



**COUNTY OF MENDOCINO**  
**DEPARTMENT OF PLANNING AND BUILDING SERVICES**

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October 31, 2024

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN THAT the Mendocino County Zoning Administrator, at its regular meeting on Thursday, November 14, 2024, at 1:30 PM., will conduct a public hearing on the following project(s) at the time listed or as soon thereafter as the item may be heard. This meeting will take place at the Planning & Building Services Conference Room, located at 860 North Bush Street, Ukiah and virtual attendance will be available via Zoom. Meetings are live streamed and available for viewing online on the Mendocino County YouTube page, at <https://www.youtube.com/MendocinoCountyVideo>. In lieu of personal attendance the public may participate digitally in meetings by sending comments to [pbscommissions@mendocinocounty.gov](mailto:pbscommissions@mendocinocounty.gov) or via Telecomment. The telecomment form may be found at: <https://www.mendocinocounty.gov/departments/planning-building-services/public-hearing-bodies>.

**CASE#:** AP 2024-0028

**DATE FILED:** 9/11/2024

**OWNER:** Thomas McGuire

**APPLICANT/AGENT:** Crown Castle Inc/Tihtina Sintayehu

**REQUEST:** Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one Commscope USX6-11W microwave dish, two Ceragon-Fibeair 1P-20A\_RFU-D-HP ODU, two Amphenol-Duplex Armor I/O MW line, 2 Amphenol-2CX14AWG MW line, one 2 inch Innerduct, Commscope-RM-DM-6 with modifications per mount analysis by Trylon.

**ENVIRONMENTAL DETERMINATION:** Categorically Exempt

**LOCATION:** 3± miles northeast of the City of Fort Bragg, lying on the east side of Bald Hill Road (CR 421A), 1.95± miles northeast of its intersection with Pudding Creek Road (CR 421); located at 21929 Bald Hill Rd., Fort Bragg; APN: 069-270-14.

**SUPERVISORIAL DISTRICT:** 4 (Gjerde)

**STAFF PLANNER:** Keith Gronendyke

The staff report and notice will be available for public review 10 days prior to the hearing on the Department of Planning and Building Services website at: <https://www.mendocinocounty.gov/departments/planning-building-services/public-hearing-bodies>.

Your comments regarding the above project(s) are invited. Written comments should be submitted by mail to the Department of Planning and Building Services Commission Staff, at 860 North Bush Street, Ukiah, California. The public may participate digitally in meetings by emailing comments to [pbscommissions@mendocinocounty.gov](mailto:pbscommissions@mendocinocounty.gov) by November 13, 2024, or orally via telecomment in lieu of personal attendance. All public comment will be made available to the Zoning Administrator, staff, and the general public as they are received and processed by staff, and can be viewed as attachments to this meeting agenda at <https://www.mendocinocounty.gov/departments/planning-building-services/public-hearing-bodies>.

The Zoning Administrator's action regarding this item shall be final unless appealed to the Board of Supervisors. The last day to file an appeal of the Zoning Administrator's decision is the 10th day after the hearing. To file an appeal, a written statement must be filed with the Clerk of the Board with a filing fee prior to the expiration of the above noted appeal period. If you challenge the project in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Department of Planning and Building Services at, or prior to, the public hearing. All persons are invited to appear and present testimony in this matter.

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE. Mendocino County complies with ADA requirements and upon request, will attempt to reasonably accommodate individuals with disabilities by making meeting material available in appropriate alternate formats (pursuant to Government Code Section 54953.2). Anyone requiring reasonable accommodation to participate in the meeting should contact the Department of Planning and Building Services by calling 707-234-6650 at least five days prior to the meeting.

Additional information regarding the above noted item(s) may be obtained by calling the Department of Planning and Building Services at 707-234-6650, Monday through Friday, 8:00 a.m. through 5:00 p.m. Should you desire notification of the Zoning Administrator's decision you may do so by requesting notification in writing and providing a self-addressed stamped envelope to the Department of Planning and Building Services.

JULIA KROG, Director of Planning and Building Services



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**ZONING ADMINISTRATOR  
STAFF REPORT- ADMINISTRATIVE PERMIT**

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**NOVEMBER 14, 2024  
AP\_2024-0028**

**PROJECT SUMMARY**

**OWNER:** McGuire Family Trust  
22501 Bald Hill Road  
Fort Bragg CA 95437

**APPLICANT/AGENT:** T-Mobile West LLC  
Crown Castle/Tihtina Sintayehu  
2000 Corporate Drive  
Canonsburg PA 15317

**REQUEST:** Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one Commscope USX6-11W microwave dish, two Ceragon-Fibeair 1P-20A\_RFU-D-HP ODU, two Amphenol-Duplex Armor I/O MW line, 2 Amphenol-2CX14AWG MW line, one 2 inch Innerduct, Commscope-RM-DM-6 with modifications per mount analysis by Trylon.

**LOCATION:** 3± miles northeast of the City of Fort Bragg, lying on the east side of Bald Hill Road (CR 421A), 1.95± miles northeast of its intersection with Pudding Creek Road (CR 421); located at 21929 Bald Hill Rd., Fort Bragg; APN: 069-270-14.

**TOTAL ACREAGE:** 314± Acres

**GENERAL PLAN:** Rangeland 160-Acre Minimum (RL:160)

**ZONING:** Rangeland 160-Acre Minimum (R-L 160)

**SUPERVISORIAL DISTRICT:** 4 (Gjerde)

**RECOMMENDATION:** Approve with Conditions

**STAFF PLANNER:** Keith Gronendyke

**PROJECT DESCRIPTION:** Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one Commscope USX6-11W microwave dish, two Ceragon-Fibeair 1P-20A\_RFU-D-HP ODU, two Amphenol-Duplex Armor I/O MW line, 2 Amphenol-2CX14AWG MW line, one 2 inch Innerduct, Commscope-RM-DM-6 with modifications per mount analysis by Trylon.

**APPLICANT'S STATEMENT:** *"Tower scope of work: Install one (1) Commscope-USX6-11W microwave dish, install two (2) Ceragon fibeair ip-20A RFU-D-HP ODU, install two (2) amphenol-duplex armor I/O mw line, install two (2) amphenol-2CX14AWG MW line, install one (1) 2" innerduct, install Commscope-RM-DM-6 with modifications per mount analysis by Trylon dated 07/05/24.*

**RELATED APPLICATIONS:**

- **U 12-2002:** Use Permit to construct a new telecommunications facility at the existing communications site on Bald Hill. The facility consisted of nine panel antennas and two microwave

dishes collocated on an existing one hundred fifty (150) foot tall lattice tower, an eight (8) by fourteen (14) foot equipment shelter, a standby generator, a propane fuel tank, and a new six (6) foot chain link fence. Approved 02/25/2003.

- **UM 12-2002/2012:** Use Permit modification to allow for the addition of one new six (6) foot diameter microwave dish to an existing one hundred fifty (150) foot tall lattice tower. Approved 05/17/2012.
- **AP 5-2014:** Administrative Permit for the replacement of three (3) existing panel antennas with six (6) Long Term Evolution (LTE) panel antennas and auxiliary equipment on an existing one hundred fifty (150) foot tall lattice tower. Approved 07/21/2014.
- **AP\_2016-0028:** Administrative Permit for US Cellular antenna modifications to an existing tower which included decommissioning and removal of two (2) existing antennas, four (4) 7/8" coaxial cables, and the installation of four (4) antennae, one (1) Hybrid cable, one (1) power cable, six (6) FRLB remote radio heads, two (2) Raycap surge protectors, twelve (12) Kaelus combiners, and two (2) stackable FXCB remote radio heads. Approved 06/20/2017.
- **AP\_2019-0059:** Administrative Permit to add one (1) panel antenna along with three (3) RRH units to an existing one hundred fifty (150) foot tall lattice type cellular antenna tower. Approved 09/18/2019.
- **AP\_2021-0015:** Administrative Permit to modify a one hundred fifty (150) foot tall telecommunications facility and install six (6) panel antennas, six (6) RRHs, one (1) hybrid cable, one (1) RAYCAP, one (1) RAYCAP Fiber Slack Tray, and remove decommissioned equipment. No addition in tower height, no groundwork, and no electrical work was proposed. Approved 12/21/2021.
- **UR\_2023-0008:** Renewal of Use Permit Modification UM 12-2002/2012 to allow an existing cellular antenna facility to remain. The renewal was granted for a ten (10) year period. Approved 05/02/2024.
- **AP\_2024-0018:** Administrative Permit to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of three (3) panel antennas, three (3) RRHs with integrated antennas, six (6) RRHs, one (1) surge protector, one (1) hybrid cable, fifty-one (51) jumper cables, and one (1) slack tray. The project would also involve the removal of eleven (11) antennas, fifteen (15) RRHs, ten (10) cables, twelve (12) combiners, two (2) surge protectors, and one (1) CDMA rack.
- **BF\_2021-1011:** Building permit to add/replace antenna & RRU's to existing (150) foot tall telecommunications facility- Expired with no inspections.
- **BF\_2020-0280:** Building permit to Upgrade existing (150) foot tall telecommunications facility, add and replace antennas/RRU's- Expired with only utility inspection.
- **BF\_2018-1158:** Building permit to install EW90 Waveguide Cable to existing microwave dish on (150) foot tall telecommunications facility- Expired with no inspections.
- **BF\_2017-1137:** Building permit to remove and replace 9 antennas, mounts and replace and install RRU's to existing (150) foot tall telecommunications facility- Expired with no inspections.
- **BF\_2016-0202:** Building permit application to install microwave dish to existing (150) foot tall telecommunications facility- plan review completed, fees due, expired but not issued.

**SITE CHARACTERISTICS:** The site is located on a 314± acre lot that is primarily used for agricultural and is subject to a Williamson Act contract. The site is accessed by a private road easement that extends north from the terminus of the County-maintained portion of Bald Hill Road (CR 421A). The site contains a 2,400 square foot leased area surrounded by a chain link fence. The facility is unmanned and operates 24 hours

a day, 7 days a week. The facility contains a 150 foot tall lattice tower, propane tanks, generators, equipment shelters, and electrical panels.

**SURROUNDING LAND USE AND ZONING:** The property is surrounded on the east and west by parcels in agricultural preserve and feature open space land for cattle grazing along with the planting of row crops on the parcel to the east. Many of the adjacent parcels are under the same ownership as the subject property as well. The following table summarizes adjacent land uses, zoning and property sizes:

**PUBLIC SERVICES:**

Access: Bald Hill Road (CR 421A)  
 Water District: None  
 Sewer District: None  
 Fire District: Fort Bragg Rural Fire Protection District

**AGENCY COMMENTS:** On September 26, 2024, project referrals were sent to the following responsible or trustee agencies with jurisdiction over the Project. A summary of the submitted agency comments are listed below.

REFERRAL AGENCIES	COMMENT
Assessor’s Office	No Response
Building Inspection Fort Bragg	No Response
Mendocino County Air Quality Management	No Response
Department of Transportation	No Response
Environmental Health	No Response
Fort Bragg Rural Fire District	No Response
CAL FIRE (Land Use)	No Response
Cloverdale Rancheria	No Response
Redwood Valley Little River Band of Pomo Indians	No Response
Sherwood Valley Band of Pomo Indians	No Response

**PROJECT ANALYSIS**

**GENERAL PLAN CONSISTENCY:** According to the General Plan Land Use Map, the property is classified as Rangeland (RL:160). Per General Plan Policy DE-17, the Rangeland Land Use Classification is intended,

*“...to be applied to lands which are suited for and are appropriately retained for the grazing of livestock. The classification should include land eligible for incorporation into Type II agricultural preserves, other lands generally in range use, intermixed smaller parcels and other contiguous lands, the inclusion of which is necessary for the protection and efficient management of range lands. The policy of the County and the intent of this classification shall be to protect these lands from the pressures of development and preserve them for future use as designated.”*

The Project would not interfere with the agricultural viability of the property because the facility modifications would not convert agricultural land to another use. All modifications would occur within the existing leased area. The overall Wireless Telecommunication Facility use was established and approved for renewal under prior use permits. Therefore, the Project is consistent with the intent of the RL:160 classification. The proposed project is also supported by General Plan Policy DE-206 which directs the County to “encourage appropriate utility infrastructure necessary to support social and economic needs including wired, wireless, and satellite communications.”

**ZONING DISTRICT CONSISTENCY:** The property is within the Rangeland (R-L) zoning district. Per Mendocino County Code (MCC) Section 20.060.005, the R-L zoning district is intended,

*“...to create and preserve areas for (A) the grazing of livestock, (B) the production and harvest of natural resources, and (C) the protection of such natural resources as watershed lands from fire, pollution, erosion, and other detrimental effects. Processing of products produced on the premises would be permitted as would certain commercial activities associated with crop and animal raising. Typically, the R-L District would be applied to lands for incorporation into Type H Agricultural Preserves, other lands generally in range use, and intermixed smaller parcels and other contiguous lands, the inclusion of which is necessary for the protection and efficient management of rangelands.”*

As noted above, the project would not interfere with the agricultural viability of the property. As such, the intent of the R-L district would be preserved. The wireless communication facility uses and structures were established under prior use permits, including an increased height of the tower beyond the ordained R-L district height limit. The proposed modifications would not substantially change the physical dimensions of the existing facility, and thus are consistent with the existing use and structures. The proposed modifications conform to the requirements of the R-L district because the modifications would not increase the height of the existing tower, would not encroach upon any setbacks, and would not increase residential density.

In accordance with MCC Section 20.236.020, the proposed modifications meet the definition of an “eligible facilities request” and are therefore permitted upon the issuance of an Administrative Permit. The Project involves collocation, removal, or replacement of transmission equipment. The requirements of the County Guidelines for the Development of Wireless Communication Facilities do not apply because the modifications are considered an eligible facilities request. Per 47 Code of Federal Regulations Section 1.6100, the antennas and associated equipment to be located within the existing wireless communication facility are considered an eligible facilities request because the modifications would not increase the height of the tower, antennas would not protrude more than 20± feet from the edge of the tower, the modifications would not include new equipment cabinets, the modifications would not extend beyond the existing boundaries of the compound area permitted under prior use permits, and the modifications are consistent with prior governing use permit conditions (as discussed below). These conclusions are derived from the set of plans submitted with the application and attached hereto.

As conditioned, the proposed modifications and continued use of the facility would be required to comply with existing conditions adopted as part of prior use permits and subsequent Administrative Permit modification conditions. Staff reviewed the proposal against the conditions of approval contained in prior entitlements and found no inconsistencies.

**CALIFORNIA GOVERNMENT CODE CONSISTENCY:** Section 65850.6 of the California Government Code regulates wireless telecommunication facilities. The Project is consistent with this section and complies with the following (code text italicized):

*City or county requirements for a wireless telecommunications collocation facility that specifies types of wireless telecommunications facilities that are allowed to include a collocation facility, or types of wireless telecommunications facilities that are allowed to include certain types of collocation facilities; height, location, bulk, and size of the wireless telecommunications collocation facility; percentage of the wireless telecommunications collocation facility that may be occupied by collocation facilities; and aesthetic or design requirements for the wireless telecommunications collocation facility.*

The proposed modifications include additional antennas and appurtenant equipment located on an existing wireless communication facility. As discussed above, the proposed modifications are considered an eligible facilities request and are therefore consistent with County requirements, including Mendocino County Code Section 20.236.020.

*City or county requirements for a proposed collocation facility, including any types of collocation facilities that may be allowed on a wireless telecommunications collocation facility: height, location, bulk, and size of allowed collocation facilities; and aesthetic or design requirements for a collocation facility.*

As discussed above, the proposed modifications comply with Mendocino County Code Section 20.236.020 and are not subject to County Guidelines for the Development of Wireless Communication Facilities.

*State and local requirements, including the general plan, any applicable community plan or specific plan, and zoning ordinance.*

As discussed above, the proposed modifications have been found to be consistent with applicable General Plan policies and zoning ordinance chapters.

**The California Environmental Quality Act (CEQA):** The request for this Administrative Permit does not require expansion of the existing compound. The project is categorically exempt from the California Environmental Quality Act (CEQA), Class 1b, Section 15301(b). This exemption covers the “minor alteration” of existing facilities involving negligible or no expansion of use. The project does not propose any major alterations, expansion of use, or change of use and therefore qualifies for this exemption

**FEDERAL MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT CONSISTENCY:** Section 6409 of this act prevents local governments from denying eligible facilities requests that do not substantially change the physical dimensions of existing towers. As shown in the submitted plans, the modifications would not increase the height of the existing tower, would not involve the installation of new equipment cabinets or shelters, would not add any appurtenance to the tower which would protrude from the edge of the tower more than 20 feet, and would not involve excavation outside the current tower site. Therefore, the Project is consistent with Section 6409 of this act.

**WILLIAMSON ACT CONTRACT CONSISTENCY:** The property is within Agricultural Preserve No. 0186 and is subject to a Williamson Act Contract. Per Section 12.2(A) of the Mendocino County Policies and Procedures for Agricultural Preserves and Williamson Act Contracts, the landowner shall obtain clearance from the Department of Planning & Building Services that the proposed development or use will comply with the contract and the Policies and Procedures prior to issuance of any permit. Therefore, the proposed development must comply with the Compatible Use requirements contained in Section 9.3 and 9.4 of the Policies and Procedures:

**Per Section 9.3(A),** the proposed modifications would take place entirely within an existing wireless communication facility approved by prior use permits. The proposed development would not change the underlying Major Impact Services and Utilities use (as defined in Mendocino County Code Section 20.020.075). This use type is a Compatible Use enumerated in Section 9.5(F)(2) of the Policies and Procedures.

**Per Section 9.3(B),** the Board of Supervisors has not adopted any resolutions or ordinances imposing conditions upon the subject parcel beyond those already included in the associated Williamson Act contract.

**Per Section 9.3(C),** modifications to the existing facility comply with Government Code Section 51238.1 because the modifications will occur entirely within an existing leased area approved by prior use permits. No additional agricultural land would be converted to non-agricultural land. The loss of potentially productive agricultural land was addressed previously when the associated use permits were approved. Government Code Sections 51238.2 and 51238.3 do not apply to the proposed development.

**Per Section 9.4(A),** modifications to the existing facility would occur entirely within the existing leased area approved by prior use permits. The leased area occupies two thousand four hundred (2,400) square feet of the parcel. As no additional agricultural land would be converted to non-agricultural use, there would be no impact to the five (5) acre limitation for Compatible Uses on this site.

### **PROJECT FINDINGS & CONDITIONS OF APPROVAL**

Mendocino County Code Chapter 20.192 does not outline specific findings that must be made to support approval of an Administrative Permit. Rather, Section 20.192.025(A)(1) authorizes the Zoning Administrator to “*make such findings or other determination as is required by the pertinent sections of this Division and approve the application.*” Therefore, staff will use the Use Permit findings contained in Section 20.196.020 as a basis for findings in support of this Administrative Permit. Any other pertinent findings shall be included.

### **FINDINGS:**

**Pursuant to MCC Section 20.196.020(A)**, the establishment, maintenance, or operation of the use and building applied for is in conformity to the General Plan. The Project site is within the Remote Residential (RL:160) classification. The Project is consistent with the intent of the RL:160 classification (Policy DE-17) because it would not interfere with the agricultural viability of the property. The facility modifications would not convert agricultural land to another use. All modification would occur within the existing compound area. The overall Wireless Telecommunication Facility use was established and approved for renewal under prior Use Permits. The proposed project is also supported by General Plan Policy DE-206 which directs the County to “*encourage appropriate utility infrastructure necessary to support social and economic needs including wired, wireless, and satellite communications;*” and

**Pursuant to MCC Section 20.196.020(B)**, adequate utilities, access roads, drainage, and other necessary facilities have been or are being provided. All proposed modifications would be located on the existing tower, ancillary equipment, or within the existing compound area. The facility does not require a water supply or sewage disposal system. Adequate utilities and facilities were established when the wireless communication facility was first permitted, and staff has found that the site continues to comply with the ongoing conditions of approval contained in prior entitlements; and

**Pursuant to MCC Section 20.196.020(C)**, such use will not, under the circumstances of this particular case, constitute a nuisance or be detrimental to the health, safety, peace, morals, comfort, or general welfare of persons residing or working in or passing through the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the county. The proposed modifications would not substantially change the physical dimensions of the tower. The Project is not expected to utilize any hazardous materials or generate substantial noise; and

**Pursuant to MCC Section 20.196.020(D)**, such use preserves the integrity of the zoning district. As shown in the submitted plans, the Project conforms to the requirements of the Rangeland (R-L) zoning district and prior entitlements, including setbacks, height limit, and residential density. The Project preserves the integrity of the zoning district because Project activities would be limited to the existing compound area and would not encroach upon other portions of the property. The project would be limited to the existing compound area. Therefore, additional agricultural or residential land would not be converted to non-agricultural or non-residential use; and

The project is consistent with Section 6409 of the Federal Middle Class Tax Relief and Job Creation Act of 2012. As shown in the submitted plans, the modifications would not increase the height of the existing tower, would not involve the installation of new equipment cabinets or shelters, would not add any appurtenance to the tower which would protrude from the edge of the tower more than 20 feet, and would not involve excavation outside the current tower site; and

The Project is not expected to involve ground disturbance because new antennae and other equipment would be attached directly to the existing tower. Nevertheless, staff recommends a condition of approval informing the applicant of the “Discovery Clause”, which establishes procedures and regulations for any unanticipated discovery of archaeological resources or human remains.

**CONDITIONS OF APPROVAL:**

**Previous Use Permit Renewal (UR\_2023-0008) Conditions:**

**CONDITIONS OF APPROVAL:**

1. This action shall become final on the 11<sup>th</sup> day following the decision unless an appeal is filed pursuant to Section 20.208.015 of the Mendocino County Code. This permit shall become effective after the ten (10) day appeal period has expired and no appeal has been filed.
2. **This permit shall expire on May 17, 2032.** The applicant has the sole responsibility for submitting a completed application for a use permit renewal before the expiration date. **The County will not provide a notice prior to the expiration date.**



3. The use and occupancy of the premises shall be established and maintained in conformance with the provisions of Title 20 of the Mendocino County Code.
4. The application along with supplemental exhibits and related materials shall be considered elements of this entitlement and compliance therewith shall be mandatory, unless a modification has been approved by the Planning Commission.
5. This permit shall be subject to revocation or modification by the Planning Commission upon a finding of any one (1) or more of the following:
  - a. That the permit was obtained or extended by fraud.
  - b. That one or more of the conditions upon which the permit was granted have been violated.
  - c. That the use for which the permit was granted is conducted in a manner detrimental to the public health, welfare, or safety, or is a nuisance.
  - d. A final judgement in a court of competent jurisdiction has declared one or more conditions to be void or ineffective or has enjoined or otherwise prohibited the enforcement or operation of one or more such conditions.
6. This permit is issued without a legal determination having been made upon the number, size, or shape of parcels encompassed within the permit boundaries. Should, at any time, a legal determination be made that the number, size, or shape of parcels within the permit boundaries are different than that which is legally required by this permit, this permit shall become null and void.
7. This permit shall be subject to the securing of all necessary permits for the proposed project from County, State, and Federal agencies having jurisdiction.
8. This permit shall be subject to the applicable conditions of approval set forth in the previous governing Use Permit UM 12-2002/2012. Within 30 days of approval, the applicant shall submit to Planning and Building Services a signed letter of acknowledgement stating that they have read all Conditions of Approval for this permit as well as previously approved Use Permits and that this project will be consistent with all applicable conditions.
9. The applicant shall provide an updated irrevocable letter of credit, bond, certificate of deposit, or other reasonable form of security satisfactory to County Counsel, sufficient to fund the removal of the facility and restoration of the site in the event that the applicant abandons operations or fails to comply with requirements for removal of facilities and restoration of the site.
10. Future modifications to the subject facility shall conform to the Wireless Communication Facilities Development Guidelines adopted by the Board of Supervisors on August 4, 2015, unless conditionally approved by modification of this governing permit and shall be considered cumulatively to determine if request constitutes a "substantial change" to the facility under applicable federal law.

**Administrative Permit (AP\_2024-0028) conditions:**

1. This action shall become final on the 11th day following the decision unless an appeal is filed pursuant to Section 20.208.015 of the Mendocino County Code. The permit shall become effective after the ten (10) working day appeal period to the Board of Supervisors has expired and no appeal has been filed with the Clerk of the Board. The permit shall expire and become null and void at the expiration of two years after the effective date except where construction and/or use of the property in reliance on such permit has been initiated prior to its expiration. Such permit vesting shall include approved permits associated with this project (i.e. building permits, septic permits, well permits,

etc.) and physical construction in reliance of such permits, or a business license demonstrating establishment of a use proposed under this project.

2. The use and occupancy of the premises shall be established and maintained in conformance with the provisions of Division I of Title 20 of the Mendocino County Code.
3. To remain valid, progress towards completion of the project must be continuous. The Applicants have sole responsibility for renewing this application before the expiration date. The County will not provide a notice prior to the expiration date.
4. The application, along with supplemental exhibits and related material, shall be considered elements of this permit, and that compliance therewith is mandatory, unless an amendment has been approved by the Zoning Administrator.
5. This permit shall be subject to the securing of all necessary permits for the proposed development from County, State and Federal agencies having jurisdiction.
6. All Expired Building permits for modifications to the existing telecommunications facility must be reinstated and finalized for compliance with Building Regulations and Mendocino County Code. Additionally, any expired building applications must either be canceled, if the work was not completed with outstanding fees paid, or reinstated and issued to legalize past work to the facility.
7. This permit shall be subject to revocation or modification upon a finding of any one or more of the following:
  - a. The permit was obtained or extended by fraud.
  - b. One or more of the conditions upon which the permit was granted have been violated.
  - c. The use for which the permit was granted is conducted so as to be detrimental to the public health, welfare or safety, or to be a nuisance.
  - d. A final judgment of a court of competent jurisdiction has declared one or more conditions to be void or ineffective or has enjoined or otherwise prohibited the enforcement or operation of one or more such conditions.
8. This permit is issued without a legal determination having been made upon the number, size or shape of parcels encompassed within the permit described boundaries. Should, at any time, a legal determination be made that the number, size or shape of parcels within the permit described boundaries are different than that which is legally required by this permit, this permit shall become null and void.
9. If any archaeological sites or artifacts are discovered during site excavation or construction activities, the property owner shall cease and desist from all further excavation and disturbances within 100 feet of the discovery and make notification of the discovery to the Director of the Department of Planning and Building Services. The Director will coordinate further actions for the protection of the archaeological resources in accordance with Section 22.12.090 of the Mendocino County Code.
10. Conditions approving this administrative permit shall be attached to or printed on any building permit application and shall be a part of on-site construction drawings.
11. This permit is subject to the applicable conditions of approval set forth in Use Permit Renewal UR\_2023-0008 including, but not limited to the following:

12. Exterior light fixtures shall be designed or located so that only reflected, non-glaring light is visible from beyond the immediate vicinity of the site and shall be turned off except when in use by facility personnel.
13. The facility shall provide, if requested, space for any emergency service provider to locate communication equipment on the tower, provided no interference to function will result at a minimum or no fee.
14. Existing trees and other vegetation, which provide screening for the facility and associated access roads, shall be protected from damage. No trees that provide visual screening of the communications facility shall be removed after project completion except to comply with fire safety regulations or to eliminate safety hazards. Tree trimming shall be limited to the minimum necessary for operation of the facility.
15. The antennas and supporting structure shall be inspected every ten years, and following significant storm or seismic events, by a structural engineer licensed in the State of California to assess their structural integrity, and a report of the engineer's findings shall be submitted to the Planning and Building Services Department.
16. The applicant shall submit to Planning & Building Services within 30 days of approval a signed letter of acknowledgement stating that they have read all Conditions of Approval for the previously approved Use Permit and Administrative Permits and that the project will be consistent with all conditions.
17. Increases or changes to hazardous materials stored on-site shall be submitted to the California Environmental Report System within 30 days.
18. Future modifications shall be considered cumulatively to determine if the request constitutes a "substantial change" to the facility under applicable federal law.
19. If the Wireless Communication Facility should cease operation or the facility be abandoned for a period exceeding one year or more, the use shall be deemed invalid, and a new Use Permit shall be required to resume operation of a wireless communication facility.

#### PROJECT RECOMMENDATION

The Zoning Administrator finds the project to be Categorically Exempt from CEQA and grants an Administrative Permit for the Project, as proposed by the applicant, based on the facts and findings and subject to the conditions of approval.

10-24-2024

DATE

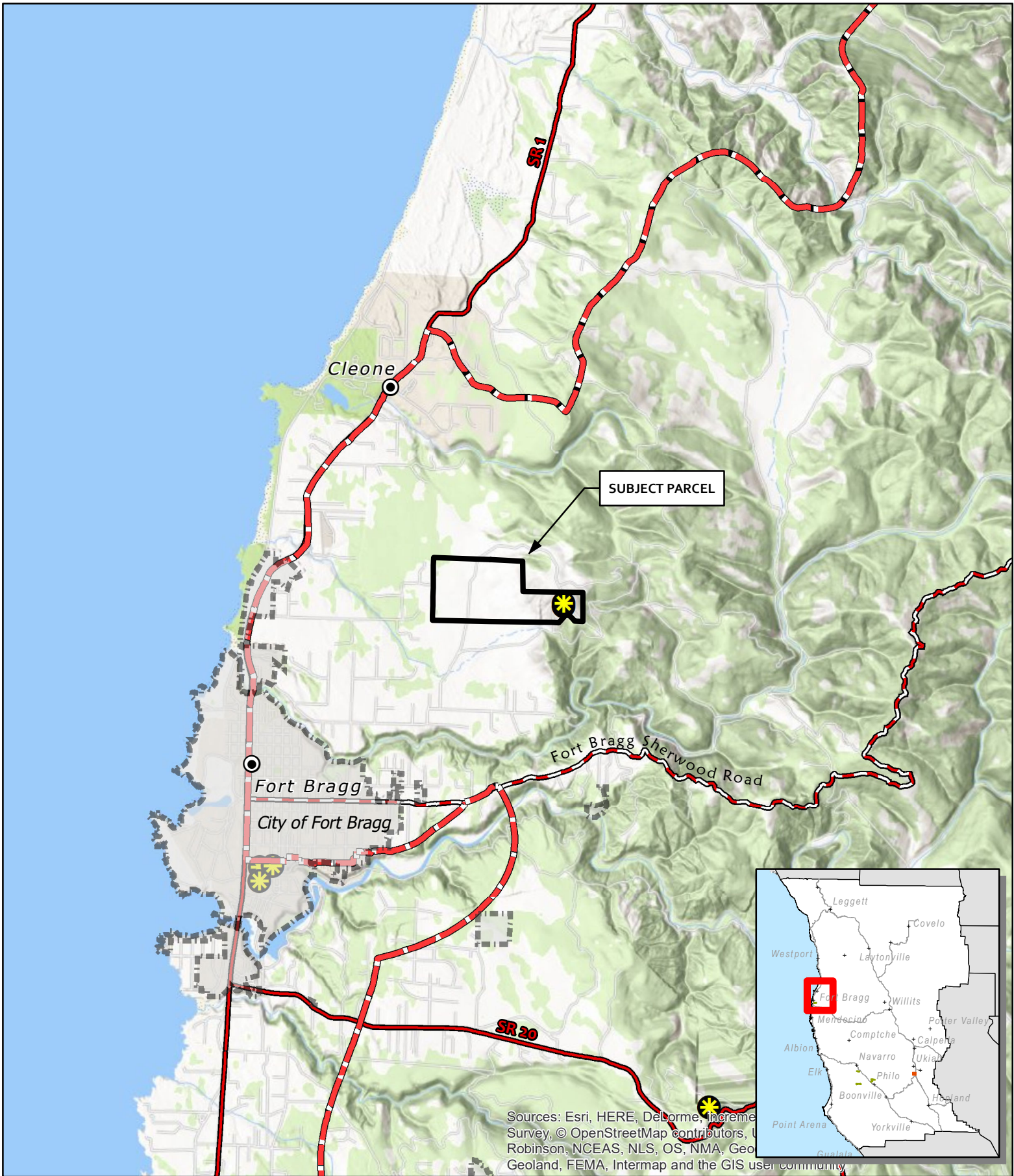
  
\_\_\_\_\_  
KEITH GRONENDYKE  
PLANNER III

Appeal Period: 10 Days







Appeal Fee: \$2,674.00

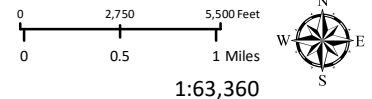
**ATTACHMENTS:**

- A. Location Map
- B. Aerial Imagery (vicinity)
- C. Aerial Imagery
- D. Application
- E. Construction Drawings
- F. Zoning Display Map
- G. General Plan Classification Map
- H. FHZ Map
- I. WUI
- J. Slope
- K. Soil
- L. Topographic Map
- M. Crops Map
- N. Important Farmlands Map
- O. Wetlands
- P. Williamson Act Map
- Q. Schools
- R. Adjacent Parcels



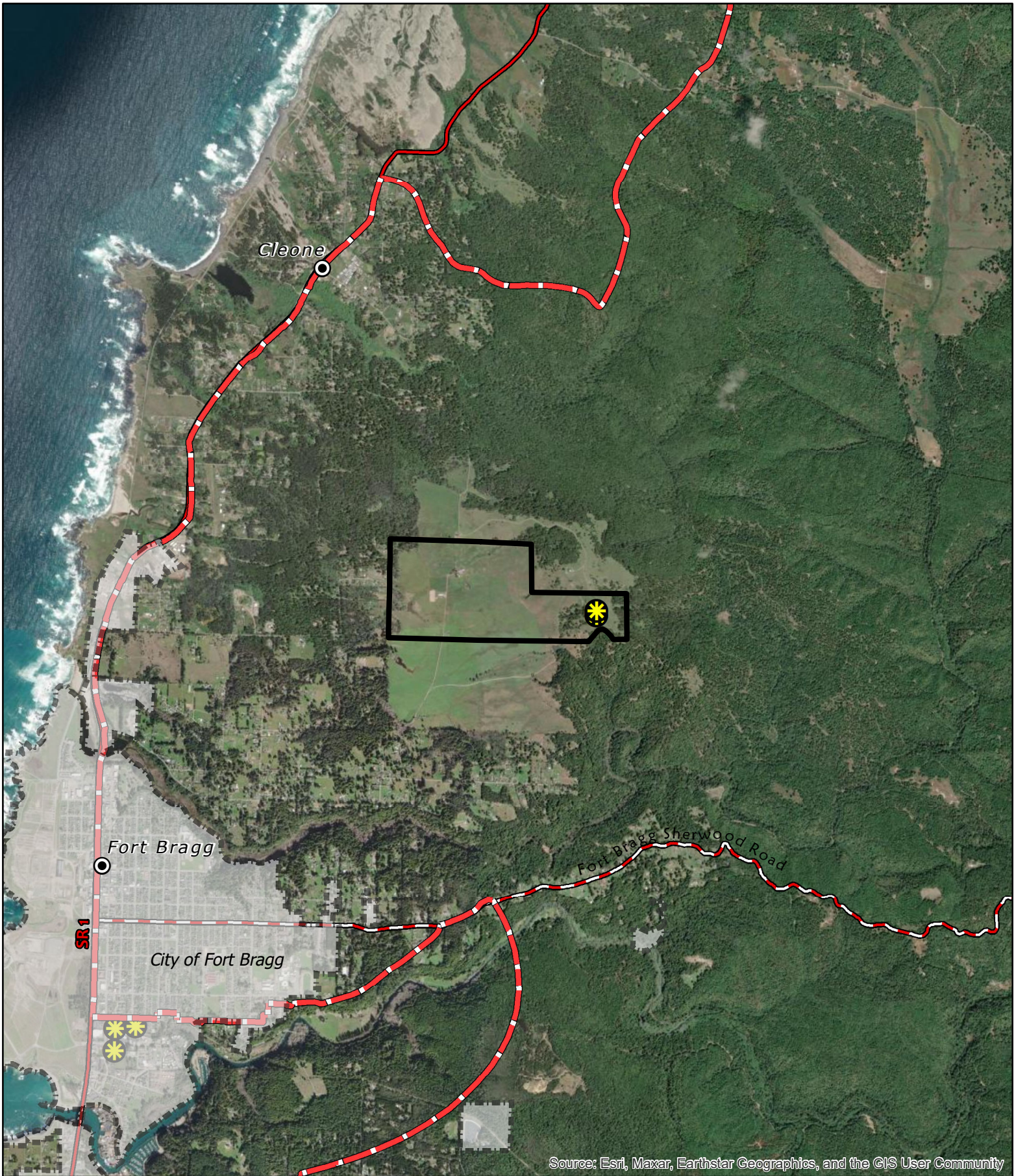
**CASE:** AP 2024-0028  
**OWNER:** McGuire Family Trust  
**APN:** 069-270-14  
**APLCT:** T-Mobile West LLC  
**AGENT:** T-Mobile West LLC  
**ADDRESS:** 22501 Bald Hill Rd

-  Major Towns & Places
-  City Limits
-  Coastal Zone Boundary
-  Highways
-  Major Roads
-  Approved Wireless Sites









LOCATION

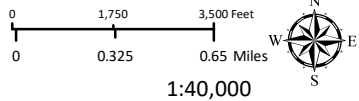
**THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.  
 DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES**



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

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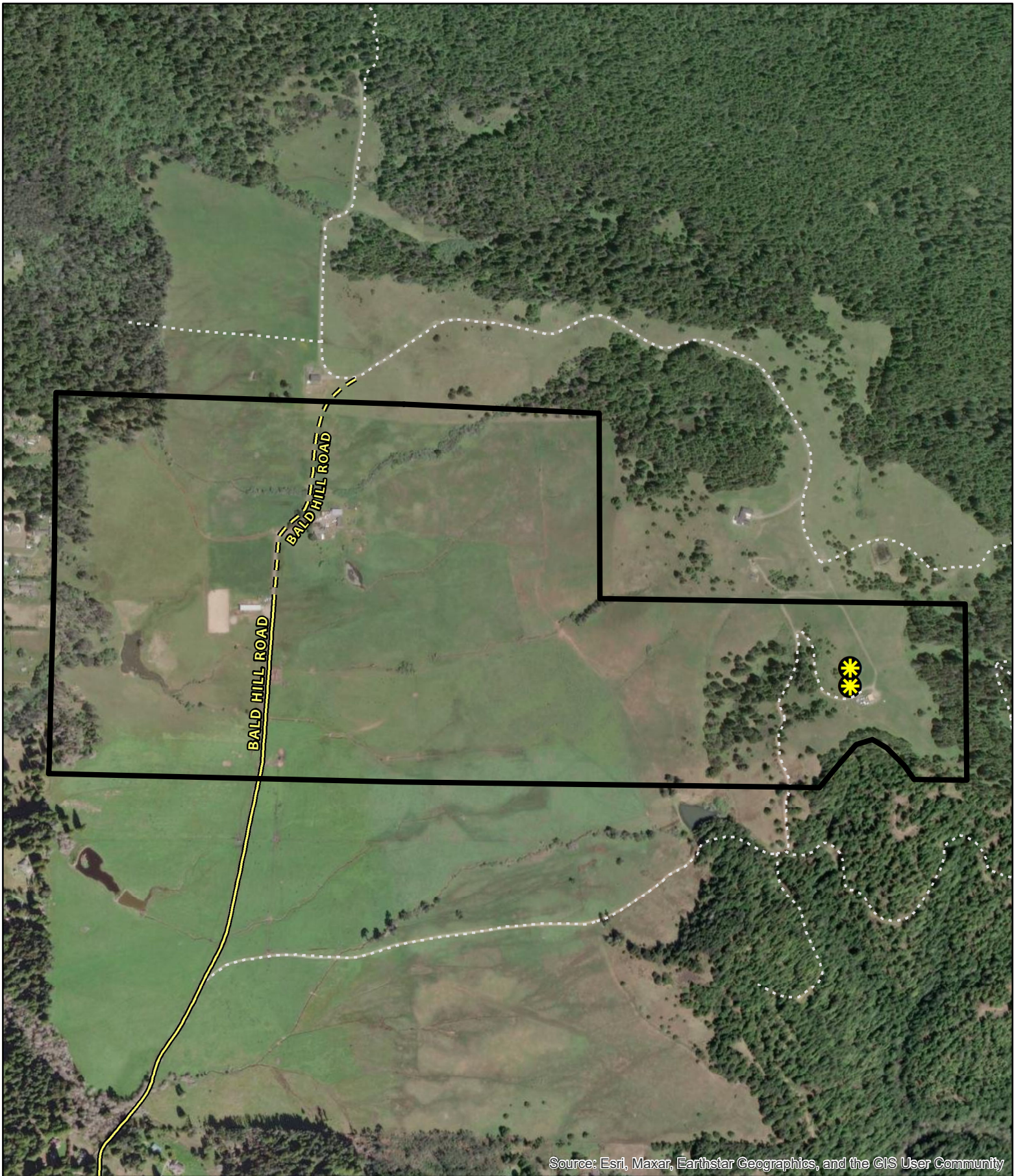
-  Major Towns & Places
-  Highways
-  Major Roads
-  City Limits
-  Coastal Zone Boundary
-  Approved Wireless Sites



1:40,000



AERIAL IMAGERY


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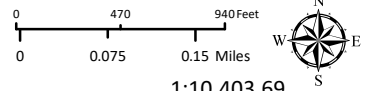


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

**CASE:** AP 2024-0028  
**OWNER:** McGuire Family Trust  
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**APLCT:** T-Mobile West LLC  
**AGENT:** T-Mobile West LLC  
**ADDRESS:** 22501 Bald Hill Rd

-  Public Roads
-  Private Roads
-  Driveways/Unnamed Roads

 Approved Wireless Sites



1:10,403.69

AERIAL IMAGERY

**THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.  
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES**



PLANNING & BUILDING SERVICES

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

APPLICATION FORM

APPLICANT:

Name: T-Mobile West LLC by Agent c/o Crown Castle Inc, on behalf of Tihina Sintayehu
Phone: 206-336-3228
Mailing Address: 2000 CORPORATE DRIVE CANONSBURG, PA 15317
City: State/Zip: Email: tihina.sintayehu@crowncastle.com

PROPERTY OWNER:

Name: MCGUIRE FAMILY TRUST
Phone:
Mailing Address: 22501 BALD HILL ROAD FORT BRAGG, CA 95437
City: State/Zip: Email:

AGENT:

Name: Same as applicant
Phone:
Mailing Address:
City: State/Zip: Email:

ASSESSOR'S PARCEL NUMBER/S: 069-270-14-00

TYPE OF APPLICATION:

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

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

Agent Crown Castle Inc, Tihina Sintayehu 08/30/24

please see attached letter of authorization

Signature of Applicant/Agent

Date

Signature of Owner

Date





**SITE AND PROJECT DESCRIPTION QUESTIONNAIRE**

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

**THE PROJECT**

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

TOWER SCOPE OF WORK: •INSTALL (1) COMMSCOPE - USX6-11W MICROWAVE DISH •INSTALL (2) CERAGON - FIBEAIR IP-20A\_RFU-D-HP ODU •INSTALL (2) AMPHENOL - DUPLEX ARMOR I/O MW LINE •INSTALL (2) AMPHENOL - 2CX14AWG MW LINE •INSTALL (1) 2" INNERDUCT •INSTALL COMMSCOPE - RM-DM-6 WITH MODIFICATIONS PER MOUNT ANALYSIS BY TRYLON DATED 07/05/24

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2. Structures/Lot Coverage	NO. OF UNITS		SQUARE FOOTAGE		
	EXISTING	PROPOSED	EXISTING	PROPOSED	TOTAL
<input type="checkbox"/> Single Family <input type="checkbox"/> Mobile Home <input type="checkbox"/> Duplex <input type="checkbox"/> Multifamily <input type="checkbox"/> Other: <input checked="" type="checkbox"/> Other: Existing wirelss facitly			3,724 sq ft		3,724 sq ft
GRAND TOTAL (Equal to gross area of Parcel): <span style="margin-left: 100px;">3,724 sq ft</span>					

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

Estimated No. of Employees per shift:                     N/A                    

Estimated No. of shifts per day:                     N/A                    

Type of loading facilities proposed:                     N/A

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

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

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

**NO**       **YES** If yes, explain:

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

**NO**       **YES** If yes, explain:

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

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

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

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

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

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

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

NO  YES

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

NO  YES

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

NO  YES If yes, explain how:

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

NO  YES

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

NO  YES

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

Diking:  NO  YES

Filling:  NO  YES

Dredging:  NO  YES

Structures:  Open Coastal Waters  Wetlands  Estuaries  Lakes

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

Location of dredged material disposal site?: \_\_\_\_\_

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

16. Will there be any exterior lighting?

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

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

Electricity:  Utility Company (service exists to parcel)

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

On Site Generation – Specify:

Gas:  Utility Company/Tank

On Site Generation – Specify:

None

Telephone:  NO  YES

**18. What will be the method of sewage disposal?**

- Community Sewage System (specify supplier): \_\_\_\_\_
- Septic Tank
- Other (specify): No sewage on site

**19. What will be the domestic water source:**

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

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

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

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**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:**

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

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

- NO**       **YES**

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

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

- NO**       **YES**

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## CERTIFICATION AND SITE VIEW AUTHORIZATION

1. I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application, and all attached appendices and exhibits, is complete and correct. I understand that the failure to provide any requested information or any misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the County.
  
2. I hereby grant permission for County Planning and Building Services staff and hearing bodies to enter upon and site view the premises for which this application is made in order to obtain information necessary for the preparation of required reports and render its decision.

<i>Agent Crown Castle Inc. Tihtina Sintayehu</i> <hr style="border: 0; border-top: 1px solid black;"/> Owner/Authorized Agent	08/30/2024 <hr style="border: 0; border-top: 1px solid black;"/> Date
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**NOTE:** IF SIGNED BY AGENT, OWNER MUST SIGN BELOW.

AUTHORIZATION OF AGENT

I hereby authorize \_\_\_\_\_ Please see attached letter of authorization \_\_\_\_\_ to act as my representative and to bind me in all matters concerning this application.

<span style="color: red;">Please see attached letter of authorization</span> <hr style="border: 0; border-top: 1px solid black;"/> Owner	08/30/2024 <hr style="border: 0; border-top: 1px solid black;"/> Date
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### MAIL DIRECTION

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

<b>Name</b>  Tihtina Sintayehu Agent c/o Crown Castle Inc, on behalf of T-Mobile West LLC	<b>Name</b>  _____	<b>Name</b>  _____
<b>Mailing Address</b>  2000 CORPORATE DRIVE CANONSBURG, PA 15317	<b>Mailing Address</b>  _____	<b>Mailing Address</b>  _____

COMPLETE FOR PROJECTS  
LOCATED IN THE COASTAL  
ZONE ONLY

## DECLARATION OF POSTING

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

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

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

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(Description of development)

Located at:

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(Address of development and Assessor's Parcel Number)

The public notice was posted at:

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

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Owner/Authorized Representative

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Date

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

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



COMPLETE FOR PROJECTS  
LOCATED IN THE COASTAL  
ZONE ONLY

## NOTICE OF PENDING PERMIT

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

PROPOSED DEVELOPMENT: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LOCATION: \_\_\_\_\_  
\_\_\_\_\_

APPLICANT: \_\_\_\_\_  
\_\_\_\_\_

ASSESSOR'S PARCEL NUMBER: \_\_\_\_\_  
\_\_\_\_\_

DATE NOTICE POSTED: \_\_\_\_\_

**FURTHER INFORMATION IS AVAILABLE AT:**

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



## Indemnification And Hold Harmless

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

### Indemnification Agreement

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

08/30/24

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

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Date

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Applicant



# Coastal Zone Development

Complete for projects located in the coastal zone only

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

APN Lastname, Firstname Street Address City, State Zip		



CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED--STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS--STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED--STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (I.E., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 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).

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: T-MOBILE TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS: #4 BARS AND SMALLER.....40 ksi #5 BARS AND LARGER.....60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3" CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BARS AND LARGER.....2" #5 BARS AND SMALLER.....1-1/2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLAB AND WALLS.....3/4" BEAMS AND COLUMNS.....1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

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

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR CODE. Rows include 120/240V, 10; 120/208V, 3Ø; 277/480V, 3Ø; and DC VOLTAGE.

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

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

ABBREVIATIONS:

- ANT ANTENNA
(E) EXISTING
FIF FACILITY INTERFACE FRAME
GEN GENERATOR
GPS GLOBAL POSITIONING SYSTEM
GSM GLOBAL SYSTEM FOR MOBILE
LTE LONG TERM EVOLUTION
MGB MASTER GROUND BAR
MW MICROWAVE
(N) NEW
NEC NATIONAL ELECTRIC CODE
(P) PROPOSED
PP POWER PLANT
QTY QUANTITY
RECT RECTIFIER
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



T-MOBILE SITE NUMBER: SF40870D

BU #: 814771 FORT BRAGG (REVISED)

22501 BALD HILL RD FT. BRAGG, CA 95437

EXISTING 51'-0" MONOPOLE

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Row 0: 07/30/24, CDM, CONSTRUCTION, MB. Row 1: 08/15/24, CDM, CONSTRUCTION, MB.

Professional Engineer seal for Maham Barimani, License No. C 83084, State of California. Includes text: 'DocuSigned by: Maham Barimani' and '8/16/2024 | 10:18:52 AM CDT'.

8/16/2024 | 10:18:52 AM CDT

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

SHEET NUMBER: T-2 REVISION: 1



T-MOBILE SITE NUMBER:  
**SF40870D**

BU #: 814771  
**FORT BRAGG (REVISED)**

22501 BALD HILL RD  
FT. BRAGG, CA 95437

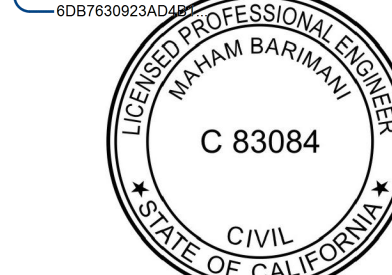
EXISTING 51'-0"  
MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/30/24	CDM	CONSTRUCTION	MB
1	08/15/24	CDM	CONSTRUCTION	MB

DocuSigned by:

Maham Barimani



8/16/2024 | 10:18:52 AM CDT

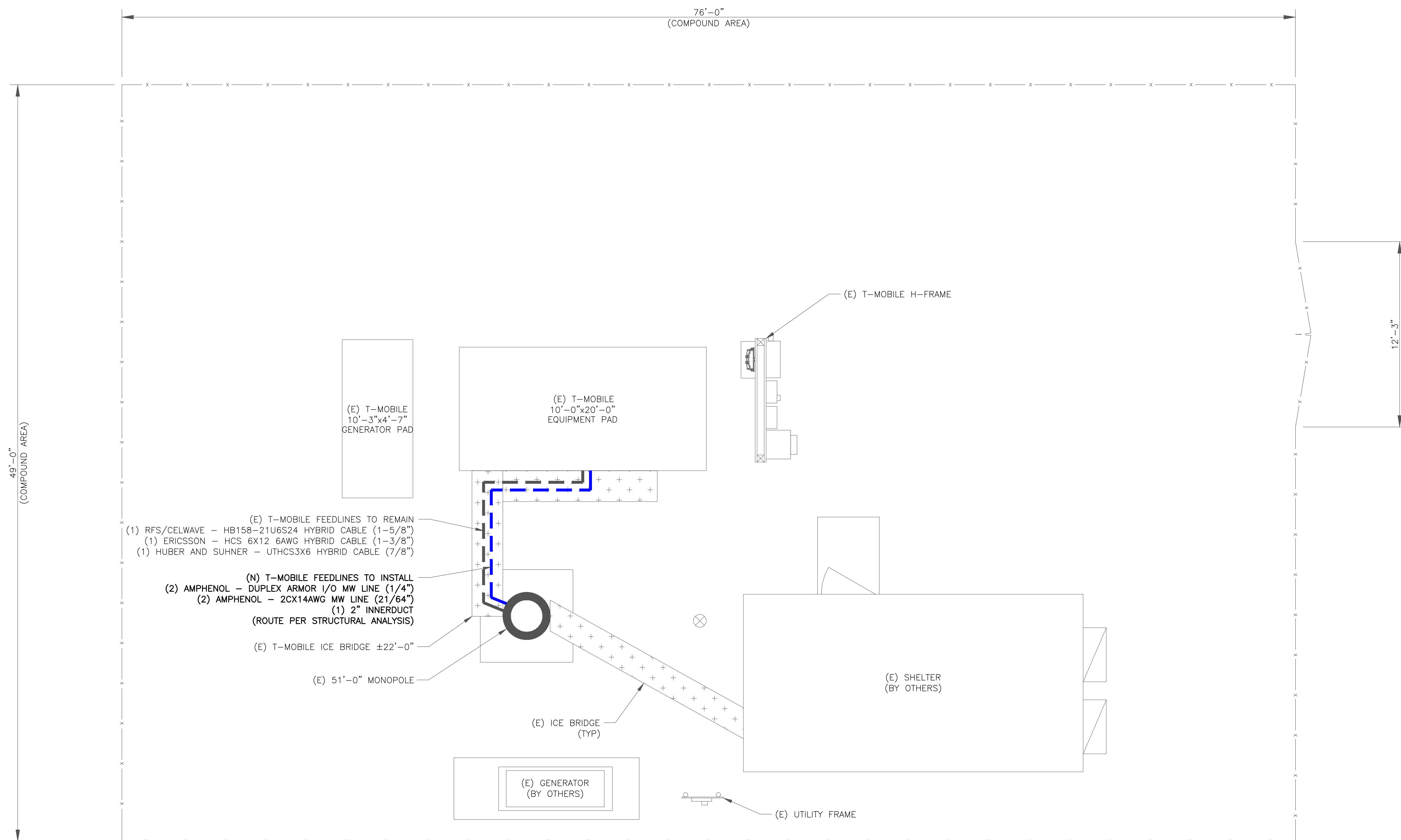
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**C-1**

REVISION:

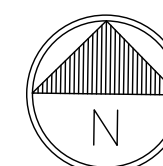
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1

SITE PLAN

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





EQUIPMENT LEGEND:

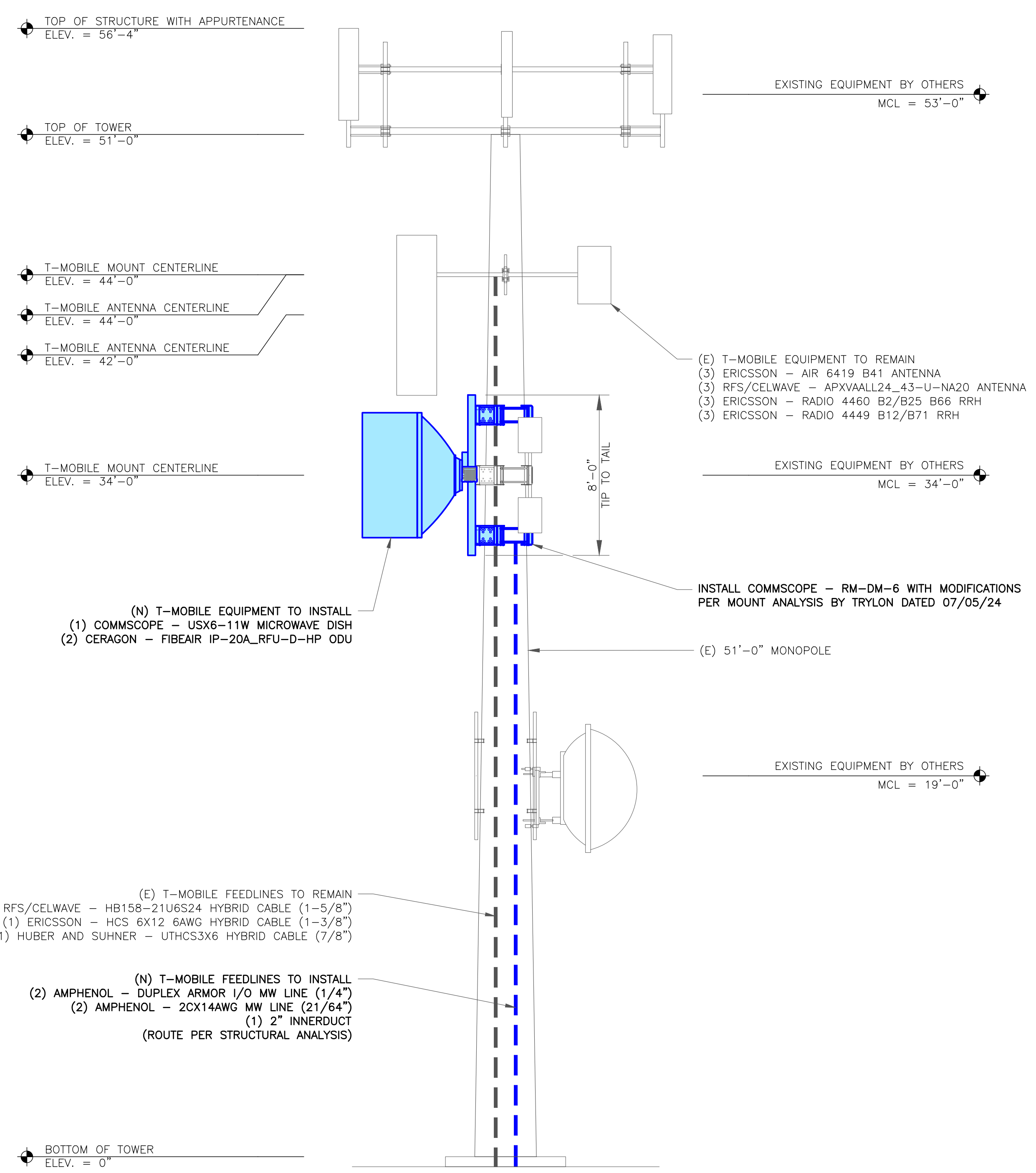
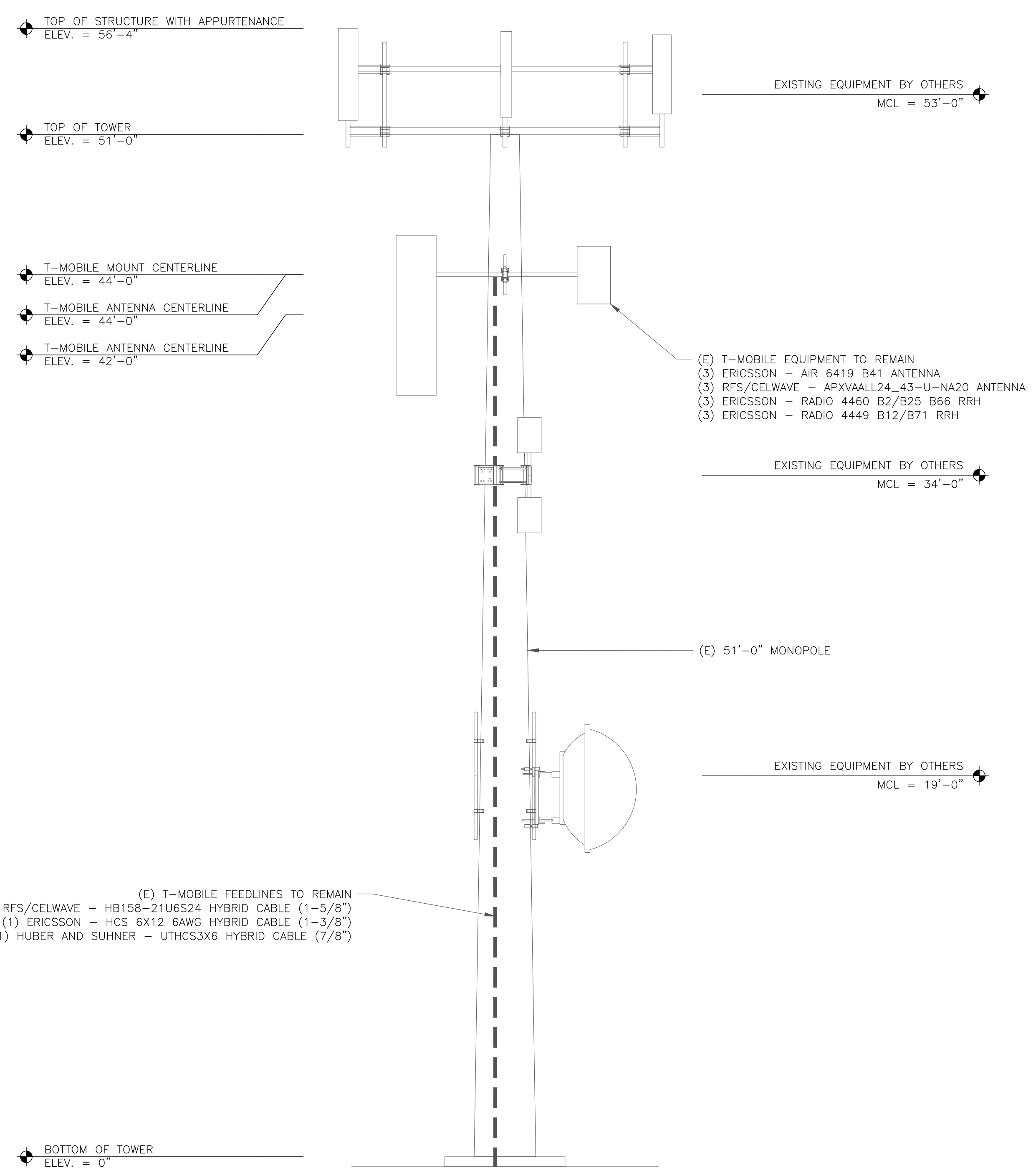
- EXISTING TO REMAIN
- TO BE RELOCATED/REMOVED

T-MOBILE EQUIPMENT

- (E) ANTENNA CL: 44'-0" & 42'-0"
- (E) MOUNT CL: 44'-0"
- NEW MW DISH CL: 34'-0"
- NEW MOUNT CL: 34'-0"

EQUIPMENT LEGEND:

- EXISTING
- NEW/RELOCATED



T-MOBILE SITE NUMBER:  
**SF40870D**

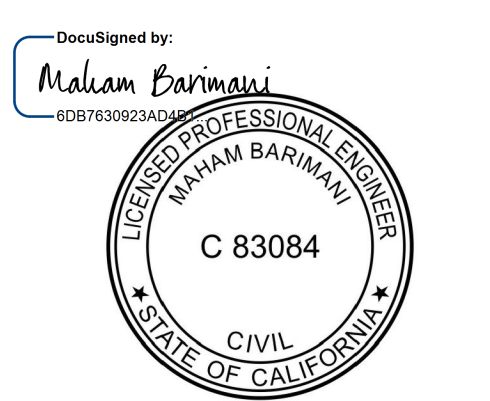
BU #: 814771  
**FORT BRAGG (REVISED)**

22501 BALD HILL RD  
FT. BRAGG, CA 95437

EXISTING 51'-0"  
MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	08/15/24	CDM	CONSTRUCTION	MB

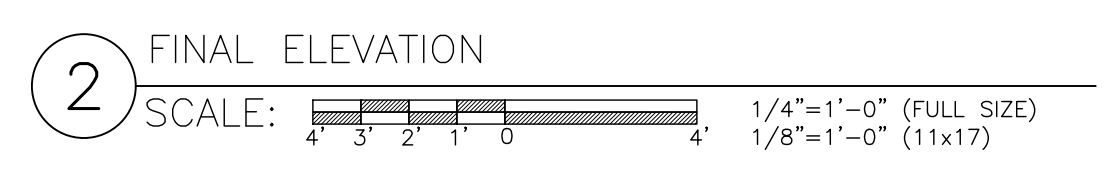
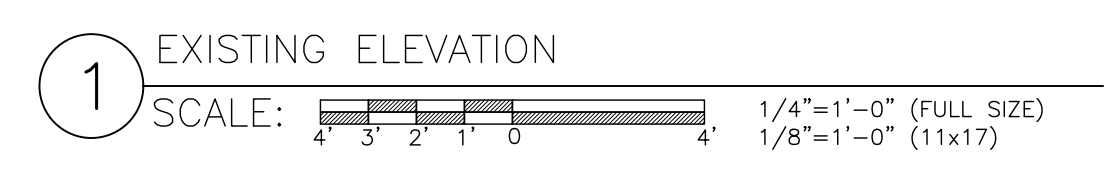


8/16/2024 | 10:18:52 AM CDT

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TO ALTER THIS DOCUMENT.

**INSTALLER NOTE:**  
NO PROPOSED LOADING TO BE ADDED  
UNTIL MOUNT MODIFICATIONS ARE  
INSTALLED PER MOUNT ANALYSIS BY  
TRYLON DATED 07/05/24.

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



SHEET NUMBER:  
**C-2**

REVISION:  
**1**

**EQUIPMENT LEGEND:**

EXISTING TO REMAIN

TO BE RELOCATED/REMOVED

**INSTALLER NOTE:**

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

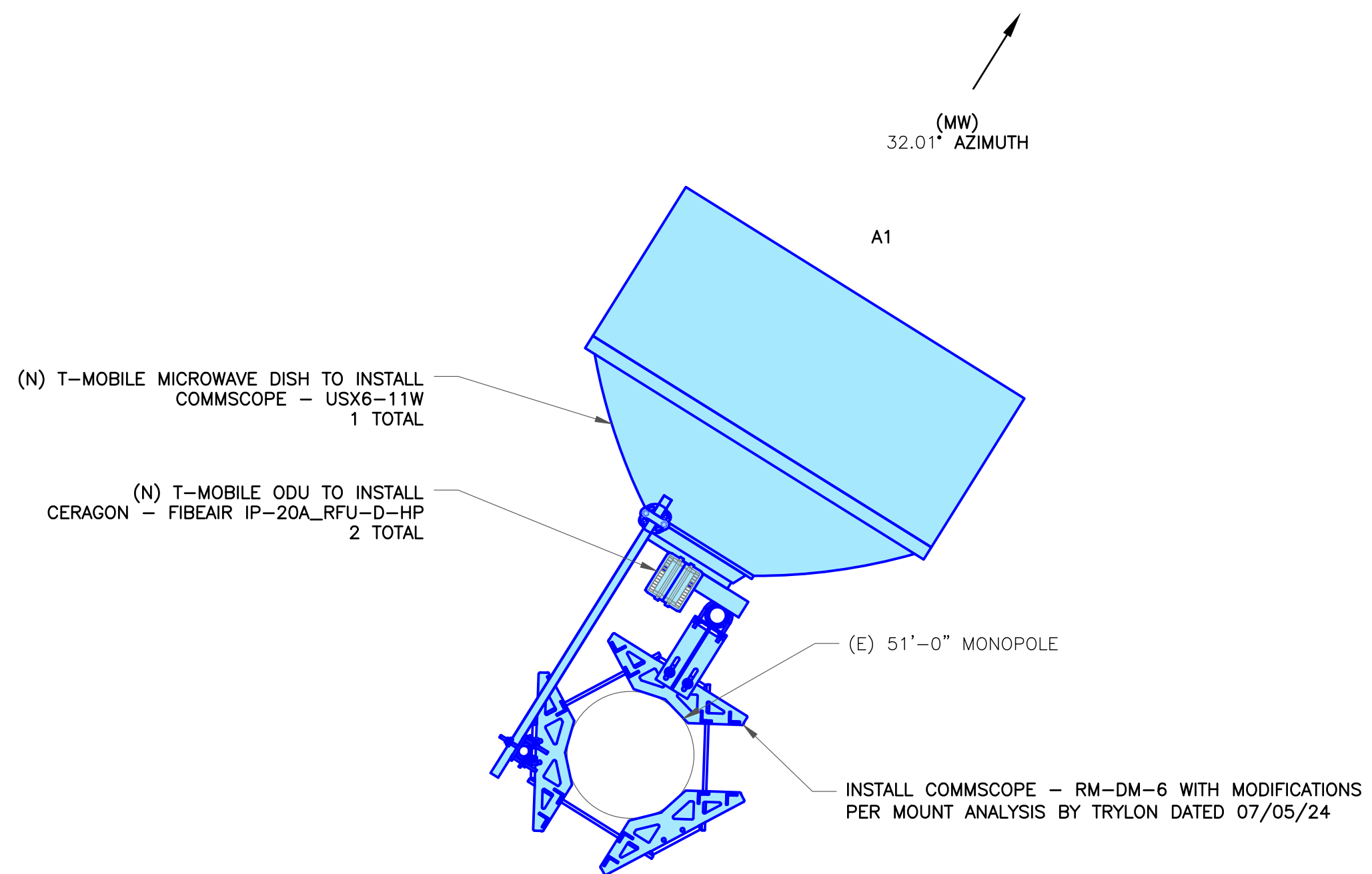
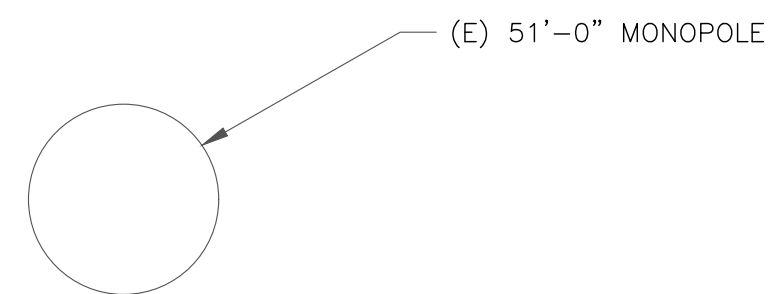
**INSTALLER NOTE:**

NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT ANALYSIS BY TRYLON DATED 07/05/24.

**EQUIPMENT LEGEND:**

EXISTING

NEW/RELOCATED



T-MOBILE SITE NUMBER:  
**SF40870D**

BU #: 814771  
**FORT BRAGG (REVISED)**

22501 BALD HILL RD  
FT. BRAGG, CA 95437

EXISTING 51'-0"  
MONOPOLE

**ISSUED FOR:**

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1	08/15/24	CDM	CONSTRUCTION	MB

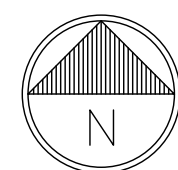
DocuSigned by:  
*Maham Barimani*  
C 83084  
LICENSED PROFESSIONAL ENGINEER  
MAHAM BARIMANI  
CIVIL  
STATE OF CALIFORNIA  
8/16/2024 | 10:18:52 AM CDT

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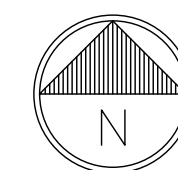
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**C-3**

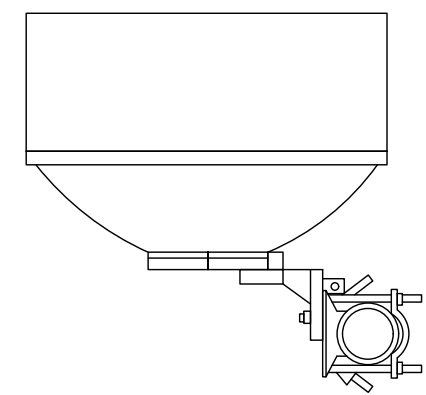
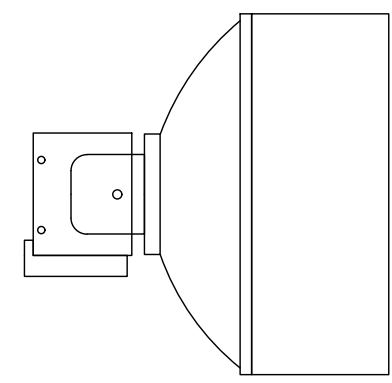
REVISION:  
**1**

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



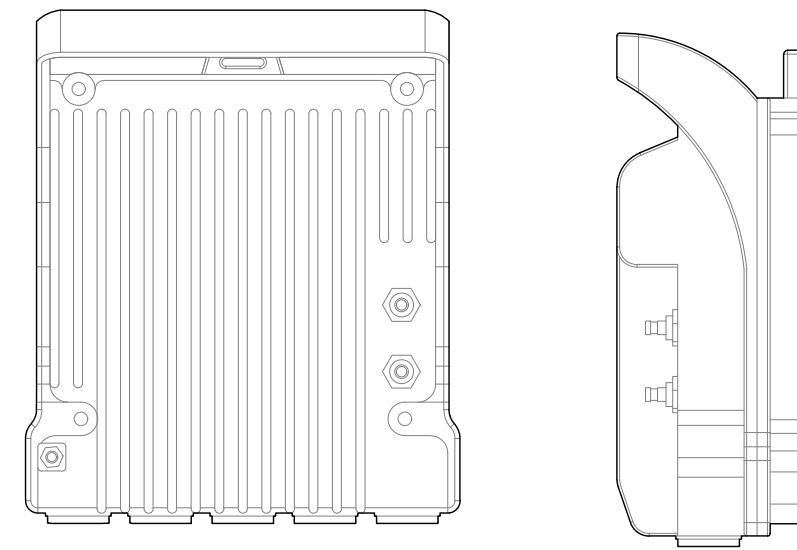
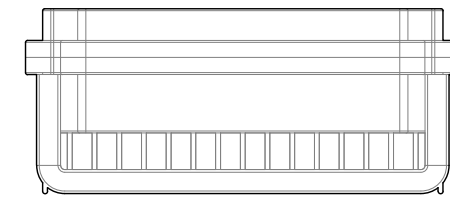
2 FINAL ANTENNA PLAN  
SCALE: 1/2"=1'-0" (FULL SIZE)  
1/4"=1'-0" (11x17)





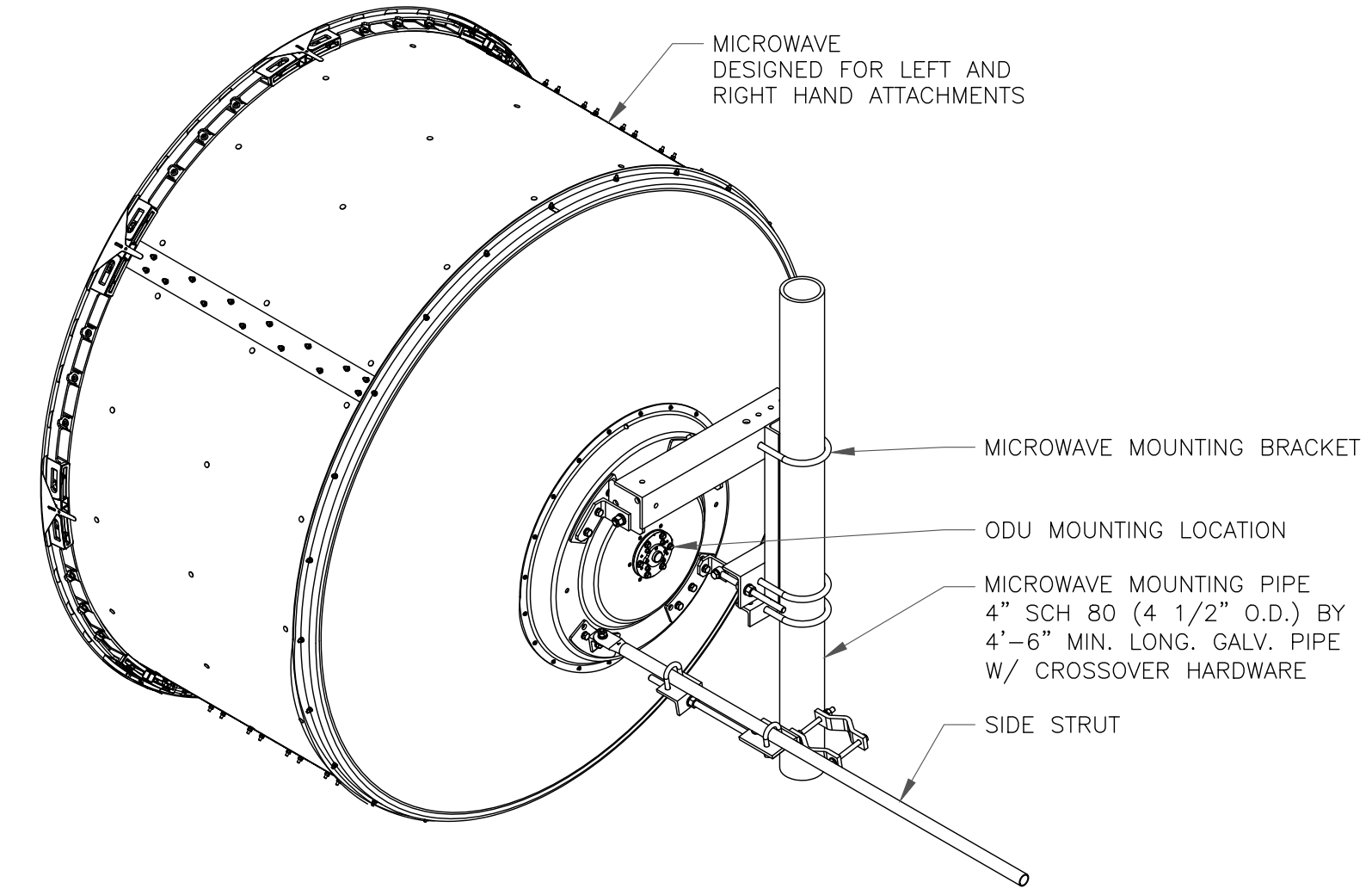
MICROWAVE SPECS	
MANUFACTURER	COMMSCOPE
MODEL #	USX6-11W
ØxD	74.8"Ø x 59.8"
WEIGHT	198.4 LBS

1 COMMSCOPE – USX6-11W  
SCALE: NOT TO SCALE



ODU SPECS	
MANUFACTURER	CERAGON
MODEL #	FIBEAIR IP-20A RFU-D-HP
HxWxD	12.6" x 11.3" x 4.2"
WEIGHT	26.5 LBS

2 CERAGON – FIBEAIR IP-20A RFU-D-HP  
SCALE: NOT TO SCALE



3 MICROWAVE & ODU MOUNTING DETAIL  
SCALE: NOT TO SCALE

**T Mobile**

**CROWN CASTLE**

T-MOBILE SITE NUMBER:  
**SF40870D**

BU #: 814771  
**FORT BRAGG (REVISED)**

22501 BALD HILL RD  
FT. BRAGG, CA 95437

EXISTING 51'-0"  
MONOPOLE

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	07/30/24	CDM	CONSTRUCTION	MB
1	08/15/24	CDM	CONSTRUCTION	MB

DocuSigned by:

Maham Barimani  
8DB7630923A25E



8/16/2024 | 10:18:52 AM CDT

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SHEET NUMBER:

**C-4**

REVISION:

**1**

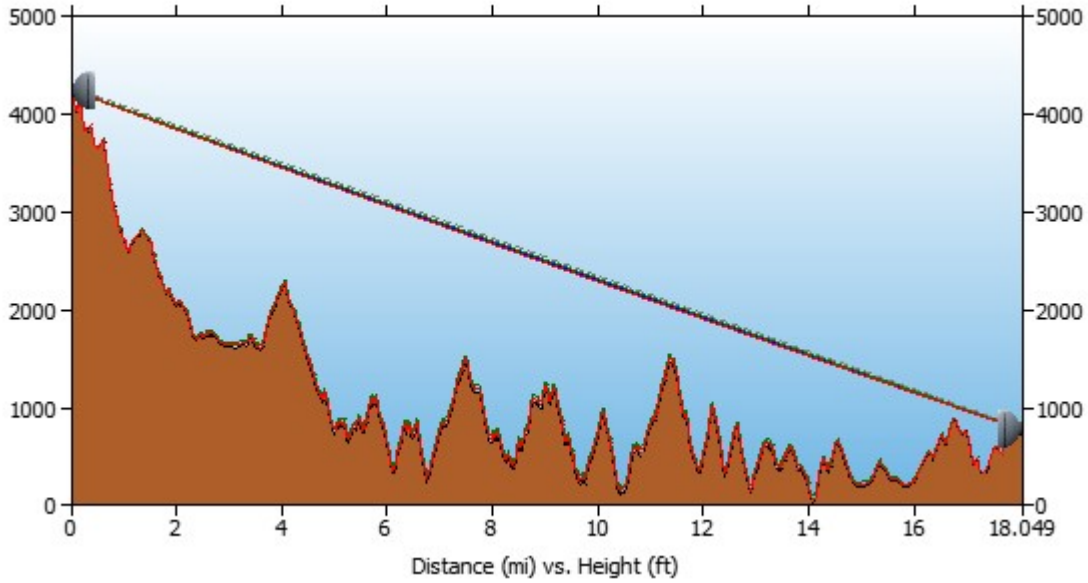
4 NOT USED  
SCALE: NOT TO SCALE

5 NOT USED  
SCALE: NOT TO SCALE

6 NOT USED  
SCALE: NOT TO SCALE

# iQ.link — Link Budget Report

<b>Date Printed:</b> 06-MAR-2024	<b>Link ID:</b> 4007919	<b>Region:</b> West
<b>Create Date:</b> 25-SEP-2023	<b>Link Name:</b> SF40872A_SF40870D	<b>Created By:</b> NCuenco1



Path length (18.05 mi)

<b>SF40872A</b>	
Latitude:	39-41-12.2 N
Longitude:	123-34-46.1 W
Azimuth:	212.13 Deg
Elevation:	4212.60 ft
Antenna CL:	30.00 ft AGL

<b>Frequency (GHz) = 11.00 GHz</b>	
K1:	1.33
%F1:	0.60
K2:	0.67
%F2:	0.30
K3:	1.33
%F3:	1.00

<b>SF40870D</b>	
Latitude:	39-27-54.1 N
Longitude:	123-45-32.3 W
Azimuth:	32.01 Deg
Elevation:	734.91 ft
Antenna CL:	34.00 ft AGL

Transmission details		
<b>SITE ID:</b>	SF40872A	SF40870D
<b>CLUSTER_ID:</b>	SF40873A	[CLUSTER_ID_B]
<b>CALL_SIGN:</b>	WRPP509	WRZQ374
<b>ASR #:</b>		1305586
<b>AAV_CONTRACT_ID:</b>	TMW01	ATT224
<b>AAV_CONTRACT_STATUS:</b>	Selected	Selected
<b>Ethernet Installed:</b>	Ethernet	Ethernet
<b>Latitude:</b>	39-41-12.2 N	39-27-54.1 N
<b>Longitude:</b>	123-34-46.1 W	123-45-32.3 W
<b>Azimuth (deg):</b>	212.13 Deg	32.01 Deg
<b>Vertical angle (deg):</b>	2.19 Down	1.99 Up
<b>Elevation:</b>	4212.60 ft	734.91 ft
<b>Antenna model:</b>	USX6-11W	USX6-11W
<b>Antenna manufacturer:</b>	ANDREW CORPORATION	ANDREW CORPORATION
<b>Antenna Id:</b>	291	291
<b>Antenna gain (dBi):</b>	43.60 dBi	43.60 dBi
<b>Antenna diameter:</b>	5.91 ft	5.91 ft
<b>Antenna CL:</b>	30.00 ft AGL	34.00 ft AGL
<b>Diversity Antenna model:</b>		
<b>Diversity Antenna manufacturer:</b>		
<b>Diversity Antenna Id:</b>		
<b>Diversity Antenna gain (dBi):</b>		
<b>Diversity Antenna diameter:</b>		
<b>Diversity Antenna CL:</b>		
<b>Branch Loss Tx/Rx (dB):</b>	5.10/5.10	5.10/5.10
<b>Attenuator Common/Tx/Rx (dB):</b>	0.00 9.00 0.00	0.00 9.00 0.00
<b>Waveguide #1 Model, Len, Loss(dB):</b>		
<b>Waveguide #2 Model, Len, Loss(dB):</b>		
<b>Waveguide #3 Model, Len, Loss(dB):</b>		
<b>Total Waveguide Loss (dB):</b>		
<b>Other Losses (dB):</b>	0.00	0.00
<b>Frequency (GHz):</b>	11.00 GHz	
<b>Path length:</b>	18.05 mi	
<b>Free space loss (dB):</b>	142.54 dB	
<b>Atmospheric absorption loss (dB):</b>	0.42 dB	
<b>Obstruction Loss (dB):</b>	0.00 dB (oLOS)	
<b>Field margin (dB):</b>	1.00 dB	
<b>Net path loss (dB):</b>	70.86 dB	70.86 dB
<b>Configuration:</b>	4+0/DP/RM	4+0/DP/RM
<b>Radio model:</b>	IP20D-HP11-80X-A_4501	IP20D-HP11-80X-A_4501
<b>Radio manufacturer:</b>	Ceragon Networks	Ceragon Networks

<b>Radio Id:</b>	754	754
<b>Frequency Plan: Frequency (MHz):</b>	Low: 10835.000 /10835.000 /10915.000 /10915.000	High: 11325.000 /11325.000 /11405.000 /11405.000
<b>Polarization:</b>	H/V/H/V	H/V/H/V
<b>Emission designator:</b>	80M0D7W	80M0D7W
<b>Climatic factor:</b>	1.00	
<b>Terrain roughness factor:</b>	1.00	
<b>Average annual temperature:</b>	50.00 degF	
<b>Design Path Polarity:</b>	Vertical	
<b>Rain region:</b>	Eureka, California	
<b>0.01% Rain Rate:</b>	23.3 mm/hr	
<b>Passive Repeaters</b>		
<b>Antenna model:</b>		
<b>Antenna manufacturer:</b>		
<b>Antenna height:</b>		

Modulation / Throughput	Tx Power A/B (dBm)		EIRP A/B (dBm)		Receive Signal A/B (dBm)		Composite Fade Margin A/B (dB)		Radio Threshold/ ACM Drop Level A/B (dBm)	
BPSK 67.00 Mbps	35.00	35.00	64.50	64.50	-39.96	-39.96	45.34	45.34	-86.30	-86.30
4QAM 136.00 Mbps	35.00	35.00	64.50	64.50	-39.96	-39.96	39.54	39.54	-80.50	-80.50
8QAM 195.00 Mbps	35.00	35.00	64.50	64.50	-39.96	-39.96	35.84	35.84	-76.80	-76.80
<b>16QAM 279.00 Mbps</b>	<b>35.00</b>	<b>35.00</b>	<b>64.50</b>	<b>64.50</b>	<b>-39.96</b>	<b>-39.96</b>	<b>32.84</b>	<b>32.84</b>	<b>-73.80</b>	<b>-73.80</b>
32QAM 368.00 Mbps	35.00	35.00	64.50	64.50	-39.96	-39.96	29.44	29.44	-70.40	-70.40
64QAM 451.00 Mbps	34.00	34.00	63.50	63.50	-40.96	-40.96	25.54	25.54	-67.50	-67.50
128QAM 533.00 Mbps	33.00	33.00	62.50	62.50	-41.96	-41.96	21.54	21.54	-64.50	-64.50
256QAM 614.00 Mbps	32.00	32.00	61.50	61.50	-42.96	-42.96	17.84	17.84	-61.80	-61.80
512QAM 675.00 Mbps	32.00	32.00	61.50	61.50	-42.96	-42.96	15.14	15.14	-59.10	-59.10
1KLQAM 735.00 Mbps	31.00	31.00	60.50	60.50	-43.96	-43.96	10.94	10.94	-55.90	-55.90
1KHQAM 780.00 Mbps	31.00	31.00	60.50	60.50	-43.96	-43.96	10.54	10.54	-55.50	-55.50
2KQAM 826.00 Mbps	31.00	31.00	60.50	60.50	-43.96	-43.96	7.64	7.64	-52.60	-52.60

Modulation/ Throughput	Worst Month Multipath		Worst Month Rain		Annual Multipath		Annual Rain		Total Annual		Total Active in Mode	
	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)	(100-%)	(s)
BPSK 67.00 Mbps	99.99905 4	24.87	99.99992 7	1.92	99.99976 3	74.60	99.99999 5	1.66	99.99975 8	76.26	0.000672	212.01
4QAM 136.00 Mbps	99.99640 2	94.55	99.99982 1	4.69	99.99910 1	283.64	99.99998 5	4.63	99.99908 6	288.27	0.001223	385.60
8QAM 195.00 Mbps	99.99156 6	221.64	99.99968 3	8.33	99.99789 2	664.91	99.99997 2	8.95	99.99786 3	673.86	0.002119	668.23
<b>16QAM 279.00 Mbps</b>	<b>99.98317 3</b>	<b>442.22</b>	<b>99.99949 2</b>	<b>13.36</b>	<b>99.99579 3</b>	<b>1326.67</b>	<b>99.99995 1</b>	<b>15.42</b>	<b>99.99574 4</b>	<b>1342.10</b>	<b>0.005040</b>	<b>1589.43</b>
32QAM 368.00 Mbps	99.96318 6	967.48	99.99911 7	23.20	99.99079 6	2902.44	99.99990 8	29.08	99.99070 4	2931.52	0.013491	4254.59

64QAM 451.00 Mbps	99.90963 2	2374.88	99.99830 8	44.47	99.97740 8	7124.65	99.99980 5	61.46	99.97721 3	7186.12	0.034404	10849.51
128QAM 533.00 Mbps	99.77300 5	5965.44	99.99655 3	90.59	99.94325 1	17896.32	99.99955 8	139.31	99.94280 9	18035.63	0.076870	24241.68
256QAM 614.00 Mbps	99.46787 1	13984.34	99.99281 4	188.86	99.86696 8	41953.03	99.99897 2	324.27	99.86594 0	42277.30	0.115770	36509.22
512QAM 675.00 Mbps	99.00912 9	26040.09	99.98655 9	353.23	99.75228 2	78120.28	99.99788 7	666.24	99.75017 0	78786.52	0.410254	129377.6 4
1KLQAM 735.00 Mbps	97.39374 5	68492.38	99.95480 6	1187.70	99.34843 6	205477.1 3	99.99147 9	2687.03	99.33991 6	208164.1 6	0.064372	20300.42
1KHQAM 780.00 Mbps	97.14229 8	75100.42	99.94791 6	1368.78	99.28557 4	225301.2 6	99.98996 9	3163.31	99.27554 4	228464.5 8	0.705936	222624.0 0
2KQAM 826.00 Mbps	94.42792 2	146434.2 2	99.83653 6	4295.84	98.60698 0	439302.6 5	99.96262 7	11785.93	98.56960 7	451088.5 8	98.56960 7	3108491 1.42

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

Date: **July 5, 2024**



Trylon  
1825 W. Walnut Hill Lane,  
Suite 302  
Irving, TX 75038  
214-930-1730

**Subject:** **Mount Analysis - Conditional Passing Report**

**Carrier Designation:** **T-Mobile Equipment Change-Out**  
**Carrier Site Number:** SF40870D  
**Carrier Site Name:** Crown Bald Hill

**Crown Castle Designation:** **BU Number:** 814771  
**Site Name:** Fort Bragg (Revised)  
**JDE Job Number:** 2115303  
**Order Number:** 670425 Rev. 0

**Engineering Firm Designation:** **Trylon Report Designation:** 241044

**Site Data:** **22501 Bald Hill Rd, Ft. Bragg, Mendocino County, CA, 95437**  
**Latitude 39°27'54.00" Longitude -123°45'32.30"**

**Structure Information:** **Tower Height & Type:** **51.0 ft Monopole**  
**Mount Elevation:** **34.0 ft**  
**Mount Width & Type:** **6.0 ft Pipe Mount**

Trylon is pleased to submit this “**Mount Analysis - Conditional Passing Report**” to determine the structural integrity of T-Mobile’s antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount stress level. Based on our analysis we have determined the mount stress level to be:

**Pipe Mount** **Sufficient\***  
**\*Sufficient upon completion of the changes listed in the ‘Recommendations’ section of this report.**

This analysis has been performed in accordance with the 2022 California Building Code based upon an ultimate 3-second gust wind speed 92 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Marius Balan

Respectfully Submitted by:  
Cliff Abernathy, P.E.





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Supplemental Drawings

**1) INTRODUCTION**

This is a proposed 1 sector 6.0 ft Pipe Mount, designed by CommScope.

**2) ANALYSIS CRITERIA**

**Building Code:** 2021 IBC / 2022 CBC  
**TIA-222 Revision:** TIA-222-H  
**Risk Category:** II  
**Ultimate Wind Speed:** 92 mph  
**Exposure Category:** C  
**Topographic Factor at Base:** 2.657  
**Topographic Factor at Mount:** 2.402  
**Seismic S<sub>s</sub>:** 1.5  
**Seismic S<sub>1</sub>:** 0.6  
**Live Loading Wind Speed:** 30 mph

**Table 1 - Proposed Equipment Configuration**

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
34.0	34.0	1	CommScope	USX6-11W	6.0 ft Pipe Mount [CommScope, RM-DM-6]
		2	Ceragon	FIBEAIR IP-20A_RFU-D	

**3) ANALYSIS PROCEDURE**

**Table 2 - Documents Provided**

Document	Remarks	Reference	Source
Crown Application	T-Mobile Application	670425. Rev. 0	CCI Sites
Mount Manufacturer Drawings	CommScope	RM-DM-6	Trylon

**3.1) Analysis Method**

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed, using Microsoft Excel, by Trylon was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis* (Revision E).

**3.2) Assumptions**

- 1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer’s specifications.
- 2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
- 5) Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
- 6) Steel grades have been assumed as follows, unless noted otherwise:
 

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM A500 (GR B-46)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Tylon should be notified to determine the effect on the structural integrity of the antenna mounting system.

**4) ANALYSIS RESULTS**

**Table 3(a) – Mount Component Stresses vs. Capacity (Pipe Mount, Alpha Sector)**

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1, 2, 3, 4	Mount Pipe(s)	M9A	34.0	13.2	Pass
	Tieback(s)	M11		1.4	Pass
	Mount Connection(s)	-		28.0	Pass
<b>Structure Rating (max from all components) =</b>					<b>28.0%</b>

Notes:

- 1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
- 2) See additional documentation in "Appendix D – Additional Calculations" for detailed mount connection calculations.
- 3) Rating per TIA-222-H, Section 15.5

**4.1) Recommendations**

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the proposed mount listed below must be installed.

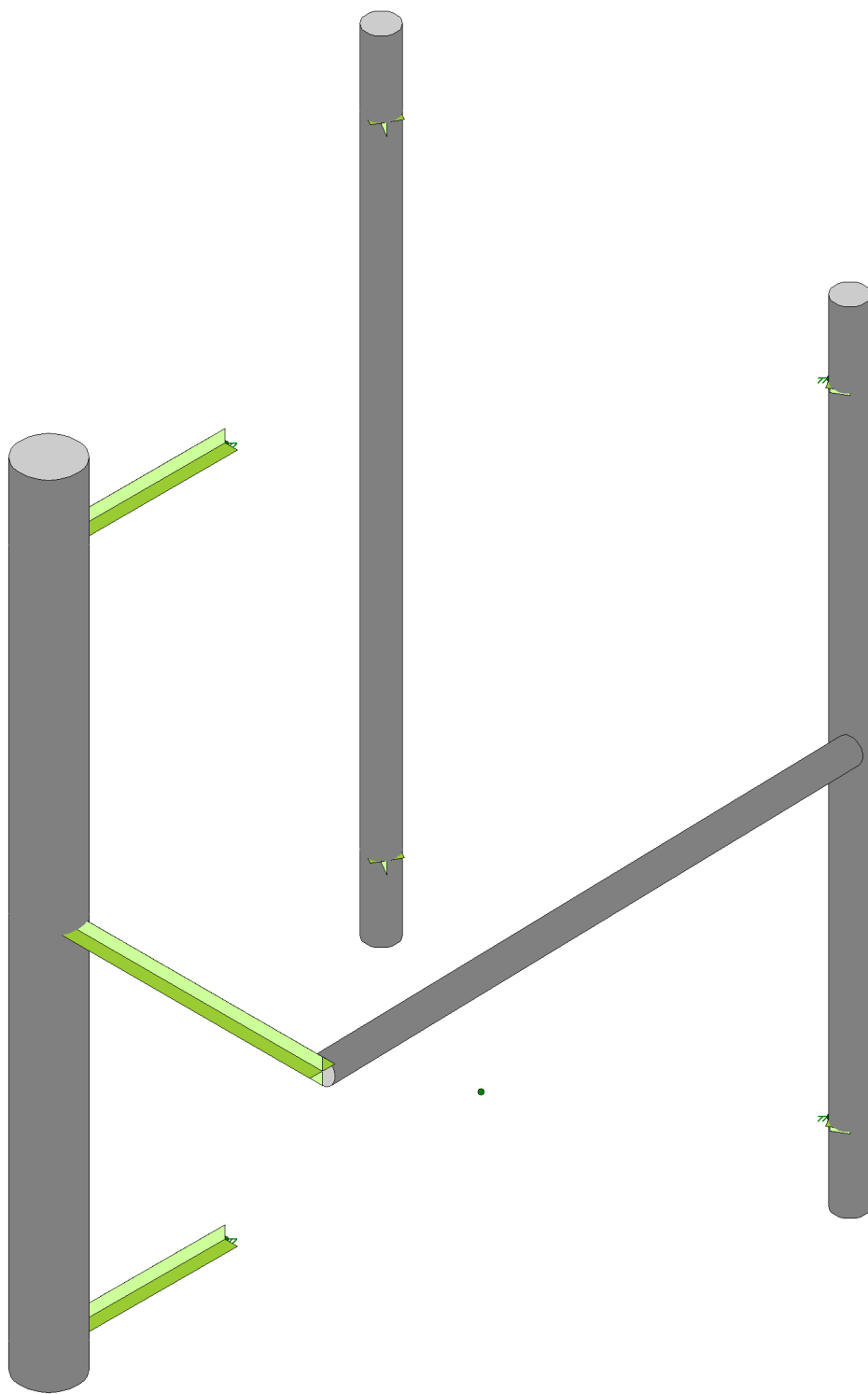
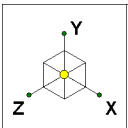
1. (1) CommScope, RM-DM-6.
2. (1) 1.5" dia. pipe, 4'-6" long, attached to vertical pipe @ mount with (1) Commscope CC-100 crossover clamp.

No structural modifications are required at this time, provided that the above-listed changes are implemented.

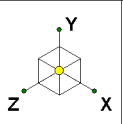
*6.0 ft Pipe Mount Mount Analysis - Conditional Passing  
Order 670425, Revision 0*

*July 5, 2024  
CCI BU No 814771  
Page 5*

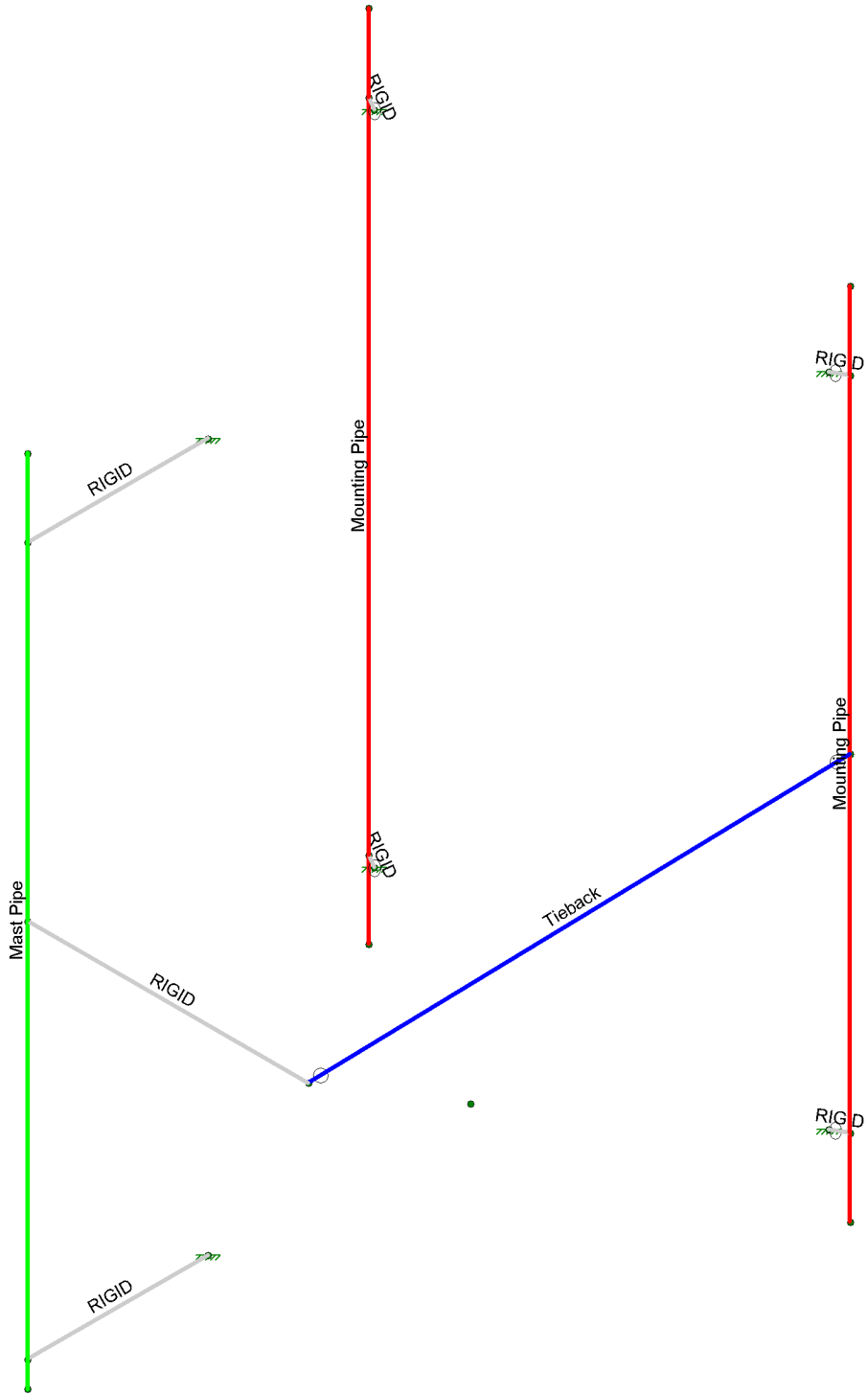
**APPENDIX A**  
**WIRE FRAME AND RENDERED MODELS**

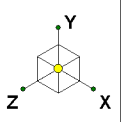




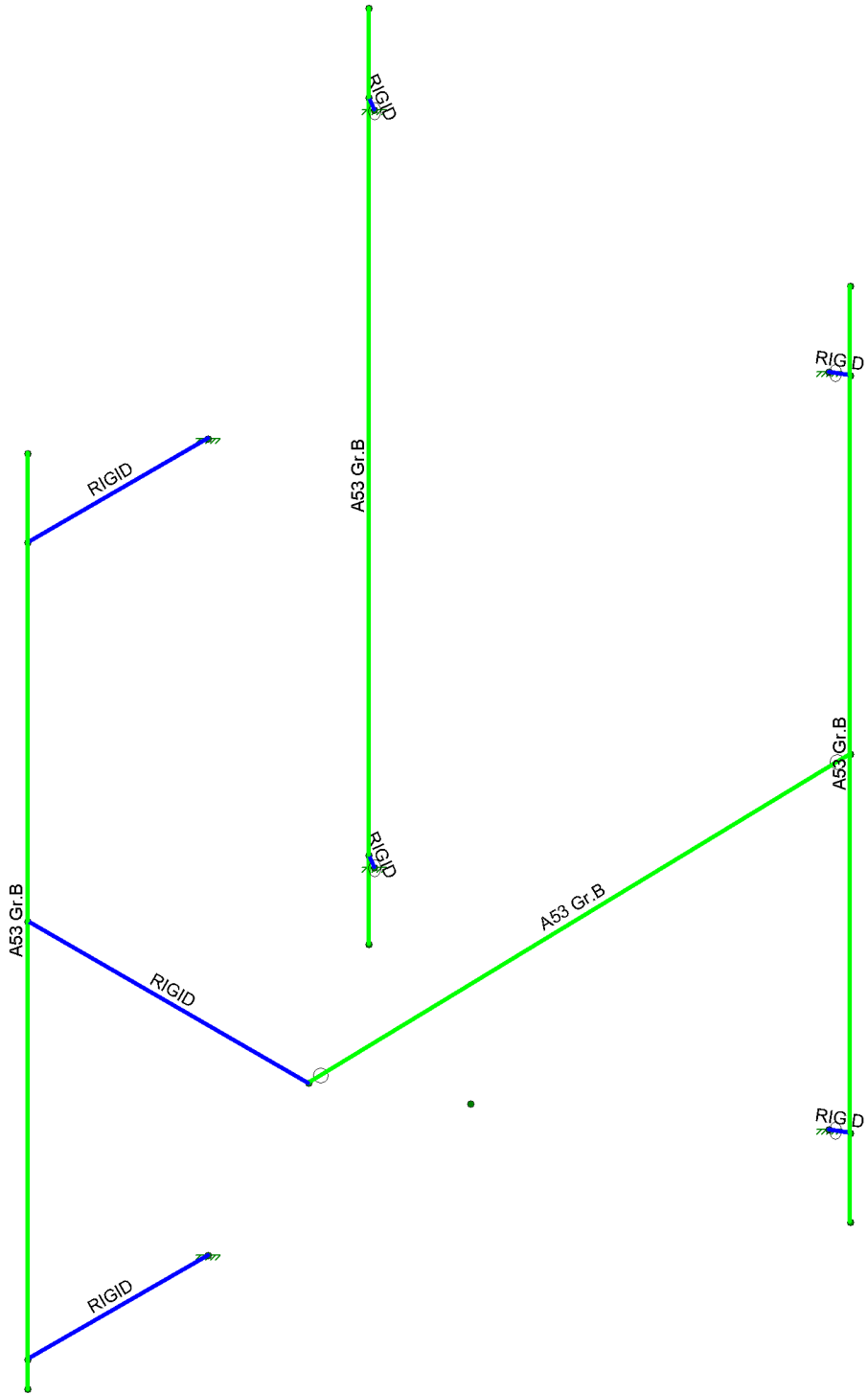


Section Sets	
Blue line	Tieback
Green line	Mast Pipe
Red line	Mounting Pipe
Grey line	RIGID

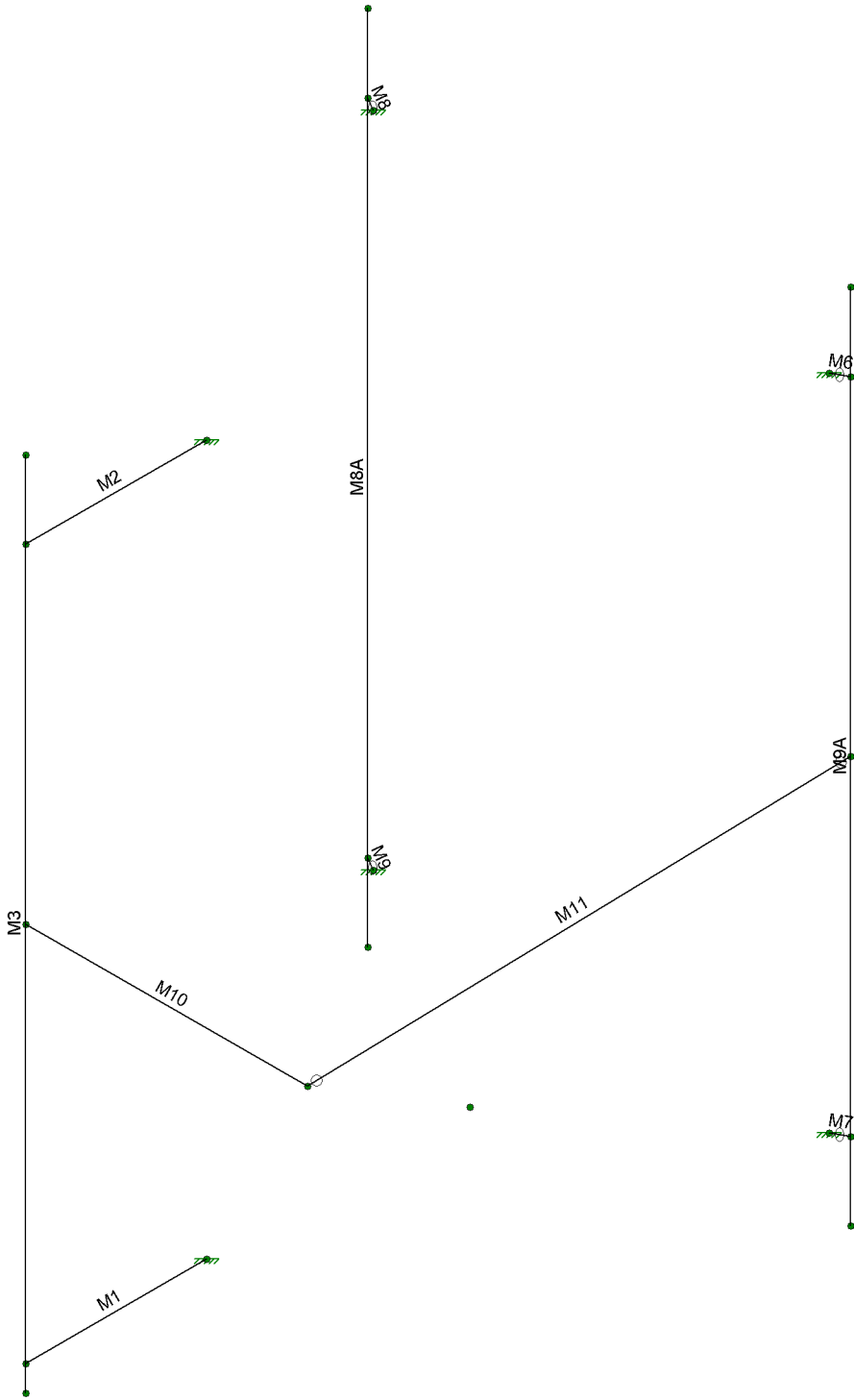
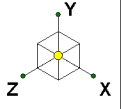


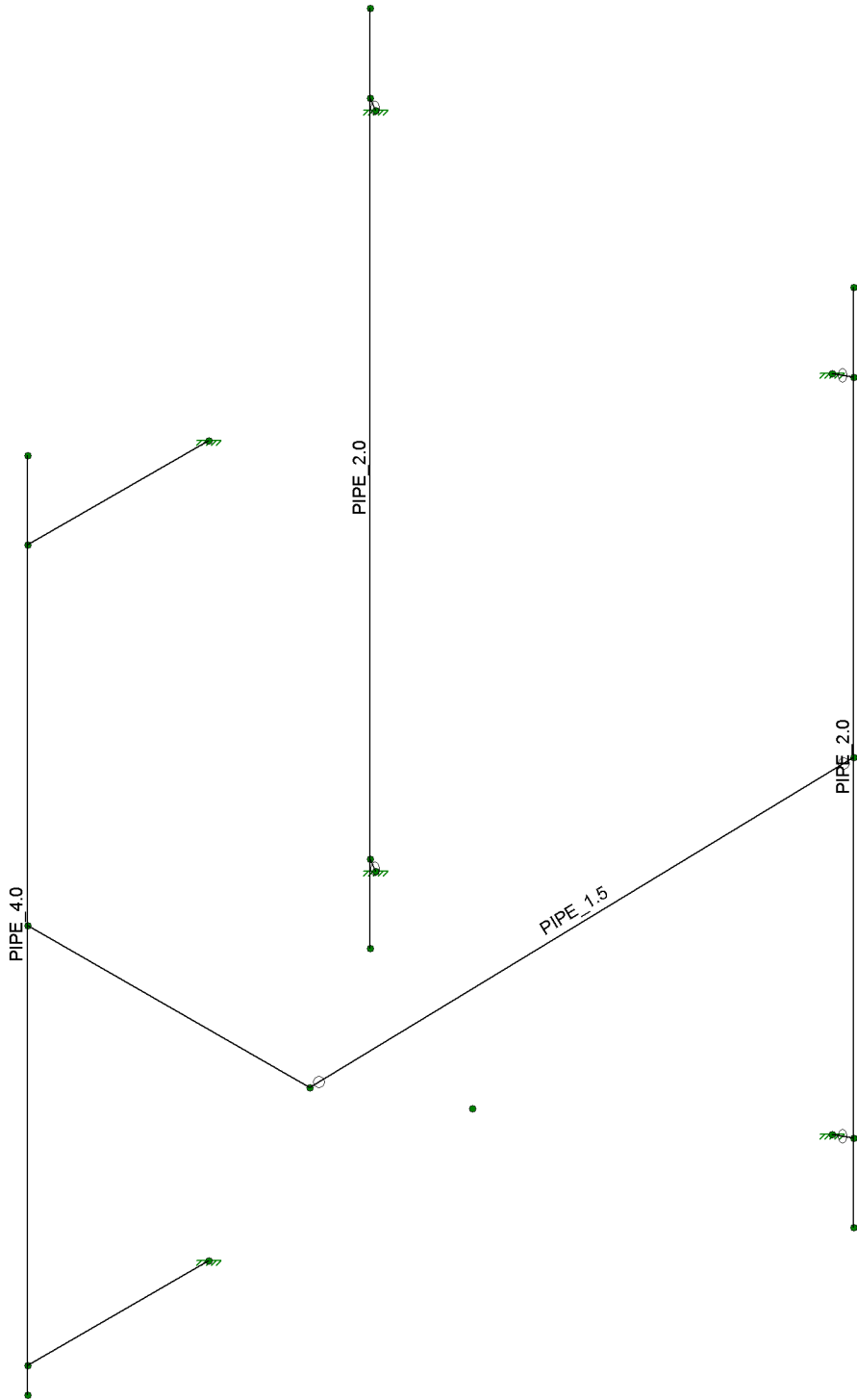
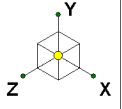


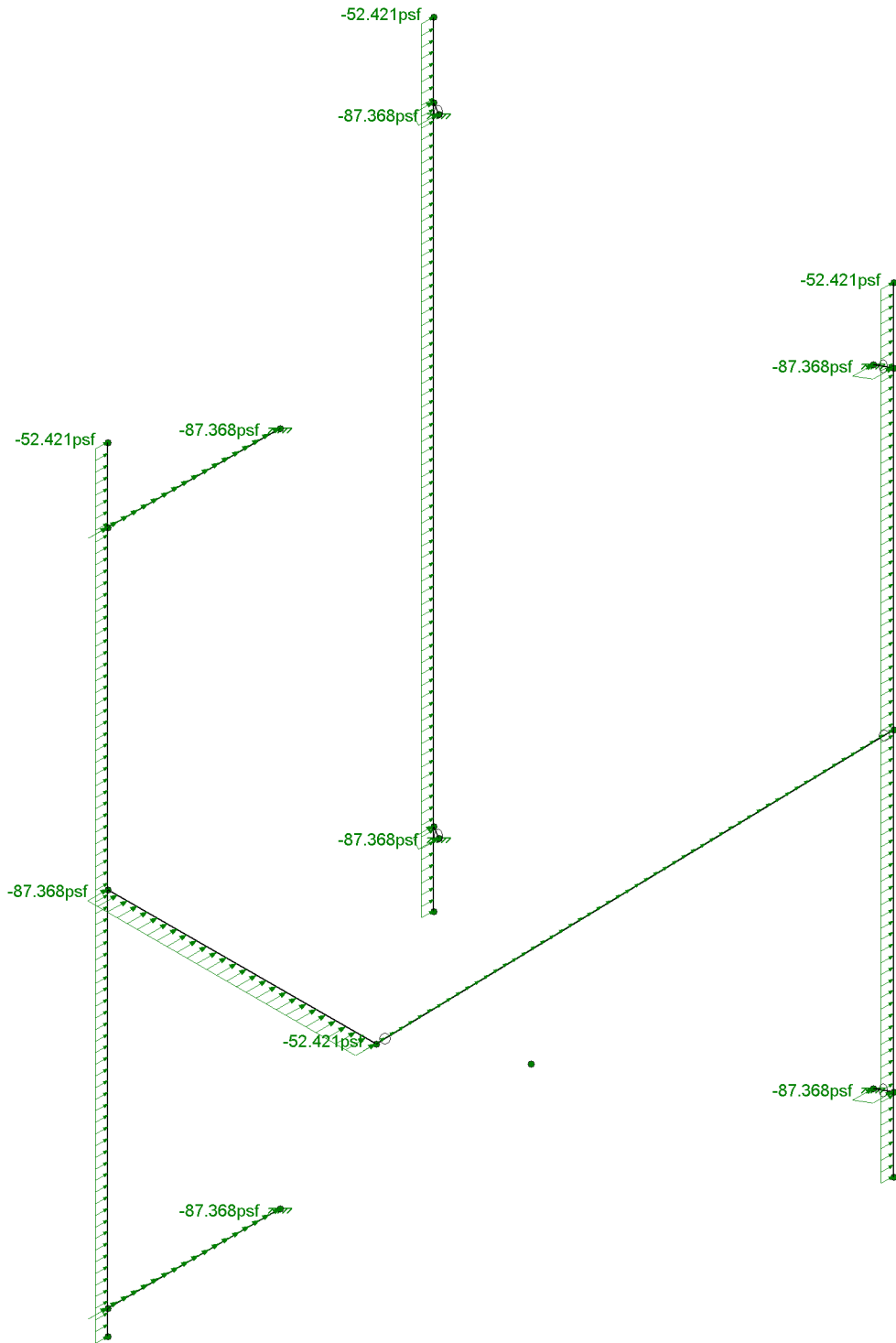
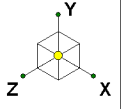
Material Sets  
RIGID  
A53 Gr.B



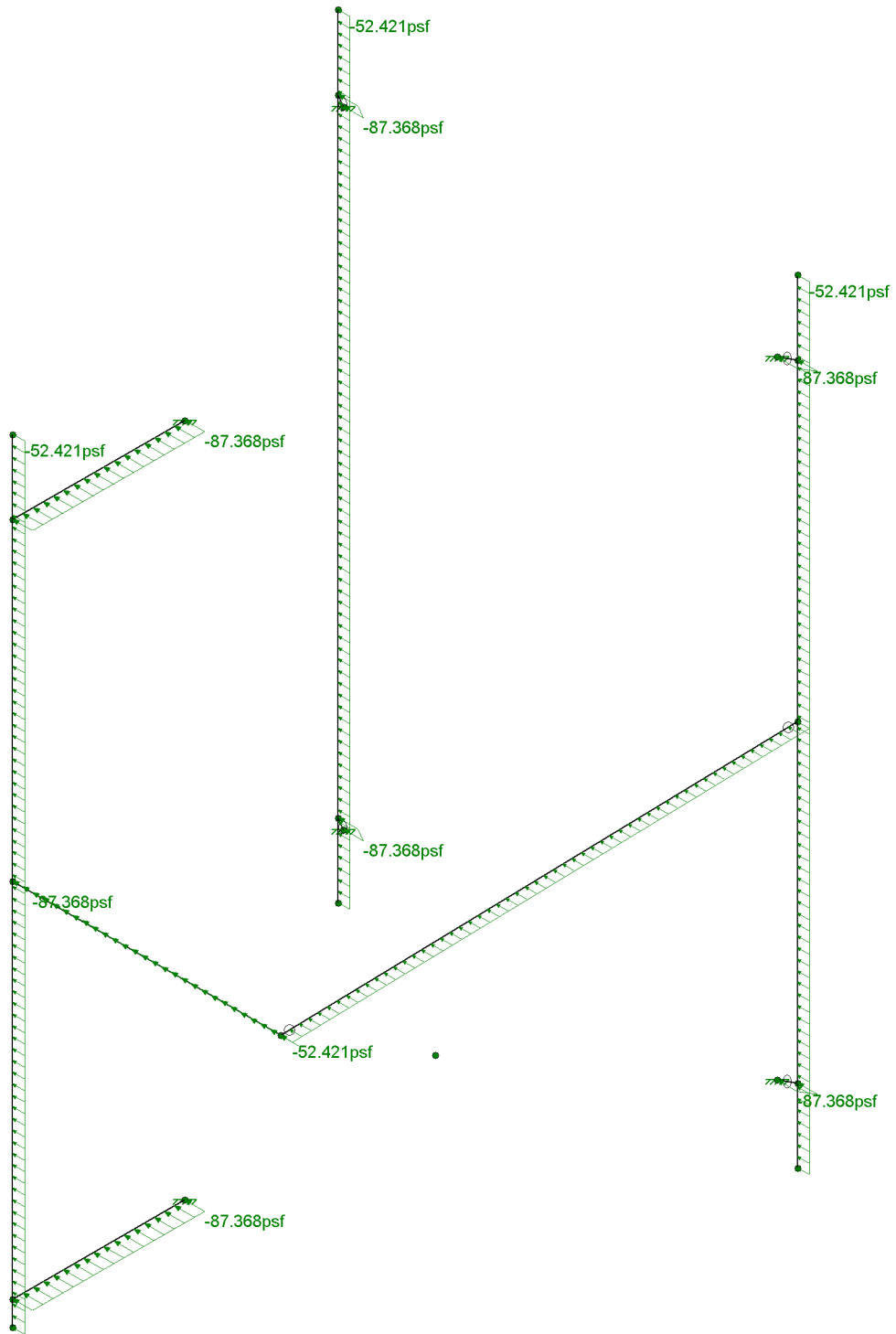
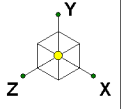




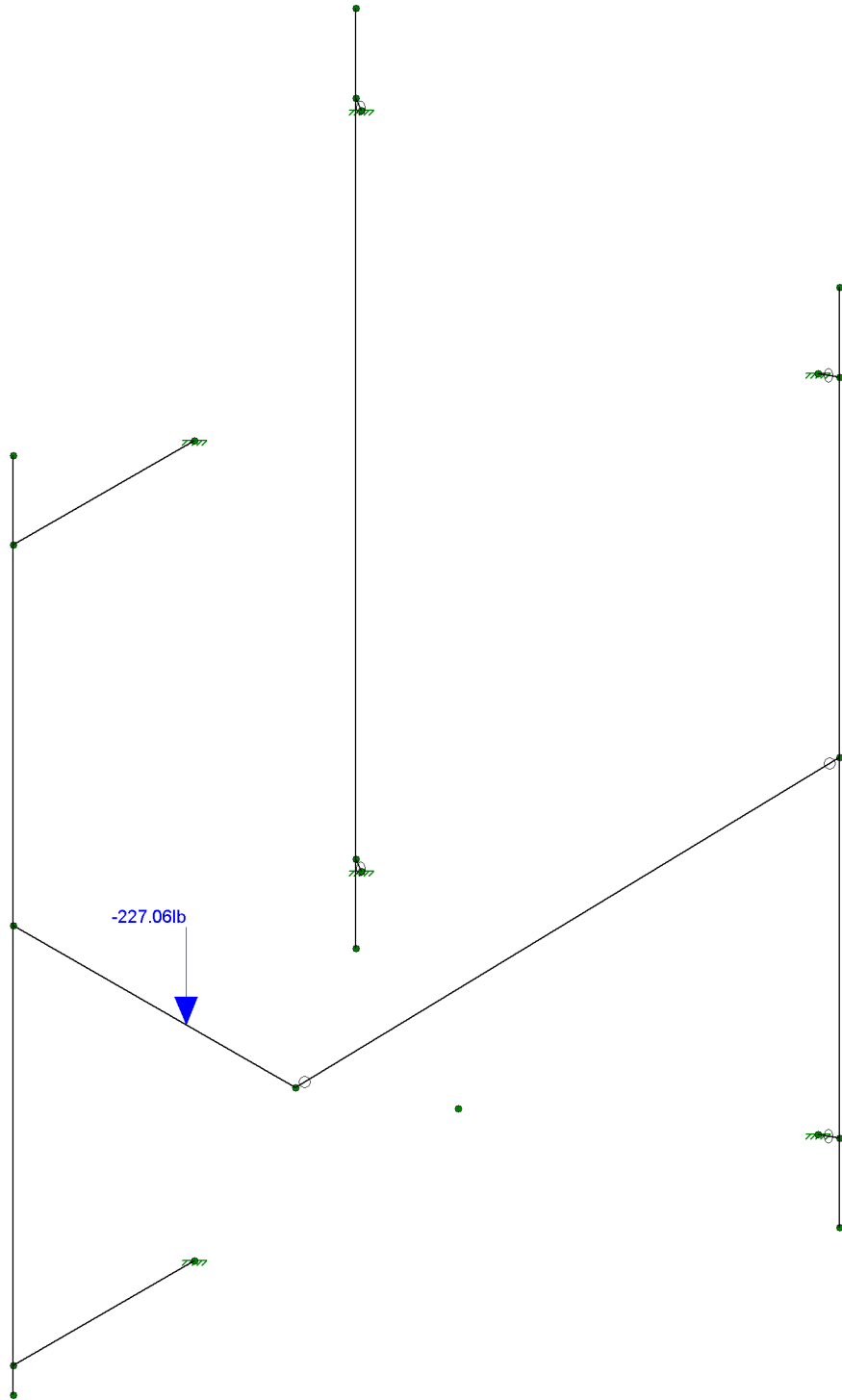
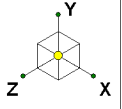




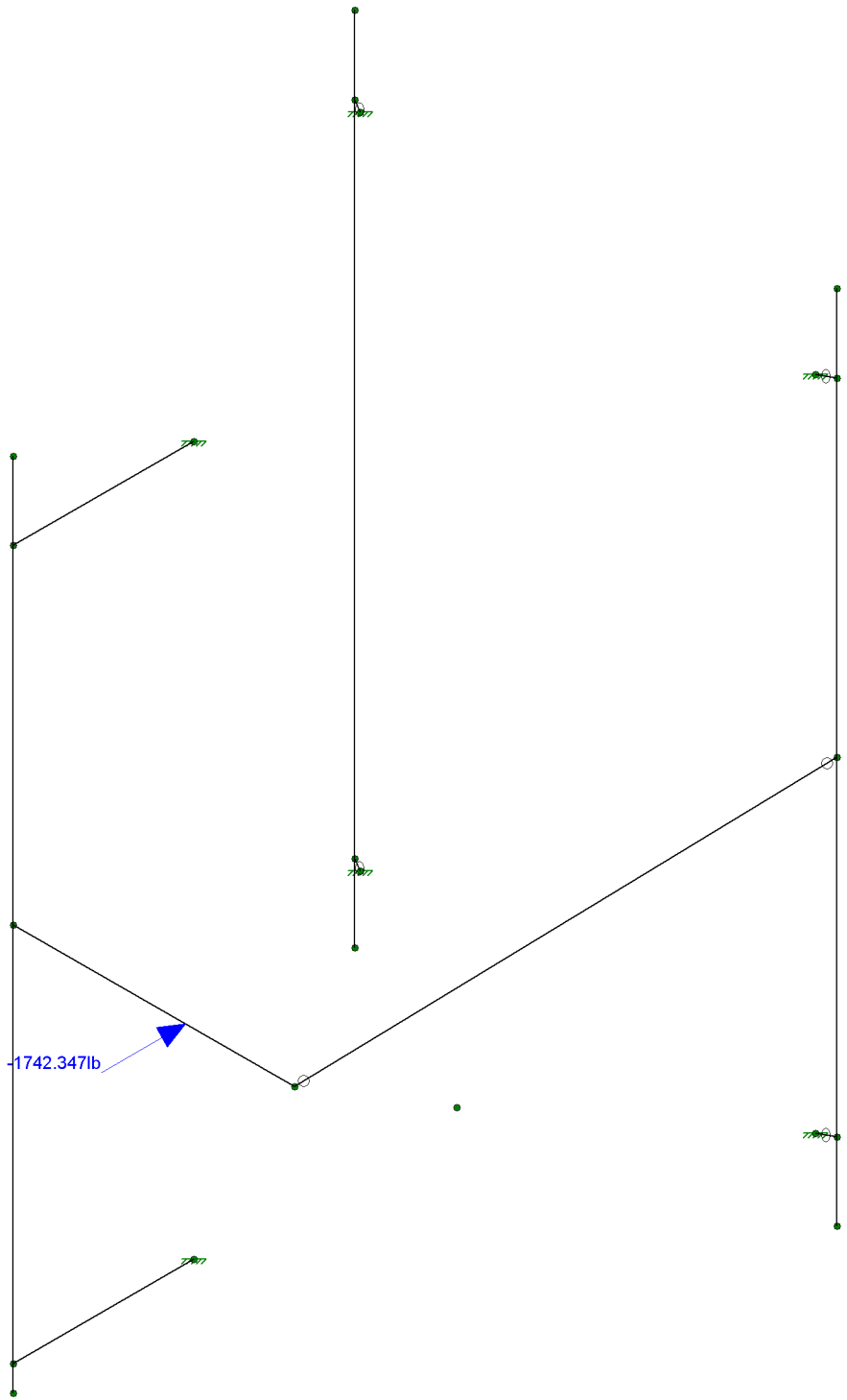
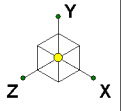
Loads: BLC 2, Structure Wind Z  
Envelope Only Solution



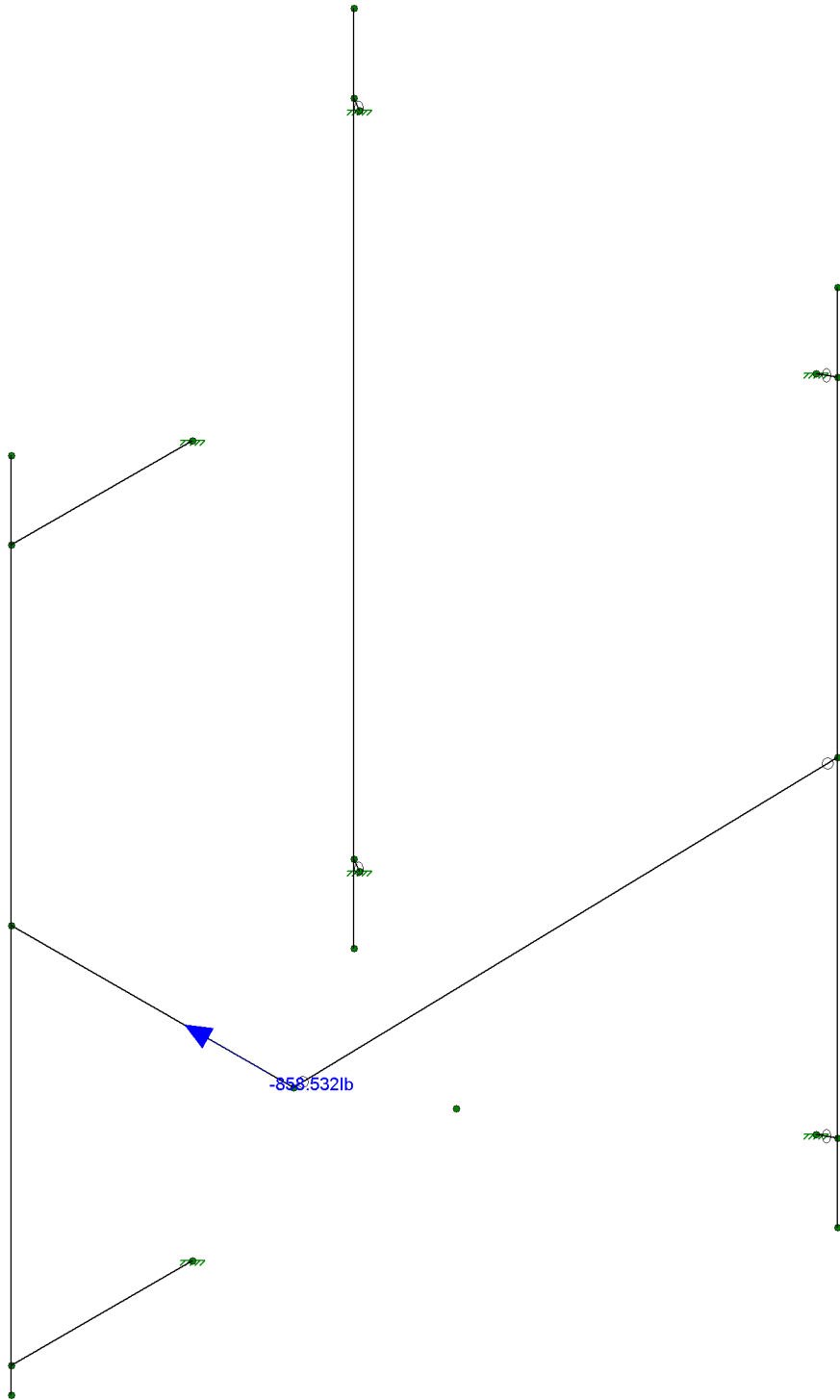
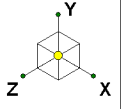
Loads: BLC 3, Structure Wind X  
Envelope Only Solution



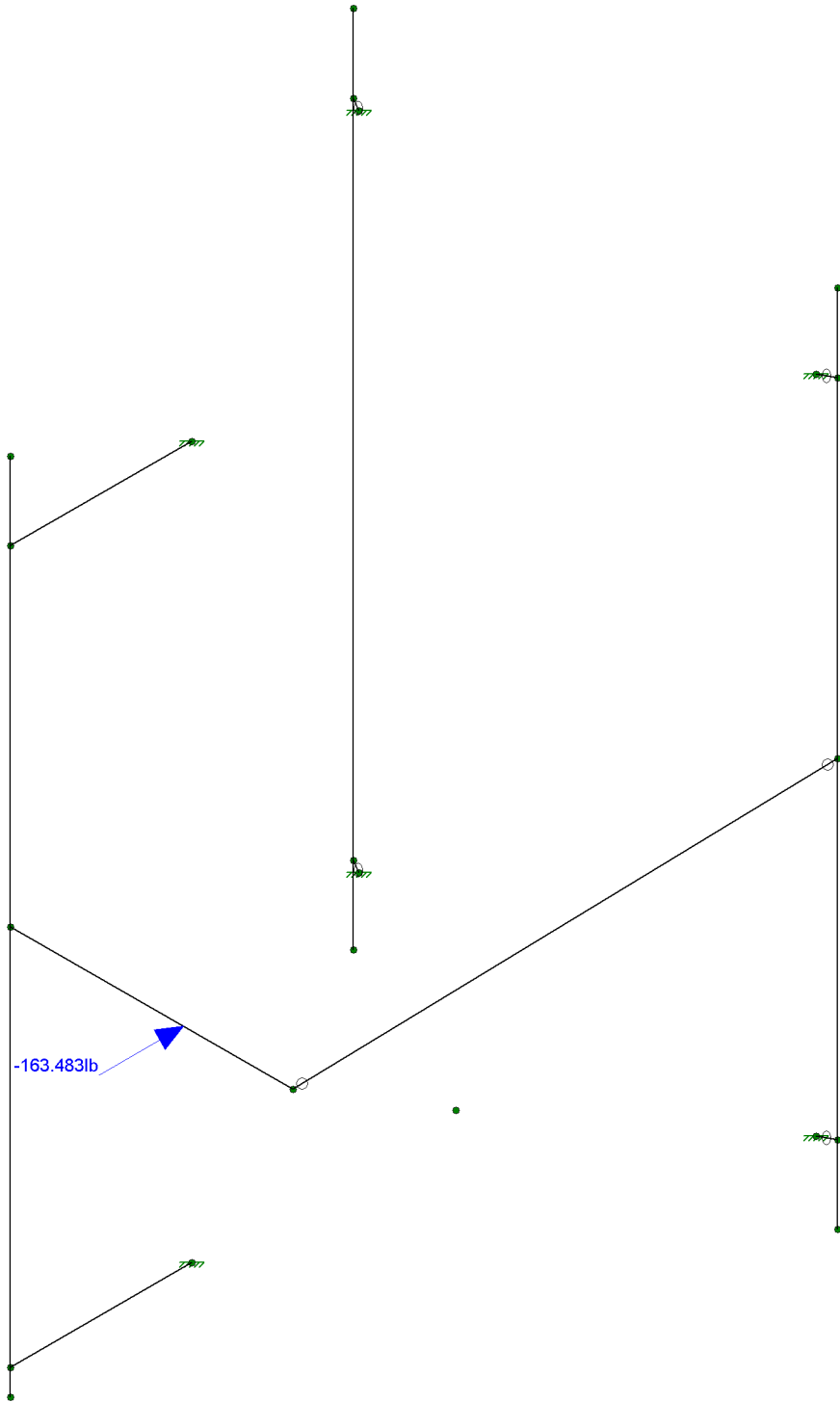
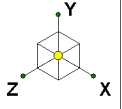
Loads: BLC 1, Self Weight  
Envelope Only Solution



Loads: BLC 4, Wind Load 0 AZI  
Envelope Only Solution

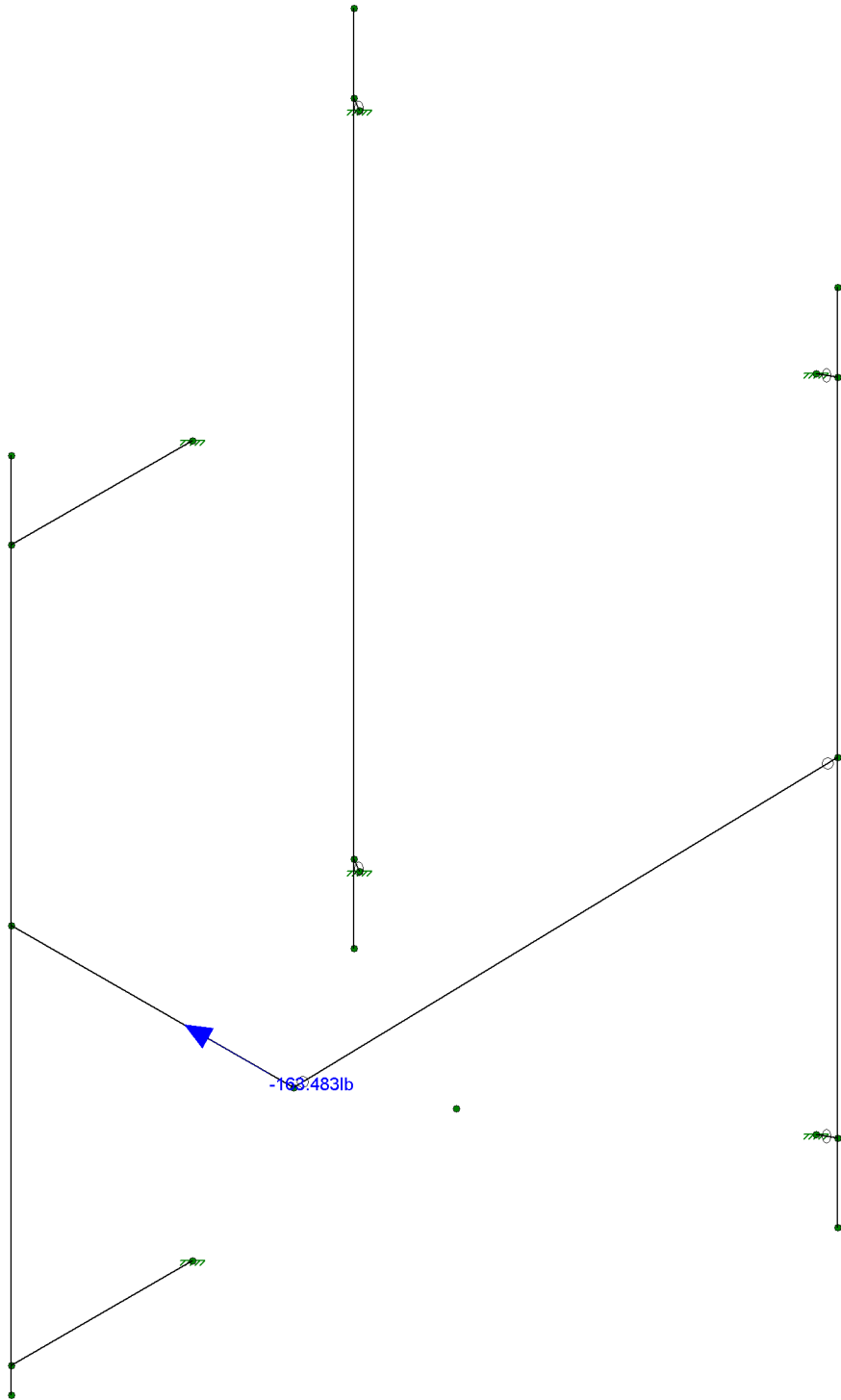
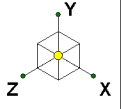


Loads: BLC 8, Wind Load 90 AZI  
Envelope Only Solution



Loads: BLC 12, Seismic Load Z  
Envelope Only Solution





Loads: BLC 13, Seismic Load X  
Envelope Only Solution

*6.0 ft Pipe Mount Mount Analysis - Conditional Passing  
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**APPENDIX B**  
**SOFTWARE INPUT CALCULATIONS**

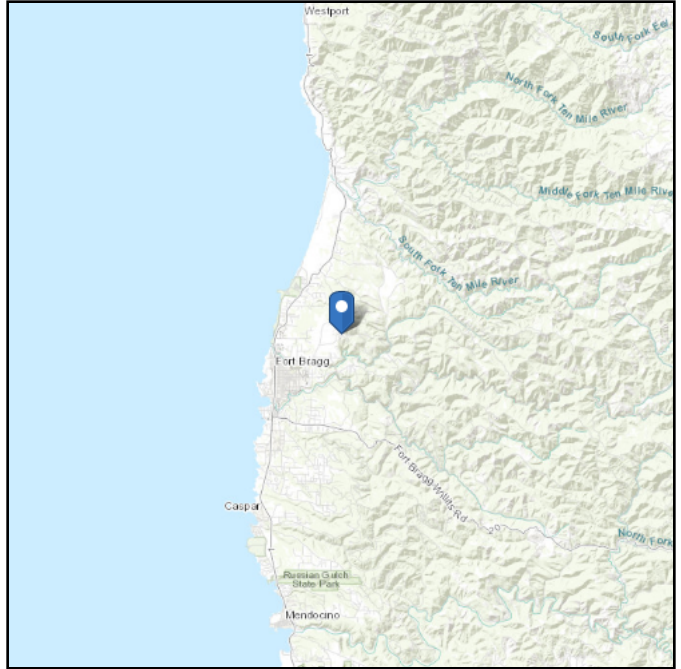
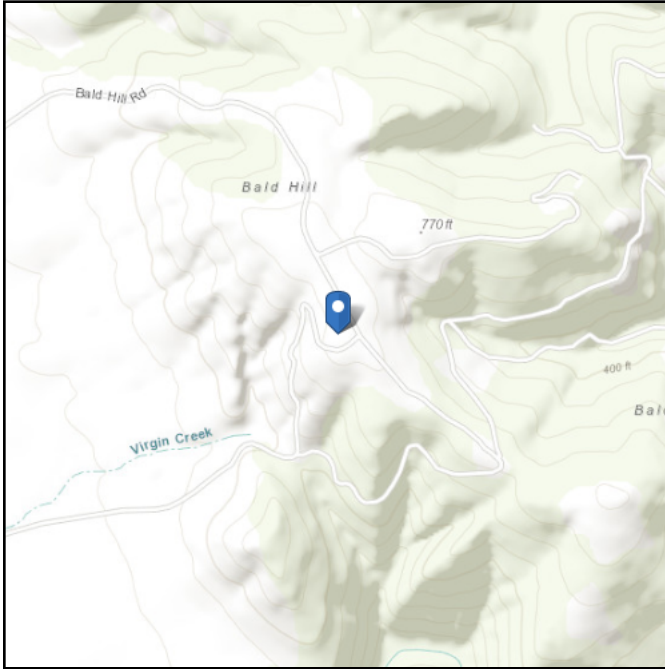


# ASCE Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Default (see Section 11.4.3)

**Latitude:** 39.465  
**Longitude:** -123.758972  
**Elevation:** 746.1612169250584 ft (NAVD 88)



## Wind

**Results:**

Wind Speed	92 Vmph
10-year MRI	63 Vmph
25-year MRI	70 Vmph
50-year MRI	74 Vmph
100-year MRI	78 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2  
Date Accessed: Fri Jul 05 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.



## Seismic

---

**Site Soil Class:** D - Default (see Section 11.4.3)

**Results:**

$S_s$ :	1.5	$S_{D1}$ :	N/A
$S_1$ :	0.6	$T_L$ :	12
$F_a$ :	1.2	PGA :	0.534
$F_v$ :	N/A	PGA <sub>M</sub> :	0.641
$S_{MS}$ :	1.8	$F_{PGA}$ :	1.2
$S_{M1}$ :	N/A	$I_e$ :	1
$S_{DS}$ :	1.2	$C_v$ :	1.4

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

**Data Accessed:** Fri Jul 05 2024

**Date Source:** [USGS Seismic Design Maps](#)



## Ice

---

### Results:

Ice Thickness: 0 in.  
Concurrent Temperature: 25 F  
Gust Speed 30 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Fri Jul 05 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

---

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.



# Trylon

1825 W. Walnut Hill Lane, Suite 120  
Irving, Texas 75038

## TIA LOAD CALCULATOR 2.2

PROJECT DATA	
Job Code:	241044
Carrier Site ID:	814771
Carrier Site Name:	FORT BRAGG (REVISED)

CODES AND STANDARDS	
Building Code:	2021 IBC
Local Building Code:	2022 CBC
Design Standard:	TIA-222-H

STRUCTURE DETAILS		
Mount Type:	Pipe	--
Mount Elevation:	34.0	ft.
Number of Sectors:	3	--
Structure Type:	Monopole	--
Structure Height:	55.0	ft.

ANALYSIS CRITERIA		
Structure Risk Category:	II	--
Exposure Category:	C	--
Site Class:	D - Default	--
Ground Elevation:	746.16	ft.

TOPOGRAPHIC DATA		
Topographic Category:	5.00	--
Topographic Feature:	Flat Topped Ridge	--
Crest Point Elevation:	745.00	ft.
Base Point Elevation:	370.00	ft.
Crest to Mid-Height (L/2):	660.00	ft.
Distance from Crest (x):	0.00	ft.
Base Topo Factor ( $K_{zt}$ ):	2.657	--
Mount Topo Factor ( $K_{zt}$ ):	2.402	--

WIND PARAMETERS		
Design Wind Speed:	92	mph
Wind Escalation Factor ( $K_s$ ):	1.00	--
Velocity Coefficient ( $K_z$ ):	1.01	--
Directionality Factor ( $K_d$ ):	0.95	--
Gust Effect Factor (G <sub>h</sub> ):	1.00	--
Shielding Factor ( $K_a$ ):	0.90	--
Velocity Pressure ( $q_z$ ):	48.54	psf
Ground Elevation Factor ( $K_e$ ):	0.97	--

ICE PARAMETERS		
Design Ice Wind Speed:	0	mph
Design Ice Thickness ( $t_i$ ):	0.00	in
Importance Factor ( $I_i$ ):	1.00	--
Ice Velocity Pressure ( $q_{zi}$ ):	0.00	psf
Mount Ice Thickness ( $t_{iz}$ ):	0.00	in

WIND STRUCTURE CALCULATIONS		
Flat Member Pressure:	87.37	psf
Round Member Pressure:	52.42	psf
Ice Wind Pressure:	0.00	psf

SEISMIC PARAMETERS		
Importance Factor ( $I_e$ ):	1.00	--
Short Period Accel. ( $S_s$ ):	1.50	g
1 Second Accel. ( $S_1$ ):	0.60	g
Short Period Des. ( $S_{DS}$ ):	1.20	g
1 Second Des. ( $S_{D1}$ ):	0.68	g
Short Period Coeff. ( $F_a$ ):	1.20	--
1 Second Coeff. ( $F_v$ ):	1.70	--
Response Coefficient (C <sub>s</sub> ):	0.60	--
Amplification Factor ( $A_S$ ):	1.20	--

## LOAD COMBINATIONS [LRFD]

#	Description
1	1.4DL
2	1.2DL + 1WL 0 AZI
3	1.2DL + 1WL 30 AZI
4	1.2DL + 1WL 45 AZI
5	1.2DL + 1WL 60 AZI
6	1.2DL + 1WL 90 AZI
7	1.2DL + 1WL 120 AZI
8	1.2DL + 1WL 135 AZI
9	1.2DL + 1WL 150 AZI
10	1.2DL + 1WL 180 AZI
11	1.2DL + 1WL 210 AZI
12	1.2DL + 1WL 225 AZI
13	1.2DL + 1WL 240 AZI
14	1.2DL + 1WL 270 AZI
15	1.2DL + 1WL 300 AZI
16	1.2DL + 1WL 315 AZI
17	1.2DL + 1WL 330 AZI
18	0.9DL + 1WL 0 AZI
19	0.9DL + 1WL 30 AZI
20	0.9DL + 1WL 45 AZI
21	0.9DL + 1WL 60 AZI
22	0.9DL + 1WL 90 AZI
23	0.9DL + 1WL 120 AZI
24	0.9DL + 1WL 135 AZI
25	0.9DL + 1WL 150 AZI
26	0.9DL + 1WL 180 AZI
27	0.9DL + 1WL 210 AZI
28	0.9DL + 1WL 225 AZI
29	0.9DL + 1WL 240 AZI
30	0.9DL + 1WL 270 AZI
31	0.9DL + 1WL 300 AZI
32	0.9DL + 1WL 315 AZI
33	0.9DL + 1WL 330 AZI
34	1.2DL + 1DLi + 1WLi 0 AZI
35	1.2DL + 1DLi + 1WLi 30 AZI
36	1.2DL + 1DLi + 1WLi 45 AZI
37	1.2DL + 1DLi + 1WLi 60 AZI
38	1.2DL + 1DLi + 1WLi 90 AZI
39	1.2DL + 1DLi + 1WLi 120 AZI
40	1.2DL + 1DLi + 1WLi 135 AZI
41	1.2DL + 1DLi + 1WLi 150 AZI

#	Description
42	1.2DL + 1DLi + 1WLi 180 AZI
43	1.2DL + 1DLi + 1WLi 210 AZI
44	1.2DL + 1DLi + 1WLi 225 AZI
45	1.2DL + 1DLi + 1WLi 240 AZI
46	1.2DL + 1DLi + 1WLi 270 AZI
47	1.2DL + 1DLi + 1WLi 300 AZI
48	1.2DL + 1DLi + 1WLi 315 AZI
49	1.2DL + 1DLi + 1WLi 330 AZI
50	(1.2+0.2Sds) + 1.0E 0 AZI
51	(1.2+0.2Sds) + 1.0E 30 AZI
52	(1.2+0.2Sds) + 1.0E 45 AZI
53	(1.2+0.2Sds) + 1.0E 60 AZI
54	(1.2+0.2Sds) + 1.0E 90 AZI
55	(1.2+0.2Sds) + 1.0E 120 AZI
56	(1.2+0.2Sds) + 1.0E 135 AZI
57	(1.2+0.2Sds) + 1.0E 150 AZI
58	(1.2+0.2Sds) + 1.0E 180 AZI
59	(1.2+0.2Sds) + 1.0E 210 AZI
60	(1.2+0.2Sds) + 1.0E 225 AZI
61	(1.2+0.2Sds) + 1.0E 240 AZI
62	(1.2+0.2Sds) + 1.0E 270 AZI
63	(1.2+0.2Sds) + 1.0E 300 AZI
64	(1.2+0.2Sds) + 1.0E 315 AZI
65	(1.2+0.2Sds) + 1.0E 330 AZI
66	(0.9-0.2Sds) + 1.0E 0 AZI
67	(0.9-0.2Sds) + 1.0E 30 AZI
68	(0.9-0.2Sds) + 1.0E 45 AZI
69	(0.9-0.2Sds) + 1.0E 60 AZI
70	(0.9-0.2Sds) + 1.0E 90 AZI
71	(0.9-0.2Sds) + 1.0E 120 AZI
72	(0.9-0.2Sds) + 1.0E 135 AZI
73	(0.9-0.2Sds) + 1.0E 150 AZI
74	(0.9-0.2Sds) + 1.0E 180 AZI
75	(0.9-0.2Sds) + 1.0E 210 AZI
76	(0.9-0.2Sds) + 1.0E 225 AZI
77	(0.9-0.2Sds) + 1.0E 240 AZI
78	(0.9-0.2Sds) + 1.0E 270 AZI
79	(0.9-0.2Sds) + 1.0E 300 AZI
80	(0.9-0.2Sds) + 1.0E 315 AZI
81	(0.9-0.2Sds) + 1.0E 330 AZI
82-88	1.2D + 1.5 Lv1

#	Description
89	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP1
90	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP1
91	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP1
92	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP1
93	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP1
94	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP1
95	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP1
96	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP1
97	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP1
98	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP1
99	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP1
100	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP1
101	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP1
102	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP1
103	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP1
104	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP1
105	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP2
106	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP2
107	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP2
108	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP2
109	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP2
110	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP2
111	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP2
112	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP2
113	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP2
114	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP2
115	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP2
116	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP2
117	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP2
118	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP2
119	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP2
120	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP2

#	Description
121	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP3
122	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP3
123	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP3
124	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP3
125	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP3
126	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP3
127	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP3
128	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP3
129	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP3
130	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP3
131	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP3
132	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP3
133	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP3
134	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP3
135	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP3
136	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP3
137	1.2D + 1.5Lm + 1.0Wm 0 AZI - MP4
138	1.2D + 1.5Lm + 1.0Wm 30 AZI - MP4
139	1.2D + 1.5Lm + 1.0Wm 45 AZI - MP4
140	1.2D + 1.5Lm + 1.0Wm 60 AZI - MP4
141	1.2D + 1.5Lm + 1.0Wm 90 AZI - MP4
142	1.2D + 1.5Lm + 1.0Wm 120 AZI - MP4
143	1.2D + 1.5Lm + 1.0Wm 135 AZI - MP4
144	1.2D + 1.5Lm + 1.0Wm 150 AZI - MP4
145	1.2D + 1.5Lm + 1.0Wm 180 AZI - MP4
146	1.2D + 1.5Lm + 1.0Wm 210 AZI - MP4
147	1.2D + 1.5Lm + 1.0Wm 225 AZI - MP4
148	1.2D + 1.5Lm + 1.0Wm 240 AZI - MP4
149	1.2D + 1.5Lm + 1.0Wm 270 AZI - MP4
150	1.2D + 1.5Lm + 1.0Wm 300 AZI - MP4
151	1.2D + 1.5Lm + 1.0Wm 315 AZI - MP4
152	1.2D + 1.5Lm + 1.0Wm 330 AZI - MP4

\*This page shows an example of maintenance loads for (4) pipes, the number of mount pipe LCs may vary per site







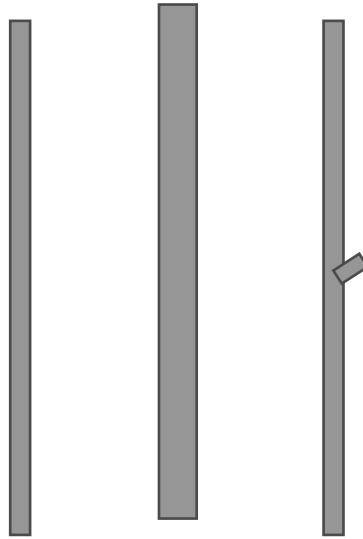






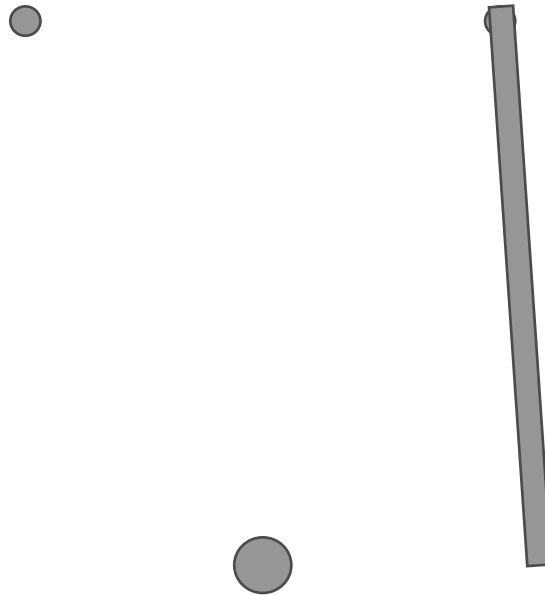


ELEVATION VIEW



\*these drawings are intended to show approximate locations of equipment on the mount and should not be used to determine exact placement of equipment or additional hardware

PLAN VIEW







*6.0 ft Pipe Mount Mount Analysis - Conditional Passing  
Order 670425, Revision 0*

*July 5, 2024  
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**APPENDIX C**  
**SOFTWARE ANALYSIS OUTPUT**



Ó[ { } æ ^ K V i ^ [ ]
Ô • ã } ^ ! K T Ó
ŕ à Æ ~ { à ! K G F E I I
T [ à ^ Á æ ^ K I F I I F

R | Á È Ö E G
J K I Á Ú T
Ô @ & ^ à Á Ó K Ó C E

fl `cVUL'A cXY`GYHj| g

Table with 2 columns: Input strings and corresponding output strings. Includes characters like Ö, T, Q, V, U, Y, X, O, U, and symbols like @, &, ^, à, Á, Ó, K, O, C, E, G, J, K, I, Á, Ú, T.

Table with 2 columns: Input strings and corresponding output strings. Includes characters like P, O, U, A, J, C, and symbols like @, &, ^, à, Á, Ó, K, O, C, E, G, J, K, I, Á, Ú, T.

Table with 2 columns: Input strings and corresponding output strings. Includes characters like P, U, O, A, J, C, and symbols like @, &, ^, à, Á, Ó, K, O, C, E, G, J, K, I, Á, Ú, T.









*6.0 ft Pipe Mount Mount Analysis - Conditional Passing  
Order 670425, Revision 0*

*July 5, 2024  
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**APPENDIX D**  
**ADDITIONAL CALCULATIONS**



**BOLT TOOL 1.5.3**

Project Data	
Job Code:	241044
Carrier Site ID:	814771
Carrier Site Name:	FORT BRAGG (REVISED)

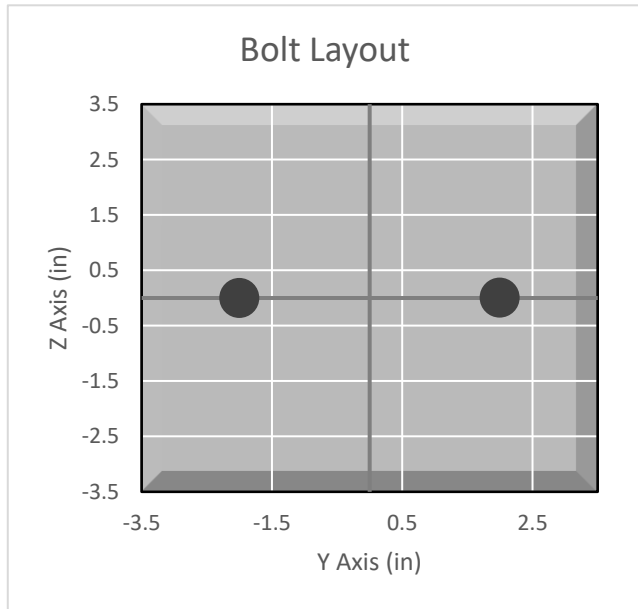
Code	
Design Standard:	TIA-222-H
Slip Check:	No
Pretension Standard:	AISC

Bolt Properties		
Connection Type:	Bolt	
Diameter:	0.625	in
Grade:	A325	--
Yield Strength (Fy):	92	ksi
Ultimate Strength (Fu):	120	ksi
Number of Bolts:	2	--
Threads Included:	Yes	--
Double Shear:	No	--
Connection Pipe Size:	6.5	in

Connection Description
Standoff to Collar

Bolt Check*		
Tensile Capacity ( $\phi T_n$ ):	20340.1	lbs
Shear Capacity ( $\phi V_n$ ):	13805.8	lbs
Tension Force ( $T_u$ ):	0.0	lbs
Shear Force ( $V_u$ ):	4056.7	lbs
Tension Usage:	0.0%	--
Shear Usage:	28.0%	--
Interaction:	28.0%	Pass
Controlling Member:	M2	--
Controlling LC:	17	--

\*Rating per TIA-222-H Section 15.5





*6.0 ft Pipe Mount Mount Analysis - Conditional Passing  
Order 670425, Revision 0*

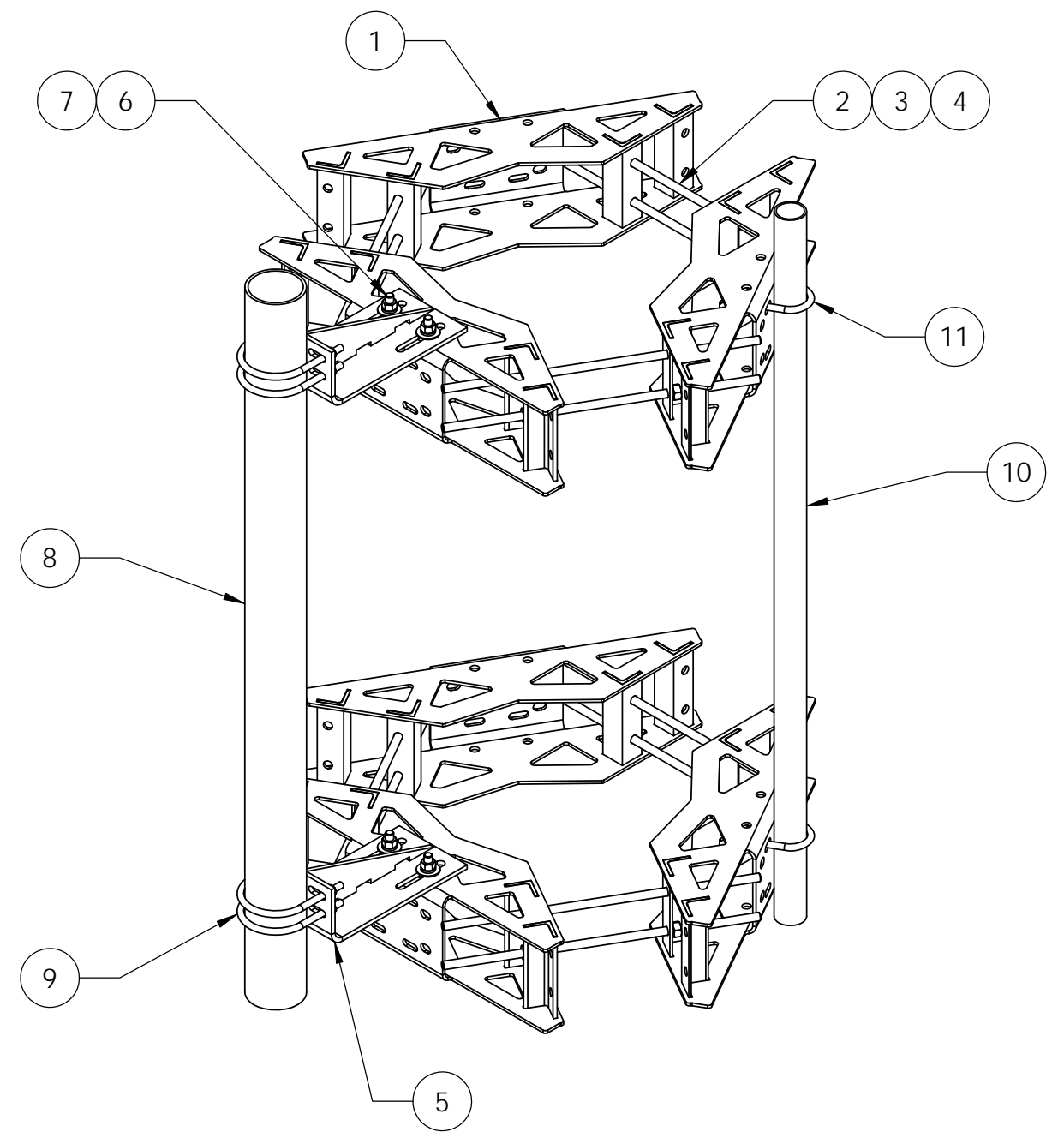
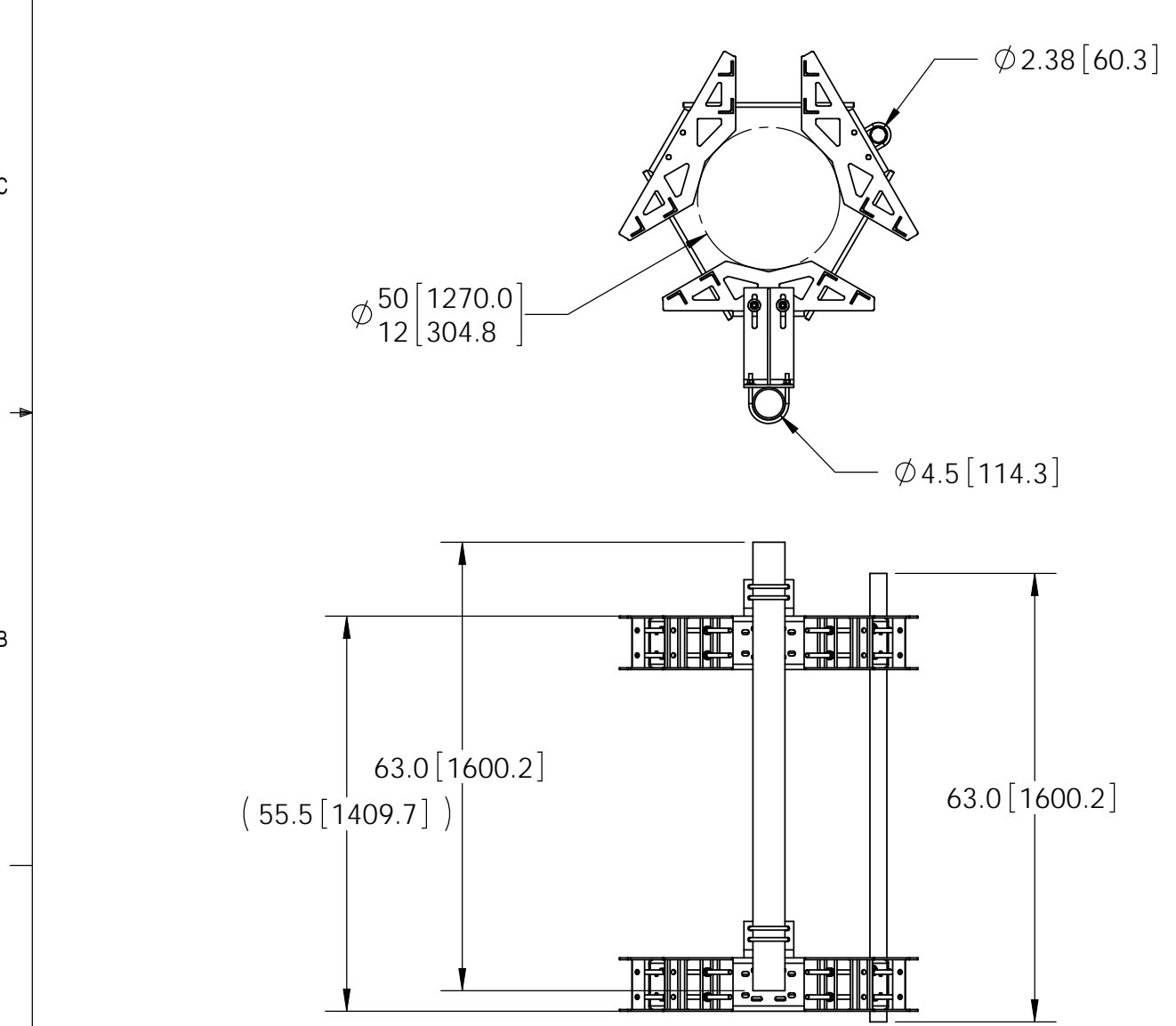
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**APPENDIX E**  
**SUPPLEMENTAL DRAWINGS**

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	MTC328601	10-50 RRU Mount Weldment	6	29.99 LBS
2	MT-382-24	5/8" X 24" GALV THREADED ROD	12	2.07 LBS
3	GWL-05	5/8" GALV LOCK WASHER	24	0.03 LBS
4	GN05A	5/8" GALV HEX NUT (A194 2H)	24	0.12 LBS
5	MTC315902	14" L-Bracket	2	15.46 LBS
6	GB-0520A	5/8" X 2" GALV BOLT KIT (A325)	4	0.27 LBS
7	GWF-05	5/8" GALV FLAT WASHER	4	0.03 LBS
8	MT-653-63	4.5" O.D. PLAIN END PIPE	1	56.35 LBS
9	GUB-4456	1/2" X 4-5/8" X 6-1/2" GALV U-BOLT	4	0.91 LBS
10	MT-650-63	Ø 2.375" OD x 63" PIPE	1	19.08 LBS
11	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	2	0.56 LBS
12	MT38240	5/8" X 40" GALV THREADED ROD	12	3.46 LBS

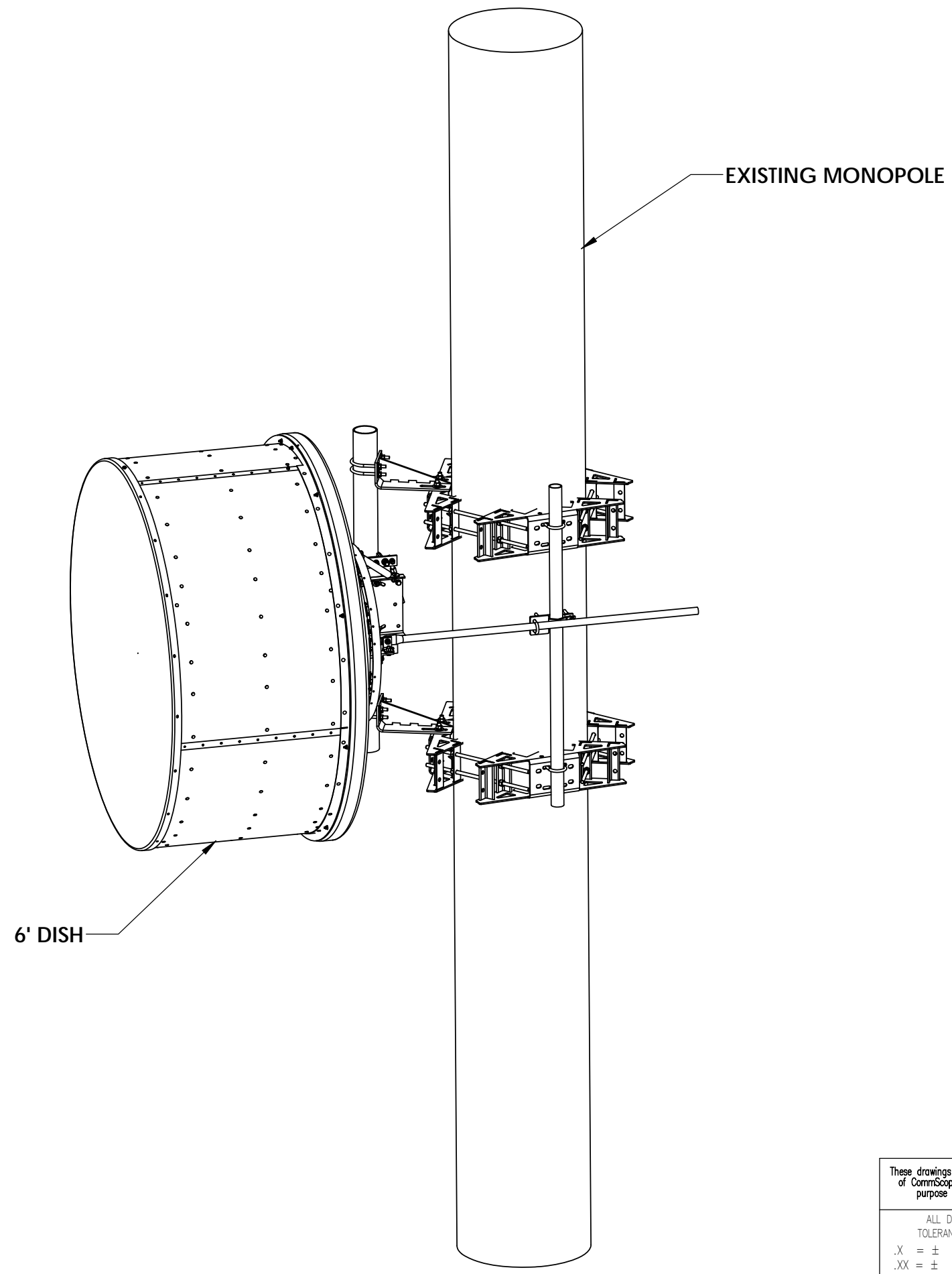
NOT SHOWN

REVISIONS				
REV.	ZONE	DESCRIPTION	BY	DATE
A		INITIAL RELEASE	MSM	10/19/212



- NOTES:
1. ALL METRIC DIMENSIONS ARE IN BRACKETS.
  2. FITS MONOPOLES 12"-50" OD.
  3. MT38240 USED FOR 30"-50" POLE ODs.

These drawings and specifications are the proprietary property of CommScope Inc. and may be used only for the specific purpose authorized in writing by CommScope Inc.  ALL DIMENSIONS ARE IN INCHES U.O.S. TOLERANCES UNLESS OTHERWISE SPECIFIED: .X = ± .12      ANGLES      ±2° .XX = ± .06      FRACTIONS      ±1/32 .XXX = ± .03  REMOVE BURRS AND BREAK EDGES .005  DO NOT SCALE THIS PRINT	DRAWN BY: MSM	SHEET: 1 of 2	PART NUMBER: RM-DM-6
	CHECKED BY: TP	SCALE: NTS	DESCRIPTION: 6' Microwave 12"-50" Monopole Mount
	DATE: 10/19/12	MATERIAL: A36, A500	DRAWING TYPE: ASSEMBLY DRAWING
	REVISION: A	FINISH: GALV A123	<b>COMMSCOPE®</b> Hickory, NC 28602      U.S.A.
WEIGHT: 363.62 LBS			



These drawings and specifications are the proprietary property of CommScope Inc. and may be used only for the specific purpose authorized in writing by CommScope Inc.

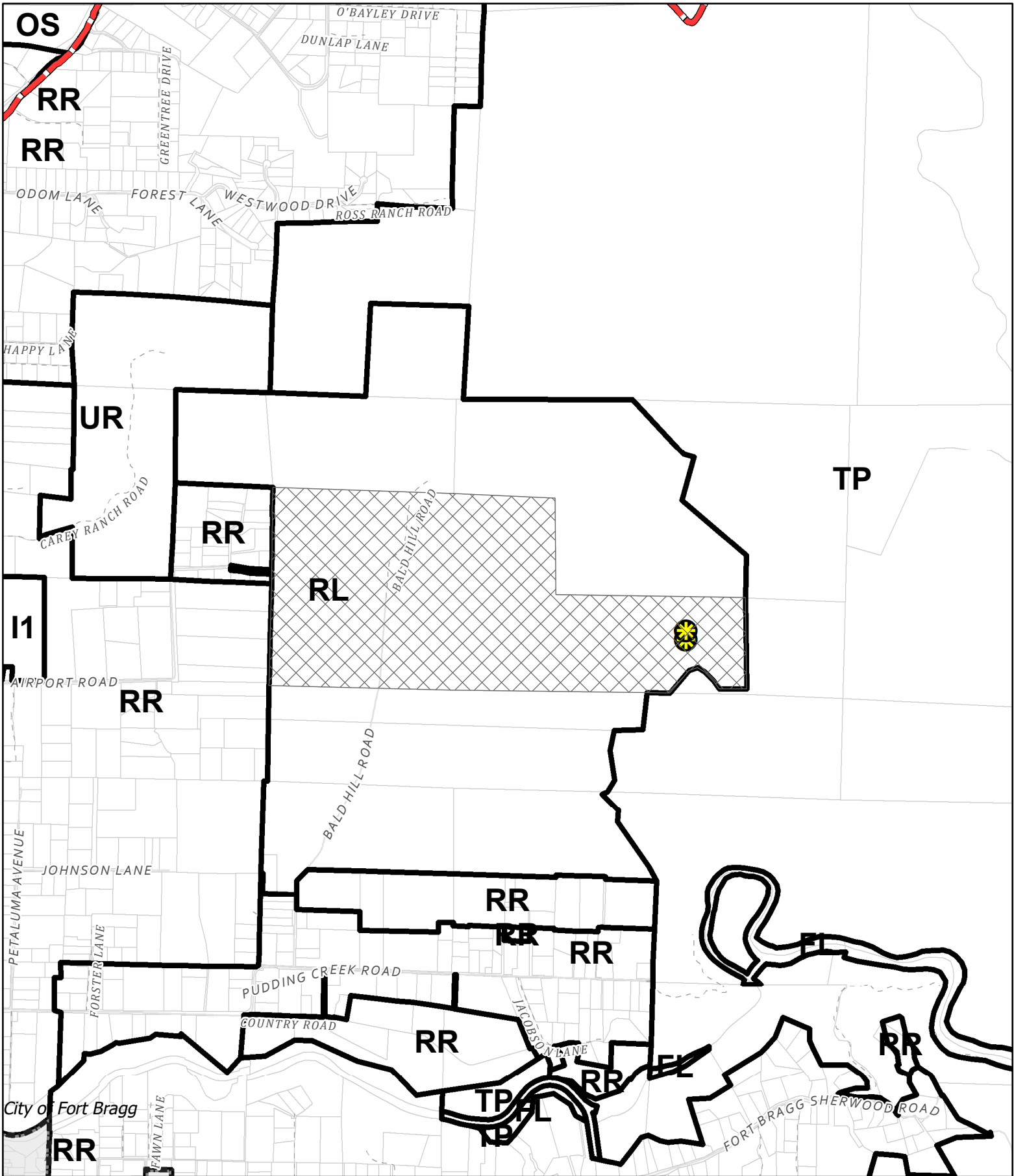
ALL DIMENSIONS ARE IN INCHES U.O.S.  
 TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 .X = ± .12      ANGLES      ±2°  
 .XX = ± .06      FRACTIONS      ±1/32  
 .XXX = ± .03

REMOVE BURRS AND BREAK EDGES .005







DO NOT SCALE THIS PRINT


DRAWN BY: MSM	SHEET: 2 of 2
CHECKED BY: TP	SCALE: NTS
DATE: 10/19/12	MATERIAL: A36, A500
REVISION: <b>A</b>	FINISH: GALV A123
	WEIGHT: 363.62 LBS

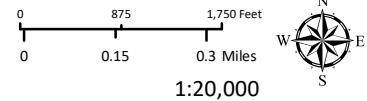
PART NUMBER: <b>RM-DM-6</b>
DESCRIPTION: 6' Microwave 12"-50" Monopole Mount
DRAWING TYPE: ASSEMBLY DRAWING
<b>COMMScope®</b> Hickory, NC 28602 U.S.A.



**CASE:** AP 2024-0028  
**OWNER:** McGuire Family Trust  
**APN:** 069-270-14  
**APLCT:** T-Mobile West LLC  
**AGENT:** T-Mobile West LLC  
**ADDRESS:** 22501 Bald Hill Rd

-  City Limits
-  Coastal Zone Boundary
-  Zoning Districts
-  Public Roads
-  Private Roads
-  Assessors Parcels

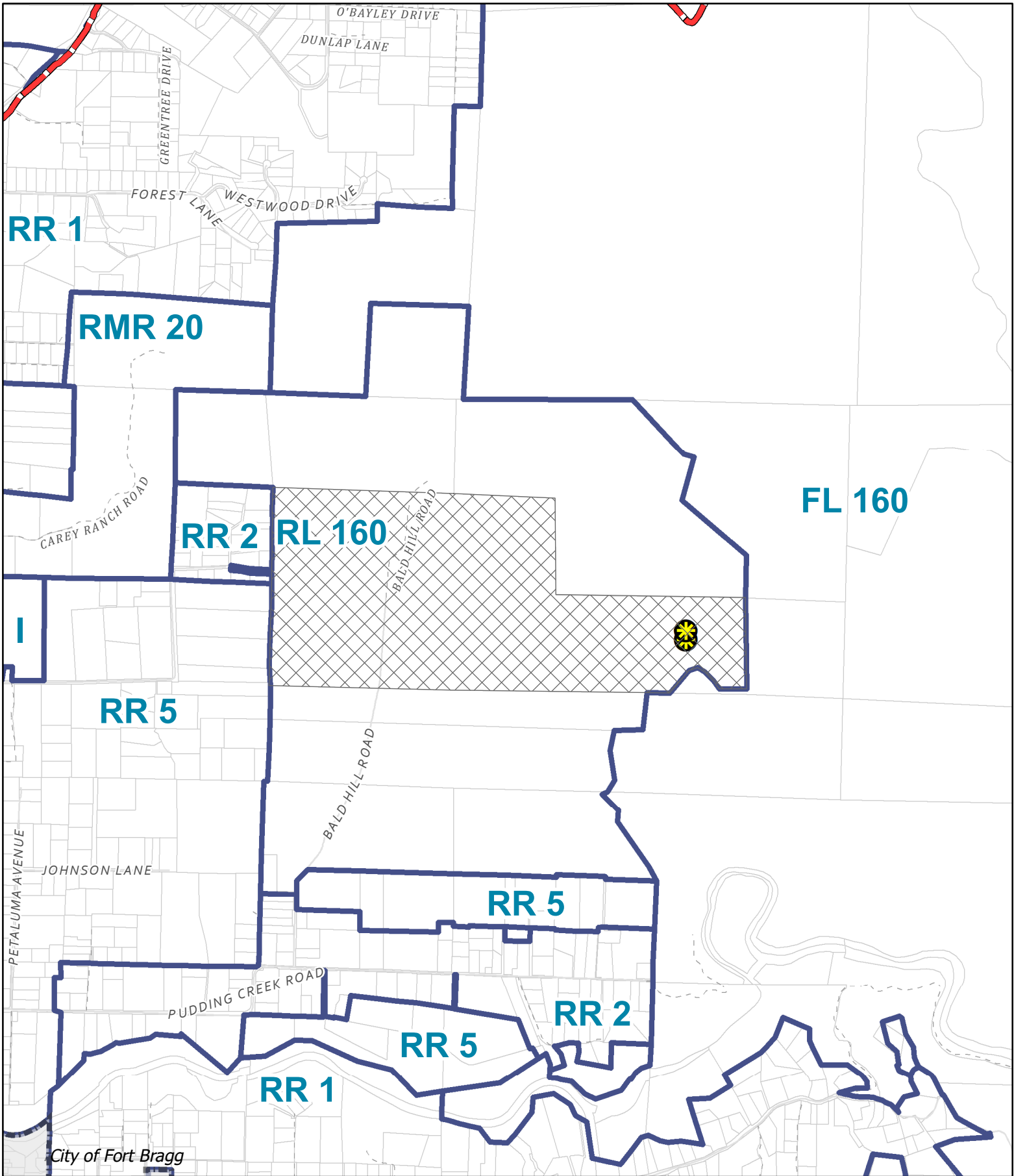
 Approved Wireless Sites









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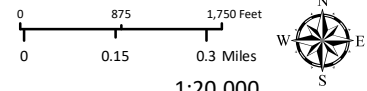
ZONING

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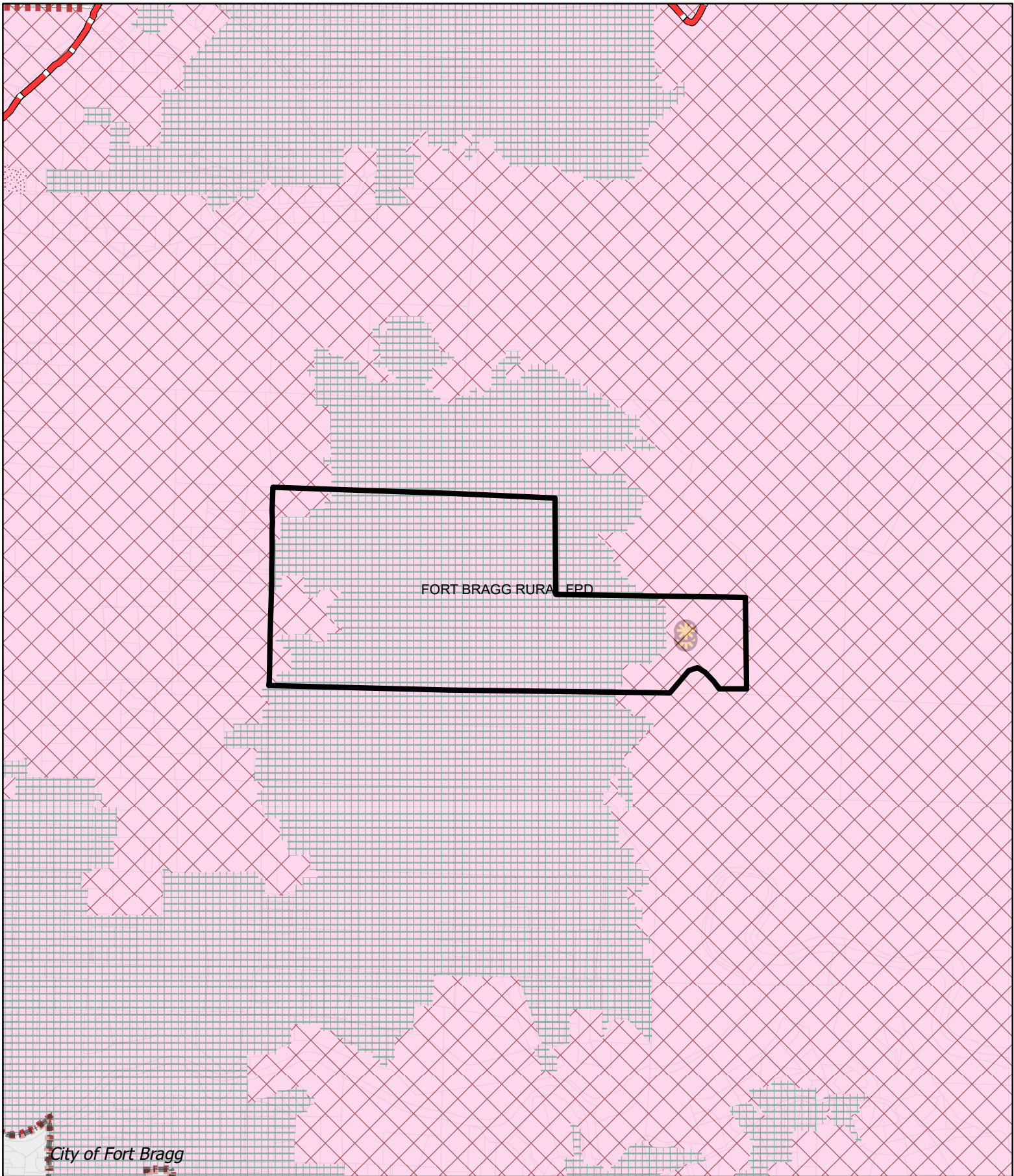
**CASE:** AP 2024-0028  
**OWNER:** McGuire Family Trust  
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-  City Limits
-  Private Roads
-  Coastal Zone Boundary
-  Assessors Parcels
-  Public Roads
-  Approved Wireless Sites



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**GENERAL PLAN**







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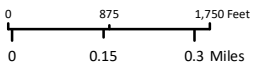
FORT BRAGG RURAL EPD

City of Fort Bragg

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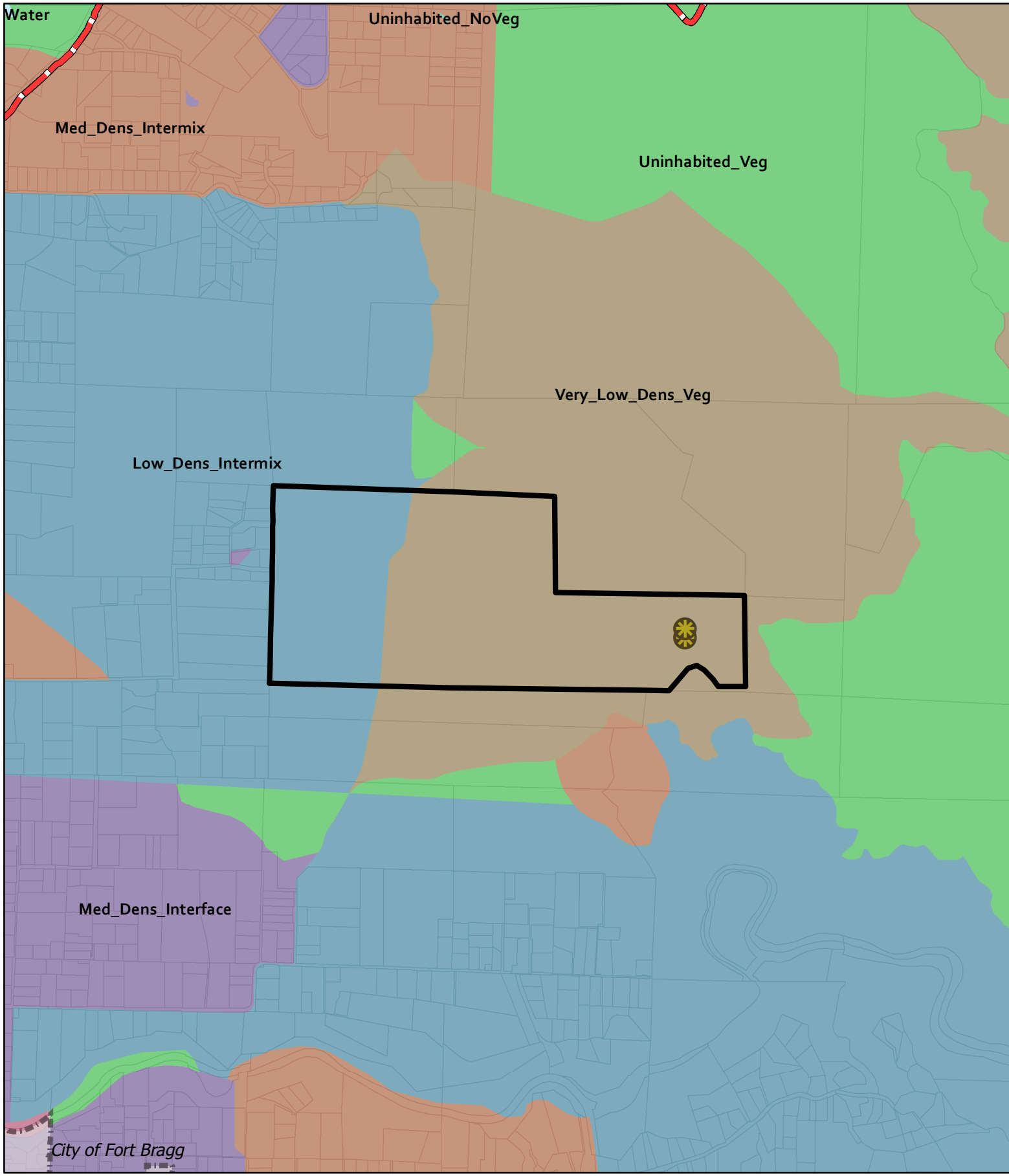
-  City Limits
-  Coastal Zone Boundary
-  Very High Fire Hazard
-  High Fire Hazard
-  Moderate Fire Hazard
-  County Fire Districts

-  Assessors Parcels
-  Approved Wireless Sites







**1:20,000**  
**FIRE HAZARD ZONES & RESPONSIBILITY AREAS**  
 STATE RESPONSIBILITY AREA

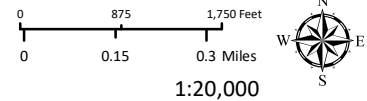
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-  City Limits
-  Coastal Zone Boundary
-  Assessors Parcels

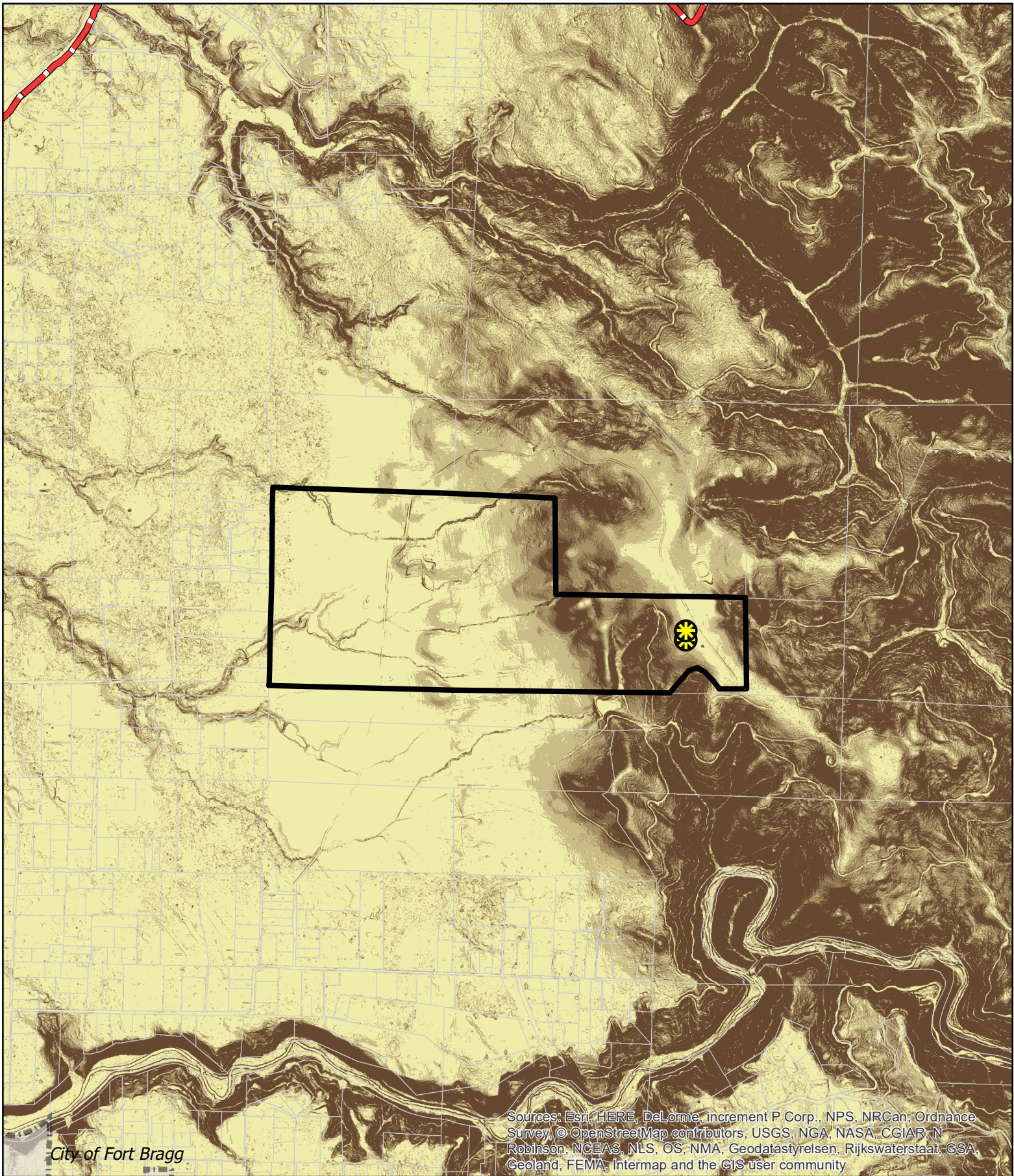
 Approved Wireless Sites



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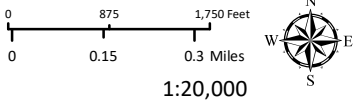
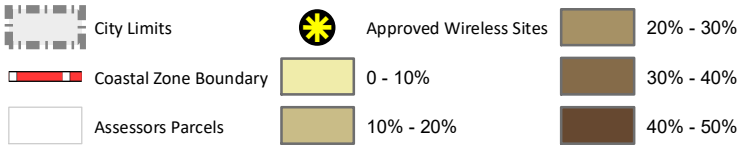
**WILDLAND-URBAN INTERFACE**

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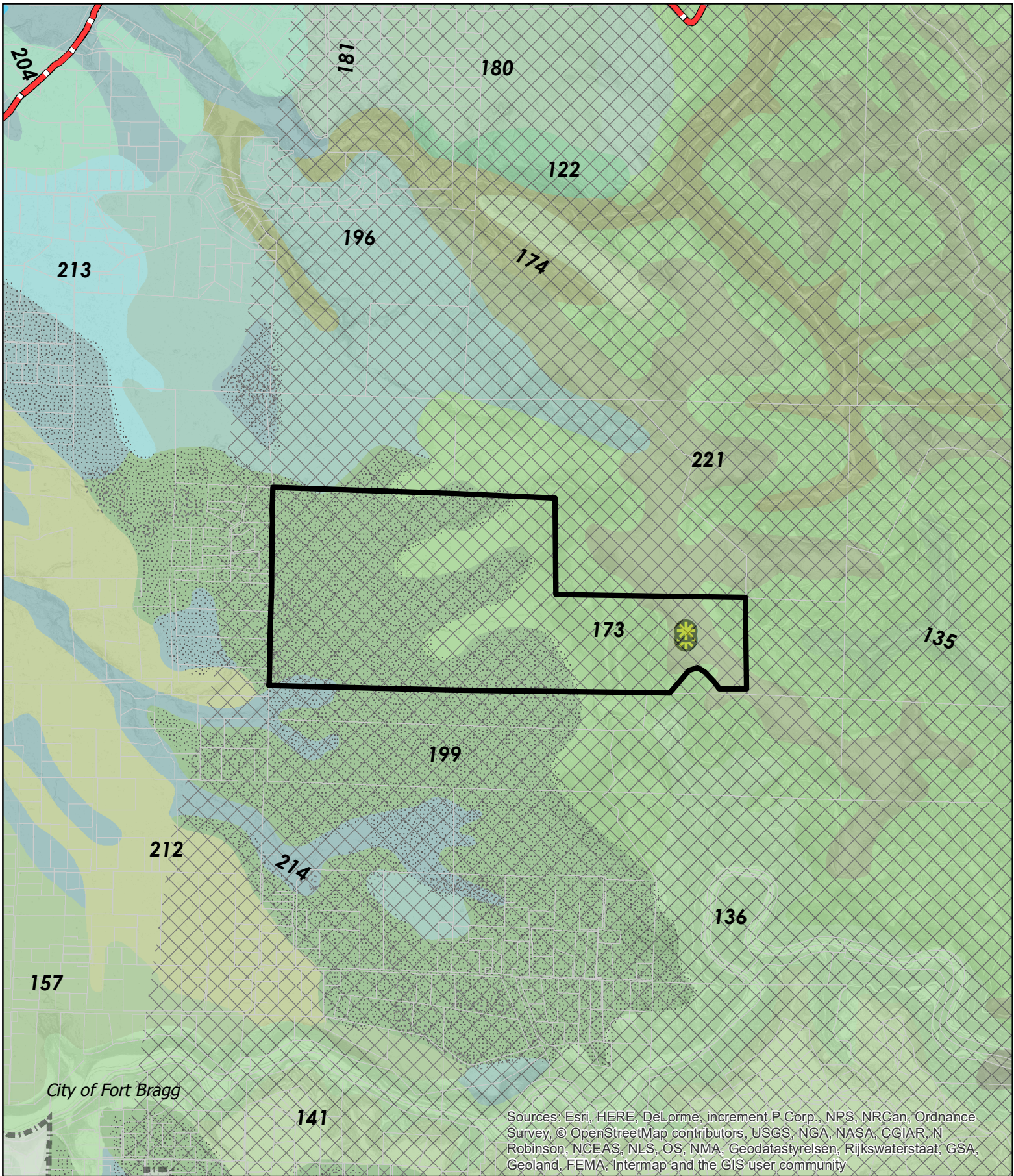
**CASE: AP 2024-0028**  
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**ESTIMATED SLOPE**


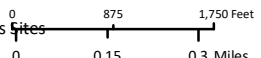

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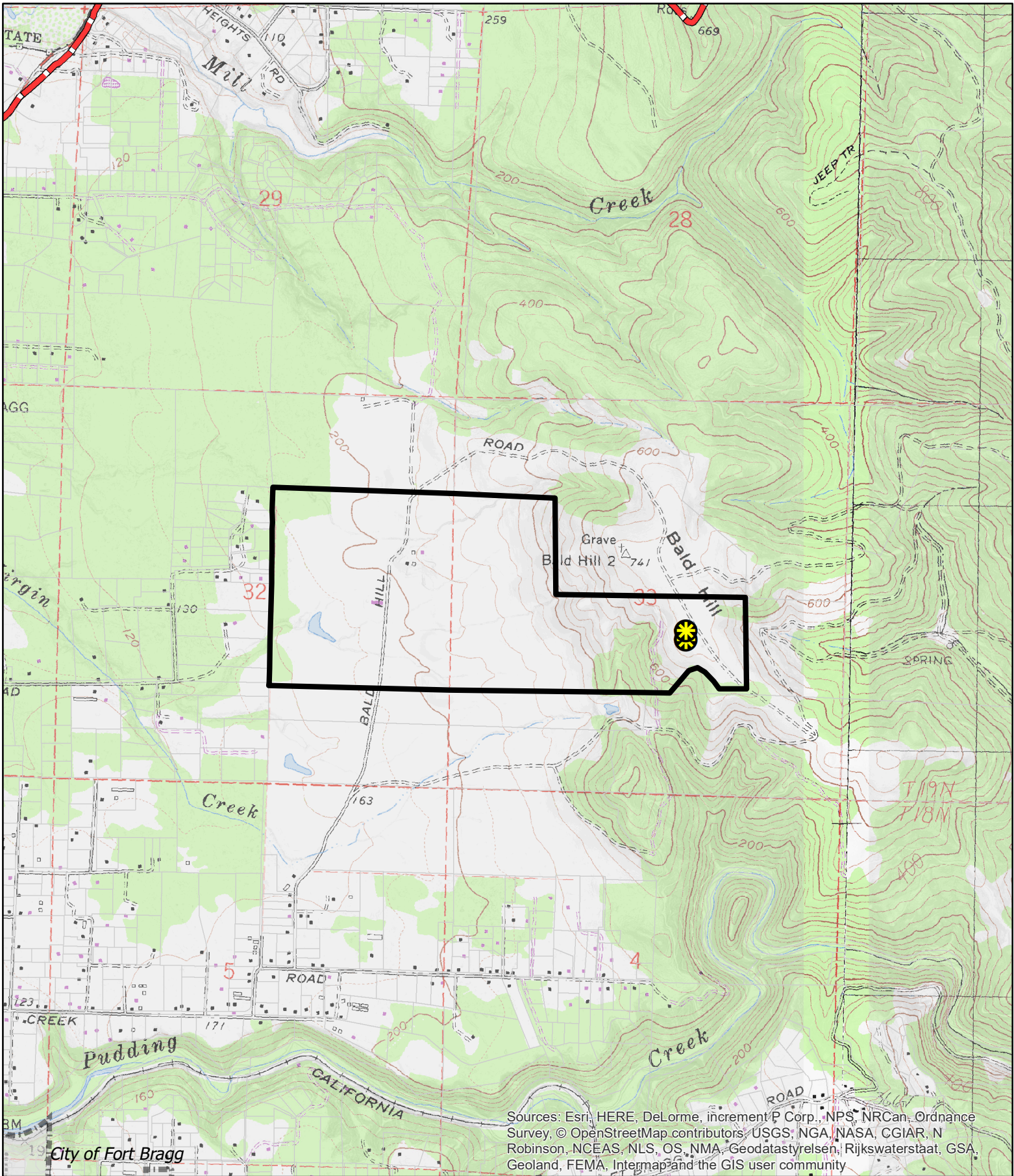
-  City Limits
-  Mendocino Cypress 110922
-  Coastal Zone Boundary
-  Shinglemill-Gibney Complex
-  Assessors Parcels
-  Bishop Pine

 Approved Wireless Sites
 


0 875 1,750 Feet  
0 0.15 0.3 Miles




**WESTERN SOIL CLASSIFICATIONS**


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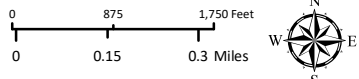


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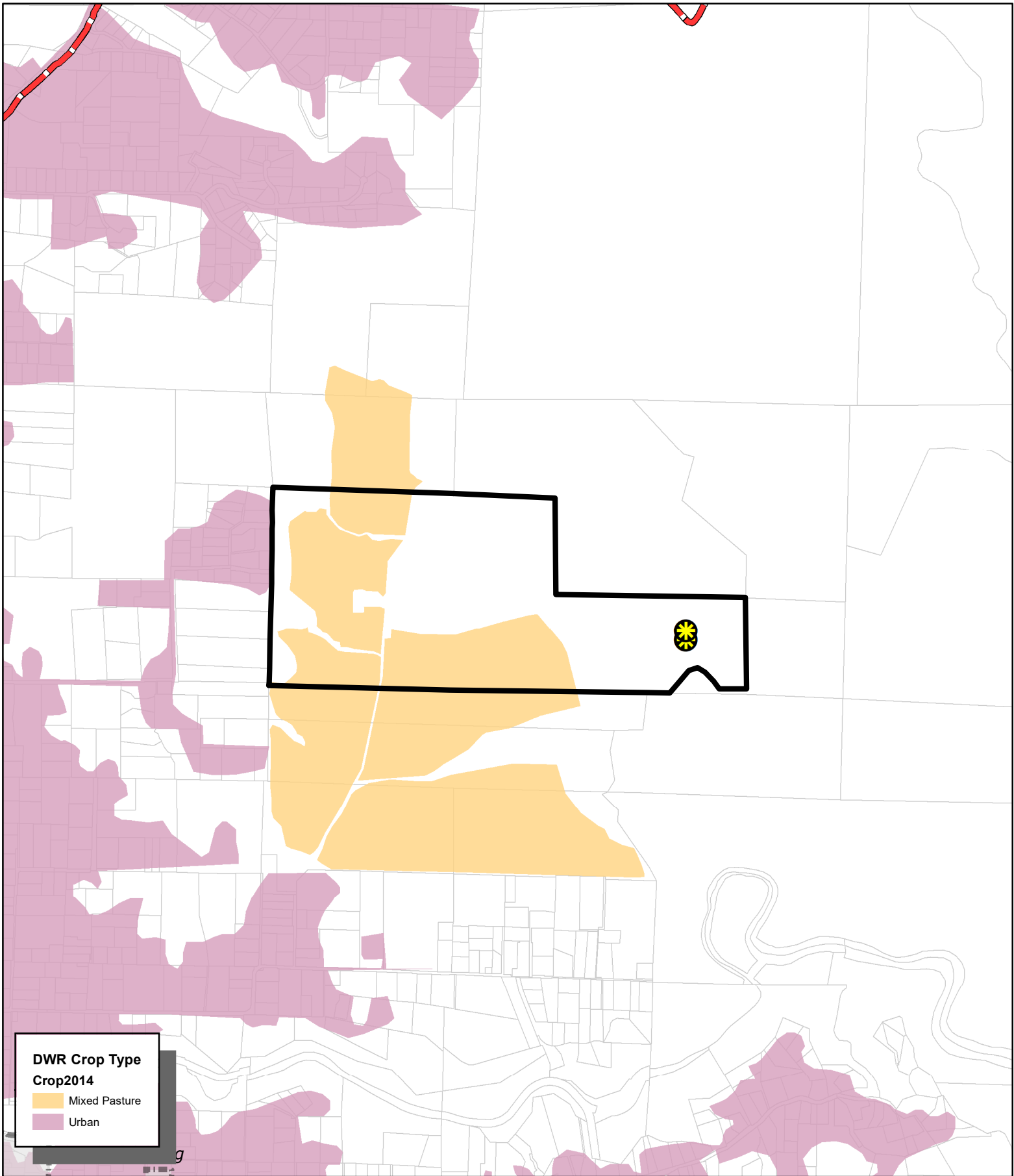
-  City Limits
-  Coastal Zone Boundary
-  Assessors Parcels

 Approved Wireless Sites






1:20,000  
**TOPOGRAPHIC MAP**  
 CONTOUR INTERVAL IS 40 FEET


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**DWR Crop Type**  
**Crop2014**  
 Mixed Pasture  
 Urban

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 City Limits  
 Coastal Zone Boundary  
 Assessors Parcels

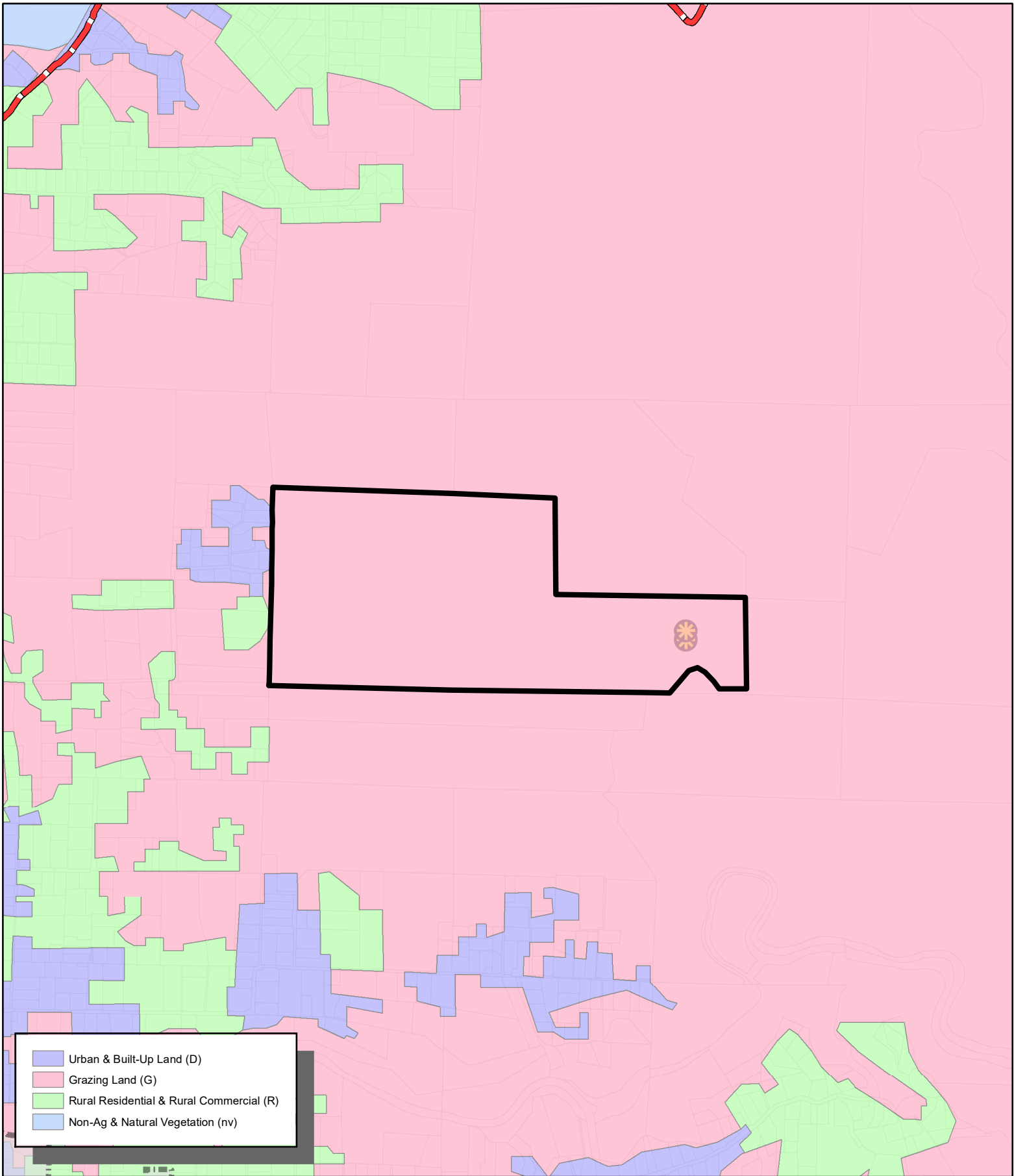
 Approved Wireless Sites

0 875 1,750 Feet  
 0 0.15 0.3 Miles  
 1:20,000



**CROP TYPES**

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- Urban & Built-Up Land (D)
- Grazing Land (G)
- Rural Residential & Rural Commercial (R)
- Non-Ag & Natural Vegetation (nv)

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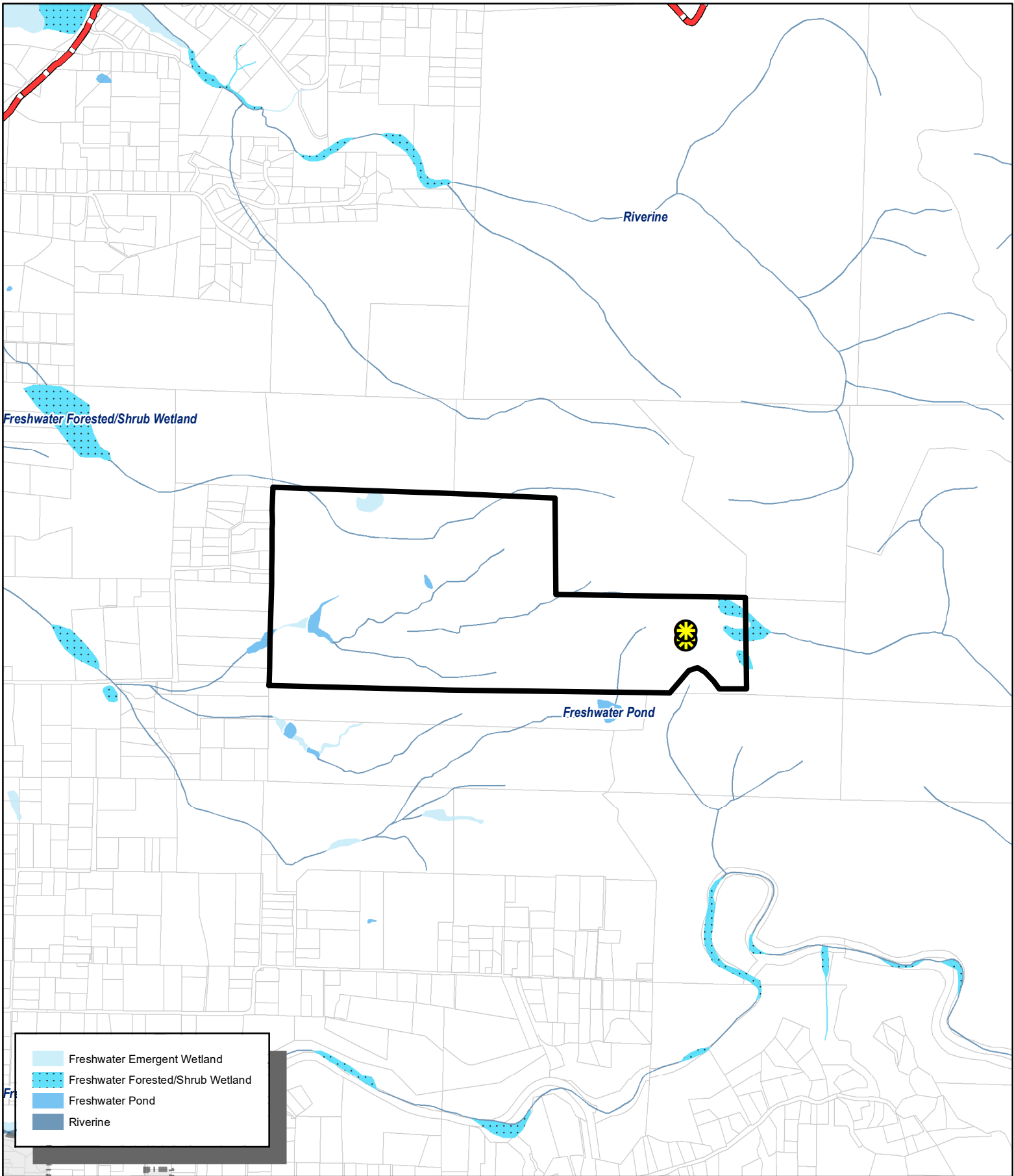
- City Limits
- Coastal Zone Boundary
- Assessors Parcels

- \* Approved Wireless Sites




0 875 1,750 Feet  
 0 0.15 0.3 Miles  
 1:20,000


**IMPORTANT FARMLANDS**

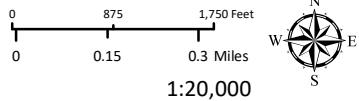
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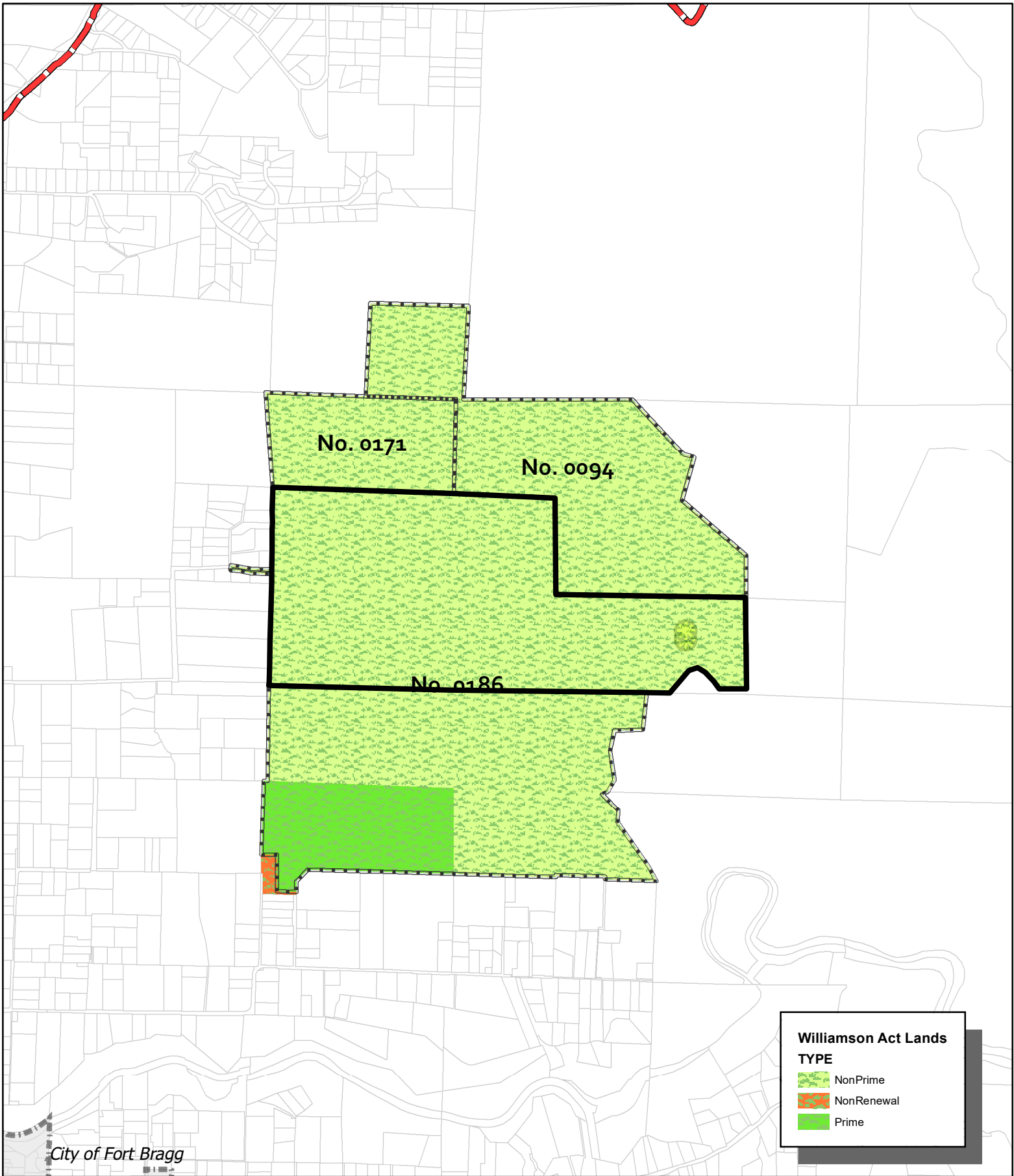
 City Limits  
 Coastal Zone Boundary  
 Assessors Parcels

 Approved Wireless Sites






**WETLANDS**

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City of Fort Bragg

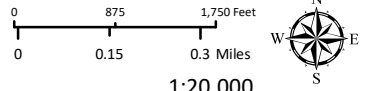
**Williamson Act Lands**  
**TYPE**

-  NonPrime
-  NonRenewal
-  Prime

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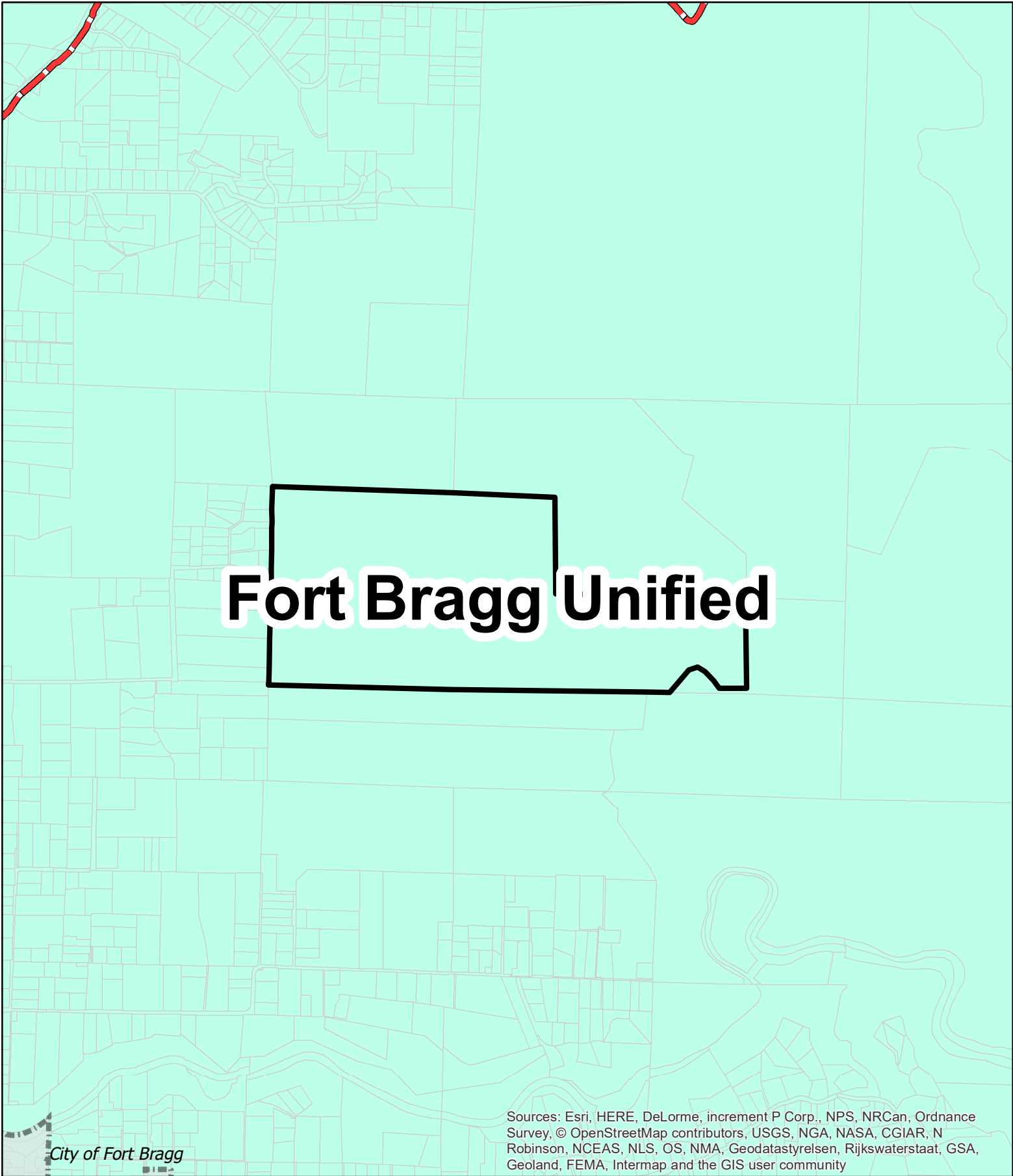
 Approved Wireless Sites



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**WILLIAMSON ACT**

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# Fort Bragg Unified

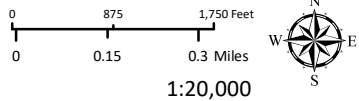
City of Fort Bragg

Sources: Esri, HERE, DeLorme, increment P Corp., NPS, NRCAn, Ordnance Survey, © OpenStreetMap contributors, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

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-  Assessors Parcels

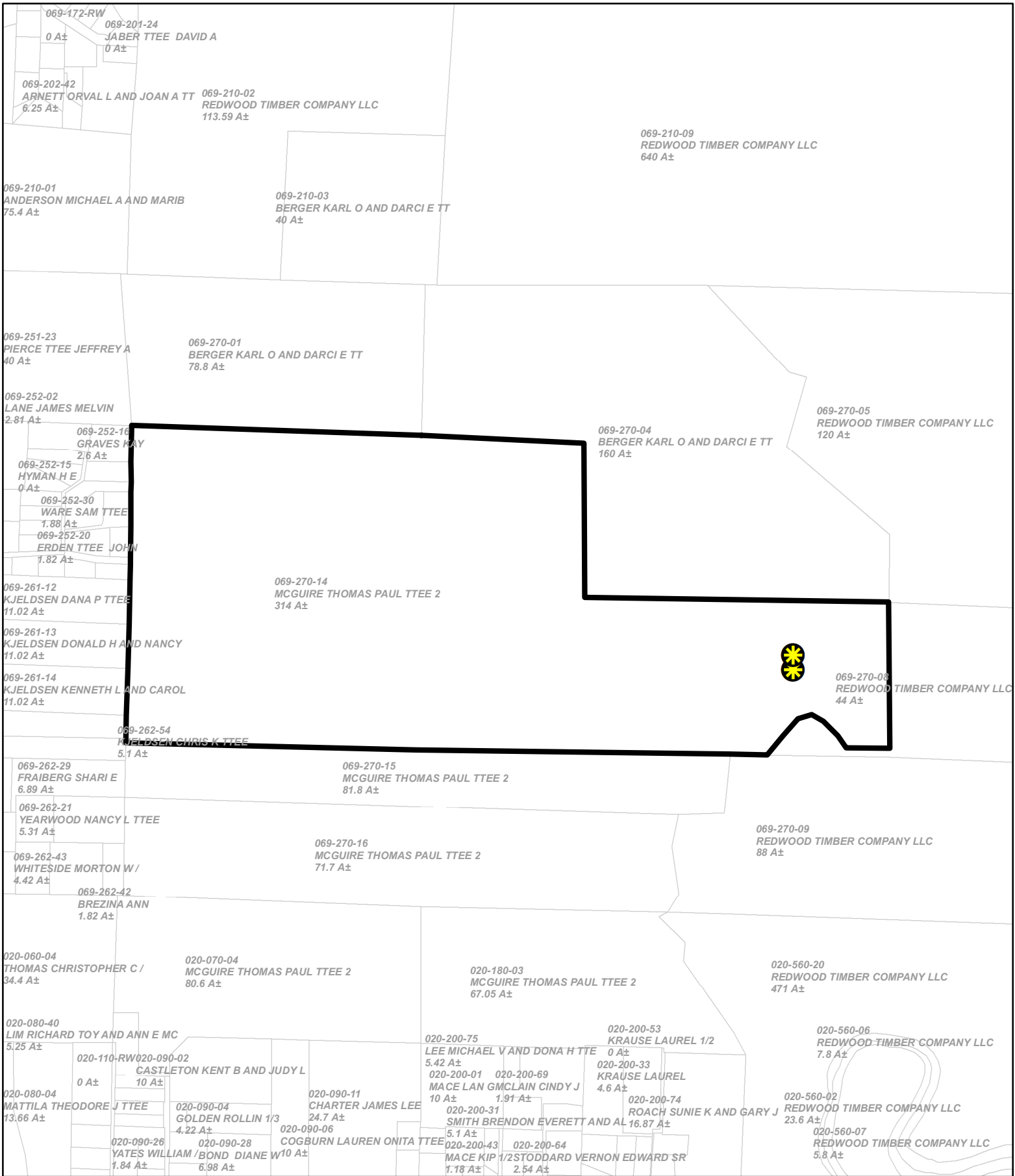
 Approved Wireless Sites





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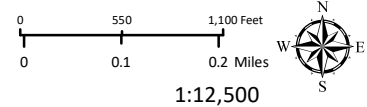
SCHOOL DISTRICT

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**OWNER: McGuire Family Trust**  
**APN: 069-270-14**  
**APLCT: T-Mobile West LLC**  
**AGENT: T-Mobile West LLC**  
**ADDRESS: 22501 Bald Hill Rd**

 Assessors Parcels  
 Approved Wireless Sites



1:12,500

**ADJACENT PARCELS**

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Resolution Number \_\_\_\_\_

County of Mendocino  
Ukiah, California

**NOVEMBER 14, 2024**

AP\_2024-0028 - T-MOBILE WEST LLC

RESOLUTION OF THE ZONING ADMINISTRATOR, COUNTY OF MENDOCINO, STATE OF CALIFORNIA, APPROVING A CATEGORICAL EXEMPTION AND GRANTING AN ADMINISTRATIVE PERMIT FOR THE ADDITION OF NEW EQUIPMENT TO AN EXISTING CELLULAR ANTENNA TOWER

WHEREAS, the permit holder, T-MOBILE WEST and Tihina Sintayehu, filed an application for an Administrative Permit with the Mendocino County Department of Planning and Building Services to authorize an eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one Commscope USX6-11W microwave dish, two Ceragon-Fibeair 1P-20A\_RFU-D-HP ODU, two Amphenol-Duplex Armor I/O MW line, 2 Amphenol-2CX14AWG MW line, one 2" Innerduct, Commscope-RM-DM-6 with modifications per mount analysis by Tylon, 3± miles northeast of the City of Fort Bragg, lying on the east side of Bald Hill Road (CR 421A), located 1.95± miles northeast of its intersection with Pudding Creek Road (CR 421); located at 21929 Bald Hill Rd., Fort Bragg; APN: 069-270-14; General Plan RL:160; Zoning RL-160; Supervisorial District 4; (the "Project"); and

WHEREAS, a categorical exemption was prepared for the Project and noticed and made available for agency and public review on October 31, 2024, in accordance with the California Environmental Quality Act (CEQA) and the State and County CEQA Guidelines; and

WHEREAS, in accordance with applicable provisions of law, the Zoning Administrator held a public hearing on November 14, 2024, at which time the Administrative Permit application was heard and received all relevant testimony and evidence presented orally or in writing regarding the categorical exemption and the Project. All interested persons were given an opportunity to hear and be heard regarding the categorical exemption; and

WHEREAS, the Zoning Administrator has had an opportunity to review this Resolution and finds that it accurately sets for the intentions of the Zoning Administrator regarding the categorical exemption and the Project.

NOW, THEREFORE, BE IT RESOLVED, that the Zoning Administrator, based upon the evidence in the record before it, makes the following findings;

**1. General Plan and Zoning Findings:** The property has a General Plan designation of Rangeland (RL: 160) and is zoned Rangeland 160 acre minimum (RL-160).

The Project would not interfere with the agricultural viability of the property because the facility modifications would not convert agricultural land to another use. All modifications would occur within the existing leased area. The overall Wireless Telecommunication Facility use was established and approved for renewal under prior use permits. Therefore, the Project is consistent with the intent of the RL:160 classification. The proposed project is also supported by General Plan Policy DE-206 which directs the County to *"encourage appropriate utility infrastructure necessary to support social and economic needs including wired, wireless, and satellite communications."*

As noted above, the Project would not interfere with the agricultural viability of the property. As such, the intent of the R-L district would be preserved. The wireless communication facility uses and structures

were established under prior use permits, including an increased height of the tower beyond the ordained R-L district height limit. The proposed modifications would not substantially change the physical dimensions of the existing facility, and thus are consistent with the existing use and structures. The proposed modifications conform to the requirements of the R-L district because the modifications would not increase the height of the existing tower, would not encroach upon any setbacks, and would not increase residential density.

## **2. Administrative Permit Findings:**

- a. *That the establishment, maintenance or operation of a use or building applied for is in conformity to the General Plan.*

Policy DE-4 of the Mendocino County General Plan states in part: “Zoning shall be consistent with this General Plan...” The Rangeland zoning designation of the subject property (RL-160) is consistent with the Rangeland General Plan designation (RL: 160). As such this project is consistent with the Mendocino County General Plan.

- b. *That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided;*

Adequate utilities, access roads, drainage, and other necessary facilities have been or are being provided. All proposed modifications would be located on the existing tower, ancillary equipment, or within the existing compound area. The facility does not require a water supply or sewage disposal system. Adequate utilities and facilities were established when the wireless communication facility was first permitted, and staff has found that the site continues to comply with the ongoing conditions of approval contained in prior entitlements

- c. *That such use will not, under the circumstances of that particular case constitute a nuisance or be detrimental to the health, safety, peace, morals, comfort or general welfare of persons residing or working in or passing through the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the county; provided, that if any proposed building or use is necessary of the public health, safety or general welfare, the finding shall be to that effect.*

Such use will not, under the circumstances of this particular case, constitute a nuisance or be detrimental to the health, safety, peace, morals, comfort, or general welfare of persons residing or working in or passing through the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the county. The proposed modifications would not substantially change the physical dimensions of the tower. The Project is not expected to utilize any hazardous materials or generate substantial noise

- d. *That such use preserves the integrity of the zoning district.*

Such use preserves the integrity of the zoning district. As shown in the submitted plans, the Project conforms to the requirements of the Rangeland (RL-160) zoning district and prior entitlements, including setbacks, height limit, and residential density. The Project preserves the integrity of the zoning district because Project activities would be limited to the existing compound area and would not encroach upon other portions of the property. The project would be limited to the existing compound area. Therefore, additional agricultural or residential land would not be converted to non-agricultural or non-residential use.

**3. Environmental Protection:** The project has been determined to be categorically exempt from CEQA per Section 15304 (e), Class 4, which allows “*Minor temporary use of land having negligible or no permanent effects on the environment, including carnivals, sales of Christmas trees etc.*”.



## EXHIBIT A

### CONDITIONS OF APPROVAL

AP\_2024-0028 - T-MOBILE WEST LLC

NOVEMBER 14, 2024

**APPROVED PROJECT DESCRIPTION:** An eligible facilities request for modifications to an existing wireless communication facility that includes the installation of one Commscope USX6-11W microwave dish, two Ceragon-Fibeair 1P-20A\_RFU-D-HP ODU, two Amphenol-Duplex Armor I/O MW line, 2 Amphenol-2CX14AWG MW line, one 2" Innerduct, Commscope-RM-DM-6 with modifications per mount analysis by Trylon.

**Previous Use Permit Renewal (UR\_2023-0008) Conditions:**

#### **CONDITIONS OF APPROVAL:**

1. This action shall become final on the 11<sup>th</sup> day following the decision unless an appeal is filed pursuant to Section 20.208.015 of the Mendocino County Code. This permit shall become effective after the ten (10) day appeal period has expired and no appeal has been filed.
2. **This permit shall expire on May 17, 2032.** The applicant has the sole responsibility for submitting a completed application for a use permit renewal before the expiration date. **The County will not provide a notice prior to the expiration date.**
3. The use and occupancy of the premises shall be established and maintained in conformance with the provisions of Title 20 of the Mendocino County Code.
4. The application along with supplemental exhibits and related materials shall be considered elements of this entitlement and compliance therewith shall be mandatory, unless a modification has been approved by the Planning Commission.
5. This permit shall be subject to revocation or modification by the Planning Commission upon a finding of any one (1) or more of the following:
  - a. That the permit was obtained or extended by fraud.
  - b. That one or more of the conditions upon which the permit was granted have been violated.
  - c. That the use for which the permit was granted is conducted in a manner detrimental to the public health, welfare, or safety, or is a nuisance.
  - d. A final judgement in a court of competent jurisdiction has declared one or more conditions to be void or ineffective or has enjoined or otherwise prohibited the enforcement or operation of one or more such conditions.
6. This permit is issued without a legal determination having been made upon the number, size, or shape of parcels encompassed within the permit boundaries. Should, at any time, a legal determination be made that the number, size, or shape of parcels within the permit boundaries are different than that which is legally required by this permit, this permit shall become null and void.
7. This permit shall be subject to the securing of all necessary permits for the proposed project from County, State, and Federal agencies having jurisdiction.

8. This permit shall be subject to the applicable conditions of approval set forth in the previous governing Use Permit UM 12-2002/2012. Within 30 days of approval, the applicant shall submit to Planning and Building Services a signed letter of acknowledgement stating that they have read all Conditions of Approval for this permit as well as previously approved Use Permits and that this project will be consistent with all applicable conditions.
9. The applicant shall provide an updated irrevocable letter of credit, bond, certificate of deposit, or other reasonable form of security satisfactory to County Counsel, sufficient to fund the removal of the facility and restoration of the site in the event that the applicant abandons operations or fails to comply with requirements for removal of facilities and restoration of the site.
10. Future modifications to the subject facility shall conform to the Wireless Communication Facilities Development Guidelines adopted by the Board of Supervisors on August 4, 2015, unless conditionally approved by modification of this governing permit and shall be considered cumulatively to determine if request constitutes a "substantial change" to the facility under applicable federal law.

**Administrative Permit (AP\_2024-0028) conditions:**

1. This action shall become final on the 11th day following the decision unless an appeal is filed pursuant to Section 20.208.015 of the Mendocino County Code. The permit shall become effective after the ten (10) working day appeal period to the Board of Supervisors has expired and no appeal has been filed with the Clerk of the Board. The permit shall expire and become null and void at the expiration of two years after the effective date except where construction and/or use of the property in reliance on such permit has been initiated prior to its expiration. Such permit vesting shall include approved permits associated with this project (i.e. building permits, septic permits, well permits, etc.) and physical construction in reliance of such permits, or a business license demonstrating establishment of a use proposed under this project.
2. The use and occupancy of the premises shall be established and maintained in conformance with the provisions of Division I of Title 20 of the Mendocino County Code.
3. To remain valid, progress towards completion of the project must be continuous. The Applicants have sole responsibility for renewing this application before the expiration date. The County will not provide a notice prior to the expiration date.
4. The application, along with supplemental exhibits and related material, shall be considered elements of this permit, and that compliance therewith is mandatory, unless an amendment has been approved by the Zoning Administrator.
5. This permit shall be subject to the securing of all necessary permits for the proposed development from County, State and Federal agencies having jurisdiction.
6. All Expired Building permits for modifications to the existing telecommunications facility must be reinstated and finalized for compliance with Building Regulations and Mendocino County Code. Additionally, any expired building applications must either be canceled, if the work was not completed with outstanding fees paid, or reinstated and issued to legalize past work to the facility.
7. This permit shall be subject to revocation or modification upon a finding of any one or more of the following:
  - a. The permit was obtained or extended by fraud.
  - b. One or more of the conditions upon which the permit was granted have been violated.

- c. The use for which the permit was granted is conducted so as to be detrimental to the public health, welfare or safety, or to be a nuisance.
  - d. A final judgment of a court of competent jurisdiction has declared one or more conditions to be void or ineffective or has enjoined or otherwise prohibited the enforcement or operation of one or more such conditions.
- 8. This permit is issued without a legal determination having been made upon the number, size or shape of parcels encompassed within the permit described boundaries. Should, at any time, a legal determination be made that the number, size or shape of parcels within the permit described boundaries are different than that which is legally required by this permit, this permit shall become null and void.
- 9. If any archaeological sites or artifacts are discovered during site excavation or construction activities, the property owner shall cease and desist from all further excavation and disturbances within 100 feet of the discovery and make notification of the discovery to the Director of the Department of Planning and Building Services. The Director will coordinate further actions for the protection of the archaeological resources in accordance with Section 22.12.090 of the Mendocino County Code.
- 10. Conditions approving this administrative permit shall be attached to or printed on any building permit application and shall be a part of on-site construction drawings.
- 11. This permit is subject to the applicable conditions of approval set forth in Use Permit Renewal UR\_2023-0008 including, but not limited to the following:
- 12. Exterior light fixtures shall be designed or located so that only reflected, non-glaring light is visible from beyond the immediate vicinity of the site and shall be turned off except when in use by facility personnel.
- 13. The facility shall provide, if requested, space for any emergency service provider to locate communication equipment on the tower, provided no interference to function will result at a minimum or no fee.
- 14. Existing trees and other vegetation, which provide screening for the facility and associated access roads, shall be protected from damage. No trees that provide visual screening of the communications facility shall be removed after project completion except to comply with fire safety regulations or to eliminate safety hazards. Tree trimming shall be limited to the minimum necessary for operation of the facility.
- 15. The antennas and supporting structure shall be inspected every ten years, and following significant storm or seismic events, by a structural engineer licensed in the State of California to assess their structural integrity, and a report of the engineer's findings shall be submitted to the Planning and Building Services Department.
- 16. The applicant shall submit to Planning & Building Services within 30 days of approval a signed letter of acknowledgement stating that they have read all Conditions of Approval for the previously approved Use Permit and Administrative Permits and that the project will be consistent with all conditions.
- 17. Increases or changes to hazardous materials stored on-site shall be submitted to the California Environmental Report System within 30 days.
- 18. Future modifications shall be considered cumulatively to determine if the request constitutes a "substantial change" to the facility under applicable federal law.

19. If the Wireless Communication Facility should cease operation or the facility be abandoned for a period exceeding one year or more, the use shall be deemed invalid, and a new Use Permit shall be required to resume operation of a wireless communication facility.