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
FB PHONE: 707-964-5379
FB FAX: 707-961-2427
pbs@mendocinocounty.gov
www.mendocinocounty.org/pbs

March 25, 2024

Department of Transportation
Environmental Health - Ukiah
Building Inspection - Ukiah
Assessor

Department of Forestry/ CalFire
-Land Use
Department of Fish and Wildlife
Cloverdale Rancheria
Potter Valley Tribe

Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Potter Valley Community Services

CASE#: AP_2024-0013
DATE FILED: 2/13/2024
OWNER: JOEL LLAMAS
APPLICANT/AGENT: VICTORIA CHHUN
REQUEST: Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the removal and replacement of three (3) antennas, one (1) microwave dish, three (3) T-arm mounts, lighting, and one (1) cabinet with two (2) cabinets. The modifications also include the installation of three (3) RRUs and various modifications to appurtenant equipment.
ENVIRONMENTAL DETERMINATION: Categorically Exempt
LOCATION: 1± mile northeast of Potter Valley, on the east side of Eel River Road (CR 240B) 0.6± miles north of its intersection with Main Street (CR 245), located at 12531 Eel River Road, Potter Valley; (APN: 175-010-10).
SUPERVISORIAL DISTRICT: 1
STAFF PLANNER: LIAM CROWLEY
RESPONSE DUE DATE: April 8, 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 _____

CASE: AP_2024-0013

OWNER: JOEL LLAMAS

APPLICANT/ AGENT: VICTORIA CHHUN

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LOCATION: 1± mile northeast of Potter Valley, on the east side of Eel River Road (CR 240B) 0.6± miles north of its intersection with Main Street (CR 245), located at 12531 Eel River Road, Potter Valley; (APN: 175-010-10).

APN/S: 175-010-10

PARCEL SIZE: 40± Acres

GENERAL PLAN: Rangeland (RL:160)

ZONING: Rangeland (R-L)

EXISTING USES: Wireless Communication Facility, Agriculture

DISTRICT: 1 (McGourty)

RELATED CASES: See below.

	ADJACENT GENERAL PLAN	ADJACENT ZONING	ADJACENT LOT SIZES	ADJACENT USES
NORTH:	Rangeland (RL:160)	Rangeland (R-L)	40± Acres	Agricultural
EAST:	Rangeland (RL:160)	Rangeland (R-L)	80± Acres	Agricultural
SOUTH:	Agricultural (AG:40)	Agricultural (A-G)	43± Acres	Agricultural
WEST:	Rangeland (RL:160)	Rangeland (R-L)	7± Acres	Agricultural

REFERRAL AGENCIES

LOCAL
- ☒ Air Quality Management District
- ☒ Assessor's Office
- ☒ Building Division (Ukiah)
- ☒ Department of Transportation (DOT)
- ☒ Environmental Health (EH)
- ☒ Potter Valley Community Services District

STATE
- ☒ CALFIRE (Land Use)
- ☒ California Dept. of Fish & Wildlife

TRIBAL
- ☒ Cloverdale Rancheria
- ☒ Potter Valley Tribe
- ☒ Redwood Valley Rancheria
- ☒ Sherwood Valley Band of Pomo Indians

ADDITIONAL INFORMATION: Related applications include the following:

- **AP_2022-0030:** Administrative Permit to replace an existing microwave unit along with two ODUs and various ancillary equipment to an existing sixty-five foot tall monopole. All work completed within the existing 2,304 square foot lease area. Approved 01/23/23.
- **AP_2020-0020:** Administrative Permit to add a 30 kW electricity generator with a 300 gallon belly tank that includes extended vents. Generator installed on a new five foot by ten foot concrete pad within the existing wireless communications lease area. Approved 09/28/2020.
- **UR_2019-0004:** Use Permit Renewal for continued operation of an existing 65 ft. tall cellular antenna tower with various antennae and ground based equipment located within a 2,455 sq. ft. lease area surrounded by fencing. No modifications are proposed with this renewal, as it serves to extend the expiration date. Approved 12/04/2019. This permit extended the expiration date of the underlying use permit to 07/16/2029.
- **AP_2017-0097:** Administrative Permit to add 6 new antennas and RRH units and one surge protector, mounted at the 46-foot centerline on an existing 65-foot tall monopole. Associated ground equipment will be located inside a 240 square-foot lease area located within the greater 2,500 square-foot lease area controlled by Crown Castle. Approved 02/05/2018.
- **AP_2016-0035:** Administrative Permit to replace remove and replace cross arms, install five (5) new antennas and reposition existing antennas to accommodate new antennas, install five (5) new RRUs, install one (1) DUS-41 with new 6601 V1 chassis with new DUS-41 in the exiting bottom of UMTS Purcell cabinet, install one (1) new surge suppressor, install two (2) new power trunks and one (1) new fiber trunk, install one (1) new DC12, install new pipe mounts for each new antenna position, relocate existing H-frame and existing RRUs mounted on H-frame, extend existing cable bridge to allocate new cable route, relocate existing GPS unit, and install one (1) new BBU with four (4) strings on an existing 65'0" monopole. Approved 02/16/2017.
- **AP_2016-0020:** Administrative Permit to add a backup generator and propane fuel tank to an existing Cell Tower facility. Approved 10/04/2016.
- **AP 34-2014:** Administrative Permit for installation of three (3) 8 foot tall antennas at the 55 foot level on an existing 65 foot tall monopole. Approved 02/06/2015.
- **AP 22-2014:** Administrative Permit to allow installation of one (1) microwave dish to an existing 65± foot tall monopole and installation of associated equipment. Approved 08/29/2014.
- **UM 16-2006/2009:** Use Permit Modification to allow for the addition of three (3) panel antennas and one (1) microwave dish to an existing 65 foot tall monopole and placement of a battery backup power system and four (4) equipment cabinets within a 2,500 square foot leased area. Approved 07/16/2009.
- **U 16-2006:** Use Permit to authorize construction and operation of a telecommunication facility to support a wireless provider (Edge Wireless), consisting of a 65-foot tall monopole, 12 panel antennas, a microwave dish, and ground-based equipment. Approved 07/19/2007.

STAFF PLANNER: LIAM CROWLEY **DATE:** 3/21/2024

ENVIRONMENTAL DATA

1. MAC:
GIS
None

2. FIRE HAZARD SEVERITY ZONE:
CALFIRE FRAP maps/GIS
High

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
Eastern Soil Map Unit No. 232

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
Yes

10. TIMBER PRODUCTION ZONE:
GIS
No

11. WETLANDS CLASSIFICATION:
GIS
Fluvial Natural Stream 580± feet south of site

12. EARTHQUAKE FAULT ZONE:
Earthquake Fault Zone Maps; GIS
No

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

Planning and Building Services

Case No:	
CalFire No:	
Date Filed:	
Fee:	
Receipt No:	
Received By:	

Office use only

APPLICATION FORM

APPLICANT
Name: Victoria Chhun Phone: 678-366-1259

Mailing Address: 8020 Katy Fwy

City: Houston State/Zip: TX/77024 email: Victoria.Chhun@crowncastle.com

PROPERTY OWNER
Name: GLOBAL SIGNAL ACQUISITIONS IV LLC Phone: 678-366-1259

Mailing Address: PO BOX 277455, ATLANTA, GA 30384-7455

City: Atlanta State/Zip: GA 30384 email:

AGENT
Name: Victoria Chhun Phone: 678-366-1259

Mailing Address: 8020 Katy Fwy Houston, TX 77024

City: State/Zip: email:

Parcel Size: 2304 SQ FT (Sq. feet/Acres) Address of Property: 12531 EEL RIVER ROAD, POTTER VALLEY, CA 95469

Assessor Parcel Number(s): 175-010-10-00

TYPE OF APPLICATION:

- ☐ Administrative Permit
- ☐ Agricultural Preserve
- ☐ Airport Land Use
- ☐ CDP- Admin
- ☐ CDP- Standard
- ☐ Certificate of Compliance
- ☐ Development Review
- ☐ Exception
- ☐ Flood Hazard
- ☐ General Plan Amendment
- ☐ Land Division-Minor
- ☐ Land Division- Major
- ☐ Land Division-Parcel
- ☐ Land Division-Resubdivision
- ☐ Modification of Conditions
- ☐ Reversion to Acreage
- ☐ Rezoning
- ☐ Use Permit-Cottage
- ☐ Use Permit-Minor
- ☐ Use Permit-Major
- ☐ Variance
- ☑ Other

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

Signature of Applicant/Agent	*Date*	*Signature of Owner*	*Date*
	02/12/2024		02/12/2024

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.

TOWER SCOPE OF WORK:
· REMOVE (3) ANTENNA'S
· REMOVE (6) TMA'S
· REMOVE (1) 4' MICROWAVE DISH
· REMOVE (6) 7/8" COAX CABLES
· REMOVE (3) T-ARM MOUNTS
· INSTALL (3) DOUBLE T-ARM ANTENNA MOUNTS
· INSTALL (3) ANTENNA'S
· INSTALL (3) RRU'S
· INSTALL (1) 2' MICROWAVE DISH
· INSTALL (2) 1-5/8" HCS 6X24 4AWG CABLES
GROUND SCOPE OF WORK:
· RELOCATE (2) BB 6630 & (1) DUG20 FROM (E) RBS 6102 TO NEW RBS 6160 CABINET
· REMOVE (1) RBS 6102 CABINET
· REMOVE (6) GENERIC AWS/PCS DIPLEXERS
· INSTALL (1) RBS 6160 CABINET W/: (1) RP 6651, (1) CSR IXRE V2 ROUTER & (1) RBS 6601
· INSTALL (1) B160 BATTERY CABINET
· INSTALL (1) HOFFMAN HCS CABLE WINDER/SLACK CAN ON (E) ICE BRIDGE POST UNISTRUT
· REPLACE (E) TECH LIGHTS W/ (N) LED TECH LIGHT

2. **Structures/Lot Coverage**	**Number of Units**		**Square Footage**		
	Existing	Proposed	Existing	Proposed	Total
☐ Single Family ☐ Mobile Home ☐ Duplex ☐ Multifamily ☑ Other: existing cell tower ☐ Other:	existing cell tower				
Total Structures Paved **Area Landscaped Area** **Unimproved Area**					
GRAND TOTAL (Equal to gross area of Parcel)					

3. If the project is commercial, industrial or institutional, complete the following:
existing cell tower, COMMERCIAL
Estimated employees per shift:_____
Estimated shifts per day:_____
Type of loading facilities proposed:_____

4. Will the proposed project be phased? ☐ Yes ☑ No If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads? ☐Yes ☑No Explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives? ☐Yes ☑No If yes, explain:

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

	Number	Size
Number of covered spaces		
Number of uncovered spaces		
Number of standard spaces		
Number of handicapped spaces		
Existing Number of Spaces		
Proposed Additional Spaces		
Total		

8. Is any road construction or grading planned? ☐Yes ☐No If yes, grading and drainage plans may be required. Also, describe the terrain to be traversed (e.g., steep, moderate slope, flat, etc.).
NA

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

A. Amount of cut_____ cubic yards
B. Amount of fill_____ cubic yards
C. Maximum height of fill slope_____ feet
D. Maximum height of cut slope_____ feet
E. Amount of import or export_____ cubic yards
F. Location of borrow or disposal site_____

10. Does the project involve sand removal, mining or gravel extraction? ☐Yes ☑No
If yes, detailed extraction, reclamation and monitoring plans may be required?

11. Will the proposed development convert land currently or previously used for agriculture to another use?
☐Yes ☑No
If yes, how many acres will be converted?_____acres. An agricultural economic feasibility study may be required.

12. Will the development provide public or private recreational opportunities? ☐Yes ☑No
If yes, explain below:

_____

_____

_____

_____

13. Is the proposed development visible from State Highway 1 or other scenic route?
☐Yes ☑No

14. Is the proposed development visible from a park, beach or other recreational area?
☐Yes ☑No

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

Diking : ☐Yes ☑No
Filling: ☐Yes ☑No
Dredging: ☐Yes ☑No

Placement of structures in:
☐open coastal waters
☐wetlands
☐estuaries
☐lakes

If so, amount of material to be dredged or filled?_____cubic yards.

Location of dredged material disposal site?_____

Has a U.S. Army Corps of Engineers permit been applied for? ☐Yes ☐No

16. Will there be any exterior lighting? ☑Yes ☐No If yes, describe below and identify the location of all exterior lighting on the plot plan and building plans.
REPLACE (E) TECH LIGHTS W/ (N) LED TECH LIGHT _____

_____

17. Utilities will be supplied to the site as follows:
A. Electricity:
☐Utility Company (service exists to the parcel)
☐Utility Company (requires extension of service to site:_____feet _____miles)
☐On Site Generation - Specify:_____
B. Gas:
☐Utility Company/Tank
☐On Site Generation - Specify:_____
☐None
C. Telephone: ☐Yes ☐No

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?
☐Yes ☑No If yes, explain (e.g., 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? ☐Yes ☑No
If yes, describe below, and identify the use of each structure on the plot plan or tentative map if the proposal is for a subdivision.

24. Will any existing structures be demolished or removed? ☐Yes ☑No
If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

25. Project Height. Maximum height of existing structures_____feet. Maximum height of proposed structures_____feet.

26. Gross floor area of existing structures____square feet (including covered parking and accessory buildings). Gross floor area of proposed structures_____square feet (including covered parking and accessory buildings).

27. Lot area (within property lines):___ ☐square feet ☐acres.

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful.

29. Briefly describe the surrounding properties, including information on plants, animals and any cultural, historic or scenic aspects. Indicate the type of land use (use chart below) and its general intensity. Attach any photographs of the vicinity that you feel would be helpful.

30. Indicate the surrounding land uses:

	North	East	South	West
Vacant				
Residential Agricultural				
Commercial Industrial				
Institutional Timberland				
Other				

T-Mobile

T-MOBILE SITE NUMBER: SF40959A
T-MOBILE SITE NAME: CROWN: AT&T NEW POTTER VALLEY
T-MOBILE PROJECT: ANCHOR

BUSINESS UNIT #: 857683
SITE ADDRESS: 12531 EEL RIVER ROAD, POTTER VALLEY, CA 95469
COUNTY: MENDOCINO
SITE TYPE: MONOPOLE
TOWER HEIGHT: 65'-0"

SITE INFORMATION

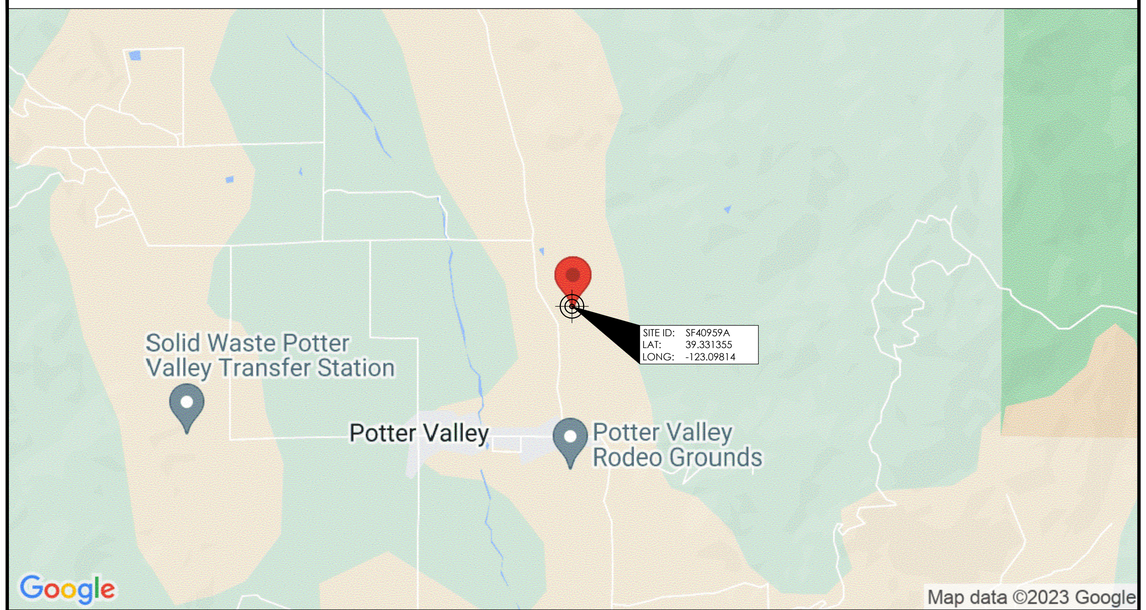
CROWN CASTLE USA INC. SITE NAME:	CA371 - POTTER VALLEY
SITE ADDRESS:	12531 EEL RIVER ROAD POTTER VALLEY, CA 95469
COUNTY:	MENDOCINO
MAP/PARCEL #:	17501010
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	39.331355
LONGITUDE:	-123.09814
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	1080.0'
CURRENT ZONING:	RL
JURISDICTION:	COUNTY OF MENDOCINO
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	LLAMAS JOEL 300 GOLD GULCH RD UKIAH, CA 95482
TOWER OWNER:	CROWN CASTLE USA, INC. 1 PARK PLACE, SUITE 300 DUBLIN, CA 94568
CARRIER/APPLICANT:	T-MOBILE 1200 CONCORD AVE., SUITE 500 CONCORD, CA 94520
ELECTRIC PROVIDER:	PACIFIC GAS & ELECTRIC (800) 743-5000
TELCO PROVIDER:	AT&T (844) 288-2020

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	OVERALL SITE PLAN
C-1.1	ENLARGED SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2 - C-2.1	TOWER ELEVATIONS
C-3	ANTENNA PLANS
C-4	EXISTING EQUIPMENT SCHEDULE
C-4.1	FINAL EQUIPMENT SCHEDULE
C-5	ANTENNA, RRU SPECS & MOUNTING DETAILS
C-6	COMMSCOPE VHLPX2-11W/B MICROWAVE SPECS
C-7	ERICSSON RBS 6160 & B160 CABINET SPECS
C-8	CABINET ANCHOR DETAIL & BATTERY SPECS
C-9	EQUIPMENT, LED LIGHT & HCS CABLE SPECS
C-10	HCS CABLE WINDER/SLACK CAN SPECS
C-11 - C-11.1	SITE PRO 1 ANTENNA MOUNT SPECIFICATIONS
E-1	PANEL SCHEDULE & ONE-LINE DIAGRAM
G-1	EQUIPMENT GROUNDING PLAN
G-2	ANTENNA GROUNDING SCHEMATIC
G-3 - G-4	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



NO SCALE

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

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

811

PROJECT DESCRIPTION

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

TOWER SCOPE OF WORK:
- REMOVE (3) ANTENNA'S
- REMOVE (6) TMA'S
- REMOVE (1) 4' MICROWAVE DISH
- REMOVE (6) 7/8" COAX CABLES
- REMOVE (3) T-ARM MOUNTS
- INSTALL (3) DOUBLE T-ARM ANTENNA MOUNTS
- INSTALL (3) ANTENNA'S
- INSTALL (3) RRU'S
- INSTALL (1) 2' MICROWAVE DISH
- INSTALL (2) 1-5/8" HCS 6X24 4AWG CABLES

GROUND SCOPE OF WORK:
- RELOCATE (2) BB 6630 & (1) DUG20 FROM (E) RBS 6102 TO NEW RBS 6160 CABINET
- REMOVE (1) RBS 6102 CABINET
- REMOVE (6) GENERIC AWS/PCS DIPLEXERS
- INSTALL (1) RBS 6160 CABINET W/: (1) RP 6651, (1) CSR IXRE V2 ROUTER & (1) RBS 6601
- INSTALL (1) B160 BATTERY CABINET
- INSTALL (1) HOFFMAN HCS CABLE WINDER/SLACK CAN ON (E) ICE BRIDGE POST UNISTRUT
- REPLACE (E) TECH LIGHTS W/ (N) LED TECH LIGHT

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 (CFE)/2021 IFC

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

ELECTRICAL NOTES:
POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGE IS TO BE PERFORMED BY OTHERS AND IS SHOWN REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	MORRISON HERSHFIELD
DATED:	12/14/23
MOUNT ANALYSIS:	TRYLON
DATED:	12/06/2023
RFDS REVISION:	6
DATED:	01/18/24
ORDER ID:	657872
REVISION:	1

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBU
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: T-1

REVISION: 0

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 RESCUE PLANS 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.

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.
8. 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.
13. 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. VERYIFY 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 TIE 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/IEEE 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. 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, 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/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE 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 ROUTE AROUND 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.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (-)	BLACK**

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

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

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
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
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

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-POTENTAL 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 2/0 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).

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

T-MOBILE SITE NUMBER:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

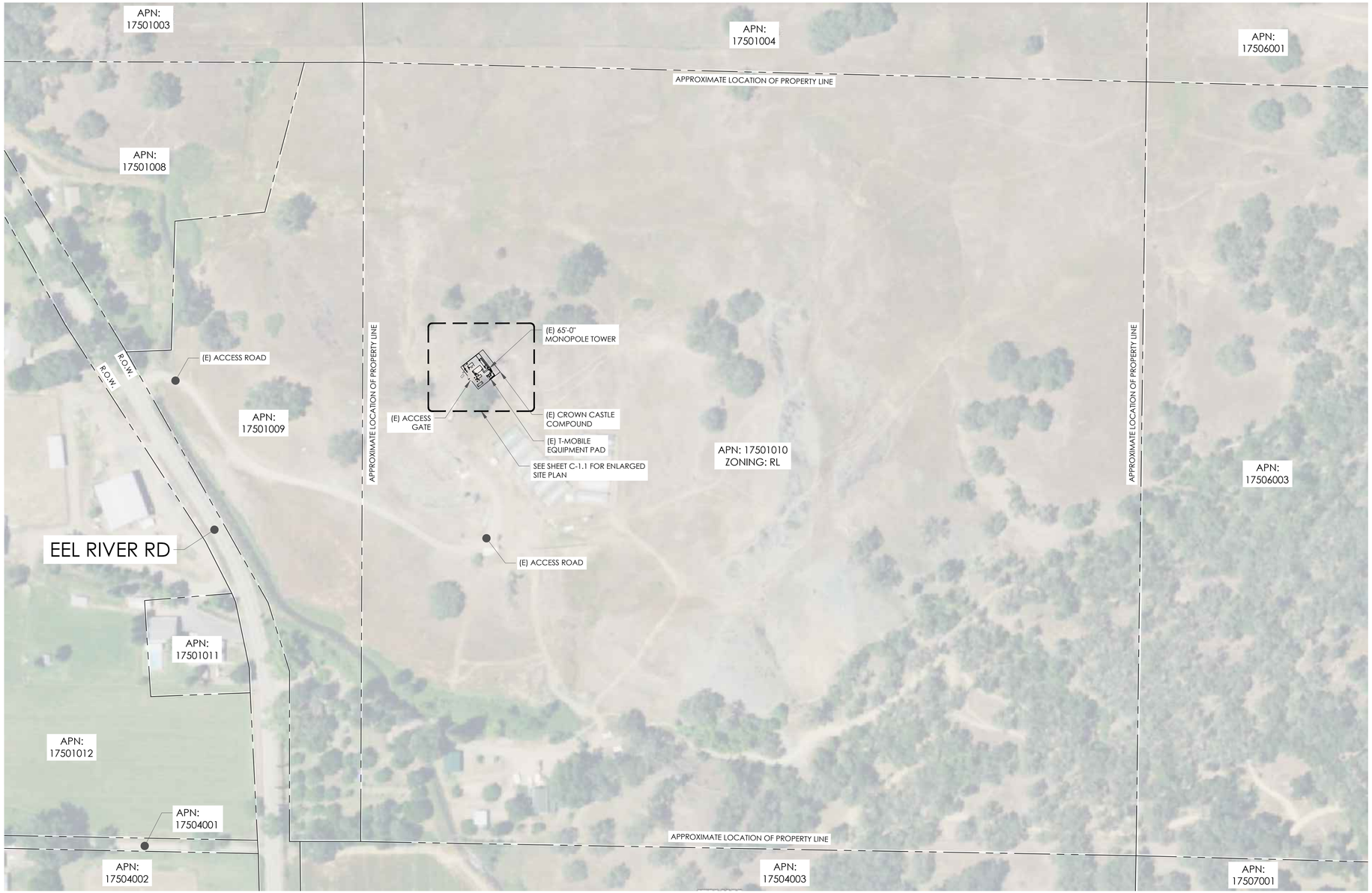
REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

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.



1 OVERALL SITE PLAN

SCALE: 100' 50' 0 100' — 1" = 100'-0" (FULL SIZE) / 1" = 200'-0" (11x17)

N

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T-MOBILE SITE NUMBER:
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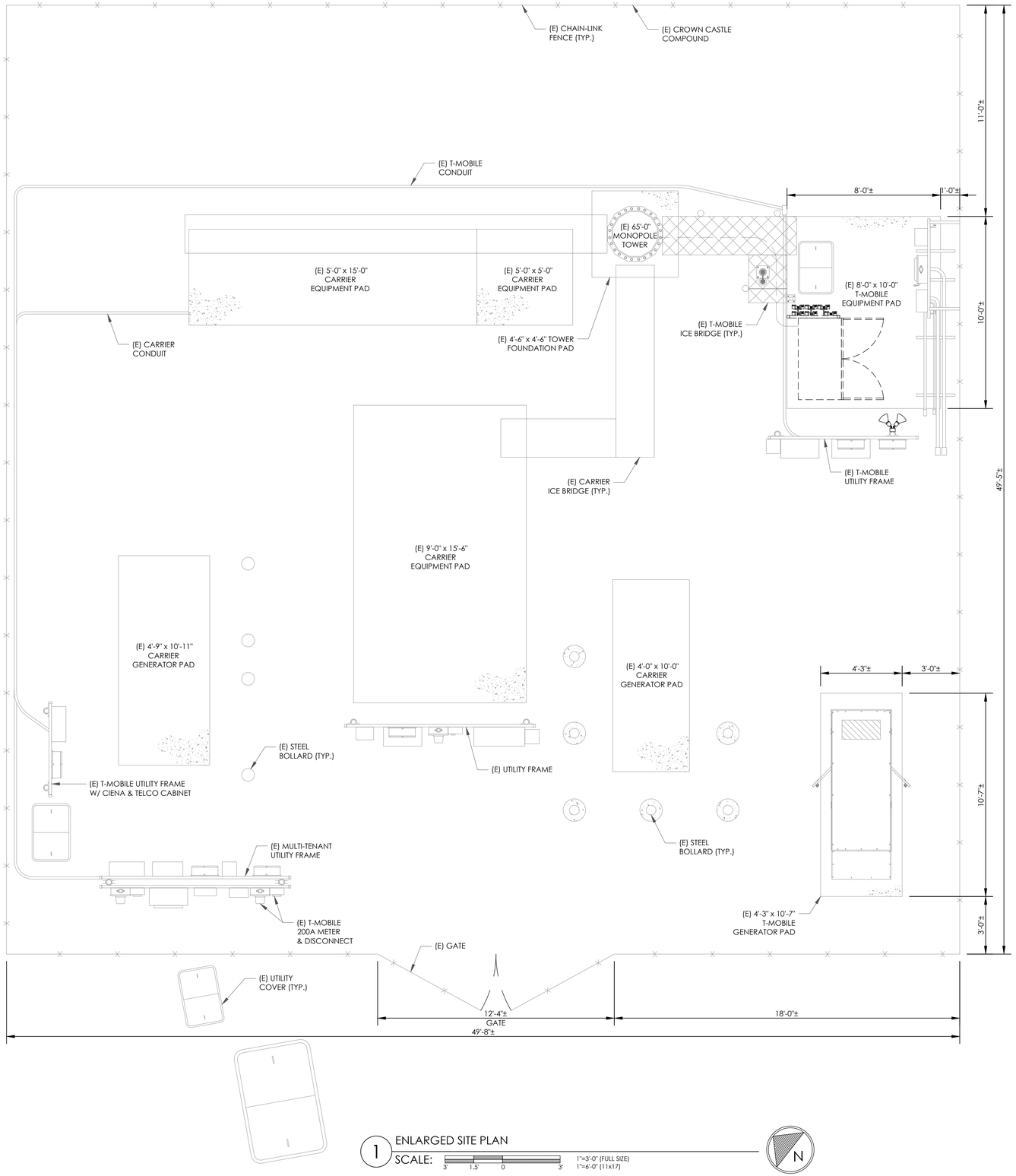
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA

02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-1

REVISION: 0



1 ENLARGED SITE PLAN

SCALE: 3" 1.5" 0 3" 1"=3'-0" (FULL SIZE) 1"=6'-0" (11x17)

N

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T-MOBILE SITE NUMBER:
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CROWN: AT&T NEW POTTER VALLEY

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POTTER VALLEY, CA 95469

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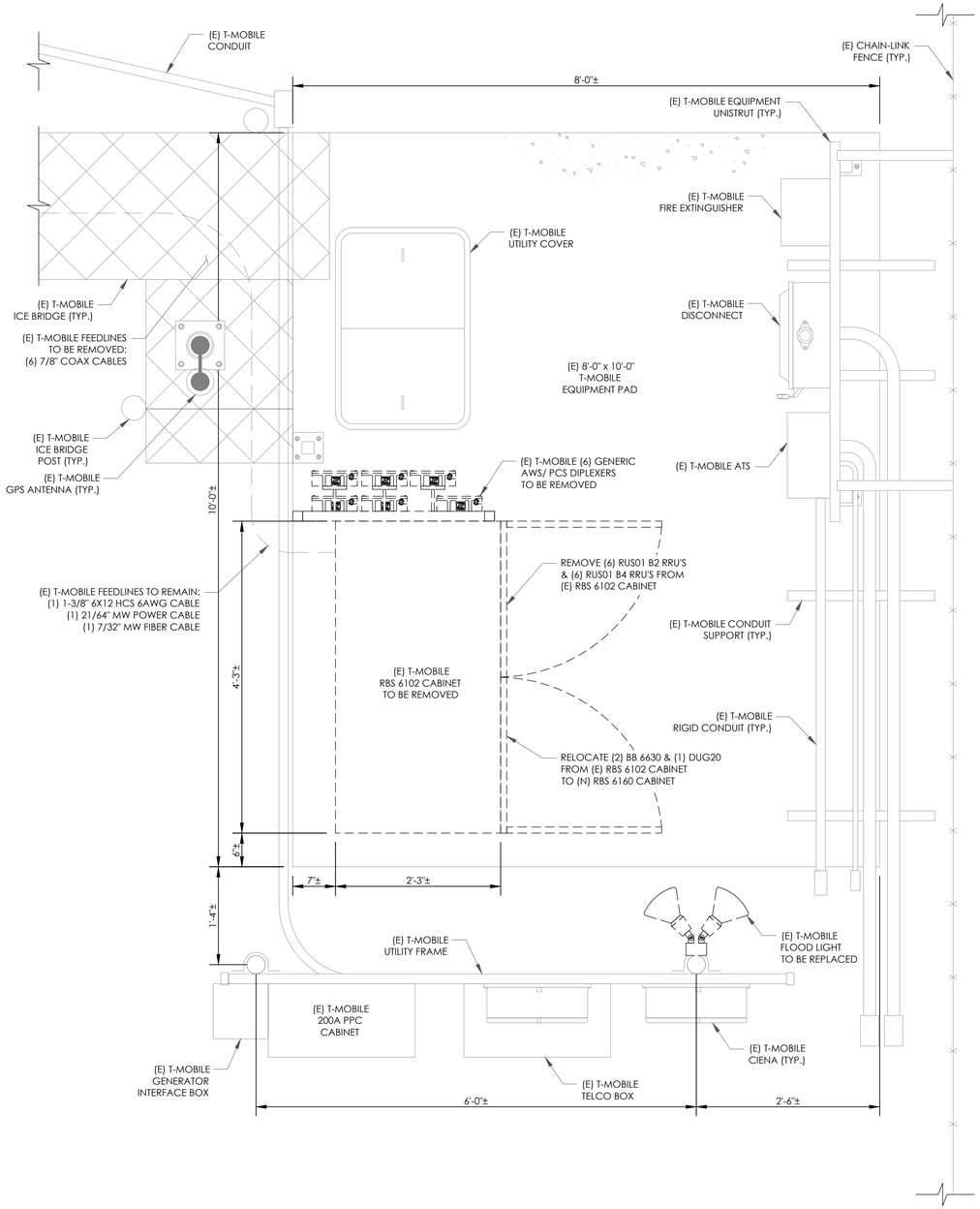
REVISION: 0

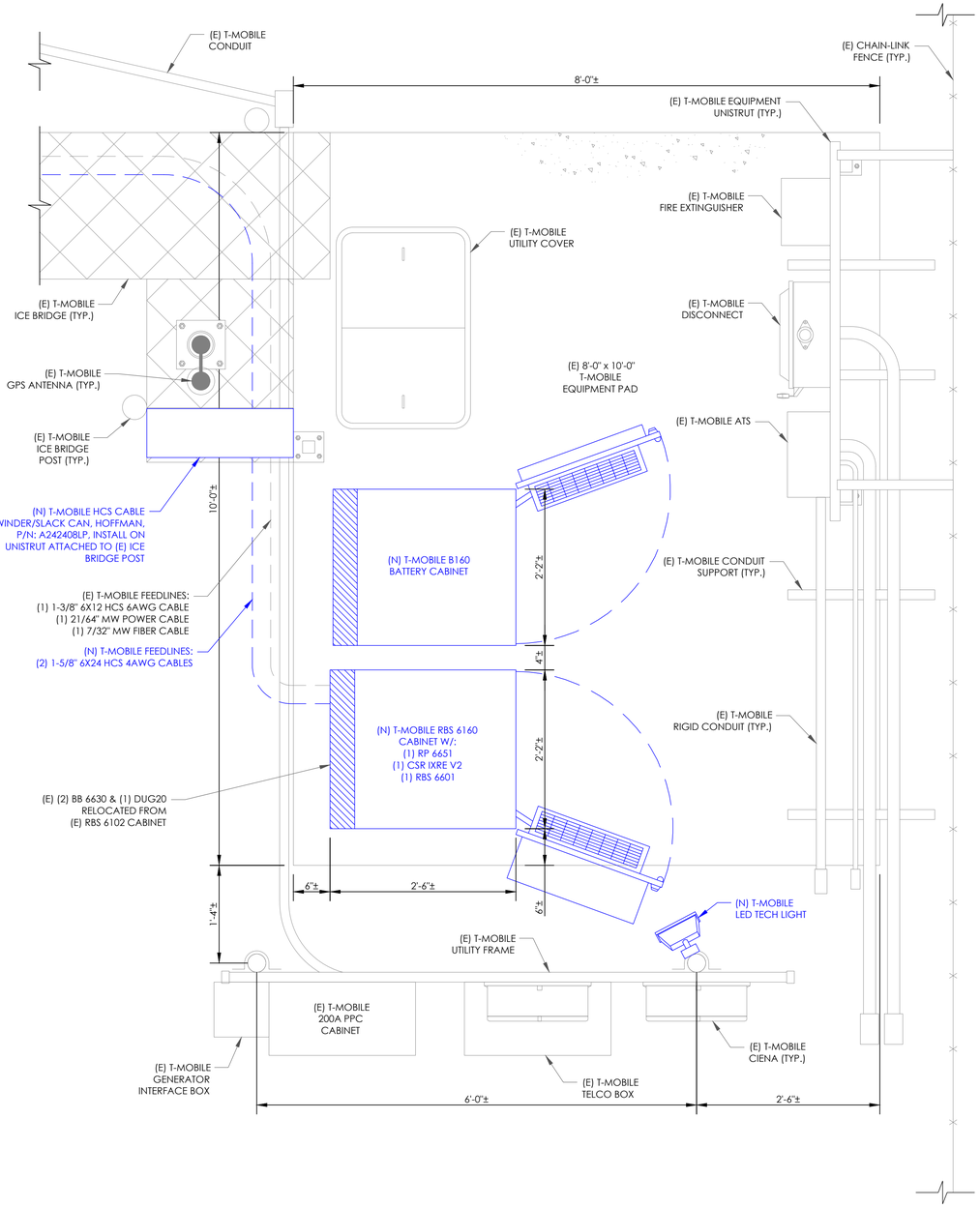


1 EXISTING EQUIPMENT PLAN
SCALE: 1" 6" 0 1" 1"=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N

ELECTRICAL NOTES:

1. POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGE IS TO BE PERFORMED BY OTHERS AND IS FOR REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.
2. ALL NEW AC POWER CONDUITS TO BE RIDGE CONDUITS.
3. GC TO FOLLOW THE 6160 & B160 INSTALLATION GUIDELINES.
4. GC TO FIELD VERIFY TECH LIGHTING AND IF NEEDED, CHANGE OUT TO LED LUMINARIE W/ 90-MINUTE TIMER SWITCH.



2 NEW EQUIPMENT PLAN
SCALE: 1" 6" 0 1" 1"=1'-0" (FULL SIZE) 1/2"=1'-0" (11x17)

N

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ANDREI BARBA
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STATE OF CALIFORNIA
02/01/2024

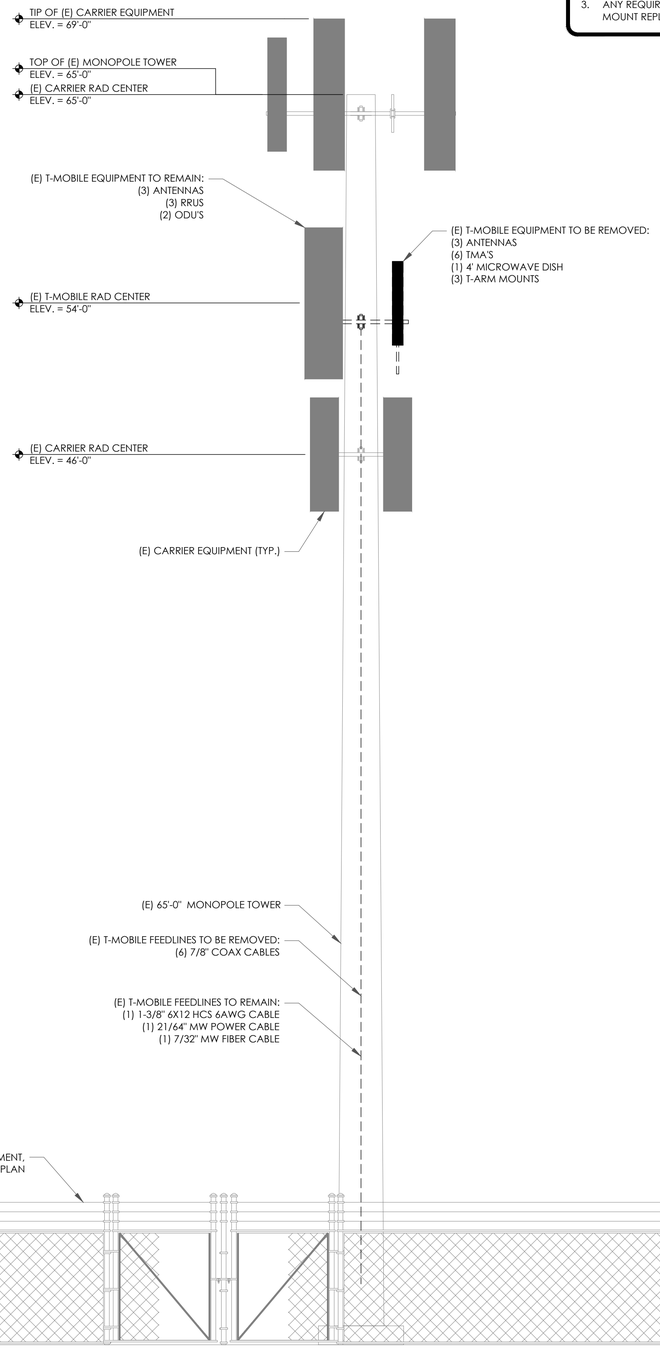
PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-1.2

REVISION: 0

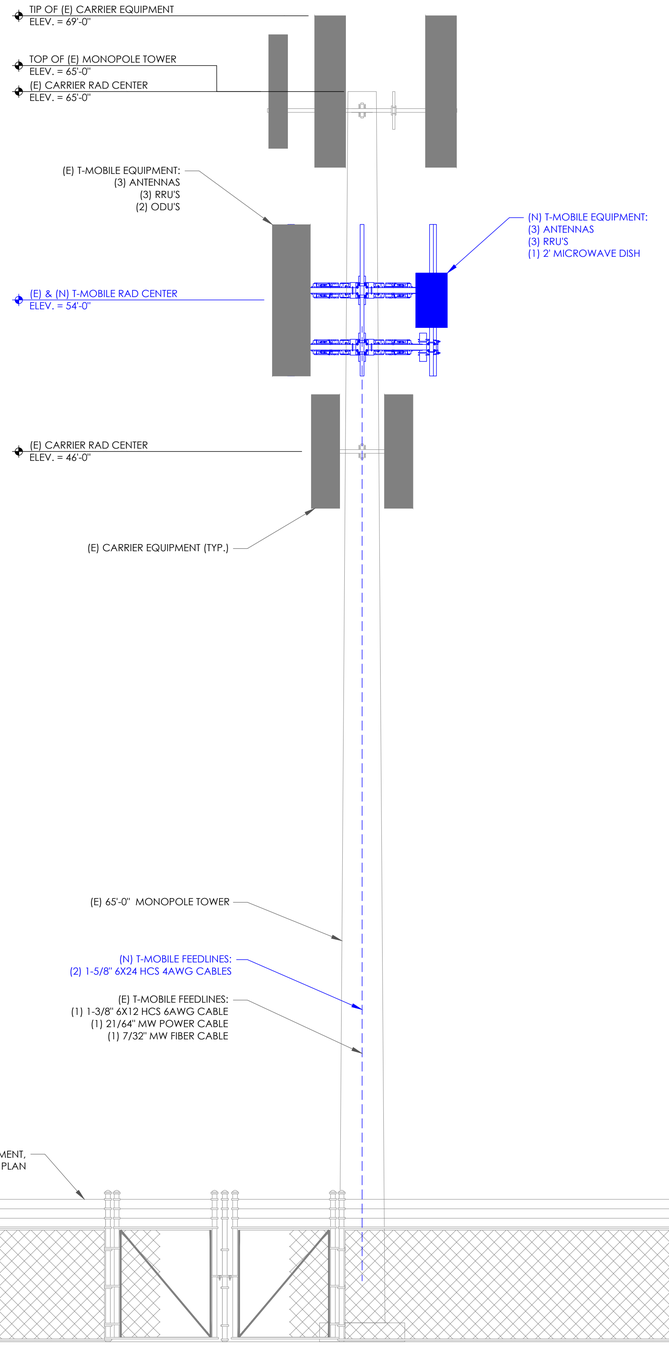
STRUCTURAL ANALYSIS & INSTALLATION NOTES:

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-WEST ELEVATION

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)



2 NEW SOUTH-WEST ELEVATION

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

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ANDREI BARSA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-2

REVISION: 0

STRUCTURAL ANALYSIS & INSTALLATION NOTES:

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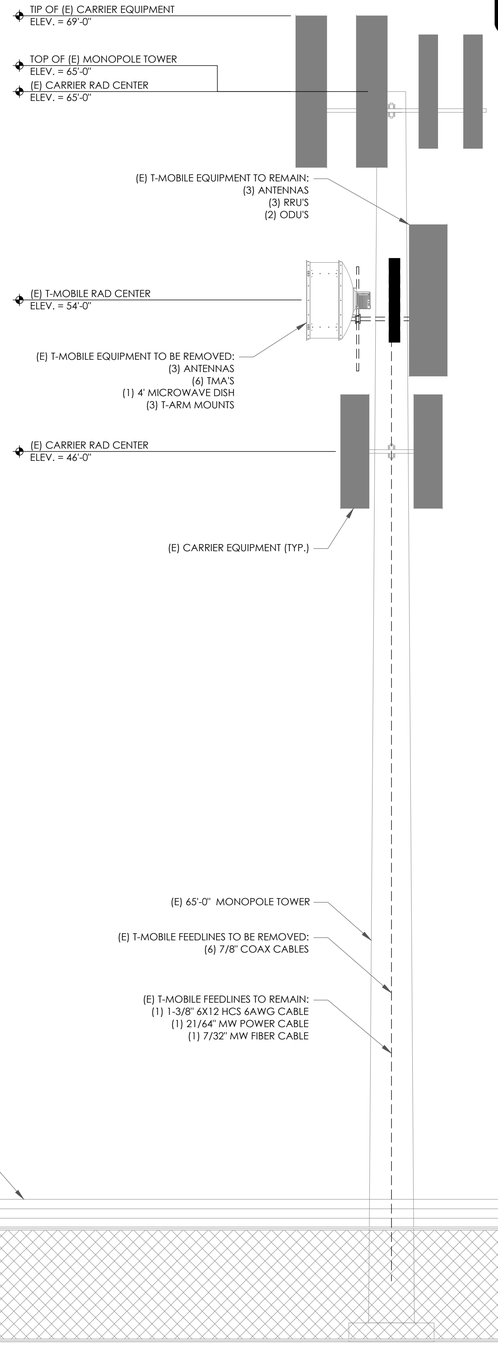
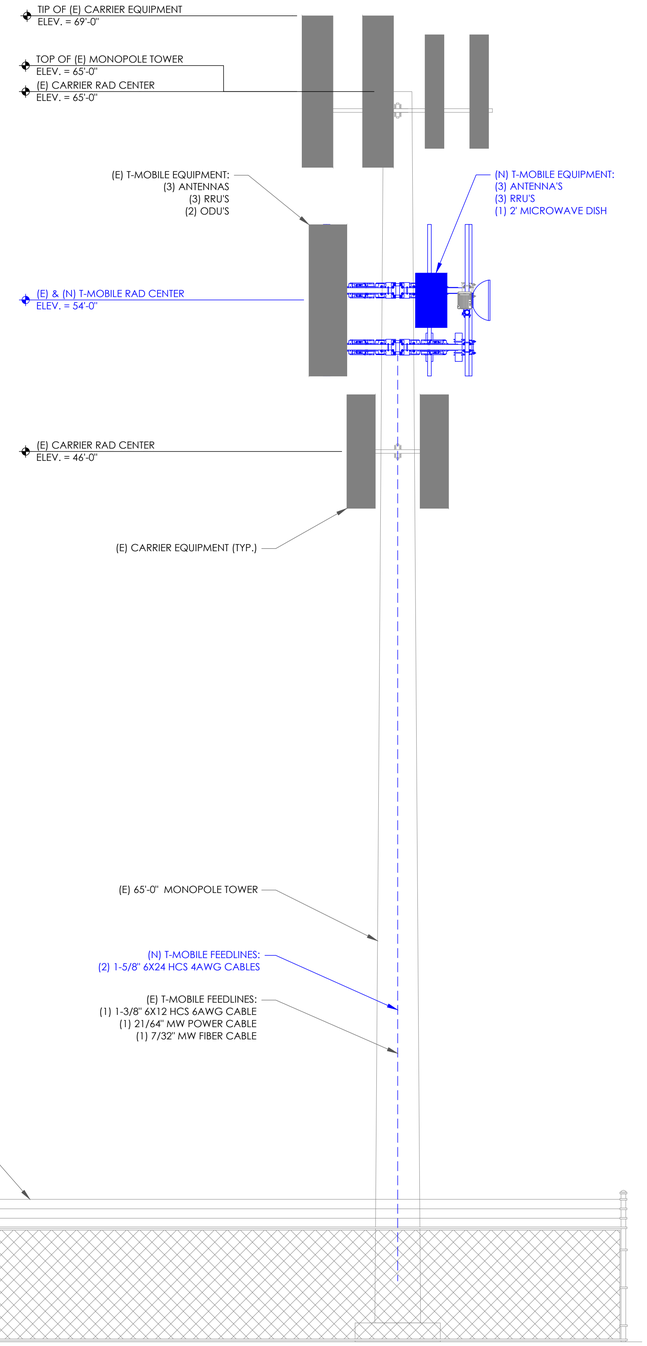


1 EXISTING SOUTH-EAST ELEVATION

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)



2 NEW SOUTH-EAST ELEVATION

SCALE: 4' 3' 2' 1' 0 4' 1/4"=1'-0" (FULL SIZE) 1/8"=1'-0" (11x17)

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C87623
CIVIL
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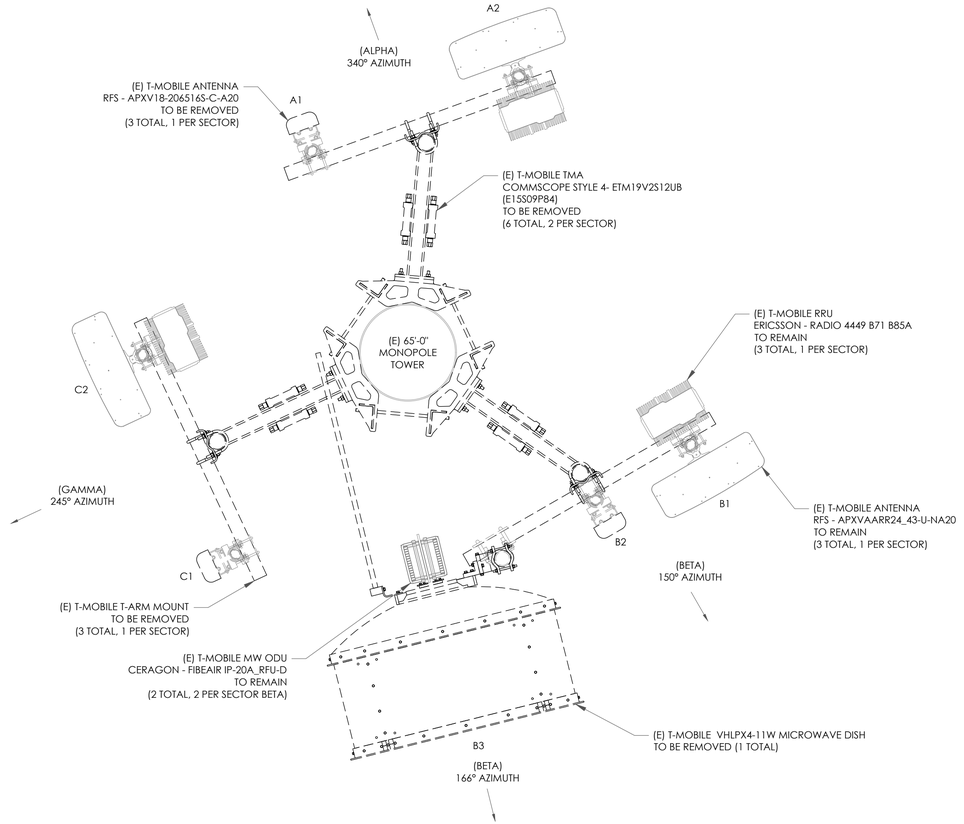
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-2.1

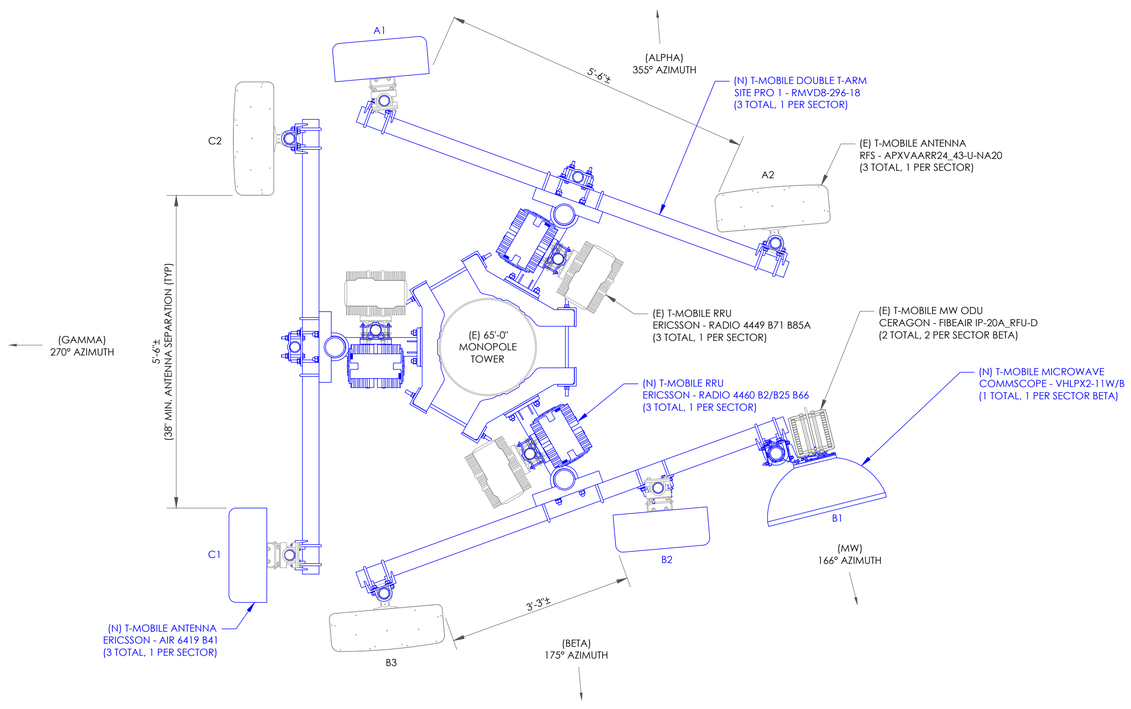
REVISION: 0



1 EXISTING ANTENNA PLAN

SCALE: 1" 6" 0 1" — 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N



2 NEW ANTENNA PLAN

SCALE: 1" 6" 0 1" — 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N

"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 RFDS FOR FINAL EQUIPMENT SCHEDULE.
2. REFERENCE C-5 FOR NEW EQUIPMENT SPECIFICATIONS.
3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.

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.

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HOUSTON, TX 77024
OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

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REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-3

REVISION: 0

EXISTING EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
ALPHA																		
A1	L1900/ L2100/ G1900	(E) RFS - APXV18-206516S-C-A20	340°	54'-0"	-	-	-	-	-	-	2	(E) COMMSCOPE STYLE 4 - ETM19V2S12UB (E15S09P84)	-	-	2	COAX CABLES	7/8"	105'
A2	L700/ N600	(E) RFS - APXVAARR24_43-U-NA20	340°	54'-0"	1	(E) RADIO 4449 B71 B85A	A2	-	-	-	-	-	-	-	1	6X12 HCS	1-3/8"	30M
BETA																		
B1	L1900/ L2100/ G1900	(E) RFS - APXVAARR24_43-U-NA20	150°	54'-0"	1	(E) RADIO 4449 B71 B85A	B1	-	-	-	-	-	-	-	-	SHARED 6X12 HCS	-	-
B2	L2100/ G1900	(E) RFS - APXV18-206516S-C-A20	150°	54'-0"	-	-	-	-	-	-	2	(E) COMMSCOPE STYLE 4 - ETM19V2S12UB (E15S09P84)	-	-	2	COAX CABLES	7/8"	105'
B3	-	(E) COMMSCOPE - VHLPX4-11W	166°	54'-0"	2	(E) FIBEAIR IP-20A_RFU-D	B3	-	-	-	-	-	-	-	1 1	POWER CABLE FIBER CABLE	21/64" 7/32"	105' 105'
GAMMA																		
C1	L1900/ L2100/ G1900	(E) RFS - APXV18-206516S-C-A20	245°	54'-0"	-	-	-	-	-	-	2	(E) COMMSCOPE STYLE 4 - ETM19V2S12UB (E15S09P84)	-	-	2	COAX CABLES	7/8"	105'
C2	L700/ N600	(E) RFS - APXVAARR24_43-U-NA20	245°	54'-0"	1	(E) RADIO 4449 B71 B85A	C2	-	-	-	-	-	-	-	-	SHARED 6X12 HCS	-	-

1 EXISTING EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

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BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

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REGISTERED PROFESSIONAL ENGINEER
ANDREI BARSA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-4

REVISION: 0

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
ALPHA																		
A1	N2500	(N) ERICSSON - AIR 6419 B41	355°	54'-0"	-	-	-	-	-	-	-	-	-	-	1	(N) 6X24 HCS	1-5/8"	30M
A2	L700/ N600/ L2100/ L1900/ G1900/ N1900	(E) RFS - APXVAARR24_43-U-NA20	355°	54'-0"	1 1	(E) RADIO 4449 B71 B85A (N) RADIO 4460 B2 B25 B66	A2	-	-	-	-	-	-	-	1 1	(E) 6X12 HCS (N) 6X24 HCS	1-3/8" 1-5/8"	30M 30M
BETA																		
B1	-	(N) COMMSCOPE - VHLPX2-11W/B	166°	54'-0"	2	(E) FIBEAIR IP-20A_RFU-D	B1	-	-	-	-	-	-	-	1 1	(E) POWER CABLE (E) FIBER CABLE	21/64" 7/32"	105' 105'
B2	N2500	(N) ERICSSON - AIR 6419 B41	175°	54'-0"	-	-	-	-	-	-	-	-	-	-	-	(N) SHARED 6X24 HCS	-	-
B3	L700/ N600/ L2100/ L1900/ G1900/ N1900	(E) RFS - APXVAARR24_43-U-NA20	175°	54'-0"	1 1	(E) RADIO 4449 B71 B85A (N) RADIO 4460 B2 B25 B66	B3	-	-	-	-	-	-	-	- -	(E) SHARED 6X12 HCS (N) SHARED 6X24 HCS	- -	- -
GAMMA																		
C1	N2500	(N) ERICSSON - AIR 6419 B41	270°	54'-0"	-	-	-	-	-	-	-	-	-	-	-	(N) SHARED 6X24 HCS	-	-
C2	L700/ N600/ L2100/ L1900/ G1900/ N1900	(E) RFS - APXVAARR24_43-U-NA20	270°	54'-0"	1 1	(E) RADIO 4449 B71 B85A (N) RADIO 4460 B2 B25 B66	C2	-	-	-	-	-	-	-	- -	(E) SHARED 6X12 HCS (N) SHARED 6X24 HCS	- -	- -

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

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

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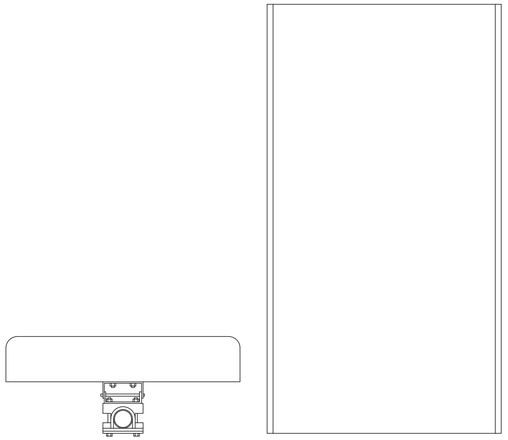
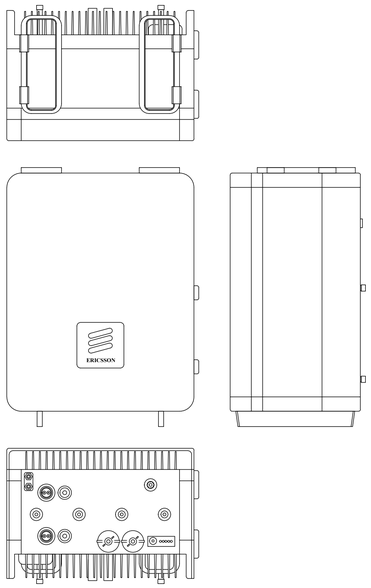
SHEET NUMBER: C-4.1

REVISION: 0



ERICSSON - AIR 6419 B41
WEIGHT (WITHOUT MOUNTING HARDWARE): 81.84 LBS
SIZE (HXWXD): 34.49X19.92X7.99IN.

1 ERICSSON - AIR 6419 B41
SCALE: NOT TO SCALE

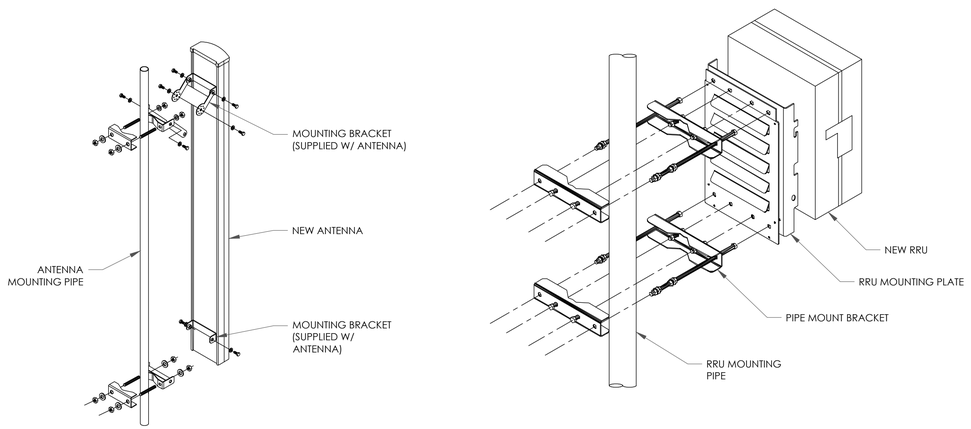


ERICSSON - RADIO 4460 B25+B66
WEIGHT: 109.0 LBS
SIZE (HxWxD): 17.0X15.1X11.9 IN.

2 ERICSSON - RADIO 4460 B25+B66
SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRU'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRU PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



3 ANTENNA & RRU MOUNTING DETAIL
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-5

REVISION: 0

VHLPX2-11W/B

0.6m | 2 ft ValuLine® High Performance Antenna, dual polarized, 10.000 – 11.700 GHz

Product Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
Polarization	Dual
Side Struts, Included	0
Side Struts, Optional	0

Dimensions

Diameter, nominal	0.6 m | 2 ft

Electrical Specifications

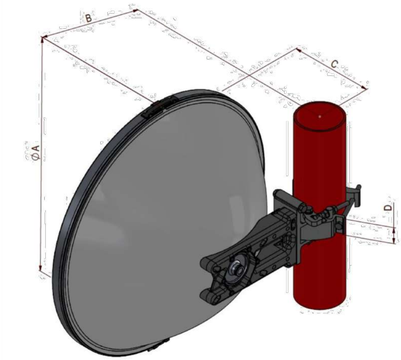
Operating Frequency Band	10.000 – 11.700 GHz
Gain, Low Band	33.7 dBi
Gain, Mid Band	34.5 dBi
Gain, Top Band	35.2 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	61 dB
Beamwidth, Horizontal	3.3 °
Beamwidth, Vertical	3.3 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7212B | 7213B
Electrical Compliance	ACMA FX03_10b | ACMA FX03_11b | Brazil Anatel Class 3 | Canada SRSP 310.7 Part B | ETSI 302 217 Class 3 | US FCC Part 101A | US FCC Part 101B

VHLPX2-11W/B

Mechanical Specifications

Compatible Mounting Pipe Diameter	48 mm–120 mm | 1.9 in–4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	201 km/h | 124.896 mph
Wind Speed, survival	252 km/h | 156.585 mph

Antenna Dimensions and Mounting Information



Dimensions in Inches (mm)				
Antenna Size, ft (m)	A	B	C	D
2 (0.6)	25.9 (680)	12.2 (310)	8.9 (228)	1.8 (45)

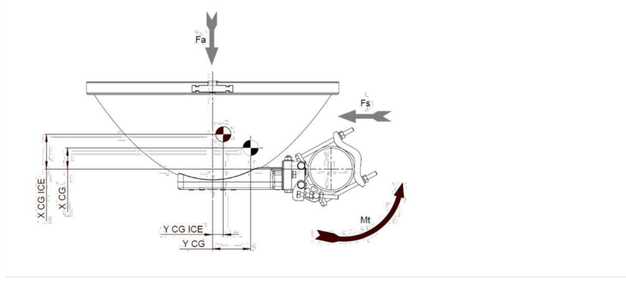
Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	1400 N | 314.733 lbf

VHLPX2-11W/B

Angle α for MT Max	-50 °
Side Force (FS)	-350 N | -78.683 lbf
Twisting Moment (MT)	500 N-m | 4,425.373 in lb
Zcg without Ice	55 mm | 2.165 in
Zcg with 1 in (25 mm) Radial Ice	91 mm | 3.583 in
Weight with 1 in (25 mm) Radial Ice	20 kg | 44.092 lb

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net	5.75 kg | 12.677 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations

1 COMMSCOPE VHLPX2-11W/B MICROWAVE SPECS
SCALE: NOT TO SCALE

T-Mobile

1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

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

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

T-MOBILE SITE NUMBER:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARSA
C87623
STATE OF CALIFORNIA
CIVIL
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-6

REVISION: 0

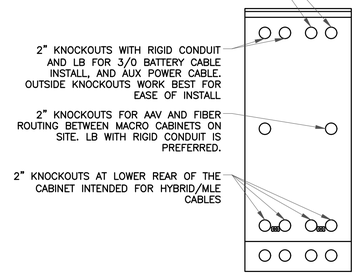
EQUIPMENT NOTES:

HEIGHTxWIDTHxDEPTH: 63.0" x 26.0" x 34.0"

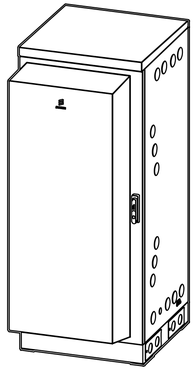
WEIGHT (EMPTY): 320 LBS

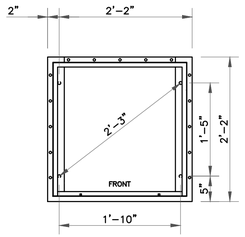
WEIGHT (FULLY LOADED W/ BATTERIES): 1500 LBS

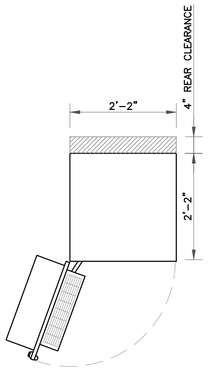
RACK ASSIGNMENT		
RACK	RUSLOT	DESCRIPTION
FULL RACK	1	RECTIFIER SHELF
	2	
	3	
	4	
	5	RECTIFIER
	6	
	7	FIBER BOX
	8	DCDU
	9	CSR/IXR-e
	10	
	11	1ST BASEBAND
	12	2ND BASEBAND
	13	3RD BASEBAND
	14	4TH BASEBAND
	15	5TH BASEBAND
	16	6TH BASEBAND
	17	7TH BASEBAND
	18	8TH BASEBAND
	19	
	20	LEGACY BASEBAND
	21	
	22	PSU 4813
	23	
	24	
	25	



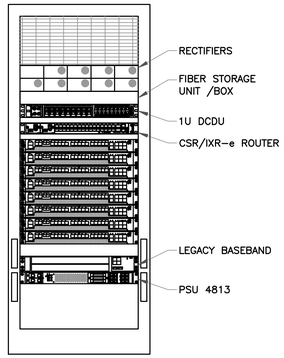
REAR VIEW


ISO VIEW

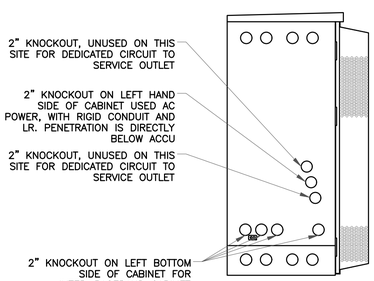




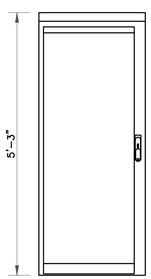
PLAN VIEW



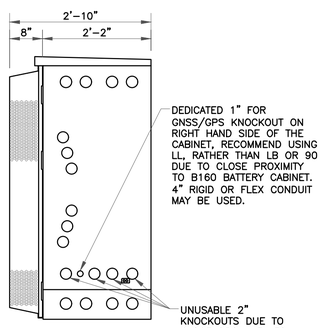
FRONT VIEW OPEN



LEFT VIEW



FRONT VIEW



RIGHT VIEW

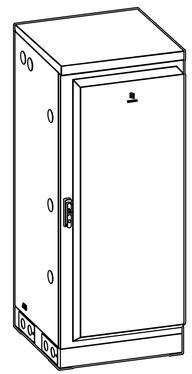
1 ERICSSON RBS 6160 CABINET
SCALE: NOT TO SCALE

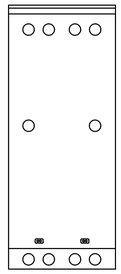
EQUIPMENT NOTES:

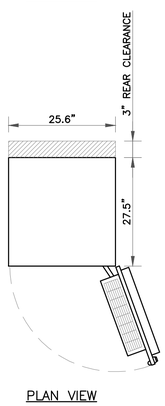
HEIGHTxWIDTHxDEPTH: 63.0" x 26.0" x 28.0" (1600.0mm x 660.0mm x 711.0mm)

WEIGHT (EMPTY): 295 LBS (134 kg)

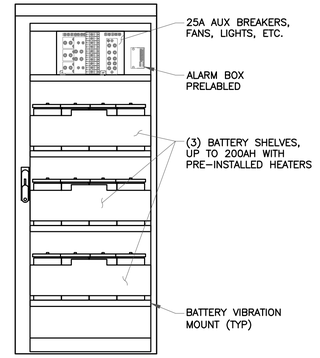
WEIGHT (FULLY LOADED W/ BATTERIES): 2000 LBS (908 kg)


ISO VIEW

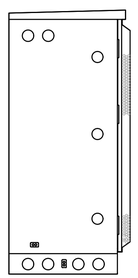

REAR VIEW

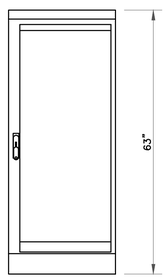


PLAN VIEW

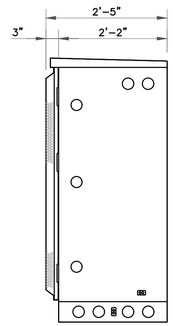


FRONT VIEW OPEN


LEFT VIEW



FRONT VIEW



RIGHT VIEW

2 B160 BATTERY CABINET
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

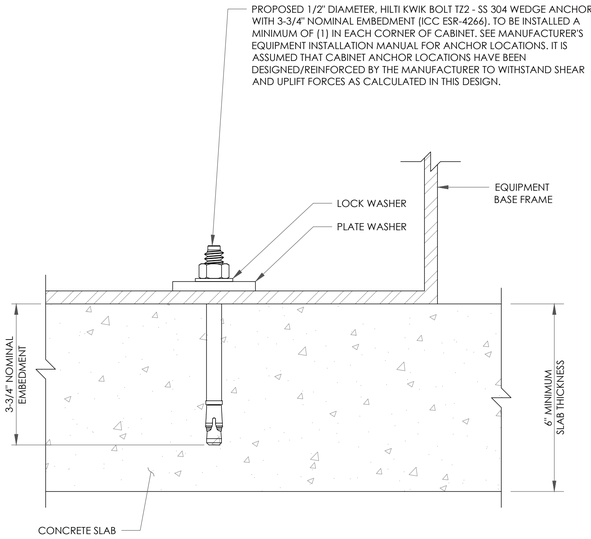
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARSH
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

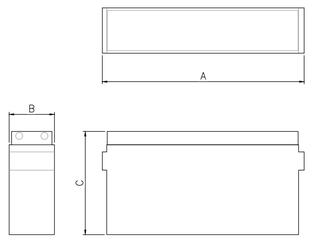
SHEET NUMBER: C-7

REVISION: 0



1 CABINET ANCHORAGE DETAIL
SCALE: NOT TO SCALE

NORTHSTAR NSB BATTERY SPECIFICATIONS											
BATTERY MODEL NUMBER	VOLTAGE	CAPACITY (AH)		NOMINAL DIMENSIONS						NOMINAL WEIGHT	
		8 HR CAPACITY TO 1.75 VPC @ 20/25°C (68/77°F)	10 HR CAPACITY TO 1.80 VPC @ 20/25°C (68/77°F)	INCHES			MILLIMETERS				
				A	B	C	A	B	C	LBS	Kg
NSB 210FT RED	12	200 / 204 AH	204 / 207 AH	22.0	4.96	12.9	558.8	125.98	327.66	141.6	64.22



ELECTRICAL DATA		
BATTERY MODEL NUMBER	SHORT CIRCUIT CURRENT	INTERNAL RESISTANCE (mOhms)
NSB 210FT RED	5400 A	2.8 mΩ @25°C (77°F)

FLOAT VOLTAGE

CONSTANT VOLTAGE CHARGING IS RECOMMENDED

RECOMMENDED FLOAT VOLTAGE @ 20/25°C (68/77°F), 2.28 /2.27 VPC

CHAPTER 12, SECTION 1206					
ELECTRICAL ENERGY STORAGE SYSTEM					
1206.2 SCOPE:					
STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY W/ SECTION 1206.2.1 THROUGH 1206.2.12.6, AS APPLICABLE.					
BATTERY STORAGE SYSTEM THRESHOLD QTY'S					
BATTERY TECHNOLOGY		CAPACITY ALLOWED			
LEAD ACID, ALL TYPES		70 kWh (252 MEGAJOULES)			
AH = VOLTAGE (AH)/1000					
VOLTS	AH		kWh	NO. OF BATTERIES	TOTAL kWh
12	210	1000	2.52	12	30.24
CONCLUSIONS:					
30.24	<	70 kWh	SECTION 1206.2 DOES NOT APPLY		
TOTAL BATTERY WEIGHT (12 BATTERIES):					1,699.2 LBS
TOTAL GALLONS - ELECTROLYTE & ACID (12 BATTERIES):					40.8

NSB 210FT RED BATTERY LEAD & ACID WEIGHTS (12-VOLT MODULE):			
ELECTROLYTE	WEIGHT	/KG	12.1
		/LBS	26.5
	VOLUME	/LITERS	9.0
		/GALLONS	2.4
ACID	WEIGHT	/KG	6.8
		/LBS	14.9
	VOLUME	/LITERS	3.7
		/GALLONS	1.0
LEAD	WEIGHT	/KG	19.8
		/LBS	43.6
LEAD OXIDE	VOLUME	/KG	25.7
		/LBS	56.6
TOTAL WEIGHT	WEIGHT	/KG	64.22
		/LBS	141.6

2 NORTHSTAR NSB 210FT RED BATTERY SPECS
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

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

PM&A
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T-MOBILE SITE NUMBER:
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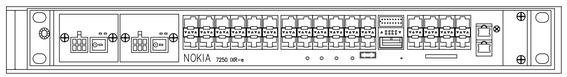
PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-8

REVISION: 0



NOKIA CSR IXRE V2 ROUTER
WEIGHT: 11.2 LBS.
SIZE (HxWxD): 1.75x17.25x10.0 IN.

1 NOKIA CSR IXRE V2 ROUTER
SCALE: NOT TO SCALE


Main unit supporting WCDMA


Main unit supporting GSM and LTE

The MU can also be installed in an outdoor site support cabinet, SSC-02 or an existing 19-inch rack. The RRU can be installed, indoor or outdoors on poles, walls, or in a tower. The RBS 6601 suits medium to large multi-standard capacity requirements. It supports multi-standard for both single- and dual-band configurations and supports the most common frequency bands.

Since the hardware is separated into small, lightweight units that can be carried to site, a main-remote solution is perfect for sites where any disturbance caused by installation work must be kept to a minimum or for locations where space or access is limited. Main-remote solutions are also ideal for specifically tailored coverage, because the highly flexible RRU can be spread over a very large area. The RBS 6601 suits a wide range of applications, e.g.: rooftop sites, metro and tunnel coverage, in-building solutions and highway coverage.

The minimal feeder loss reduces the need for tower mounted amplifiers, e.g.: TMA, WTMA, or ASC, which reduces capital expenditure.

Key Features
- Multi-standard: GSM, WCDMA and LTE support
- Up to twelve RRU can be connected to one MU
- Can be installed with zero footprint
- Multiple power output options, up to 60 W/RRU
- Available for different frequency bands
- Supports dual-band configurations
- 1 Tx and 2 Tx RRU models

TECHNICAL SPECIFICATIONS
RBS 6601

CONFIGURATIONS
Sectors: 1 to 6 sectors
Carriers/TRXs: 1 to 4 per sector

OUTPUT POWER CLASSES
1x 20, 40, 60 W par RRUS 01
2x 10, 20, 30 W par RRUS 11

CAPACITY PER MU
GSM 24 TRXs
WCDMA 12 cell carriers
LTE 3 x 20 MHz (MIMO) dualband

MECHANICAL DIMENSION
MU: 19 inch, 1.5 HU up to 10.5 kg
RRUS 01: 23 liters, 20 kg
RRUS 11: 25 liters, 20 kg

SITE POWER
MU: -48 V DC
RRUS 01/11: -48 V DC / 100-250 V AC

TRANSMISSION
E1/T1/J1
Channelized STM-1
100/1000 Base-T Ethernet

TEMPERATURE RANGE
MU: +5 °C to +50 °C
RRU: -40 °C to +55 °C

Telefonaktiebolaget LM Ericsson
SE-126 25 Stockholm, Sweden
Telephone +46 8 719 0000
Fax +46 8 18 40 85
www.ericsson.com

2 RBS 6601
SCALE: NOT TO SCALE

traditional frequencies (6-42 GHz), V-band 60 GHz, E-band 70/80 GHz, single and dual carrier, Coax and Ethernet interface.

Efficient network migration
MINI-LINK 6600 support any network migration from one generation of Radio technology to next on the Road to 5G. There is a topology flexibility in MINI-LINK 6600 to build hop based, tree, stars or ring based topologies to best support the network need.

For cost efficient migration MINI-LINK 6600 is hop compatible with MINI-LINK TN. Upgrading to MINI-LINK 6600, the radio units, antennas, and cabling can be reused.

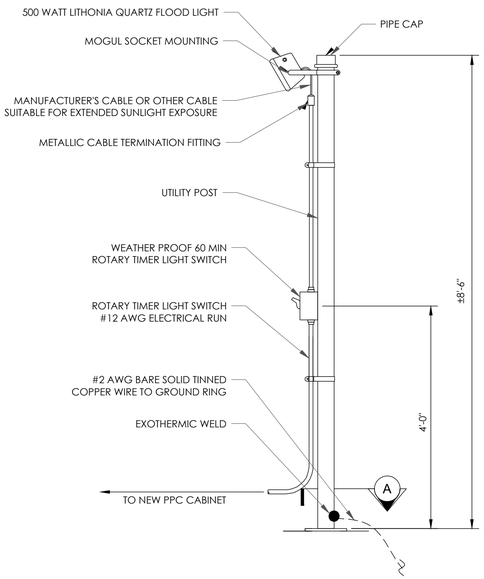
Technical specification
MINI-LINK 6600

RADIO LINK 5-80 GHZ*	Using MINI-LINK 6363 up to 4096QAM: -1.4 Gbps 1+0 in 112 MHz (ETSI) -2.5 Gbps using 2+0 RLB in 112 MHz (ETSI) -1 Gbps 1+0 in 80 MHz (ANSI) -2 Gbps using 2+0 RLB in 80 MHz (ANSI) Using MINI-LINK 6363 8OGHz up to 1024QAM -1.1 Gbps 1+0 in 125 MHz (ETSI) -2.2 Gbps 2+0 RLB in 125 MHz (ETSI)
RADIO LINK 60/70/80 GHZ*	1 Gbps over 200 MHz using MINI-LINK 6351 10 Gbps over 2000 MHz using MINI-LINK 6352
RADIO LINK	ATPC, Radio Link Bonding, XPIC, Adaptive Coding Modulation, Multi-layer Header Compression, Multi-band Booster, AES encryption over the hop, 4x4 MIMO
PROTECTION & CONFIGURATION	Up to 2+2 Hot standby and Space Diversity Up to 4+0 Radio Link Bonding (RLB) Up to 4+0 RLB using different CS combinations ERP, RSTP, SNCP Network protection MSP 1+1 Equipment protection
DIMENSIONS (H X W X D)	6651/3: 44x448x172 mm, 1.7x17.6x6.8 inch 6651: 44x448x239 mm, 1.7x17.6x9.4 inch 6654: 44x448x240 mm, 1.7x17.6x9.4 inch 6655: 66x448x238 mm, 2.6x17.6x9.4 inch 6691: 44x448x240 mm, 1.7x17.6x9.4 inch 6693: 66x448x238 mm, 2.6x17.2x9.4 inch 6694: 89x448x239 mm, 3.6x17.6x9.4 inch 6692: 133x448x240 mm, 5.2x17.6x9.4 inch
POWER SUPPLY	-48 V DC. Power redundancy
ENERGY EFFICIENCY	Traffic Aware Power Save
POWER CONSUMPTION (EXCLUDING RADIO)	6651/3: 30W 1+0 configuration 6651: 46W 1+0 configuration 6654: 49W 1+0 configuration 6655: 57W 1+0 configuration 6691: 57W 1+0 configuration 6693: 52W 1+0 configuration 6694: 79W 1+0 configuration 6692: 84W 1+0 configuration
OPERATIONAL TEMPERATURE	-25°C to +65°C / -13F to +140F -25°C to +60°C / -13F to +131F (6651/3)
TRAFFIC INTERFACES	E1, CES SAToP, 10/100/1000 BASE-T IEEE802.3, Optical 1000BASE-SX/LX/ZX/BX, GE CWDM 10G BASE-LR/ER/ZR, 10GE DWDM
SYNCHRONIZATION	Sync E, 1588v2 (Telecom profile G.8275.1), NTP transparent, E1 and 2MHz, Frequency (G.8265.1)
SWITCHING/ROUTING	IEEE 802.1Q-2011 Customer & Provider Bridge, Bridge Virtual Interface, LAG/LACP, ERP, H-QoS, BNM, MAC Swap loopback, VRF, OSPF, eBGP, IS-IS, RSVP-TE FRR, RSVP-TE Path Protection, IP/MPLS L3 VPN, LDP, BFD, BGP FRR, MP-BGP, IPv4 ACL
OAM	Link OAM, Service OAM FM/PM, Y.1731, TWAMP reflector Light
DCN	DCN over VLAN, Routed DCN (OSPF) DCN over VLAN for L1 connection
NETWORK MANAGEMENT	Supported by ENM, IP transport NMS, ServiceON, Node GUI and CLI SNMP v3, SSH, RADIUS, TACACS+
STANDARDS & RECOMMENDATIONS	CEN/CENELEC, ETSI, ITU, IEC, IEEE, IETF

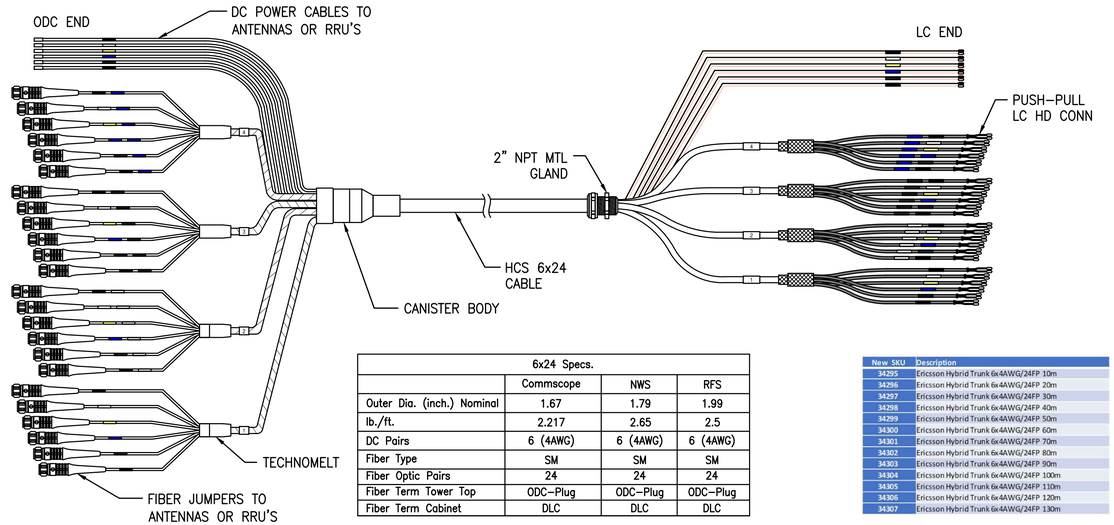
* For antennas and frequency bands, please see MINI-LINK outdoor datasheets

Ericsson AB
SE-417 56 Göteborg, Sweden
Telephone +46 10 719 00 00
www.ericsson.com

3 ERICSSON RP 6651
SCALE: NOT TO SCALE



4 TECH LIGHT W/ TIMER SWITCH
SCALE: NOT TO SCALE



6x24 Specs.			
	Commscope	NWS	RFS
Outer Dia. (inch.) Nominal	1.67	1.79	1.99
lb./ft.	2.217	2.65	2.5
DC Pairs	6 (4AWG)	6 (4AWG)	6 (4AWG)
Fiber Type	SM	SM	SM
Fiber Optic Pairs	24	24	24
Fiber Term Tower Top	ODC–Plug	ODC–Plug	ODC–Plug
Fiber Term Cabinet	DLC	DLC	DLC

New SKU	Description
34295	Ericsson Hybrid Trunk 6x4AWG/24FP 10m
34296	Ericsson Hybrid Trunk 6x4AWG/24FP 20m
34297	Ericsson Hybrid Trunk 6x4AWG/24FP 30m
34298	Ericsson Hybrid Trunk 6x4AWG/24FP 40m
34299	Ericsson Hybrid Trunk 6x4AWG/24FP 50m
34300	Ericsson Hybrid Trunk 6x4AWG/24FP 60m
34301	Ericsson Hybrid Trunk 6x4AWG/24FP 70m
34302	Ericsson Hybrid Trunk 6x4AWG/24FP 80m
34303	Ericsson Hybrid Trunk 6x4AWG/24FP 90m
34304	Ericsson Hybrid Trunk 6x4AWG/24FP 100m
34305	Ericsson Hybrid Trunk 6x4AWG/24FP 110m
34306	Ericsson Hybrid Trunk 6x4AWG/24FP 120m
34307	Ericsson Hybrid Trunk 6x4AWG/24FP 130m

HCS 6X24 4AWG CABLE SPECS

5 HCS CABLE SPECS
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARSA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-9

REVISION: 0

CONTINUOUS HINGE WITH CLAMPS, TYPE 12

INDUSTRY STANDARDS

UL 508A Listed; Type 12, 13; File No. E61997
cUL Listed per CSA C22.2 No. 94; Type 12, 13; File No. E61997

NEMA/EEMAC Type 12 and 13
CSA, File No. 42186: Type 12
IEC 60529, IP65

APPLICATION

For applications requiring a bright white interior to increase control visibility, this enclosure includes a padlocking hasp and staple for security and screw-down clamps for secure closure.

SPECIFICATIONS

- 16 or 14 gauge steel
- Seams continuously welded and ground smooth
- External welded-on mounting brackets for easy installation
- Formed external return flanges around all sides of enclosure opening
- Screw-down door clamps
- Removable heavy-gauge continuous hinge pin
- Hasp and staple for padlocking
- Data pocket is high-impact thermoplastic
- Collar studs for mounting optional panels
- Bonding provision on door
- Removable door with continuous hinge
- Seamless foam-in-place gasket

FINISH

Body: White inside with ANSI 61 gray finish outside.
Door: ANSI 61 gray inside and outside.

ACCESSORIES

Panels for 3R, 4, 4X, 12, and 13 Enclosures
Drip Shield Kit for Type 12 Enclosures
Electric Heater
Fast-Operating Clamp Assembly
Compact Cooling Fans
Steel and Stainless Steel Window Kits
HF Side-Mount Filter Fans

MODIFICATION AND CUSTOMIZATION

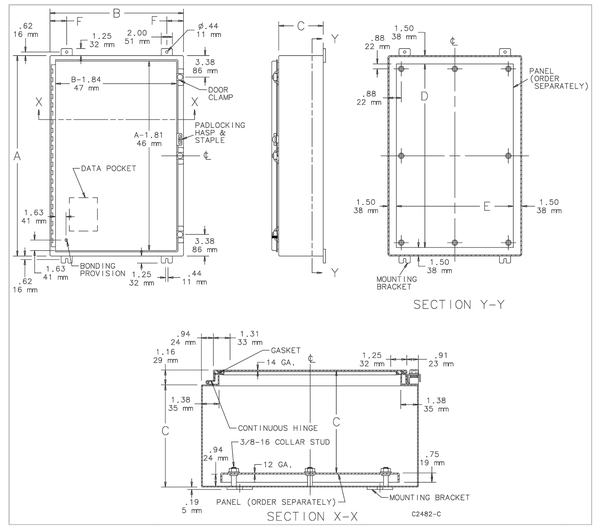
Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

BULLETIN: A12

Standard Product

Catalog Number	AxBxC in./mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	F in./mm	Number of Clamps	Data Pocket
A12T24DHLP	12.00 x 24.00 x 8.00 305 x 610 x 152	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	3.00 76	2	Small
A16T12DHLP	16.00 x 12.00 x 8.00 406 x 305 x 152	16	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A16T16DHLP	16.00 x 16.00 x 8.00 406 x 406 x 152	16	A16P16	A16P16G	13.00 x 13.00 330 x 330	3.00 76	2	Small
A16T20DHLP	16.00 x 20.00 x 6.00 406 x 508 x 152	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A20T12DHLP	20.00 x 12.00 x 6.00 508 x 305 x 152	16	A20P12	A20P12G	17.00 x 9.00 432 x 229	1.25 32	2	Small
A20T16DHLP	20.00 x 16.00 x 6.00 508 x 406 x 152	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A20T20DHLP	20.00 x 20.00 x 6.00 508 x 508 x 152	16	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A20T24DHLP	20.00 x 24.00 x 6.00 508 x 610 x 152	16	A24P20	A24P20G	17.00 x 21.00 533 x 432	3.00 76	2	Small
A24T12DHLP	24.00 x 12.00 x 6.00 610 x 305 x 152	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	1.25 32	2	Small
A24T16DHLP	24.00 x 16.00 x 6.00 610 x 406 x 152	16	A24P16	A24P16G	13.00 x 13.00 330 x 330	3.00 76	2	Small
A24T20DHLP	24.00 x 20.00 x 6.00 610 x 508 x 152	16	A24P20	A24P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A24T24DHLP	24.00 x 24.00 x 6.00 610 x 610 x 152	16	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A30T16DHLP	30.00 x 16.00 x 6.00 762 x 406 x 152	14	A30P16	A30P16G	27.00 x 13.00 686 x 330	3.00 76	2	Small
A30T20DHLP	30.00 x 20.00 x 6.00 762 x 508 x 152	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A30T24DHLP	30.00 x 24.00 x 6.00 762 x 610 x 152	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A36T24DHLP	36.00 x 24.00 x 6.00 914 x 610 x 152	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A36T30DHLP	36.00 x 30.00 x 6.00 914 x 762 x 152	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large

Catalog Number	AxBxC in./mm	Body Gauge	Panel	Conductive Panel	Panel Size D x E in./mm	F in./mm	Number of Clamps	Data Pocket
A12T24DHLP	12.00 x 24.00 x 8.00 305 x 610 x 203	16	A12P24	A12P24G	9.00 x 21.00 229 x 533	3.00 76	2	Small
A16T20DHLP	16.00 x 12.00 x 8.00 406 x 305 x 203	16	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A16T16DHLP	16.00 x 16.00 x 8.00 406 x 406 x 203	16	A16P16	A16P16G	13.00 x 13.00 330 x 330	3.00 76	2	Small
A16T20DHLP	16.00 x 20.00 x 8.00 406 x 508 x 203	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A20T20DHLP	20.00 x 12.00 x 8.00 508 x 305 x 203	16	A20P12	A20P12G	17.00 x 9.00 432 x 229	1.25 32	2	Small
A20T16DHLP	20.00 x 16.00 x 8.00 508 x 406 x 203	16	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A20T20DHLP	20.00 x 20.00 x 8.00 508 x 508 x 203	16	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A24T20DHLP	24.00 x 20.00 x 8.00 610 x 508 x 203	16	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A24T24DHLP	24.00 x 24.00 x 8.00 610 x 610 x 203	16	A24P24	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A24T30DHLP	24.00 x 30.00 x 8.00 610 x 762 x 203	14	A30P24G	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Small
A30T20DHLP	30.00 x 20.00 x 8.00 762 x 508 x 203	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A30T24DHLP	30.00 x 24.00 x 8.00 762 x 610 x 203	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A30T30DHLP	30.00 x 30.00 x 8.00 762 x 762 x 203	14	A30P30	A30P30G	27.00 x 27.00 686 x 686	3.00 76	2	Large
A30T36DHLP	30.00 x 36.00 x 8.00 762 x 914 x 203	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A36T24DHLP	36.00 x 24.00 x 8.00 914 x 610 x 203	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A36T30DHLP	36.00 x 30.00 x 8.00 914 x 762 x 203	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A36T36DHLP	36.00 x 36.00 x 8.00 914 x 914 x 203	14	A36P36	A36P36G	33.00 x 33.00 838 x 838	3.00 76	2	Large
A42T24DHLP	42.00 x 24.00 x 8.00 1067 x 610 x 203	14	A42P24	A42P24G	39.00 x 21.00 991 x 533	3.00 76	2	Large
A42T30DHLP	42.00 x 30.00 x 8.00 1067 x 762 x 203	14	A42P30	A42P30G	39.00 x 27.00 991 x 686	3.00 76	2	Small
A42T36DHLP	42.00 x 36.00 x 8.00 1067 x 914 x 203	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large
A48T24DHLP	48.00 x 24.00 x 8.00 1219 x 610 x 203	14	A48P24	A48P24G	45.00 x 21.00 1143 x 533	3.00 76	3	Large
A48T30DHLP	48.00 x 30.00 x 8.00 1219 x 762 x 203	14	A48P30	A48P30G	45.00 x 27.00 1143 x 686	3.00 76	3	Small
A48T36DHLP	48.00 x 36.00 x 8.00 1219 x 914 x 203	14	A48P36	A48P36G	45.00 x 33.00 1143 x 838	3.00 76	3	Large
A60T36DHLP	60.00 x 36.00 x 8.00 1524 x 914 x 203	14	A60P36	A60P36G	57.00 x 33.00 1448 x 838	3.00 76	3	Large
A16T12DHLP	16.00 x 12.00 x 10.00 406 x 305 x 254	14	A16P12	A16P12G	13.00 x 9.00 330 x 229	1.25 32	2	Small
A20T16DHLP	20.00 x 16.00 x 10.00 508 x 406 x 254	14	A20P16	A20P16G	17.00 x 13.00 432 x 330	3.00 76	2	Small
A20T20DHLP	20.00 x 20.00 x 10.00 508 x 508 x 254	14	A20P20	A20P20G	17.00 x 17.00 432 x 432	3.00 76	2	Small
A24T12DHLP	24.00 x 12.00 x 10.00 610 x 305 x 254	14	A12P24	A12P24G	9.00 x 21.00 229 x 533	1.25 32	2	Small
A24T20DHLP	24.00 x 20.00 x 10.00 610 x 508 x 254	14	A24P20	A24P20G	21.00 x 17.00 533 x 432	3.00 76	2	Small
A24T24DHLP	24.00 x 24.00 x 10.00 610 x 610 x 254	14	A24P24G	A24P24G	21.00 x 21.00 533 x 533	3.00 76	2	Small
A30T20DHLP	30.00 x 20.00 x 10.00 762 x 508 x 254	14	A30P20	A30P20G	27.00 x 17.00 686 x 432	3.00 76	2	Small
A30T24DHLP	30.00 x 24.00 x 10.00 762 x 610 x 254	14	A30P24	A30P24G	27.00 x 21.00 686 x 533	3.00 76	2	Large
A36T24DHLP	36.00 x 24.00 x 10.00 914 x 610 x 254	14	A36P24	A36P24G	33.00 x 21.00 838 x 533	3.00 76	2	Large
A36T30DHLP	36.00 x 30.00 x 10.00 914 x 762 x 254	14	A36P30	A36P30G	33.00 x 27.00 838 x 686	3.00 76	2	Large
A42T30DHLP	42.00 x 30.00 x 10.00 1067 x 762 x 254	14	A42P30	A42P30G	39.00 x 27.00 991 x 686	3.00 76	2	Small
A42T36DHLP	42.00 x 36.00 x 10.00 1067 x 914 x 254	14	A42P36	A42P36G	39.00 x 33.00 991 x 838	3.00 76	2	Large



1 HOFFMAN WINDER/SLACK CAN SPECS
SCALE: NOT TO SCALE

T-Mobile

1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

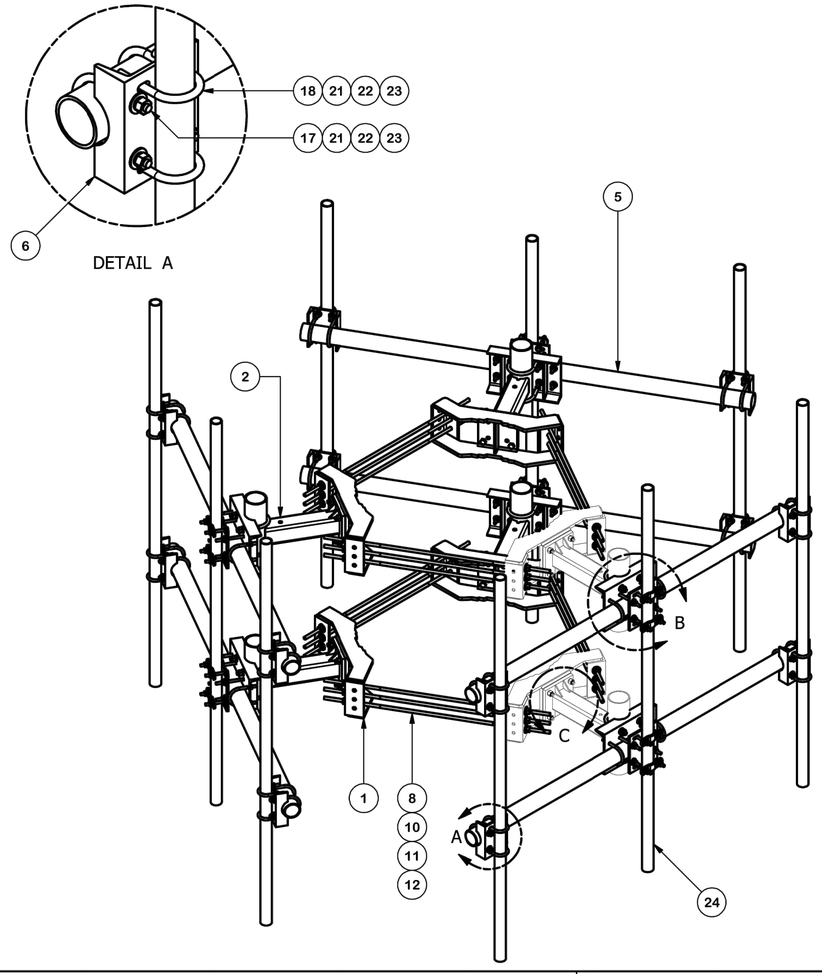
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
STATE OF CALIFORNIA
CIVIL
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

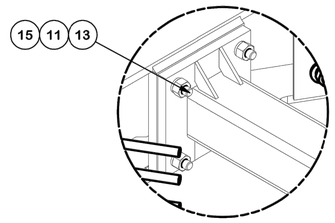
SHEET NUMBER: C-10

REVISION: 0



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-LWRM	RING MOUNT WELDMENT		68.81	412.85
2	6	X-SV197-18	SUPPORT ARM WELDMENT - 18"		45.69	274.15
3	6	X-SP216	LARGE SUPPORT CROSS PLATE		22.08	132.46
4	6	SCX3	CROSSOVER PLATE	9.250 in	7.19	43.13
5	6	P396	3-1/2" X 96" (3" SCH 40) GALVANZIED PIPE	96.000 in	60.75	364.49
6	12	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
7	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.92	11.06
8	18	G58R-48	5/8" X 48" GALV THREADED ROD		4.39	79.03
8	18	G58R-24	5/8" x 24" THREADED ROD (HDG.)		2.09	37.63
9	12	X-UB5458	5/8" X 4-5/8" X 7" X 3" U-BOLT (HDG.)		1.54	18.42
10	36	G58FW	5/8" HDG USS FLATWASHER	.122	0.07	2.54
11	84	G58LW	5/8" HDG LOCKWASHER		0.03	2.19
12	36	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	4.68
13	24	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	8.54
14	24	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.82
15	48	A58NUT	5/8" HDG A325 HEX NUT		0.13	6.23
16	12	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.77	9.27
17	24	X-UB1306	1/2" X 3-5/8" X 6" X 3" U-BOLT (HDG.)		0.83	19.88
18	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	15.00
19	24	G12R-8	1/2" x 8" THREADED ROD (HDG.)		0.45	10.71
20	24	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4.5	0.30	7.15
21	216	G12FW	1/2" HDG USS FLATWASHER	0.095	0.03	7.36
22	192	G12LW	1/2" HDG LOCKWASHER	.125	0.01	2.67
23	192	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	13.75
24	9	A	B	C	D	E

DETAIL B



DETAIL C

TABLE					
"ASSEMBLY NO."	PART NO. "A"	PART DESCRIPTION "B"	LENGTH "C"	UNIT WT. "D"	TOTAL WT.
RMVD8-296-18	P296	2-3/8" O.D. SCH. 40 PIPE	96"	29.22	1,880.76
RMVD8-2120-18	P2120	2-2/8" O.D. SCH. 40 PIPE	120"	36.53	1,936.65

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
8' DOUBLE MONOPOLE TRIPLE T-ARM
W/ 2-3/8" ANTENNA PIPES & 18" STANDOFF

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CMFL 11/23/2021	11/13/2020	RMVD8-2XX-18	1 OF 2
CLASS 87 / SUB 02	DRAWING USAGE: CUSTOMER	CHECKED BY: BMC 11/13/2020	DWG. NO. RMVD8-2XX-18	

1 SITE PRO 1 - RMVD8-296-18
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

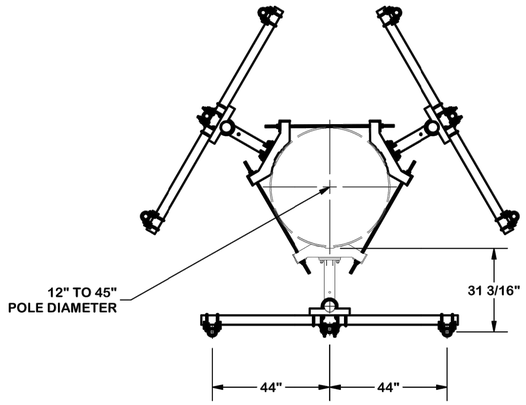
ISSUED FOR:

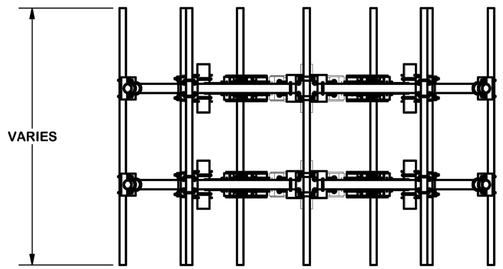
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER:	REVISION:
C11	0





TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
8' DOUBLE MONOPOLE TRIPLE T-ARM
W/ 2-3/8" ANTENNA PIPES & 18" STANDOFF

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CMFL 11/23/2021	11/13/2020	RMVD8-2XX-18

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
87	02	CUSTOMER	BMC 11/13/2020	RMVD8-2XX-18

PAGE 2 OF 2

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

1 SITE PRO 1 - RMVD8-296-18
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: C-11.1

REVISION: 0

T-MOBILE SITE #:			LOCATION:	VOLTAGE: 240/120 1Ø						MOUNTING / ENCLOSURE: EXISTING / NEMA 3R			
SF40959A (PROPOSED)			H-FRAME MOUNTED PPC CABINET	MAIN C/B: 200 AMPS						AVAIL. FAULT CURRENT: EXISTING			
12/14/2023				BUS RATING: 200 AMPS						SHORT CIRCUIT RATING: 65,000			
AMPS/ POLES	WIRE & CONDUIT	TYPE	DESCRIPTION	KVA	CKT	A	B	CKT	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS/ POLES
30/2	EXISTING	EQ	TVSS	0.10	1	8.74		2	**8.64**	**RBS 6160 CABINET**	**EQ**	**(2) #1, (1) #6 GND, 2" C**	**125/2**
-	-	EQ	-	0.10	3		8.74	4	**8.64**	-	**EQ**	**-**	-
15/1	EXISTING	R	GFI	0.18	5	0.36		6	0.18	SITE GFI	R	EXISTING	15/1
20/1	EXISTING	H	BLOCK HEATER	1.00	7		1.50	8	0.50	SITE LIGHT	L	EXISTING	15/1
20/1	EXISTING	EQ	BATTERY CHARGER	1.00	9	1.50		10	**0.50**	**TECH LIGHT**	**L**	**(2) #12, (1) #12 GND, 1/2"C**	**20/1**
			SPACE		11		0.18	12	**0.18**	**RBS 6160 GFCI**	**R**	**(2) #12, (1) #12 GND, 1/2"C**	**20/1**
			SPACE		13			14		SPACE			
			SPACE		15			16		SPACE			
			SPACE		17			18		SPACE			
			SPACE		19			20		SPACE			
			SPACE		21			22		SPACE			
			SPACE		23			24		SPACE			
				PHASE TOTAL	10.6		10.4	KVA					

PROPOSED RBS 6160 CABINET

PROPOSED LED TECH LIGHT

TOTAL CONNECTED LOAD	21.0 KVA	88 A
TOTAL DEMAND LOAD	21.3 KVA	89 A

LOAD TYPE	DESCRIPTION	CONN. LOAD KVA	CONN. LOAD AMPS	DEMAND FACTOR	DESIGN LOAD KVA	DESIGN LOAD AMPS
L	LIGHTING	1.0	4.2	1.25	1.3	5.2
R	RECEPTACLE	0.5	2.3	NEC	0.5	2.3
M	MOTOR	0.0	0.0	NEC	0.0	0.0
H	HEATING	1.0	4.2	1.00	1.0	4.2
AC	HVAC	0.0	0.0	1.00	0.0	0.0
EQ	EQUIPMENT	18.5	77.0	1.00	18.5	77.0
E	EXISTING	0.0	0.0	1.25	0.0	0.0

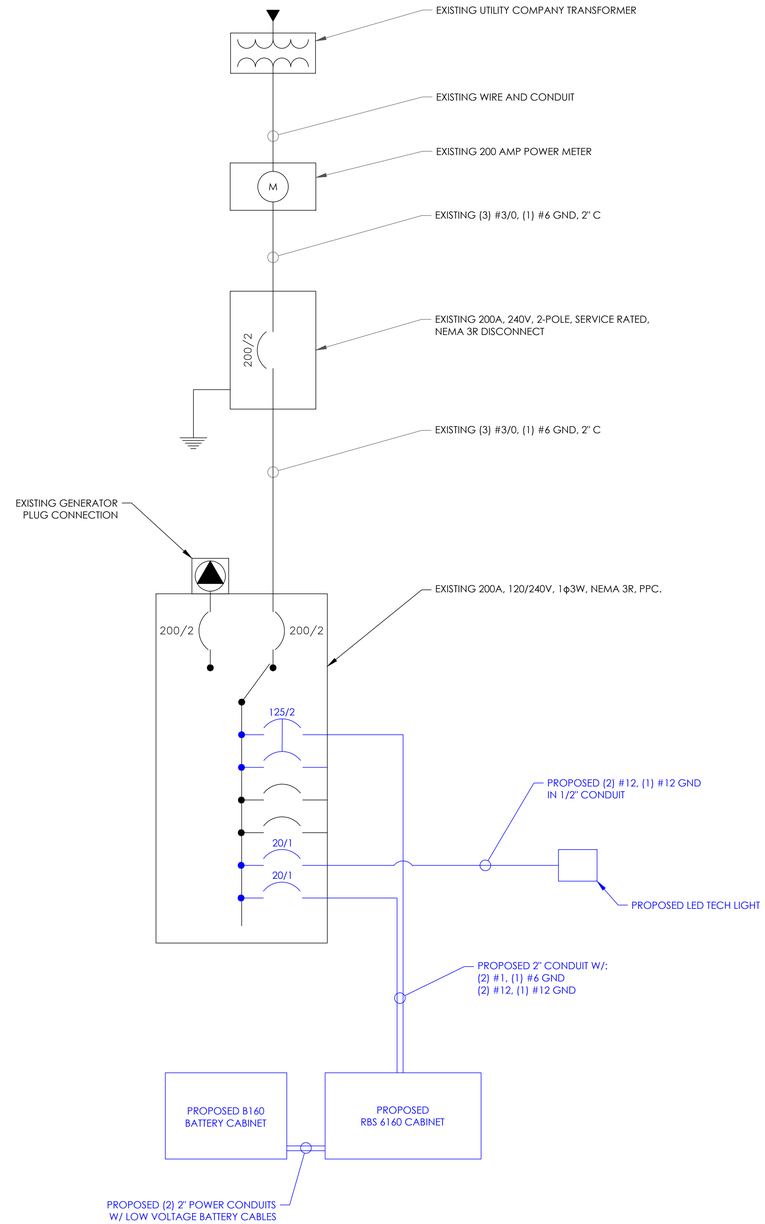
* ALL EQUIPMENT LOADS CONSIDERED CONTINUOUS LOADS

NOTES:
REMOVE (1) 100/2 RBS 6102 BREAKER.

1 FINAL PANEL SCHEDULE
SCALE: NOT TO SCALE

ELECTRICAL NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE CEC.
4. POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGE IS TO BE PERFORMED BY OTHERS AND IS SHOWN FOR REFERENCE PURPOSES ONLY. T-MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.



2 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBA
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

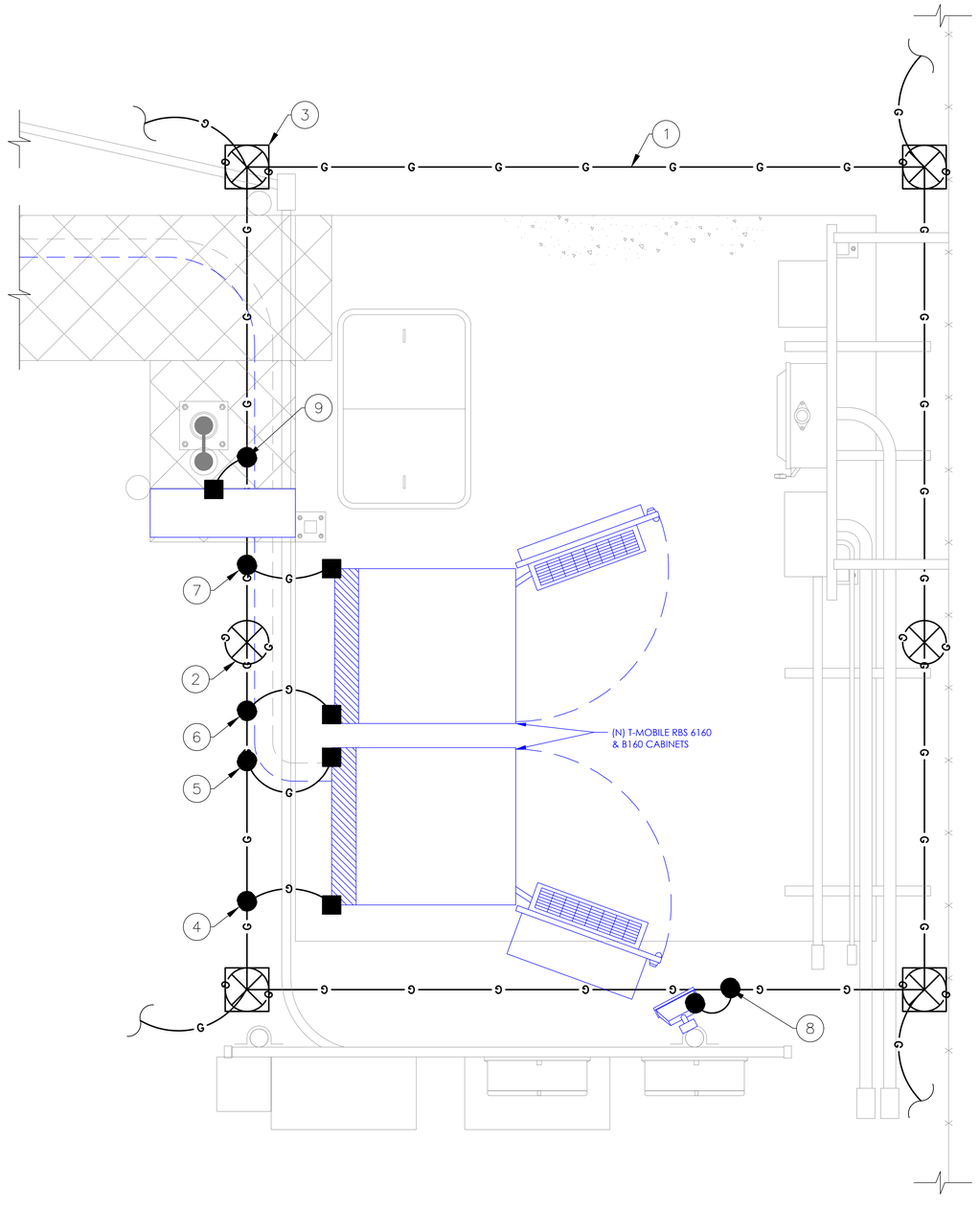
PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: E-1

REVISION: 0

GROUNDING KEY NOTES:

1. EXISTING #2 BARE TINNED SOLID COPPER GROUND RING.
2. EXISTING 5/8" DIA. x 8' LONG STEEL SHAFT COPPER CLAD GROUND ROD (TYP.).
3. EXISTING GROUND ROD WITH COVERED PVC TEST WELL (TYP.).
4. GROUND PROPOSED RBS 6160 CABINET, MAIN GROUND BAR WITH 2-HOLE LUG CONNECTION.
5. GROUND PROPOSED RBS 6160 OUTER CABINET TO GROUND RING.
6. GROUND PROPOSED B160 BATTERY CABINET, MAIN GROUND BAR W/ 2-HOLE LUG CONNECTION.
7. GROUND PROPOSED B160 BATTERY OUTER CABINET TO GROUND RING.
8. GROUND PROPOSED LED TECH LIGHT TO GROUND RING.
9. GROUND PROPOSED HCS WINDER/SLACK CAN, HOFFMAN TO GROUND RING.



1 EQUIPMENT GROUNDING PLAN

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

N

GROUNDING LEGEND

- INSPECTION WELL VERIFY LOCATION W/ CONSTR. MGR.
- 5/8"x10'-0" COPPER CLAD GROUND ROD, 10' O.C. (TYP)
- #6 AWG STRANDED & INSULATED
- #2 AWG SOLID COPPER TINNED
- GROUND BUS BAR
- EXOTHERMIC WELD (CADWELD) (UNLESS OTHERWISE NOTED)
- MECHANICAL CONNECTION

T-Mobile

1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

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

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

T-MOBILE SITE NUMBER:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

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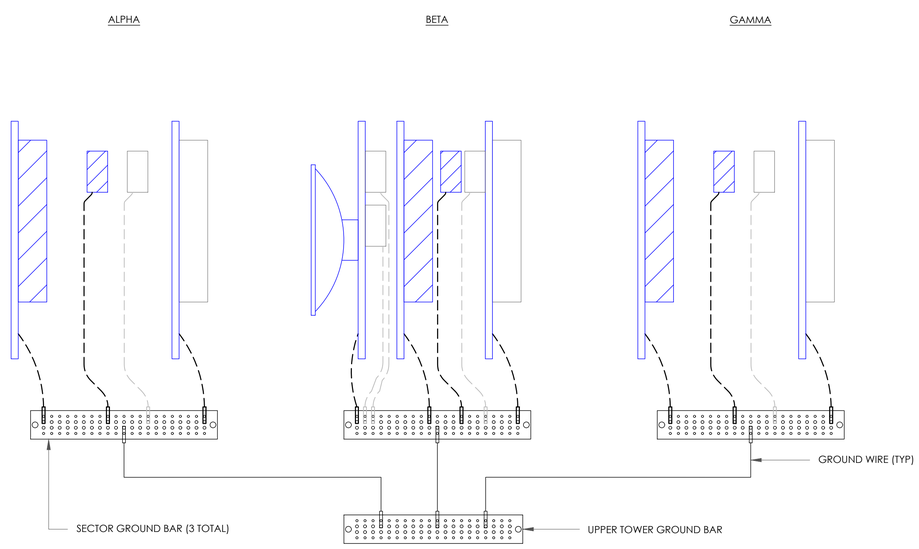
REGISTERED PROFESSIONAL ENGINEER
ANDREI BARSH
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: G-1

REVISION: 0



GROUNDING NOTE:

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

1 ANTENNA GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

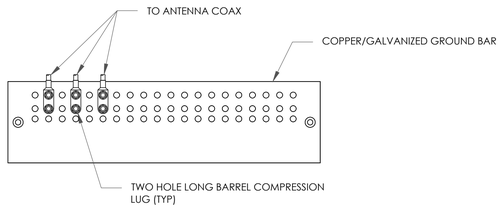
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDRET BARBY
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: G-2

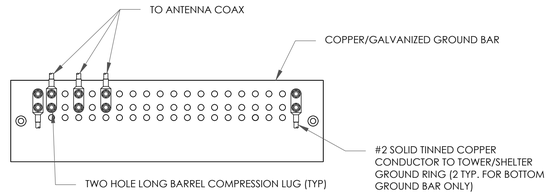
REVISION: 0



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 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

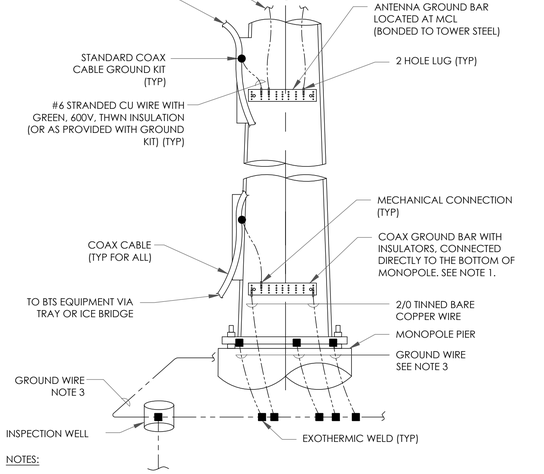


NOTES:

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/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

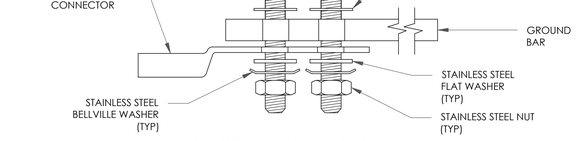
3 NOT USED
SCALE: NOT TO SCALE



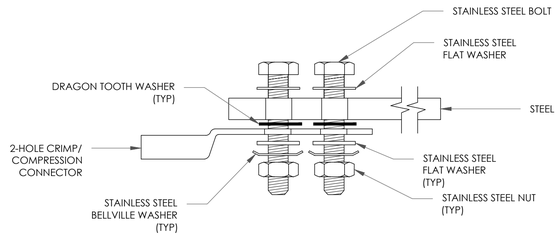
NOTES:

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 ANSI/TIA 222 AND NFPA 780.

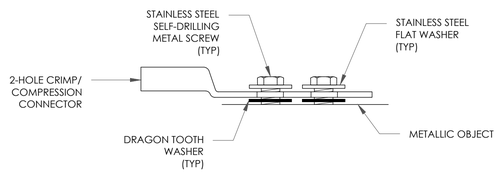
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



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
1200 CONCORD AVE., 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:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/20/23	AW	PRELIMINARY	HS
0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBU
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

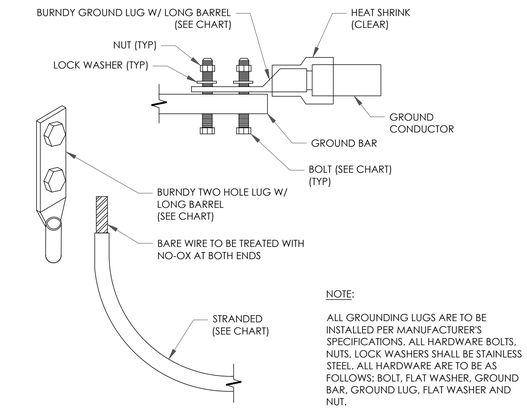
SHEET NUMBER: G-3

REVISION: 0

1 NOT USED
SCALE: NOT TO SCALE

2 NOT USED
SCALE: NOT TO SCALE

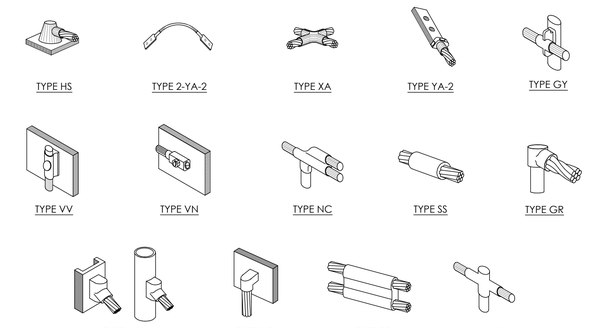
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



NOTE:

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.

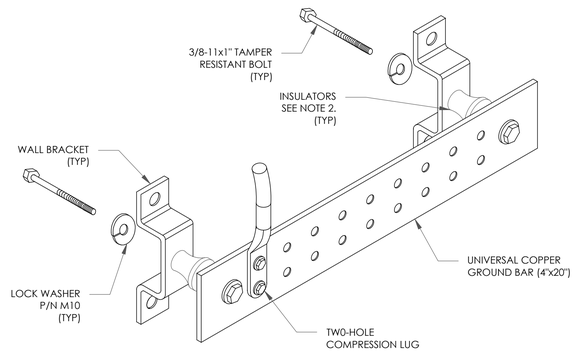
3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

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.

4 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



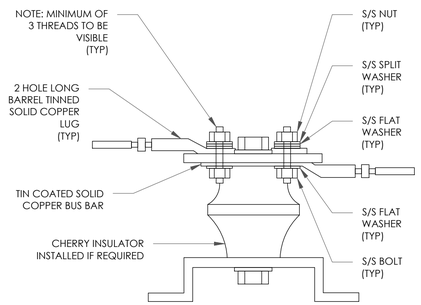
NOTES:

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.

5 GROUND BAR DETAIL
SCALE: NOT TO SCALE

6 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

8 NOT USED
SCALE: NOT TO SCALE

T-Mobile
1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

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1 PARK PLACE, SUITE 300
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6801 PORTWEST DR. STE 100,
HOUSTON, TX 77024
OFFICE 713-677-0964

T-MOBILE SITE NUMBER:
SF40959A

BU #: 857683

CROWN: AT&T NEW POTTER VALLEY

12531 EEL RIVER ROAD
POTTER VALLEY, CA 95469

EXISTING 65'-0" MONOPOLE

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0	01/31/24	SM	FINAL CD	HS

REGISTERED PROFESSIONAL ENGINEER
ANDREI BARBU
C87623
CIVIL
STATE OF CALIFORNIA
02/01/2024

PROJECT NUMBER:
23CCTCAM-127

SHEET NUMBER: G-4

REVISION: 0

8020 Katy Fwy
Houston, TX 77024

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

Project Data Sheet	
Business Unit (BU)	857683
Application/Order Number	657872
Crown Castle Site Name	CA371 - POTTER VALLEY
Customer Site Number	SF40959A
Site Address	12531 EEL RIVER ROAD
Site City, State, Zip	POTTER VALLEY, CA 95469
Parcel Tax ID	175-010-10-00
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, ancillary equipment and ground equipment as per plans for an existing carrier on an existing wireless communication facility.
Property Owner	GLOBAL SIGNAL ACQUISITIONS IV LLC
Property Owner Address	PO BOX 277455, ATLANTA, GA 30384-7455
Structure Type	MONOPOLE
Structure Height	65 FT
Antenna Equipment Height	54
Size of Compound Sq. Ft.	2,304 sq ft
Latitude	39° 19’ 52.9”
Longitude	-123° 5’ 53.2”
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

CROWN CASTLE

8020 Katy Fwy
Houston, TX 77024

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

February 12, 2024

COUNTY OF MENDOCINO, CA
Mendocino County Building Services
860 NORTH BUSH STREET
UKIAH, CA 95482

Via Mail

************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: 12531 EEL RIVER ROAD, POTTER VALLEY, CA 95469
Crown Site Number: 857683 / Crown Site Name: CA371 - POTTER VALLEY
Customer Site Number: SF40959A / Application Number: 657872

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 6409[1] 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 law[4].

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.

CROWN CASTLE

8020 Katy Fwy
Houston, TX 77024

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

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 13, 2024, and the deadline for issuance of approval is April 12, 2024.

CROWN CASTLE

8020 Katy Fwy
Houston, TX 77024

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

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

8020 Katy Fwy
Houston, TX 77024

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

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

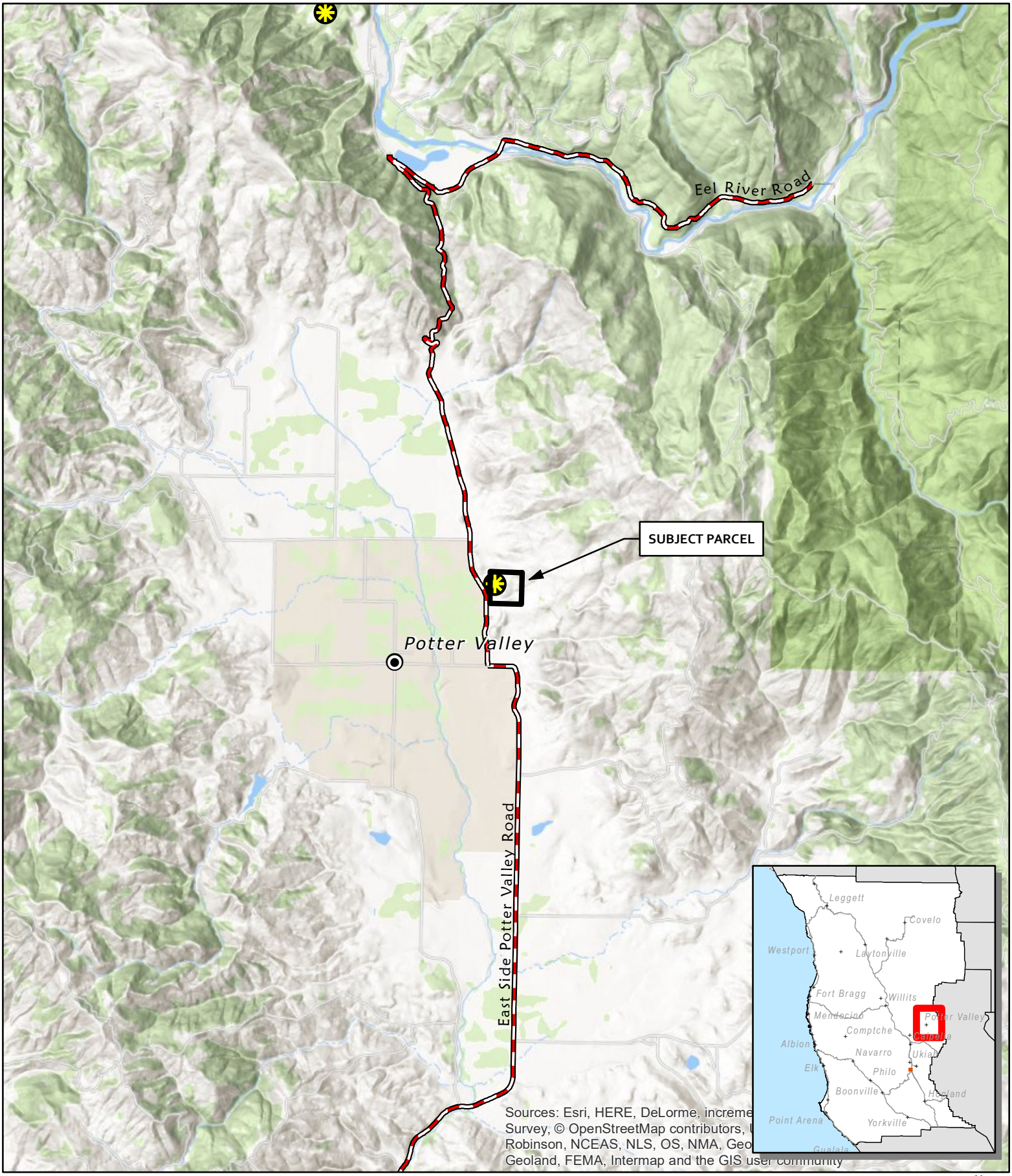
YES/NO **NO**	Does the modification increase the height of the tower by more than the greater of: (a) 10% (b) or, the height of an additional antenna array plus separation of up to 20 feet from the top of the nearest existing antenna?
YES/NO **NO**	Does the modification add an appurtenance to the body 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.



Sources: Esri, HERE, DeLorme, increme
Survey, © OpenStreetMap contributors,
Robinson, NCEAS, NLS, OS, NMA, Geo
Geoland, FEMA, Intermap and the GIS user community

CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

Major Towns & Places
Major Roads
Approved Wireless Sites

0 2,800 5,600 Feet
0 0.5 1 Miles

N
W E
S

1:63,360

LOCATION

CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

Major Towns & Places
Major Roads
Public Roads
Private Roads
Driveways/Unnamed Roads
Approved Wireless Sites

0 875 1,750 Feet
0 0.15 0.3 Miles

N W E S

1:20,000

AERIAL IMAGERY

CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

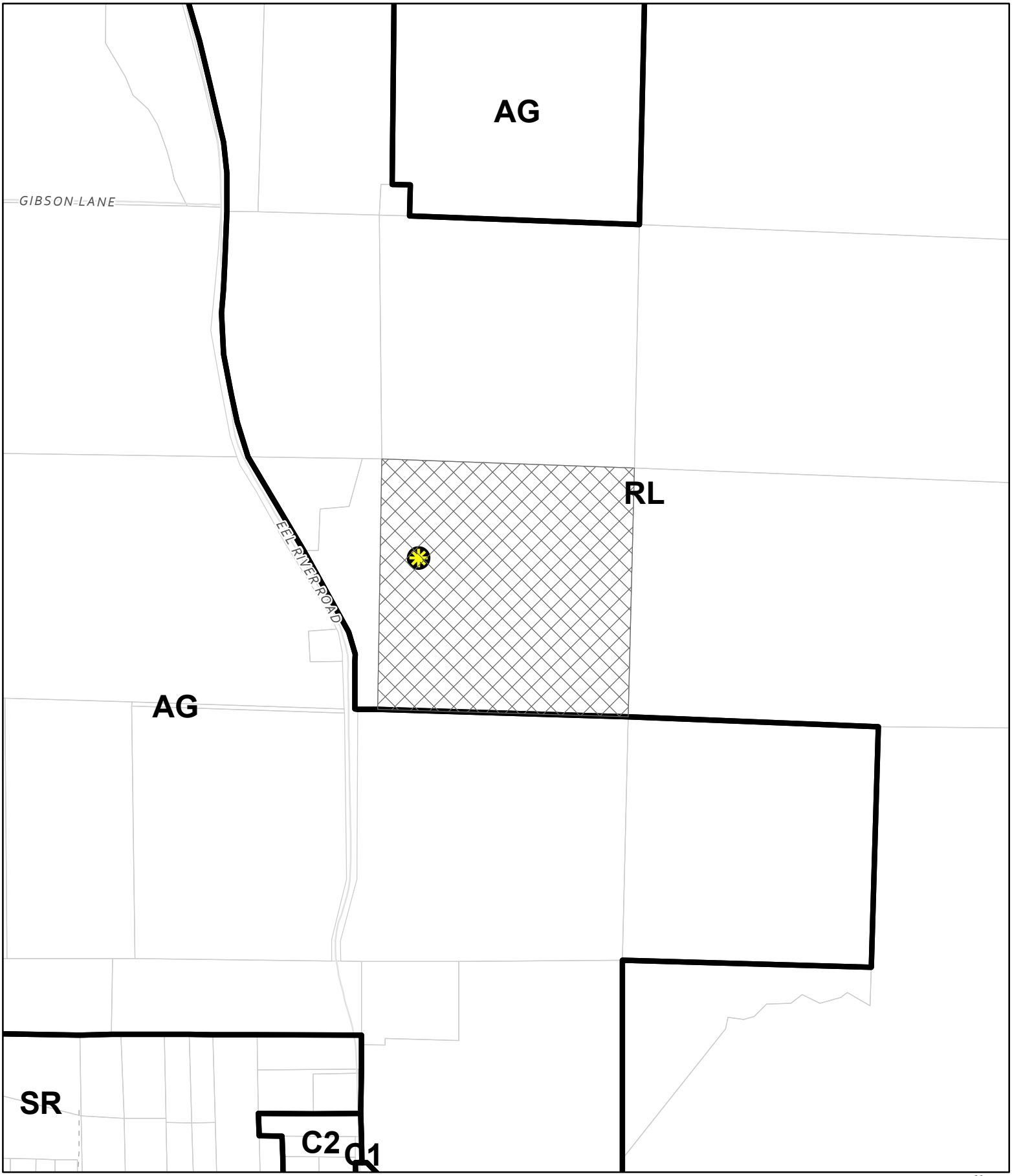
Approved Wireless Sites

0 100 200 Feet
0 0.0175 0.035 Miles

N W E S

1:2,248.89

AERIAL IMAGERY



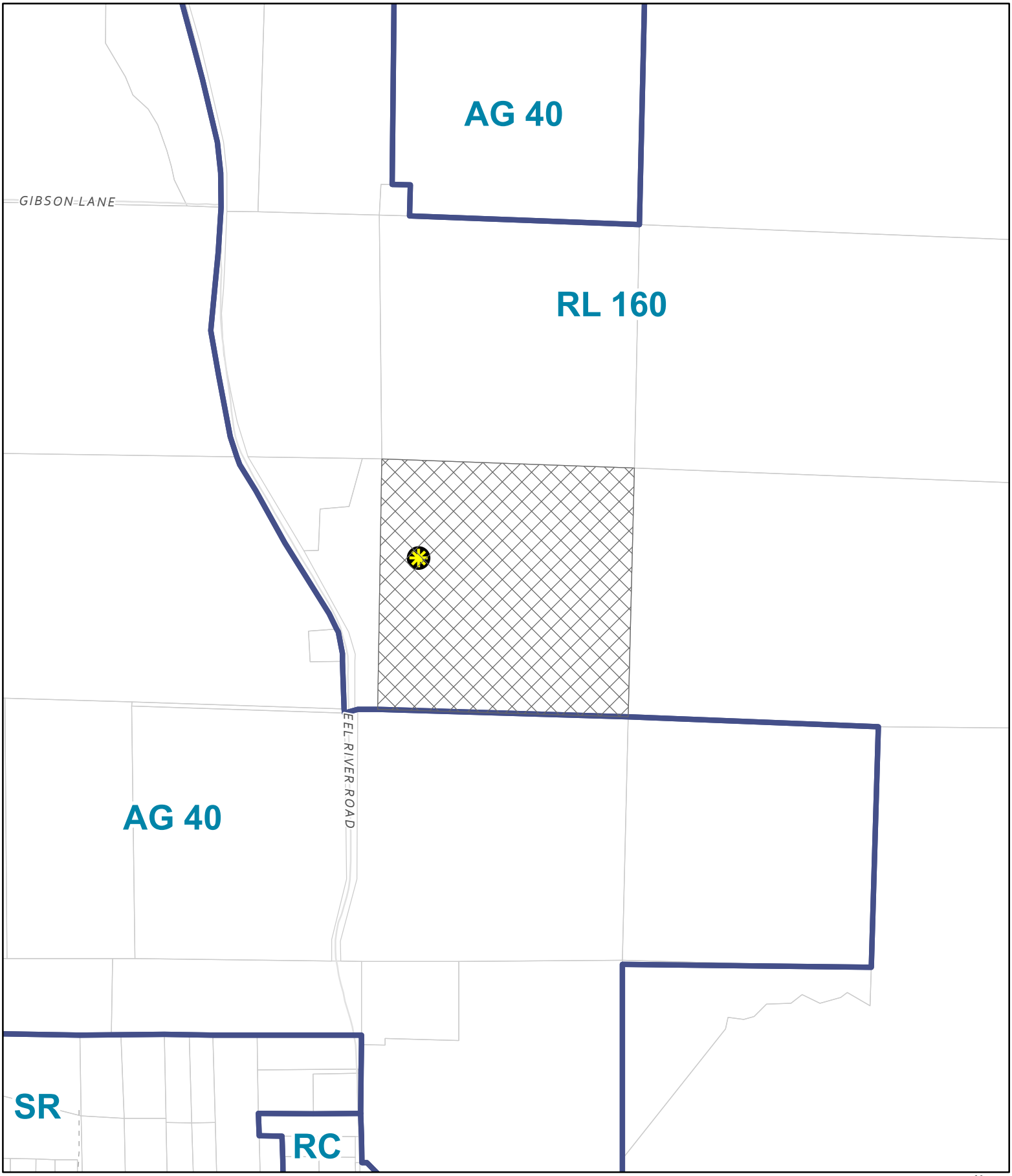
CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

Zoning Districts
Assessors Parcels
Public Roads
Approved Wireless Sites
Private Roads

0 362.5 725 Feet
0 0.05 0.1 Miles

1:8,000

ZONING



CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

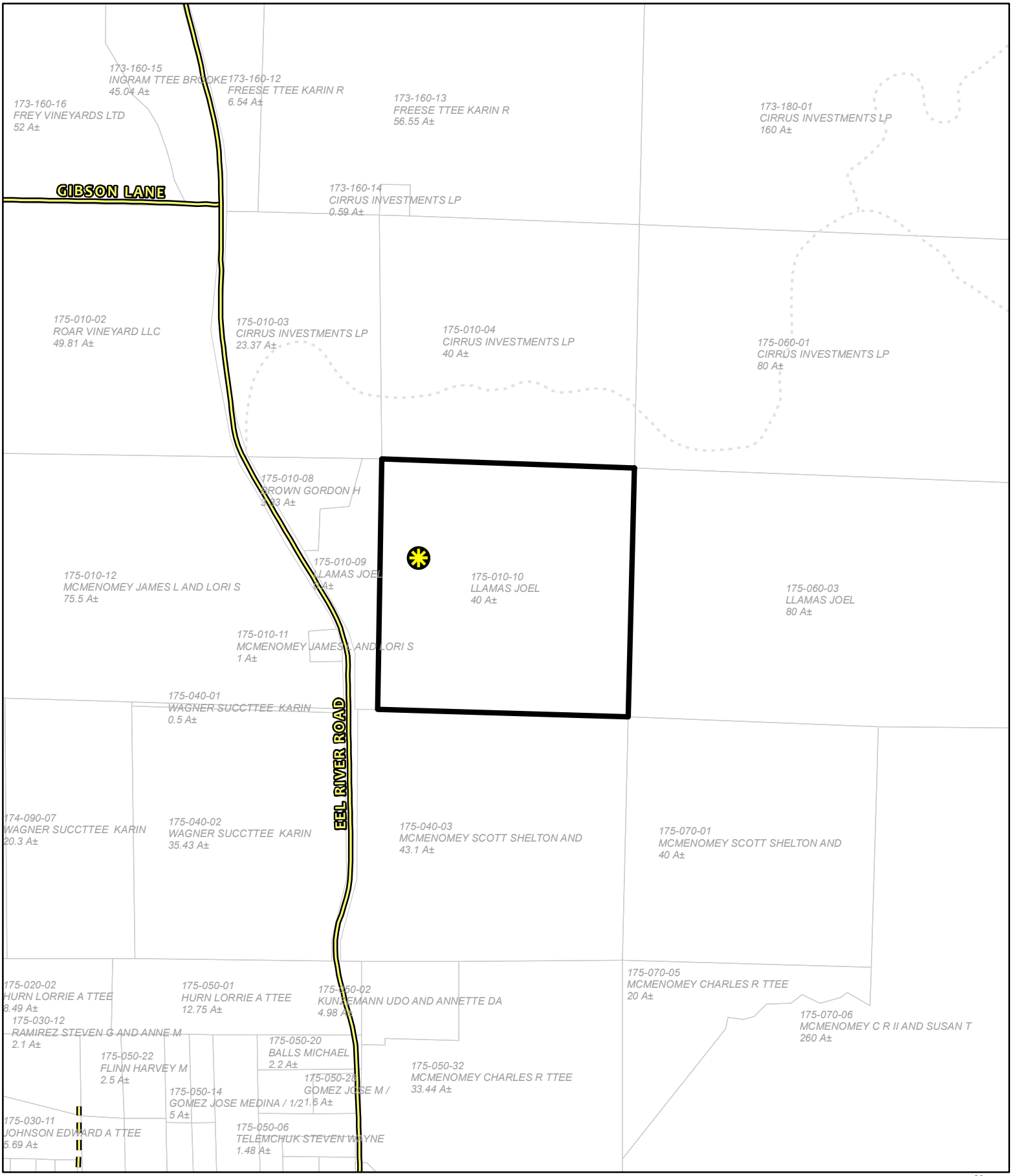
Public Roads
Private Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

GENERAL PLAN



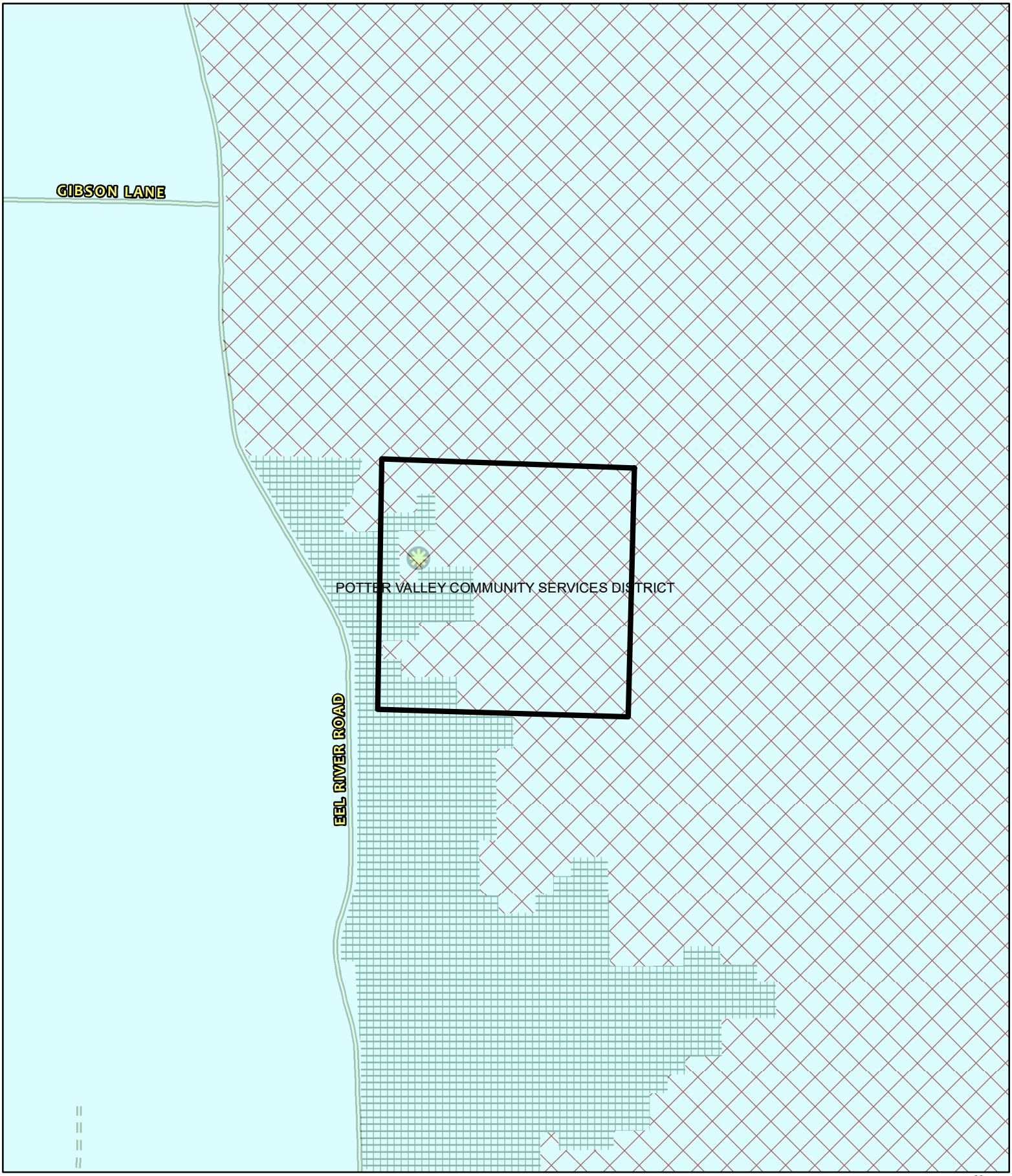
CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

Public Roads
Private Roads
Driveways/Unnamed Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles
1:8,000

N W E S

ADJACENT PARCELS



CASE: AP 2024-0013
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APN: 175-010-10
APLCT: Victoria Chhun
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ADDRESS: 12531 Eel River Rd, Potter Valley

High Fire Hazard
Moderate Fire Hazard
County Fire Districts
Public Roads
Private Roads
Driveways/Unnamed Roads
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

1:8,000

N
W E
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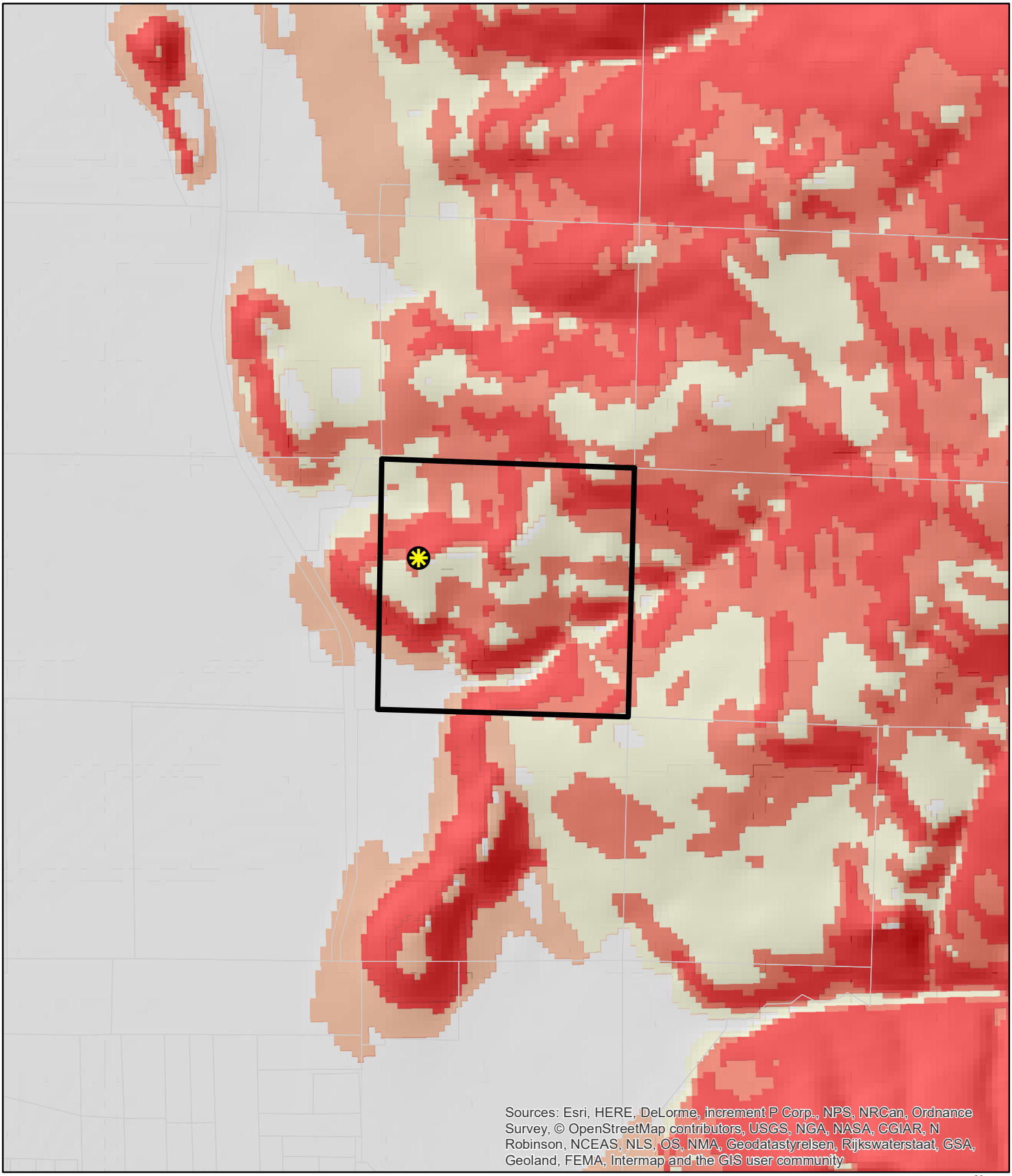
FIRE HAZARD ZONES & RESPONSIBILITY AREAS
STATE RESPONSIBILITY AREA



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APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

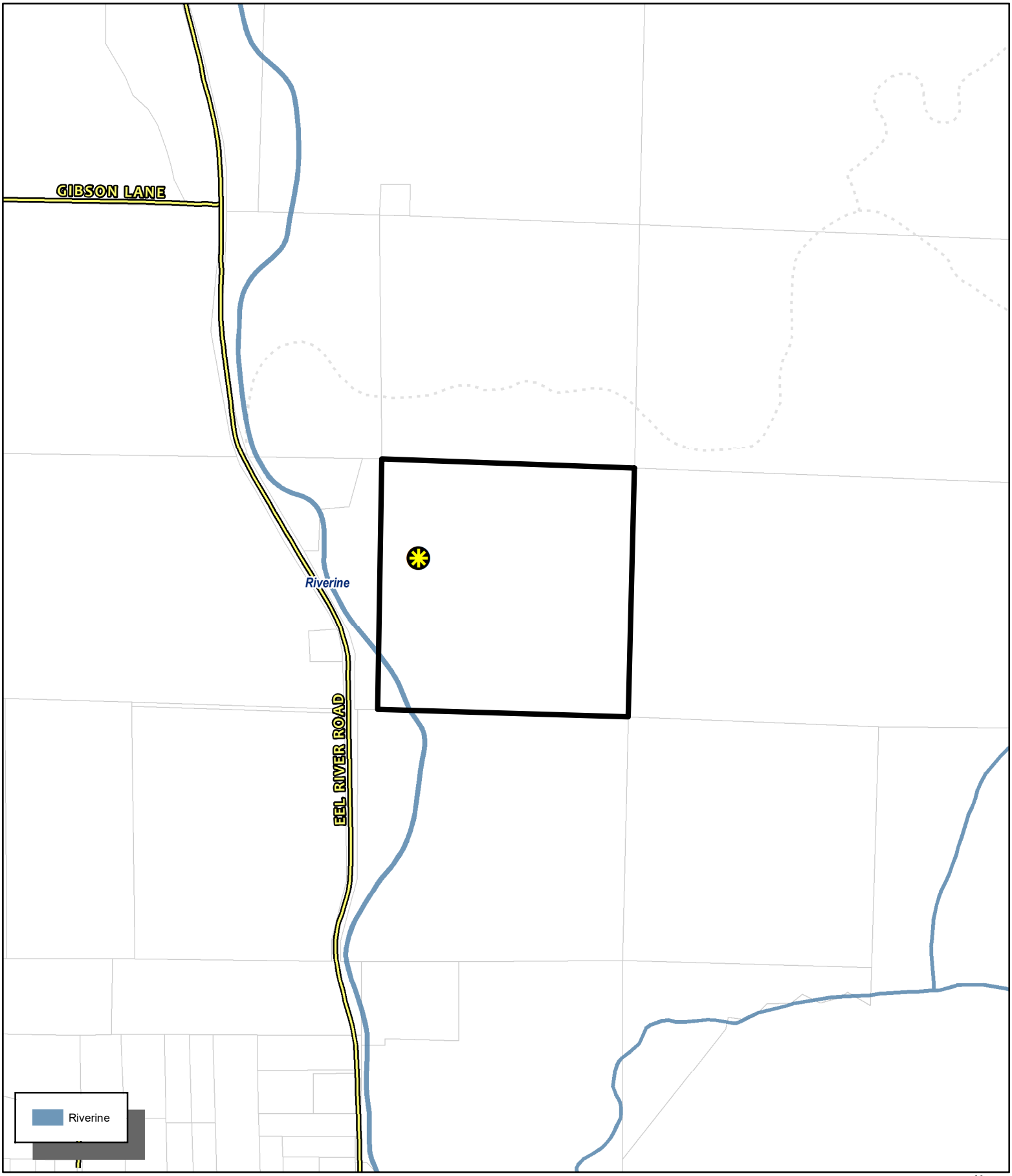
Assessors Parcels
Approved Wireless Sites
0
0 - 5
5 - 7
7 - 8
8 - 10

0 362.5 725 Feet
0 0.05 0.1 Miles

N W E S

1:8,000

LANDSLIDE HAZARDS



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ADDRESS: 12531 Eel River Rd, Potter Valley

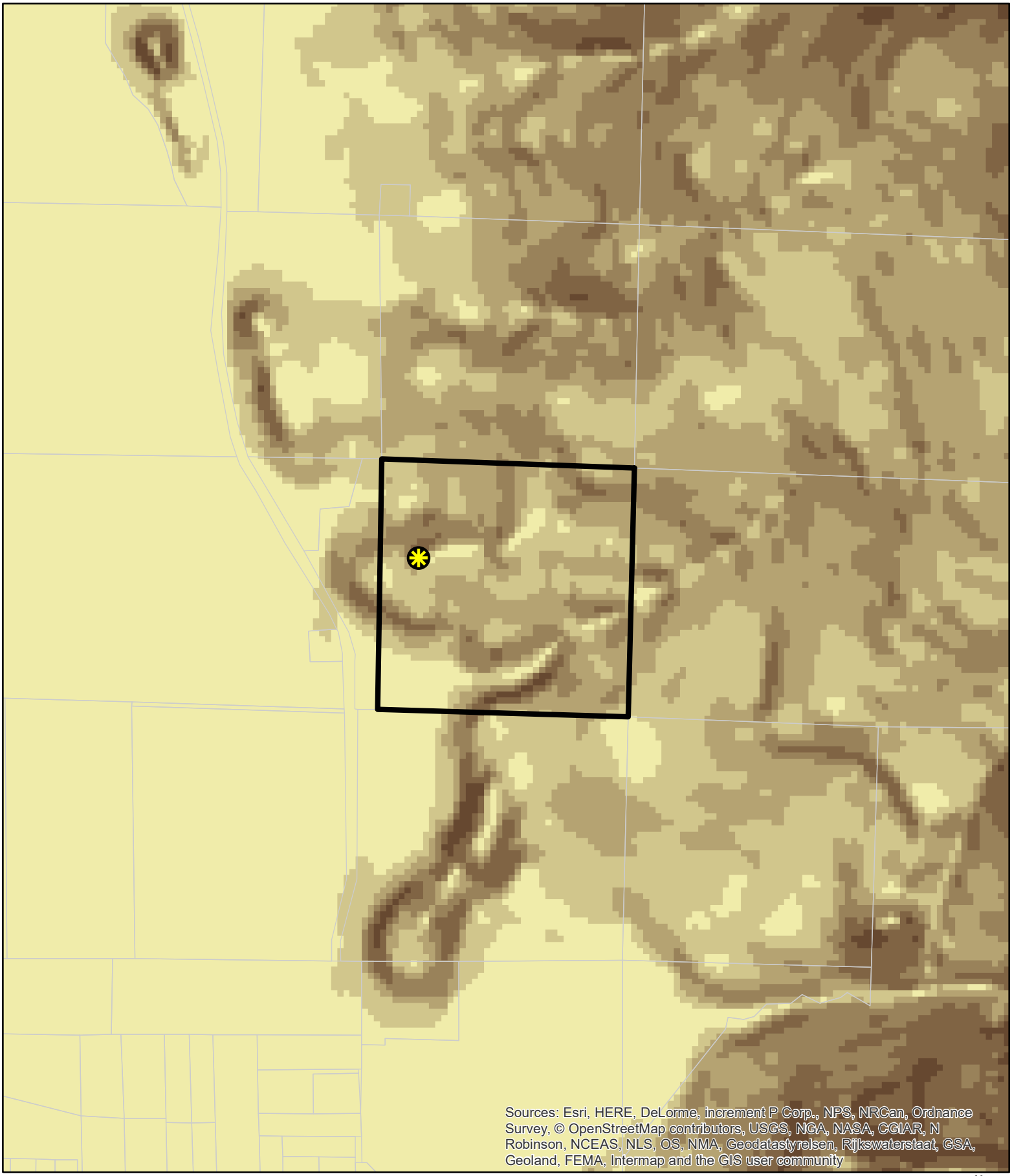
Public Roads
Private Roads
Driveways/Unnamed Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

WETLANDS



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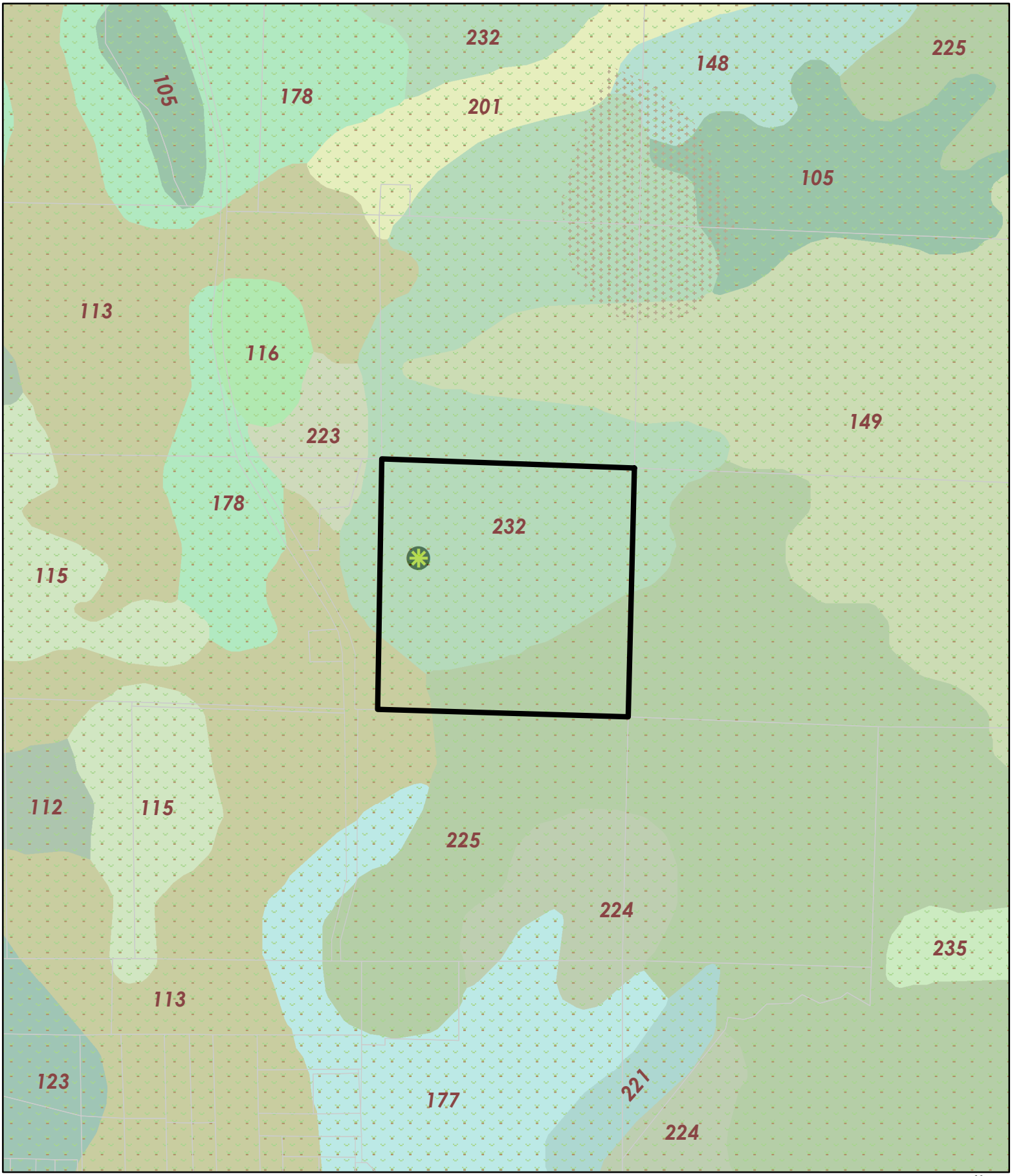
Assessors Parcels
Approved Wireless Sites
0° - 14°
14° - 30°
30° - 42°
42° - 52°
52° - 61°
61° - 86°

0 362.5 725 Feet
0 0.05 0.1 Miles
1:8,000

N W E S

ESTIMATED SLOPE



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APLCT: Victoria Chhun
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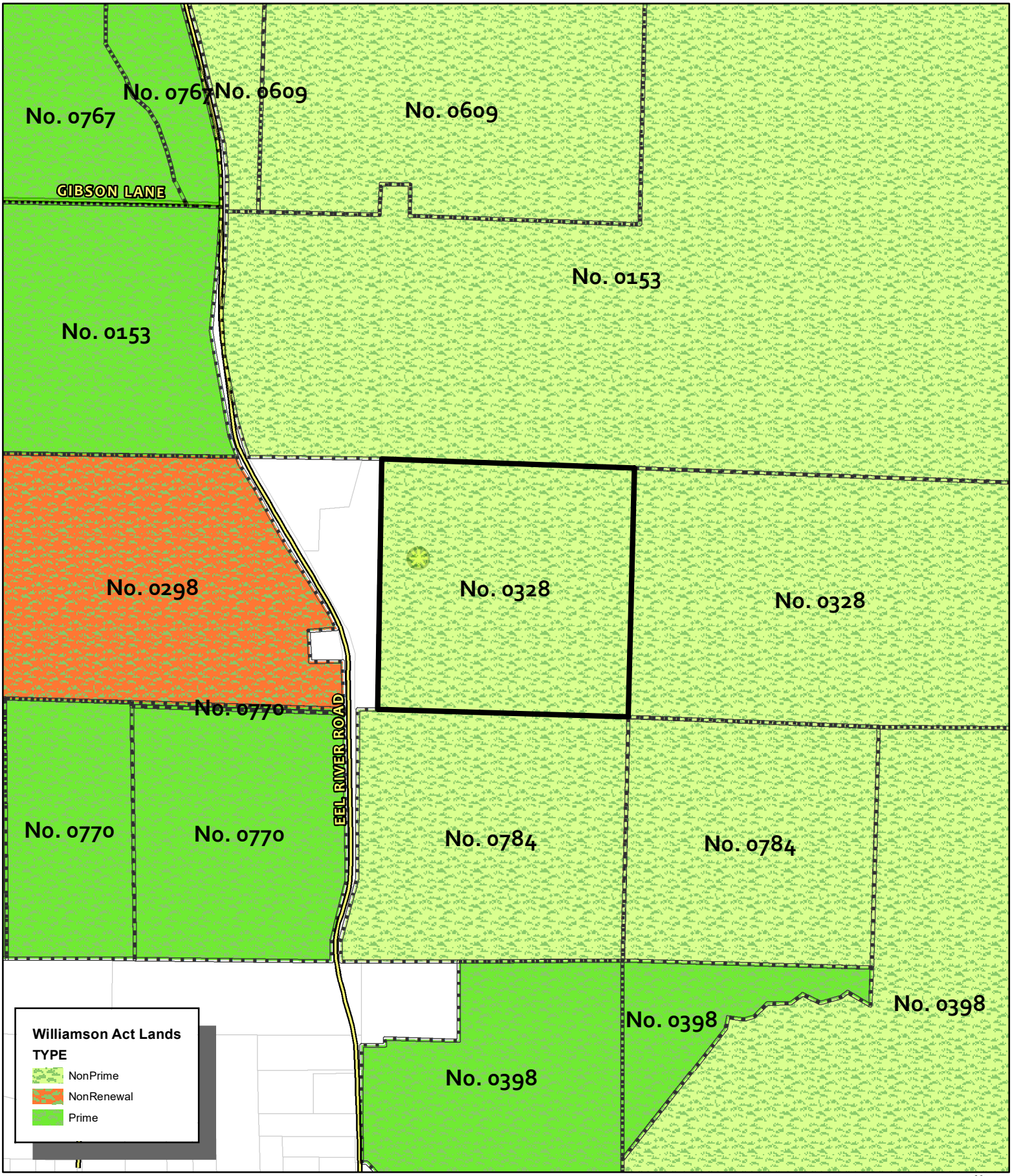
ADDRESS: 12531 Eel River Rd, Potter Valley

Assessors Parcels
Ultramafic Rock
Naturally Occurring Asbestos
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles
1:8,000

N
W E
S

EASTERN SOIL CLASSIFICATIONS



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OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

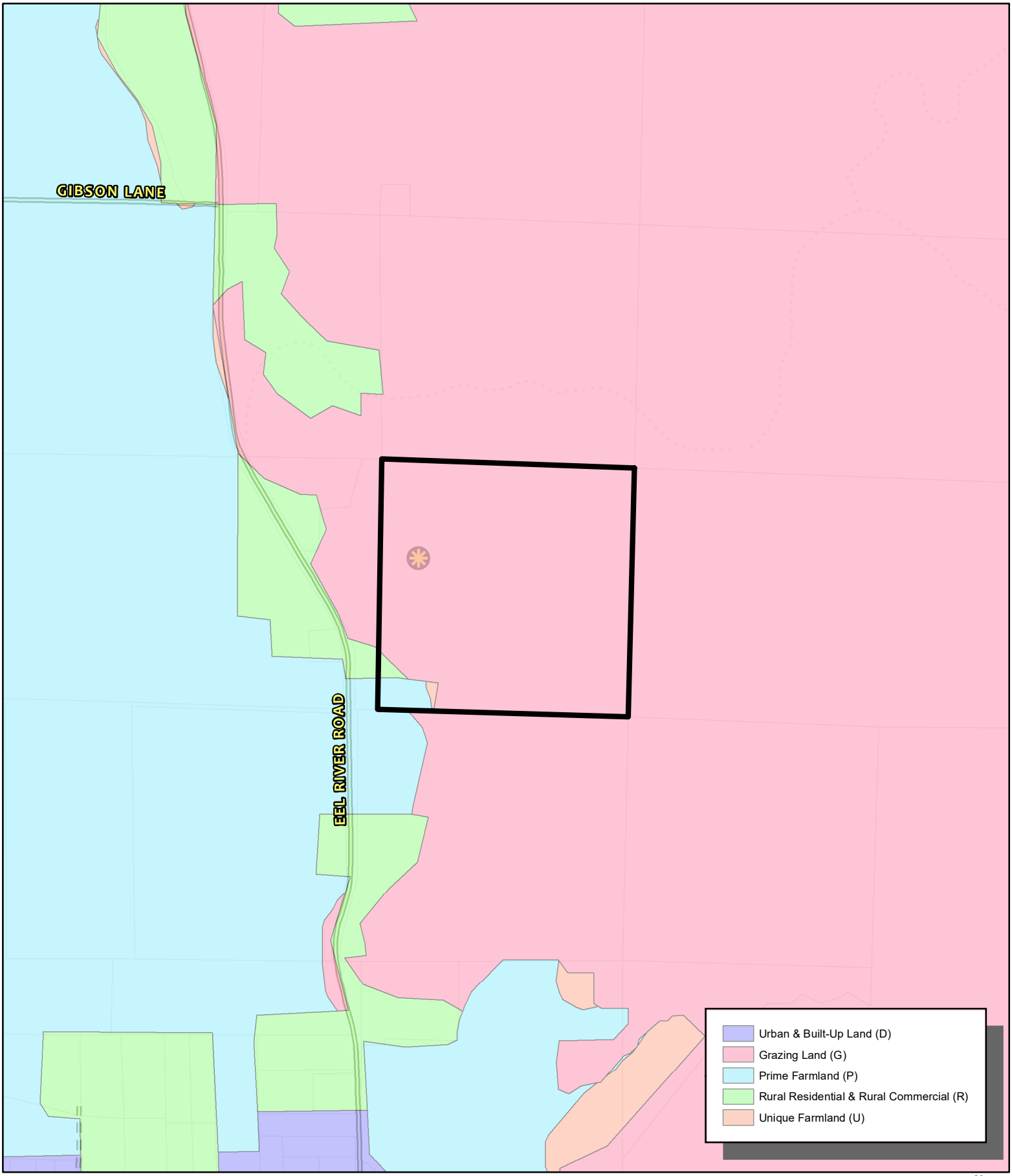
Public Roads
Private Roads
Driveways/Unnamed Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

WILLIAMSON ACT



CASE: AP 2024-0013
OWNER: Global Signal Acquisitions
APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

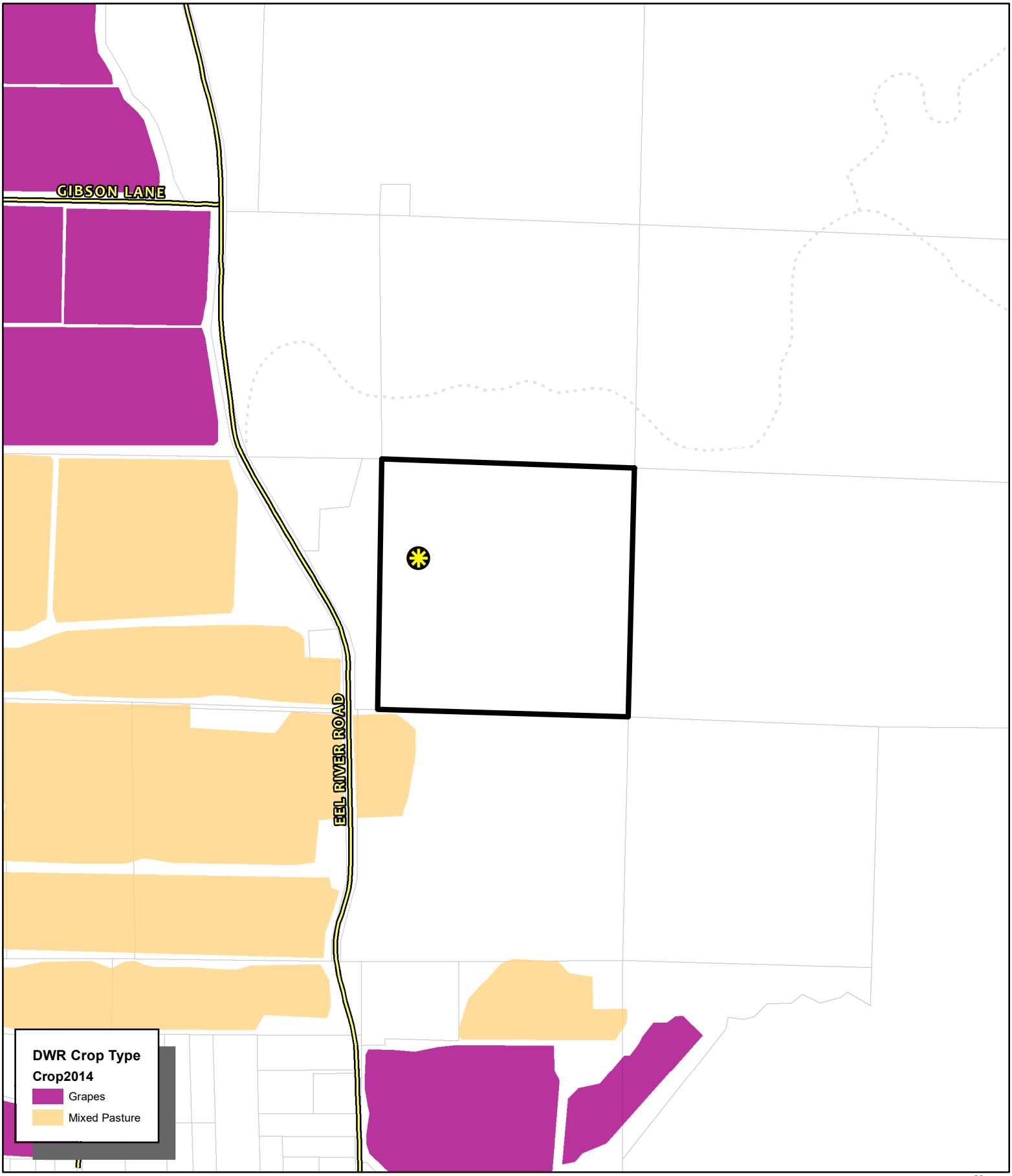
Public Roads
Private Roads
Driveways/Unnamed Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

FARMLAND CLASSIFICATIONS



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AGENT: Victoria Chhun
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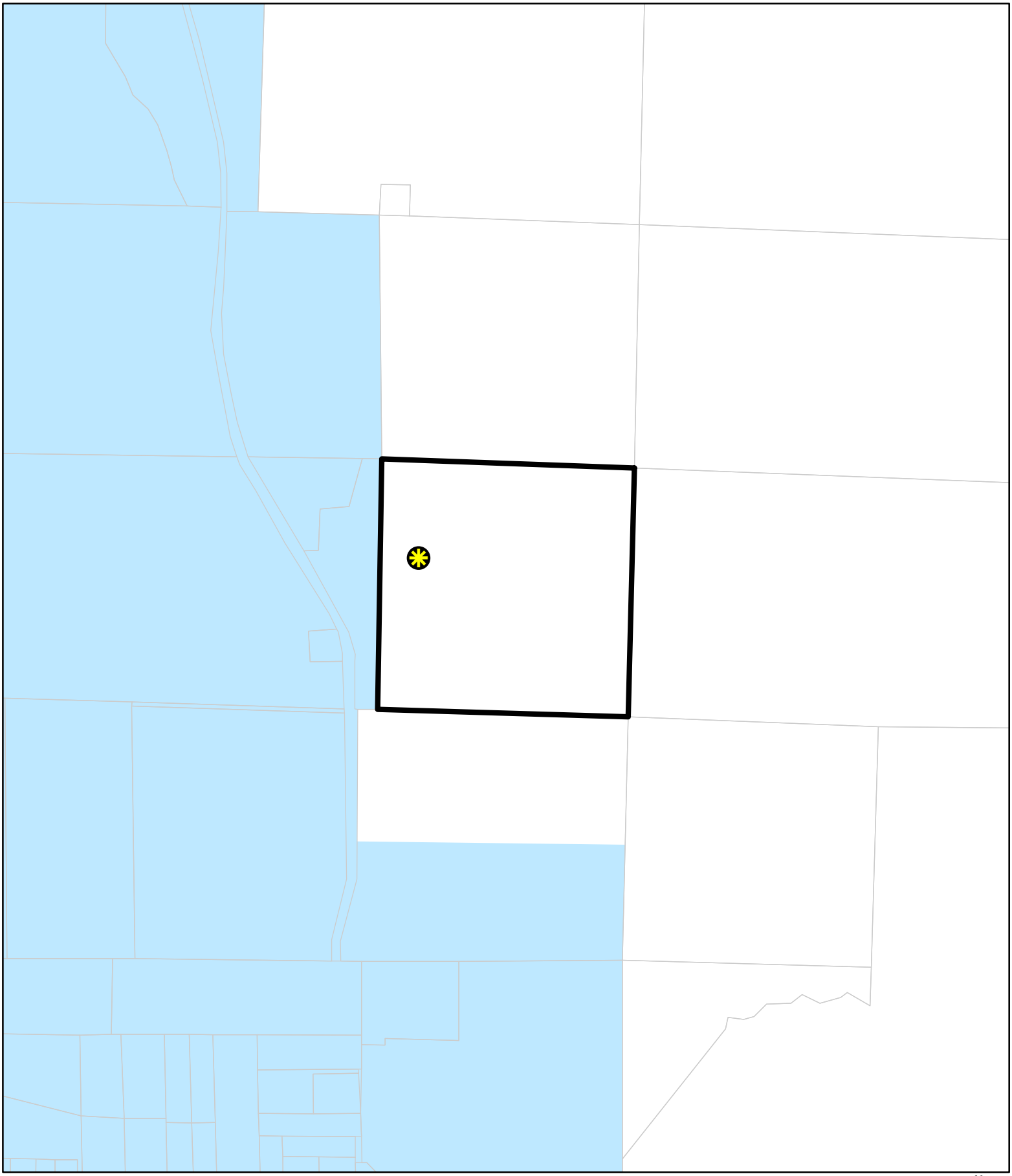
Public Roads
Private Roads
Driveways/Unnamed Roads
Assessors Parcels
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles
1:8,000

N W E S

CROP TYPES



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APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

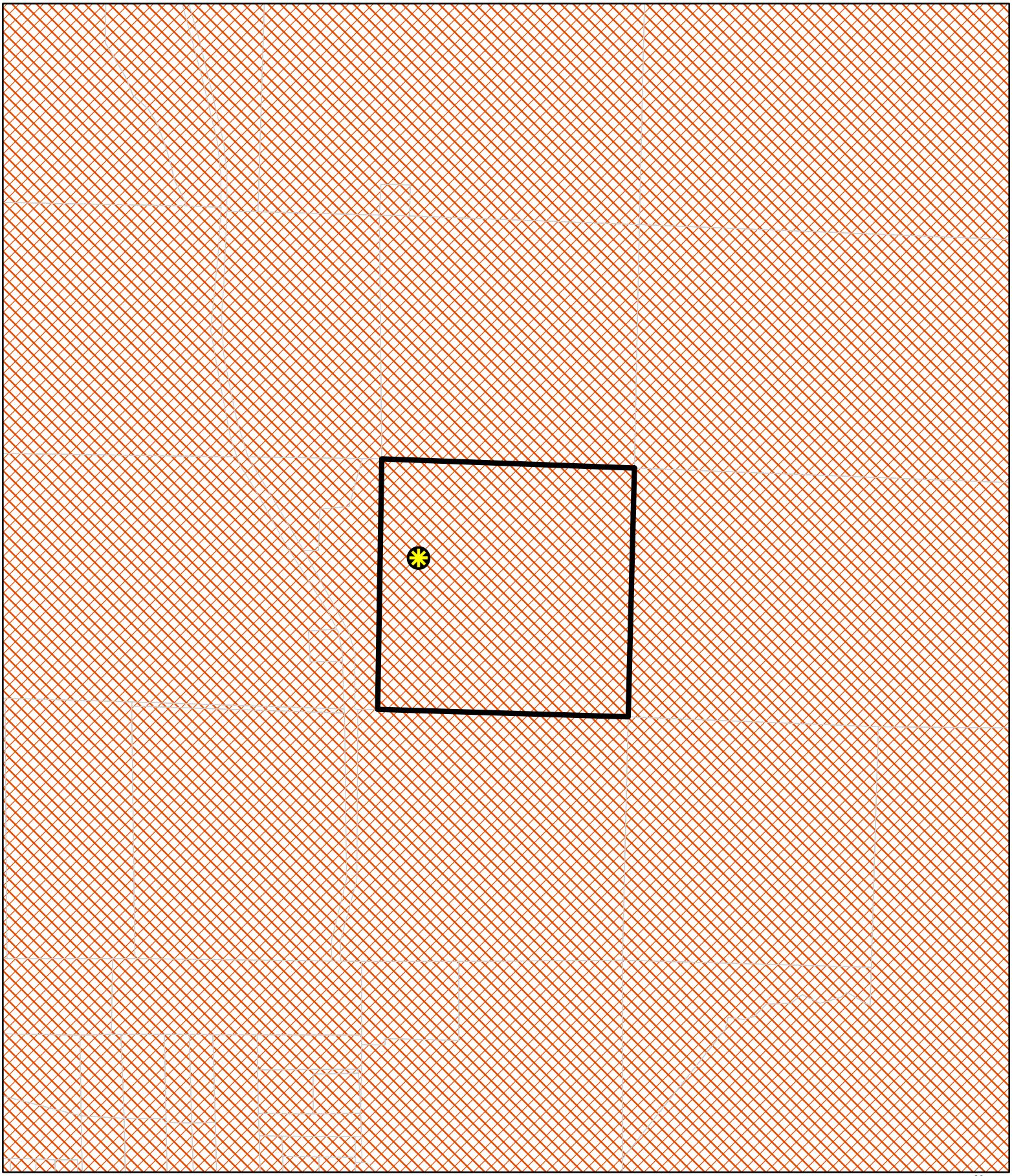
Assessors Parcels
County Water Districts
Approved Wireless Sites

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

WATER DISTRICT



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APN: 175-010-10
APLCT: Victoria Chhun
AGENT: Victoria Chhun
ADDRESS: 12531 Eel River Rd, Potter Valley

Assessors Parcels
Approved Wireless Sites
PV Tribe Ancestral Areas

0 362.5 725 Feet
0 0.05 0.1 Miles

N
W E
S

1:8,000

POTTER VALLEY TRIBE ANCESTRAL AREA