINATE WITH AND

Afr! EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT Afr! DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS

COMPLY WITH THE PROVISIONS OF THE STRUCTURAL ANALYSIS PREPARED BY OTHERS FOR THIS SITE AND PROJECT PRIOR TO THE INSTALLATION OF

REFER TO THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF All MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW

REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DETAILS.
 REFER TO STRUCTURAL ANALYSIS FOR AII CARRIERS' APPURTENANCES AS THEY MAY NOT BE SHOWN IN ELEVATION DETAIL

REFER TO ADDMONAL DRAWINGS SPECIFIC TO STRUCTURE REINFORCEMENT FOR THIS SITE SHOULD THERE BE A REQUIREMENT FOR Afr! REINFORCEMENT

TO VERIZON AND THE ENGINEER

APPURTENANCES.

INSTALL AII ANTENNAS AND EQUIPMENT PER THE MOUNT & STRUCTURAL ANALYSIS. COORDINATE Afr! MODIFICATIONS WITH VERIZON WIRELESS CM AND ENGINEER.



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



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SITE VAME: NM4 QUEMAZON

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LOS ALAMOS, NM 87544

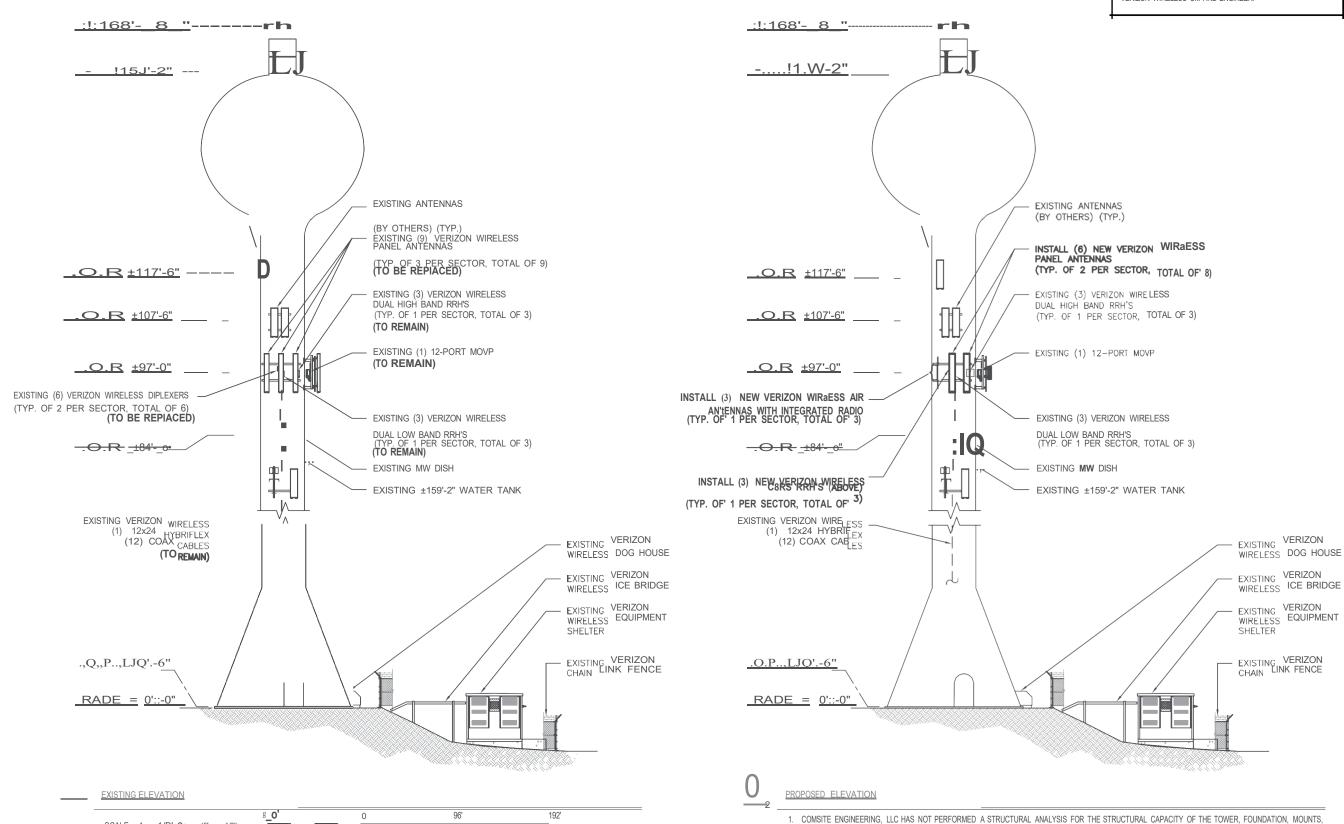
SITE TYPE: WATER TANK

SHEET TITLE:

TOWER ELEVATION EXISTING/ PROPOSED

SIIEET NUMBER:





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<u>e:</u>

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INSTALL (3) NEW VERIZON WIRELESS AIR ANTENNAS WI1IT INTEGRATED RADIO (1YP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING SECTOR MOUNT (TYP. OF

1 PER SECTOR, TOTAL OF 3)

EXISTING (1) 12-PORT MOVP

EXISTING (3) VERIZON WIRELESS DUAL LOW BAND RRH'S

(TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING ±159'-2" WATER TANK



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



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10 1ft COIISIE £HGINEERH: II.C N WRITING, NÎI COIISIE
ENGINEERIIG II.C DISCIMIS HJ. UIIIJJY TED wmt 11£
REUSE, H.TERATION OR UOIRICATION OF 11£ CONTEHIS IEREJN.

SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD

LOS ALAMOS, NM 87544

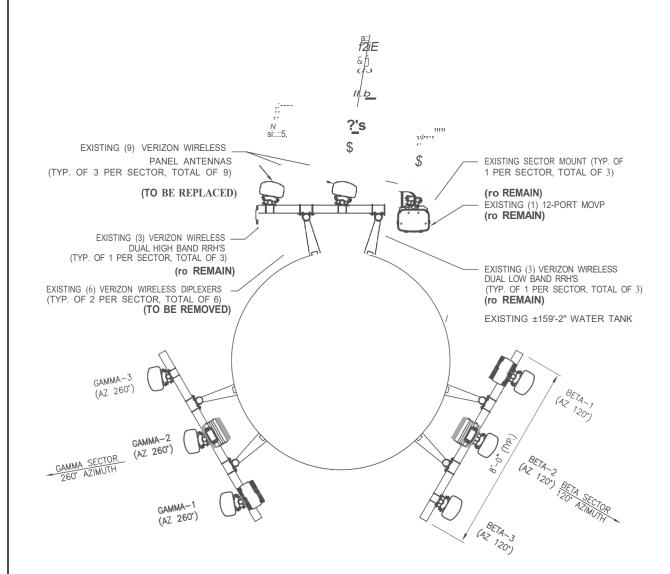
SITE TYPE: WATERTANK

SHEET TITLE:

ANTENNA PLAN EXISTING / PROPOSED

SIIEET NUMBER:

C4 Attachment B



21 EXISTING ANTENNA PLAN

ELEMENTS OF THE ORIENTATION DIAGRAM SHOWN ABOVE ARE SCALED TO: SCALE: 1/4" = 1'-0° (11" x 17") SCALE: 1/8" = 1'-0" (22" x 34")

THESE ELEMENTS ARE: THE ANTENNA MOUNT FACE WIDTH, ANTENNA WIDTH, DISTANCE BETWEEN ANTENNAS (EDGE-TO-EDGE) & DETAIL

PROPOSED ANTENNA PLAN

G/>.JI,IAA-3 (/>1 260")

GAIAIAA S£.C10R

- 260" t>J,.\\I,U1\-\

INSTALL (8) NEW VERIZON WIRELESS — PANA ANTENNAS

EXISTING (3) VERIZON WIRELESS _

(TYP. OF 1 PER SECTOR, TOTAL OF 3)

INSTALL (3) NEW VERIZON WIRELESS

(1YP. OF 1 PER SECTOR, TOTAL OF 3)

GAMMA-2

(AZ 260°)

(AZ 260°)

(Til'

DUAL HIGH BAND RRH'S

CBRS RRH'S (NJCNE:)

(1YP. OF 2 PER SECTOR, TOTAL OF 8)

- COMSITE ENGINEERING, LLC HAS NOT PERFORMED A STRUCTURAL ANALYSIS FOR THE STRUCTURAL CAPACITY OF THE TOWER, FOUNDATION, MOUNTS, ANTENNAS, RADIOS, CABLES OR NH OTHER APPURTENANCE ON THE STRUCTURE. THE CONIRACTOR AND SUBCONIRACTOR 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 NIFF EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT NH DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO VERIZON AND THE ENGINEER
- REFER TO THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF AII MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW APPURTENANCES. REFER TO ADDMONAL DRAWINGS SPECIFIC TO STRUCTURE REINFORCEMENT FOR THIS SITE SHOULD THERE BE A REQUIREMENT FOR NIF REINFORCEMENT.
- REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DETAILS.
- 5. REFER TO STRUCTURAL ANALYSIS FOR AII CARRIERS' APPURTENANCES AS THEY MAY NOT BE SHOWN IN ELEVATION DETAIL

?;

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

Added 700 850 1900 AWS AWS3 CBRS L-Sub6 Make Centerline Tip Height Azimuth Inst. Type Quantity Item ID RET 10(0001) 5G Ericsson PANEL ANTENNA 88.3 120(0002) PHYSICAL 3 260(0003) LIE 5G LIE LIE LIE LIE PANEL ANTENNA 97 120(02) talse PHYSICAL 6 MX10FR0860-03 talse 260(03) 700 850 1900 AWS AWS3 CBRS L-Sub6 Make Centerline Tip Height Azimuth RET 4xRx Inst. Type Quantity Item ID 10(0001) 10(01) CDMA 120(0002) LIE LIE LIE LIE ANDREW PANEL ANTENNA PHYSICAL 9 120(02) 260(0003) 260(03) 700 850 1900 AWS AWS3 CBRS L-Sub6 Make Centerline Tip Height Azimuth RET 4xRx Inst. Type Quantity Item ID No Ciota Asolioldo:

[2] PROPOSED ANTENNA CONFIGURATION

Equipment Summary

Added: 9 Removed: 9 Retained: 0

Added																
Equipment Type	Location	700	850	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
nnu	Tower					-	LTE		Ericoson	4408 B48 (w/out Antenna)			PHYSICAL	3	- MBO161746/4	
Removed																
Equipment Type	Location	700	850	: 1900	AWS	AW33	CBRS	L-Sub6	Make	Model	Calble Length	Cable Size	Install Type	Quantity	Nem 1D	
										ita data avallable.						
Retained																
Ециіртеті Туре	Location	700	850	1900	AWS	: AWS3	CBRS	L-Sub6	Make	: Model	Cable Length	Cable Size	Install Type	Quantity	item iD	
Hybrid Coble	Tower			4					Commiscope	12x24 Hybrifiex			PHYSICAL	1		
Constal Cables	Tenner							ļ	Commscope	AVAS-CO			PHYSICAL	.6		
Coaxial Cables	Tower								Cemmscope	AVA7-60			PHYSICAL	6		
RRU	Tower	LTE	5G						Eriossen	4449			PHYSICAL	3		
RRU	Tower			LTE	LTE				Erlessen	8843			PHYSICAL	3	8	
OVP Box.	Tower	ì		i			1		Raycap	OVP-12		•	PHYSICAL	•		
OVP Block	Sheller								Raycap	CVP-12			PHYSICAL	1		



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111



DRA	AWN BY:	MA	CHECKED BY:	PC
0	04/06/23		OR CONSTRUCTI	ON
Α	04/05/23	ISSUED F	OR REVIEW	
REV	DATE	DESCRIP	TION	



IT IS A YIOIATION OF LIW RIR /HF PERSON UIESS TIEY ACTIAI INIER 11E DIRECIIOH OF A UCENSED PROFESSIONIL ENGIGER 10 HTER THS DOWIENT. UILESS EXPLICITY 10 1ft COIISIE ENGINEERIE II.C N WRITING, NI COIISIE ENGINEERIE II.C DISCINIS HJ. UIIILIJY ASSOCIITED WITH 11E REUSE, H.TERATION OR UDIRICATION OF 11E CONTEHIS IEREJN.

SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD LOS ALAMOS, NM 87544

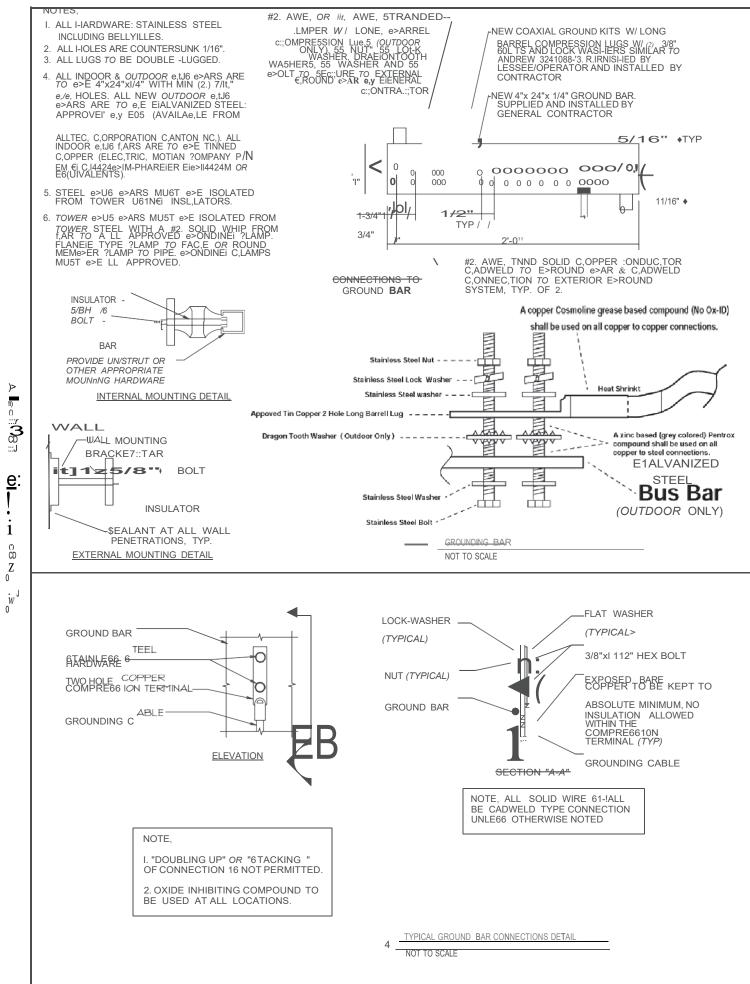
SITE TYPE: WATER TANK

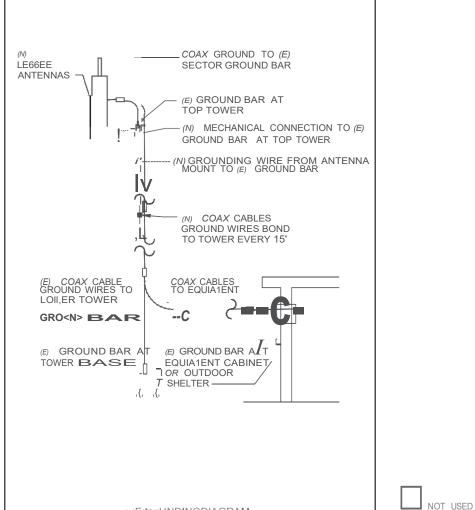
SHEET TITLE:

RF DATA SHEET & COAX ANTENNA DIAGRAM

SIIEET NUMBER:

CS Attachment B







Veri onwireless

4821 EUBANK BLVD NE

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



IT IS A YIOIATION OF LIW RIR /Hf PERSON UIIESS TIEY ACTIAL INIER 11£ DIRECIIOH OF A LICENSED PROFESSIONIL ENGIIEER 10 H.TER THS DOWIENT. UILESS EXPLICITIY 10 1ft COIISIIE £HGINEERH: IIC N WRITNG, NII COIISIIE ENGINEERNG IIC DISCIMIS HJ. U!IIIJIY A.5SOCIITED wmt 11£ REUSE, H.TERATION OR UOIIFICATION OF 11£ CONTEHIS IEREN.

SITE VAME: NM4 QUEMAZON

ADDRESS: 80 N MESA RD

LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

SHEET TITLE:

GROUNDING DETAILS

SIIEET NUMBER:



TYPE TA

2 ∷;E;ts=UNDINGDIAGRAM

TYPE XA TYPE GT <u>TYPE 1-1</u>6 <u>TYPE 2-YA-2</u> TYPE YN TYPE 66

TYPE NC TYPE GY

TYPE VV TYPE V6

NOT TO SCALE

TYPE VB TYPE PT TYPE GR

TYPICAL EXOTHERMIC WELD DETAILS

NOT TO SCALE

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. ADMINITRATIVE 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
Name of the second	BY:	
NAOMI D. MAESTAS	PHILO S. SHELTON III, P.E.	DATE
COUNTY CLERK	UTILITIES MANAGER	
Approved as to form:		
J. ALVIN LEAPHART		
COUNTY ATTORNEY		

STATE OF NEW MEXICO) : SS
COUNTY OF LOS ALAMOS)
	nowledged before me thisday of May 2024, s Manager for the Incorporated County of Los Alamos.
My Commission Expires:	NOTARY PUBLIC

	Cellco Partnership, D/B/A Verizon Wireless
	Ву:
	Name:
	Date:
	Title:
STATE OF ARIZONA) : SS COUNTY OF MARICOPA)	
evidence to be the person whose name acknowledged to me that he executed the s	me,
I certify under PENALTY OF PERJURY under paragraph is true and correct.	under the laws of the State of Arizona that the
WITNESS my hand and official seal.	
	Signature of notary Public
(Seal)	

Amendment No. 3
Lease for Antenna Collocation and Facilities Site
between Incorporated County of Los Alamos and Cellco Partnership, dba Verizon Wireless

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



VERIZON SITE NAME:

NM4 QUEMAZ

SITE ADDRESS:

280 N MESA RD LOS ALAMOS, NM 87544

EXISTING COMMUNICATION SITE 5G L-SUB6 - CARRIER ADD

PROJECT TYPE

SITE TYPE:

PROPER	PROPERTY INFORMATION	PF	PROJECT TEAM
SITE COORDINATES: (LAT/LONG)	35.896674* / -106.295104* 35° 53' 48.02"N / 106' 17' 42.37"W	SITE REP:	VERIZON CONSTRUCTION MANAGER BRANDON STATION 505,991 6330
GROUND ELEV:	7349'± AMSL (NAVD88)		
JURISDICTION:	LOS ALAMOS COUNTY	ENGINEERING FIRM: ADDRESS:	COMSITE ENGINEERING, LLC 3060 MERCER UNIVERSITY DR.
COUNTY:	LOS ALAMOS COUNTY		SUITE 210 ATLANTA, GA 30341
CITY/TOWN:	LOS ALAMOS	CONTACT:	PATRICK COLLINS
APPLICANT/LESSEE:	VERIZON WIRELESS	PHONE:	404.825.0981
ADDRESS:	4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111	Structural engineer: Address:	GEOSTRUCTURAL, LLC. P.O. BOX 2621
TOTAL LEASE AREA:	XXXX SQ. FI.		BOISE, ID 83701
PROPERTY OWNER:	INCORPORATED COUNTY OF LOS ALAMOS		
ADDRESS:	2451 CENTRAL AVE, STE A LOS ALAMOS, NM 87544	\overline{f}	<u>APPROVALS</u>
			DATE:
CONTACT: PHONE:	TIM GLASCO 505.662.8148	VERIZON SITE AQ:	
TOWER OWNER: ADDRESS:	INCORPORATED COUNTY OF LOS ALAMOS 2451 CENTRAL AVE, STE A LOS ALAMOS, NM 87544	VERIZON RF:	
		VERIZON CONST.:	
CONTACT: PHONE:	TIM GLASCO 505.662.8148	VEDIZON ODO:	
POWER COMPANY:	XXXX	VENZON OF 3:	

Veri_onwireless

INDEX

DRAWING

ALBUQUERQUE, NM 87111

EXISTING AND PROPOSED TOWER ELEVATIONS EXISTING AND PROPOSED ANTENNA PLANS RF DATA SHEET & COAX ANTENNA DIAGRAM

2 2 2 5

GROUNDING DETAIL:

GN3 SYMBOLS & ABBREVIATIONS
C1 SITE PLAN

GENERAL NOTES

EQUIPMENT PLAN

3060 MERCER UNIVERSITY DR.

ATLANTA, GA 30341

MA

DRAWN BY

4821 EUBANK BLVD NE

SCOPE DESCRIPTION **PROJECT**

LANDLORD:

×

TELCO COMPANY:

띪
COMPRISED
띪
WILL
PROJECT
2

CHANGES TO THE EXISTING VERIZON TOWER EQUIPMENT:

REMOVE (9) EXISTING ANTENNAS

REMOVE (6) EXISTING DIPLEXERS

INSTALL (9) NEW ANTENNAS

INSTALL (3) NEW CBRS RRH'S

CHANGES IN THE EXISTING VERIZON EQUIPMENT AREA: INSTALL (1) NEW C-BAND

04/06/23 ISSUED FOR CONSTRUCTION 04/05/23 ISSUED FOR REVIEW

DESCRIPTION

DATE

A P

LIGHTING/SIGNAGE:
UGHTING/SIGNAGE:
UCHTING/SIGNAGE:
COMPRELESS TELECOMMUNICATIONS FACULTY SHALL MEET THE NIGHT SKY RESTRICTIONS OF THE
COMPREHENSIVE CITY ZONING CODE. LIGHTING OR SIGNS WILL BE PROVIDED ONLY AS REQUIRED BY FEDERAL
OR STATE AGENCIES.
FCC. COMPLIANCE
RADATION FROM THIS FACULTY WILL NOT INTERFERE WITH OPERATION OF OTHER COMMUNICATION DEVICES.
ADA COMPLIANCE
THIS FACULTY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH ALL
APPLICABLE BUILDINGS CODES.

AND MEHONING

NEW MEH

22933

COMPLIANCE

BUILDING CODE: ELECTRICAL CODE:

San lidefonso Ra

LIGHTINING PROTECTION CODE: NFPA 780 - 2014, LIGHTINING PROTECTION CODE

ALL CONTRACTOR'S & SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

IT IS A VOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTIVE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY AGEED TO BY CONSITE EDIMENSIONE LLE IN WINNING, AND COLKSITE BURNERSHIK LL DISCLAMES ALL UNGLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBILL REJSE, ALTERATION OF THE CONTENTS HERBILL

SITE NAME: NM4 QUEMAZON

280 N MESA RD LOS ALAMOS, NM 87544

ADDRESS:

SITE TYPE: WATER TANK

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC

GENERAL COMPLIANCE
1. NO HAZARDOUS OR COMBUSTIBLE MATERIAL WILL BE STORED WITHIN THE FACILITY.
2 DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. E. COMPLIANCE CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF 24-10BC

2. CONTRACTOR TO INSTALL FIRE DEPARTMENT APPROVED "KNOX BOX" PER DEPARTMENT REGULATIONS.

ZONING NOTES

ABANDONMENT:
ABANDONMENT:
ALL WIRELESS TELECOMMUNICATIONS FACILITIES WHICH ARE NOT IN USE FOR THREE CONSECUTIVE MONTHS
ALL WIRELESS TELECOMMUNICATIONS FACILITY OWNER. THIS REMOVAL SHALL TAKE
SHALL BE REMOVED BY THE WINGTES THE END OF SUCH THREE MONTH PERIOD. UPON REMOVAL THE SITE SHALL
BE REVEGETATED TO BLEND IN WITH THE EXISTING SURROUNDING VEGETATION.

BE REFERENTED. TO BLEND IN WITH THE EXISTING SURROUNDING VEGETATION.
HEALTH SUBJES.
EVER WIRELESS TELECOMMUNICATIONS FACILITY SHALL MET HEALTH AND SAFETY STANDARDS FOR ELECTROMACHERIC FIELD BAINSONS AS ESTABLISHED BY THE FEDERAL COMMUNICATIONS COMMISSION OR ANY SUCCESSOR THEREOF , AND ANY OTHER FEDERAL OR STATE AGENCY.

ECC.
EVERY WIRELESS COMMUNICATIONS FACILITY SHALL MET THE REGULATIONS OF THE FCC REGARDING PHYSICAL AND ELECTROMAGNETIC INTERFERENCE. THE ONLY SIGNAGE
WHICH IS PERMITTED IS THAT WHICH IS REQUIRED BY STATE AND FEDERAL LAW.

STATE, ALL CONTRACTOR'S & SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STA AND LOCAL CODES AS ADOPTED BY THE LOCAL ANTHORITY HANNE, 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.

SSONAL ENOR

PRO

international Building code 2015 National Fire Protection Association (NFPA) 70 National Electrical Code 2014

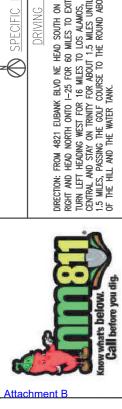
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222—G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: TELEN ANTENNA BULDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

EQUIPMENT
IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS
(FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
TELCORDIA GR-1275, GENERAL INSTALATION REQUIREMENTS
TELCORDIA GR-1203, GOAZHA CABLE CONNECTIONS
ANSI 11.311, FOR TELECOM — DC POWER SYSTEMS — TELECOM, ENVIRONMENTAL PROTECTION

TITLE SHEET

SHEET NUMBER:



1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE PROPOSED PROJECT.

2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE

AS SHOWN PROR TO COMMENCEMENT OF ANY WORK.

3. ALL FIELD MODIFICATIONS BEFORE, DURING, OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY A VERIZON WIRELESS REPRESENTATIVE.

4 INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS,

UNLESS INDICATED OTHERWISE

6. CONTRACTOR SYALL BE SOLET RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.

7. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REJAIN. CONTRACTOR SHALL REPAIR KY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF A VERIZON WIRELESS REPRESENTATIVE.

1. THE CONTRACTOR IS RESPONSIBLE FOR RED—LINING THE CONSTRUCTION PLANS TO ILLUSTRAIT THE AS—BULL CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY VERIZON WIRELESS, THE CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WITH ONE COPY OF 5. NOTIFY VERIZON WIRELESS, IN WIRTING, OF ANY MAJOR DISCREPANCIES REGARDING THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CARRIFICATIONS FROM A VERIZON WIRELESS REPRESENTATIVE AND ADJUSTING THE BID ACCORDINGLY.

9. VERIFY ALL FINAL EQUIPMENT WITH A VERIZON WIRELESS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH THE CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS. ALL RED-LINED DRAWINGS.

EUBANK BLYD., TURN RIGHT AND HEAD WEST ONTO MONTGOMERY BLYD., TURN T #282 IN SANTA FE, TAKE US84/US 285 NORTH TO POJOAQUE AND HWY 502, PASSING THE ARPORT ON THE MESA, CONTINUE PAST THE "Y" IN THE ROAD AT IL DIAMOND DRIVE. TURN RIGHT ON DIAMOND AND HEAD NORTHEAST FOR ABOUT OUT, PROCEED THROUGH ROUND ABOUT TO MESA, FOLLOW MESA TO THE TOP

OCATION MAP

DRIVING SPECIFIC

OR BETTER.

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

NOTES GENERAL WORK

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- THE WORK SHALL BE RELOCATED AS DIRECTED BY ING PIERS AROUND OR NEAR E BUT NOT BE LIMITED TO 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHLL BE RELL CONTRACTOR. EXTRAE CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCANATING OR DRILLING UTILITIES, SUBCONTRACTOR SHALL PROVINE SAFETY TRANING FOR THE WORKING CREW, THIS WILL INCLUDE BIA) FALL PROTECTION B) CONFINED SPACE (C) ELECTRICAL SAFETY D) TRENCHING AND EXCANATION.
- 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.

- I THE EXECUTION OF THE WILL NOT INTERFERE WITH 5. ALL EXISTING UNACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE E WORK, SHALL BE REMOYED AND/OR CAPPED, PLUGEED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL IN THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- 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.
- 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. 8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. EQUIPMENT OR DRIVEWAY, 11. THA AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABALIZED 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 JUSISDICTION'S GUIDLINES FOR EROSION AND SEDIMENT CONTROL.

STEEL NOTES STRUCTURAL

- 1. ALL STEEL SHALL BE GALVANIZED PER ASTM A 123 AND CONFORM TO THE FOLLOWING MINIMUM SPECS:
 HSS SHAPES
 HSS SHAPES
 ASTM ASOO, GR. B
 MISC. ANGLES & CHANNELS
 ASTM A36
 BASE PLATES
 ASTM GR. 36
 BASE PLATES
 ASTM GR. 36
- OTHERWISE. ALL BOLTED 2 ALL BOLTS SHALL BE GALVANIZED PER ASTM A153 AND CONFORM TO ASTM GRADE A325 UNLESS NOTED CONNECTIONS SHALL BE EQUIPED WITH A PROPER, AND APPROVED NUT-LOCKING DEVICE.
- BE PERFORMED BY 3 ALL WELDING WORK SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING SHALL CERTIFIED WELDERS ONLY, WELDING ELECTRODES SHALL BE E70XX.
- 5 THE CONTRACTOR SHALL SUBMIT DETAILED, ENGINEERED, COORDINATED AND CHECKED SHOP DRAMINGS FOR ALL STRUCTURAL STEEL TO THE CODES, LATEST EDITION. ENGINEER OF RECORD TO REVIEW FOR COMPLIANCE WITH DESIGN INTENT PRIOR TO THE START OF FAB. AND/OR ERECTION. 4 ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECS AND
- 6 TORCH-CUTIING OF ANY KIND SHALL NOT BE PERMITIED.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 ETOXX ELECTRODED AND WELDING SHALL CONFORM TO AISC, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUN SIZE PER TABLE JZ.4 IN THE AISC "MANUAL OF SITEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
 - 9. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE $(3/4^*6)$ Connections and shall have minimum of two bolts unless noted otherwise.
- NOTED OTHERWISE. 10. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA, ASTM A 307 BOLTS UNLESS
- "SELECTION, DESIGN, S SITE FACILITIES". ANCHORS MINGS. NO REINFORCING STEEL 11. POST INSTALLED ANCHORS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 36S-T18-00013 NEMEZIATION, INSPECTION AND IESTING OF ADHESINE AND MECHANICAL EXPANSION ANCHORS FOR WIRELESS SHALL BE HILLI OR APPROVED EQUAL INSTALLED, INSPECTED AND TESTED AS SHOWN ON THE DESIGN DRAWN SHALL BE CUT WITHOUT PROPOR BRONNERING APPROVAL.

WOOD FRAMING NOTES

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

Fb = 1,300 psi
F = 1,300 ksi

CONCRETE NOTES:

- 1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI @28 DAYS
- 2. ALL REINFORCING STEEL SHALL CONIFORM 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.

Attachment B

- 1. METAL LATHING & ACCESSORIES SHALL CONFORM TO ASTM 1063-86, MISFA "TECHNICAL BULLETIN 101 " AND ASTM C 841 FOR SELECTION OF METAL LATH FOR EACH APPLICATION INDICATED, AND FS QQ-L-101. MANUFACTURER'S STANDARD STEEL GALYANIZED FINISH (ASTM A 525 G90) ON STEEL PRODUCTS.
- STUCCO MESH SHALL BE GALVANIZED HEXACONAL WOVEN SIDE MESH 1-1/2", 17 GA., SELF FURRED.
- EXTERIOR GALVANIZED DIAMOND MESH LATH OF 3.4 Ibs. PER SQ. YD. MAY BE USED INSTEAD OF STUCCO NETTING.
- 4. THREE COAT STUCCO SYSTEM TO BE USED CONSISTING OF MANUFACTURER'S STANDARD PRODUCTS CONSISTING O SEPARATE BASE COAT, 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.
- 7. CONTRACTOR TO PROVIDE EXPANSION AND CONTROL JOINTS WHERE NOTED ON PLANS AND AT ALL DISSIMILAR MATERIALS JUNCTIONS.
- 8 CONTRACTOR TO WOIST CLIRE 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:

- 1. CONCRETE MASONRY UNITS (CMU) PER ASTM C90.
 A PROVIDE CAUL WITH AN AREAGE UNIT COMPRESSIVE STRENGTH OF 1900 PSI.
 B. PROVIDE NOMINAL FACE DIMENSIONS OF 8"WAS"HATG". A ACTUAL DIMENSIONS OF
 7-5/8"x15-5/8"x15-5/8". ROVIDE SPECIAL SHAPES AS REQUIRED AT CORNERS, JAMIES, & BOND BEAMS
 C. PROVIDE TYPE I, MOISTUE CONTROLLED UNITS.
 D. PROVIDE NORMAL WEIGHT UNITS.
- 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 ASTIM C476.
- PROVIDE REINFORCING STEEL AND GROUT SOLID THREE CORNER CELLS AT ALL CORNER LOCATIONS.
- 5. AT WALL OPENINSS & END OF WALL LOCATIONS, PROVIDE REINFORCING & GROUT SOLID LAST TWO CELLS, OR THE 1 CELLS ON EITHER SIDE OF OPENING. 6. GROUT SOLID ALL BOND BEAMS. RUN REINFORCING CONTINUOUS AROUND ALL CORNERS WITH APPROPRIATE SPLICES.

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70 BE 7. ALL CAU BLOCK TO HAVE EXTERIOR DECORATIVE FINISH TO MATCH BLOCK WALL OF ADJACENT BUILDING. CAU BLOCK WALL ' PAINTED TO MATCH ADJACENT BUILDING.

GROUNDING NOTES

- 1. 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 STE-SPECIFIC (UL, LP), OR NFPA), LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TAKEN CHOUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY MOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- GROUNDING ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN 2. ALL GROUNDING ELECTRODE GES'S) SHALL BE BONDED TOG ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL—OF—POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 81) 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.
- 4. METAL PACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH CREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- 5. EACH BTS 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 BTS, 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- 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 BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE. THE BRIDGE AND THE TOWER GROUND BAR.
 - ALUMINUM CONDUCTOS OR COPPER CLAD STEEL CONDUCTORS SHALL NOT BE USE FOR GROUNDING CONNECTIONS.
- 10. MISCELLAMEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NED.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS BY BONDING ACROSS THE DISCONTINUITY WITH 6 ANG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS 12. 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 SUPPORT TO BE THOUGH WILLS OR FLOORS, WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MET CODE REQUIREMENTS OR LOCAL CONDUITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METALLIC CONDUIT SHALL BE USED. WHERE COMBUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT).

INSTALLATION NOTES ECTRICAL

- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF " AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- all circuits shall be segregated and maintain minimum cable separattion as required by the Nec) telcordia. 3.
- 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 PROFIECTION, OR EQUAL), THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
- 6. 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.
- 용 7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
 - 8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAAMCOID PLASTIC LABELS.

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- 9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TIE WRAPS.
- 10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 MEW OR LANGER), 600Y, OIL RESISTANT THHN OR THIM-2, CLASS B STRANDED COPPER CABLE RAIED FOR 90° C (WET AND DRY) OPPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UMLESS OTHERWISE SPECIFIED.
- 11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 ANG OR LAGER), 600V, OIL RESISTANT THHN OR THIMN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (MET AND NRY) 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 ANG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- AND 13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR LAGER), 600V OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET , 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 BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75'C (90'C IF ANALLABLE).
 - 15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH MENA, UL, ANSI/IEEE, AND NEC.
- 16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- RIGID 17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMACE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EAT), 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 UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
 - 21. LIQUID-TIGHT FLEXBLE 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 NEMA, ANSI/IEEE, AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN NUMBED; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR 24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE. DOWNWARD; SHALL B BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR XY-COATED SHEET STEEL, MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R BETTER) OUTDOORS. 26. EQ EPOXY-
- 27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA 0S 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SMITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 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.

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ALBUQUERQUE, NM 87111 4821 EUBANK BLVD NE



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



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SITE NAME: NM4 QUEMAZON

 $280~\mathrm{N}$ MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

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

SHEET NUMBER:

GN1

DIVISION 01000 - GENERAL REQUIREMENTS

PART 1 - GENERAL

- ALL WORK TO BE PERFORMED BY CERTIFIED NETWORK INSTALLATION PERSONNEL. MINIMUM OF TWO MEMBERS PER CREW.
- OF A REFER TO VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS. IN CASE CONFLICT, VERIZON WIRELESS STANDARD CONSTRUCTION SPECIFICATIONS (LATEST CONFLICT, VERIZON WIRELESS EDITION) SHALL BE FOLLOWED. 2
- A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/FROPOSED COMMUNICATION STRUCTURE AND ITS COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT THE EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND APPURTENANCES. PRIOR TO THE INSTALLATION OF THE ROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED

PART 2 - GENERAL NOTES

- ANCES, AL AND ${\sf ALL}$ THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINA RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE APPLICED SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWNINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) VERIZON WIRELESS'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
- LABOR THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LAND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED
- S R BIDS TO THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF B PEFCPRING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND VERIEY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
- UCTION THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUC DRAWINGS / CONTRACT DOCUMENTS. ė.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM'S OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT.
 - THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND ECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY. THE CONTRACTOR SHALL 6.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SITE CONDITIONS DURING CONSTRUCTION, UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ALL UNNECESSARY MATERIAL. 12

Attachment B

PART 2 - GENERAL NOTES (CONTINUED)

- 13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIC BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTIRC, 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 ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS'S REPRESENTATIVE WHERE A CONFLICT COCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY VERIZON WIRELESS'S REPRESENTATIVE.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB. 5.
- THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO CONDUCTING SITE SWEEPING. 뿓 16.
 - THE GENERAL CONTRACTOR SHALL IN ALL INSTANCES CONFORM TO THE SPECIFICATIONS ISSUED BY VERIZON WIRELESS. 17.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT STRUCTURAL ENGINEER'S APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE TRAING OF THE STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND FUMES. ALL MATERIAL BE UL APPROVED FOR THIS PURPOSE.

WOOD

- 1. ALL MATERIALS INCLUDING PLYWOOD SHALL BE AS SPECIFIED ON THESE PLANS.
- SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 - GENERAL

WORK INCLUDED 1.01

- A. ANTENNAS AND FIBER CABLES SHALL BE AS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ADHERENCE TO OSHA STANDARDS IS MANDATED.
- INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS SPECIFICATIONS. ä
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- INSTALL FIBER CABLES AND TERMINATION'S BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL FIBER CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED. o.

PART 1 - GENERAL

WORK INCLUDED 1.01

- THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL MATERIALS TO BE FURNISHED, AND WITHOUT LIMITING THE GENERALITY THEREOF, INCLUDING ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEM INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. INCLUDING Ą.
- 1. STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES
- 2. WELDING AND BOLTING OF ATTACHMENTS.

REFERENCE STANDARDS 1.02

- THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN: Ą
- 1. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED "COMPILATION OF ASTM STANDARDS IN BUILDING CODES"
- 2. AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN "STANDARD D1.1-2006, STRUCTURAL WELDING CODE".
- AISC: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"; "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

PART 2 - PRODUCTS

2.01 MATERIALS

ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S REVIEW IF REQUESTED. STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A36 AND A50 FOR STRUCTURAL STEEL. ė

- $\overline{\mathbf{c}}$ WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING SHALL CONFORM TO ASTM A-233, E70 SERIES. BARE ELECTRODES AND GRANULAR FLUX USED IN THE SUBMERGED ARC PROCESS SHALL CONFORM TO AISC SPECIFICATIONS. ш
 - FIELD WELDING SHALL BE DONE AS PER AWSD1.1 REQUIREMENTS VISUAL INSPECTION ACCEPTABLE WHEN FILLET SIZES ARE NOT SHOWN. ပ
- STUD WELDING SHALL BE ACCOMPLISHED BY CAPACITOR DISCHARGE (CD) WELDING TECHNIQUE USING MIDWEST FASTENERS, INC. CD100 CAPACITOR DISCHARGE STUD WELDER, NELSON STUD WELDER OR EQUAL. o.
- 2.2 PROVIDE STUD FASTENERS OF MATERIALS AND SIZES SHOWN ON DRAWINGS OR AS RECOMMENDED BY THE MANUFACTURER FOR STRUCTURAL LOADINGS REQUIRED.
- 2.3 FOLLOW MANUFACTURES SPECIFICATIONS AND INSTRUCTIONS TO PROPERLY SELECT AND INSTALL STUD WELDS.
- BOLTING 2.03
- BOLTS SHALL BE 3/4" ø (MINIMUM) CONFORMING TO ASTM A325, HOT DIP GALVANIZED OR ASTM A153. NUTS SHALL BE HEAVY HEX TYPE.
- ALL BOLTS SHALL BE INSTALLED IN SLIP CRITICAL CONNECTIONS CONFORMING TO USING THE 1/4" TURN METHOD. œ

2.04 FABRICATION

STANDARDS AWS FABRICATION OF STEEL SHALL CONFORM TO THE AISC AND CODES. Ą

2.05 FINISH

Z AFTER FABRICATION BE HOT-DIP GALVANIZED ALL STRUCTURAL STEEL SHALL ACCORDANCE WITH ASTM A123. ÷

PROTECTION

UPON COMPLETION OF ERECTION INSPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT. COLOR TO MATCH THE GALVANIZING PROCESS. ġ

PART 3 - EXECUTION

ERECTION OF STEEL 3.01

- PROVIDE ALL ERECTION EQUIPMENT, BRACING, PLANKING, FIELD BOLTS, NUTS, WASHERS, DRIFT PINS, AND SIMILAR MATERIALS WHICH DO NOT FORM A PART OF THE COMPETED CONSTRUCTION BUT ARE NECESSARY FOR ITS PROPER ERECTION. Ą
- ERECT AND ANCHOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC REFERENCE STANDARDS. ALL WORK SHALL BE ACCURATELY SET TO ESTABLISHED LINES AND ELEVATIONS AND RIGIDLY FASTENED IN PLACE WITH SUITABLE ATTACHMENTS TO THE CONSTRUCTION OF THE BUILDING. ш
- TEMPORARY BRACING, GUYING AND SUPPORT SHALL BE PROVIDED TO KEEP THE STRUCTURE SAFE AND ALIGNED AT ALL TIMES DURING CONSTRUCTION, AND TEMPORARY LOADS AND STAY WITHIN SAFE CAPACITY OF ALL BUILDING COMPONENTS. ပ

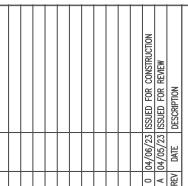


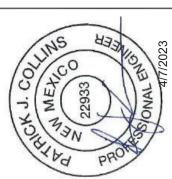
ALBUQUERQUE, NM 87111 4821 EUBANK BLVD NE



MA

DRAWN BY:





IT IS A WOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTINE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY ARREDS TO BY COASITE EDAMERICHE LLE IN WINNER, AND COLKEITE BURNERSHIK LL DISCLAMES ALL UMBLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBIN

SITE NAME: NM4 QUEMAZON

 $280~\mathrm{N}$ MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

GENERAL NOTES:

SHEET TITLE:

TOWERS

SHEET NUMBER:

GN2

Control Cont	4821 EUBANK BLVD NI	ALBUQUERQUE, NM 871.	ComSife	ENGINEERING, LLC 3060 MERCER UNIVERSITY DR. SUITE 210	ATLANTA, GA 30341 404 • 825 • 0981	DRAWN BY: MA CHECKED BY: PC					0 04/06/23 ISSUED FOR CONSTRUCTION A 04/05/23 ISSUED FOR REVIEW	V DATE DESCRIPTI	APICK J. CO.	A (12933) O (12933) O	(田)	SONAL ENON	477/2023	IT IS A MOLATION OF LAW FOR ANY PERSON UNLESS THEY A ACTING UNDER THE DRECATION OF A LUCENSED PROFESSION BOANEMER TO A LUCKS EXPLICITLY ARR TO BY COMSITE DISINEERING LLC IN WRITING, AND COMMS	ENGNEERING LLC DISCLAMS ALL LUBBILITY ASSOCIATED WITH RELISE, ALTERATION OR MODIFICATION OF THE CONTENTS HER	SITE NAME NM4 QUEMAZO	ADDRESS: 280 NMESA RD		SHE TYPE: WATERTANK	SHEET TITLE:
Comparison Com	\bigcirc I	SHEET NO.	/s	X	SECTION NO. SHEET NO.	DETAIL NO.	SHEET NO.		SPOT ELEVATION OR DATUM POINT	+	PROPERTY LINE													
Company	temporary telephone television	terra cotta terrazzo thick thick theshold		top of curb/concrete top of steel top of steel	typical Underwriters Laboratory	unfinished uniless noted otherwise utility underside	vacuum	vapor barrier varies veneer vertical	vestibule vertical grain vinyl cove base	(1) a (1)	vinyl composition tile vinyl wall covering verify in field	wainscot wall to wall weight	wall hung water closet waterproofing	water repellent/resistant with welded wire fabric	west width, wide window	wire mesn without wood								
Common	ZZ TEMP	57 <u>7</u> 7	TEMP GL	700 700 7.0.	占占	N N N N N N N N N N N N N N N N N N N	, VA	VAR VNR VERT	VEST VG VCB	10//	N N N N	WSCT WTW WT	HOG WWW	WW.	MQM MM	O M M M							_	_
AS ABBREVATIONS COMPSIGNO, composite COMPSIGNO, compsigno, composite COMPSIGNO, comps	0000 0000 0000	OPP Opposite OD Outside OA overall OH overhea		_				P.C. precast PCCONC precast concrete PREFAB prefabricate(ed) PL property line	P.C. PLAS portland cement plaster									sealant & section sheathing					susper symm syster	YF MIL
AS ABBREVIATIONS COMB COMP CONST CONST CONTR	gage, gauge galvanized ganvanized contract(or)	grass, grazinig grade, grading, ground grout	gypsum gypsum handicapped	nardware hardwood header heating	heating/ventilating/air conditioning head heicht	hexagonal hollow core hollow metal	horizontal hot water water	inch include(d), (ing)	inside diameter insulate(d), (ion) interior intermediate		joint junction box	kitchen knockout knock(ed) down	label laboratory			louver lead coated	manhole manufacture(er) masonry masonry openina	materials maximum mechanic(al) membrane	metal minimum mirror	miscellaneous molding, moulding moisture resistant mullion	natural nominal north	not in contract not to scale number		
AS ABBREVIATIONS e COMB control control control conditioning condi	O O O O O O O O O O O O O O O O O O O	GRD GRTD WB	GYP HC	HHDWD	S H H H	¥ ¥ ¥	THIO 2 V X	ZZ!	UNSUL NTM NTM		느	<u></u>	LAB	EEEE	THA	7. 7. 9.	MAM MAS MO	MAAK MECA MBRN	ANN S	MRD MULL	N N N N O N	N N N N		
AS ABBREVIATIONS e COON nell coon certaine coon certaine coon coon certaine coon	column combination composition, composite	concrete concrete masonry unit construction	control joint copper corridor		coordinate	denolish, demolition department detail	diagonal diameter dimension double	division door down	downspour drainage drawer drawing	each each face	each way east electric(al) electric water cooler	elevator, elevation emergency enclose(ure)	equipment escalator estimate exhaust	existing expansion expansion bolt expansion joint	exposed exterior existing to remain	Factory Mutual face of	fasten, fastener finish(ed) finished floor line fire alarm	fire extinguisher fire extinguisher cabinet fireplace fireproof	fire-retardant fixture flashing	floor drain fluorescent foot, feet footing	foundation frame(d), (ing) furred, furring future			
and angle at angle at centerline channel penny perpendicular plote pound, number round square with EVATION SPECIFIC ABBREVIATIONS S.E. = CENHER OF RADIAHON TOUND SQUARE S.E. = TOP TIP LEVEL TOP TIP LEVEL TOP OF STRUCTURE TOP O	COMP	CONC	20000 R R R R	CTR FLG	0 0 0 0 0 0	DEPT DTL	DIAG DIAM DIR	l≥888	DWR DWR GR	4 45	ELEC EWC	ENER ENER EOCL	ESC P			™ 0	FAST FFL FFL	32.E	FESTE PESTE	FEUOR FI	SER SE			
SYMBOLE STATE OF STA	YMBOLS USED AS and angle				#/ #ICEVATION SPECIFIC ABBREVIATIONS	C.O.R. = CENTER OF RADIATION A.L. = ATTACHMENT LEVEL	= BOTTOM = TOP TIP	= TOP OF CONCRETION OF BASE	COMMON ABBREVIATIONS	above above finished												PLAS		



4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111

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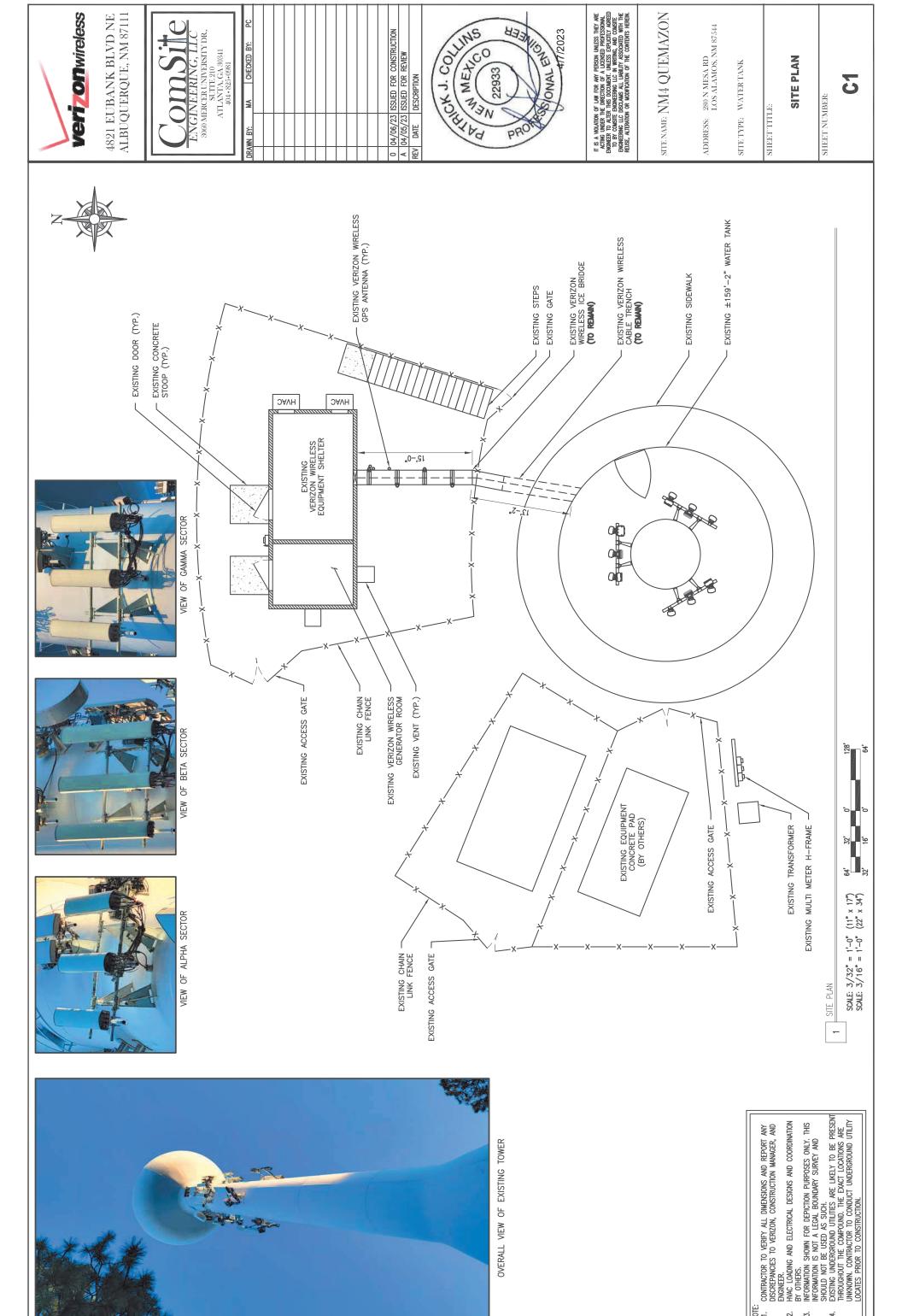
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SHEETTITLE

GENERAL NOTES:
SYMBOLS, ABBREVIATIONS,
& LEGEND

GN3 SHEET NUMBER:



÷ ∾ ∾ Attachment B

SSONAL ENGINE **Verizon**wireless 4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111 IT IS A WOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTINE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY ARREDS TO BY COASITE EDAMERICHE LLE IN WINNER, AND COLKEITE BURNERSHIK LL DISCLAMES ALL UMBLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBIN SITE NAME: NM4 QUEMAZON ATAMICK J. CO. $280~\mathrm{N}$ MESA RD LOS ALAMOS, NM 87544 04/06/23 ISSUED FOR CONSTRUCTION 04/05/23 ISSUED FOR REVIEW DATE DESCRIPTION 3060 MERCER UNIVERSITY DR., SUITE 210 **EQUIPMENT PLAN** NEW MER ATLANTA, GA 30341 404 - 895 - 0981 **EXISTING** SITE TYPE: WATER TANK 22933 22 SHEET NUMBER: MA SHEET TITLE: ADDRESS: PRO DRAWN BY: GAMMA ±160' ±107′ ±38, ±15′ CABLE *ALL DIMENSIONS TO BE VERIFIED IN FIELD (V.I.F.) BETA ±160' ±38, ±107′ ±15′ EXISTING ESTIMATED INSIDE VIEW OF COAX ENTRY PORT OUTSIDE VIEW OF COAX ENTRY PORT LENGTHS* (1) 12x24 HYBRILEX ALPHA ±160' COAX CONFIGURATION & CABLE LENGTHS +38 ±107′ ±15′ (1) coax U (1) (1) COAX (FT) U (1) COAX U (1) COAX (1) COAX SECTOR VERT HDRZ, +10% COAX PORTS E=EMPTY
U=USED TOTAL (1) coax (1) COAX (1) cox 2 (1) COAX (1) COAX (1) COAX EXISTING 4" DIAMETER (TYP.) HVAC HVAC EXISTING VERIZON WIRELESS GPS ANTENNA (TYP.) EXISTING VERIZON WIRELESS ICE BRIDGE (TO REMAIN) EXISTING TELCO BOARD EXISTING DOOR (TYP.) EXISTING CONCRETE STOOP (TYP.) INSTALL (1) NEW C-BAND 6648 BBU EXISTING COAX ENTRY PORT EXISTING LTE FIF RACK EXISTING AC PANEL EXISTING DC POWER PLANT EXISTING BATTERY STACK EXISTING VERIZON WIRELESS —
(1) 12x24 HYBRIFLEX
(12) COAX CABLES
(TO REMAN) EXISTING VERIZON WIRELESS EQUIPMENT SHELTER EXISTING DISCONNECT EXISTING VERIZON WIRELESS GENERATOR ROOM CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO VERIZON, CONSTRUCTION MANAGER, AND ENGINEER. HANC LOADING AND ELECTRICAL DESIGNS AND COORDINATION 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. EXISTING VENT EXISTING VENT SCALE: $1/4" = 1'-0" (11" \times 17")$ SCALE: $1/2" = 1'-0" (22" \times 34")$ EXISTING EQUIPMENT PLAN 3.5

Attachment B

SHEET NUMBER: MA SHEET TITLE: PRO ADDRESS: DRAWN BY: 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 PROR TO THE INSTALLATION OF ANY EQUIPMENT ON THE STRUCTURE. IMMEDIATELY REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE STRUCTURAL ANALYSIS TO VERZON AND THE ENGINEER.

TO VERZON AND THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF ALL MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW REFER TO THE STRUCTURAL ANALYSIS AND/OR STRUCTURAL LETIER FOR THE APPROVAL OF ALL MODIFICATIONS 10 AND AUJING EQUIPMENT OF NEW APPURTENANCES.

REFER TO ADDITIONAL DRAWINGS SPECIFIC TO STRUCTURE REINFORCEMENT FOR THIS STE SHOULD THERE BE A REQUIREMENT FOR ANY REINFORCEMENT. REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DETAILS.

REFER TO STRUCTURAL ANALYSIS FOR ALL CARRIERS' APPURTENANCES AS THEY MAY NOT BE SHOWN IN ELEVATION DETAIL. EXISTING VERIZON WIRELESS DOG HOUSE EXISTING VERIZON WIRELESS ICE BRIDGE EXISTING VERIZON WIRELESS EQUIPMENT SHELTER NOTE: INSTALL ALL ANTENNAS AND EQUIPMENT PER THE MOUNT & STRUCTURAL ANALYSIS. COORDINATE ANY MODIFICATIONS WITH VERIZON WIRELESS CM AND ENGINEER. EXISTING VERIZON CHAIN LINK FENCE INSTALL (6) NEW VERIZON WIRELESS PANEL ANTENNAS (TYP. OF 2 PER SECTOR, TOTAL OF 6) EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF EXISTING (3) VERIZON WIRELESS DUAL LOW BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF EXISTING ±159'-2" WATER TANK EXISTING (1) 12-PORT MOVP EXISTING ANTENNAS (BY OTHERS) (TYP.) EXISTING MW DISH PROPOSED ELEVATION INSTALL (3) NEW VERIZON WIRELESS AIR ANTENNAS WITH INTEGRATED RADIO (TYP. OF 1 PER SECTOR, TOTAL OF 3) INSTALL (3) NEW VERIZON WIRELESS CBRS RRH'S (ABOVE) (TYP. OF 1 PER SECTOR, TOTAL OF 3) EXISTING VERIZON WIRELESS (1) 12x24 HYBRIFLEX (12) COAX CABLES T.O.S. ±159'-2" GRADE = 0'-0"C.O.R ±107'-6" C.O.R ±117'-6" C.O.R ±84'-0" B.O.P.B. ±0'-6" C.O.R ±97'-0" T.T. ±168'-8" -: 5 ნ. 4. შ. 7 EXISTING VERIZON WIRELESS EQUIPMENT SHELTER EXISTING VERIZON WIRELESS DOG HOUSE EXISTING VERIZON WIRELESS ICE BRIDGE EXISTING VERIZON CHAIN LINK FENCE 192 EXISTING (9) VERIZON WIRELESS PANEL ANTENNAS (TYP. OF 3 PER SECTOR, TOTAL OF 9) EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REJAN) 3) — EXISTING (3) VERIZON WIRELESS
DUAL LOW BAND RRH'S
(TYP. OF 1 PER SECTOR, TOTAL OF 3)
(TO REMAN) EXISTING ±159'-2" WATER TANK EXISTING (1) 12-PORT MOVP (TO REMAIN) 96 EXISTING ANTENNAS (BY OTHERS) (TYP.) EXISTING MW DISH 림 $(11" \times 17")$ $(22" \times 34")$ NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO VERIZON CONSTRUCTION MANAGER AND ENGINEER EXISTING VERIZON WIRELESS — (1) 12x24 HYBRIFLEX (12) COAX CABLES (TO REMAN) EXISTING (6) VERIZON WIRELESS DIPLEXERS (TYP. OF 2 PER SECTOR, TOTAL OF 6)

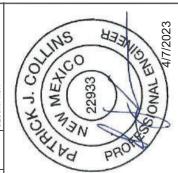
(TO BE REPLACED) SCALE: 1'' = 1/8' - 0''SCALE: 1'' = 1/4' - 0''T.O.S. ±159'-2" C.O.R ±117'-6" C.O.R ±107'-6" $\frac{\text{GRADE}}{\text{GRADE}} = 0' - 0''$ EXISTING ELEVATION B.O.P.B. ±0'-6" C.O.R ±97′_-0" C.O.R ±84'-0" T.T. ±168'-8"

veri onwireless

4821 EUBANK BLVD NE

ALBUQUERQUE, NM 87111

3060 MERCER UNIVERSITY DR., SUITE 210 ATLANTA, GA 30341 04/06/23 ISSUED FOR CONSTRUCTION 04/05/23 ISSUED FOR REVIEW DATE DESCRIPTION



IT IS A WOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTINE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY ARREDS TO BY COASITE EDAMERICHE LLE IN WINNER, AND COLKEITE BURNERSHIK LL DISCLAMES ALL UMBLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBIN

SITE NAME: NM4 QUEMAZON

280 N MESA RD LOS ALAMOS, NM 87544

SITE TYPE: WATER TANK

EXISTING/ PROPOSED TOWER ELEVATION

Attachment B

3

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

3 - EXISTING (3) VERIZON WIRELESS
DUAL LOW BAND RRH'S
(TYP. OF 1 PER SECTOR, TOTAL OF 3)
(TO REMAN) EXISTING ±159'-2" WATER TANK R EXISTING SECTOR MOUNT (TYP. 1 PER SECTOR, TOTAL OF 3) (TO REMAIN) MOVP EXISTING (1) 12-PORT (TO REMAIN) (all) .0-8 (.01 ZA) 山 ALPHA SECTOR (.01 ZA) S-AHQJA 1-AHQJA (*01 SA) EXISTING (9) VERIZON WIRELESS
PANEL ANTENNAS
OF 3 PER SECTOR, TOTAL OF 9)
(TO BE REPLACED) EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO REMAN) EXISTING (6) VERIZON WIRELESS DIPLEXERS (TYP. OF 2 PER SECTOR, TOTAL OF 6) (TO BE REMOVED) (AZ 260°) GAMMA-2 (AZ 260°) OF 3 PER SECTOR, GAMMA-3 (AZ 260°) (TYP.

PROPOSED ANTENNA PLAN 7 COMSITE BIGINEERING, 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 REFORM THE CONSTRUCTUR DRAWINGS AND/OR STRUCTURAL LETTER FOR THE APPROVAL OF ALL MODIFICATIONS TO AND ADDING EQUIPMENT OF NEW APPURTENANCES. REFER TO AND ADDING EQUIPMENT OF NEW APPURTENANCES. REFER TO STRUCTURAL ANALYSIS FOR COAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DEFAILS.

REFER TO STRUCTURAL ANALYSIS FOR CAXIAL AND OTHER CABLE SUPPORT AND CONFIGURATION DEFAILS. 25.4.73

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



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

ALPHA SECTOR

MA

DRAWN BY:

INSTALL (3) NEW VERIZON WIRELESS AIR ANTENNAS WITH INTEGRATED RADIO (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING SECTOR MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)

E-AH91A (°OT SA)

S-AH9JA (*Of SA)

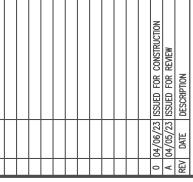
INSTALL (6) NEW VERIZON WIRELESS PANEL ANTENNAS (TYP. OF 2 PER SECTOR, TOTAL OF 6)

1-AHQJA (*01 SA)

EXISTING (1) 12-PORT MOVP

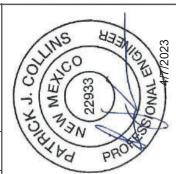
EXISTING (3) VERIZON WIRELESS DUAL HIGH BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3)

INSTALL (3) NEW VERIZON WIRELESS CBRS RRH'S (ABOVE) (TYP. OF 1 PER SECTOR, TOTAL OF 3)



EXISTING (3) VERIZON WIRELESS DUAL LOW BAND RRH'S (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING ±159'-2" WATER TANK



(42 FTA , 120°)

(du).0-,8

15.0" (TYP.)

GAMMA-1 (AZ 260°)

GAMMA-2 (AZ 260°)

GAMMA SECTOR 260' AZIMUTH

15.9" (TYP.)

GAMMA-3 (AZ 260°)

8.1°

7.4" (TMP.)

IT IS A WOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTINE UNDER THE DEDICATION OF A LLOSSED PROFESSIONAL BURNERS TO ALTER THE DOCUMENT, UNLESS EPILICITY ARREDS TO BY COASITE EDAMENEUL LIE IN WINNING, AND COLKEITE BURNEERING LLD DSCLAMES ALL UMBLITY ASSOCIATION WITH THE REJSE, ALTERATION OF PURCONNETS HERBIN

SITE NAME: NM4 QUEMAZON

280 N MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

EXISTING / PROPOSED ANTENNA PLAN SHEET TITLE:

SHEET NUMBER:

C4

SCALE: $1/4" = 1'-0" (11" \times 17")$ SCALE: $1/8" = 1'-0" (22" \times 34")$

THESE ELEMENTS ARE: THE ANTENNA MOUNT FACE WIDTH, ANTENNA WIDTH, DISTANCE BETWEEN ANTENNAS (EDGE-TO-EDGE) & DETAIL

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

MX10FR0860-03 Item ID 4xRx Inst. Type Quantity Item ID Hem ID inst. Type Quantity Quantity 40 PHYSICAL PHYSICAL Inst. Type false false 4xRx 4xRx false false false RET RET RET 120(0002) 10(01) 120(0002) 120(02) 260(0003) 260(03) 10(0001) 10(01) 120(02) 260(03) 10(0001) Centerline Tip Height Azimuth Azimuth Centerline Tip Height Tip Height No Clots Analoide 98.3 10 10 Centerline 84 26 26 Added: 9 PANEL ANTENNA PANEL ANTENNA PANEL ANTENNA Model Model ANDREW CBRS L-Sub6 Make L-Sub6 Make JMA L-Sub6 Make 56 CBRS CBRS THE AWS3 AWS3 AWS3 H AWS 1900 AWS 25 LTE 1900 1900 H TE CDMA LTE 5G 700 850 820 850 200 Added 200 700 LTE TE

Equipment Summary

Equipment Type Location 700 850 1900 AWS CBRS L-Sub6 Make Retained Equipment Type Location 700 850 1900 AWS CBRS L-Sub6 Make Equipment Type Location 700 850 1900 AWS CBRS L-Sub6 Make Equipment Type Location 700 850 1900 AWS CBRS L-Sub6 Make Equipment Type Location 700 850 1900 AWS CBRS L-Sub6 Make Common Coulous Towner AWS CBRS L-Sub6 Make Change Coulous Towner AWS CBRS L-Sub6 Make Change Coulous Towner AWS CBRS L-Sub6 Make Change Coulous Towner AWS CBRS L-Sub6 Common Coulous				
700 850 1900 AWS AWS3 CBRS L-Sube R 700 850 1900 AWS AWS3 CBRS L-Sube R 170 850 1900 AWS AWS3 CBRS L-Sube R 170 850 1900 AWS AWS3 CBRS L-Sube R 170 850 1900 AWS AWS3 CBRS L-Sube R	AWS3	Model Cable Length Cable Siz	Cable Length Cable Size Install Type Quantity Item ID	Item ID
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Location 700 850 1900 AWS AWS3 CBRS L-Sub6 Tower Tower LTE BES LTE LTE LTE	NS AWS3 CBRS L-Sub6 Make	Model Cable Length Cable Siz	Cable Length Cable Size Install Type Quantity Item ID	Item ID
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tol Cabbas Tower Tower LTE 555		Model Cable Length Cable Siz	Cable Length Cable Size Install Type Quantity	Item ID
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Tower LTE LTE	Commiscope	AWR-60	PHYSICAL 6	
Tower LTE LTE	Erforces	0	PHYSICAL 3	
	Erlessen	57 7000	PHYSICAL 3	
ON-Base Towns No.	Raposp	ZI-LACO	PHYSICAL 1	
OVP Box Shelter Rayo	Regressio	CWP-f2	PHYSICAL 1	

Verizonwireless

4821 EUBANK BLVD NE ALBUQUERQUE, NM 87111

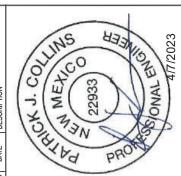
ENGINEERING, LLC 3060 MERCER UNIVERSITY DR., SUITE 210 ATLANTA, GA 30341 404 • 825 • 0981

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Retained: 0

1 PROPOSED ANTENNA CONFIGURATION



IT IS A WOLNTON OF LUW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LLOSSOD PROFESSOWAL BUNGER TO DE CHORAGE. LOE IN WINNER, AND COMSITE DEMERSING LOE IN WINNER, AND COMSITE ENRIFERING LOE IN STRONG MITH. HE REUSE, ALTERATION OF THE CONTIDATS HERBIN.

SITE NAME: NM4 QUEMAZON

 $280~\mathrm{N}$ MESA RD LOS ALAMOS, NM 87544 ADDRESS:

SITE TYPE: WATER TANK

RF DATA SHEET & COAX ANTENNA DIAGRAM SHEET TITLE:

CS SHEET NUMBER:

