



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
TELEPHONE: 707-234-6650
FAX: 707-463-5709
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FB FAX: 707-961-2427
pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

September 27, 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_2024-0029

DATE FILED: 9/11/2024

OWNER: CROWN CASTLE GT

APPLICANT: Tihtina Sintayehu

REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the removal of one Commscope VHLP4-11W-6WH microwave dish, install one Ceragon C ODU, remove one microwave cable, install one Commscope VHLP4-18/C microwave dish, install one Ceragon fibair 1P-20A RFU-D ODU, install one Amphenol fiber optic-2CX14AWG TMO cable, install one Amphenol fiber optic-duplex armor I/O TMO CCIV2 cable, install one 2" innerduct, install one Commscope highwind 6-KITIR

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: KEITH GRONENDYKE

RESPONSE DUE DATE: October 11, 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

OWNER: CROWN CASTLE GT COMPANY LLC
APPLICANT: T-MOBILE WEST LLC BY CROWN CASTLE
AGENT: CROWN CASTLE INC. (TIHTINA SINTAYEHU)

REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the removal of one Commscope VHLP4-11W-6WH microwave dish, install one Ceragon C ODU, remove one microwave cable, install one Commscope VHLP4-18/C microwave dish, install one Ceragon fibair 1P-20A RFU-D ODU, install one Amphenol fiber optic-2CX14AWG TMO cable, install one Amphenol fiber optic-duplex armor I/O TMO CCIV2 cable, install one 2" innerduct, install one Commscope highwind 6-KITIR

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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

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.

AP_2024-0015 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.

STAFF PLANNER: KEITH GRONENDYKE

DATE: 9/27/2024

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:

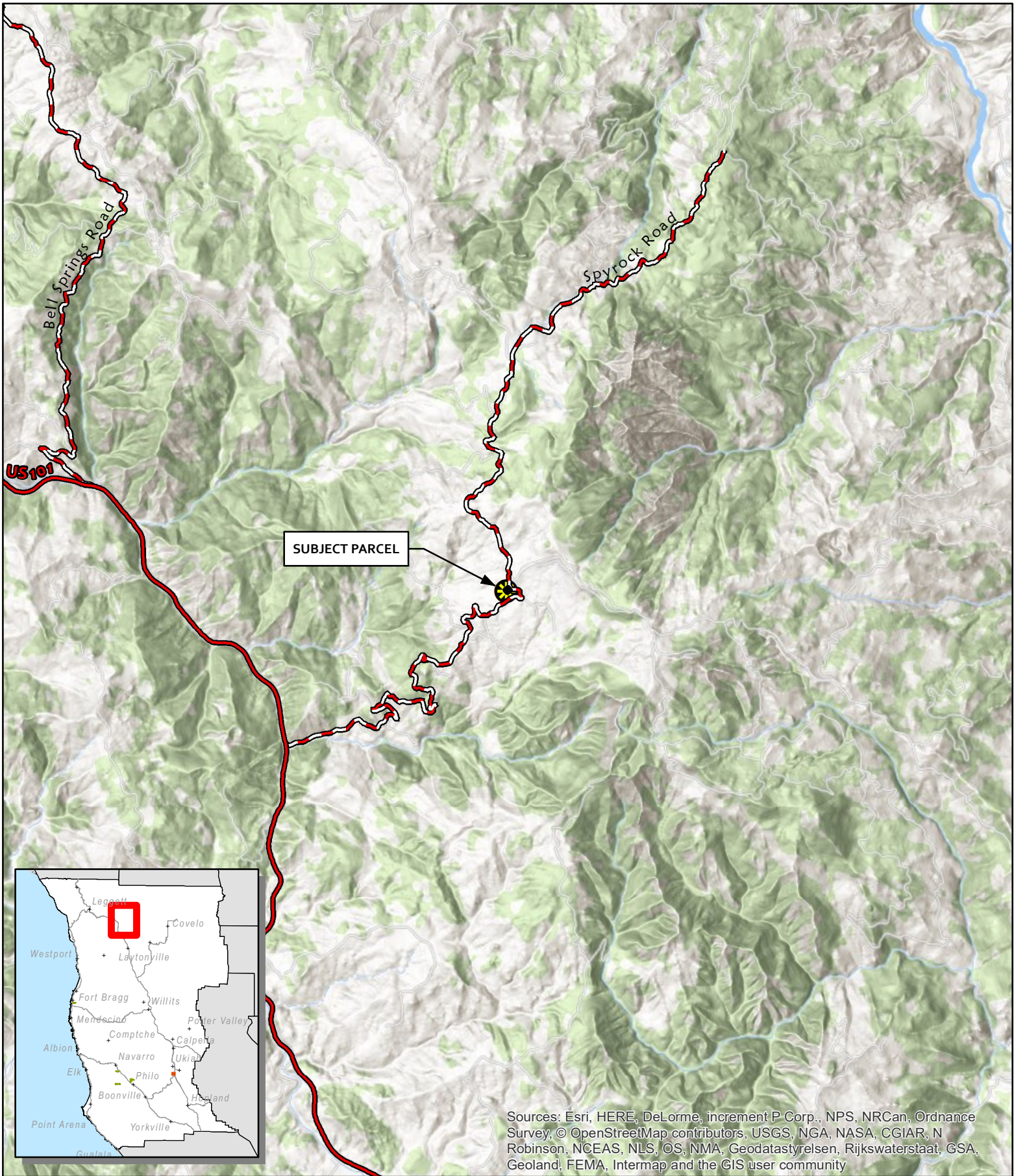
Policy
No

22. OAK WOODLAND AREA:

USDA
No

23. HARBOR DISTRICT:

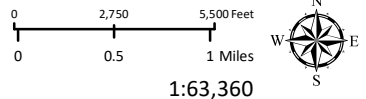
Sec. 20.512
No



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CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

-  Highways
-  Major Roads
-  Approved Wireless Sites



1:63,360


LOCATION

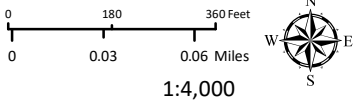
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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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AGENT: T-Mobile West LLC
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 Approved Wireless Sites



1:4,000


AERIAL IMAGERY

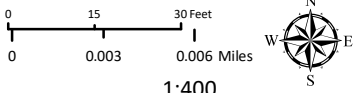
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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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APN: 056-310-18
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 Approved Wireless Sites



1:400

AERIAL IMAGERY

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PLANNING & BUILDING SERVICES

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

APPLICATION FORM

APPLICANT:

Name: T-Mobile West LLC by Agent c/o Crown Castle Inc, on behalf of Tihina Sintayehu
Phone: 206-336-3228
Mailing Address: 8020 Katy Freeway Houston, TX 77024
City: State/Zip: Email: tihina.sintayehu@crowncastle.com

PROPERTY OWNER:

Name: Crown Castle INC. USA
Phone:
Mailing Address: 8020 Katy Freeway Houston, TX 77024
City: State/Zip: Email:

AGENT:

Name: Same as applicant
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.

Agent Crown Castle Inc. Tihina Sintayehu 08/30/24 Same as applicant
Signature of Applicant/Agent Date Signature of Owner Date

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: •REMOVE (1) COMMSCOPE - VHLP4-11W-6WH MICROWAVE DISH •REMOVE (1) CERAGON - FIBEAIR RFU-C ODU •REMOVE (1) MICROWAVE CABLE •INSTALL (1) COMMSCOPE - VHLP4-18/C MICROWAVE DISH •INSTALL (1) CERAGON - FIBEAIR IP-20A RFU-D ODU •INSTALL (1) AMPHENOL FIBER OPTIC - 2CX14AWG TMO CABLE (21/64") •INSTALL (1) AMPHENOL FIBER OPTIC - DUPLEX ARMOR I/O_TMO_CCIV2 CABLE (1/4") •INSTALL (1) 2" INNERDUCT •INSTALL (1) COMMSCOPE - HIGHWIND-6-KITIR

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: Existing wirelss facilty			2,792 sq ft		2,792 sq ft
GRAND TOTAL (Equal to gross area of Parcel): 2,792 sq ft					

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: N/A

Estimated No. of shifts per day: N/A

Type of loading facilities proposed: N/A

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:	_____	_____
No. of uncovered spaces:	_____	_____
No. of standard spaces:	_____	_____
No. of accessible spaces:	_____	_____
Existing no. of spaces:	_____	_____
Proposed additional spaces:	_____	_____
Total:	_____	_____

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: _____ cubic yards

Amount of fill: _____ cubic yards

Max. height of fill slope: _____ feet

Max. height of cut slope: _____ feet

Amount of import/export: _____ cubic yards

Location of borrow or disposal site: _____

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:

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): No sewage on site

19. What will be the domestic water source:

- Community Water System (specify supplier): _____
- Well
- Spring
- Other (specify): No water on site

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:

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

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**

This is a modification to an existing cell tower, no subdivision.

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**

CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.

2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.

<u>Agent Crown Castle Inc. Tihtina Sintayehu</u> _____ Owner/Authorized Agent	08/30/2024 _____ Date
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NOTE: IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

AUTHORIZATION OF AGENT

I hereby authorize _____ Agent is applicant _____ to act as my representative and to bind me in all matters concerning this application.

<u>Agent c/o Crown Castle INC. Tihtina Sintayehu</u> _____ Owner	08/30/2024 _____ Date
--	-----------------------------

MAIL DIRECTION

To facilitate proper handling of this application, please indicate the names and mailing addresses of individuals to whom you wish correspondence and/or staff reports mailed if different from those identified on Page 1 of the application form.

Name Tihtina Sintayehu Agent c/o Crown Castle Inc, on behalf of T-Mobile West LLC	Name _____	Name _____
Mailing Address 8020 Katy Freeway Houston, TX 77024	Mailing Address _____	Mailing Address _____

COMPLETE FOR PROJECTS
LOCATED IN THE COASTAL
ZONE ONLY

DECLARATION OF POSTING

At the time the application is submitted for filing, the applicant must **Post**, at a conspicuous place, easily read by the public and as close as possible to the site of the proposed development, notice that an application for the proposed development has been submitted. Such notice shall contain a general description of the nature of the proposed development and shall be on the standard form provided in the application packet. If the applicant fails to post the completed notice form and sign the **Declaration of Posting**, the Department of Planning and Building Services cannot process the application.

As **Proof of Posting**, please sign and date this Declaration of Posting form when the site is posted; it serves as proof of posting. It should be returned to the Department of Planning and Building Services with the application.

Pursuant to the requirements of Section 20.532.025(H) of the Mendocino County Code, I hereby certify that on _____
(date of posting), I or my authorized representative posted the "NOTICE OF PENDING
PERMIT" for application to obtain a Coastal Development Permit for the development of:

(Description of development)

Located at:

(Address of development and Assessor's Parcel Number)

The public notice was posted at:

(A conspicuous place, easily seen by the public and as close as possible to the site of proposed development)

Owner/Authorized Representative

Date

(A copy of the notice which was posted shall be attached to this form).

NOTE: YOUR APPLICATION CANNOT BE PROCESSED UNTIL THIS "DECLARATION OF POSTING" IS SIGNED AND RETURNED TO PLANNING AND BUILDING SERVICES.

COMPLETE FOR PROJECTS
LOCATED IN THE COASTAL
ZONE ONLY

NOTICE OF PENDING PERMIT

A COASTAL PERMIT APPLICATION FOR DEVELOPMENT ON THIS SITE IS PENDING BEFORE THE COUNTY OF MENDOCINO.

PROPOSED DEVELOPMENT: _____

LOCATION: _____

APPLICANT: _____

ASSESSOR'S PARCEL NUMBER: _____

DATE NOTICE POSTED: _____

FURTHER INFORMATION IS AVAILABLE AT:

COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING & BUILDING SERVICES
pbs@mendocinocounty.org
860 North Bush Street, Ukiah, CA 95482, 707-234-6650
120 West Fir Street, Fort Bragg, CA 95437, 707-964-5379
HOURS: 8:00 - 5:00

Indemnification And Hold Harmless

ORDINANCE NO. 3780, adopted by the Board of Supervisors on June 4, 1991, requires applicants for discretionary land use approvals, to sign the following Indemnification Agreement. Failure to sign this agreement will result in the application being considered incomplete and withheld from further processing.

Indemnification Agreement

As part of this application, applicant agrees to defend, indemnify, release and hold harmless the County of Mendocino, its agents, officers, attorneys, employees, boards and commissions, as more particularly set forth in Mendocino County Code Section 1.04.120, from any claim, action or proceeding brought against any of the foregoing individuals or entities, the purpose of which is to attack, set aside, void or annul the approval of this application or adoption of the environmental document which accompanies it. The indemnification shall include, but not be limited to, damages, costs, expenses, attorney fees or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the County, its agents, officers, attorneys, employees, boards and commissions.

08/30/24

Tihtina Sintayehu Agent c/o Crown Castle Inc, on behalf of T-Mobile West LLC

Date

Applicant

Coastal Zone Development

Complete for projects located in the coastal zone only

List all property owners within 300 feet and occupants within 100 feet along with the corresponding Assessor's Parcel Number for each owner/occupant. **This form must be typed.**

APN Lastname, Firstname Street Address City, State Zip		

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. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "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.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED--STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS--STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED--STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
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 AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. 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 APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
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, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

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, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
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 WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
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 ANTIOXIDANT 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, IN ACCORDANCE WITH THE NEC.
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 THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/O COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: T-MOBILE TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF 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 AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
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, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS: #4 BARS AND SMALLER.....40 ksi #5 BARS AND LARGER.....60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3" CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER.....2" #5 BARS AND SMALLER.....1-1/2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLAB AND WALLS.....3/4" BEAMS AND COLUMNS.....1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

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/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
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.
4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
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 (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S)
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP--STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
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. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90° ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION--TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFOLD SPECIMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER--ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO AVOID ROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY--COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY--COATED OR NON--CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
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 CODE. Rows include 120/240V, 10; 120/208V, 30; 277/480V, 30; and DC VOLTAGE.

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

ABBREVIATIONS:

- 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 REB 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 UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM W.P. WORK POINT

APWA UNIFORM COLOR CODE:

- 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



T-MOBILE SITE NUMBER: SF40873A

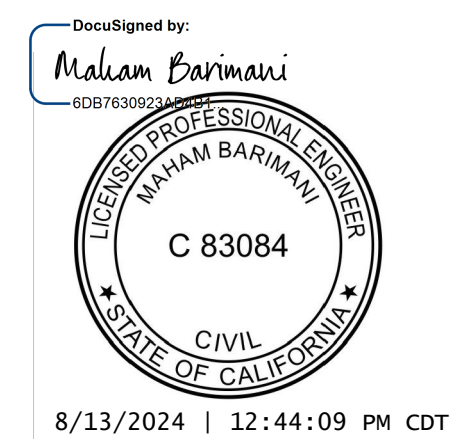
BU #: 814448 CUMMINGS

3750 SPYROCK ROAD LAYTONVILLE, CA 95454

EXISTING 64'-0" MONOPOLE

ISSUED FOR:

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Rows show revision 0 and 1.



8/13/2024 | 12:44:09 PM PDT

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SHEET NUMBER: T-2 REVISION: 1



T-MOBILE SITE NUMBER:
SF40873A

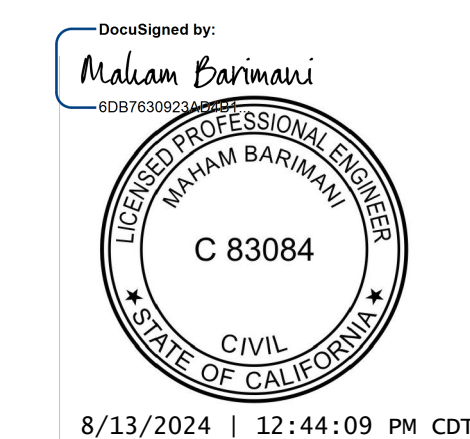
BU #: **814448**
CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 64'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/31/24	NQM	CONSTRUCTION	MB
1	8/13/24	NQM	CONSTRUCTION	MB



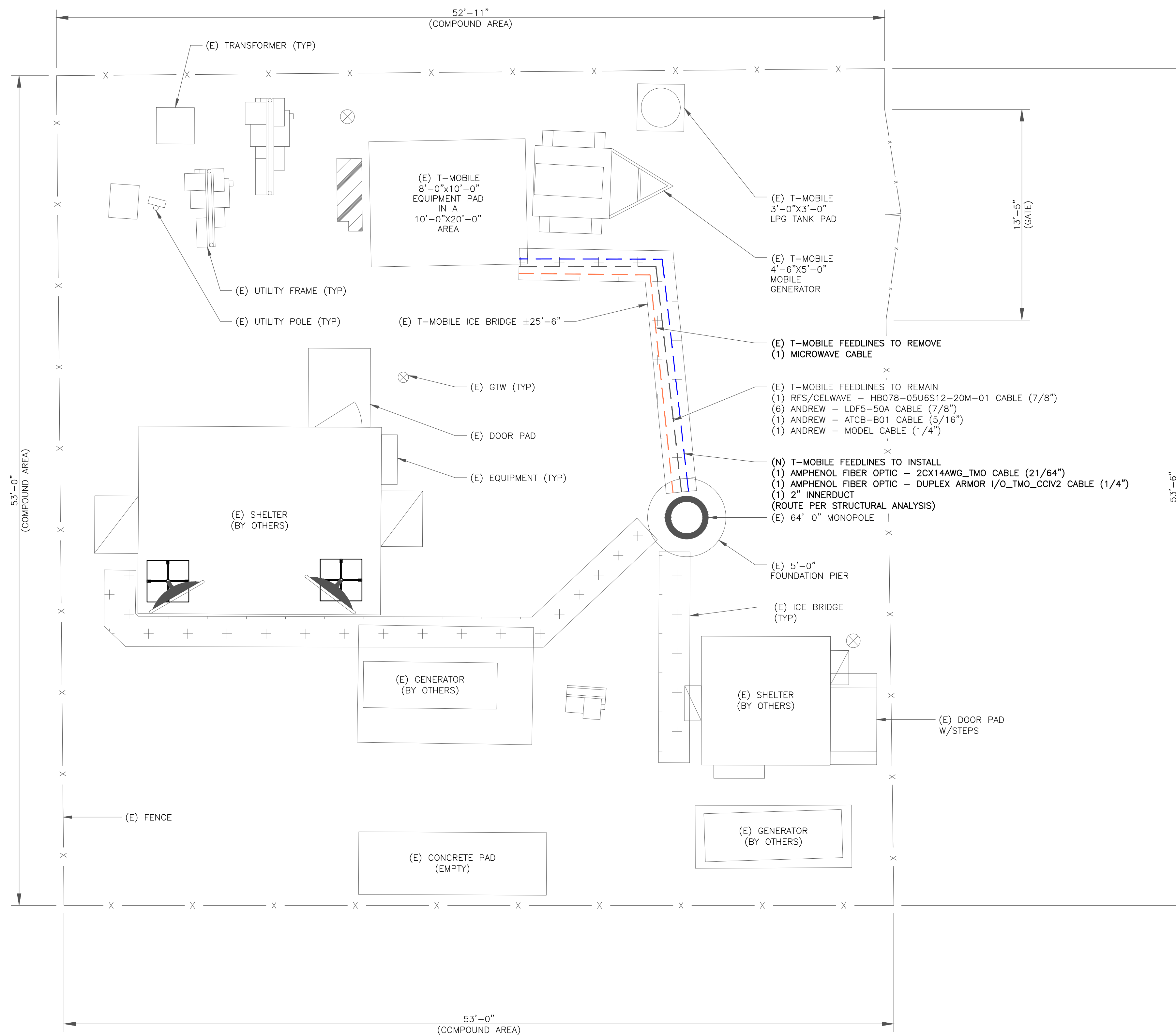
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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

C-1

REVISION:

1



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



EQUIPMENT LEGEND:

- EXISTING TO REMAIN
- TO BE RELOCATED/REMOVED

T-MOBILE EQUIPMENT

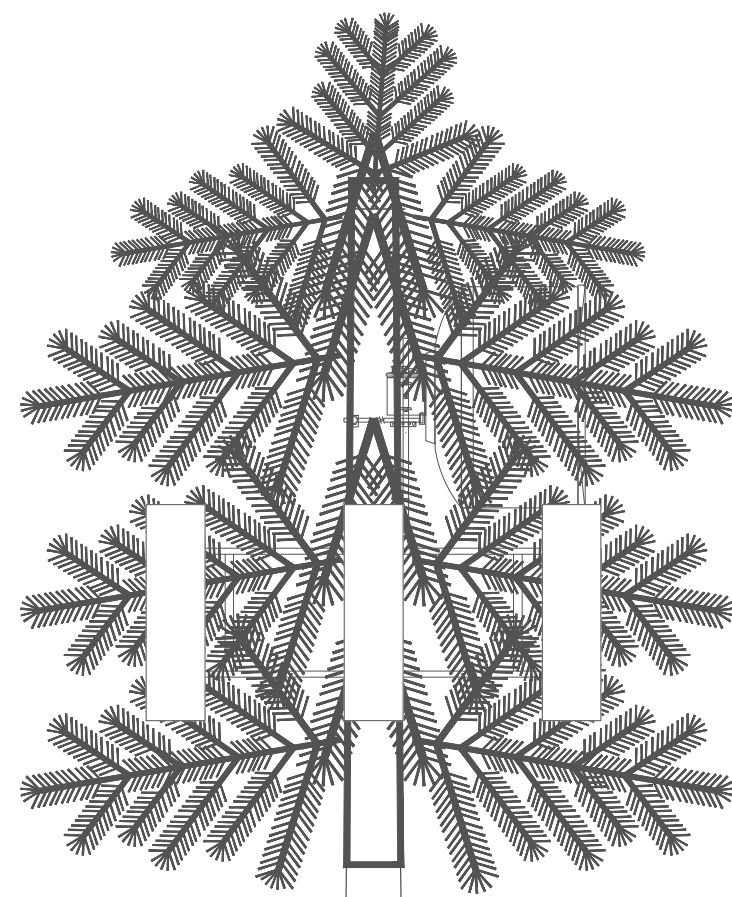
- (E) ANTENNA CL: 41'-0" & 40'-0"
- (E) MOUNT CL: 40'-0"
- NEW MW DISH CL: 40'-0"
- NEW MOUNT CL: 40'-0"

EQUIPMENT LEGEND:

- EXISTING
- NEW/RELOCATED

TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 68'-8"

TOP OF TOWER
ELEV. = 64'-0"



EXISTING EQUIPMENT BY OTHERS
MCL = 57'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 52'-0"

T-MOBILE ANTENNA CENTERLINE
ELEV. = 41'-0"

T-MOBILE MOUNT CENTERLINE
ELEV. = 40'-0"

T-MOBILE ANTENNA CENTERLINE
ELEV. = 40'-0"

- (E) T-MOBILE EQUIPMENT TO REMAIN
- (3) COMMSCOPE - HBX-3319DS-VTM ANTENNA
- (3) RFS/CELWAVE - APXVAARR24_43-U-NA20 ANTENNA
- (3) ERICSSON - RADIO 4449 B12/B71 RRH
- (3) COMMSCOPE - TMT1921XB68-21A RRH

EXISTING EQUIPMENT BY OTHERS
MCL = 29'-0"

(E) 64'-0" MONOPOLE

EXISTING EQUIPMENT BY OTHERS
MCL = 18'-0"

- (E) T-MOBILE FEEDLINES TO REMAIN
- (1) RFS/CELWAVE - HB078-05U6S12-20M-01 CABLE (7/8")
- (6) ANDREW - LDF5-50A CABLE (7/8")
- (1) ANDREW - ATCB-B01 CABLE (5/16")
- (1) ANDREW - MODEL CABLE (1/4")

- (E) T-MOBILE FEEDLINES TO REMOVE
- (1) MICROWAVE CABLE

BOTTOM OF TOWER
ELEV. = 0"

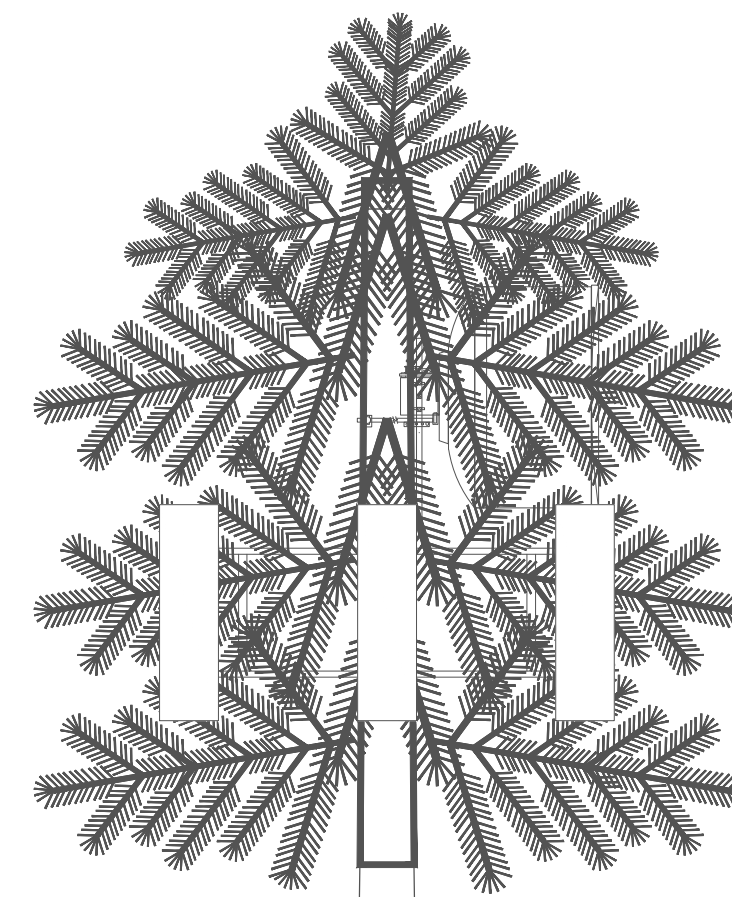
- (E) T-MOBILE EQUIPMENT TO REMOVE
- VHLP4-11W-6WH MICROWAVE DISH
- (1) CERAGON - FIBEAIR RFU-C ODU

1 EXISTING ELEVATION

SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)

TOP OF STRUCTURE WITH APPURTENANCE
ELEV. = 68'-8"

TOP OF TOWER
ELEV. = 64'-0"



EXISTING EQUIPMENT BY OTHERS
MCL = 57'-0"

EXISTING EQUIPMENT BY OTHERS
MCL = 52'-0"

T-MOBILE ANTENNA CENTERLINE
ELEV. = 41'-0"

T-MOBILE MOUNT CENTERLINE
ELEV. = 40'-0"

T-MOBILE ANTENNA CENTERLINE
ELEV. = 40'-0"

T-MOBILE MW CENTERLINE
ELEV. = 40'-0"

- (E) T-MOBILE EQUIPMENT TO REMAIN
- (3) COMMSCOPE - HBX-3319DS-VTM ANTENNA
- (3) RFS/CELWAVE - APXVAARR24_43-U-NA20 ANTENNA
- (3) ERICSSON - RADIO 4449 B12/B71 RRH
- (3) COMMSCOPE - TMT1921XB68-21A RRH

EXISTING EQUIPMENT BY OTHERS
MCL = 29'-0"

(E) 64'-0" MONOPOLE

EXISTING EQUIPMENT BY OTHERS
MCL = 18'-0"

- (E) T-MOBILE FEEDLINES TO REMAIN
- (1) RFS/CELWAVE - HB078-05U6S12-20M-01 CABLE (7/8")
- (6) ANDREW - LDF5-50A CABLE (7/8")
- (1) ANDREW - ATCB-B01 CABLE (5/16")
- (1) ANDREW - MODEL CABLE (1/4")

- (N) T-MOBILE FEEDLINES TO INSTALL
- (1) AMPHENOL FIBER OPTIC - 2CX14AWG_TMO CABLE (21/64")
- (1) AMPHENOL FIBER OPTIC - DUPLEX ARMOR 1/0_TMO_CCIV2 CABLE (1/4")
- (1) 2" INNERDUCT (ROUTE PER STRUCTURAL ANALYSIS)

BOTTOM OF TOWER
ELEV. = 0"

- (N) T-MOBILE EQUIPMENT TO INSTALL
- (1) COMMSCOPE - VHLP4-18/C MICROWAVE DISH
- (1) CERAGON - FIBEAIR IP-20A_RFU-D ODU
- (1) COMMSCOPE-HIGHWIND-6-KIT

2 FINAL ELEVATION

SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)

INSTALLER NOTE:

TWIST AND SWAY LIMITATIONS OF TIA 222 G ANNEX D FOR THIS DISH DO NOT MEET THE ALLOWABLE 3 DB DEGRADATION OR THE 10 DB DEGRADATION LIMIT.



T-MOBILE SITE NUMBER:
SF40873A

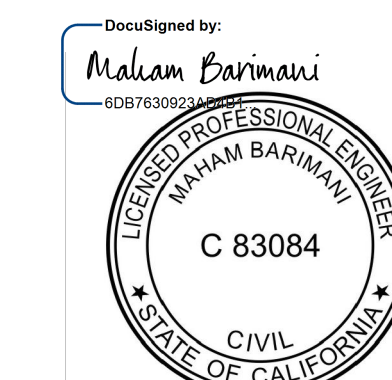
BU #: 814448
CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 64'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/31/24	NQM	CONSTRUCTION	MB
1	8/13/24	NQM	CONSTRUCTION	MB



8/13/2024 | 12:44:09 PM CDT

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SHEET NUMBER:

C-2

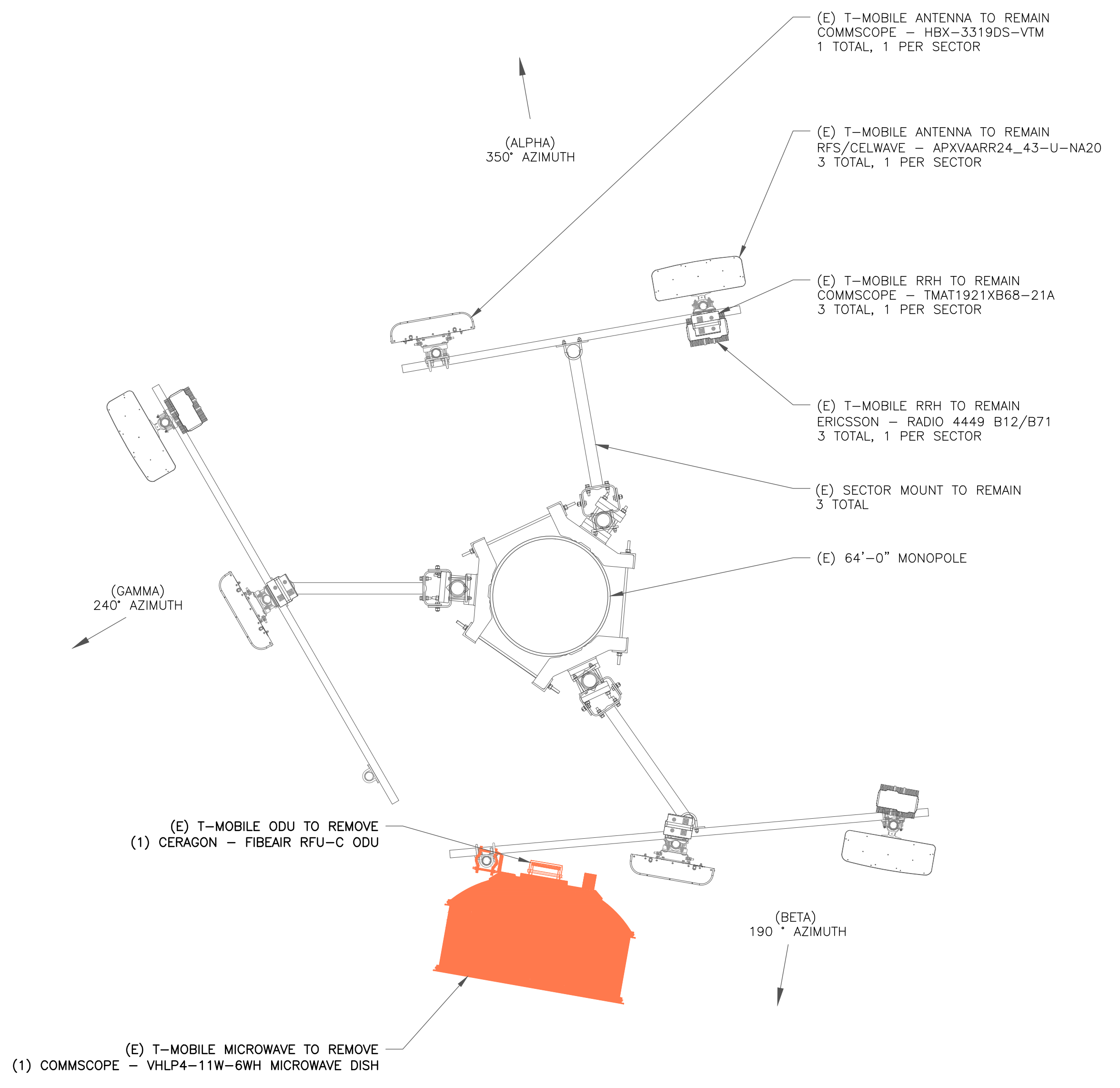
REVISION:

1

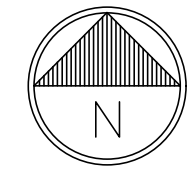
EQUIPMENT LEGEND:

EXISTING TO REMAIN

TO BE RELOCATED/REMOVED



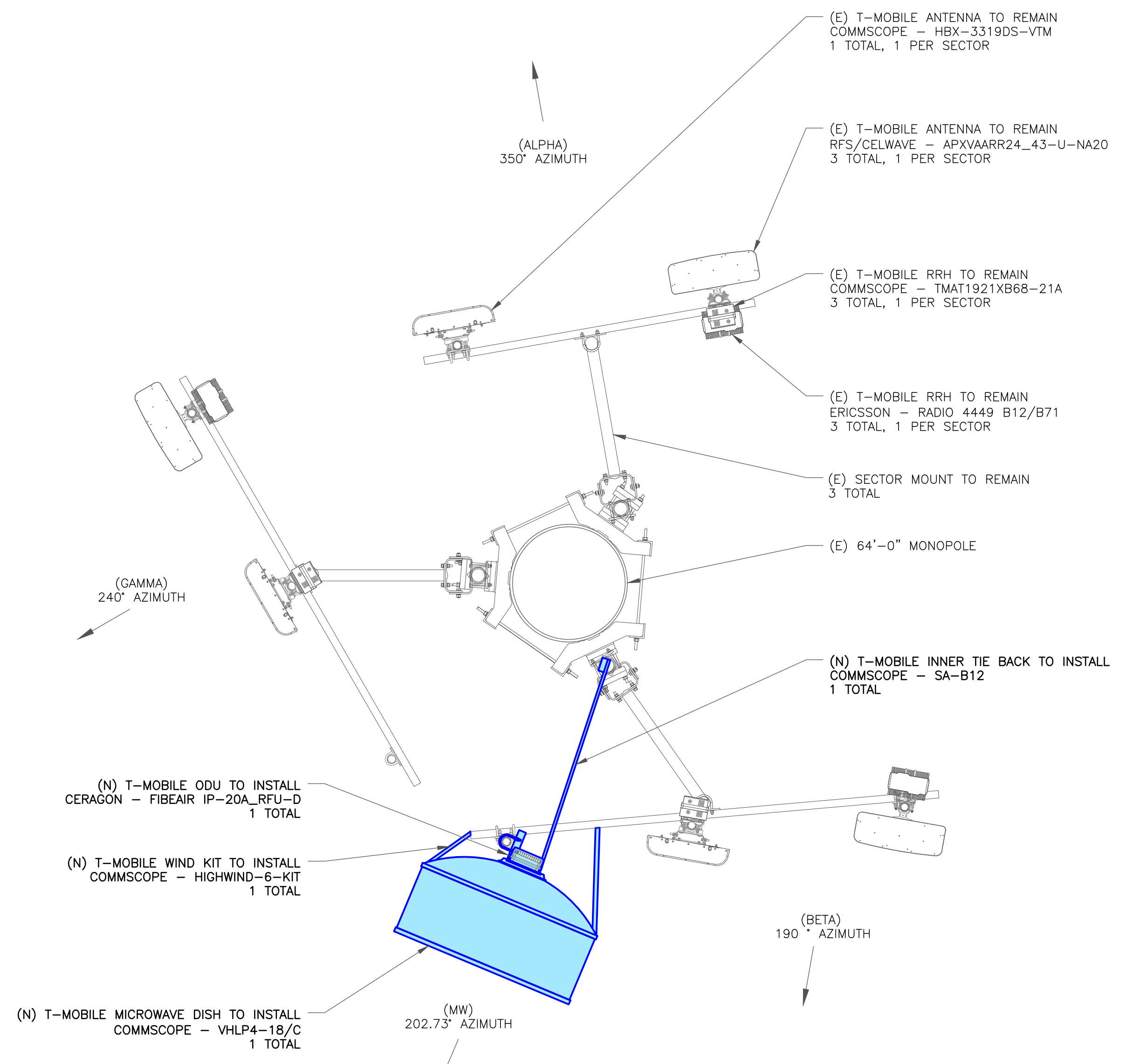
1 EXISTING ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



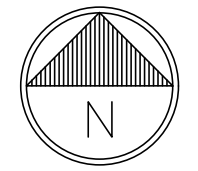
EQUIPMENT LEGEND:

EXISTING

NEW/RELOCATED



2 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



INSTALLER NOTE:
TWIST AND SWAY LIMITATIONS OF TIA 222 G ANNEX D FOR THIS DISH DO NOT MEET THE ALLOWABLE 3 DB DEGRADATION OR THE 10 DB DEGRADATION LIMIT.



T-MOBILE SITE NUMBER:
SF40873A

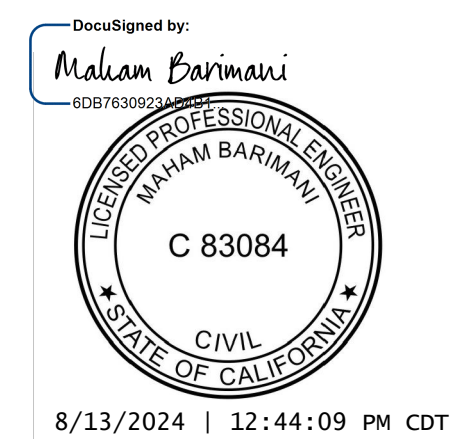
BU #: 814448
CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 64'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/31/24	NQM	CONSTRUCTION	MB
1	8/13/24	NQM	CONSTRUCTION	MB



8/13/2024 | 12:44:09 PM CDT

CROWN CASTLE USA INC.

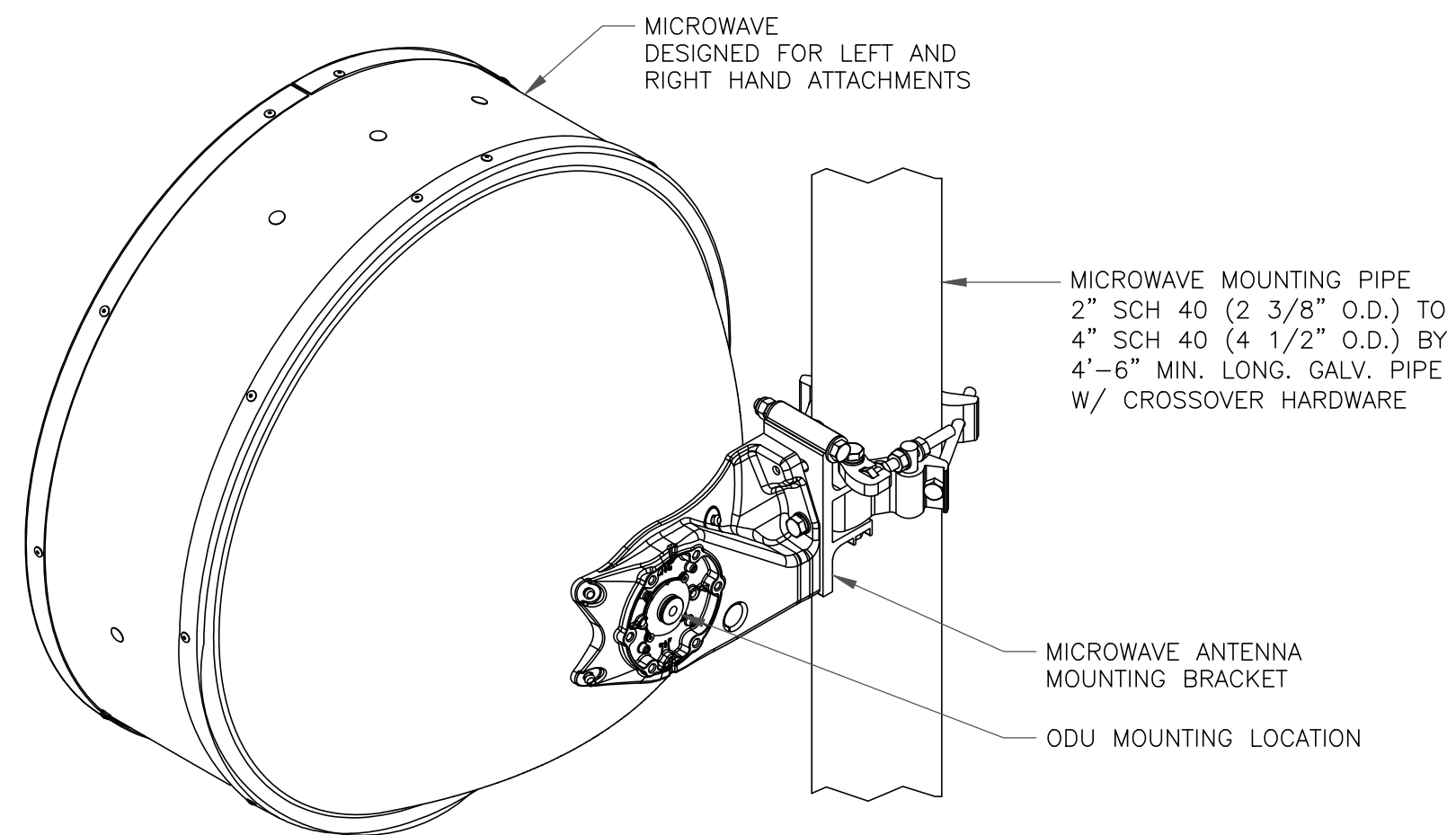
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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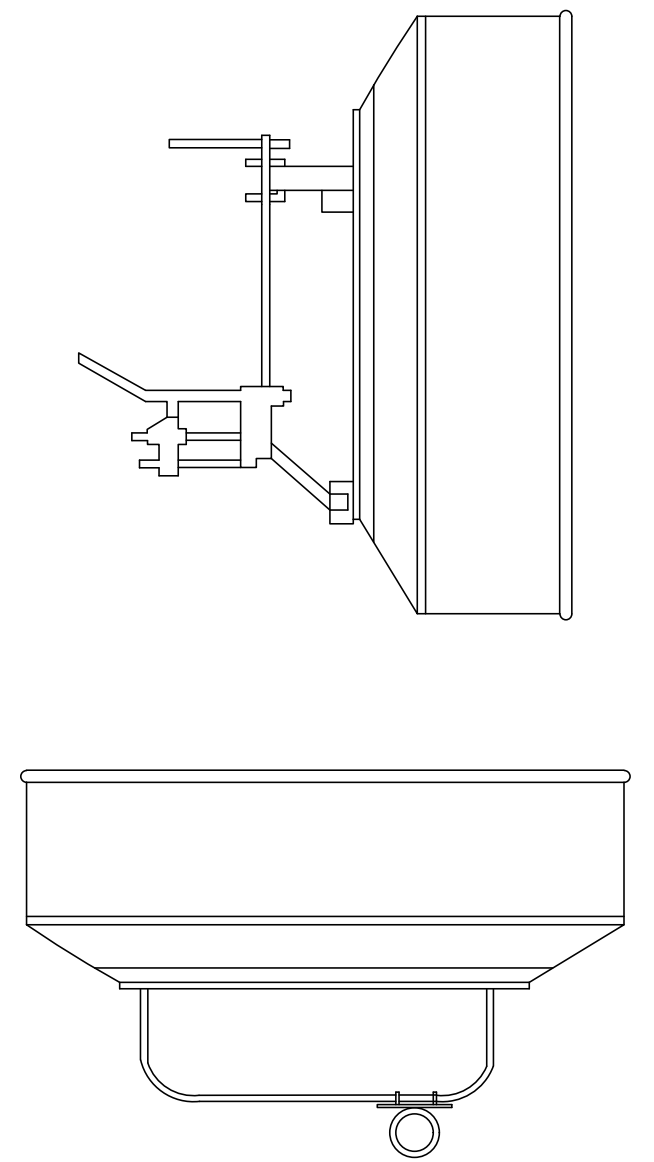
C-3

REVISION:

1

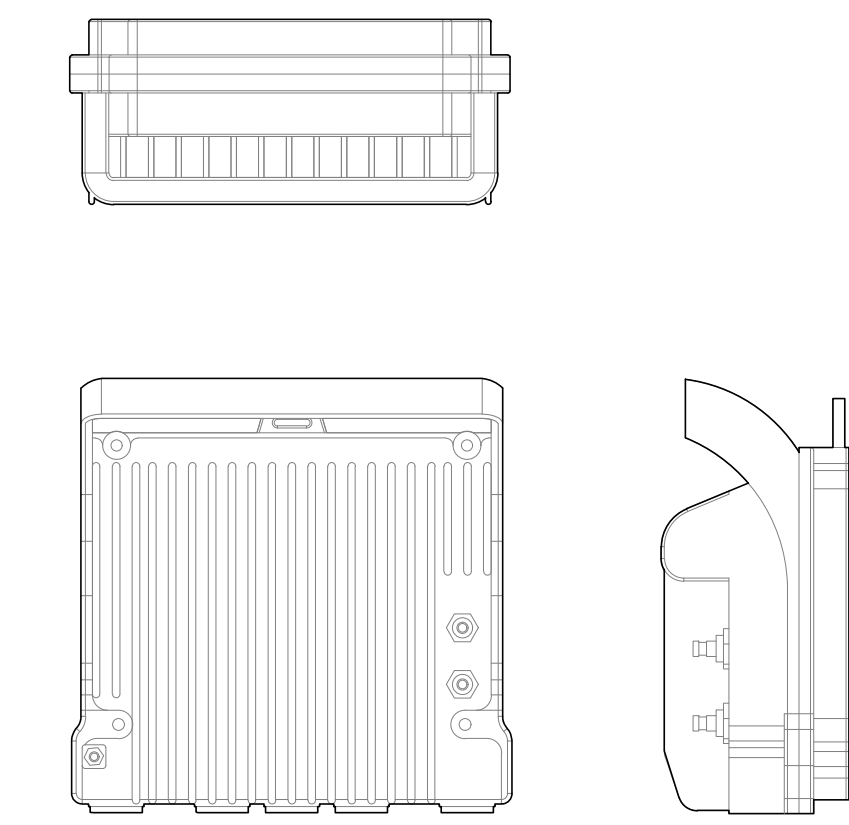


1 MICROWAVE & ODU MOUNTING DETAIL
SCALE: NOT TO SCALE



MICROWAVE SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	VHLP4-18/C
ØxD	50.8"Ø x 29.50"
WEIGHT	70.54 LBS

2 COMMSCOPE - VHLP4-18/C
SCALE: NOT TO SCALE



ODU SPECS	
MANUFACTURER	CERAGON
MODEL #	FIBEAIR IP-20A RFU-D
HxWxD	9.05" x 9.17" x 3.85"
WEIGHT	14.33 LBS

3 CERAGON - FIBEAIR IP-20A RFU-D
SCALE: NOT TO SCALE

T Mobile

CROWN CASTLE

T-MOBILE SITE NUMBER:
SF40873A

BU #: **814448**
CUMMINGS

3750 SPYROCK ROAD
LAYTONVILLE, CA 95454

EXISTING 64'-0"
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/31/24	NQM	CONSTRUCTION	MB
1	8/13/24	NQM	CONSTRUCTION	MB

DocuSigned by:
Maham Barimani

 8/13/2024 | 12:44:09 PM CDT

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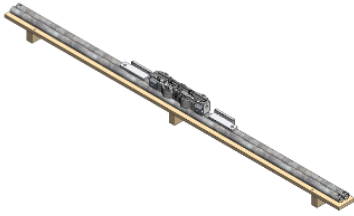
SHEET NUMBER: **C-4** REVISION: **1**

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

HIGHWIND-6-KIT



High wind upgrade kit for LX6, HX6 & USX6 antennas.

Product Classification

Product Type Wind upgrade kit

Material Specifications

Material Type Galvanized steel

Mechanical Specifications

Wind Speed, survival 250 km/h | 155.343 mph

Packaging and Weights

Included Anchor bracket (2x) | Strut pipe, 3m (2x) | Tower clamp kit (2x)

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

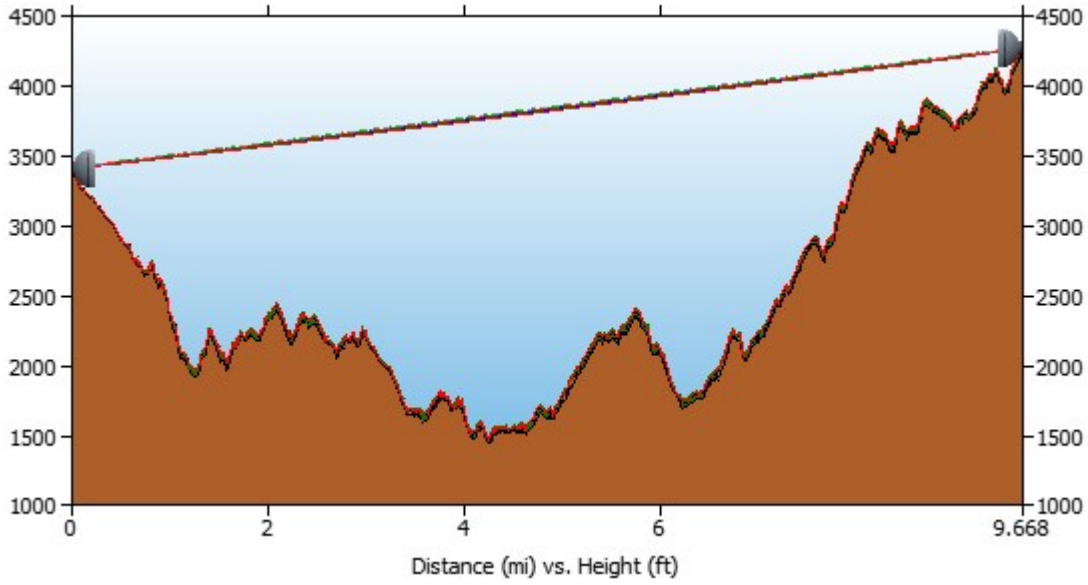


* Footnotes

Wind Speed, survival The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.

iQ.link — Link Budget Report

Date Printed: 18-MAR-2024	Link ID: 4008172	Region: West
Create Date: 18-MAR-2024	Link Name: SF40873A_SF40872A	Created By: NCuenco1



Path length (9.67 mi)

SF40873A	
Latitude:	39-48-57.6 N
Longitude:	123-30-33.8 W
Azimuth:	202.73 Deg
Elevation:	3366.14 ft
Antenna CL:	40.00 ft AGL

Frequency (GHz) = 18.00 GHz	
K1:	1.33
%F1:	0.60
K2:	0.67
%F2:	0.30
K3:	1.33
%F3:	1.00

SF40872A	
Latitude:	39-41-12.2 N
Longitude:	123-34-46.1 W
Azimuth:	22.68 Deg
Elevation:	4212.60 ft
Antenna CL:	55.00 ft AGL

Transmission details		
SITE ID:	SF40873A	SF40872A
CLUSTER_ID:	SF40873A	SF40873A
CALL_SIGN:	WRPB317	WRPP509
ASR #:		
AAV_CONTRACT_ID:	GIL93	TMW01
AAV_CONTRACT_STATUS:	Selected	Selected
Ethernet Installed:	Ethernet	Ethernet
Latitude:	39-48-57.6 N	39-41-12.2 N
Longitude:	123-30-33.8 W	123-34-46.1 W
Azimuth (deg):	202.73 Deg	22.68 Deg
Vertical angle (deg):	0.91 Up	1.02 Down
Elevation:	3366.14 ft	4212.60 ft
Antenna model:	VHLP4-18C	VHLP4-18C
Antenna manufacturer:	ANDREW CORPORATION	ANDREW CORPORATION
Antenna Id:	232	232
Antenna gain (dBi):	44.70 dBi	44.70 dBi
Antenna diameter:	3.94 ft	3.94 ft
Antenna CL:	40.00 ft AGL	55.00 ft AGL
Diversity Antenna model:		
Diversity Antenna manufacturer:		
Diversity Antenna Id:		
Diversity Antenna gain (dBi):		
Diversity Antenna diameter:		
Diversity Antenna CL:		
Branch Loss Tx/Rx (dB):	0.50/0.50	0.50/0.50
Attenuator Common/Tx/Rx (dB):		
Waveguide #1 Model, Len, Loss(dB):		
Waveguide #2 Model, Len, Loss(dB):		
Waveguide #3 Model, Len, Loss(dB):		
Total Waveguide Loss (dB):		
Other Losses (dB):	0.00	0.00
Frequency (GHz):	18.00 GHz	
Path length:	9.67 mi	
Free space loss (dB):	141.39 dB	
Atmospheric absorption loss (dB):	0.84 dB	
Obstruction Loss (dB):	0.00 dB (Not Calculated)	
Field margin (dB):	1.00 dB	
Net path loss (dB):	54.33 dB	54.33 dB
Configuration:	2+0/DP/DM/OMT	2+0/DP/DM/OMT
Radio model:	IP20D-D18-80X-A_4501	IP20D-D18-80X-A_4501
Radio manufacturer:	Ceragon Networks	Ceragon Networks

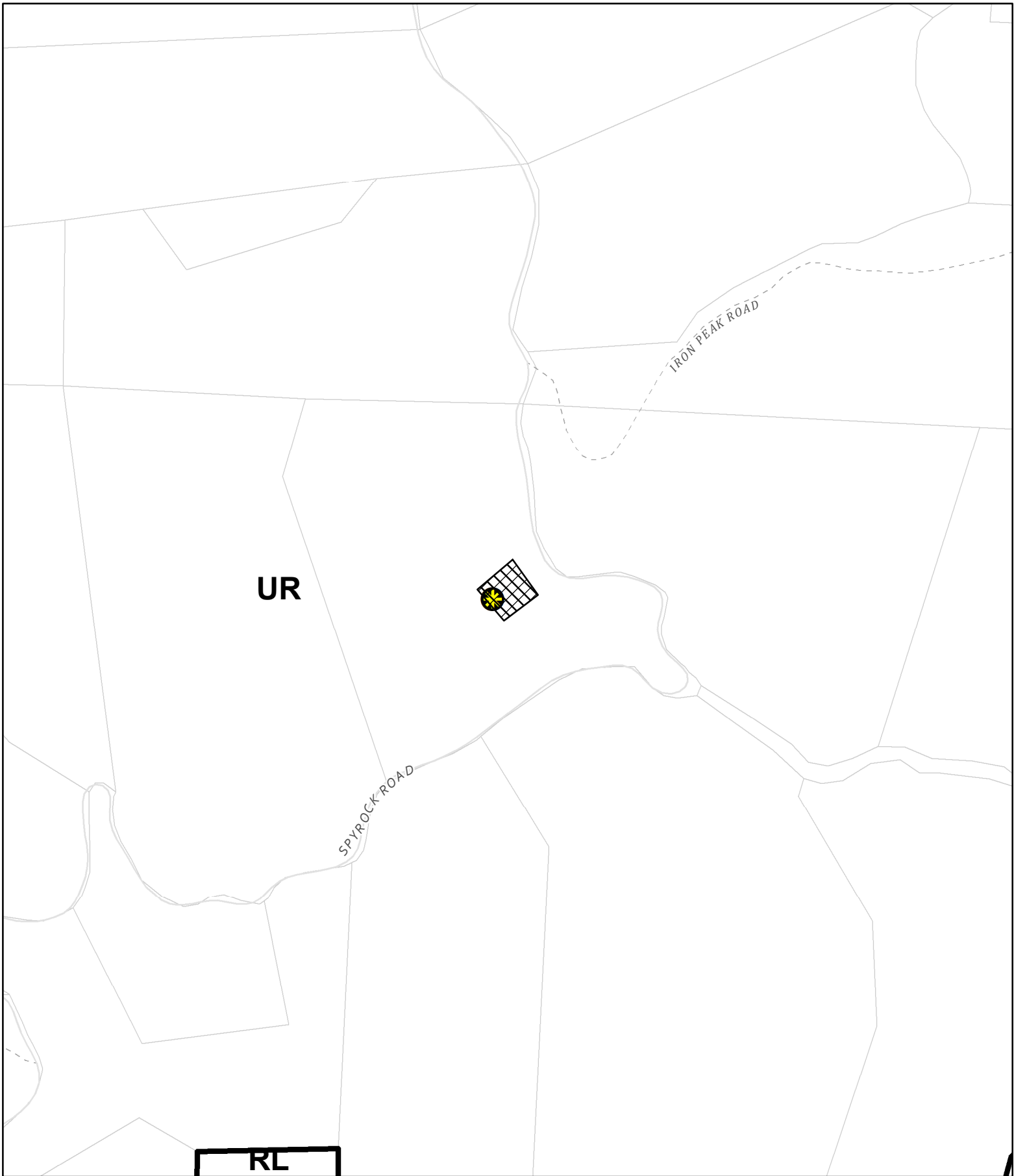
Radio Id:	749	749
Frequency Plan: Frequency (MHz):	Low: 17980.000 /18060.000	High: 19540.000 /19620.000
Polarization:	H/V	H/V
Emission designator:	80M0D7W	80M0D7W
Climatic factor:	1.00	
Terrain roughness factor:	0.25	
Average annual temperature:	55.13 degF	
Design Path Polarity:	Vertical	
Rain region:	Eureka, California	
0.01% Rain Rate:	23.3 mm/hr	
Passive Repeaters		
Antenna model:		
Antenna manufacturer:		
Antenna height:		

Modulation / Throughput	Tx Power A/B (dBm)		EIRP A/B (dBm)		Receive Signal A/B (dBm)		Composite Fade Margin A/B (dB)		Radio Threshold/ ACM Drop Level A/B (dBm)	
BPSK 67.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	52.17	52.17	-85.00	-85.00
4QAM 136.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	46.17	46.17	-79.00	-79.00
8QAM 195.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	42.67	42.67	-75.50	-75.50
16QAM 279.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	39.67	39.67	-72.50	-72.50
32QAM 368.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	36.17	36.17	-69.00	-69.00
64QAM 451.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	33.17	33.17	-66.00	-66.00
128QAM 533.00 Mbps	22.00	22.00	66.20	66.20	-31.83	-31.83	30.17	30.17	-63.00	-63.00
256QAM 614.00 Mbps	20.00	20.00	64.20	64.20	-33.83	-33.83	25.67	25.67	-60.50	-60.50
512QAM 675.00 Mbps	20.00	20.00	64.20	64.20	-33.83	-33.83	22.67	22.67	-57.50	-57.50
1KLQAM 735.00 Mbps	20.00	20.00	64.20	64.20	-33.83	-33.83	19.67	19.67	-54.50	-54.50
1KHQAM 780.00 Mbps	20.00	20.00	64.20	64.20	-33.83	-33.83	19.17	19.17	-54.00	-54.00
2KQAM 826.00 Mbps	18.00	18.00	62.20	62.20	-35.83	-35.83	14.17	14.17	-51.00	-51.00






Modulation/ Throughput	Worst Month Multipath		Worst Month Rain		Annual Multipath		Annual Rain		Total Annual		Total Active in Mode	
	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)
BPSK 67.00 Mbps	99.999988	0.32	99.997575	63.73	99.999997	1.07	99.999705	92.96	99.999702	94.04	0.000251	79.05
4QAM 136.00 Mbps	99.999951	1.29	99.995926	107.06	99.999986	4.27	99.999465	168.82	99.999451	173.09	0.000256	80.72
8QAM 195.00 Mbps	99.999890	2.89	99.994383	147.60	99.999970	9.57	99.999226	244.24	99.999195	253.81	0.000341	107.63
16QAM 279.00 Mbps	99.999780	5.77	99.992467	197.98	99.999939	19.09	99.998914	342.35	99.998854	361.44	0.000644	203.21
32QAM 368.00 Mbps	99.999508	12.92	99.989130	285.67	99.999864	42.74	99.998345	521.91	99.998210	564.65	0.000927	292.32
64QAM 451.00 Mbps	99.99901	25.78	99.98472	401.38	99.99973	85.28	99.99755	771.69	99.99728	856.97	0.001557	490.95

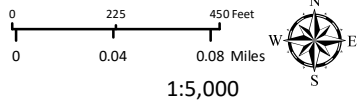
	9		7		0		3		3			
128QAM 533.00 Mbps	99.99804 3	51.44	99.97794 1	579.72	99.99946 0	170.15	99.99626 5	1177.77	99.99572 6	1347.92	0.004886	1540.92
256QAM 614.00 Mbps	99.99448 3	144.98	99.95889 6	1080.20	99.99847 9	479.55	99.99236 0	2409.30	99.99084 0	2888.85	0.006822	2151.28
512QAM 675.00 Mbps	99.98899 3	289.26	99.93497 0	1709.00	99.99696 6	956.83	99.98705 2	4083.30	99.98401 8	5040.13	0.013533	4267.76
1KLQAM 735.00 Mbps	99.97803 8	577.16	99.89095 8	2865.61	99.99394 6	1909.12	99.97653 9	7398.76	99.97048 5	9307.88	0.003474	1095.67
1KHQAM 780.00 Mbps	99.97535 8	647.58	99.87998 3	3154.05	99.99320 8	2142.07	99.97380 3	8261.48	99.96701 1	10403.55	0.071189	22450.12
2KQAM 826.00 Mbps	99.92207 6	2047.83	99.67388 4	8570.32	99.97852 0	6773.82	99.91730 1	26079.85	99.89582 2	32853.67	99.89582 2	3150314 6.33

Multipath fading method - VIGANTS
 Rain fading method - Auto Crane City/Eureka, California



CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

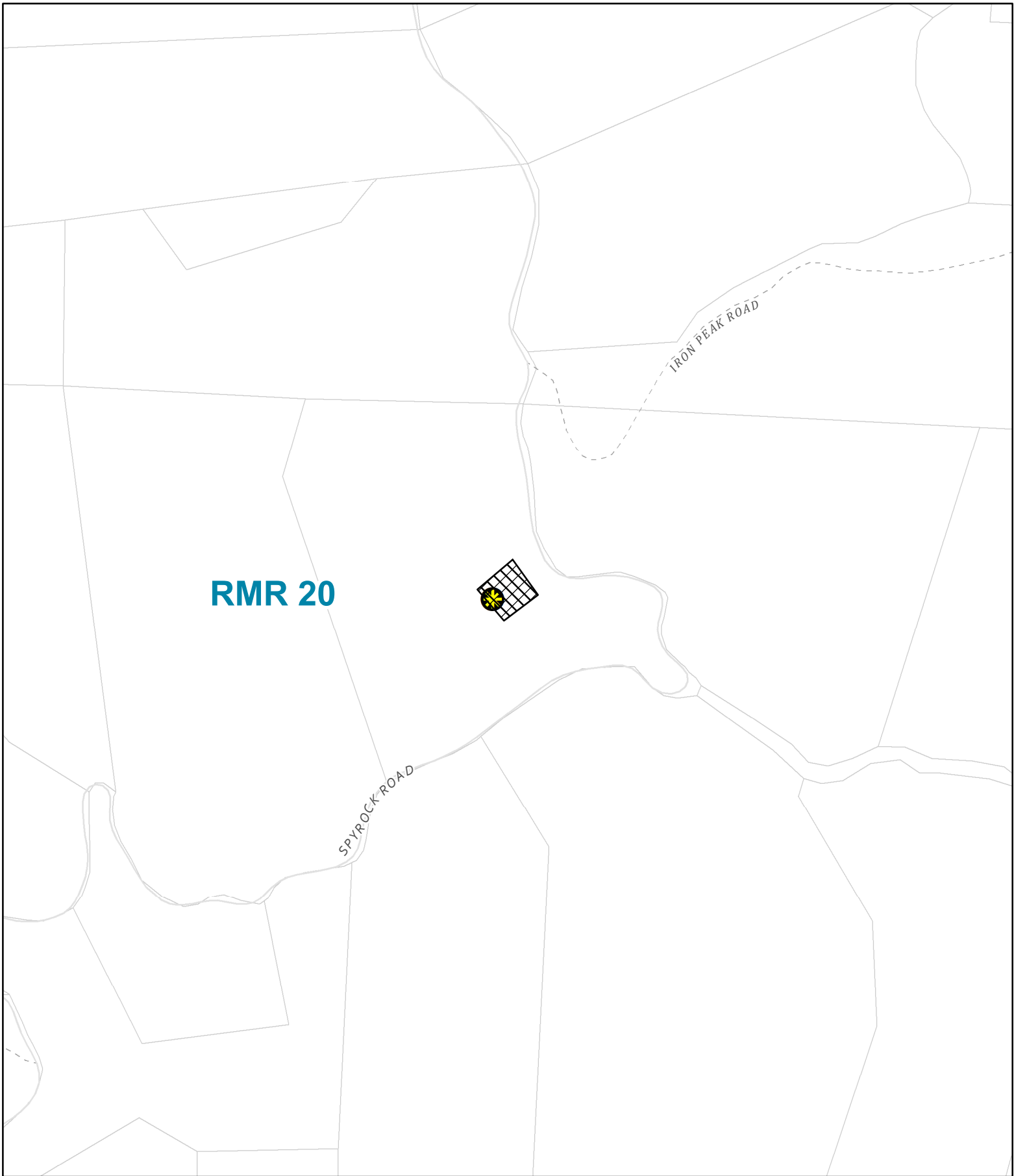
-  Zoning Districts
-  Public Roads
-  Private Roads
-  Assessors Parcels
-  Approved Wireless Sites






1:5,000


ZONING

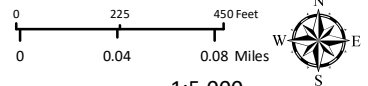
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 DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

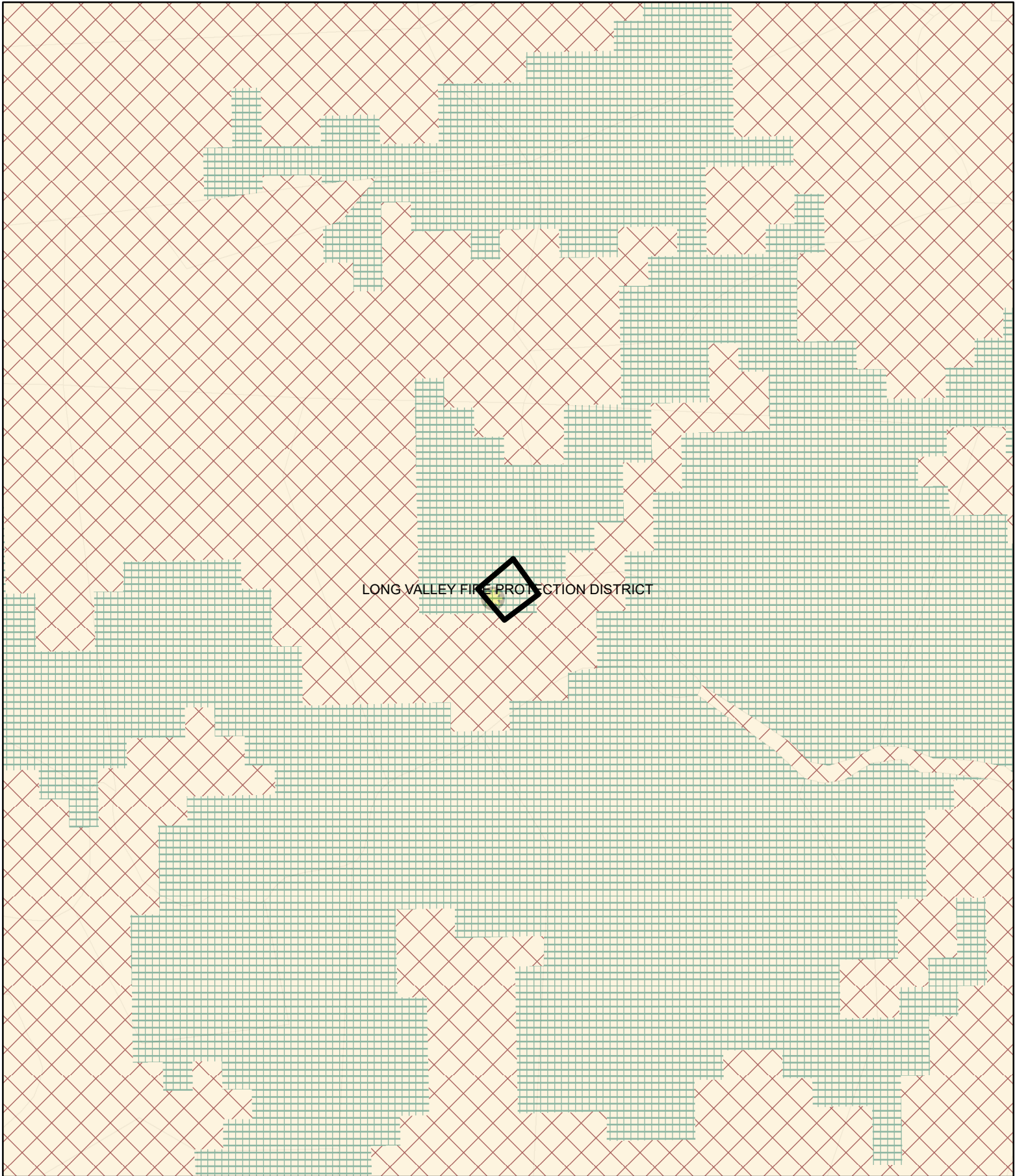
-  Public Roads
-  Private Roads
-  Assessors Parcels

 Approved Wireless Sites






1:5,000
GENERAL PLAN



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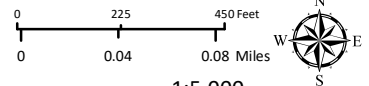


LONG VALLEY FIRE PROTECTION DISTRICT

CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

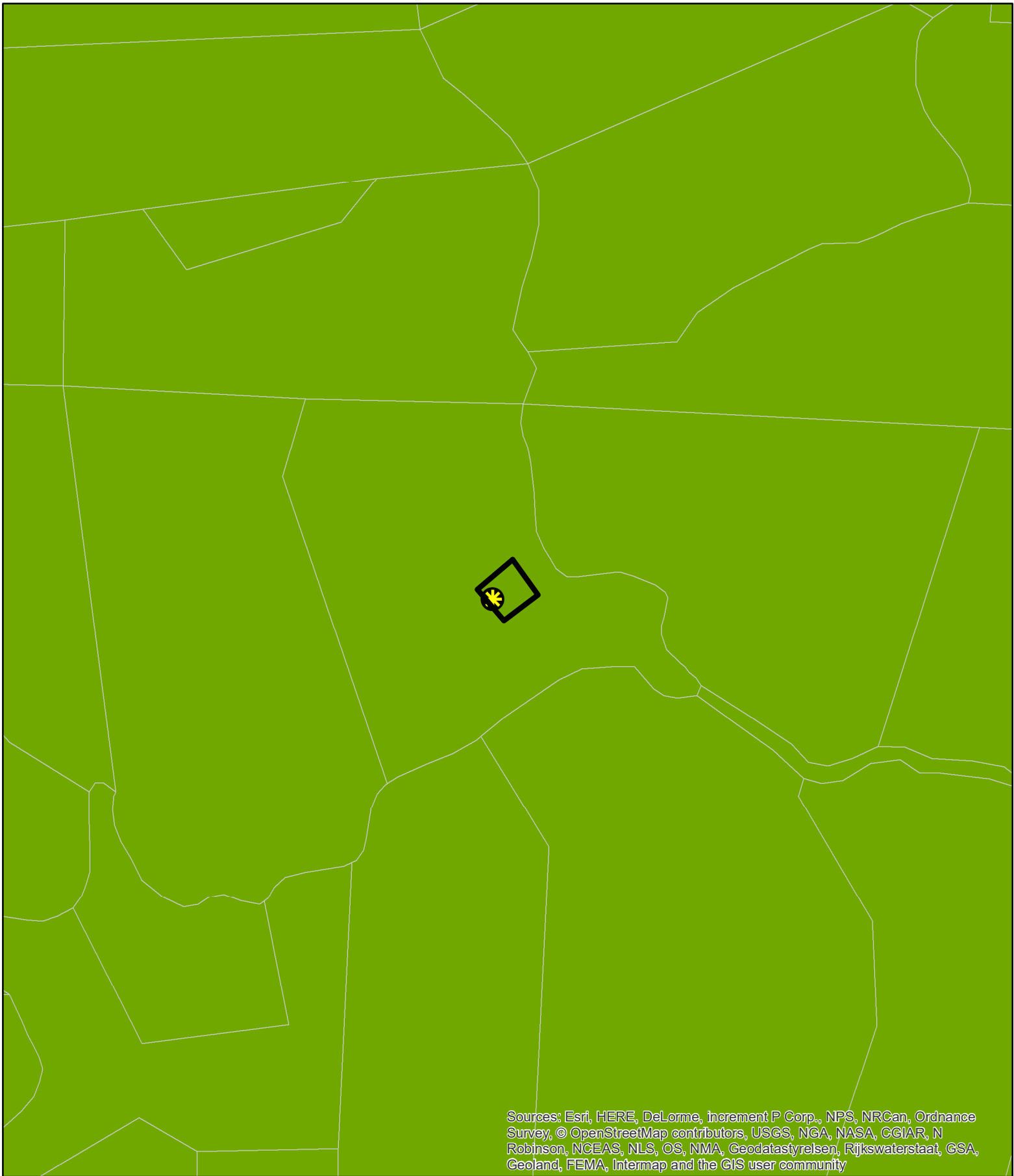
 High Fire Hazard
 Moderate Fire Hazard
 County Fire Districts

 Assessors Parcels
 Approved Wireless Sites






1:5,000
FIRE HAZARD ZONES & RESPONSIBILITY AREAS
 STATE RESPONSIBILITY AREA

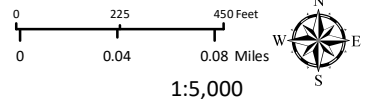
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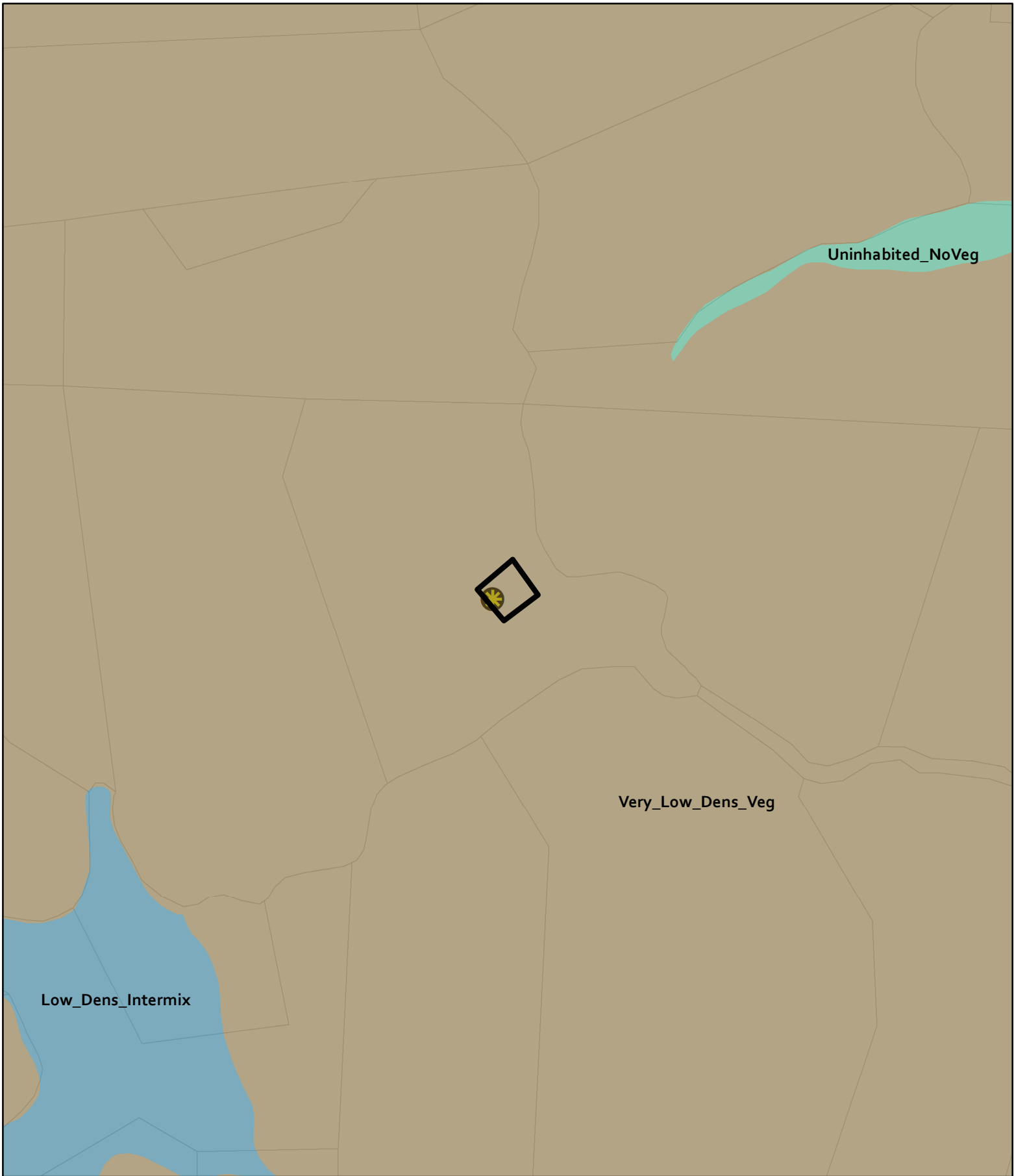
CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

-  Assessors Parcels
-  Approved Wireless Sites
-  Laytonville MAC





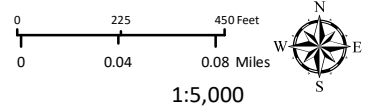
LAYTONVILLE MUNICIPAL ADVISORY COUNCIL

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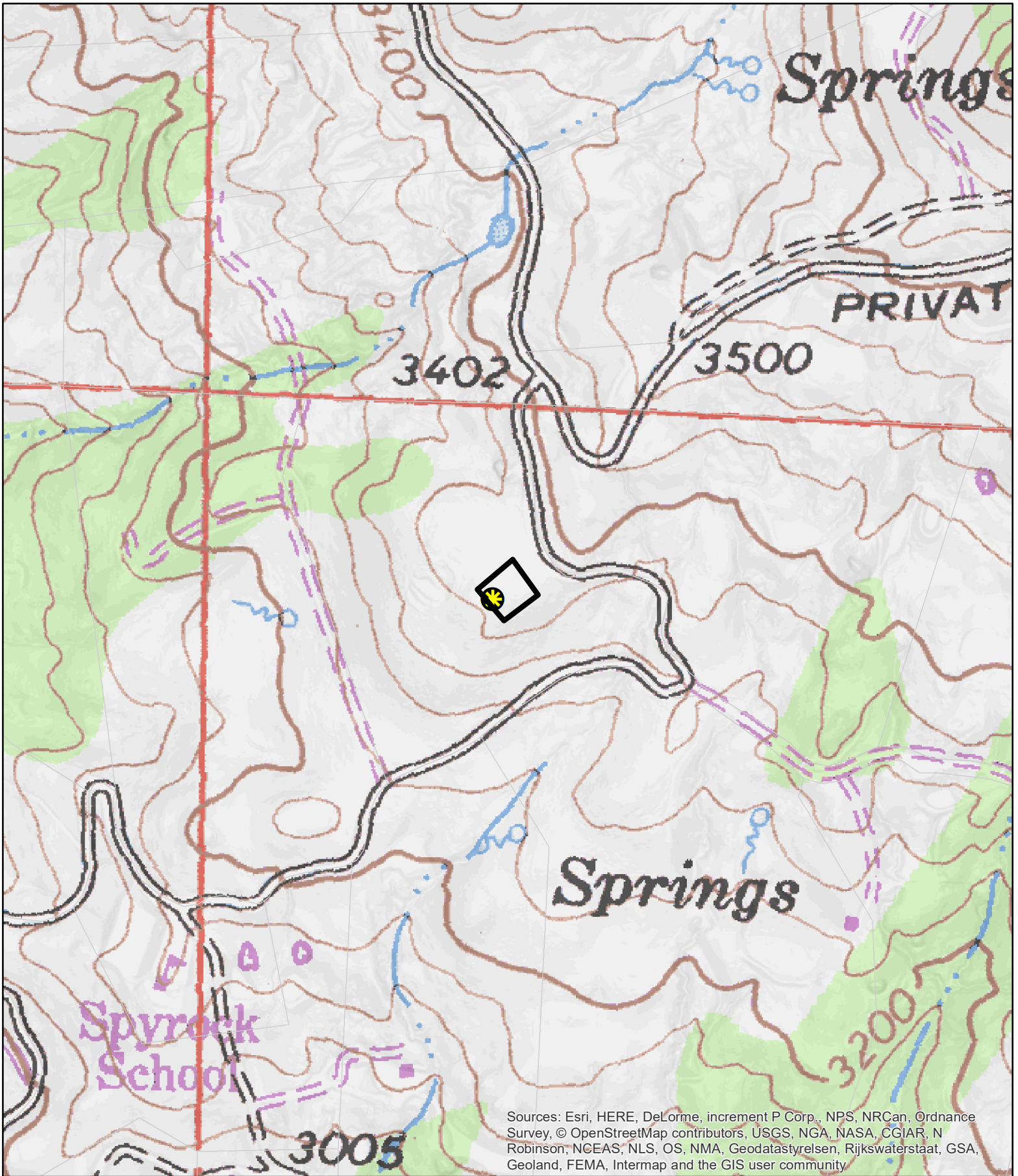
CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

-  Assessors Parcels
-  Approved Wireless Sites





WILDLAND-URBAN INTERFACE

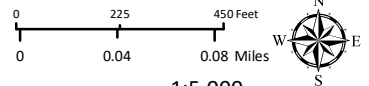
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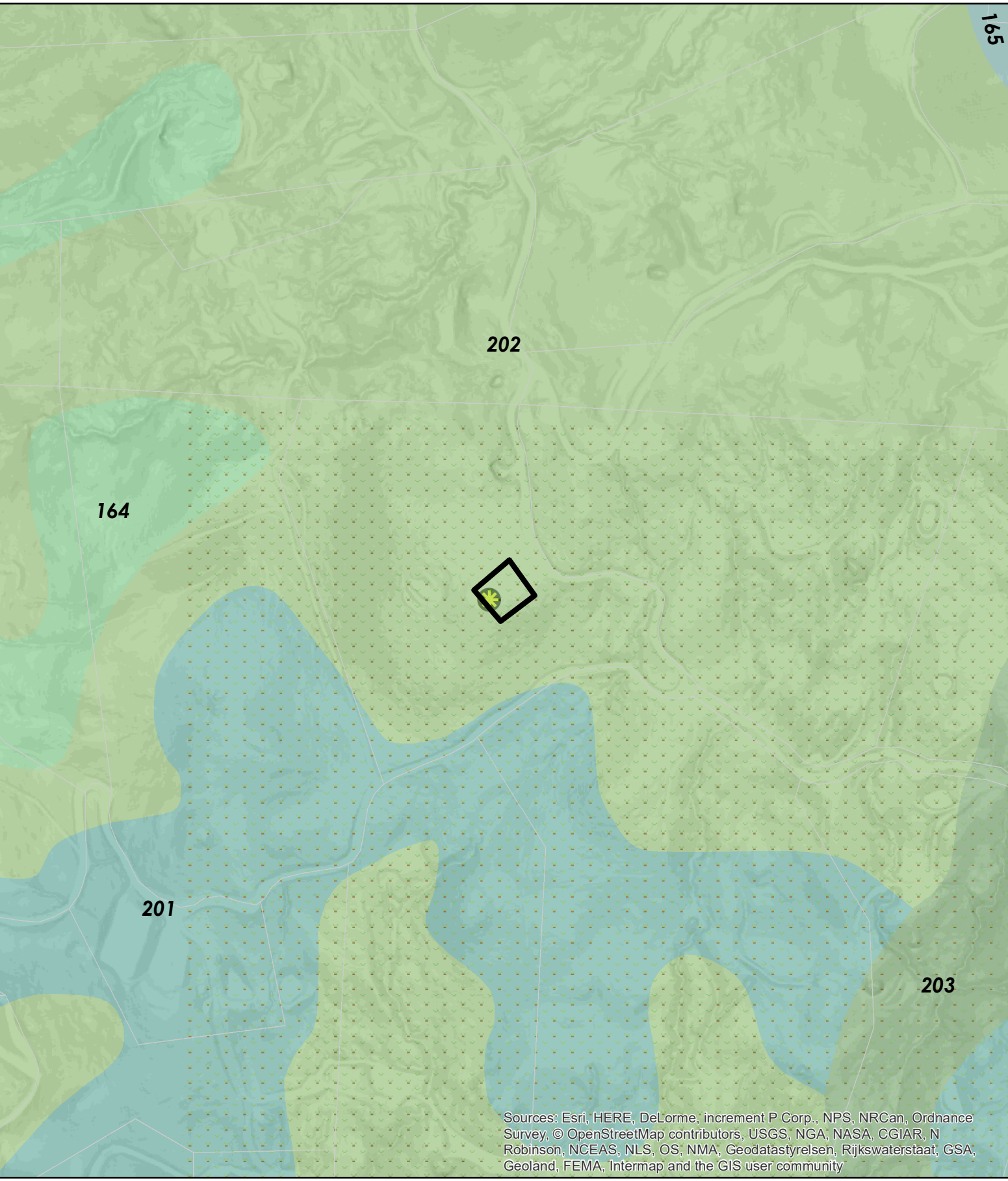
CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

-  Assessors Parcels
-  Approved Wireless Sites






1:5,000
TOPOGRAPHIC MAP
 CONTOUR INTERVAL IS 40 FEET

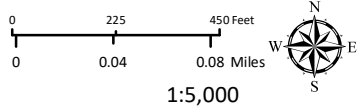
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CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
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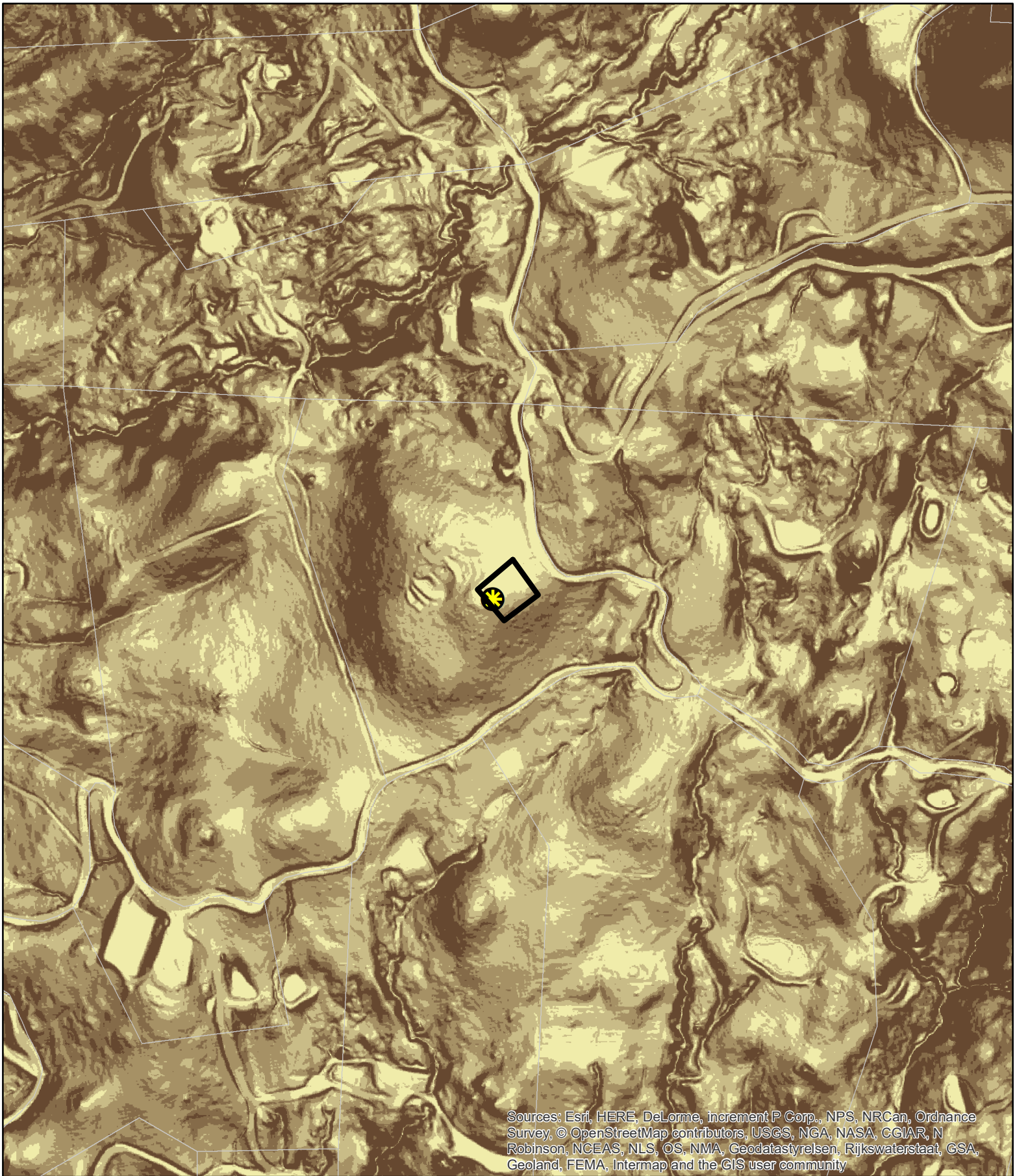
-  Assessors Parcels
-  Naturally Occurring Asbestos
-  Approved Wireless Sites



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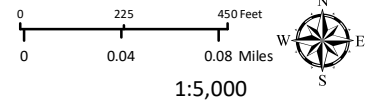
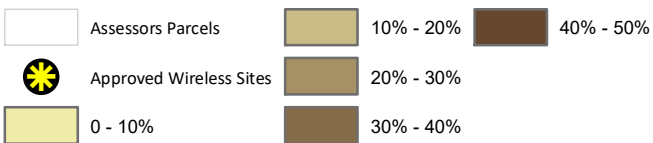
WESTERN SOIL CLASSIFICATIONS

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CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
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ADDRESS: 3750 Spyrock Rd.



1:5,000
ESTIMATED SLOPE

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Laytonville Unified

Spy Rock Elementary School

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CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
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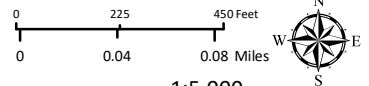
Assessors Parcels



Approved Wireless Sites



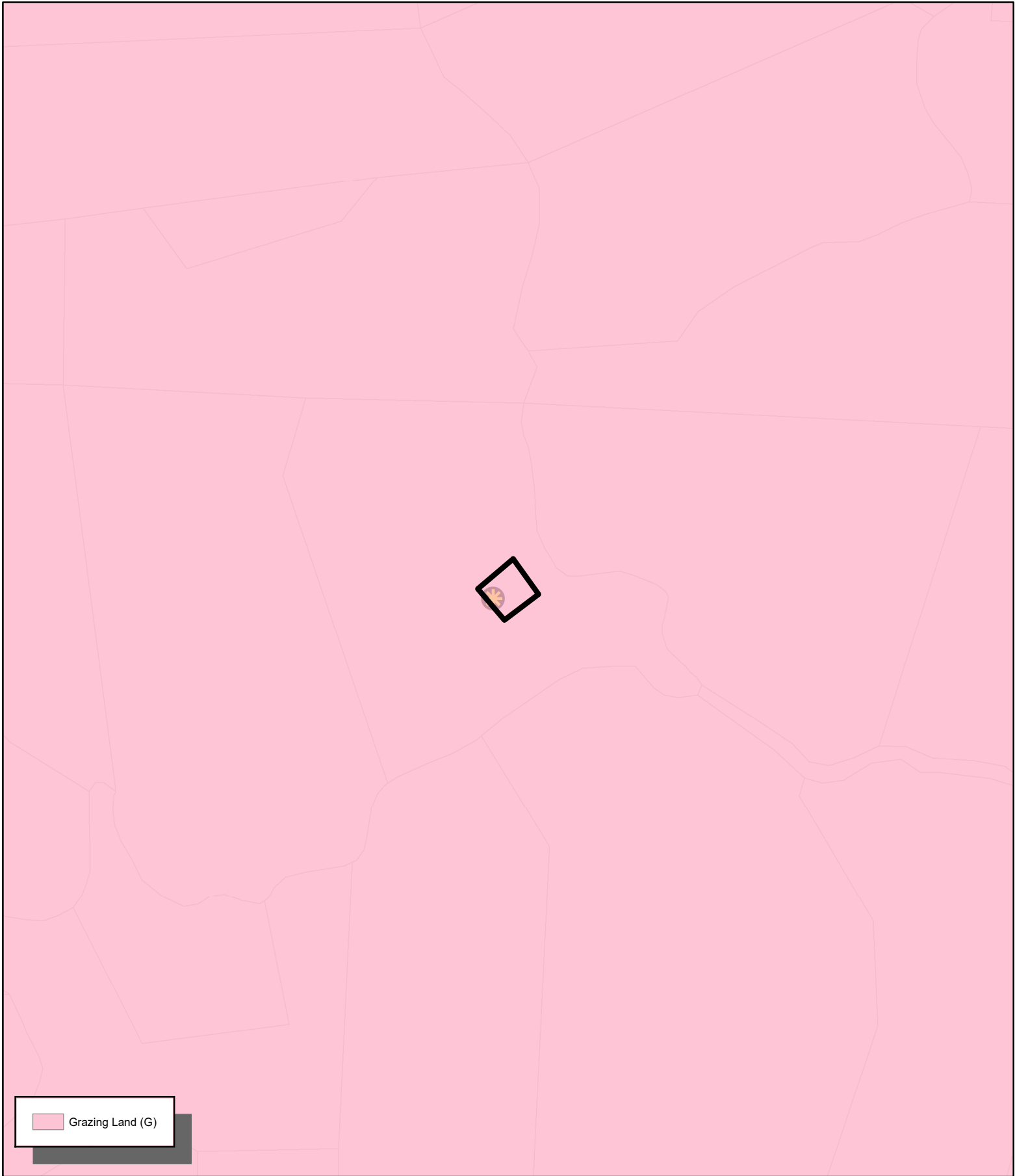
School Buildings



1:5,000


SCHOOL DISTRICT


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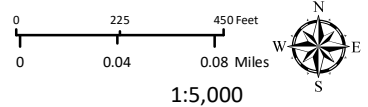


 Grazing Land (G)

CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
APN: 056-310-18
APLCT: T-Mobile West LLC
AGENT: T-Mobile West LLC
ADDRESS: 3750 Spyrock Rd.

 Assessors Parcels

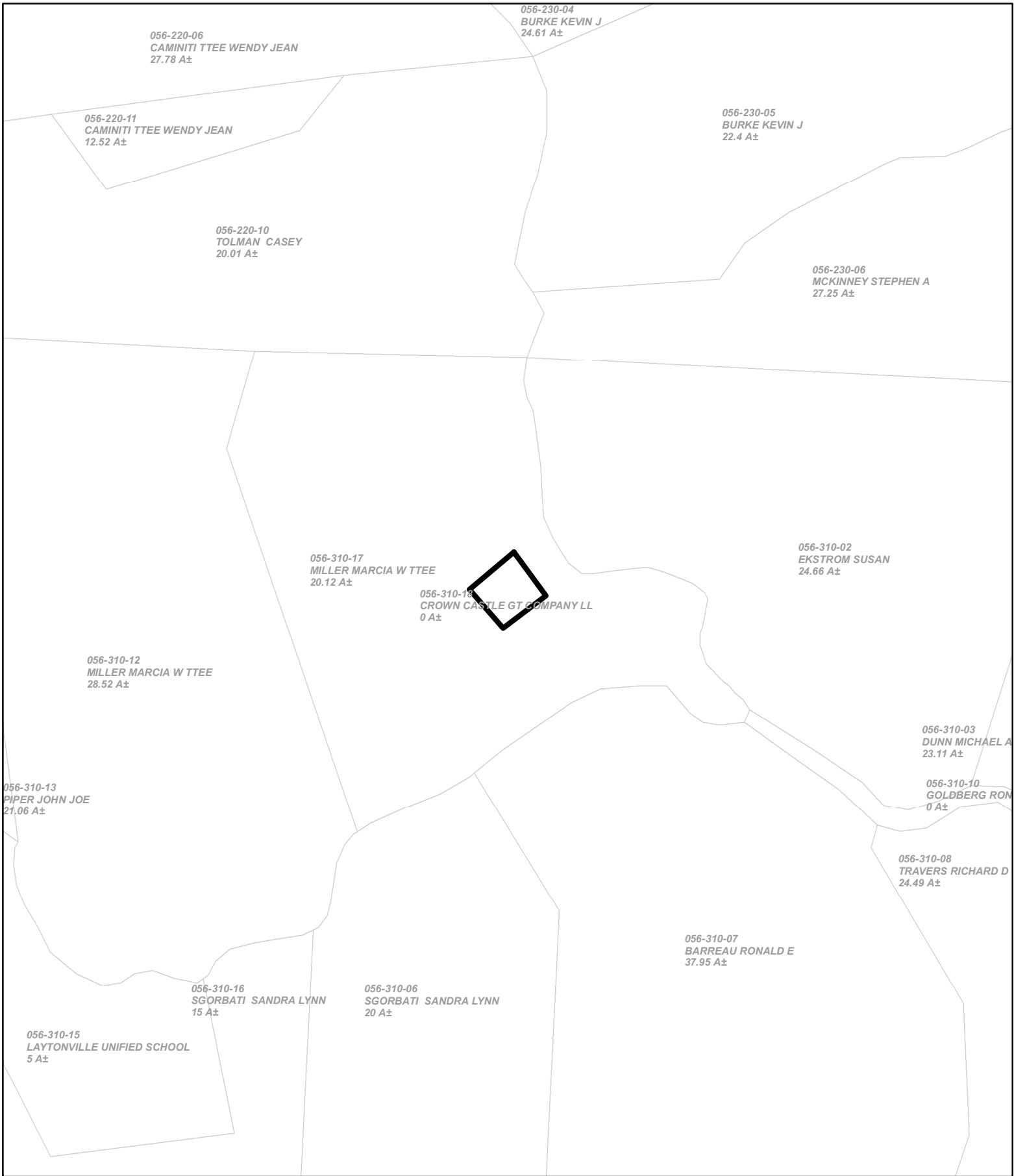
 Approved Wireless Sites




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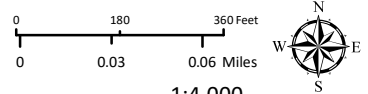
IMPORTANT FARMLANDS

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CASE: AP 2024-0029
OWNER: Crown Castle Inc. USA
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 Assessors Parcels



1:4,000

ADJACENT PARCELS

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