THIRD AMENDMENT TO LEASE AGREEMENT

THIS THIRD AMENDMENT TO LEASE AGREEMENT ("Third Amendment") is made this _____ day of _____, 20___, by and between City of Milwaukee, a Wisconsin municipal corporation ("Lessor") and Cellco Partnership d/b/a Verizon Wireless, with its principal offices located at One Verizon Way, Mailstop 4AW100, Basking Ridge, New Jersey 07920 ("Lessee").

Whereas, Lessor and Lessee previously entered into that certain Lease Agreement dated June 6, 2001, as amended by that certain Amendment to Lease Agreement dated December 6, 2013 and by that certain Second Amendment to Lease Agreement dated ______ (collectively, the "Agreement") which provides for the location, installation, and operation of Lessee's communications equipment within the Leased Space on real property owned by Lessor located at 8841 W. Lisbon Avenue, City of Milwaukee, County of Milwaukee, Wisconsin ("Property"); and

Whereas, Lessee is the successor in interest to Verizon Wireless Personal Communications LP d/b/a Verizon Wireless; and

Whereas, Lessee wishes to reconfigure its equipment installation on the Leased Premises; and

Whereas, Lessor agrees that Lessee shall be entitled to modify its equipment at the Leased Space; and

Whereas, Lessor and Lessee wish to amend the Lease in order to address the above item and reach new agreements with respect to the same.

NOW THEREFORE, in consideration of the promises hereinafter made and other good and valuable consideration, the receipt of which is hereby acknowledged, Lessor and Lessee agree as follows:

- <u>Revised Equipment Installation and Addition of Exhibit B-3 to Lease.</u> Lessee shall be allowed to make the equipment additions or removals necessary to configure Lessee's equipment as shown on Exhibit B-3, attached hereto. Exhibit B-2 of the Lease is hereby deleted and replaced with the attached Exhibit B-3, which reflects the modified equipment that Lessee shall be permitted to install, operate, replace, and maintain within the Leased Space. Provided that Lessee has received all necessary permits and approvals from the appropriate governing bodies, Lessee may immediately commence installation of the modifications as depicted on Exhibit B-3. Lessor agrees that the installation plan in the attached Exhibit B-3 depicting the location and manned of Lessee's equipment installation is acceptable.
- 2. All defied terms referenced in this Third Amendment shall have the meaning as stated and defined in the Agreement.

3. Other than as specifically amended herein, all other terms and conditions of the Lease shall remain in full force and effect. Where there is conflict between the terms of the Lease and this Fifth Amendment, the terms of this Fifth Amendment shall control. Unless otherwise indicated or introduced in this Fifth Amendment, all defined terms referenced in the Fifth Amendment shall have the same meaning as those found in the Lease.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have executed in duplicate this Third Amendment on the day and year first written above.

LESSEE:

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

Name:	
Title:	
Date:	

LESSOR:

CITY OF MILWAUKEE

By: _____Cavalier Johnson, Mayor

By: ______ James Owczarski, City Clerk

COUNTERSIGNED

By: _____

Bill Christianson, City Comptroller

Date:

Signatures of Cavalier Johnson, Mayor; and James R. Owczarski, City Clerk; and Bill Christianson, Comptroller authenticated this _____ day of _____, 2025.

> Jordan M. Schettle, Assistant City Attorney State Bar No. 1104571

Approved as to form and execution

This _____ day of _____, 2025.

Jordan M. Schettle Assistant City Attorney, State Bar No. 1104571

EXHIBIT B-3

(Description of revised Lessee's Equipment)

MDG LOCATION # / LOCATION COE 5000166634 / 112368 FUZE PROJECT NUMBER 17292961	C PAR	ELLCO TNERSHIP VERIZON WIRELESS	SITE NAME 88TH & LISBON MFD SITE ADDRESS 8814 W LISBON AVE MILWAUKEE, WI 53222	CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
	MODIFIC	ACCESS HOME CATION PROJECT		oncordia 361 RANDY RD, UNIT 101 CAROL STREAM, IL 60188
SCOPE OF WORK INSTALLATION OF (4) NEW CBNG ANTENNAS W/INTEGRATED RADIOS INSTALLATION OF (4) NEW BREAKERS FOR NEW ANTENNAS INSTALLATION OF (1) NEW HYBRID CABLE INSTALLATION OF (1) NEW HYBRID CABLE INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS DEVINATION OF (2) NEW RAYCAP UNITS INSTALLATION OF (2) NEW RAYCAP UNITS INSTALLATION OF	SHEET INDEX NO. SHEET DESCRIPTION T.1 TITLE SHEET SP-1 GENERAL NOTES SP-2 LEGEND A-0 OVERALL SITE PLAN A-1 EQUIPMENT ROOM LAYOUT A-2 SITE ELEVATION A-3 RFDS A-3A RFDS DIAGRAMS A-3B EXISTING & PROPOSED EQUIPMENT CONFIGURATION DETAIL A-4 NEW EQUIPMENT MOUNTING DETAILS A-4A NEW EQUIPMENT SPECIFICATIONS G-1 GROUNDING DETAILS PL-1 SITE PHOTO LOG ANTENNA MOUNT ANALYSIS REPORT (BY OTHERS)	REGIONAL MAP	APPLICABLE CODES CODES: ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING: I. INTERNATIONAL BUILDING CODE (IBC 2015) I. INTERNATIONAL FIRE CODE (IFC 2015) I. INTERNATIONAL FIRE CODE (IFC 2015) I. INTERNATIONAL FIRE CODE (IFGC 2015) I. INTERNATIONAL ENERGY CONSERVATION CODE 2015 I. INTERNATIONAL ENERGY CONSTRUCTION (AISC) II. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G I. TIA 607 I. 2009 NFPA101 LIFE SAFETY CODE I. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 I. EEE C2 NATIONAL ELECTRIC SAFETY CODE I. CITY/COUNTY ORDINANCES I. CITY/COUNTY ORDINANCES I. STATE BUILDING CODE I. CITY/COUNTY ORDINANCES I. STATE BUILDING CODE I. CITY/COUNTY ORDINANCES I. STATE BUILDING CODE I. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS AT THE PROJECT SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE	MAIN: (847) 708-7500 PROFESSIONAL DESIGN FIRM CERTIFICATE OF AUTHORIZATION # 3323-1 CHECKED BY: RH CHECKED BY: GMS ISSUED FOR: FINAL CDS NO. REVISION/ISSUE DATE INITIAL A FINAL CDS 12/13/24 SHK/PH
 SLIGHT RIGHT TO MERGE ONTO I-90 E TOWARD CHICAGO, 0.3 MI MERGE ONTO I-90 E, 7.1 MI TAKE EXIT 77B FOR I-294 TOLL N TOWARD WISCONSIN, 0.2 MI MERGE ONTO I-294 N, 12.8 MI CONTINUE ONTO I-94 W, 19.4 MI CONTINUE STRAIGHT TO STAY ON I-94 W, 36.6 MI KEEP LEFT TO STAY ON I-94 W, 2.6 MI CONTINUE ONTO I-43 N, 4.2 MI TAKE THE EXIT ONTO I-94 W TOWARD MADISON, 2.6 MI TAKE THE EXIT ONTO I-94 W TOWARD MADISON, 2.6 MI TAKE THE EXIT ONTO I-94 W TOWARD MADISON, 2.6 MI TAKE THE EXIT S08C FOR ROUTE 175 N, 0.2 MI MERGE ONTO WI-175, 1.7 MI USE THE LEFT 2 LANES TO TURN LEFT ONTO W LISBON AVE, 0.8 MI CONTINUE STRAIGHT TO STAY ON W LISBON AVE, 2.3 MI 	Call DIGGER before you dig. 811 OR (800) 242-8511 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS AT THE PROJECT SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. GC SHALL CONTACT THE A&E FIRM PRIOR TO BID WALK AND CONSTRUCTION START TO CONFIRM THAT DRAWINGS ARE THE MOST RECENT SET. SITE INFORMATION LATITUDE: N 43°05' 00.33" / 43.083425 (NAD 83) LONGITUDE: W 88°01' 21.30" / -88.022583 (NAD 83) GROUND ELEV: 754.6' AMSL (NAVD 88) SITE TYPE: MONOPOLE JURISDICTION: CITY OF MILWAUKEE COUNTY: MILWAUKEE	Applicants Cellco Big adva verzes adva adva dva verzes adva adva Applicants Cellco adva Applicants Cellco Big adva verzes adva concordia wireless 1701 GOLF RD, TOWER 2, SUITE 400 Big concordia wireless ROJECT EDWARD RIOS Engineerning contacts contacts PROJECT EDWARD RIOS Engineerning prone: (847) 774-1 TOWER CITY OF MILWAUKEE SITE Phone: (847) 774-1 TOWER CITY OF MILWAUKEE SITE Encineerning Phone: (630) 550-0 TOWER CITY OF MILWAUKEE SITE Encineerning Phone: (630) 550-0 OWNER: FIRE DEPARTMENT CONTACT: Encineerning Phone: (630) 550-0 TOWER CITY OF MILWAUKEE SITE Encineerning Phone: (630) 550-0 OWNER: FIRE DEPARTMENT CONTACT: Encineerning Phone: (630) 550-0	RESPONSIBLE FOR SAME. FOR SITES WHERE A CRANE IS NECESSARY, THE CONTRACTOR SHALL CONFIRM AN UNOBSTRUCTED ROUTE FOR THE CRANE FROM PUBLIC ROAD TO TOWER SITE PRIOR TO CONSTRUCTION. NO AERIAL OBSTRUCTIONS UNDER FIFTEEN FEET ABOVE GRADE, INCLUDING AERIAL UTILITY LINES, ARE ALLOWED ALONG SAID CRANE ROUTE. GC SHALL CONTACT THE A&E FIRM PRIOR TO BIDWALK AND CONSTRUCTION START TO CONFIRM THAT DRAWINGS ARE THE MOST RECENT SET. PROFESSIONAL LICENSURE I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF THE GOVERNING LOCAL BUILDING CODE.	FUZE PROJECT #: 17292961 MDG LOCATION CODE: 50001666 88TH & LISBON MFD 8814 W LISBON AVE MILWAUKEE, WI 53222 SHEET TITLE: TITLE SHEET

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GENERAL NOTES

- 1. DO NOT SCALE DRAWINGS
- 2. REPRESENTATIVES OF THE OWNER MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO CONSTRUCTION
- 3. THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE, INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR WATERIALS AS OFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS TRAYS NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS

IT IS THE POSITION OF VERIZON WIRELESS TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS

- VERIZON WIRELESS FURNISHED EQUIPMENT SHALL BE PICKED UP AT THE VERIZON WIRELESS WAREHOUSE, NO LATER THAN 48HRS AFTER BEING NOTIFIED EQUIPMENT IS INSURED, UNCRATED, PROTECTED AND READY TO BE INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOUIPMENT AFTER PICKING IT UP
- 6. ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ALL WORK. MATERIALS. AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL OCDE (NEC), OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (EXCEPT WHERE OTHERWISE NOTED) AND SHALL COMPLY WITH THE REQUIREMENTS OF THE UNDERWRITER'S LABORATIES (UL) AND BEAR THE UL LABEL.
- VERIZON WIRELESS AND ITS ARCHITECT/ENGINEER RESERVE THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH THE EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO THE OWNER OR HIS ARCHITECT/ENGINEER.
- 9. THE CONTRACTOR SHALL SUPPORT, BRACE, AND SECURE THE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY REPONSIBLE FOR THE PROTECTION OF ANY EXISTING STRUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION.
- 10. THE CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED BY THE GOVERNING AUTHORITIES. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE. AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITIONS AT HIS OWN EXPENSE.
- 11. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION
- 12. DURING CONSTRUCTION, THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE UTILITIES OF THE BUILDING/SITE WITHOUT INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY SERVICE OR LITULITY THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM THE BUILDING/PROPERTY OWNER FOR SUCH INTERRUPTION, AT LEAST 72 HOURS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF INCONVENIENCE TO THE BUILDING/PROPERTY OWNER AND ANY SUCH SHUTDOWN TIME SHALL BE COORDINATED WITH TH BUILDING/PROPERTY OWNER
- 13. CHANGE-ORDER REQUESTS MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE. DOCUMENTATION CONCERNING AND AND ALL CHANGE ORDERS WILL BE TREATED AS LEGAL DOCUMENTS AND ARE TO BE FILLED WIT THE OWNER'S PRESENTATIVE FOR FUTURE REFERENCE.
- 14. CONTRACTOR SHALL MINIMIZE THE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. CONTRACTOR SHALL USE EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION.
- 15 CONTRACTOR WILL NOT START CONSTRUCTION LINTIL AFTER THEY RECEIVE THE RE-CON PACKAGE AND HAVE A PRE-CON WALK WITH THE PROJECT MANAGER
- 16. CONTRACTOR SHALL SUBMIT AT THE END OF THE PROJECT A COMPLETE SET OF AS-BUILT DRAWINGS TO VERIZON WIRELESS.

SITE WORK

- 1 WORK SHALL NOT BE STARTED PRIOR TO PERMIT ACQUISITION ANY INFORMATION REQUIRED BY THE PERMITTING AGENCY SHALL BE PROVIDED BY THE CONTRACTOR TO SECURE ALL PERMITS
- 2. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 3. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITIONS PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS AND ISSUED RCHITECT/ENGINEER AT COMPLETION OF PROJECT
- 4 ALL EXISTING UTILITIES FACILITIES CONDITIONS AND THEIR DIMENSIONS SHOWN

ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES

- 5. CONTRACTORS SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACTOR SHALL CALL 811 FOR UTILITY LOCATIONS 48 HOURS PRIOR O START OF CONSTRUCTION
- 6 ALL NEW AND EXISTING LITHITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK
- 7. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
- ALL EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC. SHALL BE PROPERLY LAID BACK AND BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- 9. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF AXIMUM STANDARD PROCTOR DRY DENSITY
- 10 NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY
- 11. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHALL NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
- 12. ANY FILLS PLACED ON EXISTING SLOPED THAT ARE STEEPER THAN 10:1 (H:V) SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- 13. THE GRADES WITHIN A FENCED-IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR COVERING THE AREA WITH 6 MIL VISQUEEN (1-FT OVERLAP AT SEAMS) FOR WEED SUPPRESSION. THEN ACHIEVING FINISH GRADE BY ADDING 6" OF 3/4" CRUSHED STONE - NO FINES.
- 14 CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SO THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE
- 15. ALL TREE AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED.
- 16. GC TO HIRE JULIE & PRIVATE LOCATE SERVICE IN ORDER TO LOCATE AND PROTECT ANY AND ALL SUBSURFACE UTILITIES. DO NOT SCALE OFF THESE PLANS FOR ANY BELOW GRADE UTILITIES
- 17. THESE PLANS MAY NOT CONTAIN OR REVEAL ALL THE SUBSURFACE UTILITIES. GC IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION.
- 18. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION ALL EXISTING ACTIVE SEWER GAS ELECTRIC AND OTHER UTILITIES 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 PROJECT MANAGER, EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATION OR PIER DRILLING NEAR OR AROUND UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL, INCLUDE, BUT IS NOT LIMITED TO:
- A. FALL PROTECTION
- CONFINED SPACE ELECTRICAL SAFETY
- TRENCHING AND EXCAVATION
- 19. REMOVE FROM THE SITE/OWNER'S PROPERTY ALL WASTE MATERIALS. UNUSED EXCAVATED MATERIAL INCLUDING MATERIAL CLASSIFIED AS UNSATISFACTORY CONTAMINATED OR DANGEROUS TRASH AND DEBRIS, AND DISPOSE OF IN A LEGAL MANNER
- 20. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVA
- 21. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK ARE NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH.
- 22. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION AND IMPLEMENT EROSION CONTROL MEASURES, AS REQUIRED DURING CONSTRUCTION
- 23. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND CONSTRUCTION STAKING. CONTRACTOR SHALL ESTABLISH GRADE AND LINE STAKES PRIOR TO CONSTRUCTION.
- 24. CONCORDIA WIRELESS DOES NOT GUARANTEE OR WARRANT THE THE AFOREMENTIONED EASEMENTS ARE SUFFICIENT FOR CONSTRUCTION TRAFFIC. GC SHALL CONSULT WITH A VERIZON WIRELESS REPRESENTATIVE AND LANDI ORD WITH EXACT LOGISTICS TO FACILITATE CONTRACTIBILITY OF THE SITE AND DELIVERY OF CRITICAL MATERIALS SUCH AS THE TOWER. STEEL, CONCRETE AND CRANES TO THE PROPOSED LEASE AREA GC SHALL RESTORE SITE TO ORIGINAL CONDITIONS AND REPLACE ANY AND ALL DISTURBED TREE OR LANDSCAPING
- 25. CONCORDIA WIRELESS IS NOT RESPONSIBLE FOR THE MAINTENANCE AND/OR

OPERATIONAL FEASIBILITY

- 26. SCOPE OF WORK FOR THESE PLANS DOES NOT INVOLVE VALUE ENGINEERING. MAINTAINABILITY OF THE SITE ACCESS OR UTILITIES.
- 27. THE ENGINEER WILL NOT BE RESPONSIBLE OR LIABLE FOR ERRORS OR NEGLIGENT ACTS OF OMISSIONS OF ANY CONTRACTOR. SUBCONTRACTOR. OR ANY OF THE CONTRACTORS' OR SUBCONTRACTORS' EMPLOYEES OR AGENTS OR ANY OTHER PERSONS (EXCLUDING ENGINEER'S OWN EMPLOYEES) AT THE CONSTRUCTION SITE OR OTHERWISE PERFORMING ANY OF THE PROJECT WORK CONTRACTORS SUBCONTRACTORS, AND ENGINEERS WILL BE RESPONSIBLE FOR THEIR OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTION OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE ANY CONTRACTOR OF HIS OR HER OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS.

CONCRETE

- MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS OTHERWISE NOTED.
- CONCRETE FOR ALL FOUNDATIONS: 540 LBS. PER CUBIC YARD OF CONCRETE MINIMUM CEMENT CONTENT FOR ONE INCH MAXIMUM SIZE AGGREGATE, SLUMP RANGE THREE TO FIVE INCHES, TOTAL AIR CONTENT FOUR TO SEVEN PERCENT BY VOLUME, AIR ENTRAINING ADMIXTURE REQUIRED TO CONTROL TOTAL AIR CONTENT. VATER REDUCING ADMIXTURE PERMITTED TO OBTAIN SLUMP OVER THREE INCHES
- 3. ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE.
- REBARS SHALL BE ASTM A-615 DEFORMED TYPE WITH MINIMUM YIELD STRENGTH OF 60,000 PSI (40,000 PSI GRADE MAY BE USED FOR TIES AND STIRRUPS). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- DETAILING SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-315 LATEST EDITION).
- 6. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4". UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN THE FOLLOWING MINIMUM COVER (INCHES) FOR REINFORCEMENT SHALL BE PROVIDED, EXCEPT AS NOTED ON DRAWINGS.
- CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" EXPOSED TO EARTH OR WEATHER, #6 THROUGH #18 2"
- C EXPOSED TO EARTH OR WEATHER #5 AND SMALLER 1-1/2"
- TESTS: CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS THE WORK PROGRESSES, FAILURE TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR FINAL ACCEPTANCE.
- A. FIVE CONCRETE TEST CYLINDERS SHALL BE TAKEN OF THE TOWER PIER FOUNDATION. TWO SHALL BE TESTED AT THREE DAYS, TWO SHALL BE TESTED AT 28 DAYS, THE FIETH CYLINDER SHALL BE KEPT SEPARATELY, IF REQUIRED TO BE USED IN THE FUTURE
- B. ONE ADDITIONAL TEST CYLINDER SHALL BE TAKEN DURING COLD WEATHER AND CURED ON SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
- C. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
- 9. PLACING CONCRETE:
 - A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT, UNLESS INSPECTION I BESS THAT 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT, UNLESS INSPECTION IS WAVED IN EACH CASE. PLACING OF CONCRETE SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER. CONCRETE SHALL NOT BE PLACED UNTIL ALL FRAMEWORK, EMBEDDED PARTS STEEL REINFORCEMENT FOUNDATION SURFACES AND JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE VERIZON WIRELESS REPRESENTATIVE HAVE BEEN PROVIDED AND MADE READY FOR ACCOMPLISHMENT OF THE WORK AS SPECIFIED CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL ITEMS HAVE BEEN APPROVED AND VERIZON WIRELESS HAS PERFORMED A FINAL INSPECTION AND GIVEN APPROVAL TO START PLACEMENT IN WRITING.

B. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301

10. PROTECTION:

- A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY, FINISHED WORK SHALL BE
- B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
- C. ALL CONCRETE SHALL BE WATER CURED BY CONTINUOUS (NOT PERIODIC) FIN MIST SPRACING OR SPRINKLING ALL EXPOSED SURFACES. WATER SHALL BE CLEAN AND FREE FROM ACID, ALKALI, SALTS OIL SEDIMENT, AND ORGANIC MATTER. SUCCESSFUL CURING SHALL BE OBTAINED BY USE OF AN AMPLE WATER SUPPLY UNDER PRESSURE IN PIPES, WITH ALL NECESSARY APPLIANCES OF SPRINKLES AND SPRAYING DEVICES.
- D. 13.THE CONCRETE CONTRACTOR SHALL PREPARE, DOCUMENT, AND SUBMIT TO THE ARCHITECT FOR REVIEW A PROGRAM FOR PROVIDING COLD WEATHER

STRUCTURAL STEEL

- SHALL BE AS FOLLOWS:
- BOLTS ASTM A325 BOLTS, BEARING TYPE

- A JOINT ARE IN FIRM CONTACT BY EITHER:
- A FEW IMPACTS OF AN IMPACT WRENCH

6. PROTECTION

ANTENNA INSTALLATION

- AND PROPERTY
- SPECIFICATIONS
- SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- UNLESS OTHERWISE STATED.
- 6. ANTENNA AND COAXIAL CABLE GROUNDING:
- #221213 OR EQUAL.
- OF COAXIAL CABLE NOT WITHIN BENDS

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B. THE FULL EFFORT OF A PERSON USING A SPUD WRENCH 5. WELDING:

- REVIEW IE REQUESTED
- SPECIFICATIONS

PROTECTION INCLUDING METHODS OF WEATHER ENCLOSURE, HEATING METHODS, AND CONTINUOUS TEMPERATURE MONITORING SYSTEMS.

DETAIL FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, AWS D1.1 AND THE BASIC BUILDING CODE. STRUCTURAL STEEL

A. ASTM A36, GRADE 36; ROLLED STEEL, RODS, PLATES, U-BOLTS AND ANCHOR

C. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE

ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER AND VERIZON WIRELESS PROJECT MANAGER IN WRITING

4. TIGHTEN HIGH STRENGTH BOLTS TO A SNUG, TIGHT CONDITION WHERE ALL PLIES IN

A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDER. CERTIFICATION DOCUMENTS SHALL BE MADE AVAILABLE FOR ENGINEER'S AND/OR OWNER'S

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

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.

1. ANTENNAS AND COAXIAL CABLES ARE FURNISHED BY VERIZON WIRELESS UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL

2. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON WIRELESS

3. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

4 CONTRACTOR SHALL PROVIDE FOUR SETS OF SWEEP TESTS LISING AMRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER, SUBMIT FREQUENCY DOMAIN REFLECTOMETER (FDR) TEST RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RES "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEME DATE 10/05/1993. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND

5. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER REQUIREMENTS. ERMINATE ALL COAXIAL CABLE THREE FEET IN EXCESS OF ENTRY PORT LOCATION

A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER-SEALED WITH RFS CONNECTOR/SPLICE WEATHERPROOFING KIT

B. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS



SP-1

MAP SYMBOLS

CATCH BASIN

INLET

MANHOLE

FIRE HYDRANT

VALVE BOX

 \boxtimes

LIGHT POLE

TRAFFIC LIGHT

UTILITY POLE

PEDESTAL

BUSH/SHRUB

TREE

SIGN

.

____ OE ____ OE ____ OVERHEAD ELECTRIC _____ OF _____ OF _____ OVERHEAD FIBER UNDERGROUND ELECTRIC ____ UE ____ UE ____ UNDERGROUND FIBER STORM SEWER SANITARY SEWER \sim TREE LINE

— они — они —

MAP LINES (CONT.)

OVERHEAD WIRE

R.O.W. LINE LOT LINE ____ CENTER LINE —X— CHAIN-LINK FENCE $- \Box$ WROUGHT IRON FENCE WOOD FENCE GUARD RAIL _____

TRAIN TRACKS

HATCHES

++++++-

CONCRETE BRICK EARTH Ψ Ψ Ψ GRASS Ψ Ψ GRATE GRAVEL

MISC.

 \triangle REVISION \mathbf{x} GRID REFERENCE X X-X

DETAIL REFERENCE

X-X ELEVATION REFERENCE

ABBREVIATIONS

ABV. ABOVE ADDITIONAL ADD'L A.F.F. ABOVE FINISHED FLOOR A.F.G. ABOVE FINISHED GRADE ABOVE GRADE LEVEL AGL ALUM. ALUMINUM ALTERNATE ALT. ANT. ANTENNA APPRX. APPROXIMATE(LY) ARCH. ARCHITECT(URAL) AWG. AMERICAN WIRE GAUGE BITUMINOUS BIT BLDG. BUILDING BLOCK BLK. BLKG. BLOCKING BM. BEAM BARE TINNED COPPER WIRE BTCW. B.O.F. BOTTOM OF FOOTING BACK-UP CABINET B/U CAB CABINET CANT. CANTILEVER(ED) CAST IN PLACE C.I.P. CLG. CEILING CLEAR CLR. COL COLUMN CONC. CONCRETE CONNECTION(OR) CONN. CONST CONSTRUCTION CONT CONTINUOUS C.L. CENTERLINE DECIBEL dB DBL. DOUBLE DEPT. DEPARTMENT DIAMETER DIA. DIAG. DIAGONAL DIM. DIMENSION DWG. DRAWING(S) DWL. DOWEL(S) EA. EACH EC ELECTRICAL CONTRACTOR ELEVATION EL. ELEC. ELECTRICAL ELEV. ELEVATOR ELECTRICAL METALLIC TUBING EMT. ENG. ENGINEER EQ. EQUAL EXP. EXPANSION EXIST.(E) EXISTING EXT. EXTERIOR FAB. FABRICATION(OR) E.E. FINISH FLOOR F.G. FINISH GRADE FINISH(ED) FIN. FLR. FLOOR FOUNDATION FDN. FACE OF CONCRETE F.O.C. F.O.M. FACE OF MASONRY FACE OF STUD F.O.S. F.O.W. FACE OF WALL FINISH SURFACE F.S. FOOT(FEET) FT.(') FTG. FOOTING GROWTH (CABINET) G. GA. GAUGE GENERAL CONTRACTOR GC GALVANIZE(D) GI. GIS GEOGRAPHIC INFORMATION SYSTEM G.F.I. GROUND FAULT CIRCUIT INTERRUPTER GPS GLOBAL POSITIONING SYSTEM GND. GROUND HANGER HGR. HT. HEIGHT

ABBREVI	ATIONS
---------	--------

ICGB.	ISOLATED COPPE
IN.(")	INCH(ES)
INT.	INTERIOR
LB.(#)	POUND(S)
L.F.	LINEAR FEET (FO
L.	LONG(ITUDINAL)
MAS.	MASONRY
MAX.	MAXIMUM
MDCMC	METRICOM DESIG
	MANAGEMENT &
MECH.	MECHANICAL
MFR.	MANUFACTURER
MHz	MEGAHERTZ
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MMP	MEET-ME POINT
MTL.	METAL
(N)	NEW
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
0.C.	ON CENTER
OPNG.	OPENING
PCC	PORTLAND CEME
PCS	PERSONAL COM
PLY.	PLYWOOD
PM	PROJECT MANAG
PRC	PRIMARY RADIO
P.S.F.	POUNDS PER SQ
P.S.I.	POUNDS PER SQ
P.T.	PRESSURE TREA
PWR.	POWER (CABINET
QTY.	QUANTITY
RAD.(R)	RADIUS
RFDS	RADIO FREQUEN
RF	RADIO FREQUEN
RRU	REMOTE RADIO L
REF.	REFERENCE
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
RGS.	RIGID GALVANIZE
R.O.W. SCH.	RIGHT-OF-WAY SCHEDULE
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION(S
SQ.	SQUARE
S.S.	STAINLESS STEE
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDAT
T.O.P.	TOP OF PLATE (P
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.G.	UNDER GROUND
U.L.	UNDERWRITERS
U.N.O.	UNLESS NOTED C
VAC	VOLTS ALTERNAT
V.I.F.	VERIFY IN FIELD
VZW	VERIZON WIRELE
W	WIDE(WIDTH)
W/	WITH
WAP.	WIRED ACCESSE
WCS	WIRELESS COMM
WCS WT.	WEIGHT
C R	
Æ	PLATE

PER GROUND BUS

OOT)

IGNATED CONSTRUCTION CONTRACTING

ENT CONCRETE IMUNICATION SERVICES

GER CABINET QUARE FOOT QUARE INCH ATED ET)

NCY DATA SHEET NCY UNIT

IT(ING)

ED STEEL

EL

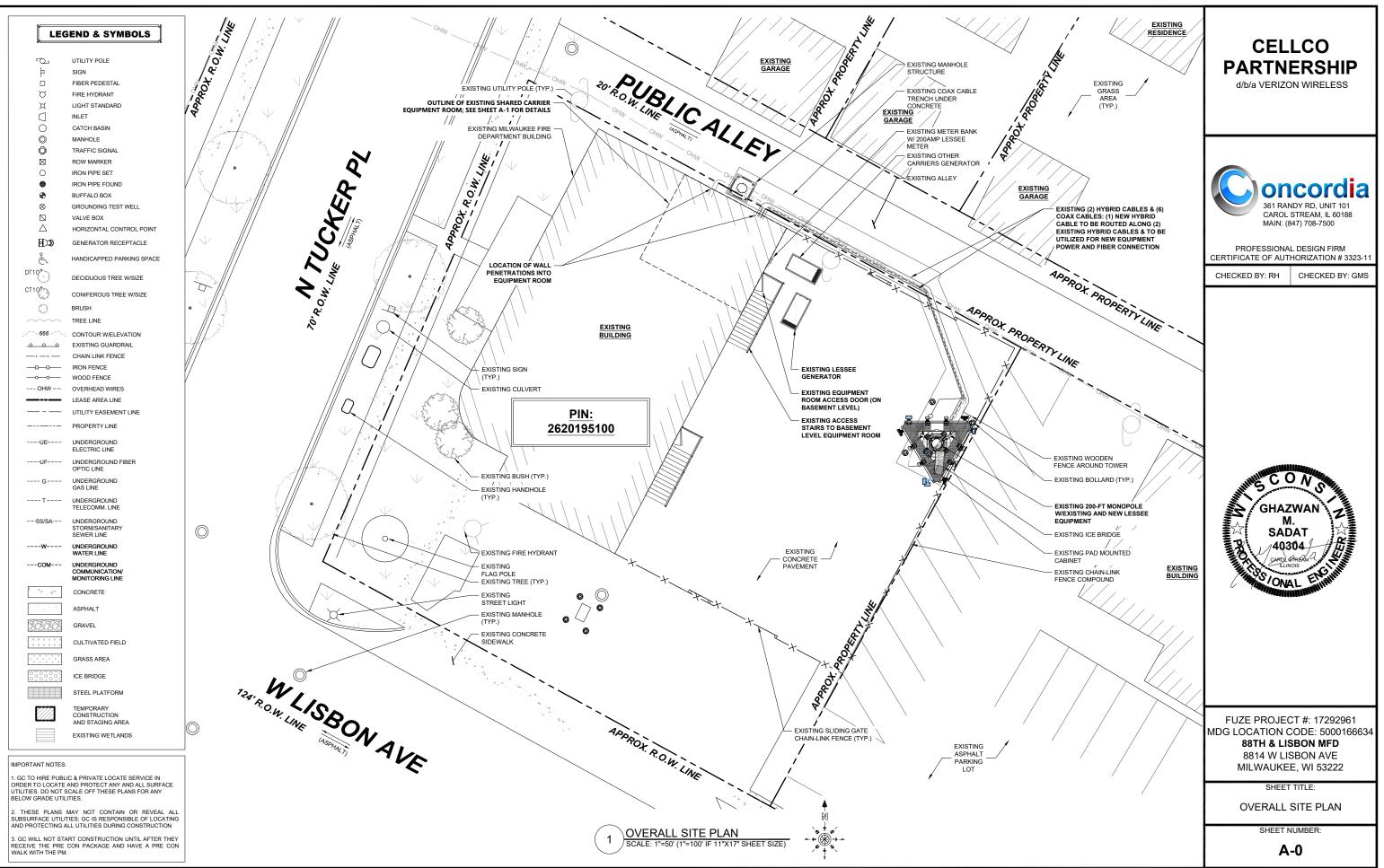
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ATION PARAPET)

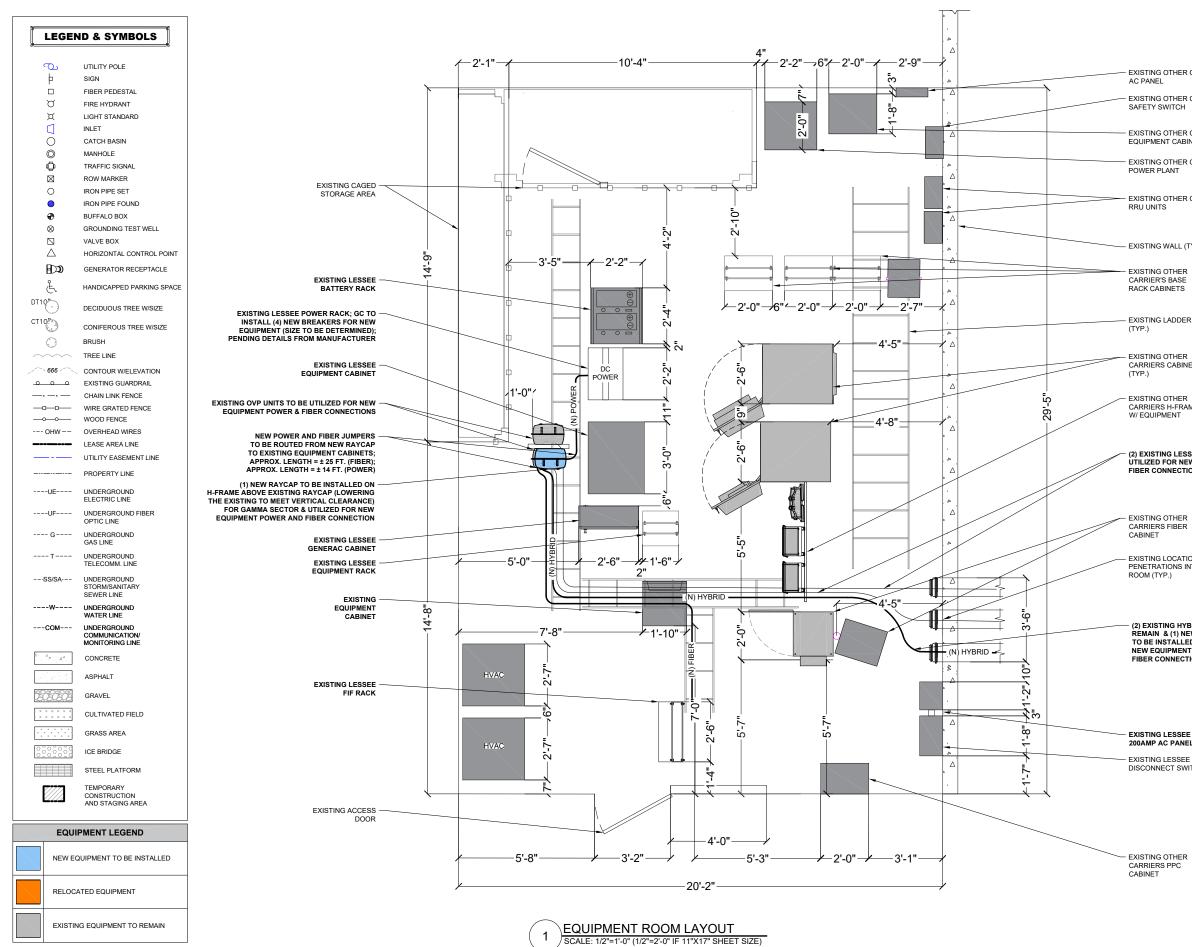
SLABORATORY OTHERWISE ATING CURRENT ESS

ED POINT MUNICATION SERVICE





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EXISTING OTHER CARRIER'S

- EXISTING OTHER CARRIER'S SAFETY SWITCH

EXISTING OTHER CARRIER'S EQUIPMENT CABINET

- EXISTING OTHER CARRIER'S POWER PLANT

EXISTING OTHER CARRIER'S

- EXISTING WALL (TYP.)

- EXISTING OTHER CARRIER'S BASE RACK CABINETS

- EXISTING LADDER

- EXISTING OTHER CARRIERS CABINET

EXISTING OTHER CARRIERS H-FRAME W/ EQUIPMENT

(2) EXISTING LESSEE HYBRID CABLES TO BE UTILIZED FOR NEW EQUIPMENT POWER AND FIBER CONNECTION

- EXISTING OTHER CARRIERS FIBER

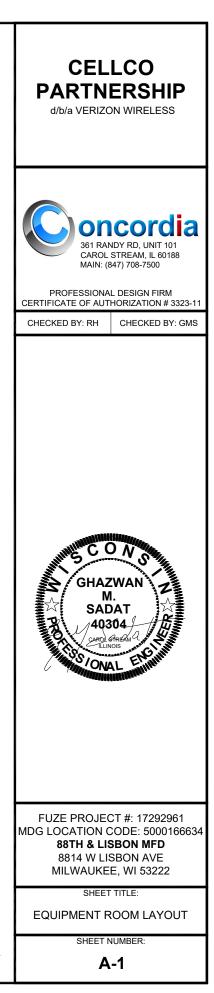
EXISTING LOCATION OF WALL PENETRATIONS INTO EQUIPMENT

(2) EXISTING HYBRID CABLES TO **REMAIN & (1) NEW HYBRID CABLE** TO BE INSTALLED & UTILIZED FOR NEW EQUIPMENT POWER AND FIBER CONNECTION

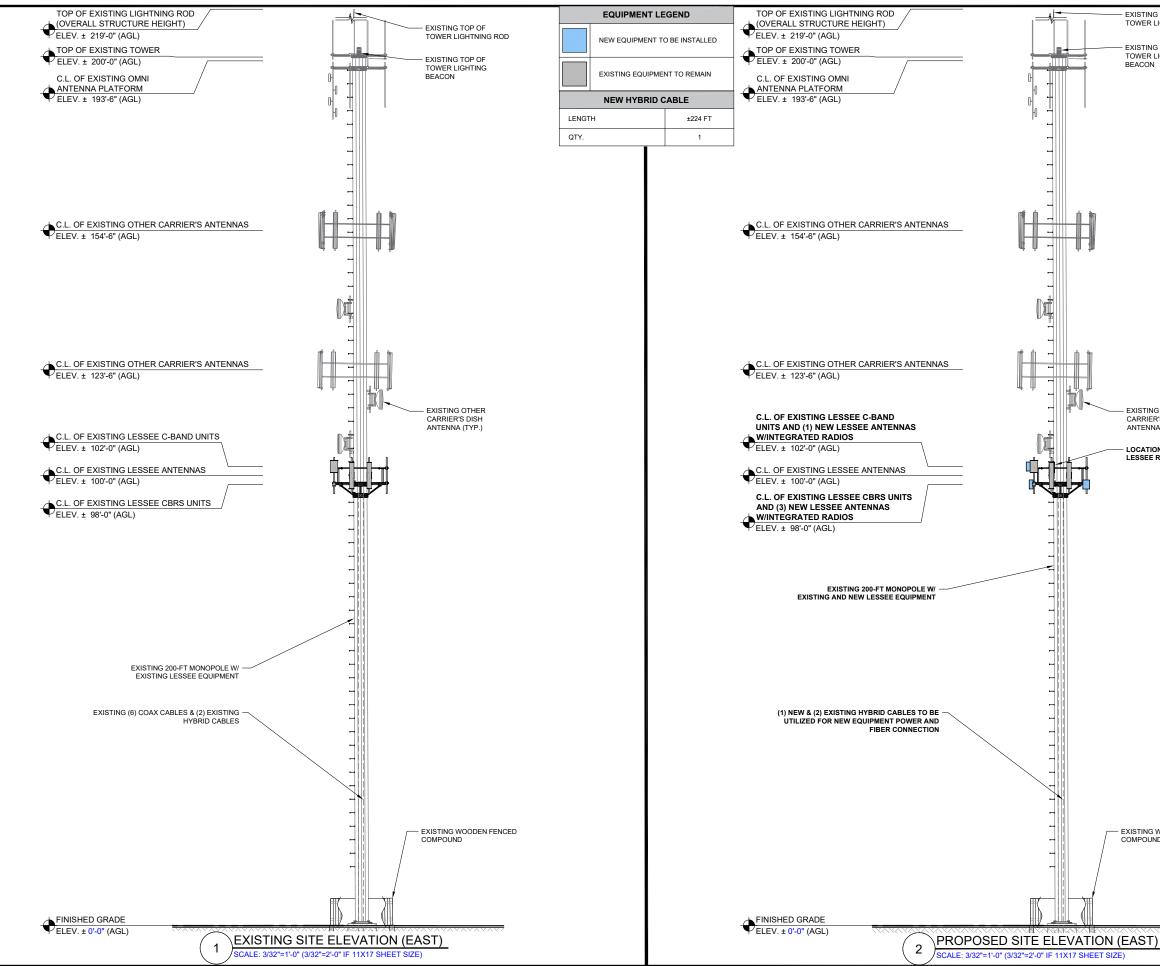
EXISTING LESSEE 200AMP AC PANEL

DISCONNECT SWITCH

- EXISTING OTHER CARRIERS PPC



- 4 **B** -



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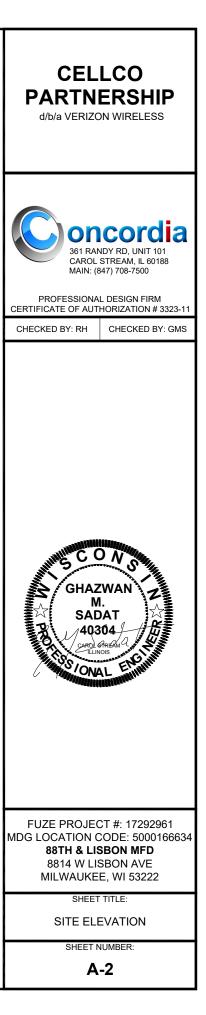
EXISTING TOP OF TOWER LIGHTNING ROD

EXISTING TOP OF TOWER LIGHTING BEACON

EXISTING OTHER CARRIER'S DISH ANTENNA (TYP.)

LOCATION OF NEW

EXISTING WOODEN FENCED COMPOUND

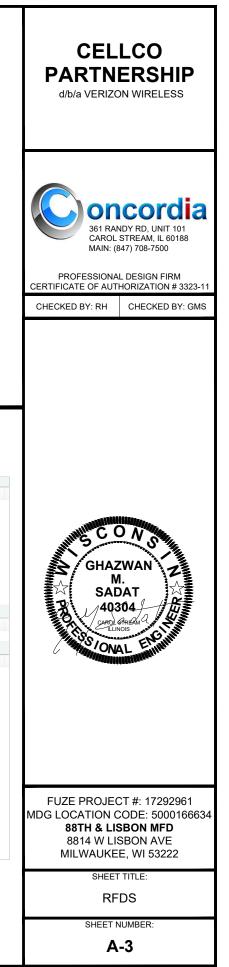


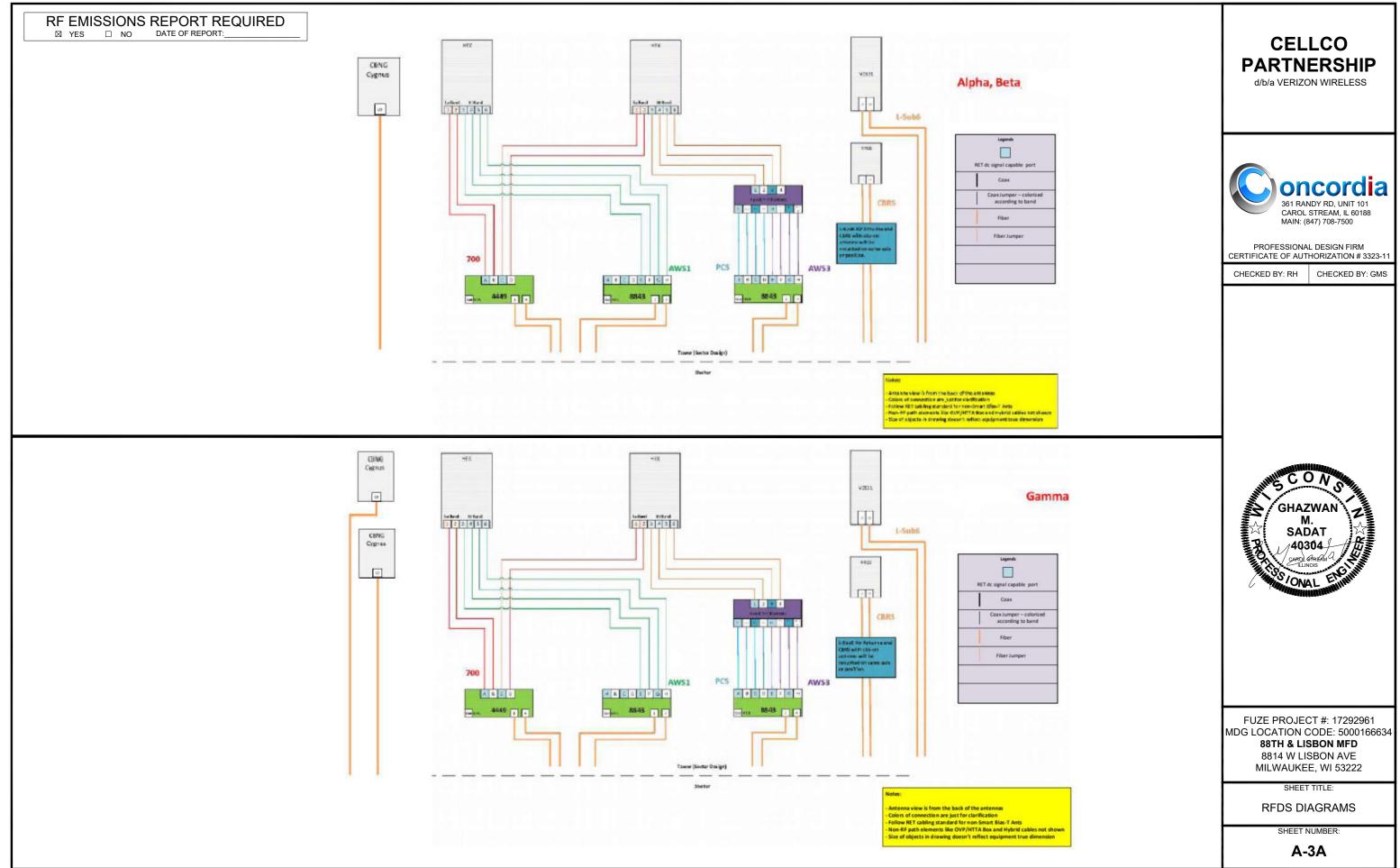
RF EMISSIONS REPORT REQUIRE ⋈ YES NO DATE OF REPORT:	U Verizo	DS										
	MIDWEST > Upper Midwest > Illinois/Wiscon	sin > Wisconsin > <mark>8</mark>	8TH & LISBON	MFD								
	RF Submit by: Nourse, Matthew - matthew.nourse@v	verizonwireless.com	m - 11/22/2024	, 9:40:49 A	λM							
	EE Submit by: Goodwin, Anthony - anthony.goodw	win@verizon.com -	11/26/2024, 6:	:06:54 AM								
	Project Details	Location Infor	mation									
	FUZE Project ID: 17292961			Site ID:	699072							
	Project Name: PMP Donor		E-No	deB ID:	209077,	2097397,	0209077,5	509177				
	Project Alt Name: MIL 88THANDLISBON MFDAAH Donor		MDG Loca	ation ID:	500016	6634						
	Project Type: Modification			PSLC:	112368							
	Modification Type: RF		Switch	h Name:	New Ber	rlin						
	Designed Sector Carrier 4G: 30		Tower	Owner:								
	Designed Sector Carrier : 32		Tow	er Type:	Monopo	le						
	Additional Sector Carrier 4G: N/A		Sit	te Type:	MACRO							
	Additional Sector Carrier : N/A		Site Su	b Type:	TRADIT	IONAL						
	FP Solution Type & Tech Type: MODIFICATION; Verizon Select Internet Donor		Street A	ddress:	8814 W	Lisbon Av	e					
	Carrier Aggregation: false			City:	Milwauk	ee						
	MPT Id:			State:	WI							
	eCIP-0: false		Zi	p Code:	53222							
	Suffix:			County:	Milwauk	ee						
			L	atitude:	43.0834	25 / 43° 5	5' 0.33" N					
			Loi	oditude:	99 022	583 / 88°	11 21 2029					
	RFDS Project Scope: All Access Home - Donor Design: Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha	AZ 0, 1 on Beta							180,			
		AZ 0, 1 on Beta							180,			
	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270.	AZ 0, 1 on Beta								ent Summary	y	
	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270.	Added	a AZ 90, and	2 stacke	d on Ga	mma with	2' vertica	l separation AZ	Equipme		- 1	
	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270.		a AZ 90, and	2 stacke		mma with	2' vertica	Separation AZ	Equipme Atoll Mode		Item Description	Cable Length Ca
	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270.	Added	a AZ 90, and	2 stacke	d on Ga	mma with	2' vertica	l separation AZ	Equipme Atoll Mode		- 1	Cable Length Ca
	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270.	Added	AZ 90, and	2 stacke	d on Ga	mma with	2' vertica	CBAND Make CAMBRIDG BROADBAN	Equipme Atoll Mode D VectaStar	lel	Item Description VectaStar NR gNodeB High	Cable Length Ca
1900 AWS AWS3 39 GHz CERS CBAND Make A toli Model 1	Mount on (3) previous CDMA antenna slots/poles. 1 on Alpha 270. Use power and fiber lines from existing hybrid cable.	Added Equipment Type RRU	AZ 90, and Location 7 Tower	2 stacke	d on Ga	mma with	2' vertica	CBAND Make CAMBRIDG BROADBAN NETWORKS	Equipme Atoll Mode E VectaStar LTD VectaStar E RVZDC-32 E SFP-10GE	lel ar 39GHz gNB	Item Description VectaStar NR gNodeB High Band 2X2 2BF Tower Top and Base power	Cable Length Ca

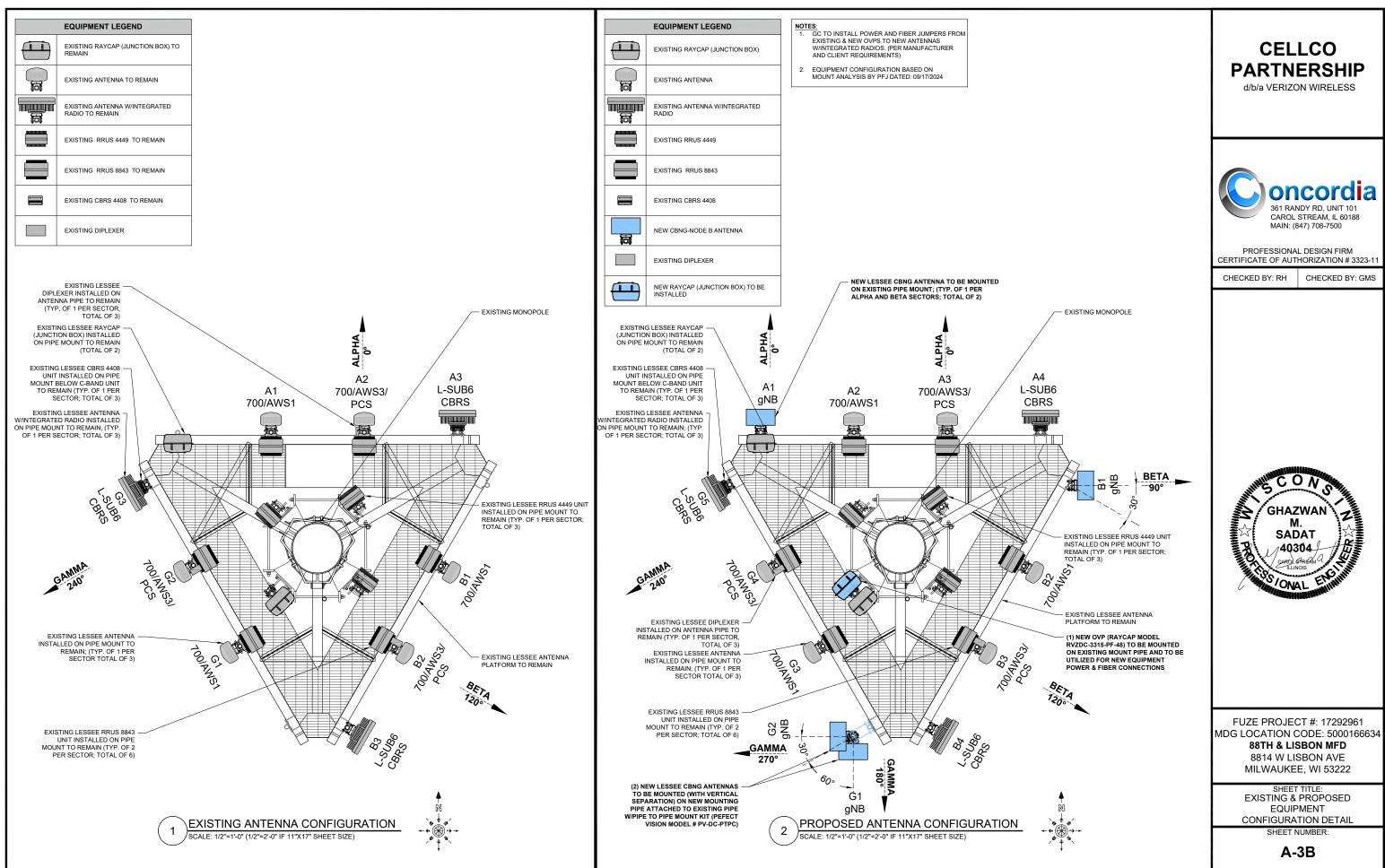
700	1900	AWS	AWS3	39 GHz	CBRS	CBAND	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID
							CBNG	39GHz VectaStar NR gNB		102	102.7	270(4)	PHYSICAL	1	
							CBNG	39GHz VectaStar NR gNB		98	98.7	0(1) 90(2) 180(3)	PHYSICAL	3	
Remo	ved														
700	1900	AWS	AWS3	39 GHz	CBRS	CBAND	Make	Atoll Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID
									No data available.						
Retain	red														
	1900	AWS	AW\$3	39 GHz	CBRS	CBAND	Make	Atoli Model	Item Description	Centerline	Tip Height	Azimuth	Inst. Type	Quantity	Item ID
Retain 700		AWS	AW\$3	39 GHz	CBRS	CBAND	Make Ericsson	Atoli Model AIR6449	Item Description	Centerline 102	Tip Height 103.3	Azimuth 0(1) 120(2) 240(3)	Inst. Type PHYSICAL		Item ID
		AWS	AW\$3	39 GHz	CBRS	CBAND			Item Description ANTENNA 6524, 4T4R MICRO DLRECTIONAL 340			0(1) 120(2)		3	Item ID 1900055217

Added: 4 Removed: 0 Retained: 12

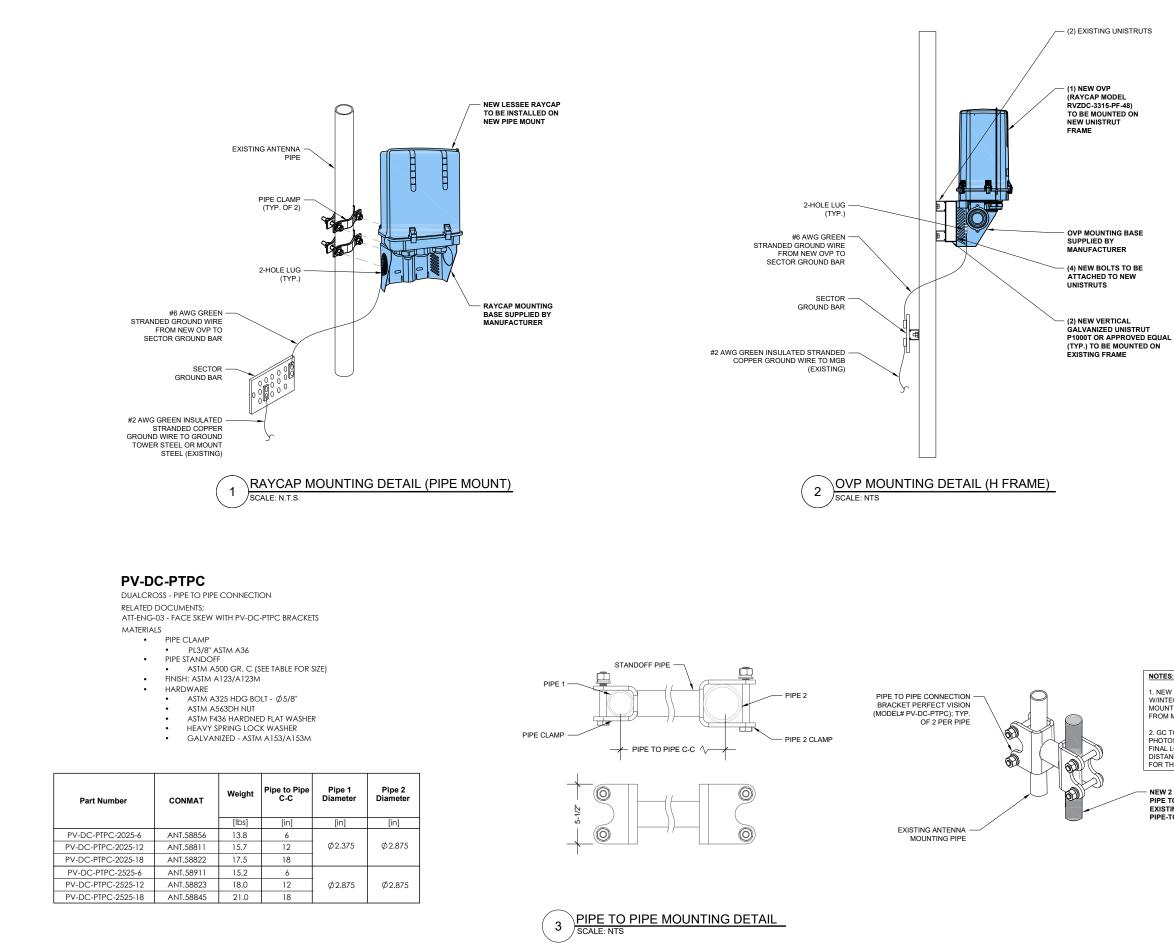
Added	1.	1.57525	-	Leves													
Equipment Type RRU	Location	700	1900	AWS	AWS3	39 GHz	CBRS	CBAND	Make CAMBRIDGE BROADBAND NETWORKS LTD	Atoll Model VectaStar 39GHz gNB	Item Description VectaStar NR gNodeB High Band 2X2 2BF	Cable Length	Cable Size	PHYSICAL		Item ID 1900486091	
OVP Box	Tower								RAYCAP INC	RVZDC-3315-PF-48	Tower Top and Base power protection fibe			PHYSICAL	2	1900422667	
Other	Tower								CAMBRIDGE BROADBAND NETWORKS LTD	SFP-10GE-10GBASE-LR	10 Gigabit Ethernet SFP+ connector			PHYSICAL	8	1900486261	
Hybrid Cable	Tower								COMMSCOPE	HFT1206-24SV4-150G	HFT 6x12 6 AWG SM FIBER w/GLAND 150F			PHYSICAL	1	1900438286	
Removed																	
Equipment Type	Location	700	1900	AWS	AWS3	39 GHz	CBRS	CBAND	Make	Atoll Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID	
Coaxial Cables	Tower									15/8				PHYSICAL	6		
Retained																	
Equipment Type	Location	700	1900	AWS	AWS3	39 GHz	CBRS	CBAND	Make	Atoll Model	Item Description	Cable Length	Cable Size	Install Type	Quantity	Item ID	
RRU	Tower								ERICSSON INC	AIR6449	AIR 6449 B77D; RADIO UNIT			PHYSICAL	0	1900068484	
RRU	Tower	LTE							ERICSSON INC	4449	DUAL BAND LOW BAND 4449 (B13 + B5) REMOT			PHYSICAL	3	1900068756	
RRU	Tower		LTE	LTE					ERICSSON INC	8843	DUAL BAND HIGH BAND 8843 (B66A + B2) RRU			PHYSICAL	6	1900068904	
RRU	Tower						LTE		ERICSSON INC	4408 B48 DC	RADIO 4408 B48 HW 1			PHYSICAL	3	1900068745	
Hybrid Cable	Tower								N/A	6x12				PHYSICAL	1		
Coaxial Cables	Tower								COMMSCOPE	15/8"				PHYSICAL	6		
Hybrid Cable	Tower								Hybrid Cables	12x24				PHYSICAL			
OVP Box	Tower								raycap	3315				PHYSICAL			
OVP Box	Shelter								raycap	3315				PHYSICAL			
OVP Box	Shelter								Raycap	6627				PHYSICAL			
OVP Box	Tower								Raycap	6627				PHYSICAL	1		
Diplexer	Tower								COMMSCOPE TECHNOLOGIES LLC	CDX1923Q-DS-43	4 PACK PCS/AWS DIPLEXER (QUAD SOLUTION O			PHYSICAL	3	1900084474	







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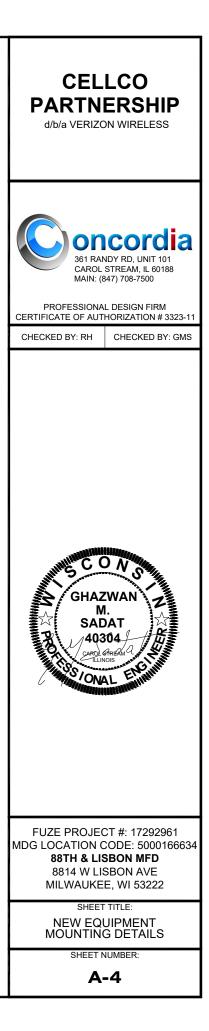
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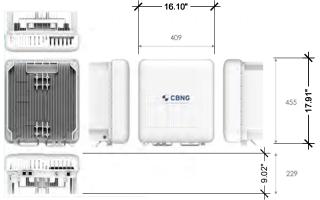
1. NEW ANTENNA 1. NEW ANTENNA W/INTEGRATED RADIO PENDING MOUNTING BRACKET DETAILS FROM MANUFACTURER.

2. GC TO DOCUMENT VIA PHOTOS FOR THE PMI THE FINAL LOCATION AND THE DISTANCE BETWEEN THE PIPES FOR THE FINAL INSTALLATION

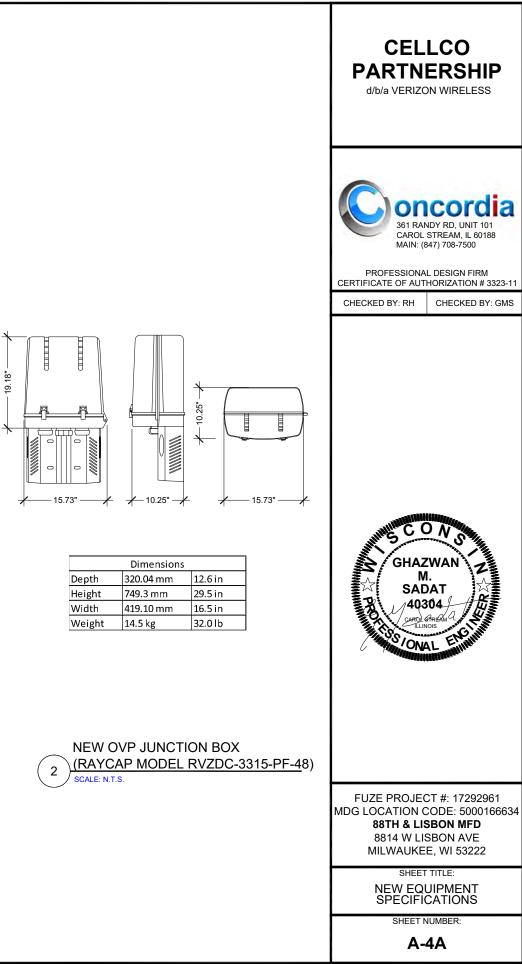
- NEW 2 7/8" O.D. X 96" MOUNTING PIPE TO BE INSTALLED ON EXISTING ANTENNA PIPE USING PIPE-TO-PIPE CLAMP SET



CBNG CAMBRIDGE BROADBAND NETWORKS GROUP 39GHz VectaStar NR gNB Product Specification



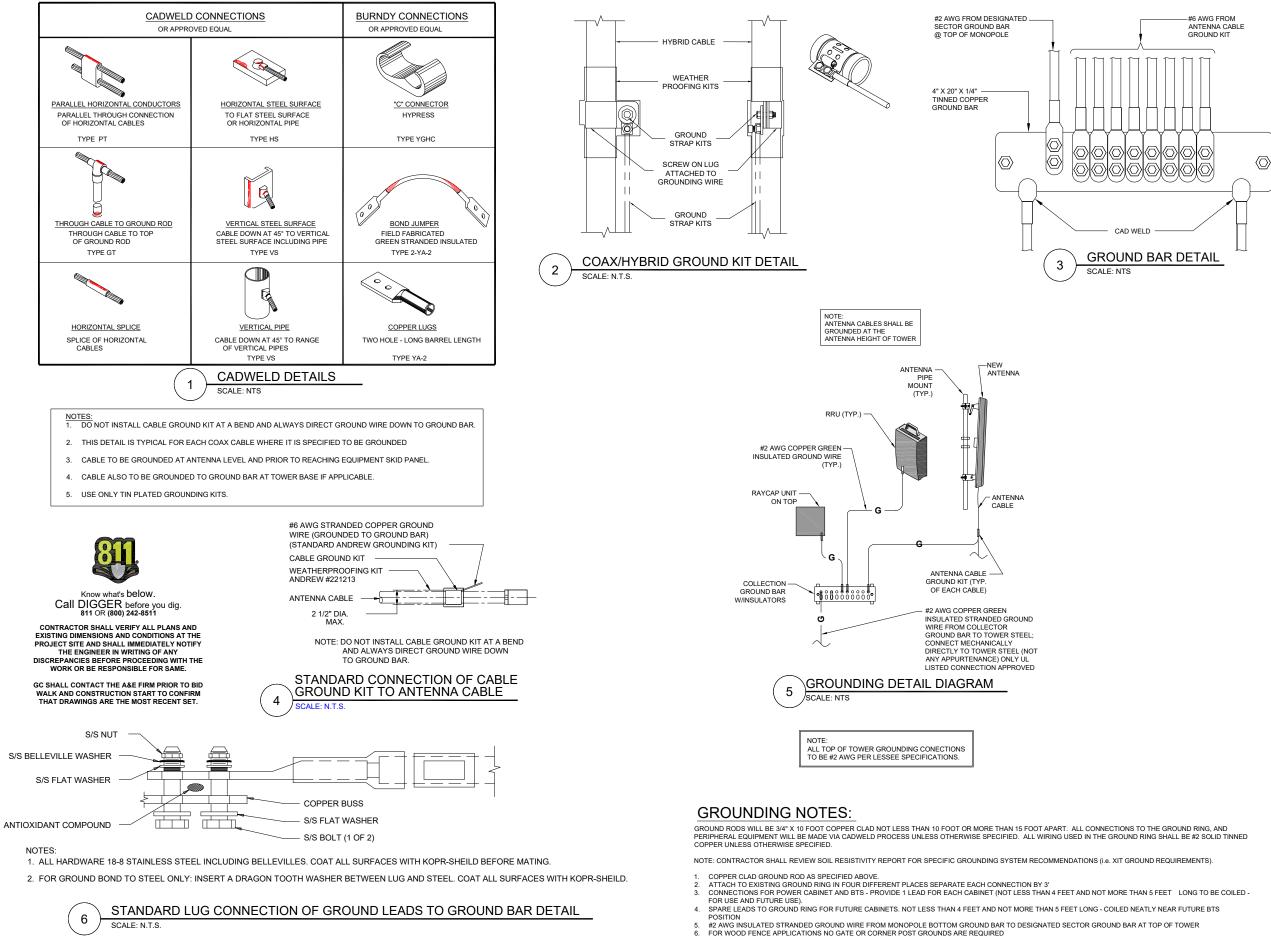
Description	Specification	Notes					
RF Performance							
Frequency Range 1	37-40 GHz	n260 FR2 Band					
EIRP	+64dBmi ± 3dB						
Antenna Type	Phased array						
Antenna Beam Width	>4.5°	Half Power Beam width					
Antenna Scan Range	Azimuth ±45°, E	levation ±10°					
Antenna Scan Loss	3dB max (@ ±45°					
Main Beam Sidelobes	20dE	30					
Features							
Channel Bandwidth	100, 200, 400, 800MHz	Contiguous					
# of Layers	2	Horizontal & Vertical Antenna					
Carrier Aggregation	Up to8CC	Polarization, 2x2 MIMO 800MHz aggregated BW per layer					
Component Carrier	100, 200, 400MHz	800MHz aggregated BW per layer					
Bandwidth Modulation UL & DL	QPSK, 16QAM, 64						
Duplex Mode		· · · · · · · · · · · · · · · · · · ·					
•	IEEE 1588 PTP v2 (Mictochip DPLL) GPS with	Holdover occurs when IEEE 1588 Grandmaste					
Time Sync	External Antenna Holdover - 8hrs	and GPS unavailable					
MIMO	2T2	R					
Interfaces							
Back Haul	2x10GbE Fiber (SFP+) 1x1GbE RJ45 as LMN (Local Management)						
Power	DC 54V (Option with External AC Adaptor, 100-240 VAC, 54V ±5% 6.48A)	Peak Power consumption ~320W					
Led Indicators	System & F	ront Haul					
Environmental/Certificatior	<u> </u>						
Operating Temperature	-40° to +	-55°C					
Range Operating Humidity Range							
	5% to 95						
IP Rating	IP67 UL. F(
Certification	3GPP cor	mpliant					
	RoSH and gNB 18 kg (3	39.68 lbs)					
Weight	AC/DC Power Adapto Mounting Bracket 2						
Dimension	Total 23.8 kg						
Dimensions (H x W x D)	455 mm x 409 mm x 229 mm (17.91 in x 16.10 in x 9.02 in)					
Software	1						
Management	HTTPS/N	letconf					
Firmware Upgrade	FOTA & Local (
	IEEE 802.1Q-1998 / IEEE 802.1AD						
LAN	(VLAN, QinQ) IEEE 802.1P (DSCP QOS) IPv4/IPv6 Dual-Stack NAPT, DNS Proxy, Port Forwarding, VPN Pass-through, DHCP Server/Client MAC/IP Packet Filtering,	PDU Type Ethernet supported					



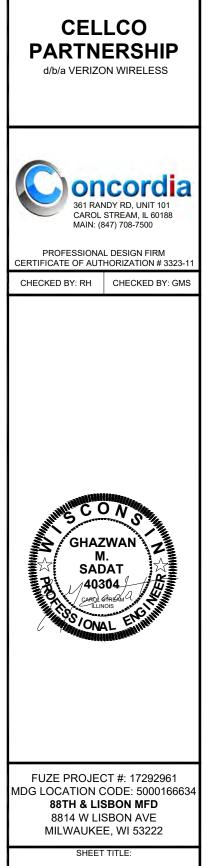
	D
Depth	320
Height	749
Width	419
Weight	14.

	NEW OVP
2	(RAYCAP
2)	SCALE: N.T.S.

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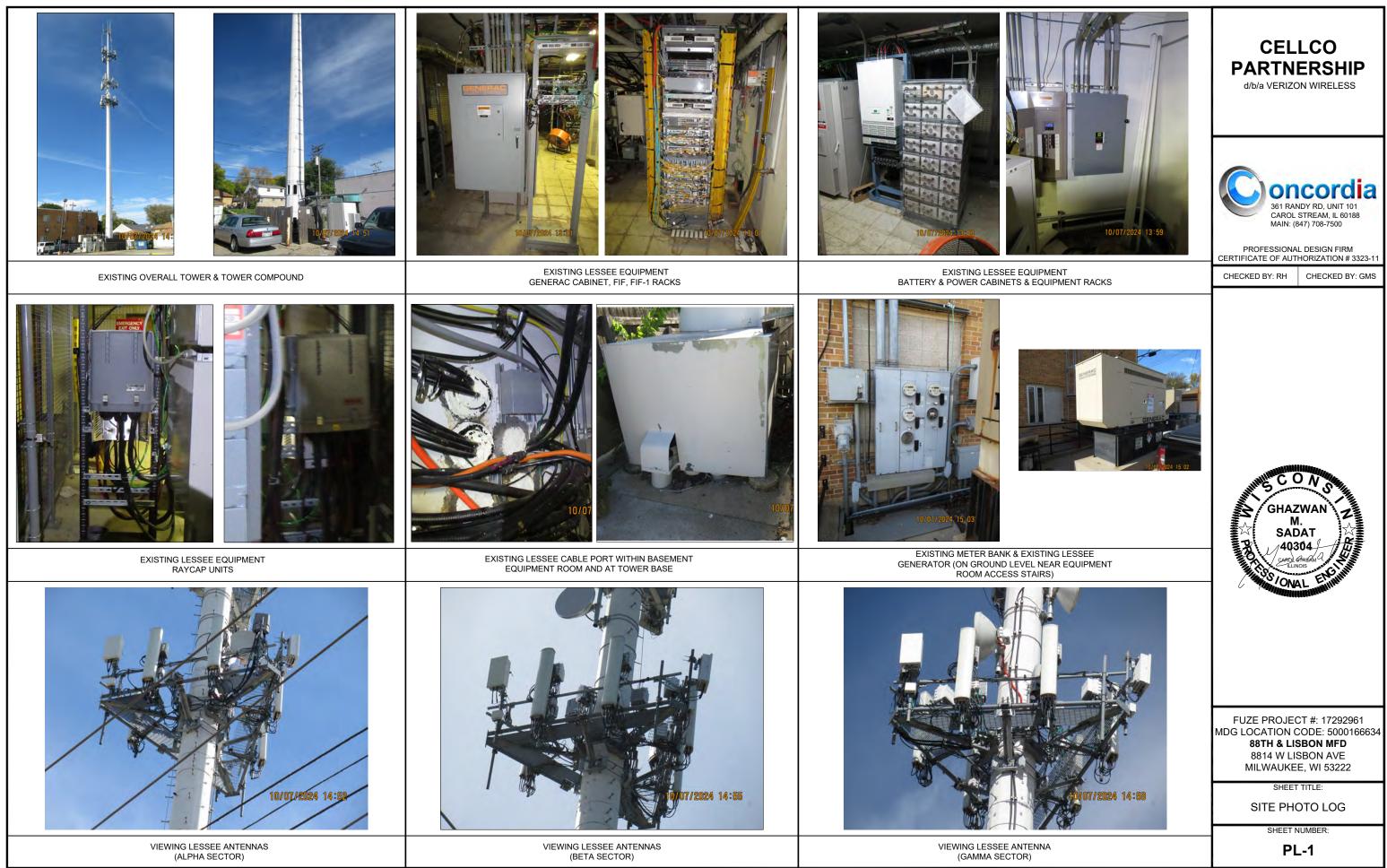
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GROUNDING DETAILS

SHEET NUMBER

G-1



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