



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

JULIA KROG, DIRECTOR
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FAX: 707-463-5709
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pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

April 30, 2024

Department of Transportation
Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor
Air Quality Management

Department of Forestry/ CalFire
-Land Use
Department of Fish and Wildlife
Laytonville Municipal Advisory Council

Cloverdale Rancheria
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Long Valley Fire District

CASE#: AP_2024-0015

DATE FILED: 3/12/2024

OWNER: CROWN CASTLE GT COMPANY LLC

APPLICANT: T-MOBILE WEST LLC BY CROWN CASTLE USA INC.

AGENT: VICTORIA CHHUN, CROWN CASTLE

REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one (1) microwave dish, one (1) microwave cable, and one (1) fiber cable on an existing sixty-five foot (65') tall monopole tower.

LOCATION: 9± miles northeast of Laytonville, on the north side of Spyrock Road (CR 323) 4.4± miles northeast of its intersection with U.S. Route 101, located at 3750 Spyrock Road, Laytonville; (APN: 056-310-18).

SUPERVISORIAL DISTRICT:

STAFF PLANNER: LIAM CROWLEY

RESPONSE DUE DATE: May 14, 2024

PROJECT INFORMATION CAN BE FOUND AT:

www.mendocinocounty.org

Select "Government" from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

- No comment at this time.
- Recommend conditional approval (attached).
- Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
- Recommend denial (Attach reasons for recommending denial).
- Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
- Other comments (attach as necessary).

REVIEWED BY:

Signature _____ Department _____ Date _____

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APN/S: 056-310-18

PARCEL SIZE: 0.5± Acres

GENERAL PLAN: Remote Residential 20-Acre Minimum (RMR:40)

ZONING: Upland Residential (UR-20)

EXISTING USES: Wireless Communication Facility

DISTRICT: 4 (Gjerde)

RELATED CASES: See below.

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	Remote Residential (RMR:20)	Upland Residential (UR-20)	20.12± Acres	Residential/Agricultural
EAST:	Remote Residential (RMR:20)	Upland Residential (UR-20)	20.12± Acres	Residential/Agricultural
SOUTH:	Remote Residential (RMR:20)	Upland Residential (UR-20)	20.12± Acres	Residential/Agricultural
WEST:	Remote Residential (RMR:20)	Upland Residential (UR-20)	20.12± Acres	Residential/Agricultural

REFERRAL AGENCIES

LOCAL

- Air Quality Management District
- Assessor’s Office
- Building Division (Ukiah)
- Department of Transportation (DOT)
- Environmental Health (EH)

- Long Valley Fire District
- Laytonville MAC
- STATE**
- CALFIRE (Land Use)
- California Dept. of Fish & Wildlife

TRIBAL

- Cloverdale Rancheria
- Redwood Valley Rancheria
- Sherwood Valley Band of Pomo Indians

ADDITIONAL INFORMATION: Related projects include the following.

U 26-98: Use Permit in 2 phases: Phase 1 – to add three 15-foot antennas and one 3.88-inch GPS antenna to an existing 20 foot pole; Phase 2 – to replace the existing pole with a 75 foot monopole with nine 4-foot panel antennas, two 10-foot microwave dishes and four 15-foot whip antennas, not to exceed 90 feet. The Planning Commission approved only Phase 1 of this project on 05/06/1999.

UM 26-98/2002: Modification of use permit to allow the construction of a 12 foot by 15-foot equipment shelter and to mount one 3-inch GPS antenna and three additional 15-foot omni antennas to an existing 20-foot monopole at an existing telecommunications facility, for a total of six 15-foot omni antennas at the facility. Total project height of 35 feet will not be increase. Approved 10/03/2002.

U 5-2005: Use Permit to reinstate an expired Use Permit Modification (#UM 26-98/2002) for a wireless telecommunication site. No change is proposed to the existing facility consisting of three (3) 15-foot whip antennas and three (3) 4-foot panel antennas attached to a 20-foot monopole (for a total height of 35 feet), an 11’6” x 15’ equipment shelter on a concrete slab, a generator, transformer and GPS antenna. Approved 10/20/2005.

U 3-2009: Use Permit to replace an existing 30 foot tall monopole with a wireless telecommunication facility able to support two wireless providers (T-Mobile and Verizon Wireless) consisting of a 50-foot tall “monopine” (monopole designed to resemble a pine tree), six panel antennas, one microwave dish and ground based equipment. Approved 10/15/2009.

UM 3-2009/2012: Use Permit Modification to add one (1) 52.4 inch diameter microwave dish to an existing 45 foot tall “monopine” (monopole designed to resemble a pine tree). Approved 07/19/2012.

UM 3-2009/2014: Modification of existing Use Permit to extend the height of a tower from 50 feet to 70 feet. Also, installation of three (3) new antennas per sector for a total of nine (9) new antennas at the 58 foot centerline of the 70 foot monopole, and a 138 square foot equipment shelter to house a standard number of equipment cabinets and a 50 kilowatt diesel generator with a 132 gallon diesel fuel tank. Approved 12/18/2014.

UM_2020-0004: Modification of an existing Use Permit (UM 3-2009/2014), permitting AT&T Mobility to install new equipment in the existing compound area and increase the height of the existing tower by 20 ft. The request also includes installation of a 30 KW Generac Diesel Generator with a 190 gallon associated fuel storage tank, as well as various equipment and antenna additions to the tower itself. No action was taken by the Planning Commission, but the project was deemed approved on 03/18/2021.

AP_2016-0019: Administrative Permit to add a backup generator and propane fuel tank to an existing Cell Tower facility. Approved 10/06/2016.

STAFF PLANNER: LIAM CROWLEY

DATE: 4/22/2024

ENVIRONMENTAL DATA

1. MAC:

GIS

Laytonville MAC

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

Moderate

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

State Responsibility Area (SRA)

4. FARMLAND CLASSIFICATION:

GIS

Grazing Land (G)

5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)

None

6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS

N/A

7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part

Western Soil Class Unit No. 202

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:

LCP maps, Pygmy Soils Maps; GIS

N/A

9. WILLIAMSON ACT CONTRACT:

GIS/Mendocino County Assessor's Office

No

10. TIMBER PRODUCTION ZONE:

GIS

No

11. WETLANDS CLASSIFICATION:

GIS

None

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS

None

13. AIRPORT LAND USE PLANNING AREA:

Airport Land Use Plan; GIS

None

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:

GIS; General Plan 3-11

No

15. NATURAL DIVERSITY DATABASE:

CA Dept. of Fish & Wildlife Rarefind Database/GIS

None

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10

No

17. LANDSLIDE HAZARD:

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44

No

18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34

No

19. WILD AND SCENIC RIVER:

www.rivers.gov (Eel Only); GIS

No

20. SPECIFIC PLAN/SPECIAL PLAN AREA:

Various Adopted Specific Plan Areas; GIS

No

21. STATE CLEARINGHOUSE REQUIRED:

Policy

No

22. OAK WOODLAND AREA:

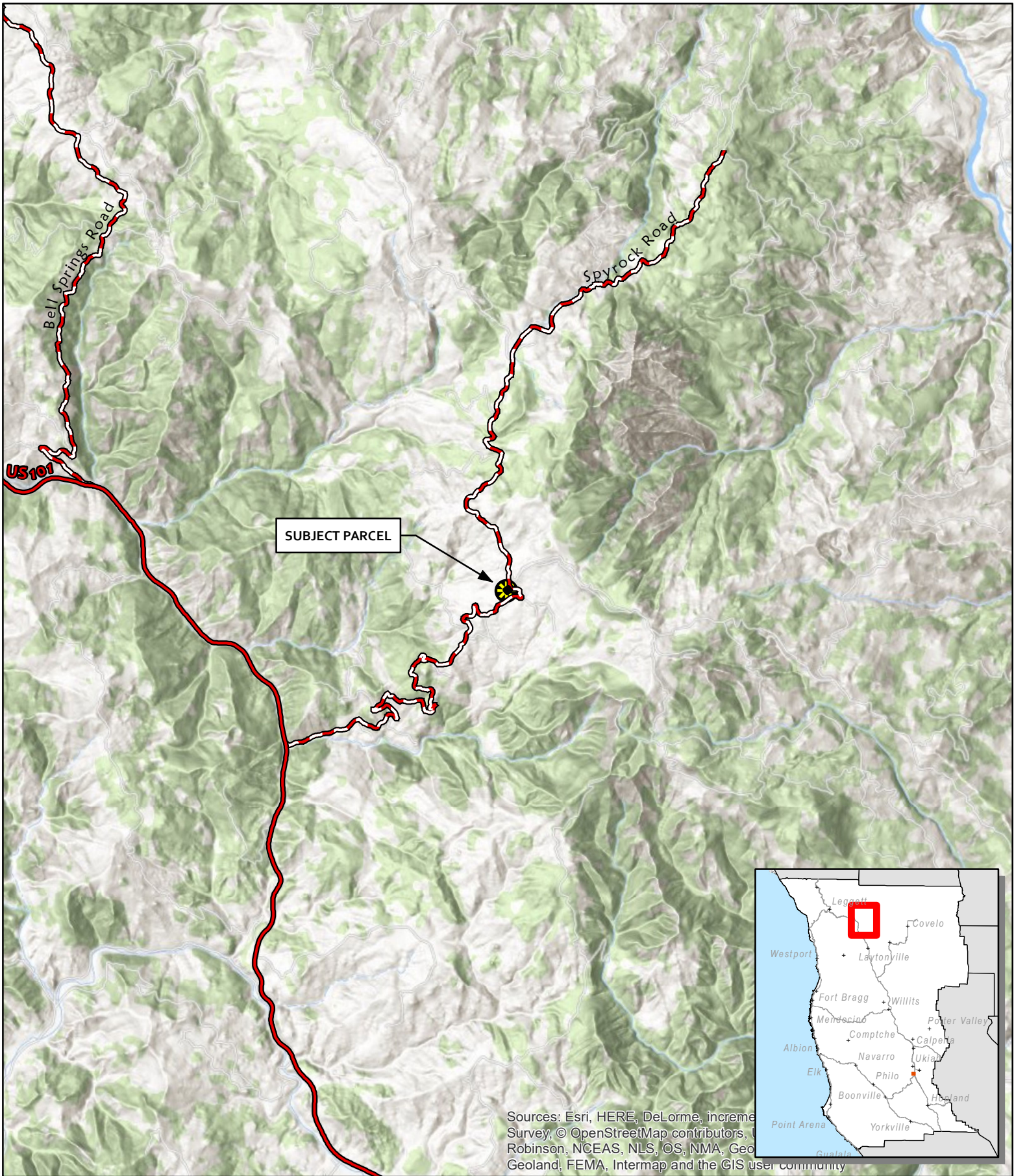
USDA

No

23. HARBOR DISTRICT:

Sec. 20.512

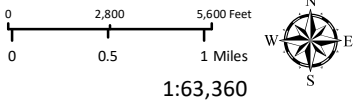
No



Sources: Esri, HERE, DeLorme, Inceprun, Survey, © OpenStreetMap contributors, U.S. Geological Survey, Robinson, NCEAS, NLS, OS, NMA, Geoportals, Geoland, FEMA, Intermap and the GIS user community

CASE: AP 2024-0015
OWNER: Crown Castle USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

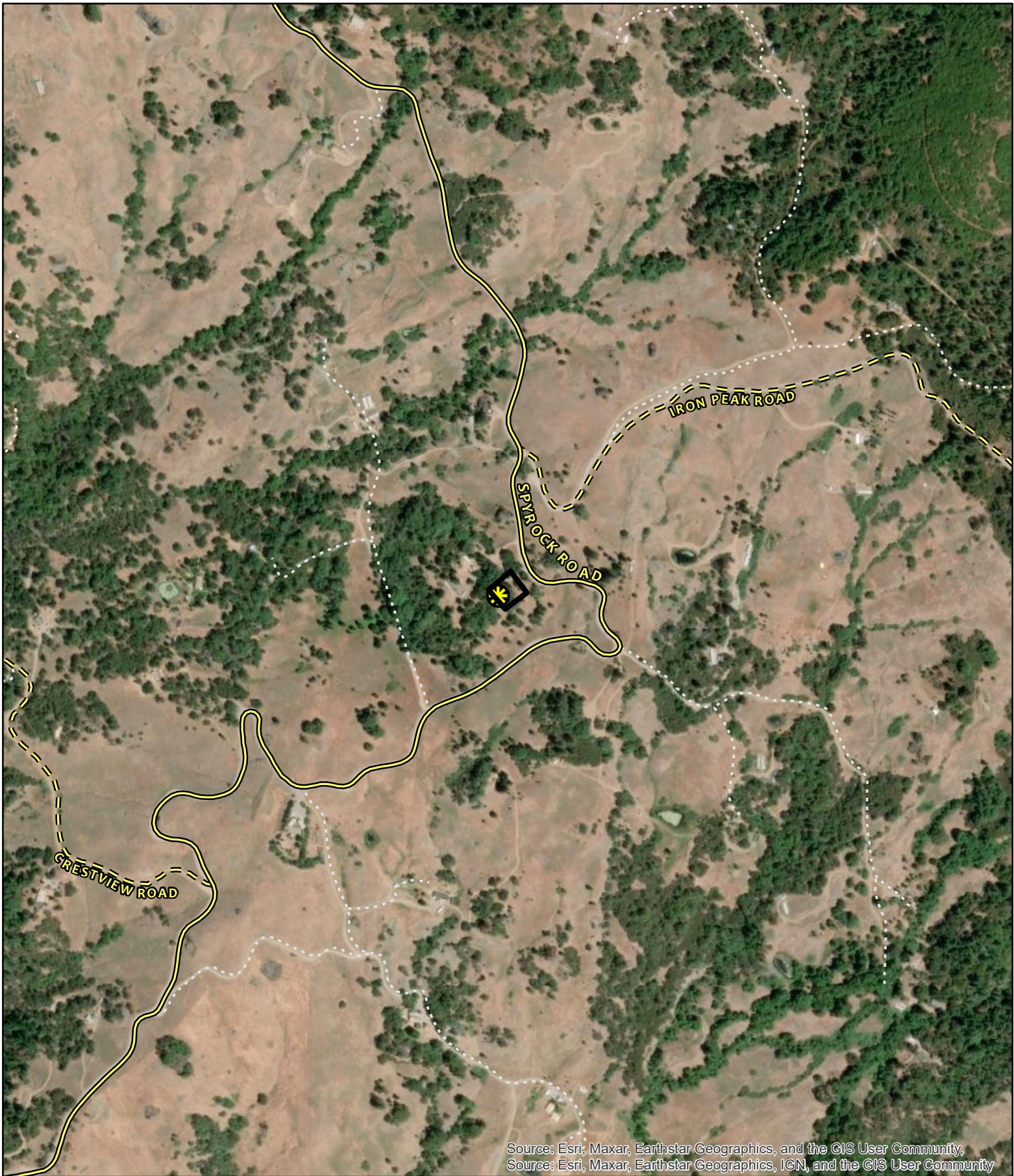
-  Highways
-  Major Roads
-  Approved Wireless Sites



1:63,360




LOCATION


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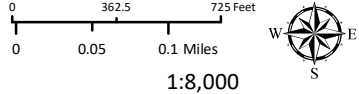


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Source: Esri, Maxar, Earthstar Geographics, IGN, and the GIS User Community

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-  Public Roads
-  Private Roads
-  Driveways/Unnamed Roads

 Approved Wireless Sites





AERIAL IMAGERY

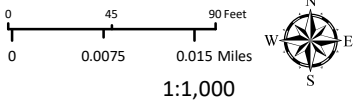
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 Public Roads
 Approved Wireless Sites



1:1,000
AERIAL IMAGERY

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T-Mobile

T-MOBILE SITE NUMBER: SF40873A
T-MOBILE SITE NAME: CCI-CUMMINGS
T-MOBILE PROJECT: MICROWAVE UPGRADE

BUSINESS UNIT #: 814448
SITE ADDRESS: 3750 SPYROCK ROAD
 LAYTONVILLE, CA 95454
COUNTY: MENDOCINO
SITE TYPE: MONOPOLE
TOWER HEIGHT: 65'-0"

T-Mobile

1200 CONCORD AVENUE, SUITE 500
 CONCORD, CA 94520



1 PARK PLACE, SUITE 300
 DUBLIN, CA 94568



P. MARSHALL & ASSOCIATES
 6801 PORTWEST DR. STE 100,
 HOUSTON, TX 77024
 OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
 SF40873A

BU #: 814448

CCI-CUMMINGS

**3750 SPYROCK ROAD
 LAYTONVILLE, CA 95454**

**EXISTING 65'-0"
 MONOPOLE**

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	02/20/24	MAS	PRELIMINARY	HS
0	02/23/24	MAS	FINAL CD	HS

SITE INFORMATION

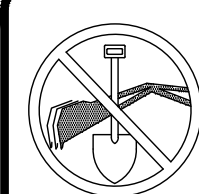
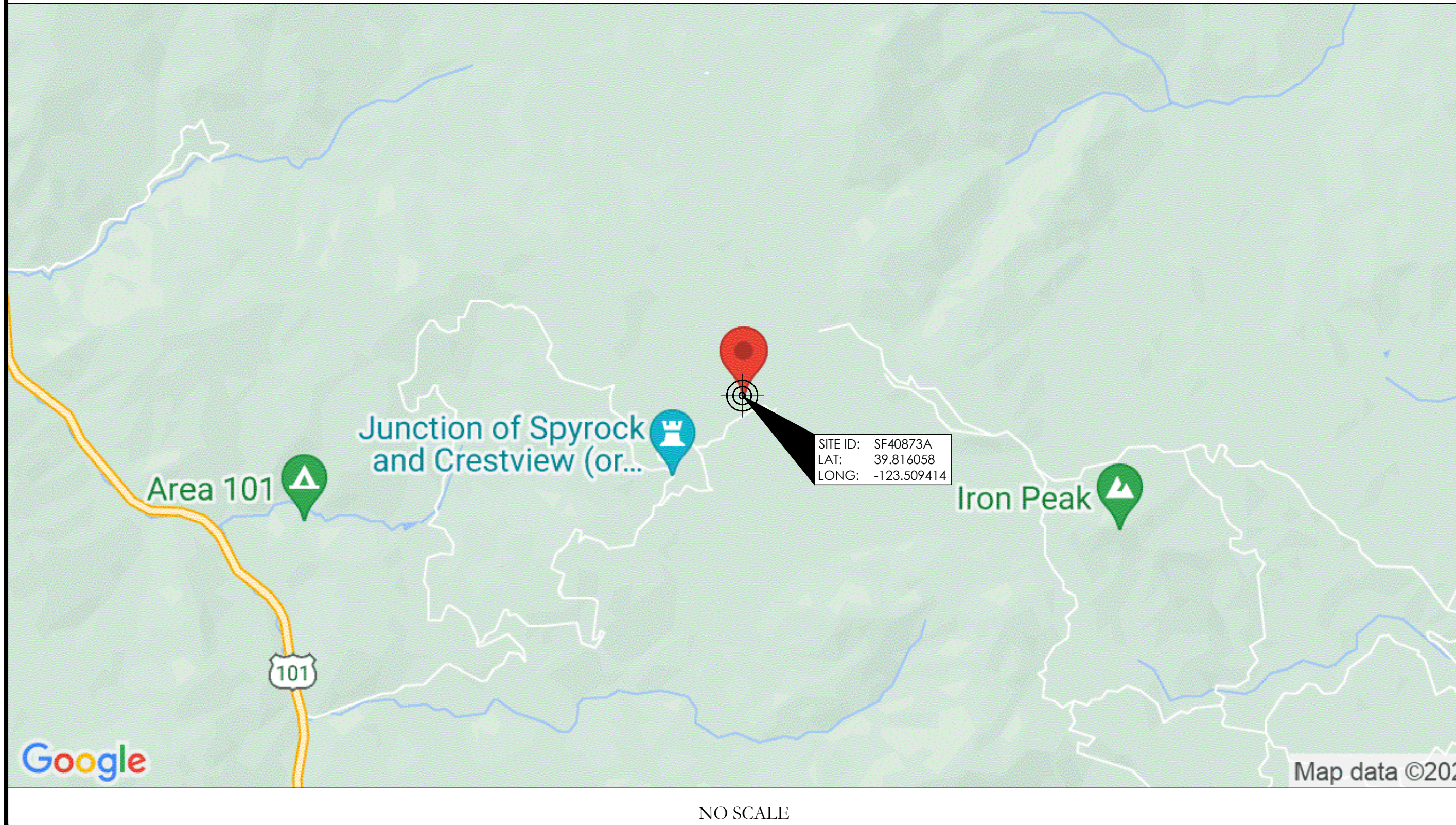
CROWN CASTLE USA INC. CUMMINGS
SITE NAME:
SITE ADDRESS: 3750 SPYROCK ROAD
 LAYTONVILLE, CA 95454
COUNTY: MENDOCINO
MAP/PARCEL #: 056-310-18
AREA OF CONSTRUCTION: EXISTING
LATITUDE: 39.816058
LONGITUDE: -123.509414
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 3372.8'
CURRENT ZONING: UR 20
JURISDICTION: COUNTY OF MENDOCINO, CA
OCCUPANCY CLASSIFICATION: U
TYPE OF CONSTRUCTION: IIB
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR
 HUMAN HABITATION
PROPERTY OWNER: CROWN CASTLE GT COMPANY LL
 4017 WASHINGTON RD
 MCMURRAY, PA 15317
TOWER OWNER: CROWN CASTLE USA, INC.
 1 PARK PLACE, SUITE 300
 DUBLIN, CA 94568
CARRIER/APPLICANT: T-MOBILE
 1200 CONCORD AVENUE, SUITE 500
 CONCORD, CA 94520
ELECTRIC PROVIDER: PACIFIC GAS & ELECTRIC
 (800) 743-5000
TELCO PROVIDER: ---

DRAWING INDEX

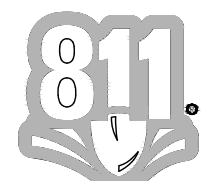
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	OVERALL SITE PLAN
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2 - C-2.1	TOWER ELEVATIONS
C-3	FINAL MICROWAVE PLAN
C-4	FINAL MICROWAVE EQUIPMENT SCHEDULE
C-5	SKYWARE GLOBAL 1.2M KU-BAND MW SPECS
C-6	MICROWAVE CABLE SPECIFICATIONS
G-1	MICROWAVE GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22X34. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

LOCATION MAP



CALL CALIFORNIA ONE CALL
 (800) 227-2600
 CALL 3 WORKING DAYS
 BEFORE YOU DIG!



PROJECT TEAM

A&E FIRM: P. MARSHALL & ASSOCIATES, LLC
 6801 PORTWEST DR, SUITE 100
 HOUSTON, TX 77024
 (713) 677-0964
CROWN CASTLE USA INC. DISTRICT CONTACTS:
 1 PARK PLACE, SUITE 300
 DUBLIN, CA 94568

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
 • INSTALL (1) MICROWAVE
 • INSTALL (1) MW CABLE:
 (1) 1/4" FIBER CABLE

GROUND SCOPE OF WORK:
 • NO GROUND WORK NEEDED

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 THESE CODES:

CODE TYPE	CODE
BUILDING	2022 CALIFORNIA BUILDING CODE (CBC)/2021 IBC
MECHANICAL	2022 CALIFORNIA MECHANICAL CODE (CMC)/2021 UMC
ELECTRICAL	2022 CALIFORNIA ELECTRICAL CODE (CEC)/2020 NEC
FIRE	2022 CALIFORNIA FIRE CODE (CFC)/2021 IFC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	TELAMON
DATED:	02/05/24
MOUNT ANALYSIS:	TOWER ENGINEERING PROFESSIONALS
DATED:	01/24/24
ORDER ID:	661913
REVISION:	0



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PROJECT NUMBER:
24CCTCAM-012

SHEET NUMBER: T-1
REVISION: 0

SITE ACCESS:
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER...
2. THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION...
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED...
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS...
5. ALL SITE WORK TO COMPLY WITH QAS-STD-10068 'INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE'...
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION...
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES...
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS...
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK...
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK...
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE...
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS...
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION...
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY...
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION...
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES...
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS...
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION...
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND...

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION...
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES...
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE...
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS...
5. SUBSTANTIAL WORK HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS...
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS...
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES...
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS...
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS...
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION...
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES...
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES...
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS...
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION, TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE...
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf...
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS...
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES...
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615...
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL...
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE...

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES...
2. CONDUIT ROUTINGS ARE SCHEMATIC...
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC...
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC...
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE...
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS...
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS...
8. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL...
9. ALL POWER AND GROUNDING WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR...
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR...
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR...
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR...
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE...
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE...
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS...
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS...
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT...
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS...
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED...
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE...
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER...
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER...
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS...
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL...
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING...
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2...
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC...
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS...
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW 'T-MOBILE'...
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR. Lists conductor color codes for 120/240V, 1Ø and 120/208V, 3Ø systems, including phases A, B, C and ground, plus DC voltage markings.

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

Table mapping abbreviations to full names: ANT - ANTENNA, (E) - EXISTING, FIF - FACILITY INTERFACE FRAME, GEN - GENERATOR, GPS - GLOBAL POSITIONING SYSTEM, GSM - GLOBAL SYSTEM FOR MOBILE, LTE - LONG TERM EVOLUTION, MGB - MASTER GROUND BAR, MW - MICROWAVE, (N) - NEW, NEC - NATIONAL ELECTRIC CODE, (P) - PROPOSED, PP - POWER PLANT, QTY - QUANTITY, RECT - RECTIFIER, RBS - RADIO BASE STATION, RET - REMOTE ELECTRIC TILT, RFDS - RADIO FREQUENCY DATA SHEET, RRH - REMOTE RADIO HEAD, RRU - REMOTE RADIO UNIT, SIAD - SMART INTEGRATED DEVICE, TMA - TOWER MOUNTED AMPLIFIER, TYP - TYPICAL, UMS - UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM, W.P. - WORK POINT

APWA UNIFORM COLOR CODE:

Color key for APWA: WHITE (PROPOSED EXCAVATION), PINK (TEMPORARY SURVEY MARKINGS), RED (ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES), YELLOW (GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS), ORANGE (COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS), BLUE (POTABLE WATER), PURPLE (RECLAIMED WATER, IRRIGATION, AND SLURRY LINES), GREEN (SEWERS AND DRAIN LINES)

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE...
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING...
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION...
4. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS...
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR...
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR...
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK...
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER...
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS...
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED...
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE...
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS...
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS...
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR...
15. APPROVED ANTI-OXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS...
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL...
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING...
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR...
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS...
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER...
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS...

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T-MOBILE SITE NUMBER: SF40873A
BU #: 814448
CCI-CUMMINGS
3750 SPYROCK ROAD, LAYTONVILLE, CA 95454
EXISTING 65'-0" MONOPOLE

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Shows revision history for PRELIMINARY and FINAL CD.

Professional Engineer Seal: REGISTERED PROFESSIONAL ENGINEER, ANDREI BARBA, No. C87623, State of California, expires 02/23/2024. Includes text: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PROJECT NUMBER: 24CCTCAM-012
SHEET NUMBER: T-2
REVISION: 0

SITE PLAN DISCLAIMER:
 PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.

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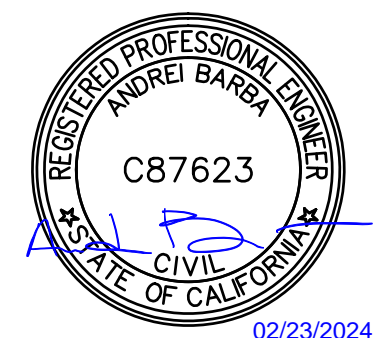
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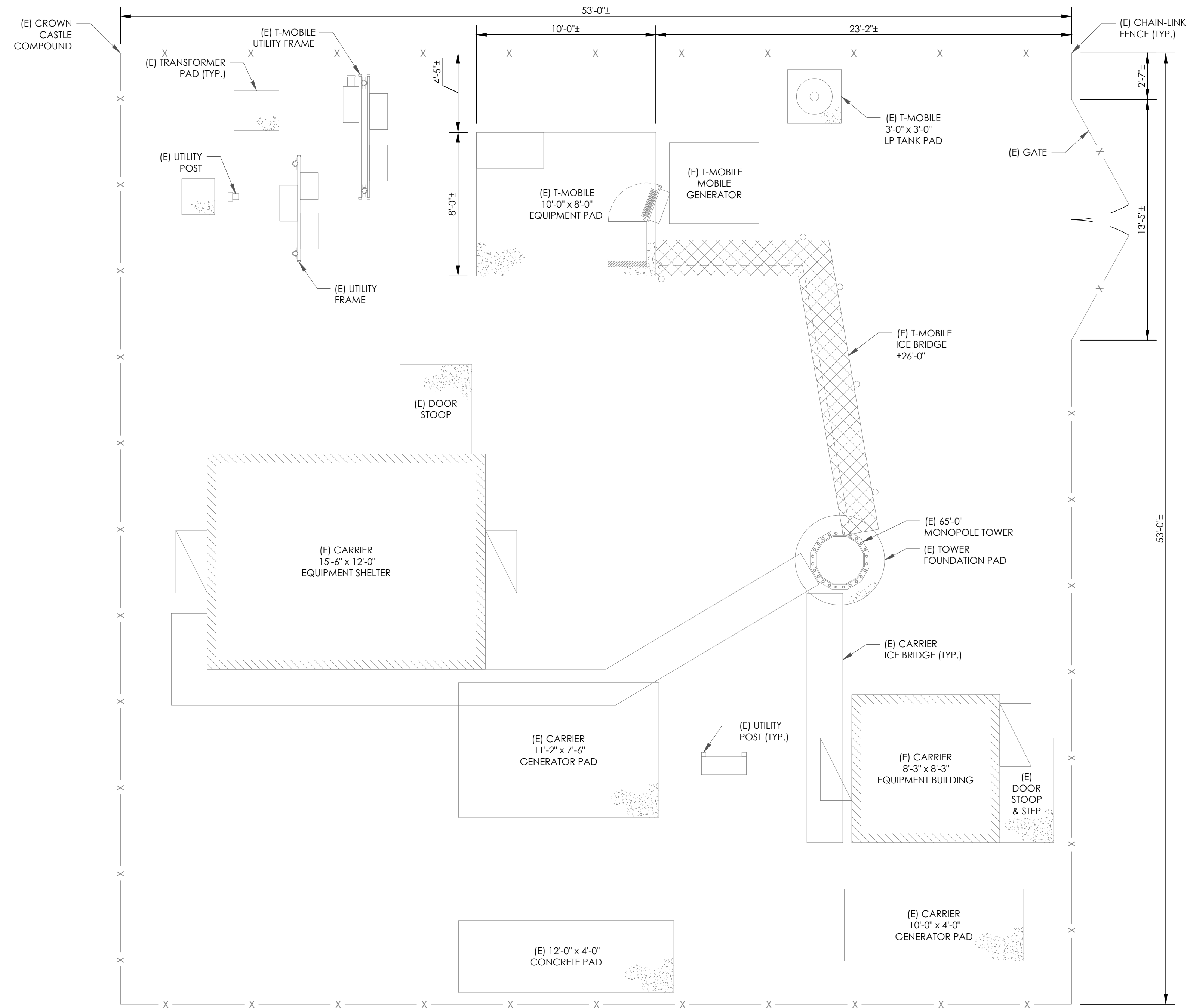

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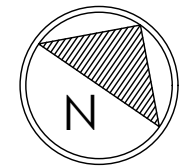
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SHEET NUMBER: C-1	REVISION: 0
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1 SITE PLAN
 SCALE: 1/4"=1'-0" (FULL SIZE)
 1/8"=1'-0" (1x17)



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REVISION:
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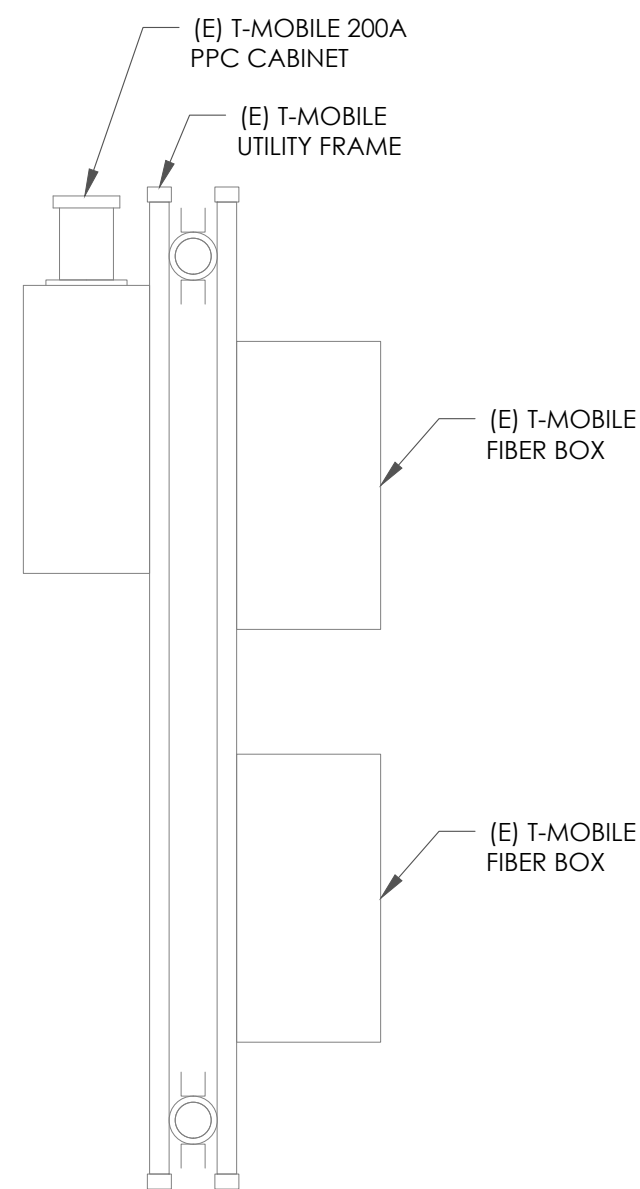
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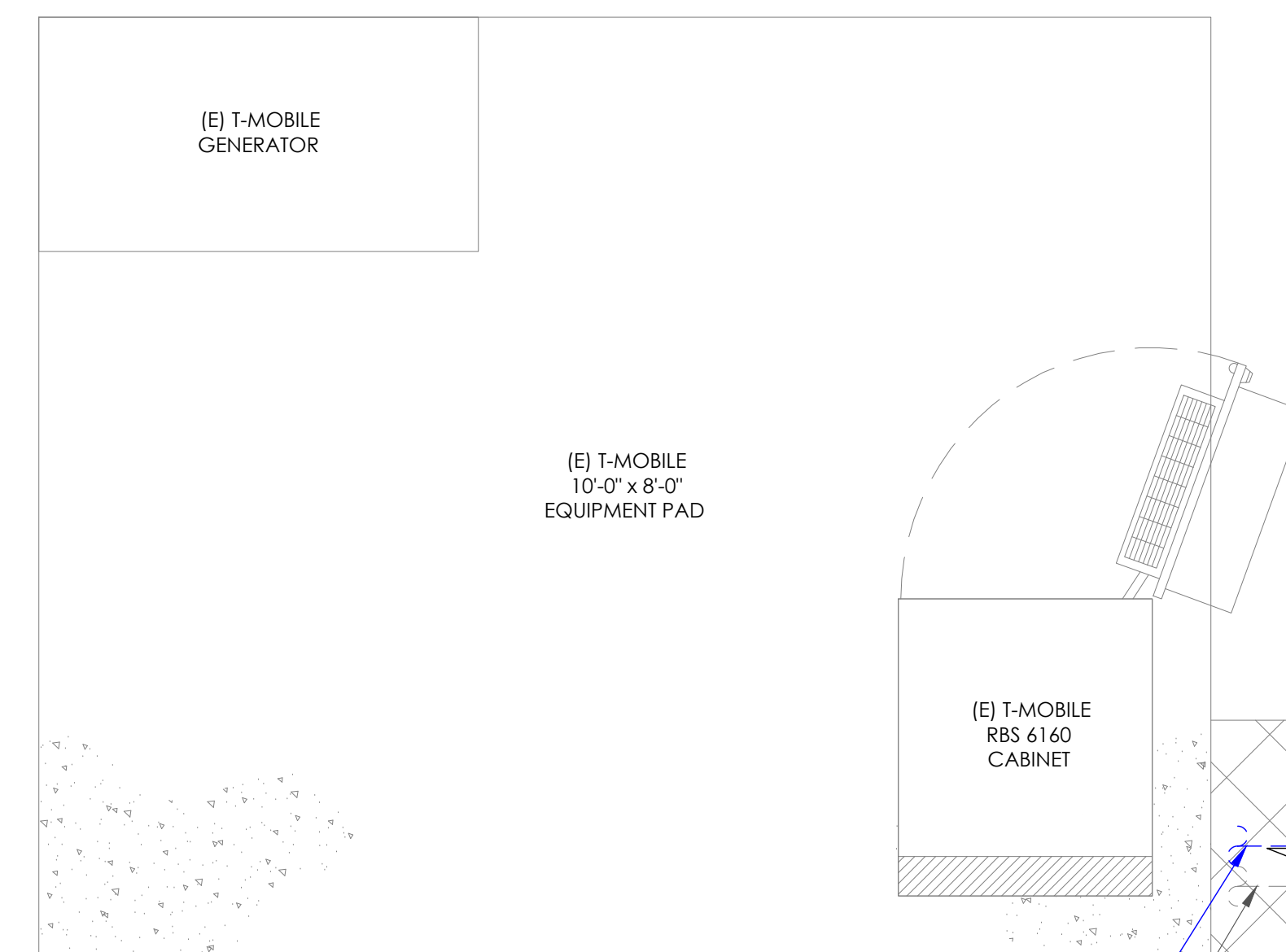
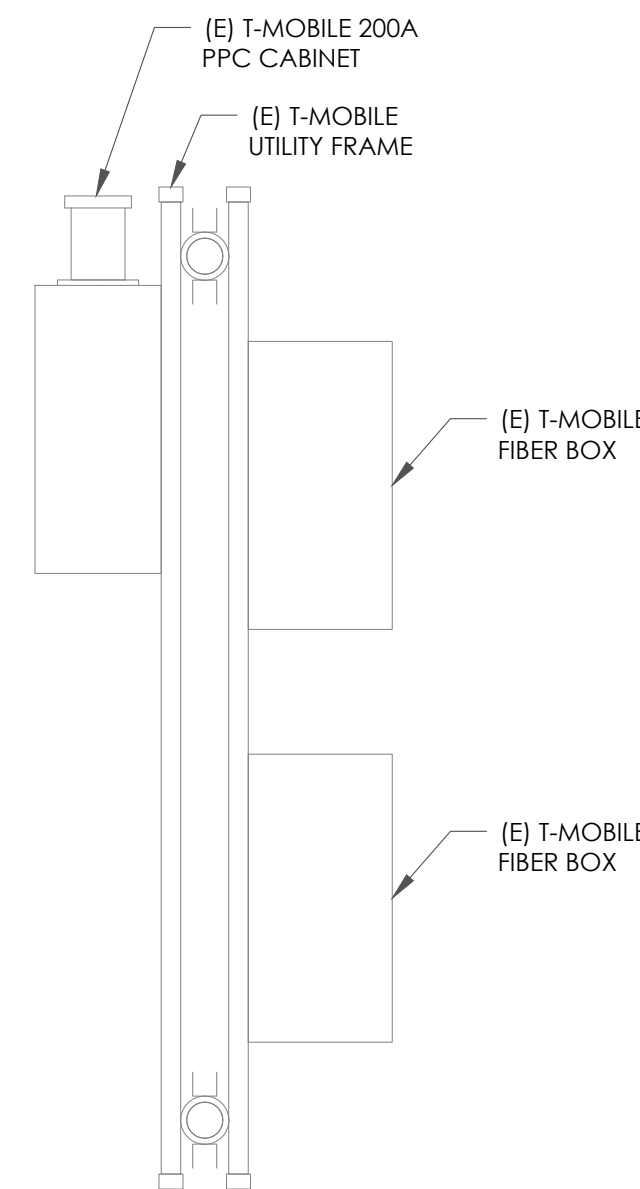
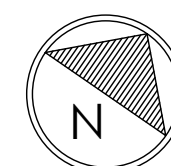
REVISION:
0



(E) T-MOBILE FEEDLINES TO REMAIN:
(1) 7/8" HYBRID CABLE
(6) 7/8" COAX CABLES
(1) 1/2" MW COAX CABLE
(1) 5/16" RET CABLE

1 EXISTING EQUIPMENT PLAN

SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)

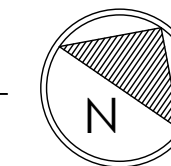


(P) T-MOBILE FEEDLINE:
(1) 1/4" PRIMUS - CAT6 FIBER CABLE

(E) T-MOBILE FEEDLINES:
(1) 7/8" HYBRID CABLE
(6) 7/8" COAX CABLES
(1) 1/2" MW COAX CABLE
(1) 5/16" RET CABLE

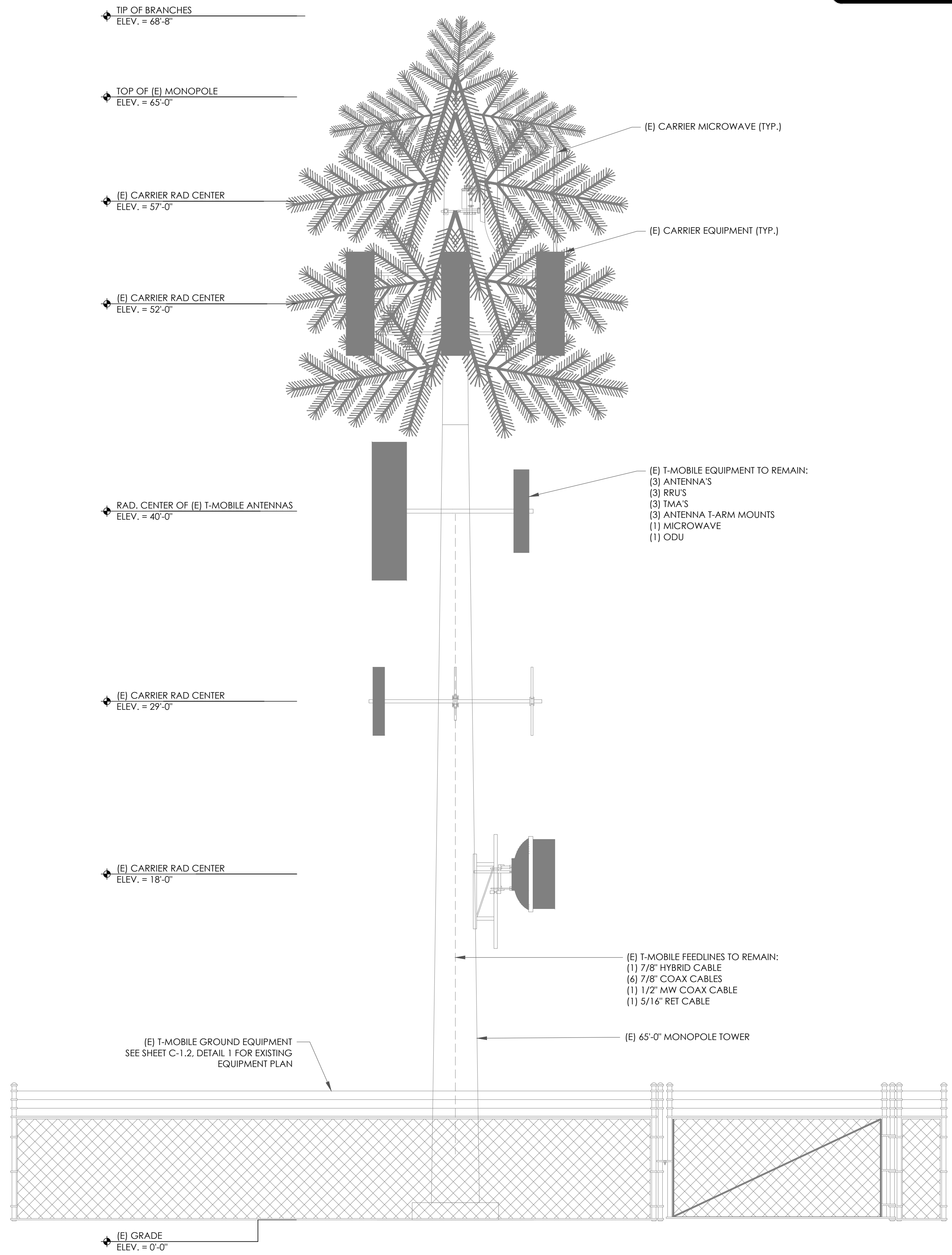
2 NEW EQUIPMENT PLAN

SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)

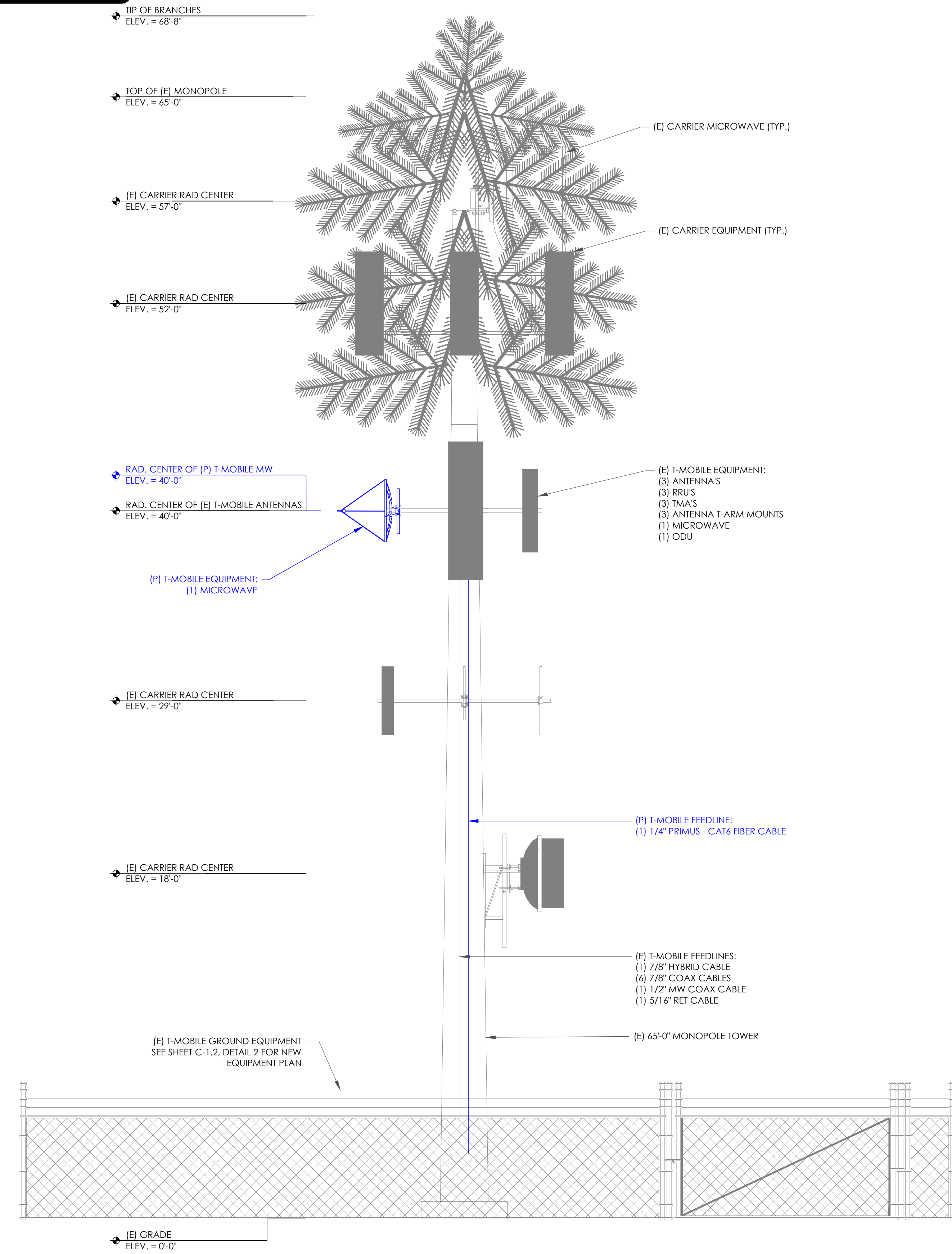


STRUCTURAL ANALYSIS & INSTALLATION NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS, FOUNDATION ANALYSIS & MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



1 EXISTING NORTH-EAST ELEVATION
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



2 NEW NORTH-EAST ELEVATION
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)

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BU #: 814448

CCI-CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 65'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	02/20/24	MAS	PRELIMINARY	HS
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REGISTERED PROFESSIONAL ENGINEER
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C87623
CIVIL
STATE OF CALIFORNIA
02/23/2024

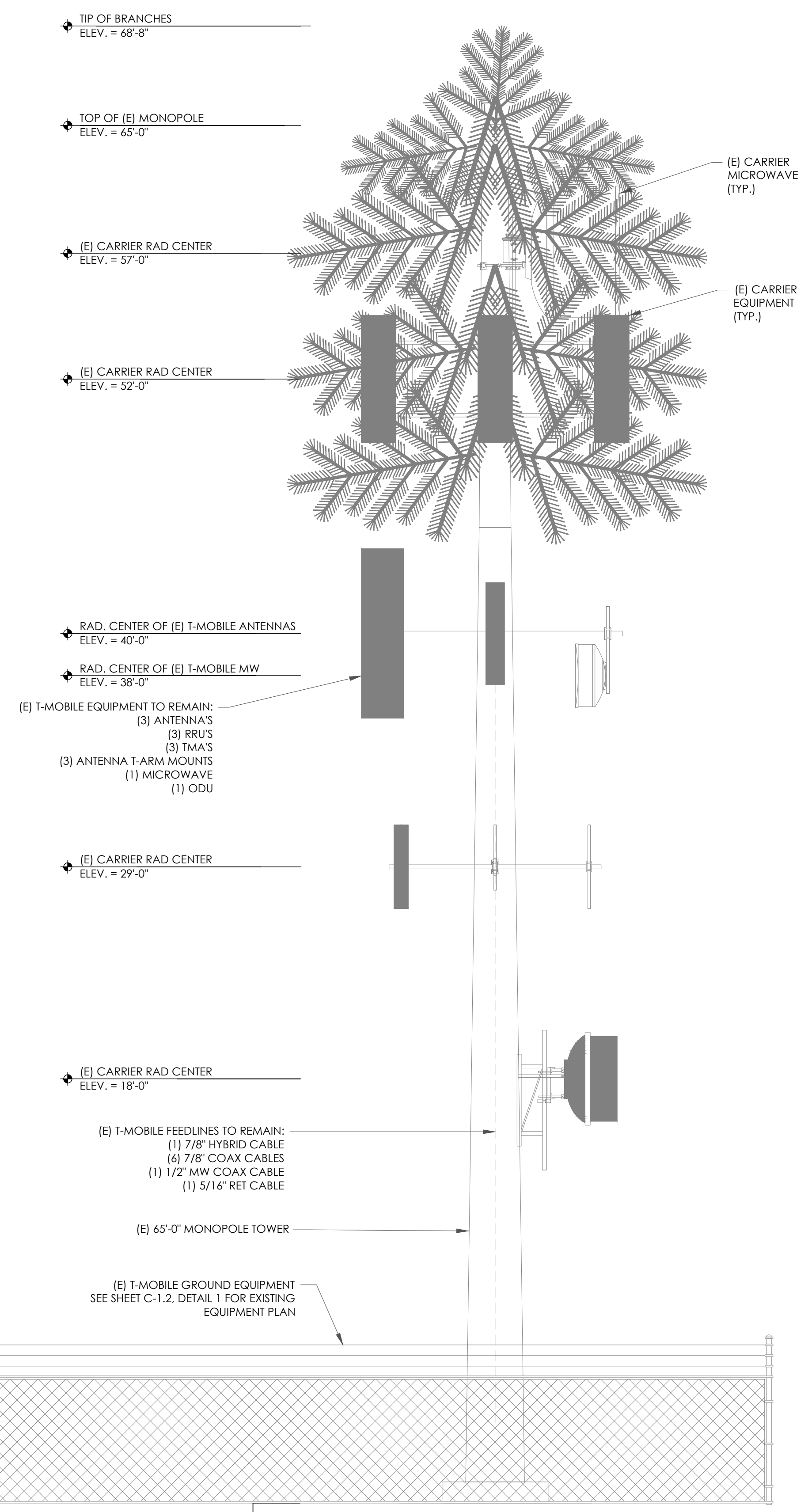
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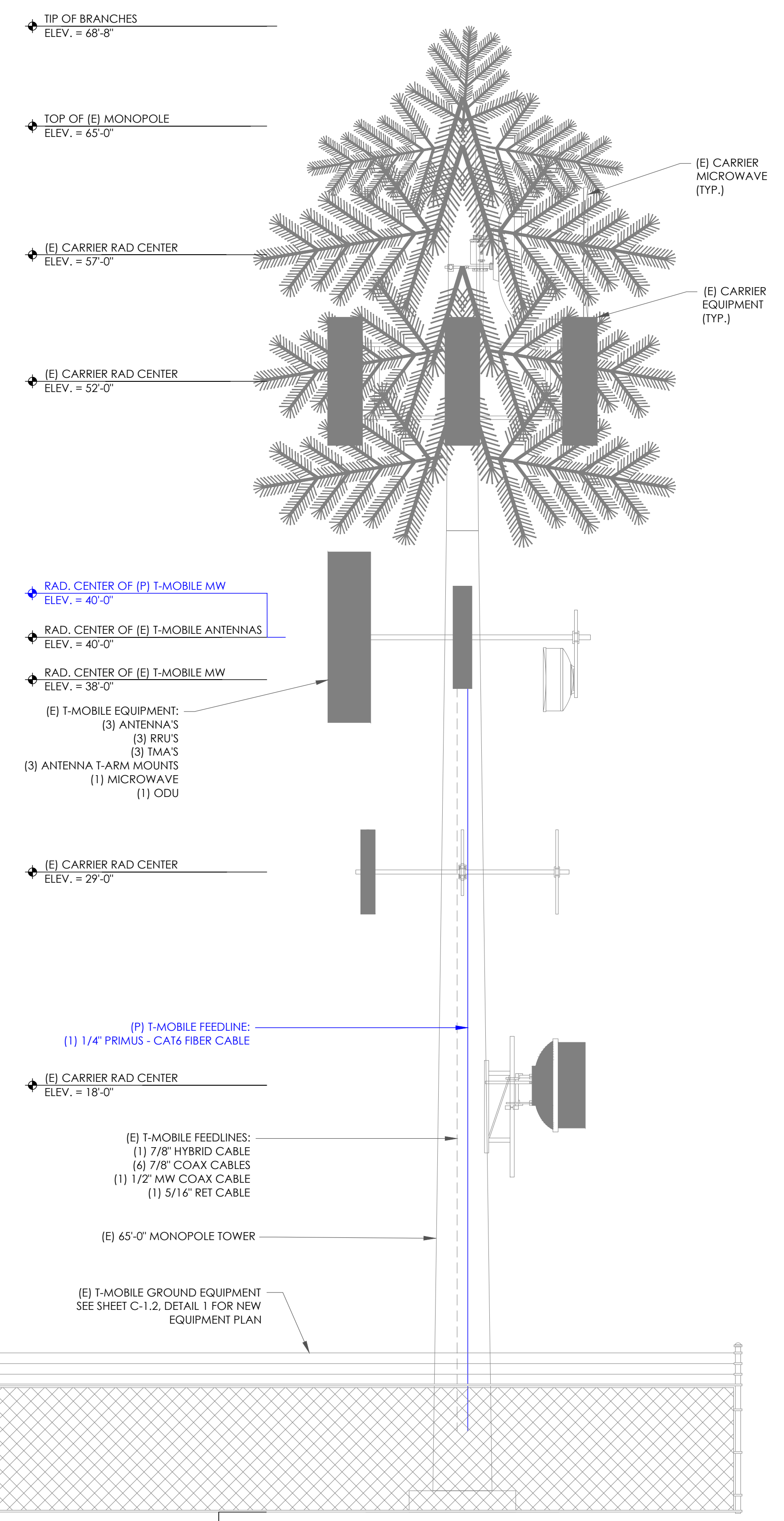
SHEET NUMBER: **C-2** REVISION: **0**

STRUCTURAL ANALYSIS & INSTALLATION NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS, FOUNDATION ANALYSIS & MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



1 EXISTING SOUTH-EAST ELEVATION
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



2 NEW SOUTH-EAST ELEVATION
SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)

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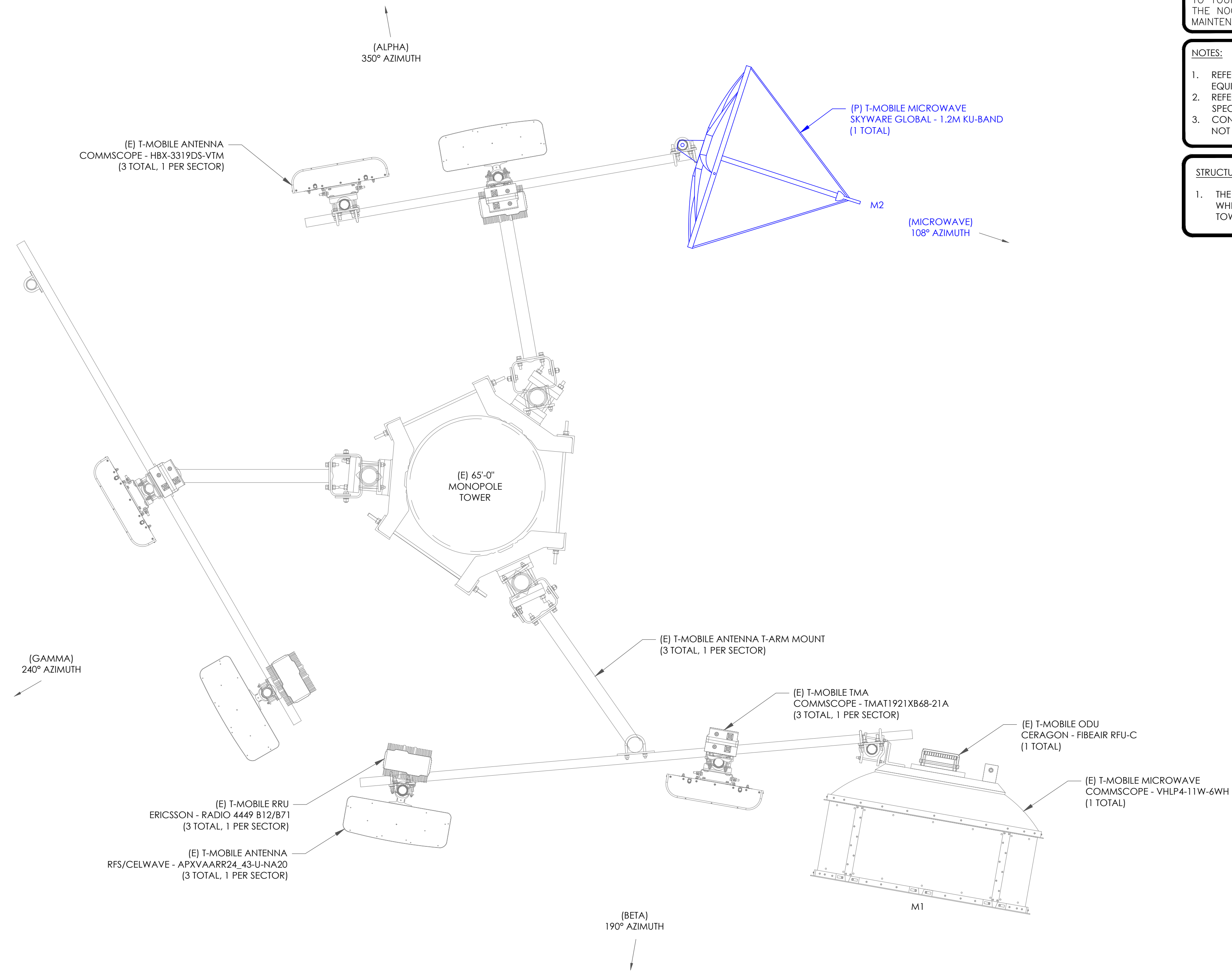
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SHEET NUMBER: **C-2.1** REVISION: **0**



"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

NOTES:

1. REFERENCE CROWN APPLIATION 661913 FOR FINAL EQUIPMENT SCHEDULE.
2. REFERENCE SHEETS C-5 & C-5.1 FOR NEW EQUIPMENT SPECIFICATIONS.
3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.

STRUCTURAL ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS & FOUNDATION ANALYSIS.

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T-MOBILE SITE NUMBER:
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BU #: 814448

CCI-CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 65'-0"
MONOPOLE

ISSUED FOR:

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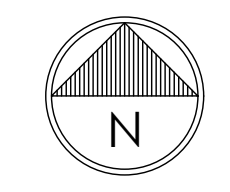
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PROJECT NUMBER:
24CCTCAM-012

SHEET NUMBER: **C-3** REVISION: **0**

1 FINAL MICROWAVE PLAN
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)





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MONOPOLE

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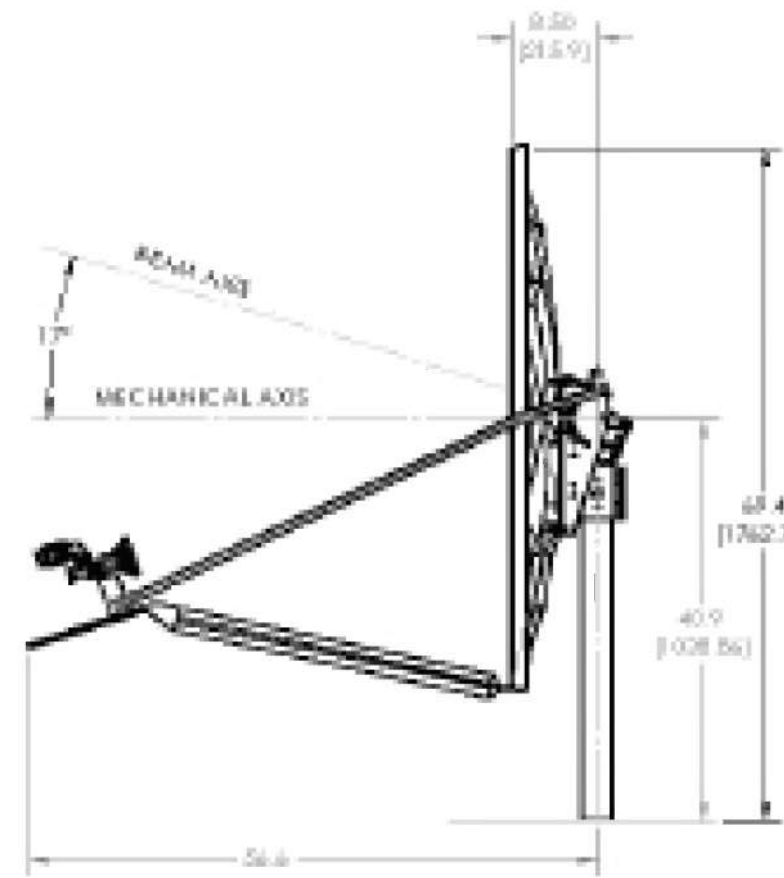
SHEET NUMBER: C-4	REVISION: 0
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FINAL MICROWAVE EQUIPMENT SCHEDULE

MICROWAVE																			
POSITION	ANTENNA				RADIO			DIPLEXER			TMA			SURGE PROTECTION			CABLES		
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH	
M1	MW	(E) COMMSCOPE - VHLP4-11W-6WH	190°	38'-0"	1	(E) CERAGON - FIBEAIR RFU-C	M1	-	-	-	-	-	-	-	1	MW COAX CABLE	1/2"	90'	
															1	MW RET CABLE	5/16"	90'	
M2	MW	(N) SKYWARE GLOBAL - 1.2M KU-BAND	108°	40'-0"	-	-	-	-	-	-	-	-	-	-	1	FIBER CABLE	1/4"	90'	

NOTE:
(E) - EXISTING
(N) - NEW

Type 123 Class II / 1.2m Ku-Band Offset Antenna with XPC Feed



- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Long focal length optics for low cross-pol performance.
- Fine azimuth and elevation adjustments.
- Available with Ku-band co-pol or cross-pol feeds.
- Galvanized 19 mm (.75") O.D. side feed support legs and 51 mm (2") O.D. lower feed support.
- Plated hardware for maximum corrosion resistance.



- Class II system designed for typical 2 W and 4 W Ku-band Block Up-Converters (BUCs)*

*3.6 kg or 8 lb max. weight for RF



RF Performance

Operating Frequency
 Tx 13.75 - 14.50 GHz
 Rx 10.70 - 12.75 GHz

Polarization Linear, Orthogonal

Gain (±0.5 dB)
 Tx 43.3 dBi @ 14.3 GHz
 Rx 41.8 dBi @ 12.0 GHz

3 dB Beamwidth
 Tx 1.2° @ 14.3 GHz
 Rx 1.5° @ 12.0 GHz

Sidelobe Envelope (Tx, Co-Pol dBi)
 1.5° < θ < 20° 29-25 log θ dBi
 20° < θ < 26.3° -3.5 dBi
 26.3° < θ < 48° 32-25 log θ dBi
 48° < θ < 180° -10 dBi

Antenna Cross-Polarization
 >30 dB in 1 dB Contour

Antenna Noise Temperature
 10° EL 45°K
 20° EL 31°K
 30° EL 24°K

VSWR
 Tx 1.3:1
 Rx 1.5:1

Isolation (Port to Port)
 Tx 80db
 Rx 35db

Feed Interface
 Tx WR75 Flat Flange
 Rx WR75 Flat Flange

(All specifications typical)

Mechanical Performance

Reflector Material
 Glass Fiber Reinforced Polyester

Antenna Optics
 One-Piece Offset Feed Prime Focus

Mount Type Elevation over Azimuth

Elevation Adjustment Range
 7° - 84° Continuous Fine Adjustment

Azimuth Adjustment Range
 360° Continuous, ± 20° Fine Adjustment

Mast Pipe Interface
 73 - 76 mm (2.88 in - 3.00 in) Diameter

Environmental Performance

Wind Loading
 Operational 50 mph (80 km/h)

Survival 125 mph (200 km/h)

Temperature -50°C to +80°C

Humidity 0 to 100% (Condensing)

Atmosphere Standard Hardware 500 Hrs
 SST Requirements (ASTM B-117)

Solar Radiation 360 BTU/h/ ft²

Shock and Vibration As Encountered during
 Shipping and handling

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 HOUSTON, TX 77024
 OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
 SF40873A

BU #: 814448

CCI-CUMMINGS

3750 SPYROCK ROAD
 LAYTONVILLE, CA 95454

EXISTING 65'-0"
 MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	02/20/24	MAS	PRELIMINARY	HS
0	02/23/24	MAS	FINAL CD	HS



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PROJECT NUMBER:
 24CCTCAM-012

SHEET NUMBER:
 C-5

REVISION:
 0



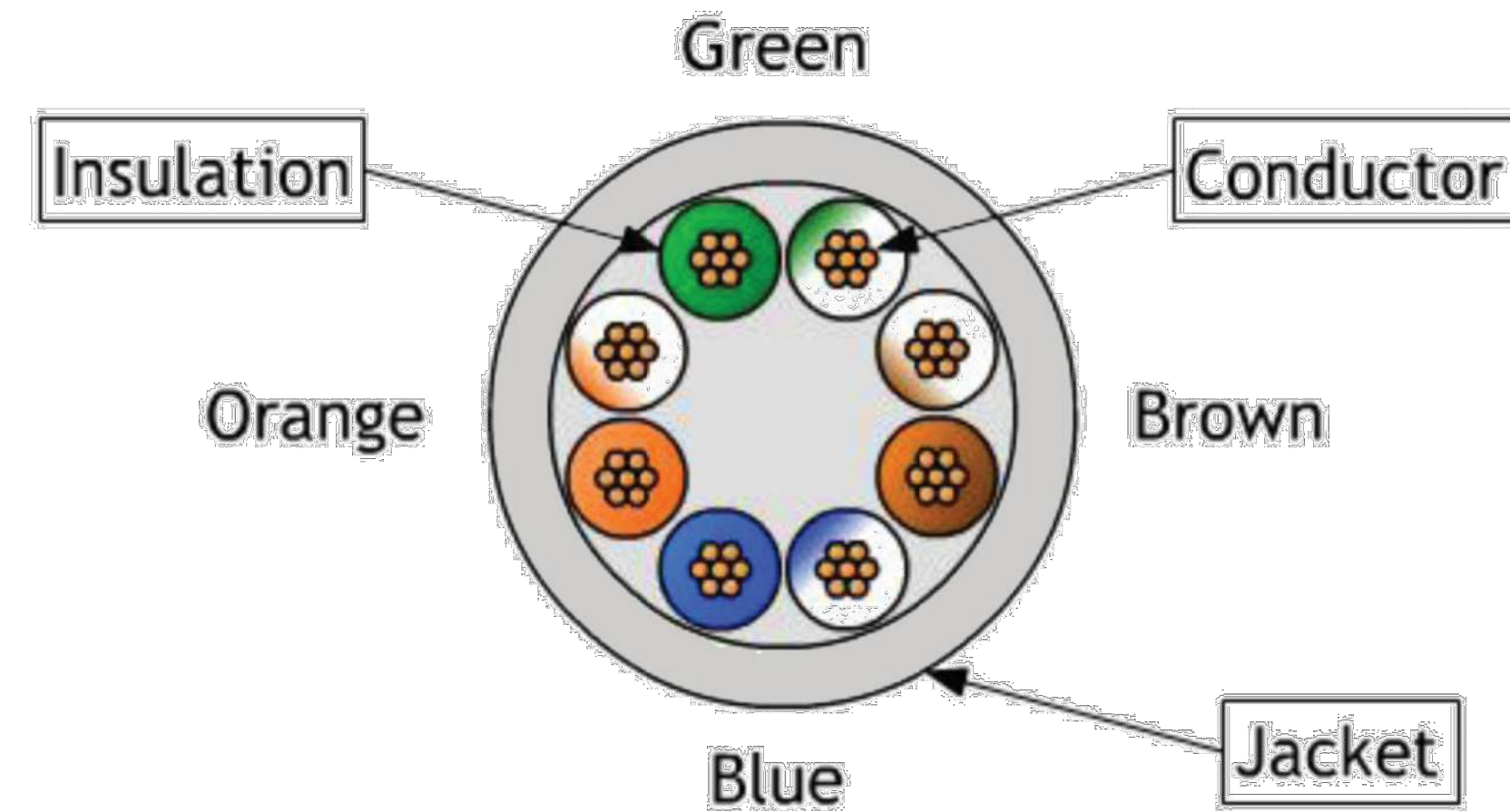
**Specification for Hyper-Data 2000
CAT6 UTP Stranded LSZH Lan Cable**

Spec. No. S901106 Version: B Date: March 25th, 2008

TIA/EIA-568-B.2-1: Patch Cable (Stranded Conductor), 24 AWG x 4P

- 1. Conductor:** Stranded Bare Copper (7 x 32 AWG)
- 2. Insulation :** HDPE (CMI-75E)
Nominal Wall Thickness: 0.178mm
Min. Thickness: 0.153mm
- 3. Color Code:** Pair 1: Blue & White/Blue
Pair 2: Orange & White/Orange
Pair 3: Green & White/Green Pair
4: Brown & White/Brown
- 4. Jacket (Grey):** 75°C LSZH Compound
Nominal Wall Thickness: 0.585mm
Min. Thickness: 0.458mm
Overall Diameter: 5.8mm ± 0.3mm
- 5. Electric Requirements:** (Cable length: 100m)
Characteristic Impedance(Zo): 85~115Ω (1~250 MHz)
DC. Resistance Capacitance Unbalance: 5%
Pair-to-Ground Capacitance Unbalance: 330 pF/100m Max.
Conductor Resistance: 14.00Ω/100m 20⁰ Max.
Mutual Capacitance: 5.6nF/m Max.
Spark Test: 2.5kV
Nominal Velocity of Propagation (NVP): 69%

RoHS Compliant



Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.4	74.3	72.3	538.5	45	20.0	67.8	64.8
10	7.1	59.3	57.3	545.0	45	25.0	47.8	44.8
20	10.2	54.8	52.8	539.9	45	25.0	41.8	38.8
31.25	12.8	51.9	49.9	540.2	45	23.3	37.9	34.9
62.5	18.5	47.4	45.4	540.8	45	20.7	31.9	28.9
100	23.8	44.3	42.3	541.4	45	19.0	27.8	24.8
200	34.8	39.8	37.8	542.5	45	16.4	21.8	18.8
250	39.4	38.3	36.3	543.0	45	15.6	19.8	16.8

DISCLAIMER: This PDF is for information only and R&M Electrical Group Ltd can not be held liable for any information therein.



T-Mobile
1200 CONCORD AVENUE, SUITE 500
CONCORD, CA 94520

CROWN CASTLE
1 PARK PLACE, SUITE 300
DUBLIN, CA 94568

PM&A
P. MARSHALL & ASSOCIATES
6801 PORTWEST DR. STE 100,
HOUSTON, TX 77024
OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
SF40873A
BU #: 814448
CCI-CUMMINGS
3750 SPYROCK ROAD
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EXISTING 65'-0"
MONOPOLE

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0	02/23/24	MAS	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/23/2024
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PROJECT NUMBER:
24CCTCAM-012
SHEET NUMBER: C-6 **REVISION:** 0

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6801 PORTWEST DR. STE 100,
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T-MOBILE SITE NUMBER:
SF40873A

BU #: 814448

CCI-CUMMINGS

**3750 SPYROCK ROAD
LAYTONVILLE, CA 95454**

EXISTING 65'-0"
MONOPOLE

ISSUED FOR:

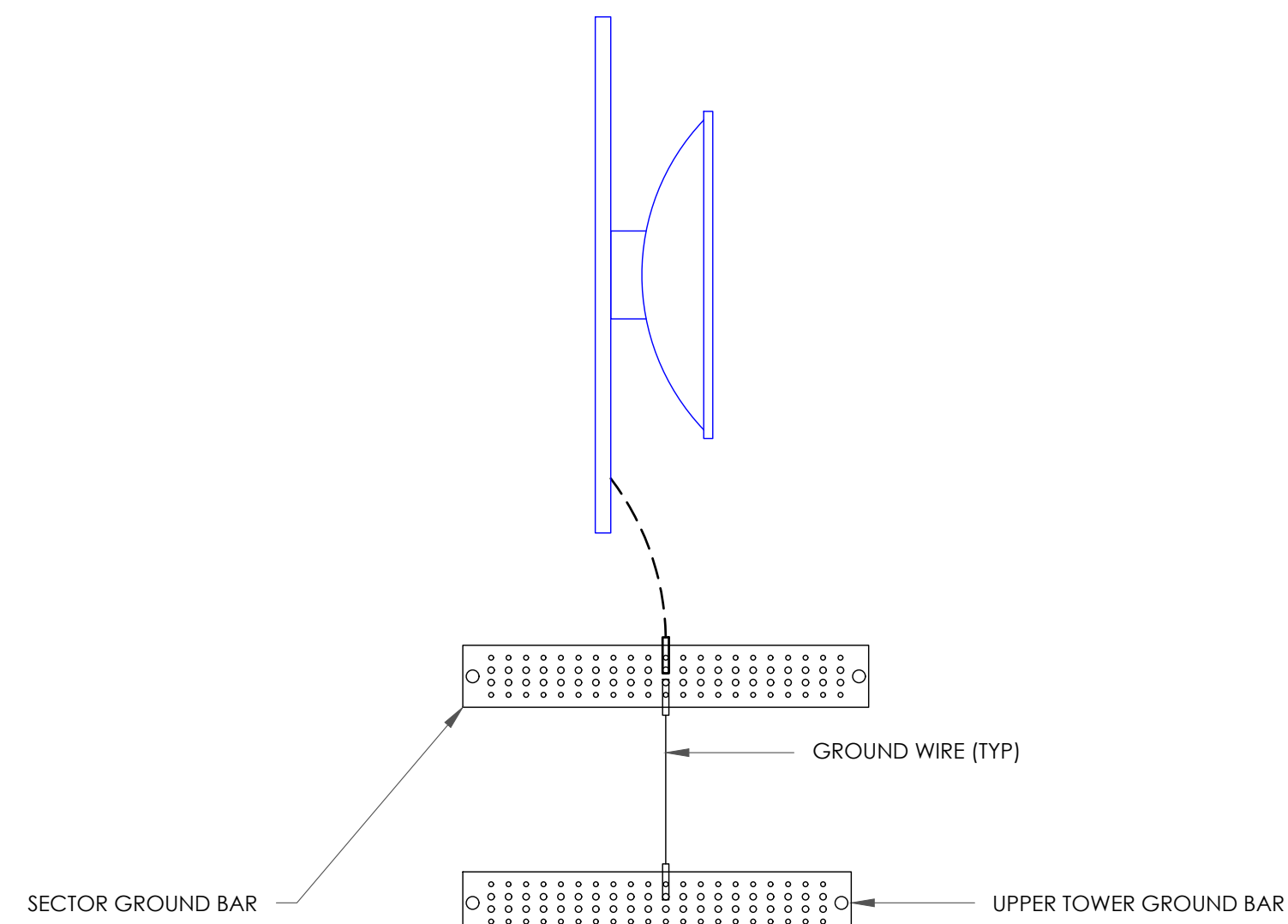
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0	02/23/24	MAS	FINAL CD	HS



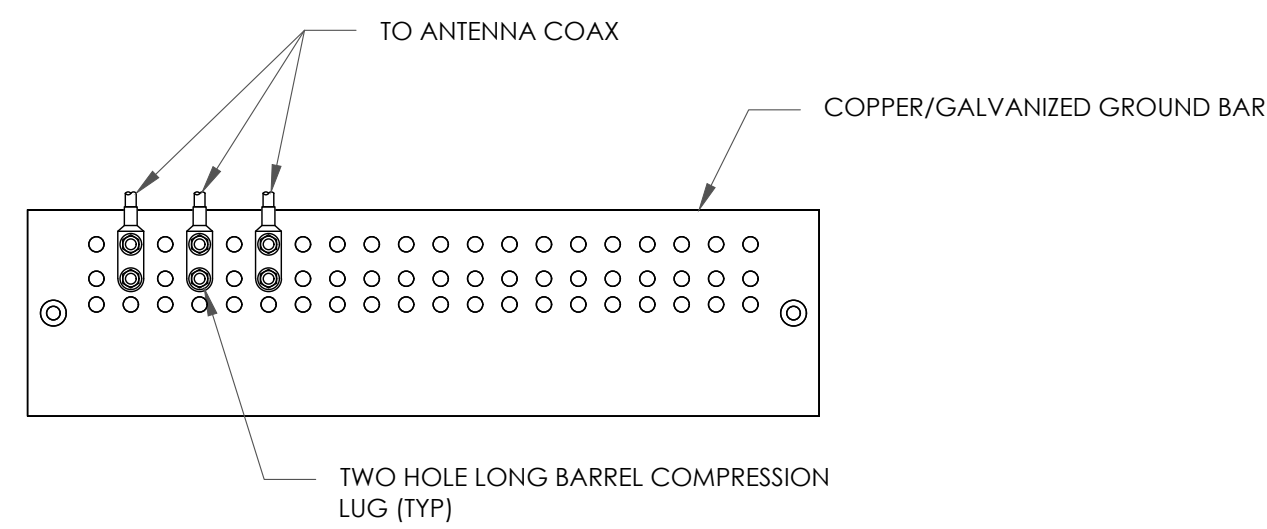
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PROJECT NUMBER:
24CCTCAM-012

SHEET NUMBER: **G-1** REVISION: **0**



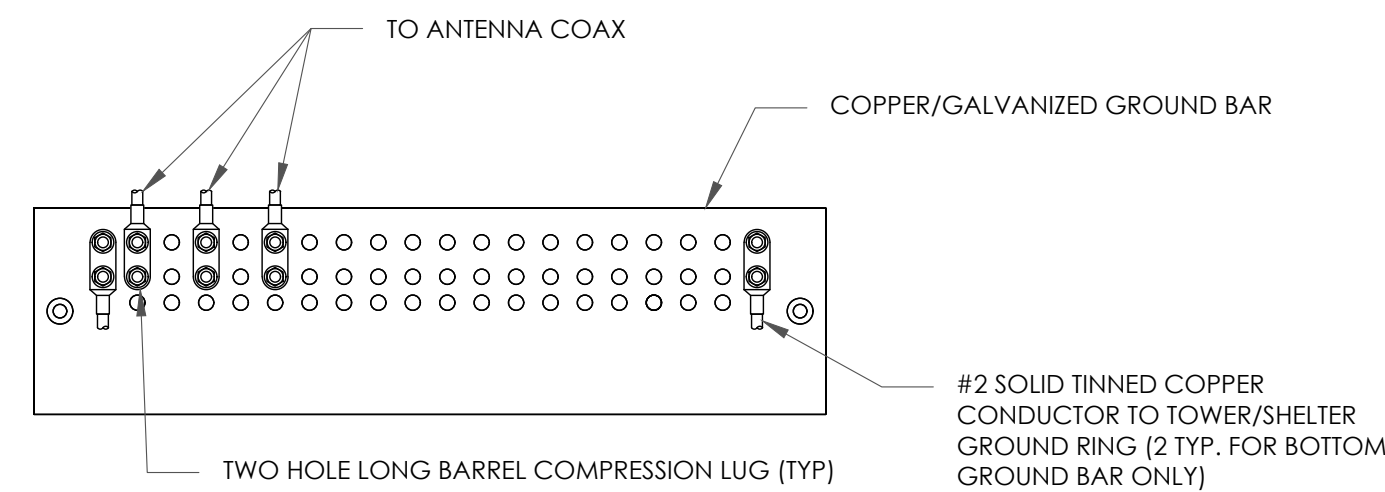
NOTE:
ALL NEW GROUNDS TO BE #6 STRANDED
COPPER WITH GREEN INSULATION UNLESS
NOTED OTHERWISE.



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 MICROWAVE GROUND BAR DETAIL
SCALE: NOT TO SCALE

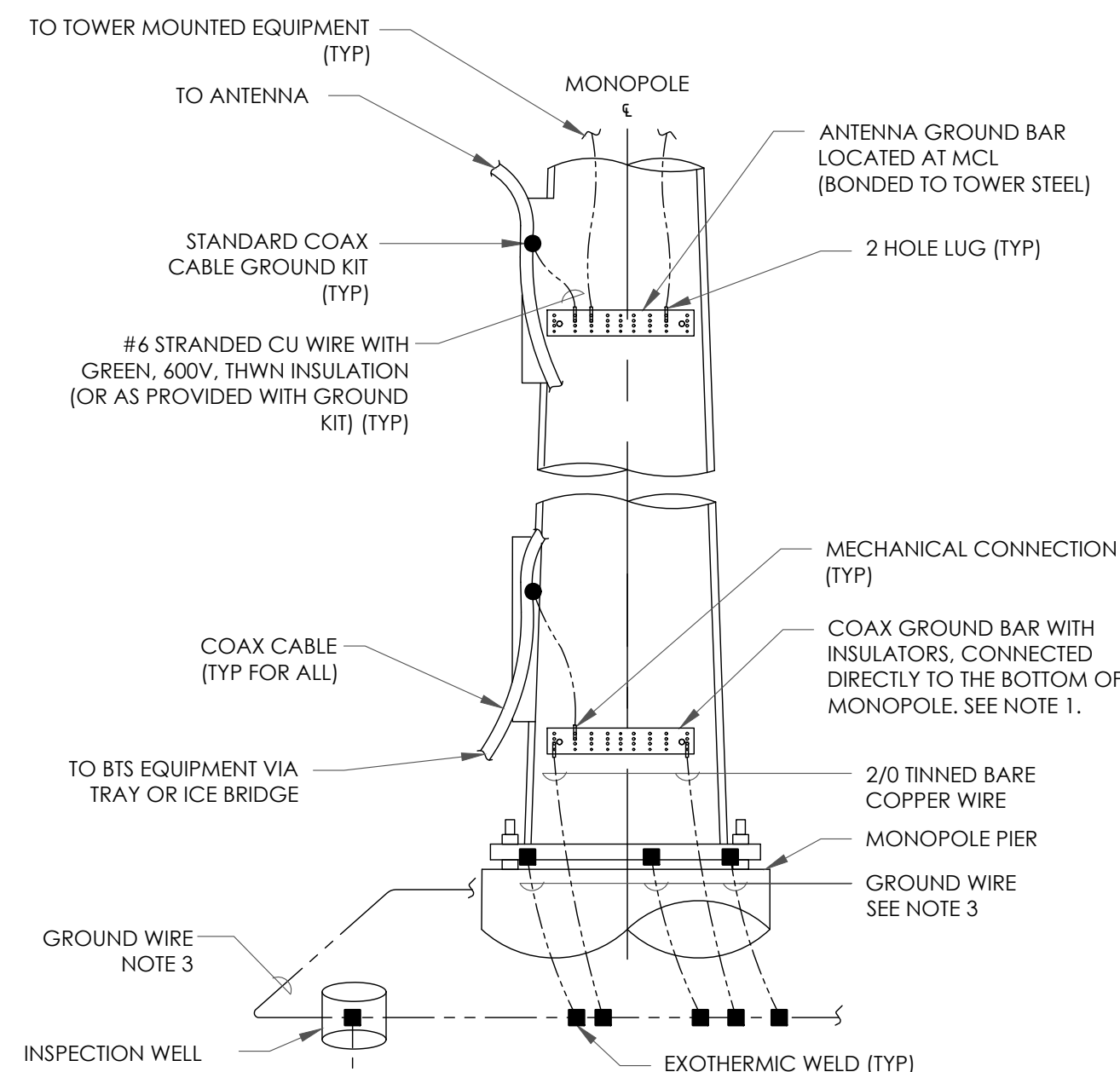


NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER GROUND BAR DETAIL
SCALE: NOT TO SCALE

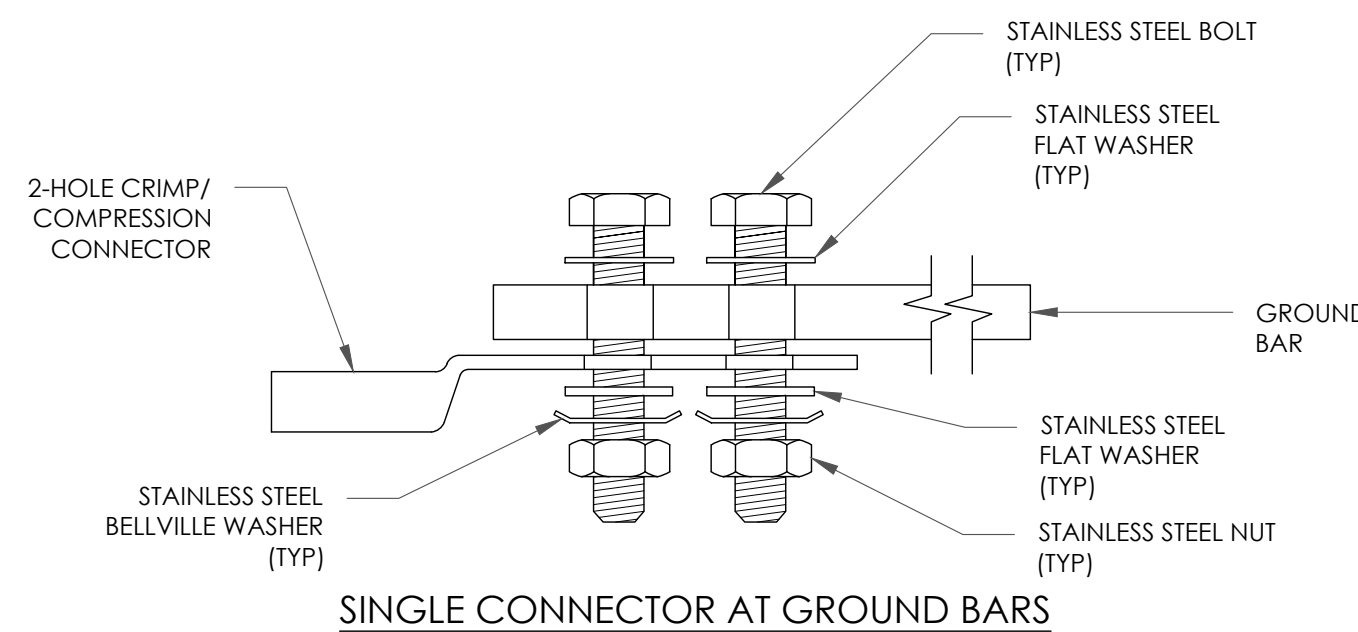
3 NOT USED
SCALE: NOT TO SCALE



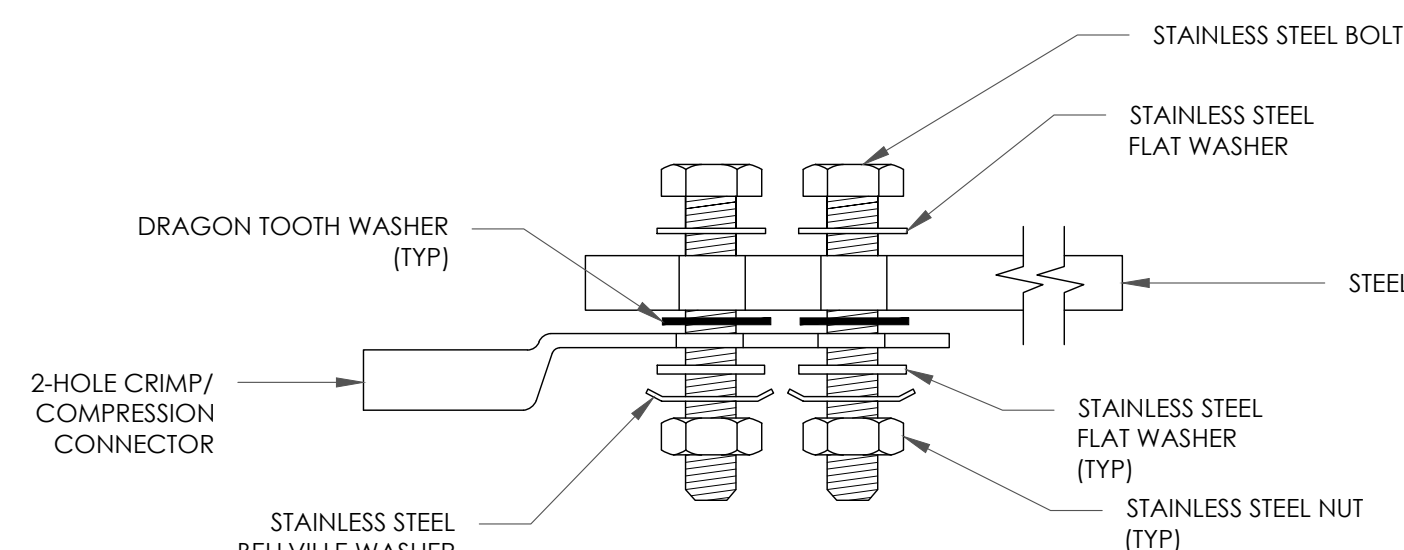
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANS/TIA 222 AND NFPA 780.

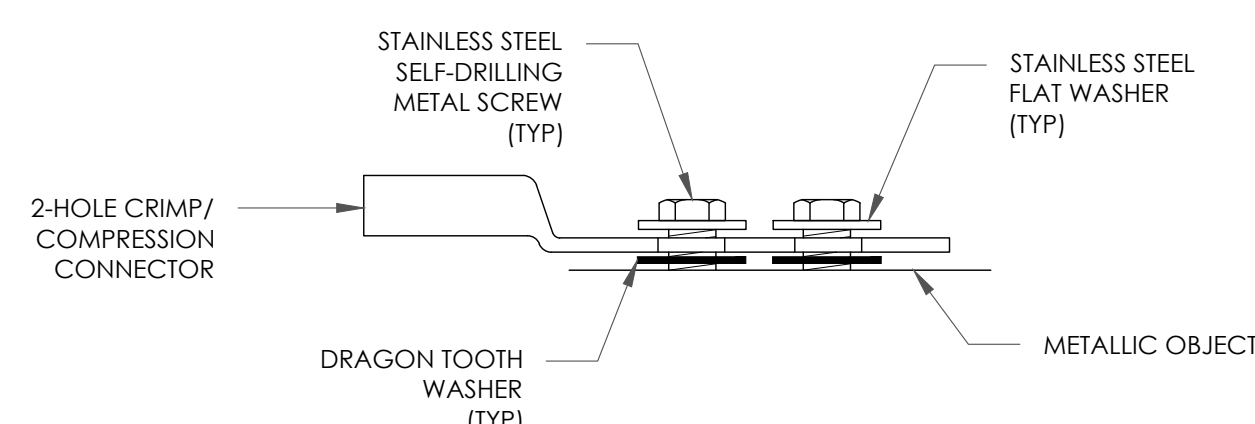
4 TYPICAL MICROWAVE CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

T-Mobile

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CROWN CASTLE

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PM&A

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6801 PORTWEST DR. STE 100,
HOUSTON, TX 77024
OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
SF40873A

BU #: 814448

CCI-CUMMINGS

3750 SPYROCK ROAD
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EXISTING 65'-0"
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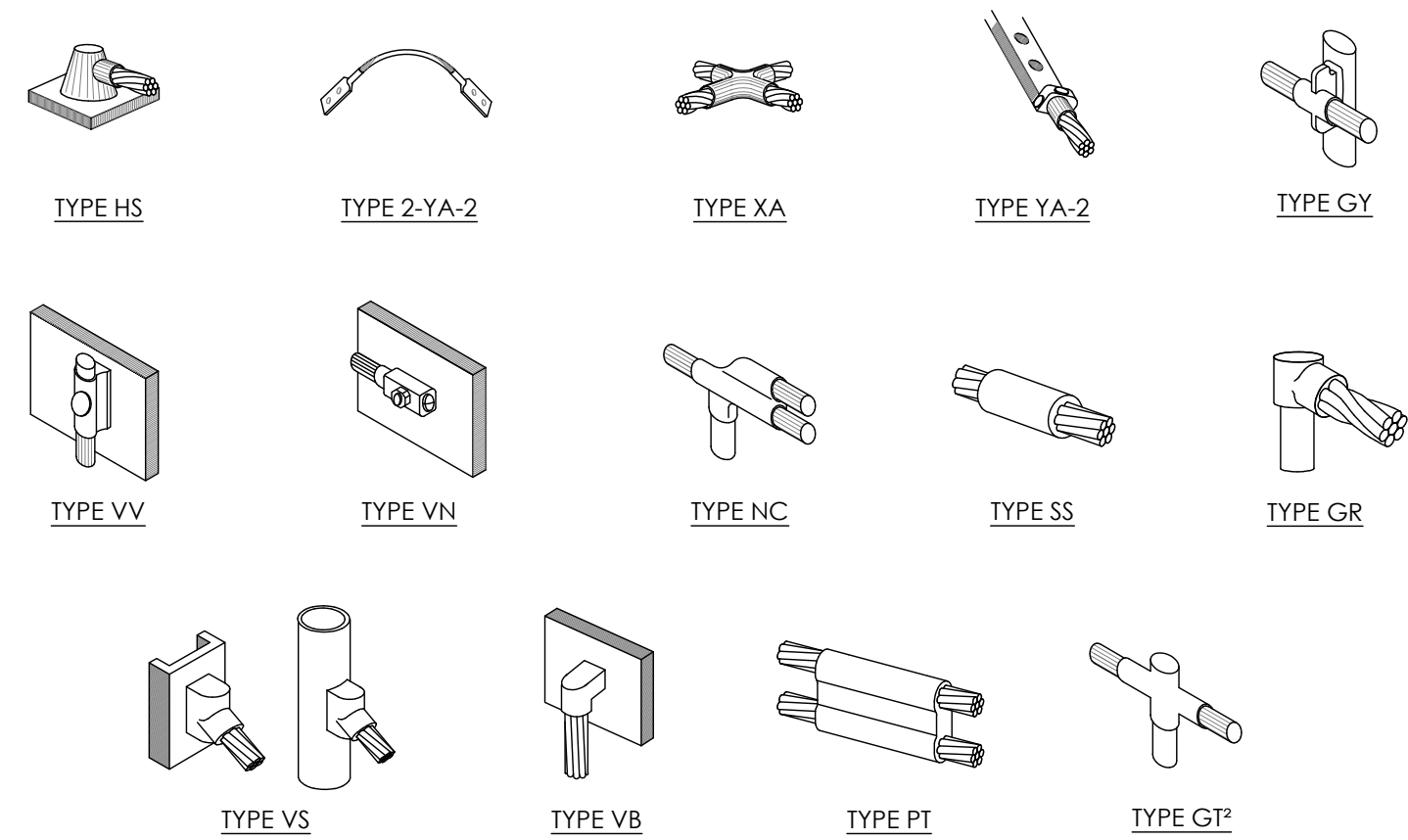
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SHEET NUMBER:

G-2

REVISION:

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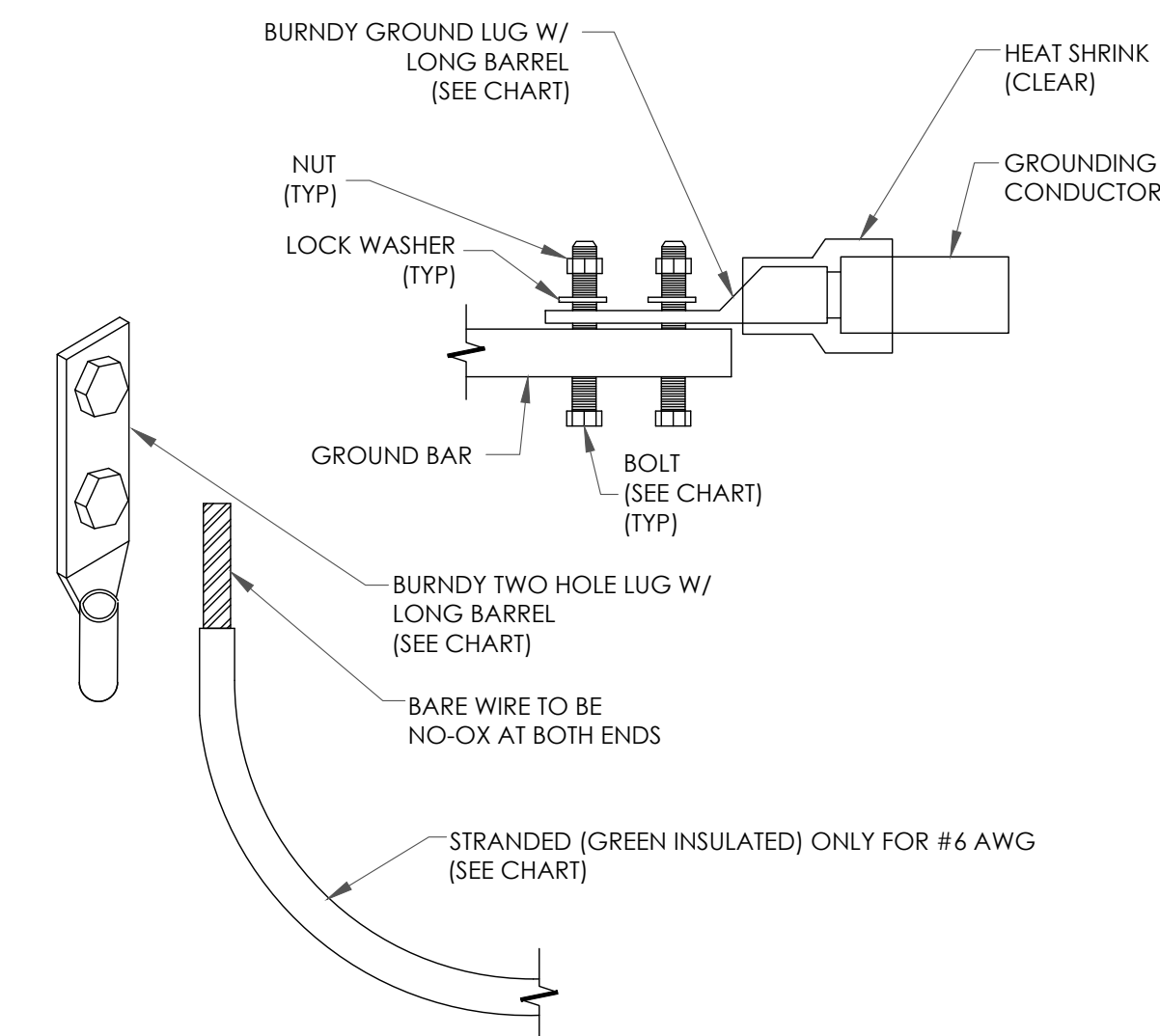


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



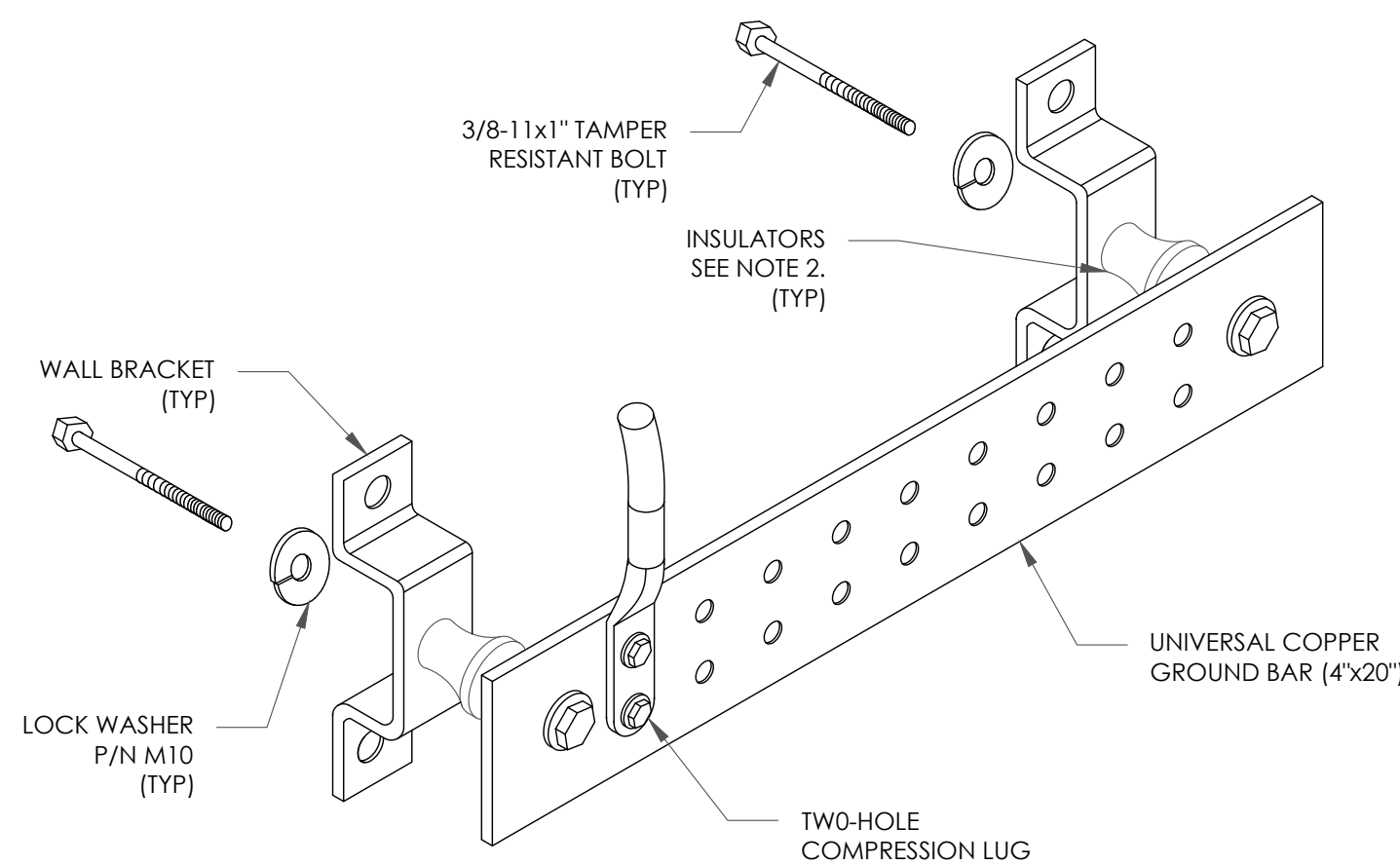
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

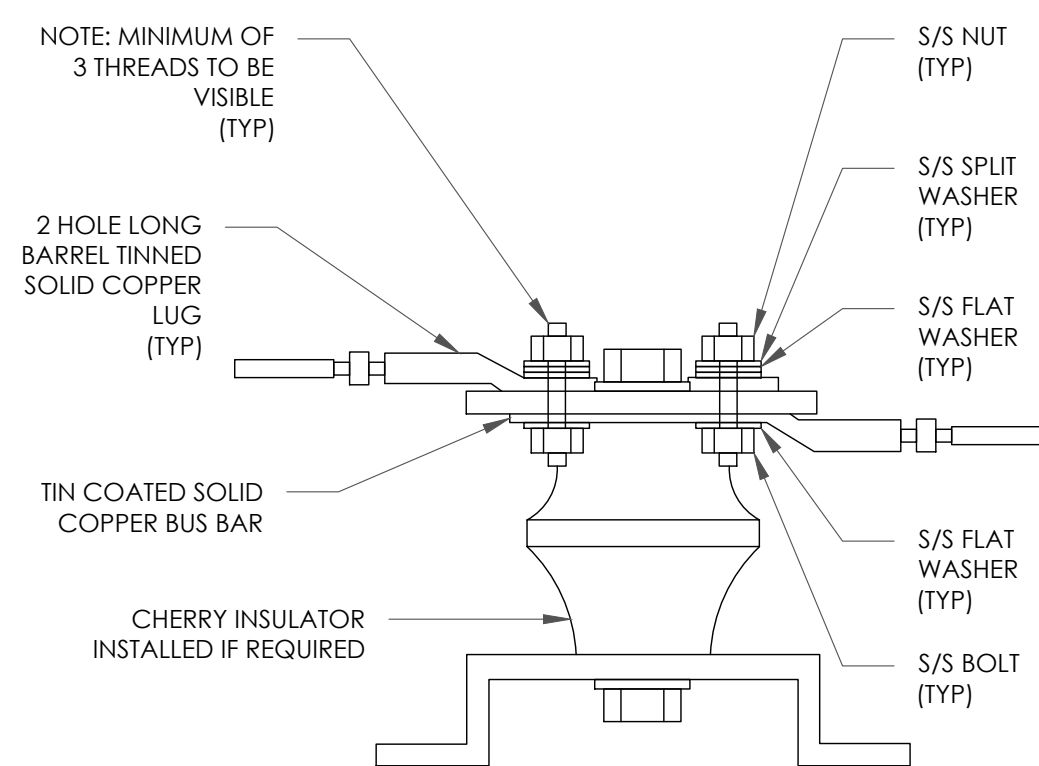
4 NOT USED
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

8 NOT USED
SCALE: NOT TO SCALE

T-Mobile

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3750 SPYROCK ROAD
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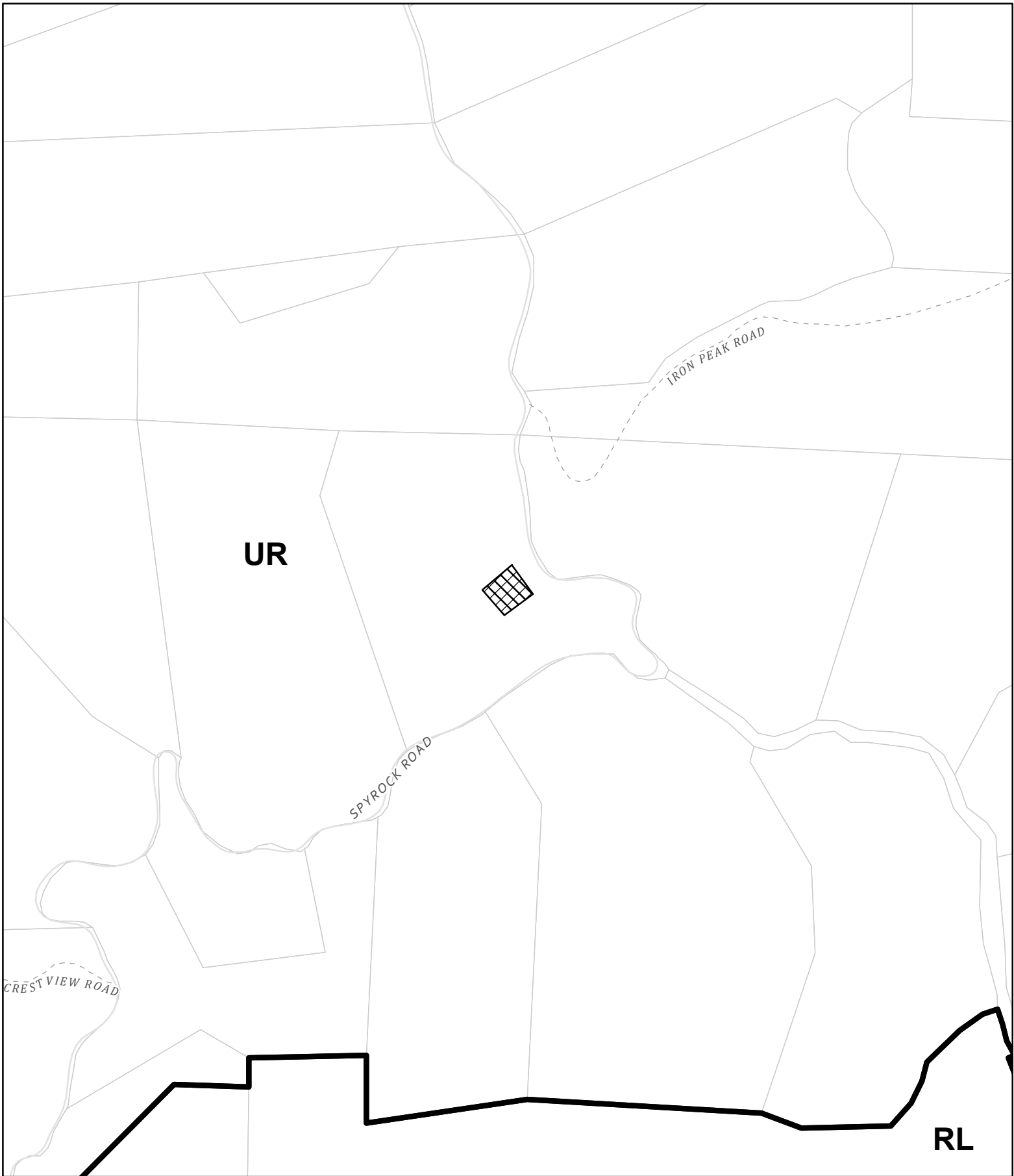


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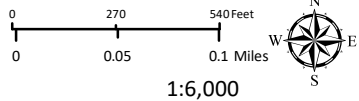
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REVISION:
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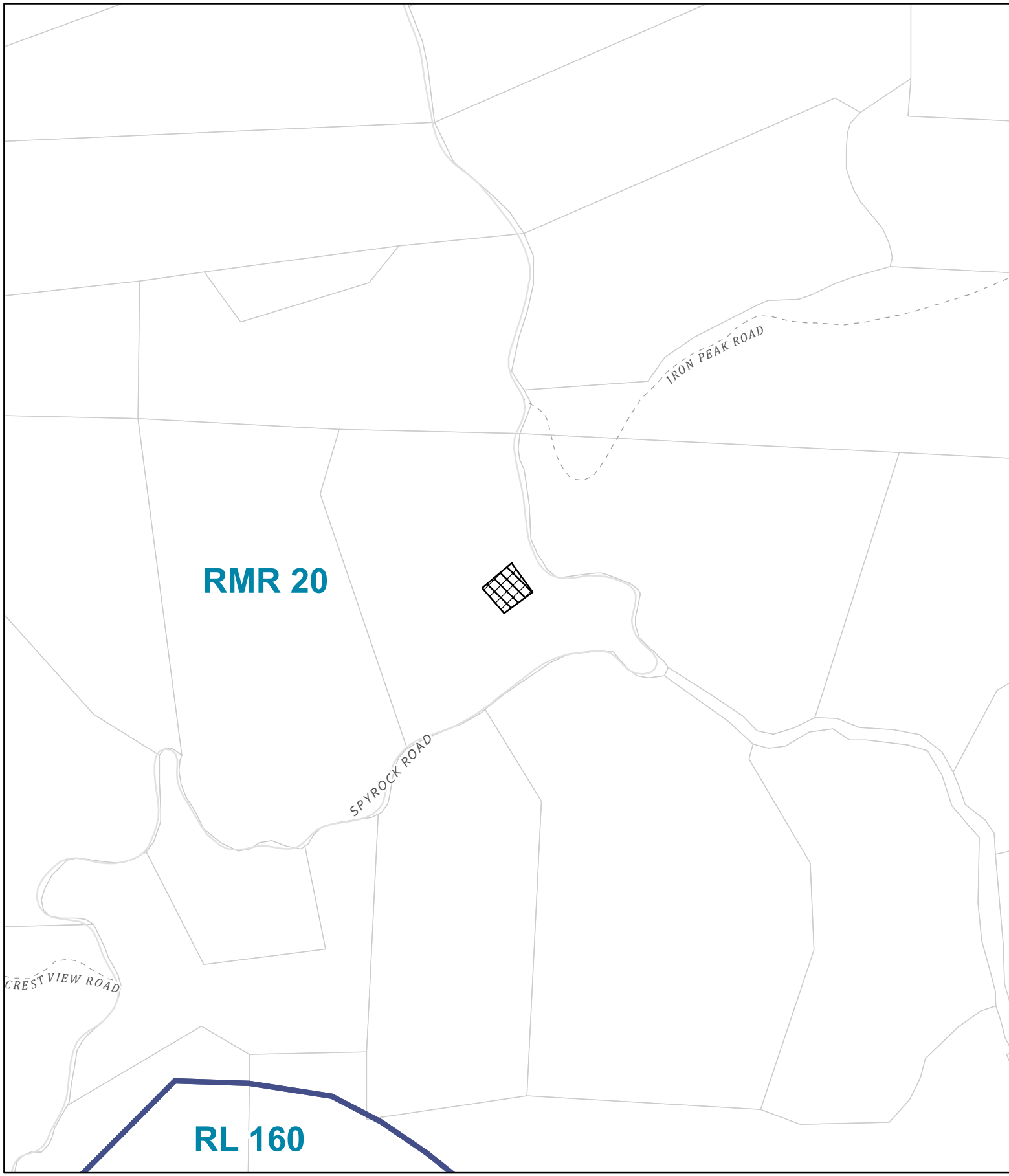
CASE: AP 2024-0015
OWNER: Crown Castle USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

-  Zoning Districts
-  Assessors Parcels
-  Public Roads
-  Private Roads






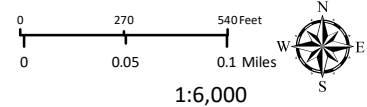
ZONING

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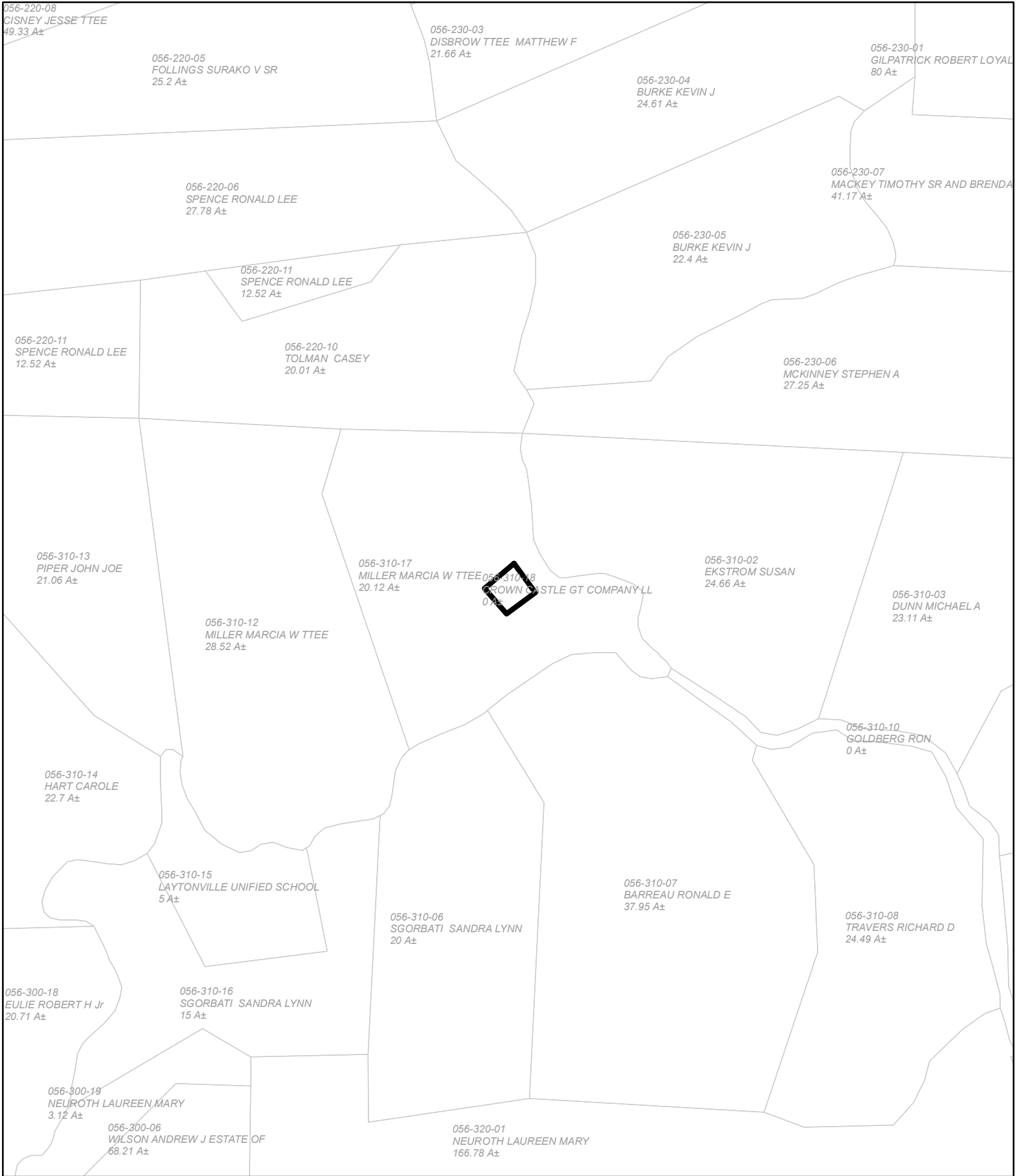
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AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

-  Public Roads
-  Private Roads
-  Assessors Parcels




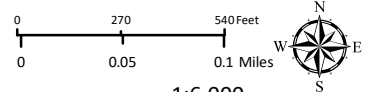
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GENERAL PLAN

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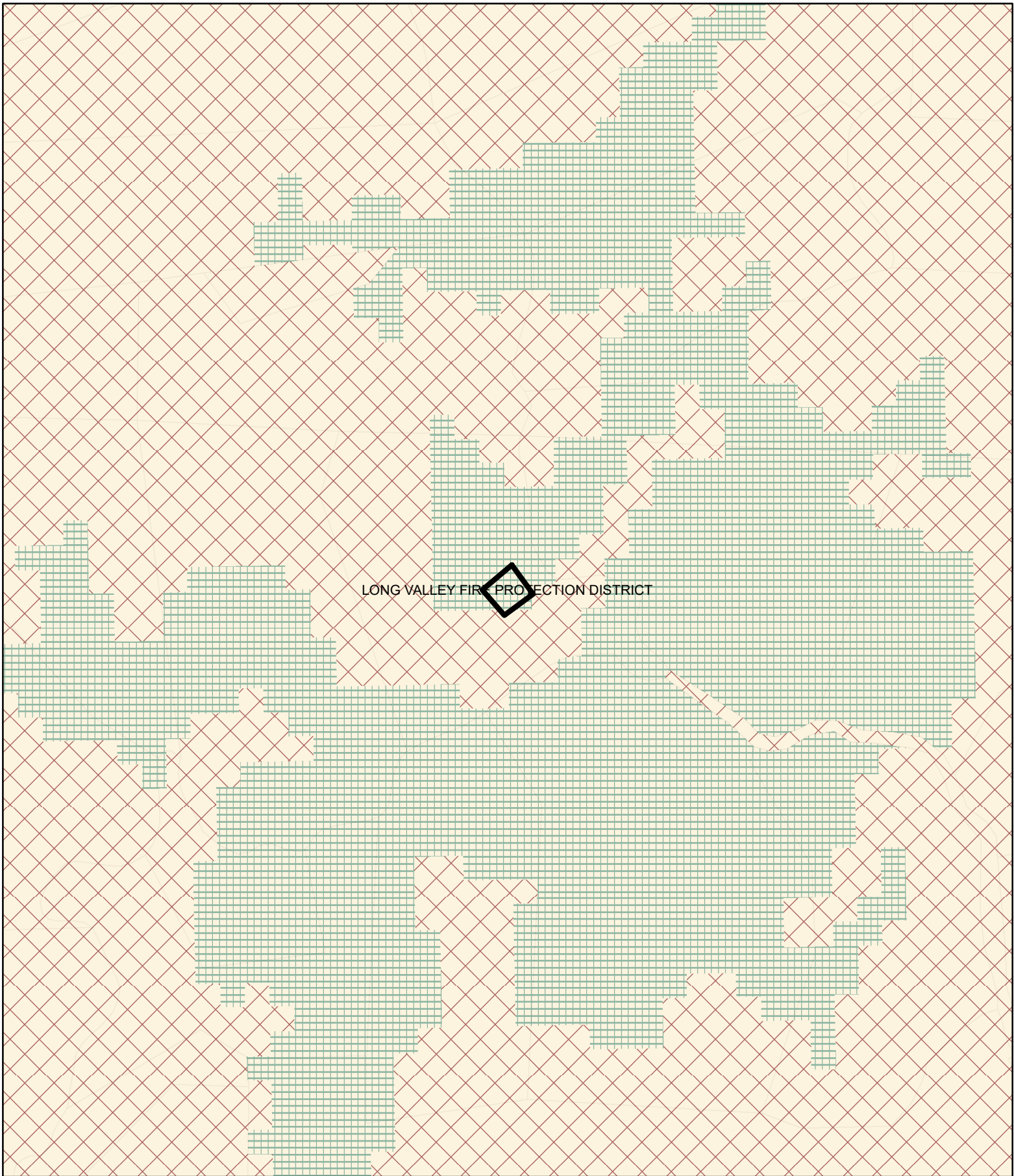
 Assessor's Parcels



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ADJACENT PARCELS

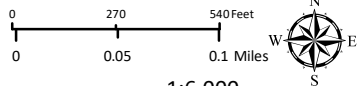
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LONG VALLEY FIRE PROTECTION DISTRICT

CASE: AP 2024-0015
OWNER: Crown Castle USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

-  High Fire Hazard
-  Moderate Fire Hazard
-  County Fire Districts
-  Assessors Parcels

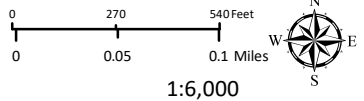
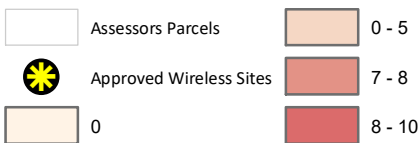


1:6,000
FIRE HAZARD ZONES & RESPONSIBILITY AREAS
 STATE RESPONSIBILITY AREA

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OWNER: Crown Castle USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville



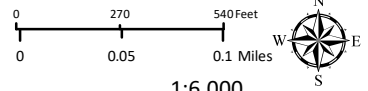
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LANDSLIDE HAZARDS

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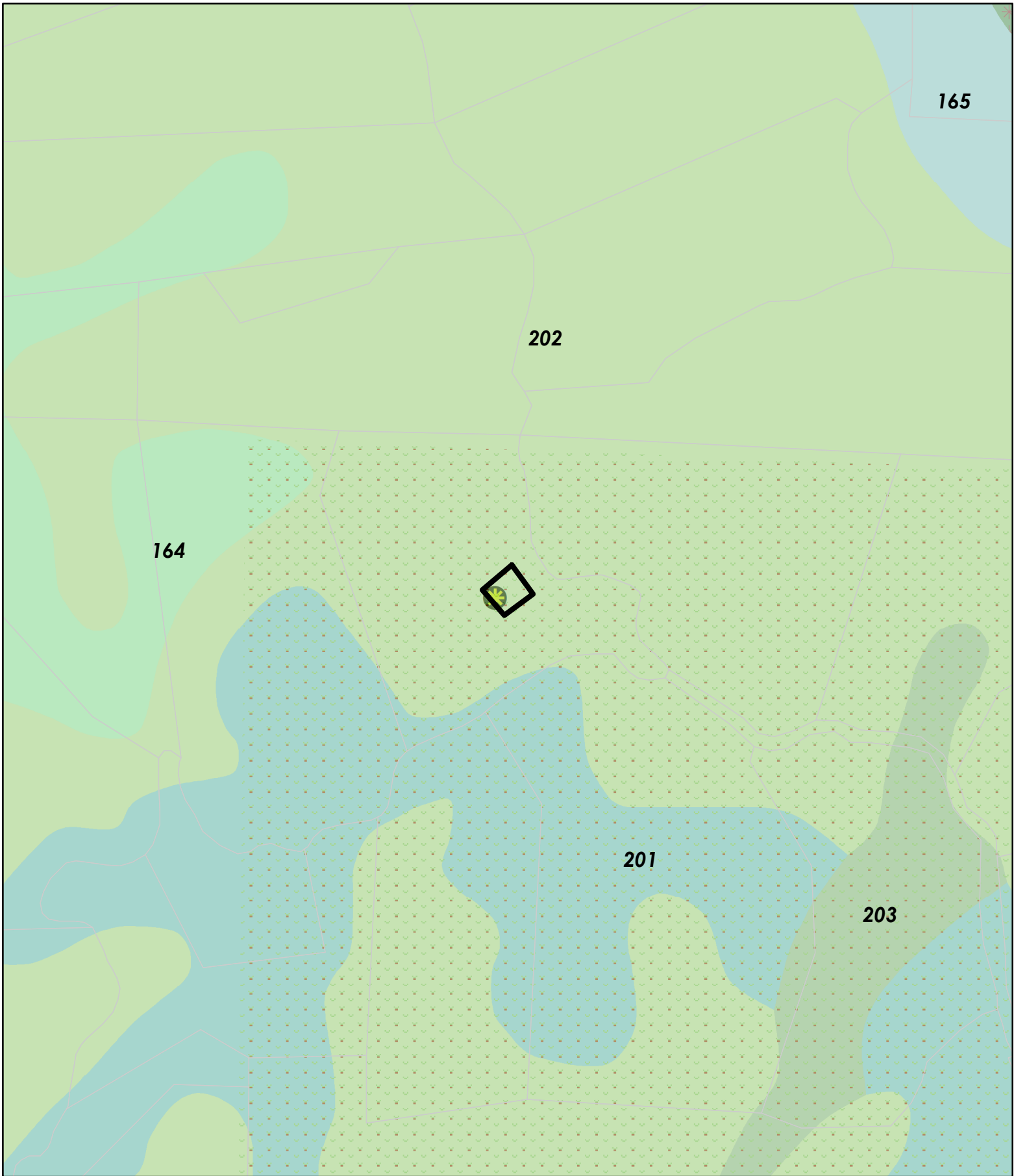


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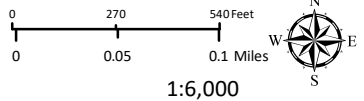
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ESTIMATED SLOPE

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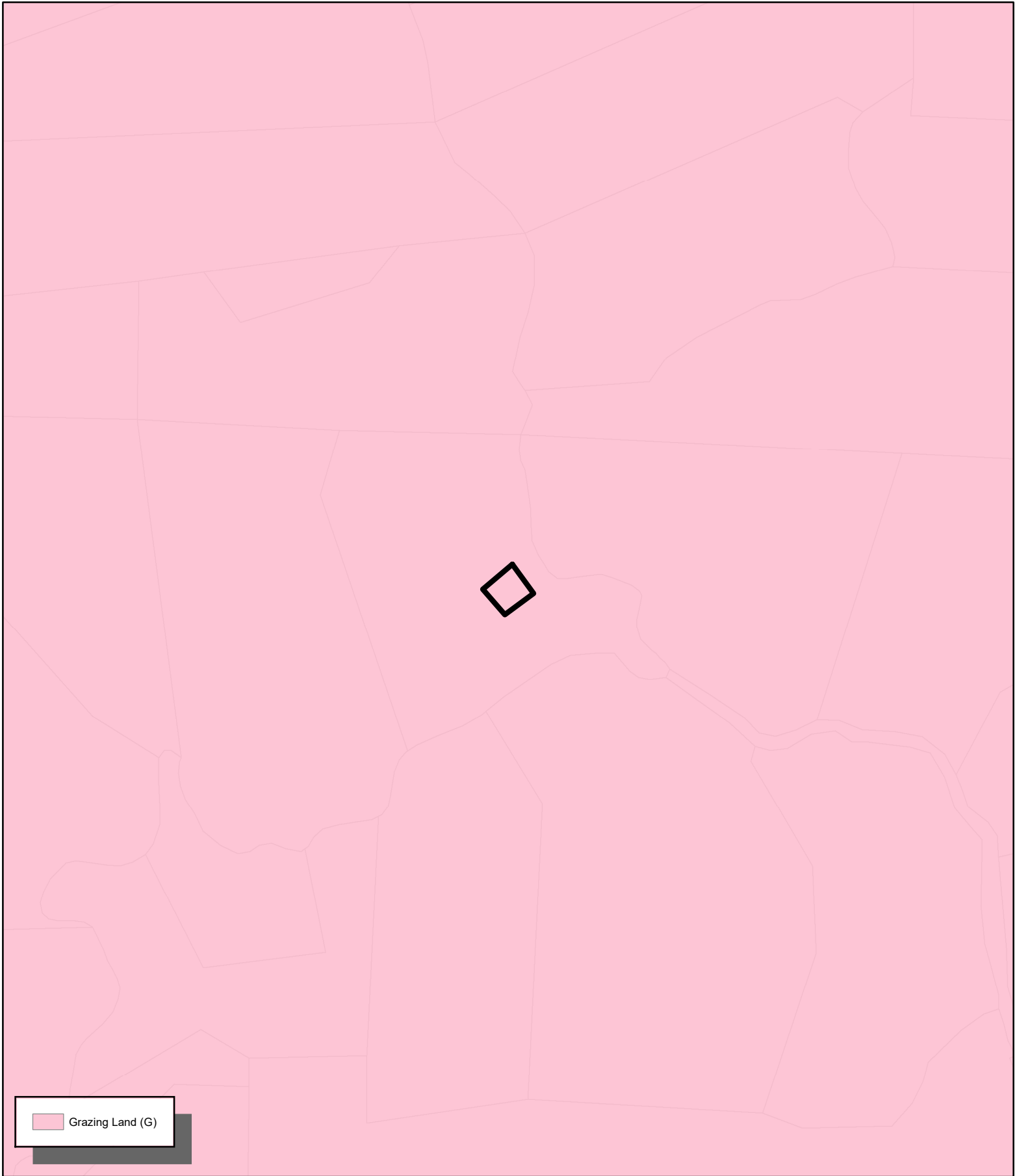
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APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

-  Assessors Parcels
-  Naturally Occurring Asbestos
-  Approved Wireless Sites




WESTERN SOIL CLASSIFICATIONS

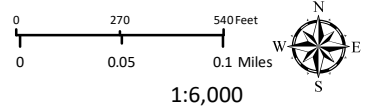
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 Grazing Land (G)

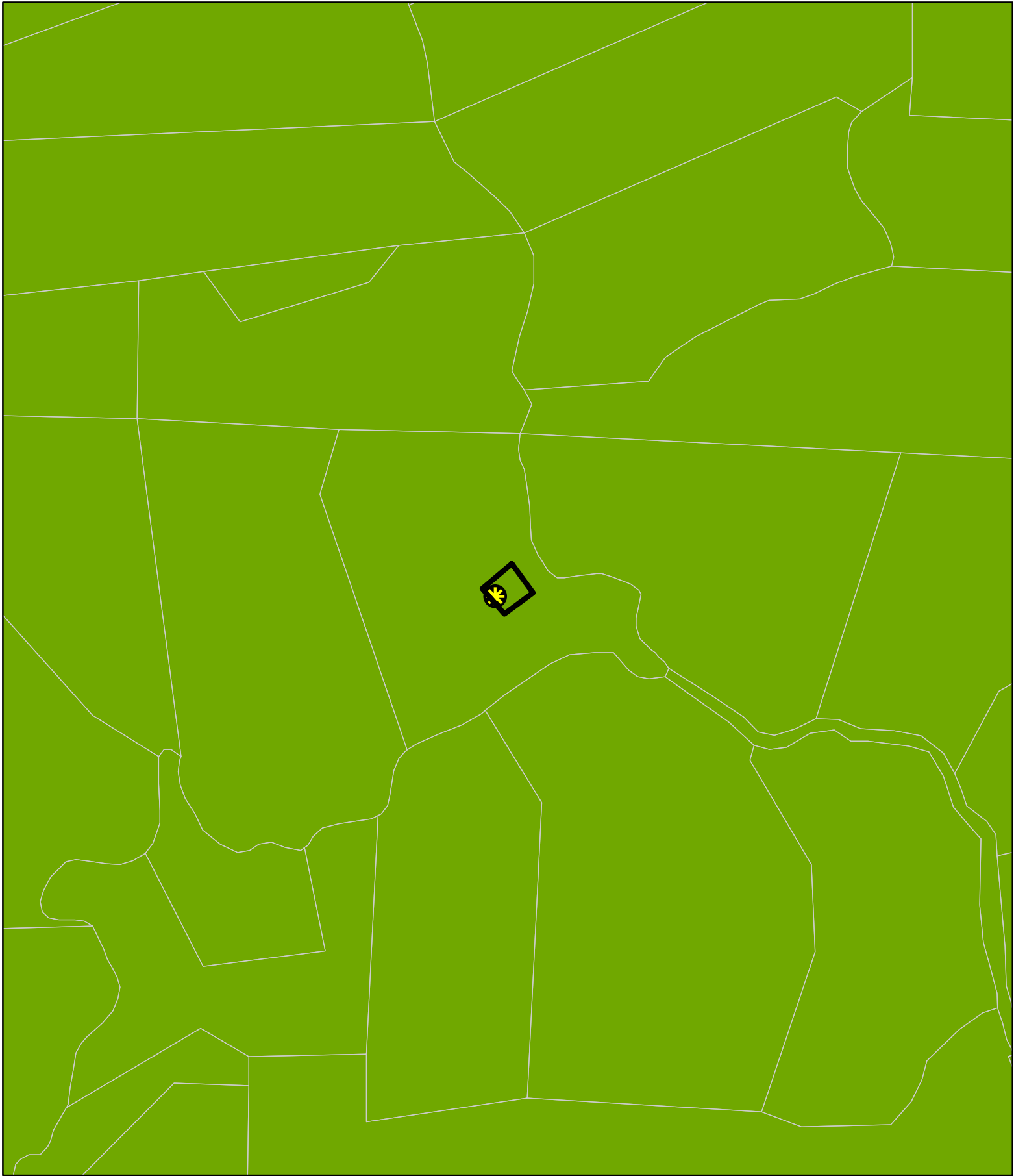
 Assessors Parcels

CASE: AP 2024-0015
OWNER: Crown Castle USA
APN: 056-310-18
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AGENT: T-Mobile West LLC
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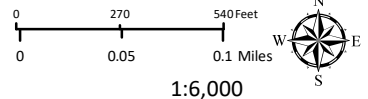
FARMLAND CLASSIFICATIONS

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APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd, Laytonville

-  Assessors Parcels
-  Approved Wireless Sites
-  Laytonville MAC



LAYTONVILLE MUNICIPAL ADVISORY COUNCILS

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8020 Katy Fwy
Houston, TX 77024

Phone: (678) 366-1259
www.crowncastle.com

Project Data Sheet

Business Unit (BU)	814448
Application/Order Number	661913
Crown Castle Site Name	CUMMINGS
Customer Site Number	SF40873A
Site Address	3750 Spyrock Road
Site City, State, Zip	Laytonville, CA 95454
Parcel Tax ID	056-310-18-00
Applicant / Agent	T-Mobile West LLC by Crown Castle USA Inc.
Agent Address	8020 Katy Fwy
Agent phone number	(678) 366-1259
Carrier	T-Mobile
Scope of work	Add or replace antennas and ancillary equipment as per plans for an existing carrier on an existing wireless communication facility.
Property Owner	CROWN CASTLE USA INC
Property Owner Address	POST OFFICE BOX 203112, HOUSTON, TX 77216-3112
Structure Type	MONOPOLE
Structure Height	65 FT
Antenna Equipment Height	40
Size of Compound Sq. Ft.	2,792 sq ft
Latitude	39° 48' 57.81"
Longitude	-123° 30' 33.89"
Zoning Jurisdiction	COUNTY OF MENDOCINO, CA
Zoning Jurisdiction Address	860 NORTH BUSH STREET, UKIAH, CA 95482
Permitting Jurisdiction	COUNTY OF MENDOCINO, CA
Permitting Jurisdiction Address	860 NORTH BUSH STREET, UKIAH, CA 95482



8020 Katy Fwy
Houston, TX 77024

Phone: (678) 366-1259
www.crowncastle.com

March 1, 2024

COUNTY OF MENDOCINO, CA
Dept of Planning and Building Services
860 NORTH BUSH STREET
UKIAH, CA 95482

Via Electronic Delivery

*****NOTICE OF ELIGIBLE FACILITIES REQUEST*****

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409
Notice of Request for Approval of Emergency Standby Generator – CA AB 2421
Site Address: 3750 Spyrock Road, Laytonville, CA 95454
Crown Site Number: 814448 / Crown Site Name: CUMMINGS
Customer Site Number: SF40873A / Application Number: 661913

Attention Reviewing Parties:

On behalf of T-Mobile West LLC (“T-Mobile” or “Applicant”), Crown Castle USA Inc. (“Crown Castle”) is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant’s equipment as an eligible facilities request for a minor modification under Section 6409¹ and the rules of the Federal Communications Commission (“FCC”).²

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. Under Section 6409, to toll the review period, if the reviewing authority determines that the application is incomplete, it must provide written notice to the applicant within 30 days, which clearly and specifically delineates all missing documents or information reasonably related to whether the request meets the federal requirements.³ Additionally, if a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 30-day and 60-day deadlines begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law⁴.

To further secure public safety and welfare during times of fire emergencies, California AB 2421 provides for local administrative non-discretionary review of emergency standby generators as a permitted use, which a local agency shall review on an administrative, nondiscretionary basis. This law further allows applicants to concurrently seek landowner

¹ Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) (codified at 47 U.S.C. § 1455).

² *Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies*, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and *Implementation of State & Local Governments’ Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250 (June 10, 2020).

³ See 47 CFR § 1.6100 (c)(3). ⁴ See 2020 Upgrade Order at paragraph 16.



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consent, and states that such emergency standby generator application is deemed approved if not ruled upon within (60) days after a complete application is received by the local jurisdiction, excluding tolling. As indicated in the attached checklist, this application qualifies for review under this important law as well.

Please note that with the submission of this letter and enclosed items, the thirty and sixty-day review periods have started. Based on this filing, the deadline for written notice of incomplete application is March 31, 2024, and the deadline for issuance of approval is April 30, 2024.



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The proposed scope of work for this project includes:

The installation of a backup power supply as per plans for an existing wireless carrier at an existing wireless communication facility.

At the end of this letter is a checklist of the applicable substantial change criteria under Section 6409. Additionally, please find enclosed the following information in support of this request:

- (1) ;
- (2) Construction Drawings;
- (3) Structural Analysis; and
- (4) Section 6409 Substantial Change Checklist and CA AB 2421 Checklist.

As these documents indicate, this modification is an “eligible facilities request” as defined in the FCC’s rules to which the 60-day deadline for approval applies. Further, the modification is a permitted under California AB 2421 that for which approval is administrative and nondiscretionary. Accordingly, Applicant requests all authorization necessary for this proposed modification.

Our goal is to work with you to obtain approvals earlier than the deadline. We will respond promptly to any request for related information you may have in connection with this request. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will improve wireless telecommunication services in your community using collocation on existing infrastructure. If you have any questions, please do not hesitate to contact me.

Regards,

Victoria Chhun

Victoria Chhun
Permitting Specialist
Crown Castle, Agent for Applicant
(678) 366-1259
Victoria.Chhun@crowncastle.com



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**Section 6409 Substantial Change Checklist
Towers Outside of the Public Right of Way**

The Federal Communications Commission has determined that a modification substantially changes the physical dimension of a wireless tower or base station under 47 U.S.C. § 1455(a) if it meets one of six enumerated criteria under 47 C.F.R. § 1.6100.

Criteria for Towers Outside the Public Rights of Way

YES/NO NO	Does the modification increase the height of the tower by more than the greater of: (a) 10% (b) or, the height of an additional antenna array plus separation of up to 20 feet from the top of the nearest existing antenna?
YES/NO NO	Does the modification add an appurtenance to the body of the tower that would protrude from the edge of the tower more than 20 feet or more than the width of the tower structure at the level of the appurtenance, whichever is greater?
YES/NO NO	Does the modification involve the installation of more than the standard number of new equipment cabinets for the technology involved or add more than four new equipment cabinets?
YES/NO NO	Does the modification entail any excavation or deployment outside the current site by more than 30 feet in any direction, not including any access or utility easements?
YES/NO NO	Does the modification defeat the concealment elements of the eligible support structure?
YES/NO NO	Does the modification violate conditions associated with the siting approval with the prior approval the tower or base station other than as specified in 47 C.F.R. § 1.6100(c)(7)(i) – (iv)?

If all questions in the above section are answered “NO,” then the modification does not constitute a substantial change to the existing tower under 47 C.F.R. § 1.6100.

California AB 2421 Streamlined Permitting of Generators

YES/NO NO	Is the proposed generator rated above 50 horsepower?
YES/NO NO	Does the proposed generator have a double-wall storage tank that exceeds 300 gallons?
YES/NO NO	Is the proposed generator located more than 100 feet from the physical structure of the macro cell tower or base station?
YES/NO NO	Are the physical dimensions of the emergency standby generator and storage tank cumulatively larger than 250 cubic feet in volume?

If all questions in the above section are answered “NO”, then the generator project is entitled to streamlined permitting under CA AB 2421.



PLANNING & BUILDING SERVICES

Office Use Only box with fields for Case No, Date Filed, Fee, Receipt No, and Received By.

APPLICATION FORM

APPLICANT:

Name: Victoria Chhun ON BEHALF OF T-Mobile West Phone: 678-366-1259
Mailing Address: 8020 Katy Fwy
City: Houston State/Zip: TX/77024 Email: VICTORIA.CHHUN@CROWNCastle.COM

PROPERTY OWNER:

Name: CROWN CASTLE USA INC Phone: 678-366-1259
Mailing Address: POST OFFICE BOX 203112
City: HOUSTON State/Zip: TX/ 77216 Email:

AGENT:

Name: Phone:
Mailing Address:
City: State/Zip: Email:

ASSESSOR'S PARCEL NUMBER/S: 056-310-18-00

TYPE OF APPLICATION:

- Administrative Permit (checked)
Agricultural Preserve: New Contract
Agricultural Preserve: Cancellation
Agricultural Preserve: Rescind & ReEnter
Airport Land Use
Development Review
Exception
Flood Hazard Development Permit
General Plan Amendment
Land Division - Minor
Land Division - Major
Land Division - Parcel
Land Division - Re-Subdivision
Modification of Conditions
Reversion to Acreage
Rezoning
Use Permit - Cottage
Use Permit - Minor
Use Permit - Major
Use Permit - Modification
Variance
Other

I certify that the information submitted with this application is true and accurate.

Signature of Applicant/Agent: [Signature] Date: 03/01/2024
Signature of Owner: [Signature] Date: 03/01/2024

SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Department of Planning and Building Services and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project please indicate "Not applicable" or "N/A".

THE PROJECT

1. Describe your project. Include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc. If the proposal is for cancellation of a Williamson Act contract, please specify a proposed alternative use for the land.

TOWER SCOPE OF WORK: · INSTALL (1) MICROWAVE · INSTALL (1) MW CABLE: (1) 1/4" FIBER CABLE

2. Structures/Lot Coverage	NO. OF UNITS		SQUARE FOOTAGE		
	EXISTING	PROPOSED	EXISTING	PROPOSED	TOTAL
<input type="checkbox"/> Single Family <input type="checkbox"/> Mobile Home <input type="checkbox"/> Duplex <input type="checkbox"/> Multifamily <input type="checkbox"/> Other: <input checked="" type="checkbox"/> Other:					
GRAND TOTAL (Equal to gross area of Parcel):					

3. Is the project commercial, industrial, or institutional? If yes, complete item 3. If no, skip to item 4.

Estimated No. of Employees per shift: na

Estimated No. of shifts per day: na

Type of loading facilities proposed: na

4. Will the project be phased? (Work being done over separate periods of time)

NO **YES** If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads?

NO **YES** If yes, explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?

NO **YES** If yes, explain:

7. How much off-street parking will be provided?

	Number	Size
No. of covered spaces:	<u>NA</u>	<u> </u>
No. of uncovered spaces:	<u>NA</u>	<u> </u>
No. of standard spaces:	<u>NA</u>	<u> </u>
No. of accessible spaces:	<u>NA</u>	<u> </u>
Existing no. of spaces:	<u>NA</u>	<u> </u>
Proposed additional spaces:	<u>NA</u>	<u> </u>
Total:	<u>NA</u>	<u> </u>

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.

NO **YES** Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

9. For grading or road construction, complete the following:

Amount of cut: NA cubic yards
Amount of fill: NA cubic yards
Max. height of fill slope: NA feet
Max. height of cut slope: NA feet
Amount of import/export: NA cubic yards
Location of borrow or disposal site: NA

10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

NO YES

11. Will the proposed development convert land currently or previously used for agriculture to another use?

NO YES

12. Will the development provide public or private recreation opportunities?

NO YES If yes, explain how:

NA

13. Is the proposed development visible from State Route 1 or other scenic route?

NO YES

14. Is the proposed development visible from a park, beach or other recreational area?

NO YES

15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking: NO YES

Filling: NO YES

Dredging: NO YES

Structures: Open Coastal Waters Wetlands Estuaries Lakes

If so, what is the amount of material to be dredged/filled?: _____ cubic yards

Location of dredged material disposal site?: _____

Has a U.S. Army Corps of Engineers permit been applied for? NO YES

16. Will there be any exterior lighting?

NO YES If yes, describe below and identify the location of all exterior lighting on the plot and building plans.

17. Utilities will be supplied to the site as follows:

Electricity: Utility Company (service exists to parcel)

Utility Company (requires extension of service to site): _____ feet _____ miles

On Site Generation – Specify:

Gas: Utility Company/Tank

On Site Generation – Specify:

None

Telephone: NO YES

18. What will be the method of sewage disposal?

- Community Sewage System (specify supplier): _____
- Septic Tank
- Other (specify): _____

19. What will be the domestic water source:

- Community Water System (specify supplier): _____
- Well
- Spring
- Other (specify): _____

20. Are there any associated projects and/or adjacent properties under your ownership?

- NO** **YES** If yes, list below (Assessor's Parcel Number, address, etc.)

21. List and describe any other related permits and other public approval required for this project, including those required by other County departments, city, regional, State and Federal agencies:

EXISTING CELL TOWER

22. Describe the location of the site in terms of readily identifiable landmarks: (e.g., mailboxes, mile posts, street intersections, etc.)

EXISTING CELL TOWER

23. Are there existing structures on the property? If yes and the proposal is for a subdivision, describe below and identify the use of each structure on the plot plan or tentative map.

- NO** **YES**

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

- NO** **YES**
