

Hearing Date:

COUNTY OF HUMBOLDT

PLANNING AND BUILDING DEPARTMENT CURRENT PLANNING DIVISION

3015 H Street, Eureka CA 95501 Phone: (707)445-7541 Fax: (707) 268-3792

To: Humboldt County Zoning Administrator

July 15, 2021

From: Brian Millar, Contract Planner

Subject: AT&T, Conditional Use Permit for New 150-Foot Tall Faux Mono-Pine Tower

Record Number PLN-2020-16854

Assessor's Parcel Numbers (APN) 209-291-001, 209-291-017 & 209-351-022

28101 Avenue of the Giants, Redcrest area

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Please contact Brian Millar by phone at (530) 902-9218 or by email, <u>brian@landlogistics.com</u>, if you have any questions about the scheduled public hearing item.

AGENDA ITEM TRANSMITTAL

Hearing Date	Subject	Contact
July 15, 2021	Conditional Use Permit for New 150-Foot	Brian Millar, Contract Planner
	Tall Faux Mono-Pine Tower	

Project Description: The project is a Conditional Use Permit application proposing the construction of a new 150-foot tall faux mono-pine tower with ground-mounted equipment. The tower would be able to host up to four different wireless carriers.

Project Location: The project is located in the Redcrest area, on the north side of Avenue of the Giants, approximately 1,200 feet northwest from the intersection of Avenue of the Giants and Holmes Flat Road, on the property known as Assessor Parcel Numbers 209-291-001, 209-291-017 & 209-351-022.

Present Plan Land Use Designation: Agricultural Exclusive (AE), Density: Range is 20 to 60 acres per unit; Conservation Floodway (CF), Density: N/A; Commercial Recreation (CR), Density: N/A; Avenues Community Planning Area: Stafford-Redcrest (AVES), 2017 General Plan, Slope Stability: Low Instability (1) and Moderate Instability

Present Zoning: Agriculture Exclusive (AE), Flood Hazard Areas (F); Flood Plain (FP); Flood Plain (FP), Qualified (Q)

Assessor Parcel Numbers: 209-291-001, 209-291-017 & 209-351-022.

Record Number: PLN-2020-16854

ApplicantOwnersAgentNew Cingular Wireless PCS The Last Redwood Corp.
(At&T Mobility)EPIC Wireless Group, LLC(at&T Mobility)c/o Dean LewisCarl JonesTaylika Logan Banks1 Parkside Drive605 Coolidge Drive, Suite 1005001 Executive Parkway,
4W550FFortuna, CA 95540Folsom, CA 95630

San Ramon, CA 94583

Environmental Review: Categorical Exemption, Class 3

Major Issues: None.

State Appeal Status: Project is not appealable to the California Coastal Commission.

AT&T, Conditional Use Permit Record Number: PLN-2020-16854 Assessor's Parcel Numbers: 209-291-001, 209-291-017 & 209-351-022

Recommended Action

- 1. Describe the application as part of the Consent Agenda;
- 2. Survey the audience for any person who would like to discuss the application;
- 3. If no one requests discussion, make the following motion to approve the application as part of the consent agenda:

Find that the Planning Commission has considered the Categorical Exception for the project as described by Section 15303 of the State CEQA Guidelines; make the required findings for approval of the Conditional Use Permit; and approve the New Cingular Wireless PCS Conditional Use Permit as recommended by staff and subject to the recommended conditions.

Executive Summary:

The proposed project consists of a Conditional Use Permit application for the construction of a new 150-foot tall, freestanding tower (faux tree "mono-pine"), to be located on a concrete foundation and with ground-mounted equipment. The mono-pine would be able to host up to four different wireless carriers. The facility would be located within a 40 x 40-ft fenced groundlease area, located approximately 85 ft from the east property line, 20 ft from the north property line, and 540 ft from the south property line, north of the Avenue of the Giants (State Highway 254) frontage. No trees would be removed as part of the project, as the 40 x 40 ft project footprint would be located within a flat, previously-graded agricultural driveway area south of the entry access roadway (Homes Road). The current use of the site is agricultural and recreation (including the Ancient Redwoods RV Park, the "Immortal Tree" redwood tree, and gift shop, all located on the southwest portion of the project site). Access to the tower facility would be from a gated driveway connection to Holmes Road to the north. The mono-pine would be 150 feet in height, using a freestanding, faux pine tree design. The wireless facility would include antennas (4 groupings of 12 antennas, placed at the upper reaches of the tower, and capable of supporting 4 wireless providers). The 40 x 40-ft ground-lease area would be enclosed with a 6-ft tall chain link fence topped with barbed wire. The tower would be located in the fenced area, along with equipment cabinets and equipment pads, fuel tank and a standby future generator (will only run during routine testing or during an emergency loss of power). Noted is that the equipment shelter, fuel tank and generator are proposed to be placed atop a 15 ft-5 in tall steel platform that is 12 x 24 ft (288 sa ft) in size; the platform would allow for elevation of key equipment above the floodplain affecting the project site. The 8 x 8 ft equipment shelter would be approximately 9 ft tall, with the generator 7 ft- 6 in high and its exhaust pipes 12 ft above the platform.

Several key issues were analyzed in developing the staff recommendation for this project. This includes the application of federal rules governing mandatory timeframes for review and decision on a discretionary permit for new wireless communications facilities.

<u>Issue #1: Tower Height, Aesthetics, and Coverage Objectives</u>

The applicant submitted a coverage map showing the areas for which the proposed facility would improve in-building service for locations within the Redcrest area. The 150-foot tall tower would accommodate co-location involving up to four different wireless providers. The tower is not located within the view of a scenic highway; although no highways in the County are "officially designated"

as California State Scenic Highways, several state highways could be eligible for official designation, including Highway 101 and Highway 254. Highway 101 is located approximately 1,850 feet to the southwest, and Highway 254 approximately 830 feet to the south.

The closest off-site residence from the tower is located approximately 160 ft northeast from the proposed tower location, with another residence approximately 460 ft to the east. These locations would have views of the tower, with the closest residence only having partial screening of the tower by a tree along roadway edge. The Eel River lies approximately 1,000 ft to the north. The Ancient Redwoods RV Park and gift shop is located on the project site, across Chadd Creek and approximately 550 ft south of the proposed tower location.

The County has previously been supportive of both stealthed and un-stealthed facilities include several co-locators. The original project design called for a 150-ft lattice tower to be located on the west side of the project site. The applicant subsequently amended the application to provide for a faux mono-pine 150-ft tall tower near the east edge of the project site. Staff supports the proposed use of the faux mono-pole design, which is intended to better blend with the forested and agricultural setting, and to reduce visual intrusion to the residences to the north and east. Noted is that the mono-pole design would be located in an area that generally consists of open fields, with the closest redwood forested area located approximately 200 ft to the east.

The County's Telecommunications Element of the General Plan requires an alternative analysis shall be provided at the time of application that documents why the project as proposed is the best way to accomplish project alternatives while minimizing project impacts. In response, the applicant analyzed four potential alternative tower locations and a colocation site, west and east of the project site. Details of this analysis and area coverage maps are attached to this report. The applicant also states that, regarding coverage objectives and tower height, "The location of a WCF to fill a significant gap in coverage is dependent upon topography, zoning, existing structures, collocation opportunities, available utilities, and access. Wireless communication is line-of-sight technology that requires WCFs to be in relatively close proximity to the wireless handsets to be served...AT&T investigated potential alternative sites for facilities to fill the identified coverage gap in this portion of Humboldt county. AT&T searched for, but did not find, feasible collocation opportunities and or existing structures in and around the coverage objective...The Proposed Facility is the best available design to minimize visual impacts in the area. The Proposed Facility is the least intrusive means to fill the significant gap of the alternatives investigated by AT&T." Staff supports these findings, with the proposed tower helping to close the area's service coverage gap for the local community and surrounding area.

Issue #2: Compliance with FCC RF Exposure Limits

To evaluate possible significant impacts to public exposure from Radio Frequency- Electromagnetic Energy (RF-EME), the County has typically required that applicants show that RF-EME from the facility are within adopted Federal standards.

The applicant prepared a study, with summary findings noting the following:

"Based on information provided by AT&T Mobility and predictive modeling, the (Redcrest) installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the (mono-pine) and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members

of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or in adjacent buildings by 5% of the General Population limits."

The Department prepared and circulated referrals to various agencies. All commenting agencies recommended approval or conditional approval. Planning staff has found that the project will not result in a significant impact on the environment as conditioned, and the applicant has provided sufficient evidence in support of making all of the required findings for approving the Conditional Use Permit. Noted is that on-site grading has occurred, under County permit, on lands immediately south of the proposed tower location; a proposed condition of approval addresses completion of the grading work prior to tower construction.

RECOMMENDATION:

Based upon the on-site inspection, a review of Planning Division reference sources, and comments from all involved referral agencies, Planning staff has found that the project is Categorically Exempt from CEQA review, and that the applicant has submitted evidence in support of making all of the required findings for approving the proposed 150-foot tall faux mono-pine tower Conditional Use Permit per the Recommended Planning Commission Action.

Alternative: The Planning Commission could recommend denial of the proposed Conditional Use Permit if the Planning Commission finds that the submitted evidence does not support making all of the required findings. However, based on this staff report, planning staff believes the submitted evidence does support making all of the required findings and does not recommend further consideration of this alternative.

RESOLUTION OF THE PLANNING COMMISSION OF THE COUNTY OF HUMBOLDT Resolution Number 21-

Record Number PLN-2020-16854

Assessor Parcel Numbers: 209-291-001, 209-291-017 & 209-351-022

Resolution by the Planning Commission of the County of Humboldt certifying compliance with the California Environmental Quality Act and conditionally approving the AT&T Conditional Use Permit.

WHEREAS, **AT&T** submitted an application and evidence in support of approving a Conditional Use Permit to allow for the construction of a new 150-foot tall freestanding faux mono-pine tower to be located with ground-mounted equipment, with the ability to support four wireless carriers; and

WHEREAS, the County Planning Division, the lead agency, has determined that the project is exempt from review pursuant to Section 15303 of the CEQA Guidelines (New Construction or Conversion of Small Structures); and

WHEREAS, the Humboldt County Planning Commission held a duly noticed public hearing on **July 15**, **2021**; reviewed, considered, and discussed the application for a Conditional Use Permit; and reviewed and considered all evidence and testimony presented at the hearing.

Now, THEREFORE BE IT RESOLVED, that the Planning Commission makes all the following findings:

1. FINDING:

Project Description: The proposed project consists of a Conditional Use Permit application for the construction of a new 150-foot tall, freestanding tower (faux tree "mono-pine"), to be located on a concrete foundation and with ground-mounted equipment. The mono-pine would be able to host up to four different wireless carriers. The facility would be located within a 40 x 40-ft fenced ground-lease area, located approximately 85 ft from the east property line, 20 ft from the north property line, and 540 ft from the south property line, north of the Avenue of the Giants (State Highway 254) frontage. No trees would be removed as part of the project, as the 40 x 40 ft project footprint would be located within a flat, previously-graded agricultural driveway area south of the entry access roadway (Homes Flat Road). The current use of the site is agricultural and recreation (including the Ancient Redwoods RV Park, the "Immortal Tree" redwood tree, and gift shop). Access to the tower facility would be from a gated driveway connection to Holmes Road to the north. The mono-pine would be 150 feet in height, using a freestanding, faux pine tree design. The wireless facility would include antennas (4 groupings of 12 antennas, placed at the upper reaches of the tower, and capable of supporting 4 wireless providers). The 40 x 40-ft ground-lease area would be enclosed with a 6-ft tall chain link fence topped with barbed wire. The tower would be located in the fenced area, along with equipment cabinets and equipment pads, fuel tank and a standby future generator (will only run during routine testing or during an emergency loss of power). Noted is that the equipment shelter, fuel tank and generator are proposed to be

placed atop a 15 ft-5 in tall steel platform that is 12×24 ft (288 sq ft) in size; the platform would allow for elevation of key equipment above the floodplain affecting the project site. The 8 x 8 ft equipment shelter would be approximately 9 ft tall, with the generator 7 ft- 6 in high and its exhaust pipes 12 ft above the platform.

EVIDENCE: a) Project File: PLN-2020-16854

2. FINDING: CEQA: The requirements of th

CEQA: The requirements of the California Environmental Quality Act have been met.

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a)

EVIDENCE:

The County Planning Division, the lead agency, has determined that the project is exempt from review pursuant to Section 15303 of the CEQA Guidelines (New Construction or Conversion of Small Structures) because the project is being undertaken by a regulated public utility with the purpose of increasing wireless coverage by filling gaps in the area's cellular network through construction of a new cellular tower (faux mono-pine). The tower will be of sufficient height to support co-location by up to four wireless carriers.

The proposed tower location 40 x 40 ft ground lease space and access driveway have been previously disturbed by grading and agricultural activities.

3. **FINDING:** The proposed development is in conformance with the County General Plan. Telecommunications Element provisions include:

EVIDENCE: a) §6.5 F: Design and Screening.

1)Support structures shall be designed and painted to minimize visibility with a preference towards each of the following in the order so listed: 1) use of existing structures, 2) stealth designs for concealment, and 3) monopoles.

The proposed tower utilizes a stealth design, faux mono-pine tower, to better blend with the surrounding rural residential and agricultural area. The tower will be able to accommodate four wireless carriers.

2)Component parts, equipment cabinets, buildings and security fencing shall be designed to achieve a minimum profile through painting, screening, landscaping, and architectural compatibly with surrounding structures.

The proposed tower utilizes a stealth design (faux mono-pine).

3)Photo simulations or balloon tests with views form various vantage points shall be used to show visual impact of the proposed facility.

Photo simulations are furnished in the attachments.

§6.5 E., Location and siting:

1) Avoid siting along ridgelines unless screened from public view

2) Avoid siting within views of scenic highways, public parks, recreation or cultural facilities or other public lands and coastal scenic or view areas

3)Setbacks shall be required between telecommunication facilities and residential dwelling units, public or private schools, and child daycare facilities.

The proposed tower utilizes a stealth design, faux mono-pine, to better blend with the surrounding rural residential and agricultural area and to reduce visual intrusiveness of the tower from off-site residences. The project site is not near a designated scenic highway.

§6.5 A: Tiered Permitting: "Utilize permit processes that vary depending upon the physical characteristics of the facility, its location, and its compliance with specific development and performance standards"

The project would be subject to compliance with County development standards and Conditional Use Permit conditions of approval.

§6.5 B., Performance Standards: "Standards for siting design, visibility, construction impacts, on-going operation, and other characteristics that affect the compatibility and environmental and safety impacts of proposed facilities."

The project would be subject to compliance with conditions of approval, addressing project construction as well as on-going operations and maintenance.

b) The project complies with the County's Housing Element as it will not add to nor subtract from the County Housing Inventory. No housing is located on the project site, which is in agricultural and recreational use.

4. FINDING:

The proposed development is consistent with the purposes of the existing zone in which the site is located, and the proposed development conforms to all applicable standards and requirements of these regulations.

EVIDENCE:

- a) Ordinance 2209, implementing Ordinance for the Avenue of the Giants Community Plan, identifies that any commercial or industrial operations may be permitted with Conditional Use Permit approval.
- b) The proposed tower would be located on lands designated FP-Q, which require a CUP prior to development of non-agricultural uses. Provisions of the Community Plan state, "Considerations in issuing a Conditional Use Permit include minimizing impacts to adjacent agricultural lands and neighbors, and whether access to the area should be allowed off Holmes Flat Road or should be restricted to the south side of Chadd Creek, requiring a bridge."

The applicant states that the new tower will help address existing gaps in wireless coverage for the area. The faux mono-pine

design will help blend the visibility of the tower with the forested surrounding area and reduce aesthetic intrusiveness of what otherwise could be a standard freestanding lattice tower or onopole design.

- c) The proposed tower location meets all required setbacks, including 20 ft from the front and side property lines, and 10 ft from the rear property lines. As proposed the equipment platform would be no closer to any property line than approximately 30 ft (from the north, entry driveway location), and with the tower footprint approximately 45 ft from the north property line.
- d) The proposed project is consistent with County policies and standards for new telecommunications facilities, including with respect to co-location of telecommunications facilities; facility design; ongoing operations; and consideration of alternative locations to provide necessary wireless coverage.

5. FINDING:

The proposed development and conditions under which it may be operated or maintained will not be detrimental to the public health, safety, or welfare; or materially injurious to property or improvements in the vicinity.

EVIDENCE: a)

All referral agencies that have reviewed the project recommended approval or conditional approval of the proposed development. The proposed use is located in an FP-Q zone, and allows the use subject to approval of a Conditional Use Permit. The project would be subject to obtaining County approval of a building permit, and would include review of engineer-designed construction plans. The applicant will be required to design the ground-mounted equipment in compliance with the provisions of the Flood Damage Prevention Ordinance. The structural integrity of the tower will be monitored as required by the conditions of approval. The project will be required to comply with federallymandated thresholds for human exposure to radio frequency emissions. The project, as proposed and pursuant to the Conditional Use Permit conditions of approval, will minimize aesthetic impacts through use of appropriate tower design (faux tree). A condition of approval also addresses the need for the applicant to finalize any remaining issues related to the grading of lands immediately south of the proposed tower location prior to tower construction.

6. FINDING:

The proposed development does not reduce the residential density for any parcel below that utilized by the Department of Housing and Community Development in determining compliance with housing element law.

EVIDENCE: a) The project does not include any residential development. The site is zoned, planned for and in heavy industrial use.

DECISION

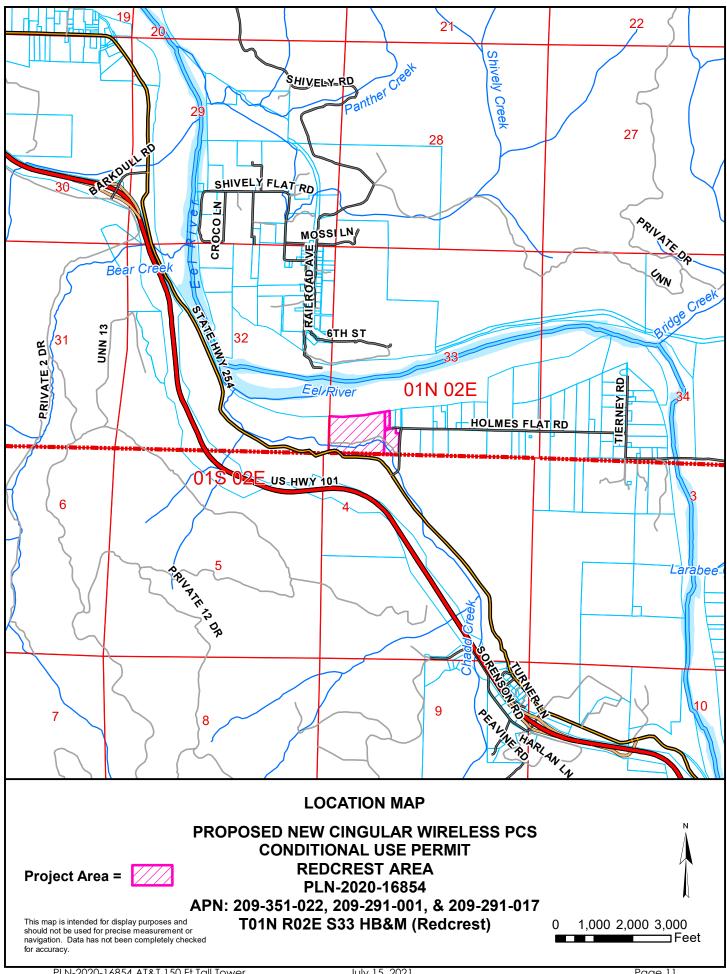
NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Zoning Administrator does hereby:

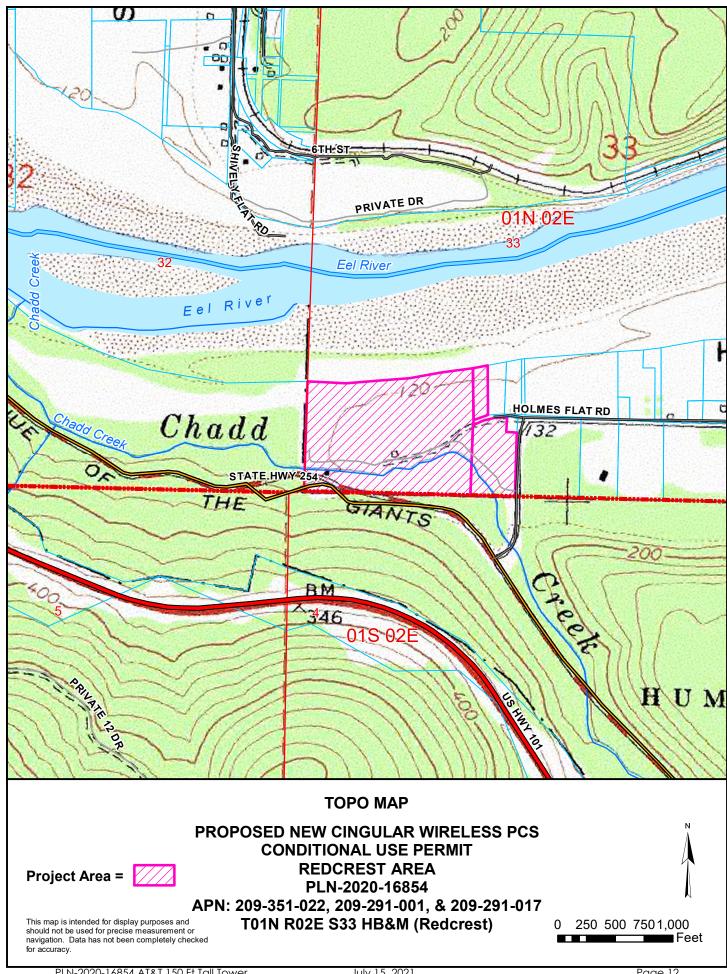
- Adopt the findings set forth in this resolution; and
- Conditionally approves the Conditional Use Permit, based upon the Findings and Evidence and subject to the conditions of approval attached hereto as Attachment 1 and incorporated herein by reference; and

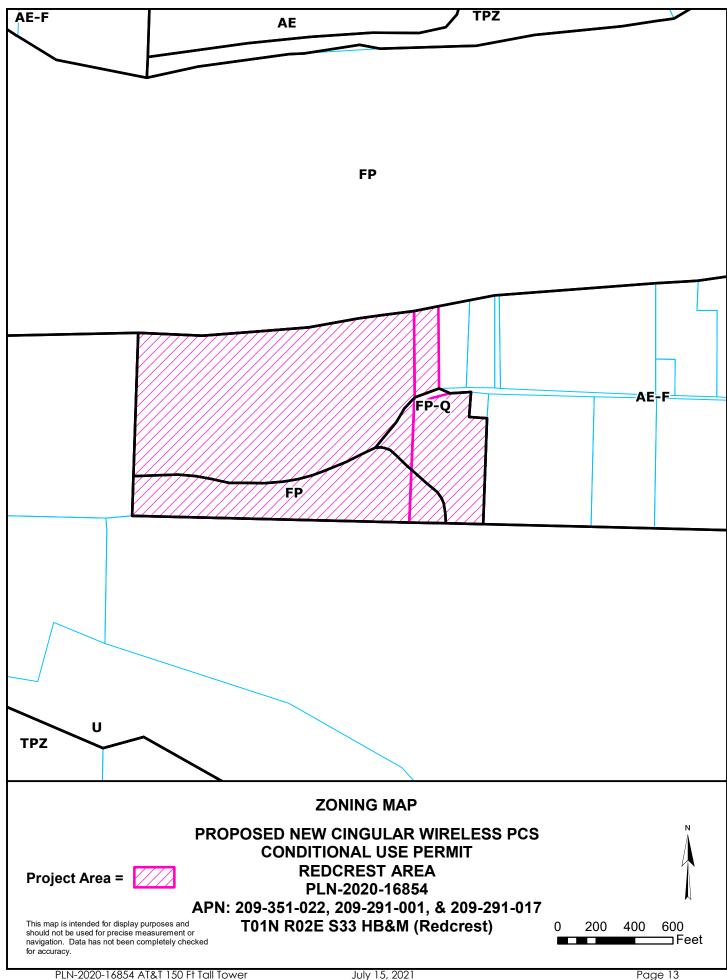
Adopted after review and consideration of all the evidence on July 15, 2021.

I, John H. Ford, Secretary to the Zoning Administrator of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above entitled matter by said Zoning Administrator at a meeting held on the date noted above.

John H. Ford, Zoning Administrator, Planning and Building Department









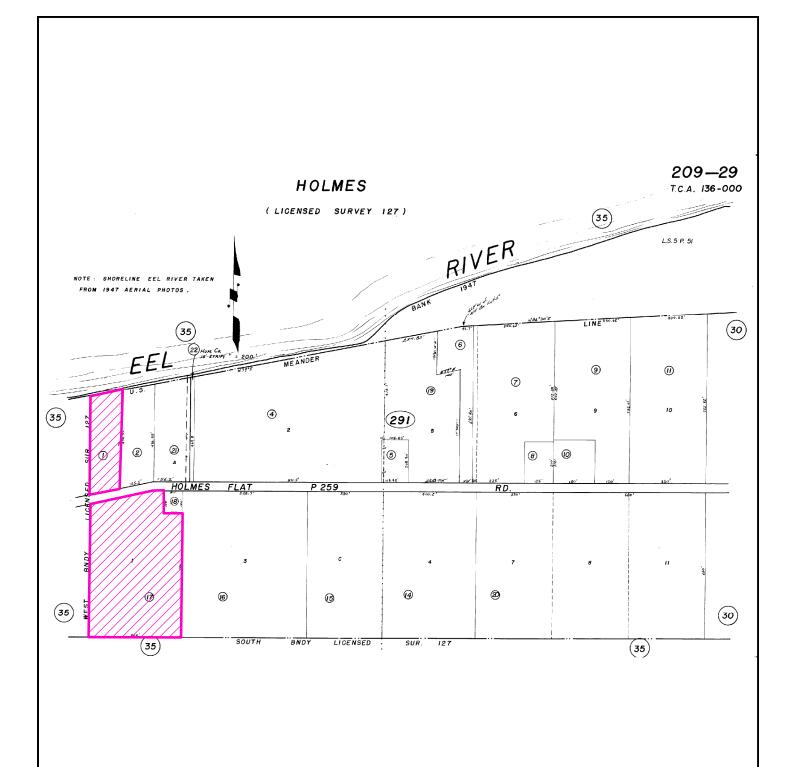
AERIAL MAP

PROPOSED NEW CINGULAR WIRELESS PCS
CONDITIONAL USE PERMIT
REDCREST AREA
PLN-2020-16854

Project Area =

APN: 209-351-022, 209-291-001, & 209-291-017 T01N R02E S33 HB&M (Redcrest)

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.



ASSESSOR PARCEL MAP

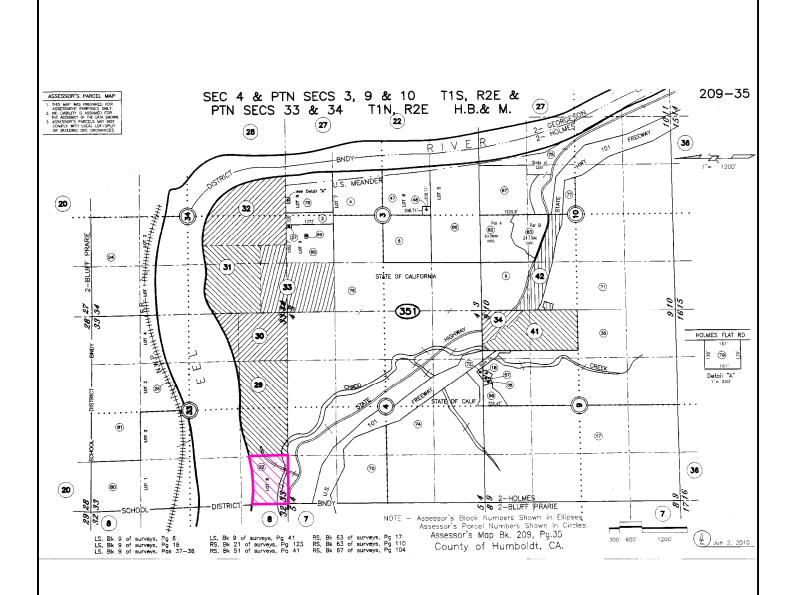
PROPOSED NEW CINGULAR WIRELESS PCS CONDITIONAL USE PERMIT REDCREST AREA PLN-2020-16854 APN: 209-351-022, 209-291-001, & 209-291-017

T01N R02E S33 HB&M (Redcrest)

This map is intended for display purposes and should not be used for precise measurement or navigation. Data has not been completely checked for accuracy.

Project Area =





ASSESSOR PARCEL MAP

PROPOSED NEW CINGULAR WIRELESS PCS
CONDITIONAL USE PERMIT
REDCREST AREA
PLN-2020-16854

Project Area =

APN: 209-351-022, 209-291-001, & 209-291-017 T01N R02E S33 HB&M (Redcrest)

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MAP NOT TO SCALE

ATTACHMENT 1

RECOMMENDED CONDITIONS OF APPROVAL

Conditions of Approval for the Conditional Use Permit

APPROVAL OF THE PERMITS IS CONDITIONED ON THE FOLLOWING TERMS AND REQUIREMENTS

Conditions of Approval:

- 1. The project shall be developed, operated and maintained in accordance with the approved Project Description, Site Plan, Operations Plan, and these Conditions of Approval. Changes to the project other than Minor Deviations as provided in §312-11.1 HCC shall require modification of this permit.
- 2. Applicant/Owner shall submit plans by a California-licensed engineer for the Building Permit. Building plans submitted shall be consistent with conditions of approval that have been approved by the Planning Commission. As part of permitting, the applicant will be required to design the ground-mounted equipment in compliance with the provisions of the Flood Damage Prevention Ordinance.
- 3. Prior to grading or building permit issuance for the proposed tower project, the applicant shall finalize any outstanding issues related to the County's previous issuance of the grading permit (pursuant to 2018 engineered plans) for the lands immediately south of the proposed tower location, including planting requirements.
- 4. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
- 5. A Notice of Exemption (NOE) will be prepared and filed with the County Clerk for this project in accordance with the State CEQA Guidelines. Within three days of the effective date of permit approval, it is requested that the applicant submit a check or money order for the required filing fee in the amount of \$50 payable to the Humboldt County Clerk/Recorder. If this payment is not received within this time period, the Department will file the NOE and will charge this fee to the project.
- 6. The applicant is responsible for receiving all necessary permits and/or approvals from other federal, state and local agencies, including the Federal Aviation Administration.
- 7. All work subject to Construction and Demolition and Inert debris as provided in California Code of Regulations T14 Chapter 5, Articles 5.9 (Transfer/Processing) and 6.0 (Disposal) will be performed in compliance with those regulations.
- 5. Before the import of any Construction and Demolition and Inert debris (CDI) not generated by the demolition or construction on any parcel subject to this project, the applicant will consult with DEH Solid Waste Local Enforcement Agency (LEA) program staff for regulatory parameters.

- 6. Before building permit final inspection and sign-off, the Applicant shall request an inspection by the Planning Department. The Review for Conformance with Conditions fee shall be paidupon request of the inspection. This fee is in accordance with the County's adopted Schedule of Fees and Charges.
- 7. The new faux mono-pine tower and appurtenances, as well as the equipment mounted on the elevated platform, shall be fabricated or painted in a dark green or similar color that generally blends with the surrounding forest lands so as to minimize the tower profile and visual impacts. The final color(s) used shall be approved by the Planning Director.
- 8. Prior to County issuance of a building permit for the project, the property owner shall designate an easement for provision of a pedestrian trail leading from the property frontage along Avenue of the Giants, along the west edge of the property, or from Holmes Flat Road northward to the Eel River, consistent with the provisions of the Avenue of the Giants Community Plan and subject to review and approval of the Planning Director.
- 9. The exterior of the anti-climb chain link fencing shall have informational signage posted with emergency contact information and for access to restricted areas. The fence at the ground level shall include a brown or green slated chain link fence.
- 10. Ground disturbing construction and grading shall employ fugitive dust control strategies (e.g., watering or similar methods) to prevent visible emissions from exceeding North Coast Air Quality Management District (NCAQMD) regulations and prevent public nuisance. Dust control practices during construction and grading shall achieve compliance with NCAQMD fugitive dust emission standards.
- 11. The Conditional Use Permit shall expire and become null and void at the expiration of two (2) years after all appeal periods have lapsed (see "Effective Date"); except where use in reliance on the permit has commenced prior to such anniversary date. The period within which use must be commenced may be extended as provided by Section 312-11.3 of the Humboldt County Code.

On-going Requirements/Development Restrictions which Must be Satisfied for the Life of the Project:

- 1. The tower (faux tree "mono-pine"), appurtenances and any future panel or microwave dish antennas, including radomes, shall be maintained for the life of the project. The design and color(s) used shall be approved by the Planning Director.
- 2. All new and existing outdoor lighting within the lease area shall be compatible with the existing setting and directed downward and within the property boundaries.
- 3. Work/construction hours are between 8:00 am 5:00 pm, Monday Friday.
- 4. Routine generator testing shall be conducted during daylight hours between 9 am and 4 pm, Monday through Friday.
- 5. Applicant shall ensure that noise generated by the operations shall not exceed 55 Ldn at all property lines.
- 6. Applicant shall submit a request for Agency Review for substantial conformance on any proposed changes of the operation, including but not limited to additional users (co-location), and change of antennas/microwave dishes. The fee for this request is listed on the County of Humboldt Fees

- and Charges Worksheet, approved annually (typically December and implemented the next year) by the Board of Supervisors.
- 7. The applicant shall submit a report every five (5) years regarding the structural integrity of the tower to the satisfaction of the Building Inspection Division. The report shall be prepared and certified by a qualified licensed engineer. This condition will be administered by the Planning and Building Department Building Inspection Division.
- 8. In the event the permitted use of the communication tower has been discontinued for a period of 90 consecutive days, the tower shall be deemed abandoned. After a tower has been considered abandoned, the owner/applicant shall have an additional 90 days to reactivate the permitted use of the tower; or transfer the tower to another owner/operator who makes actual use of the tower. If use has not been reactivated within the prescribed time period, all approvals shall automatically expire. Within 12 months of tower being deemed abandoned, the tower shall be dismantled and removed to an approved location along with all appurtenant structures. Dismantlement and removal shall be the responsibility of the applicant and property owner.
- 9. The applicant shall contact the local fire service provider (Rio Dell Fire Protection District) and furnish written documentation from that agency of the available emergency response and fire suppression services and any recommended project mitigation measures. Mitigation measures shall be incorporated into the project, if applicable. If emergency response and fire suppression services are not provided, the applicant shall cause to be recorded an "ACKNOWLEDGMENT OF NO AVAILABLE EMERGENCY RESPONSE AND FIRE SUPPRESSION SERVICES" for the parcel(s) on a form provided by the Humboldt County Planning Division. Document review fees as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors will be required.

Informational Notes:

1. If buried archaeological, cultural or historical resources are encountered during construction activities, the contractor on-site shall call all work in the immediate area to halt temporarily, and a qualified archaeologist is to be contacted to evaluate the materials. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, dietary bone, and human burials. If human burial is found during construction, state law requires that the County Coroner be contacted immediately. If the remains are found to be those of a Native American, the California Native American Heritage Commission will then be contacted by the Coroner to determine appropriate treatment of the remains. The applicant is ultimately responsible for ensuring compliance with this condition.

The Native American Heritage Commission (NAHC) can provide information regarding the appropriate Tribal point(s) of contact for a specific area; the NAHC can be reached at (916)653-4082. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, groundstone artifacts, shellfish or faunal remains, and human burials. If human remains are found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at (707) 445-7242. If the Coroner determines the remains to be Native American, the NAHC will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to PRC 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99.

The applicant is ultimately responsible for ensuring compliance with this condition.

ATTACHMENT 2

Applicant's Evidence in Support of the Required Findings

Attachment 2 includes a listing of all written evidence which has been submitted by the applicant in support of making the required findings. The following materials are on file with the Planning Division:

- Application Form (in file)
- Map Set (Attached)
- Project Support Statement (Attached)
- Height Justification (**Attached**)
- Project Plans (Attached)
- Faux Mono-Pine Design (Attached)
- Photo-simulations (Attached)
- Alternative Sites Analysis (Attached)
- Competitive Coverage analysis (Attached)
- EME Radio Frequency study (Attached)
- Noise Assessment (Attached)

DATE: 11/19/2020

Humboldt County Planning Dept. 3015 H Street Eureka, CA 95501

Project Statement

Re: Proposed New AT&T Wireless Facility (cell site) Site Ref# CCL03946/ Larabee Located at: Ancient Redwoods RV Park 28101 Avenue of the Giants, Redcrest, CA 95569

APN's: 209-291-017-000

Introduction

Installation of a new AT&T unmanned wireless facility (cell tower). The proposed project consists of installing (1) New 150' (Co-locatable) stealth Monotree tower with (12) panel antennas, (1) microwave antenna and (18) (RRU's) remote radio units installed, and associated equipment mounted on the tower. Install (1) new 8.0' x 8.0' (WIC) walk in closet equipment shelter & backup generator inside a 40'x40' AT&T Lease Area.

Collaboration

AT&T seeks to fill a significant gap in service coverage using the least intrusive means under the values expressed in the Humboldt County Municipal Code ("Code").

AT&T seeks to meet the Code requirements and provide the best available design by placing this WCF in a (FP-Q) Use zone at the minimum height needed to address the significant service coverage gap.

Visual and Noise Considerations

AT&T'S engineering (Tower Manufacturer) have reviewed the proposed location to determine the appropriate type of tower, and in research suggest the proposed 150ft Monotree tower would have the least visual impact on the local area, blend best with the surroundings and provide the best camouflage and concealment for the proposed antennas.

Project Justification.

AT&T Wireless is currently improving the existing wireless network in the area of Recrest, Humboldt county. The new proposed Lattice tower and installation of AT&T's telecommunication equipment will improve wireless and broadband internet coverage for the local area and provide First Net capability. The First Net program also known as First Responders Network https://www.firstnet.gov/ is the country's first nationwide public safety communications platform dedicated to first responders. Being built with AT&T, in public-private partnership with the First Responder Network Authority AT&T seeks to engage and work with federal, state and local governmental agencies as part of FirstNet buildout to enhance coverage for first responders. Additionally, the improved network will provide an extremely valuable service to those who live, travel, and do business from home in the local area. It will give people the ability to call for emergency services in the event of an accident, the ability to communicate with employees or clients outside of the office, and the ability to communicate with family members when needed. The project engineer has indicated that the proposed location will provide the necessary coverage and capacity with the ability to hand off the wireless signal to the next telecommunications site. This will enable travelers and community members to have reliable and continuous wireless coverage.

- Operation of the project will occur 12 months a year, 7 days a week, 24 hours a day consistent with the continuous schedule of normal telephone company operations.
- The facility is "unmanned" and will be visited on an "as needed" basis only. No more than two technicians will attend the facility. Their schedule will be on a 24-hour basis. No more than two service vehicles, being either a van or a small pickup truck will visit the facility.
- The equipment located within AT&T's lease area will be used for telephone operations.
- There will be no supplies or materials stored on the site.
- There will be no noise, glare, dust or odors associated with the facility.
- The proposed on site 190 gallon diesel backup generator will <u>ONLY</u> run in the event of an emergency and for maintenance purposes approx. (1) time per month for approx. (20) to (30) mins. In the event of power outage, the generator has the capacity to power the site for up to (3) days before refueling is required.

Conclusion

AT&T would like to apply for a Use Permit for the project. The Proposed Facility is the least intrusive means by which AT&T can close its significant service coverage gap in this portion of the County. Denial of AT&T's application would materially inhibit AT&T's ability to provide and improve service in this portion of Humboldt county.

Sincerely,

Carl Jones

Carl Jones

Senior Project Manager

Epic Wireless Group LLC

(916) 798-2275 carl.jones@epicwireless.net



on behalf of



DATE: 11/19/2020

Humboldt County Planning Dept. 3015 H Street Eureka, CA 95501



Re: Proposed New AT&T Wireless Facility (cell site) Site Ref# CCL03946/ Larabee Located at: Ancient Redwoods RV Park 28101 Avenue of the Giants, Redcrest, CA 95569

APN's: 209-291-001-000, 209-291-017-000 and 209-351-022-000

Height Justification Statement

AT&T is proposing to install a new wireless telecommunication facility at the above referenced property. The project consists of installing a new 150ft lattice tower to close a service coverage gap that is caused by inadequate wireless infrastructure in the area.

To meet AT&T's coverage objectives, AT&T needs to construct a new wireless communications facility. Wireless telecommunication is a line-of-sight technology, and AT&T's antennas need to be high enough to propagate an effective signal throughout the service gap area. To meet its coverage objectives for this gap area, AT&T proposes to build a 150-foot-tall tower with antennas installed at a centerline height of 146 feet above ground level. Denial of this proposed facility or a reduction in height would materially inhibit AT&T's ability to provide and improve wireless services in this portion of the county.

Due to the topography in this rural heavily forested area of the county the proposed tower height of 150ft is essential for this site in order to reach as many homes in the area as possible, and provide clear, consistent indoor outdoor wireless coverage and broadband internet service to those who live, travel, and do business from home in the local area.

If the proposed lattice tower was restricted in height it would significantly reduce the target coverage area, and fail to close the service coverage gap leading to limited wireless and broadband internet service for the local community and surrounding area as identified in the provided AT&T coverage/propagation maps. Additionally, a reduced tower height would limit space for colocation opportunity for other service providers increasing the need for more cell towers in this portion of the County.

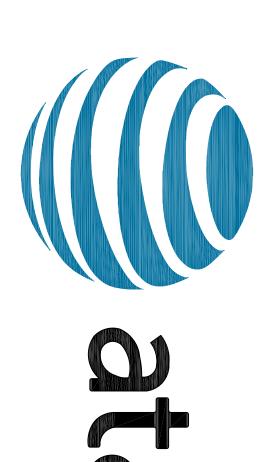
Should you have any questions or comments please don't hesitate to reach to my office directly Kind Regards,

Carl Jones (AT&T Authorized Agent)

Epic Wireless Group LLC

Carl Jones

605 Coolidge Drive, Suite 100, Folsom, CA 95630 (916) 798-2275 <u>carl.jones@epicwireless.net</u>



SITE NAME: LARABEE SITE NUMBER: CCL03946

28101 STATE HWY 254 REDCREST, CA, 95569

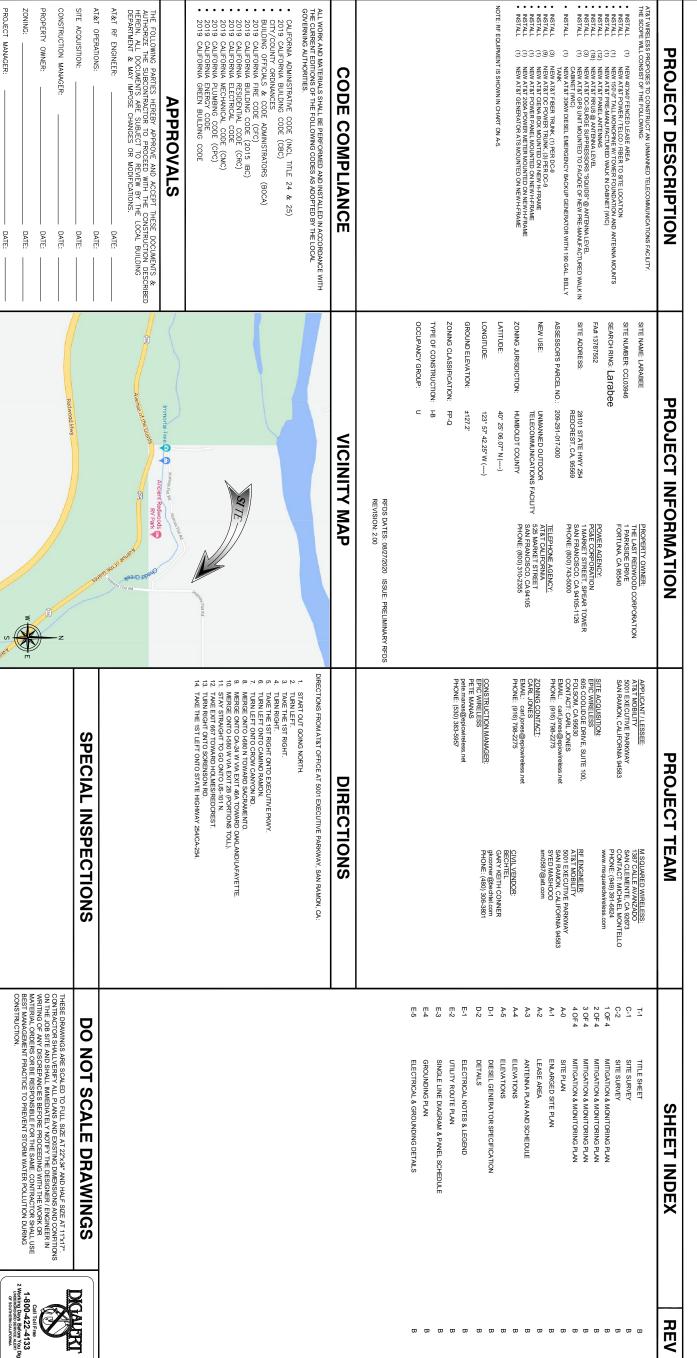
LARABEE

REDCREST, CA, 95569 28101 STATE HWY 254

JURISDICTION: HUMBOLDT COUNTY

APN: 209-291-017-000

SITE TYPE: MONOPINE





5001 EXECUTIVE PARKWAY SAN RAMON, CALIFORNIA 94583





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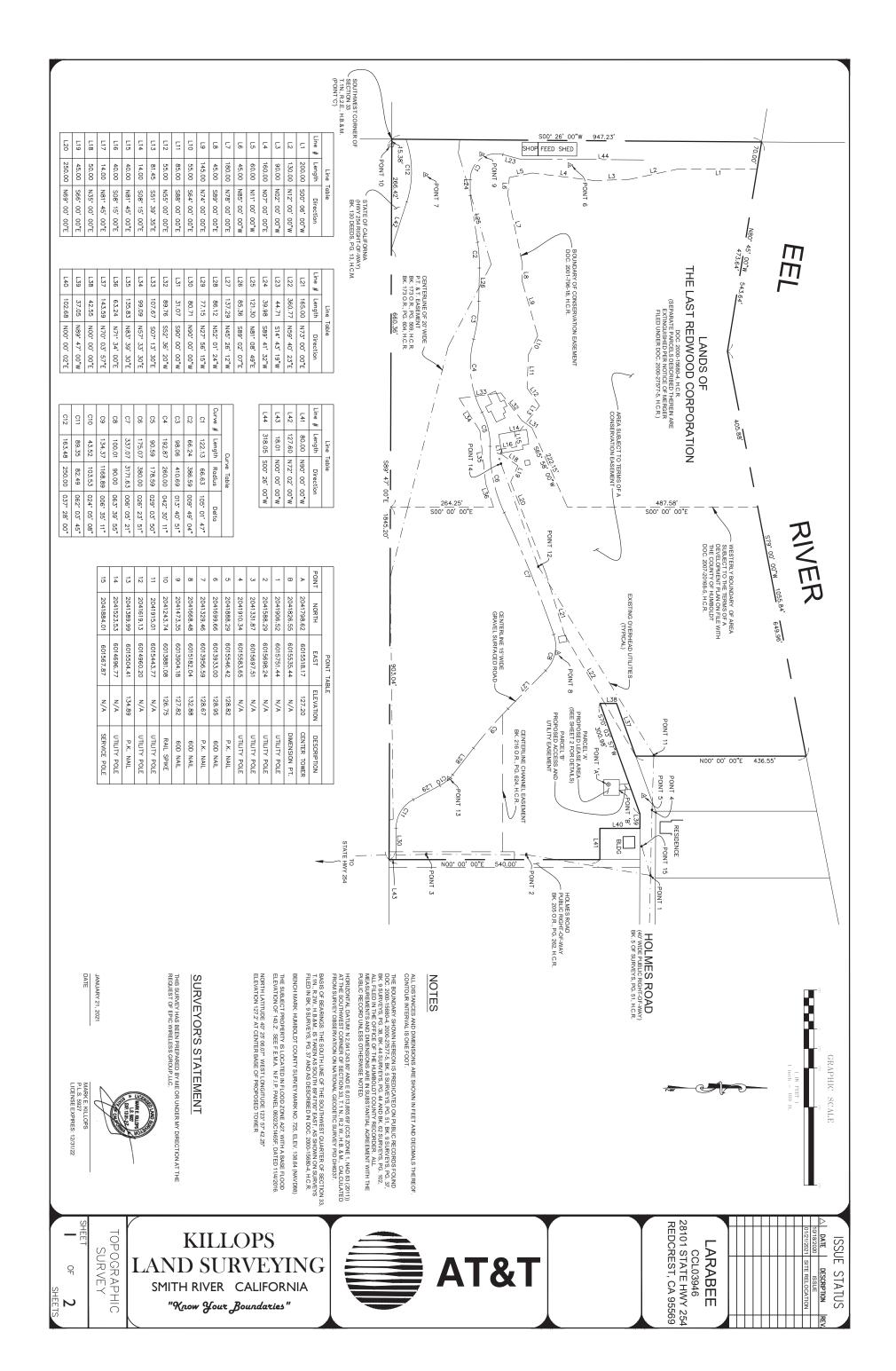
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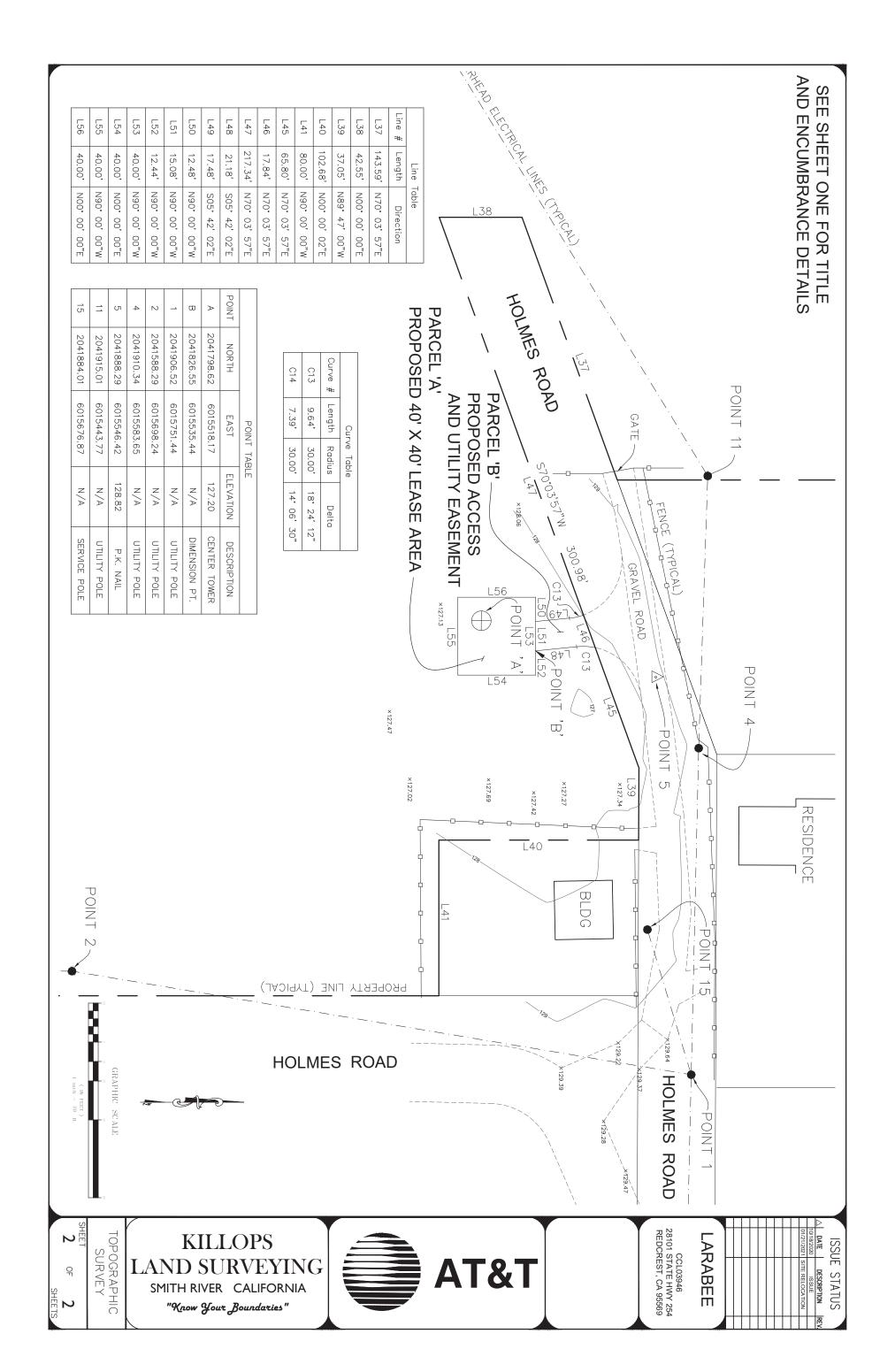
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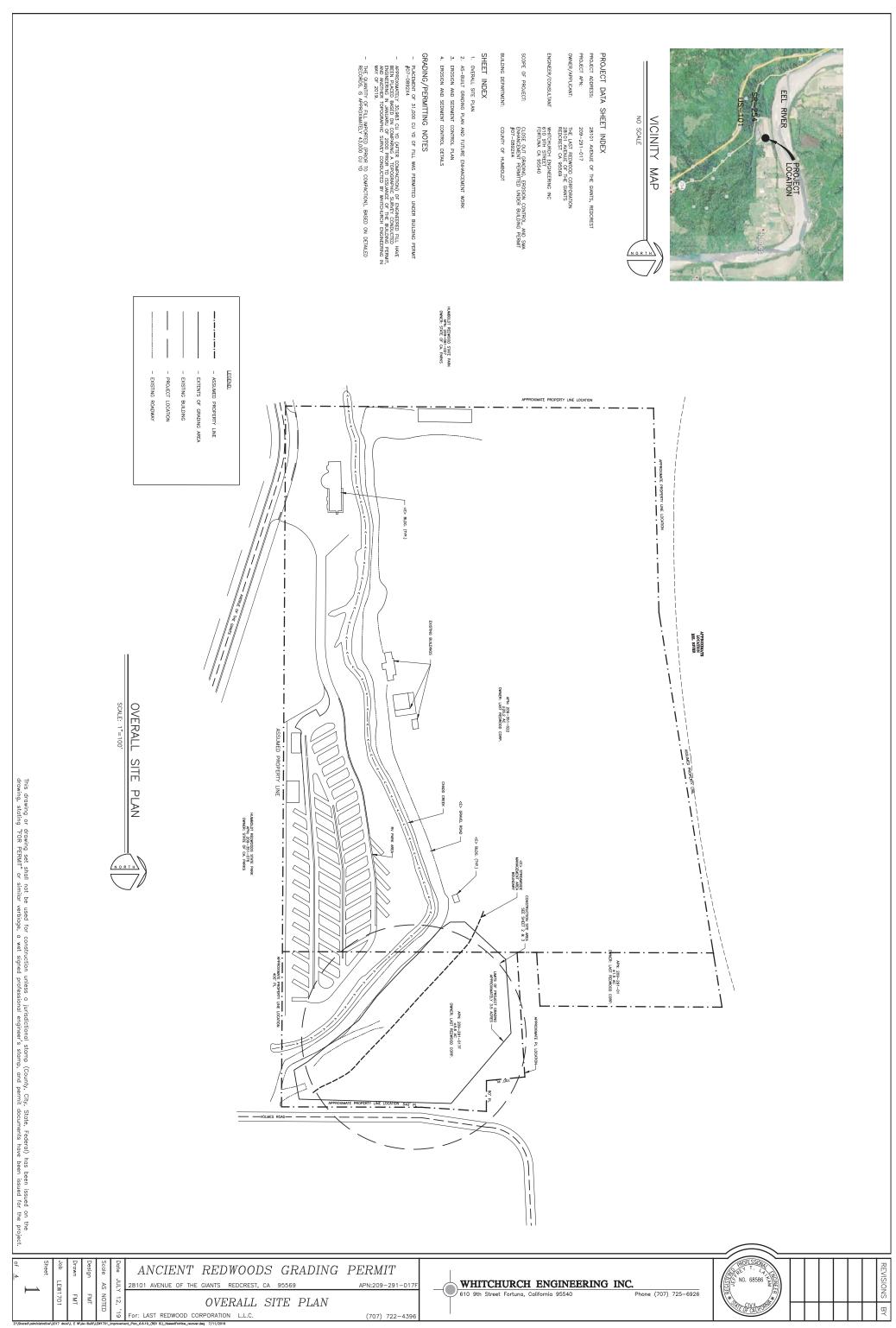
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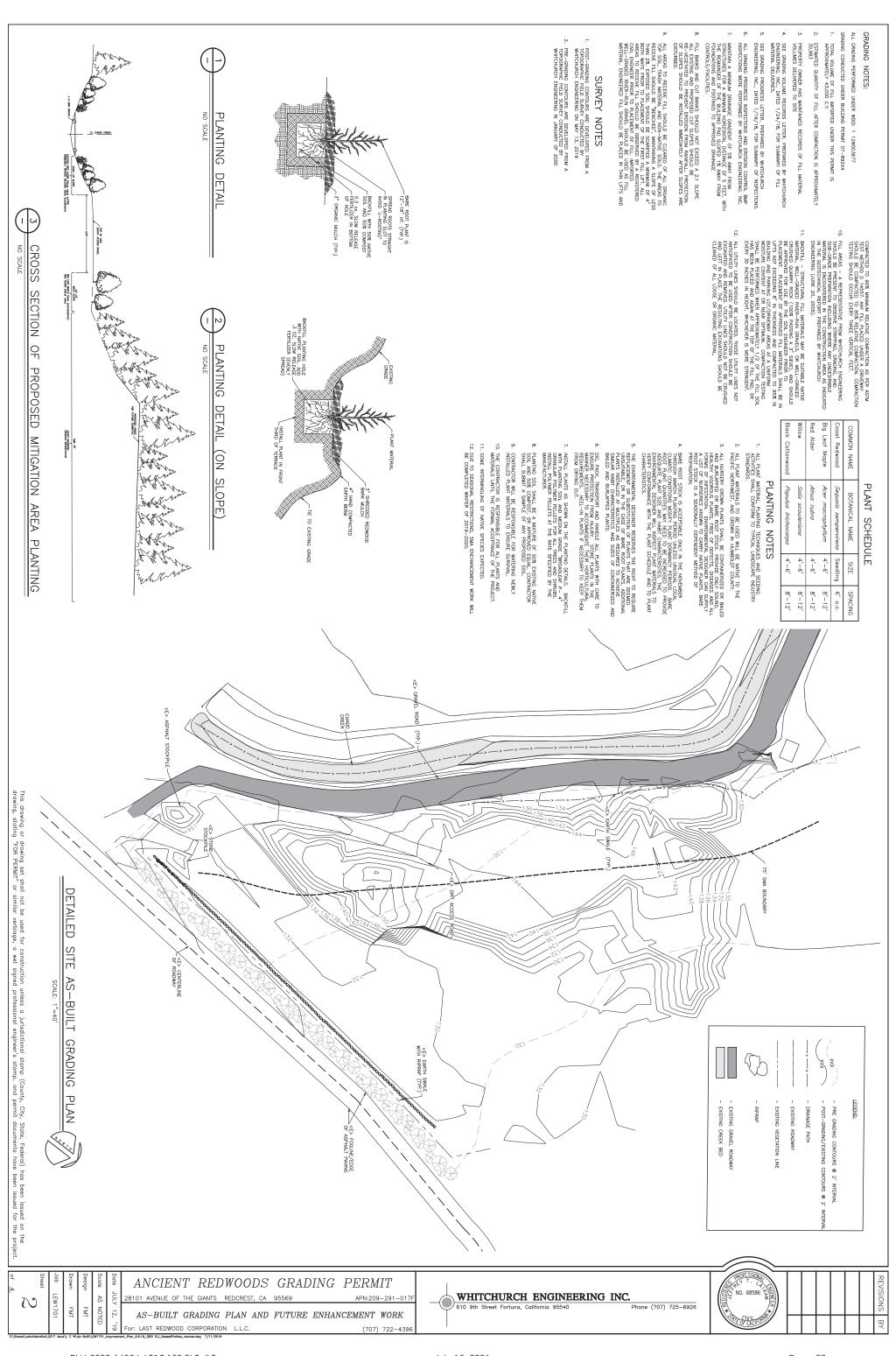
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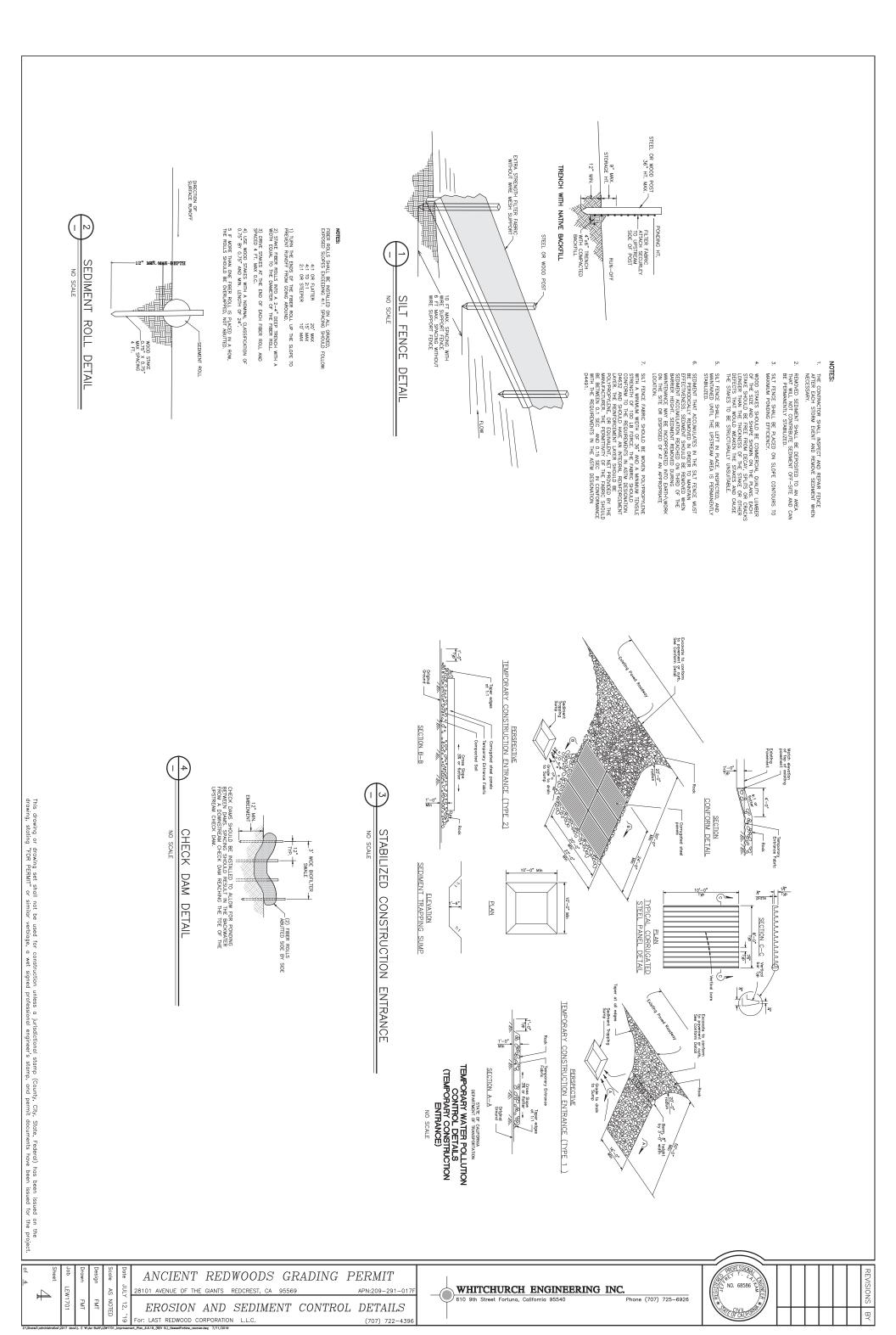


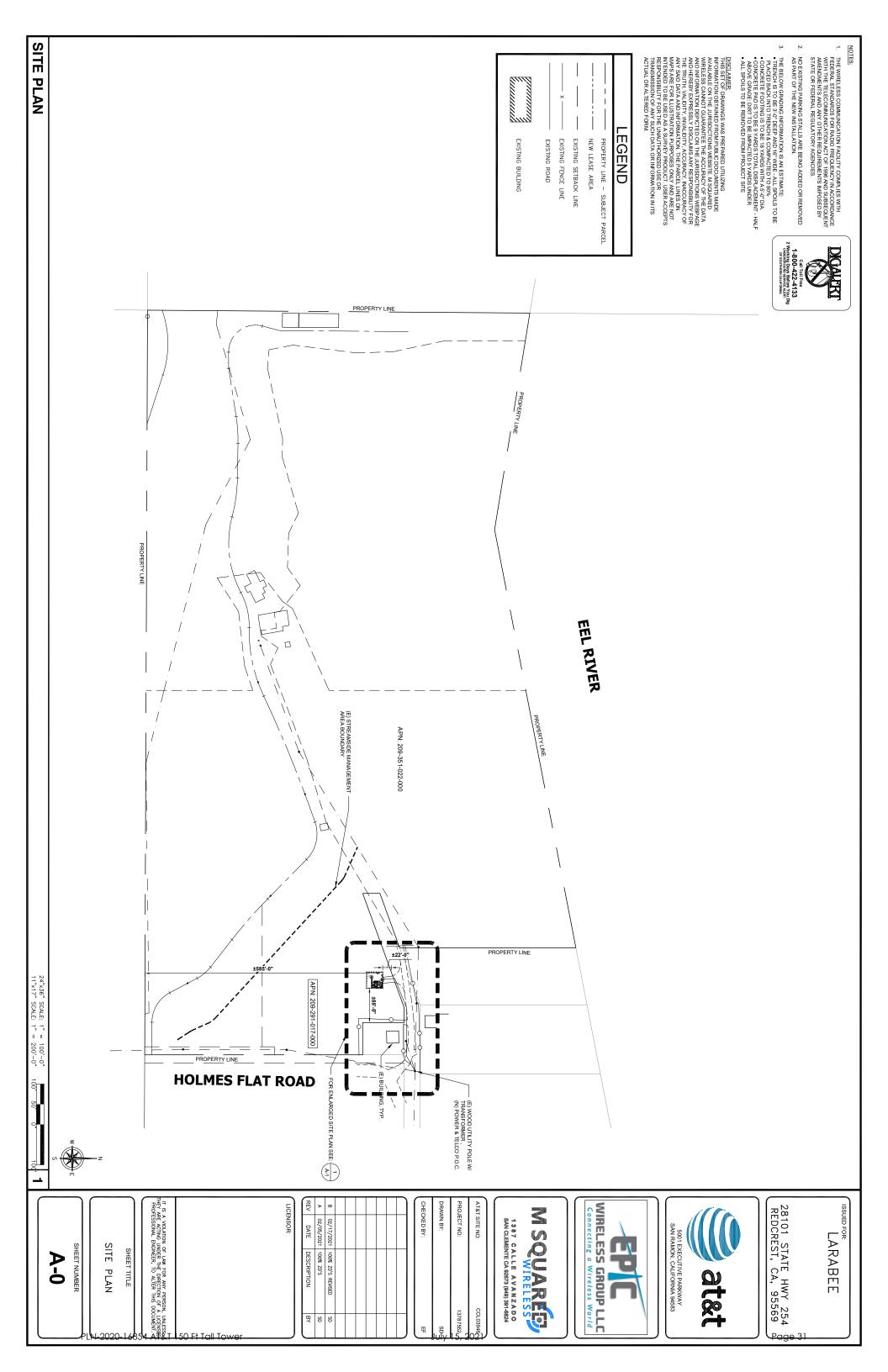
Page 26

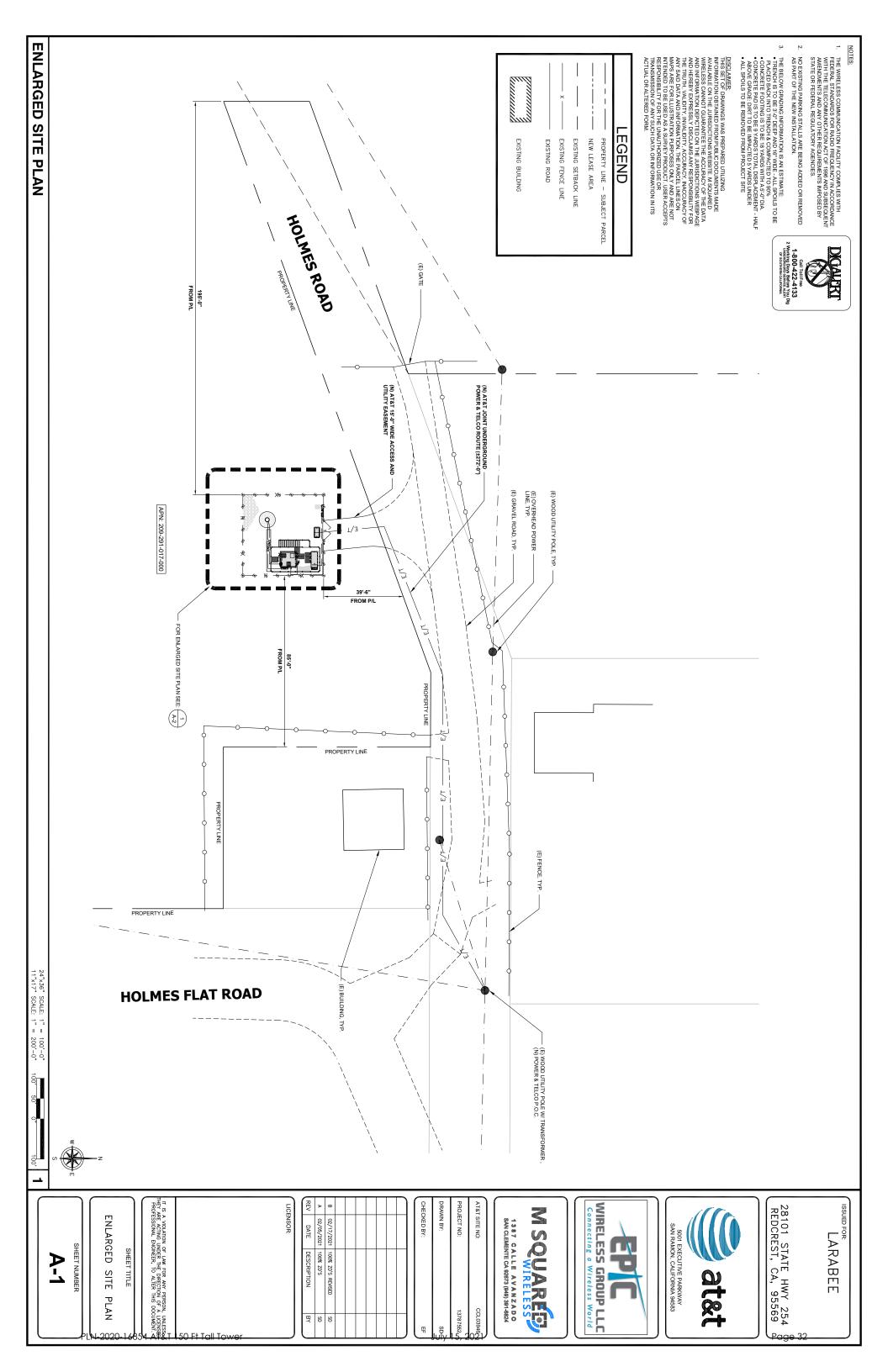


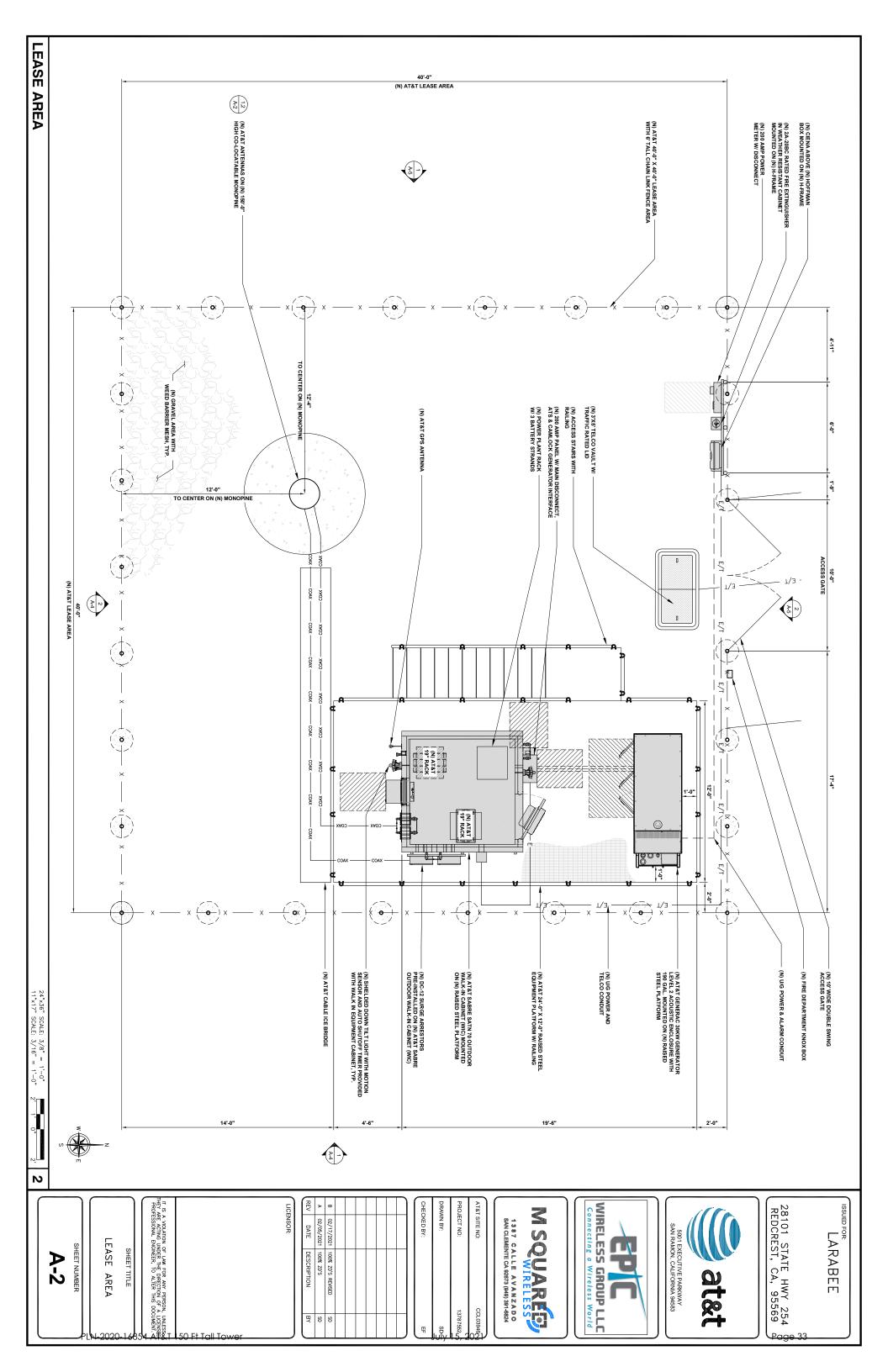


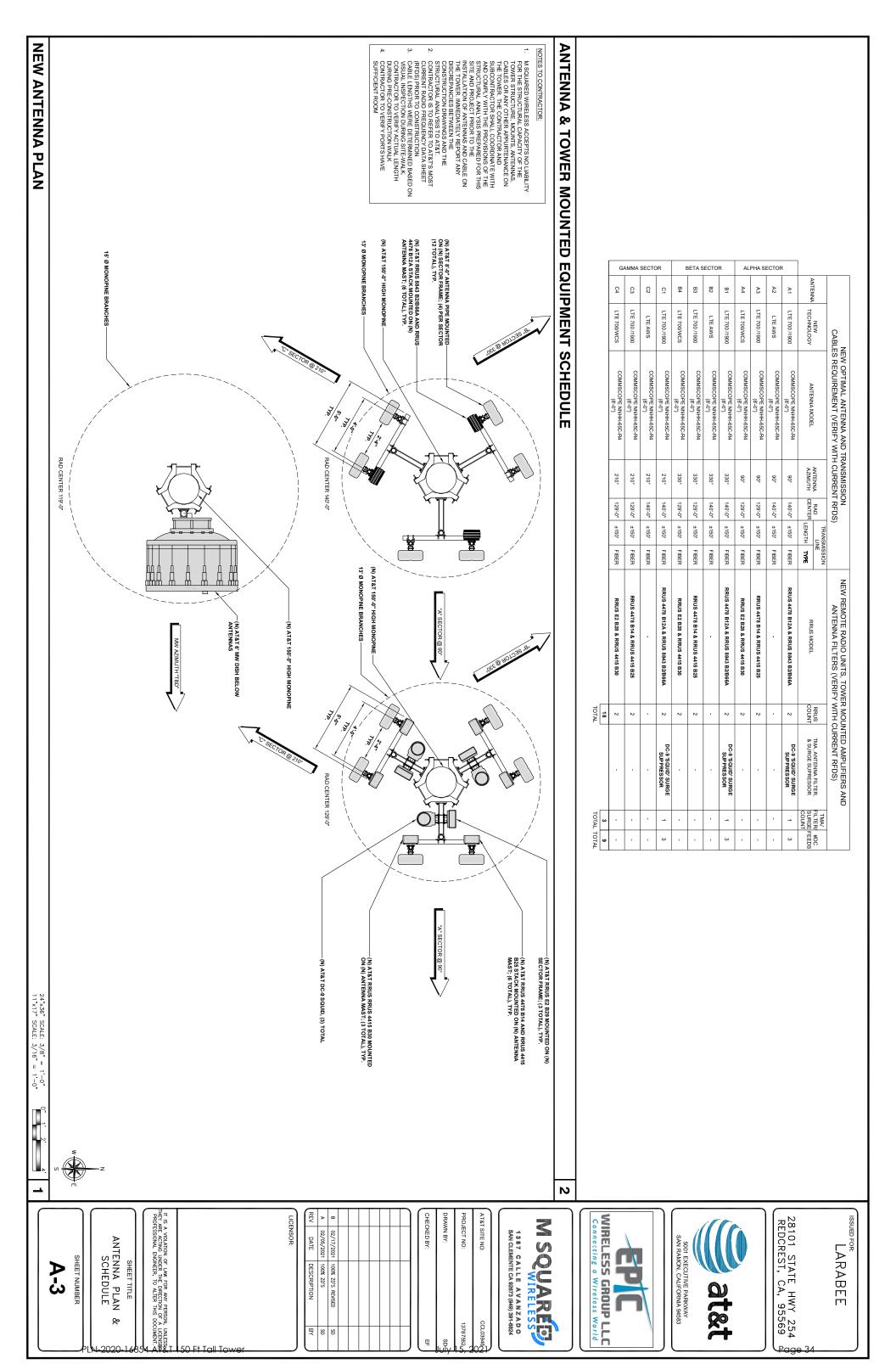
D. DUST CONTROL E. REMOVAL OF VEGETATION AND REVEGETATION C. DISPOSAL OF EXCAVATED MATERIALS I EXCESSIVE DUST SHALL BE CONTROLED AT ALL TIMES DIPRING CONSTRUCTION AND INTIL FINAL COMPRETION. THE CONTRACTOR, WHEN HE OR HIS SUBBOONTRACTOR ARE OPERATING EQUIPMENT ON SITE, SHALL PREVENT THE FORMATION OF EXCESSIVE AIRBORNE MUSANCES BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MATTER THAT WILL CONFRIM DUST PARTICLES TO THE MADDIATE SURFACE OF THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAY DIAMAGE CAUSED BY DUST FROM HIS OWN ACTIVITIES OR HIS SUBCONTRACTORS ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT AND SHALL BE RESPONSIBLE FOR MAY CITATIONS, FINES,OR CHARGES RESILLTING FROM DUST NUISANCES. DUST CONTROL WILL BE DONE ON A DAILY BASIS. 5. TEMPORARY CHANNEL TO CONTROL SURFACE WATER FLOW OVER CUT AND FILL SLOPES SHALL BE AN A.D.S. PLASTIC PIPE DIRECTED TO ESTABLISHED DRAINAGE. 3. TEMPORARY SLOPE STABILIZATION MEASURES SHALL CONSIST OF STRAW MULCHING, APPLICATION OF THIS MEASURE SHALL COMMENCE WITH START OF CONSTRUCTION. 1. THIS PLAN WAS PREPARED BY A QUALIFIED SWPPP DEVELOPER FROM WHITCHURCH ENGINEERING, DARREN TULLY (QSD CERTIFICATE NUMBER OO614). EROSION AND SEDIMENT CONTROL NOTES 1. ENHANCEMENT WORK SHOWN ON SHEET 2 TO BE COMPLETED DURING THE WINTER OF 2019-2020 DUE TO SEASONAL CONSTRAINTS. 1. VEGETATION REMOVAL IS TO BE LIMITED TO AREA DIRECTLY UNDER PROPOSED CONSTRUCTION 1. EXCAVATED MATERIALS SHALL BE HAULED OFF SITE OR USED AS FILL MATERIAL ONSITE. B. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR ALL ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. 7. A TEMPORARY SEDIMENT DETENTION BASIN IS NOT NECESSARY FOR THIS PROJECT. 6. EXISTING GRASS VEGETATED FIELD AREA WILL SERVE TO REDUCE DRAINAGE FLOW VELOCITIES. 1. EXISTING DRAINAGE PATTERNS ARE SHOWN ON ATTACHED PLAN. B. WATER COURSES 7. THIS EROSION CONTROL PLAN, AND BMP'S DESCRIBED IS SUBJECT TO CHANGE UNDER THE DISCRETION OF THE QSD. AMENDMENTS WILL BE LISTED IN THE SWPPP DOCUMENT KEPT ON SITE. 3. THE SOURCE OF THE BMP'S USED IN THIS PLAN PREPARATION ARE FROM CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOK AND STATE WATER RESOURCES CONTROL BOARD BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK. 2. THIS PROJECT IS UNDER THE CALIFORNIA CONSTRUCTION GENERAL PERMIT. WDID: 1 12C384837 4. CHECK DAMS AND SEDIMENT ROLLS SHALL BE USED WHEN NECESSARY, AS DETERMINED BY THE QSP, SO AS TO DECREASE EROSION AND PROMOTE SEDIMENTATION PRIOR TO OFF-SITE RUNOFF DISCHARGE. SEE DETAILS ON SHEET 4. 2. CHANGES IN FLOW QUANTITIES AND VELOCITIES ARE NEGLIGIBLE; EXISTING SLOPES AND DRAINAGE CHANNELS ARE TO REMAIN UNALTERED. SUBFACE WATER FLOW IS BY SHEET FLOW AND CONCENTRATED FLOW DIRECTED THROUGH DRAINAGE SWALES. SLOPE PROTECTION MEASURES SHALL CONSIST OF APPLYING A PROTECTIVE LAYER OF STRAW OR ANOTHER SUITABLE MATERIAL TO SOIL SURFACE AREA. A THE IMPLEMENTATION OF BHP'S WILL OCCUR WITH THE ONSET OF CONSTRUCTION, IMMEDIATELY AFTER SOIL IS DISTURBED AT SITE. AS SHOWN ON SITE MAP A SLIT FERCE WILL BE INSTALLED PARALLED FOR CONSTRUCTION SITE. OTHER EROSION CONTROL ACTIVITIES (HAY BALES, ETC) SHALL BE IMPLEMENTED AS DEEMED BY INSPECTION. A REPRESENTATIVE FROM WHITCHURCH BYGINEERING, INC SHALL INSPECT EROSION CONTROL MEASURES AFTER A SIGNIFICANT RAIN KENT, A LETTER FOR EACH INSPECTION SHALL BE SUBMITTED TO HE 40B FILE THE EROSION CONTROL MEASURES SHALL BE ISPECTED BY THE ENGINEER AS NECESSARY: ANY REQUIRED REPAIRS SHALL BE MADE MAIDLATELY. LEGEND: EXISTING GRAVEL ROADWAY EXISTING CREEK BED RIPRAP EXISTING CONTOURS @ 2' INTERVA EXISTING ROADWAY SILT FENCE PROPERTY LINE VEGETATION LINE <E> GRA) This drawing or drawing set shall not be used for construction unless a drawing, stating "FOR PERMIT" or similar verbiage, a wet signed profession (1) E **EROSION CONTROL** SCALE: 1"=40 SEE DETAIL PLAN A SON ANCIENT REDWOODS GRADING PERMIT WHITCHURCH ENGINEERING INC. 8101 AVENUE OF THE GIANTS REDCREST, CA 95569 ೦೦ Phone (707) 725-6926 FMT AS-BUILT EROSION AND SEDIMENT CONTROL PLAN For: LAST REDWOOD CORPORATION L.L.C.

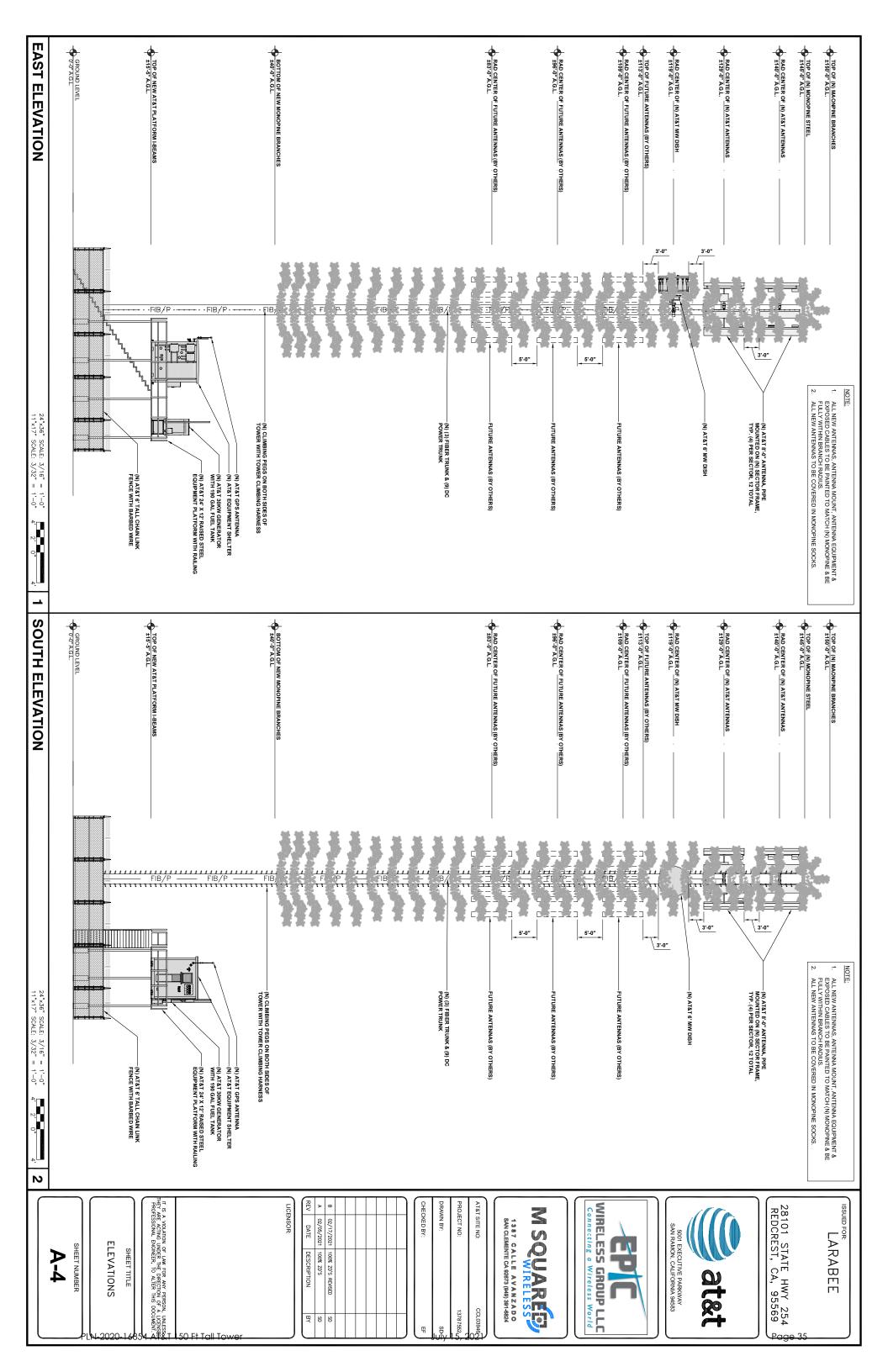


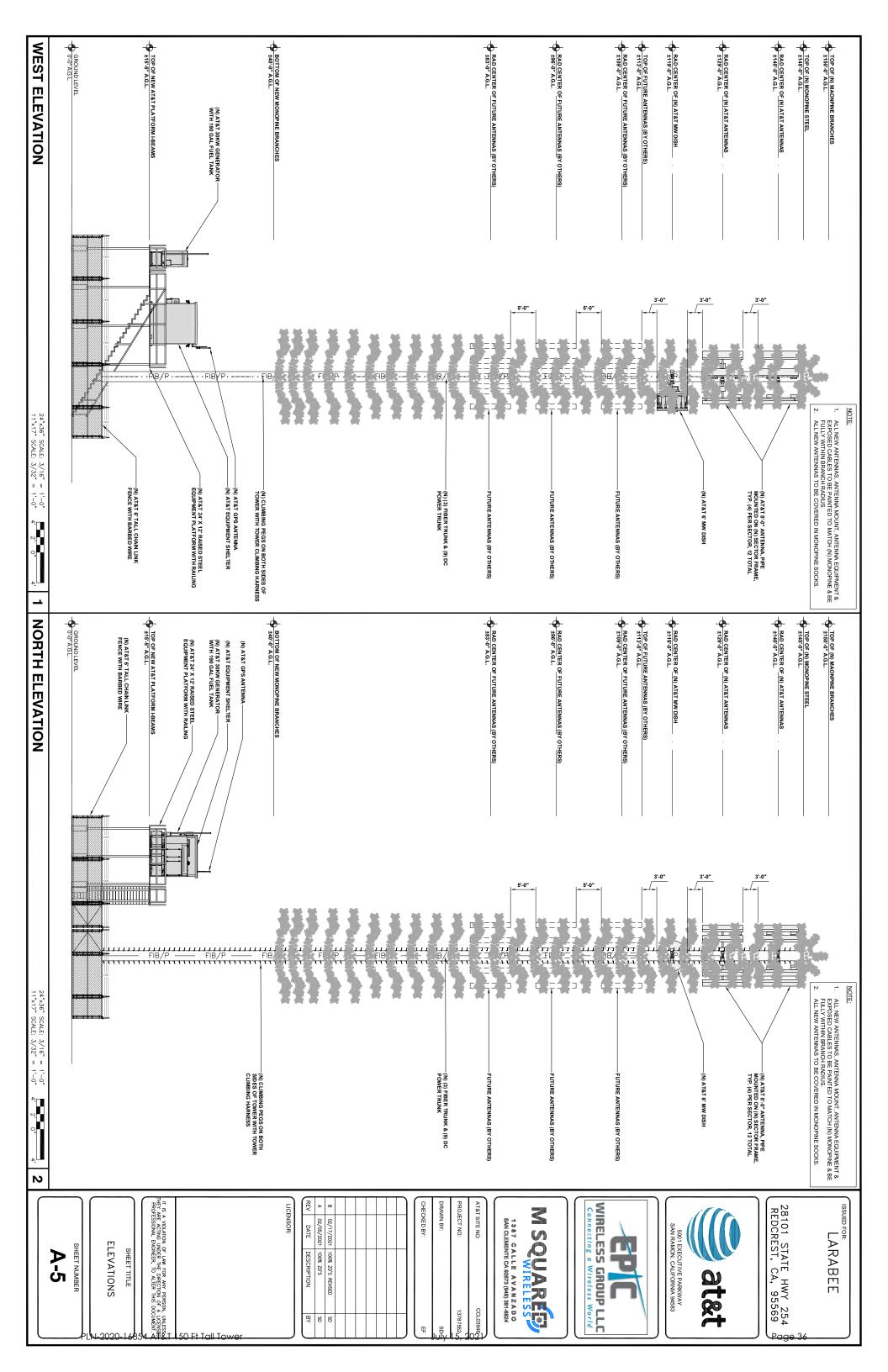












Prime Power Rating* 27 kW, 34 kVA, 60 Hz Standby Power Rating 30 kW, 38 kVA, 60 Hz

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GENERAC INDUSTRIAL

LARABEE

28101 STATE HWY 254 REDCREST, CA, 95569

CONTROL SYSTEM

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5001 EXECUTIVE PARKWAY SAN RAMON, CALIFORNIA 94583

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ALTERNATOR SYSTEM

O 3rd Breaker System FUEL TANKS

O UL.2085 Tank

O Stainless Stoel Tanks

O Special Fuel Tanks

O VentExtensions

WIRELESS GROUP LLC

Password Parameter Adjustment Protection

Single Point Ground
 16 Channel Remote Trending

Audibé Alarms and Studicoms
 Med in Audi (Fashin) Light
 Auto (Fashin) Light
 Auto (Fashin) Light
 E Stop (Faol Meshroom Type)
 MPATO Lovel and it (Proparmable)
 Castomicable Alarms, Warnings, and Events
 Modulus[®] Potocoal
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 Prodicite Methinianco Algorithm
 Coals Dranks

Digital H Control Panel- Dual 4x20 Display

Generac is committed to ensuring our customers' service support continues after their generator purchase.

ANSI C62.41

NEMA ICS10, MG1, 250, ICS6, AB1

ISO 3046, 7637, 8528, 9001 NEC700, 701, 702, 708

> For over 50 years, Generac has provided innovative design and superior manufacturing. Powering Ahead

Electrical System

Battery Charging Attendent

Battery Charging Attendent

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Cooling System
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FUEL TANKS (If Selected)

UL 12/ULC S801

Double Wall

Normal and Emirgency Vents
Stoped Top
Stoped Bottom

Stoped Selector

Stoped Selector

ALTERNATOR SYSTEM

Alternator Upsizing
Anti-Concensation Heater
Tropical Coating
Permanert Magnet Excitation

ELECTRICAL SYSTEM FUEL SYSTEM

10A UL Listed Battery Charge Battery Warmer

NPT Flexible Fuel Line

ENCLOSURE

Fadry Pressure Tested
 Ruptire Basin Alarm
 Fuel (red
 Check Valve in Supply and Return Lines
 Rhincholar*—Textured Polyester Powder Cu
 Stainess Steel Hardware

GENERATOR SET

C Extended factory Testing
C 8 Position Load Center
C Pad Vibration Isolation

Fuel System

Fuel Lockoff Solenoid

Primary Fuel Filter

ENERATOR SET

Old Train Extension
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 Air Closen
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 Factory Float Cill and Cockets
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ENCLOSURE (II Selected)

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Oil Heater
Octrical Stenoer (Open Set Only)
Octrical Stenoer (Open Set Only)
Octrical Stenoer Guard
Upon Set Only)

CIRCUIT BREAKER OPTIONS

Main Line Circuit Breaker

2nd Main Line Circuit Breaker

Shunt Trip and Auxiliary Cortact

Electronic Trip Breakers

ENGINE SYSTEM

CONFIGURABLE OPTIONS

ENGINE SYSTEM

ALTERNATOR SYSTEM

STANDARD FEATURES

Codes and Standards

Not all codes and standards apply to all configurations, Contact factory for details.

Generac ensures superior quality by designing and manufactuling most of its generator components, including attendancs, enclosures and tase tanks, control systems and communications software.

(P)

LL2200, UL508, UL489, UL142

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

NFPA 37, 70, 99, 110 SAE J1349 ES5514 and DIN 6271 CSA C22.2

CONTROL SYSTEM

ENGINE SPECIFICATIONS

Fuel System

MOTOR STARTING CAPABILITIES (SKVA)

SKVA vs. Voltage Dip 277/480 VAC 30% 208/240 VAC K0035124Y21 61 K0035124Y21

Engine Electrical System

COOLING

Stundby

LEVEL 1 ACOUSTIC ENGLOSURE

Rum Time Usable
Capacity LxWs

505 338 (230) (154)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph) 16.6 (63)

Diesel - gjh (Lph)
Percent Load Standby

WEATHER PROTECTED ENCLOSURE
Rum Usable
Time Capacity LxWxH-in
-Hours - Gal (L)

APPLICATION AND ENGINEERING DATA

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

SD030 | 2.2L | 30 kW INDUSTRIAL DIESEL GENERATOR SET

GENERAC INDUSTRIAL

DIMENSIONS AND WEIGHTS*

 OPEN SET (Includes Exhaust Flex)

 Run
 Usablo

 Time
 Capacaty

 LXWX'

 Hours
 -Gal (1)

 No Tank
 -76.0 (1,930) x 37.7

POWER RATINGS OPERATING DATA Programmatis Crask Limiter
 Poly Popularmatis Executors
 Special Application Polymer Service
 Special Application Polymer Service
 Strong Dept Verlags Regulator
 All Those Service (Dept Verlags Regulator
 Polymer Service)
 Polymer Service
 Polymer Service

Full System Status Display

Prower Output ((W))

Prower Tactor

Prower Tactor

RM Houss, Total, and Loci Run

Red Read-they/Apprent Prower

All Phase AC Viriable

All Phase Currents

0.2 mssc High Speed Remote Trending
 Alarm Information Automatically Annunciated on the Display

Alarms and Warnings

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Old Persone

Old Impediate

Old

ENGINEERED OPTIONS

CONTROLSYSTEM

Oil Pessure
 Coolan Temperature
 Coolan Level
 Coolan Level
 Englie Speed
 Battery Voltage
 Fregency

Spelled Out (No Alarm Code

ENGINE SYSTEM

GENERATOR SET

Special Testing

M SQUARED

1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-6824

SPEC SHEET

PROJECT NO: AT&T SITE NO: CCL03946 13787552

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			Į	#	SD VIUI	15

REV DATE	A 02/05/2	B 02/17/2				
DESCRIPTION	02/05/2021 100% ZD'S	02/17/2021 100% ZD'S REVISED				
Вү	SD	SD				

LICENSOR:	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESSO. HEY ARE ACTING UNDER THE DIRECTION OF A LICENSIE PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. SHEET TITLE

ALTERNATOR SPECIFICATIONS

COMBUSTION AIR REQUIREMENTS

EXHAUST

Standby

LEVEL 2 ACOUSTIC ENCLOSURE
Rum Time Usable
-Hours -Gapacity LxWy

510 (232)

SPEC SHEET

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Nesses contract a General Phewa Systems Industrial Abader for accidional details. All performance ratings in accordance with \$55,000, 1955;14, 1906;20), and 10,0627 substance are performed in the conditional details. All performance ratings in accordance with \$55,000, 1955;14, 1906;20), and 10,0627 substance are performed in the conditional details. All performance ratings in accordance with \$55,000, 1955;14, 1906;20), and 10,0627 substance are performed in the conditional details.

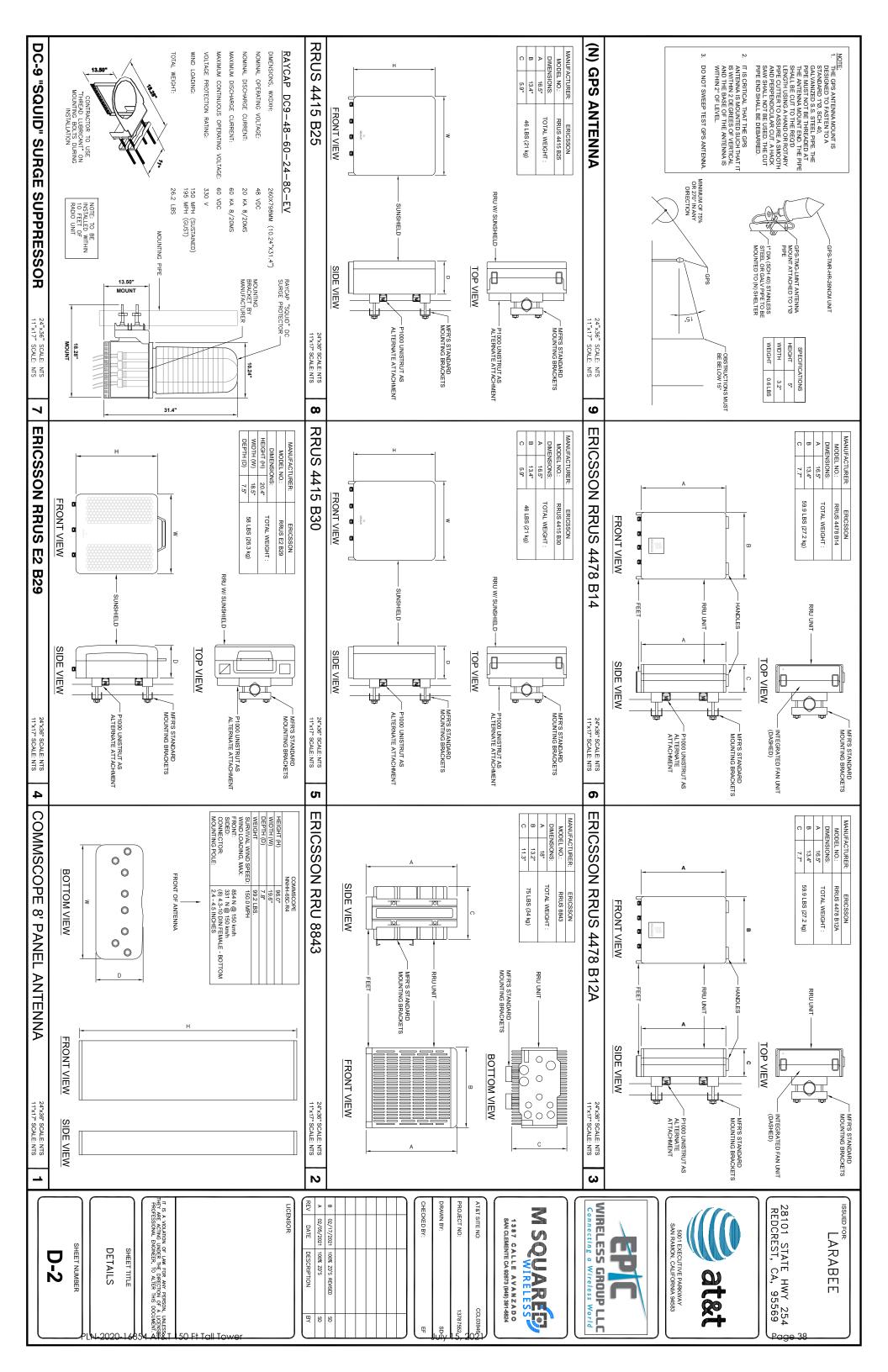
SPEC SHEET

ienerac Power Systems, Inc. | P.O. Box 8 | Waukisha, WI 53189 ⊵ (262) 541-4811 ©2018 Generac Power Systems, Inc. All hibtis c

Part No. 10000024842 Rev. B 08/27/18

DIESEL GENERATOR SPECIFICATIONS

SHEET NUMBER



GENERAL ELECTRICAL NOTES

- SUBMITTAL OF BIO INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT
- CONTRACTOR SHALL PERFORM ALL FIELD VERIFICATION AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER AND OWNER LISTING ALL
- THESE PLANS ARE SCHEMATIC ONLY; CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.

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- 4. ANTENNA MOUNTING HEIGHTS AND AZIMUTHS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- Ċ٦ CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE INDICATED. NOTE THAT CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
- 6. IF REQUIRED, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- ALL MATERIALS AND EQUIPMENT SHALL BE PROPOSED AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. EXCEPTIONS TO THIS MAY BE PERMITTED IF PROPOSED REPLACEMENT BREAKERS OR SWITCHES ARE NOT AVAILABLE FOR ORIGINAL ELECTRICAL DISTRIBUTION EQUIPMENT—ON THAT CASE.

 RECONDITIONED EQUIPMENT MAY BE PERMISSIBLE IF IT CARRIES ONE (1) YEAR WARRANTY. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL"." WHERE SUBJECT TO SUCK APPROVAL. Materials SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
- œ IF CONTRACTOR IS PROPOSING ALTERNATE MATERIALS OR CONSTRUCTION METHODS FROM WHAT IS SPECIFIED IN THE PLANS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK.
- 9. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL CODES (NEC2014) AND ALL LOCAL AND STATE CODES (CEC 2016), LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
- <u></u>6 EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) REQUIREMENTS.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER, ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 12 CLEAN WORK SITE DAILY, AND REMOVE ALL DEBRIS RESULTING FROM CONSTRUCTION. LEAVE JOB SITE IN A TIDY AND UNDAMAGED CONDITION
- <u>;</u>3 UPON COMPLETION OF WORK, PERFORM CONTINUITY, SHORT CIRCUIT, AND GROUNDING TEST. GROUNDING SYSTEM SHALL BE TESTED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL. AFTER APPROVAL, FURNISH ONE COPY OF REPORT TO ENGINEER.
- 4 PROVIDE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL EQUIPMENT LOCATIONS, CONDUIT/CABLE ROUTING, PANEL SCHEDULE, AND OTHER DETAILS WITHIN 10 DAYS OF PROJECT COMPLETION. DATE OF JOB COMPLETION SHALL BE THE SATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER, AFTER SITE INSPECTION AND
- 15. ALL BROCHURES, OPERATING MANUAL, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- 6. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 17. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK

- 18. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSED THORUGH THE FLOOR OR WALLS FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- 19. EXACT LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS, SUCH AS X-RAY EQUIPMENT OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- 20. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH SUITABLE WEATHERPROOF SEALANT. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH CURRENT LOCAL BUILDING CODES USING U.L. RATED MATERIALS.
- 21. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM. UNLESS NOTED OTHERWISE, INSULATION SHTHHN/THWN-2. NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON I HALL BE 90°C RATED, AND DUAL RATED DRAWINGS.
- 22. ALL CONDUIT ONLY (C.O.) RUNS SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE

23.

- GROUND THE ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NEC AND DRAWINGS. BELOW GRADE GROUND CONDUCTORS SHALL BE #2 AWG SOLID BARE TINTED COPPER. ABOVE GRADE, ALL CONDUCTORS SHALL BE STRANDED GREEN INSULATED COOPER, SEIZED #2 AWG OR AS SHOWN IN THE DRAWINGS. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 8' LONG. GROUNDING HARDWARE SHALL BE ERICO, STORM COPPER COMPONENTS, FUSHI COPPERWELD OR APPROVED EQUAL.
- 24. GROUND ALL ANTENNA BASES, ENCLOSURES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO THE BUS BARS. FOLLOW EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR GROUNDING, GROUND COAX SHIELD AT BOTH ENDS USING CABLE MANUFACTURER'S RECOMMENDATIONS.
- 25. THE NUMBER OF GROUNDING BARS MAY VARY DEPENDING UPON THE SITE LAYOUT, ANTENNA LOCATION, AND OTHER FACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SUFFICIENT GROUNDING BARS AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- 26. EXOTHERMIC WELDS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, CABLE TO GROUND RODS, GROUND ROD SPLICES AND OTHER SYSTEMS AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, ETC.) SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS AND PROCEDURES. ALL EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF GALVITE (WHITE) PAINT OR SILVERBRITE (ALUMINUM).
- 27. ALL STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTA WASHERS TYPICAL. ALL MECHANICAL CONNECTIONS SHALL HAVE ANTI-OXIDANT GREASE (E.G. NO-OX) CHED WITH NUTS, BOLTS AND STAR APPLIED BETWEEN LUG AND BUS BAR.
- 28. ALL EXPOSED TINNED COPPER GROUNDS SHALL BE PROTECTED BY 1/2" PVC CONDUIT AND SECURED OTHER GROUND LEADS SHALL ALSO BE ENCLOSED IN 1/2" OR 3/4" LTFC. WHERE SUBJECT TO MECHANICAL DAMAGE,
- 29. COMPRESSION FITNESS TO BE USED ON ALL CONDUITS (NO SETSCREWS).
- 30. PVC CONDUIT INSTALLED IN OUTDOOR LOCATIONS SUBJECT TO SUNLIGHT EXPOSURE SHALL BE UV RESISTANT. SURFACE-MOUNTED CONDUIT INSTALLED IN LOCATIONS SUBJECT TO FOOT TRAFFIC OR OTHER WEAR AND TEAR, SHALL BE PVC SCHEDULE 80, IMC, OR GRC. CONDUIT RUNS ALONG WALLS OR FLOORS SHALL BE SURFACE MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. OTHER CONDUIT REQUIREMENTS:
- 30.a. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE WATERTIGHT COMPRESSION TYPE. IMC SHALL BE USED FOR OUTDOOR RUNS, IMC IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3
 30.b. ELECTRICAL METALLIC TUBING (EMT) SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 30.c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 30.d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- ELBOARDS AND DISCONNECT SWITCHES SHALL AND ATTACHED WITH RIVETS.
- ALL PROPOSED ELECTRICAL ENCLOSURES (EXCEPT FOR JUNCTION OR SPLICE BOXES) SUCH AS PANEI BE LABELED WITH PERMANENT ENGRAVED PHENOLIC NAMEPLATES, BLACK WITH WHITE LETTERING, /

ABBREVIATIONS

_		U		< >					⊅
ELECTRICAL METALLIC TUBING GROUND FAULT CURRENT INTERRUPTER GROUND GROUND GLOBAL POSITIONING SYSTEM	DIRECT BURIED DIGITAL EXPANSION INTERFACE DISCONNECT	CONCRETE ENCASED COLLECTOR GROUND BAR CIRCUIT CIRCUIT CAPACITOR OVERVOL TAGE PROTECTION	CONDUIT CABINET	BARE STRANDED COPPER WIRE BARE TINNED COPPER WIRE	BASEBAND UNIT BARE COPPER WIRE	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE	ADVANCED WIRELESS SERVICES ABOVE GROUND ANTENNA GROUND BAR	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	ALTERNATE ACCESS VENDOR ANTENNA CABLE ASSEMBLY
SPD S/S TVSS	RRGS	PPC PRC C	O N	NEC O	MMBS	MGB LTFC	ISCW	IGR B	GR GRC
REMOTE RADIO UNIT SURGE PROTECTIVE DEVICE STAINLESS STEEL TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL	POWER RIGID GALVANIZED STEEL REMOTE RADIO HEAD	PERSONAL COMMUNICATION SERVIICES POWER PROTECTION CABINET PRIMARY RADIO CABINET POLYVINYL CHLORIDE POLYVINYL CHLORIDE	NETWORK VISION OVERHEAD	NATIONAL ELECTRIC CODE NETWORK INTERFACE DEVICE	MULTI-MODE BASE STATION MANUAL TRANSFER SWITCH	LIQUID TIGHT FLEXIBLE CONDUIT MAIN (OR MASTER) GROUND BAR	INTERMEDIATE METALLIC CONDUIT INSULATED STRANDED COPPER WIRE LONG TERM EVOLUTION	INTERNAL GROUND BAR INTERIOR GROUND RING	GROWTH (CABINET) GALVANIZED RIGID (STEEL) CONDUIT
ע							XFMR	₩V P	UADU U/G
							TRANSFORMER	WEATHERPROOF WIREWAY	UNIVERSAL TYPE A DIGITAL UNIT UNDERGROUND

ELECTRICAL LEGEND

SYMBOLS: NOTES:

CONDUIT AND WIRE. FULL HASH MARK - CIRCUIT WIRE. HALF HASH MARK - BOND WIRE. (G) CONDUIT - CONCEALED CONDUIT - EXPOSED 3. LABEL ALL BOXES AND CIRCUITS AS REQUIRED BY AT&T SMOKE DETECTOR ALL INTERIOR RECE

AC UNITS WILL NOT

OPERATE AT THE SAME TIME

6#

|

■ BTS-2,4

- 0 20 AMP 125V DUPLEX RECEPTACLE HUBBELL #5362 I HOME RUN TO PANEL E.G. PANEL BTS CIRCUITS 2 & 4.
- # 20 AMP 125V QUADPLEX RECEPTACLE HUBBELL #5362 I
- 유 유
- 20 AMP 125V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE HUBBELL #GF5362 |
- FUSED DISCONNECT SWITCH
- ৰ হ WEATHERPROOF
- ₩\$ 2 20 AMP 120/277V SINGLE POLE SWITCH. HUBBELL #HBL 1221 I, +48" M = MOTOR/ HORSEPOWER RATED 2 = 2 POLE UNLESS OTHERWISE NOTED
- 30-2 CURRENT CARRYING CAPACITY AND NO. OF POLES OF IDENTIFIED DEVICE. EXAMPLE 30 AMP 2 POLES
- Sab Soff OVERRIDE OFF LIGHTING SWITCH LIGHTING SWITCH 20 AMP, 120/277V, SINGLE POLE, HUBBELL #HBL 1221, +48"

LARABEE

ISSUED FOR:

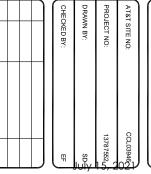
28101 STATE HWY 254 REDCREST, CA, 95569





MSQUARED

1387 CALLE AVANZADO SAN CLEMENTE CA 92673 (949) 391-6824



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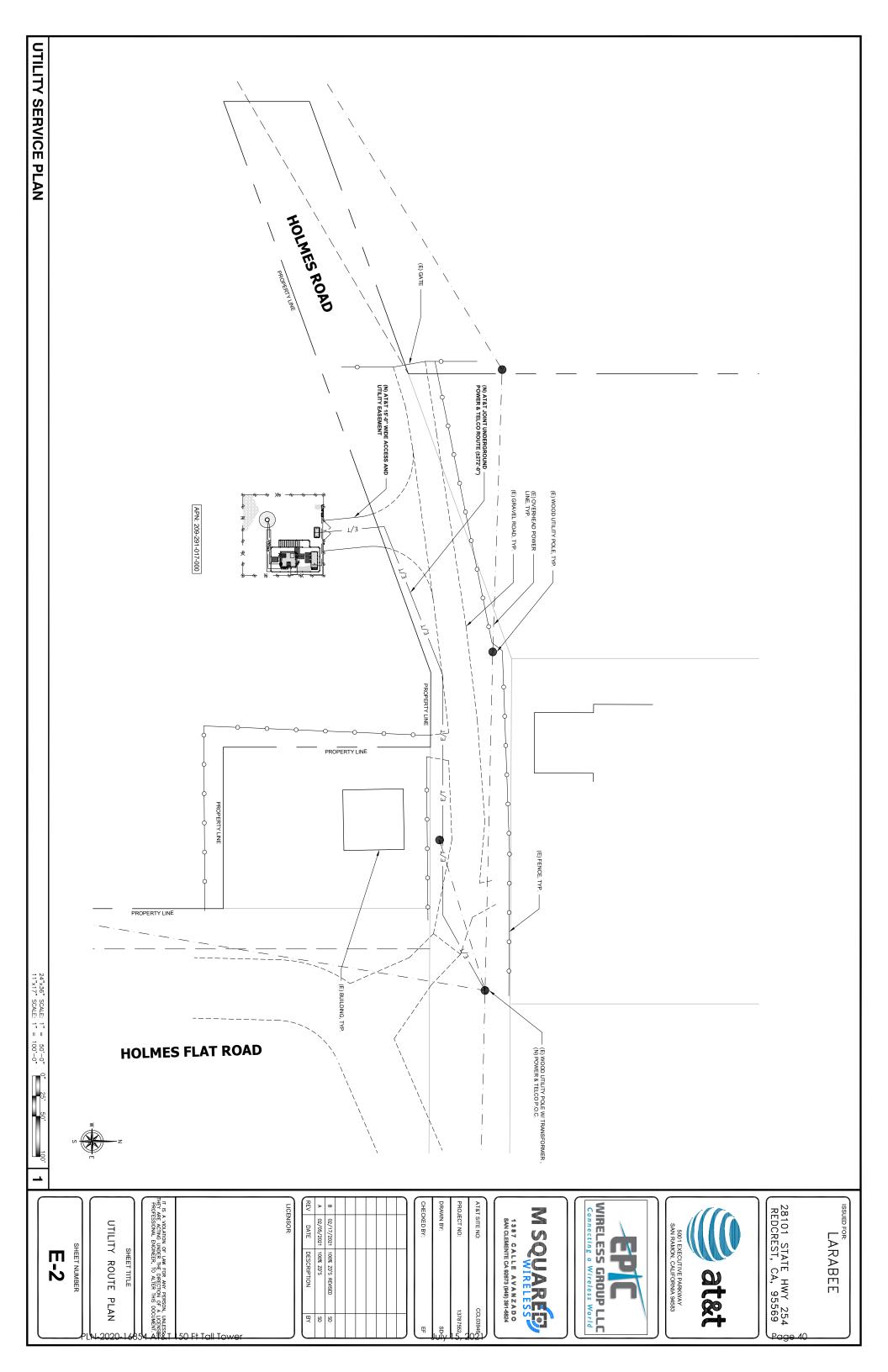
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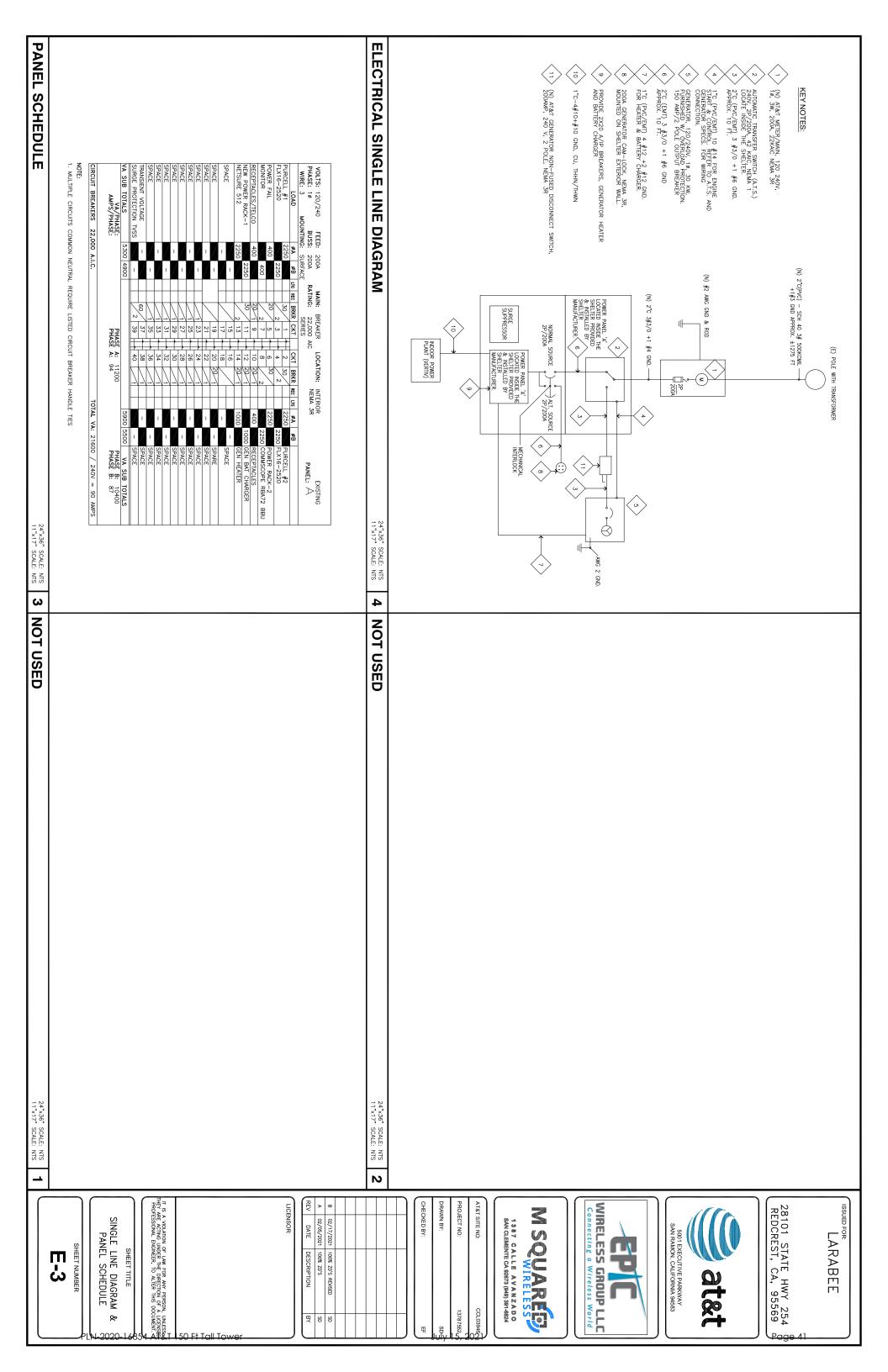
PTACLES AND SWITCHES SHALL BE SURFACE MOUNTED O SHUT DOWN A/C UNITS WHEN ACTIVATED

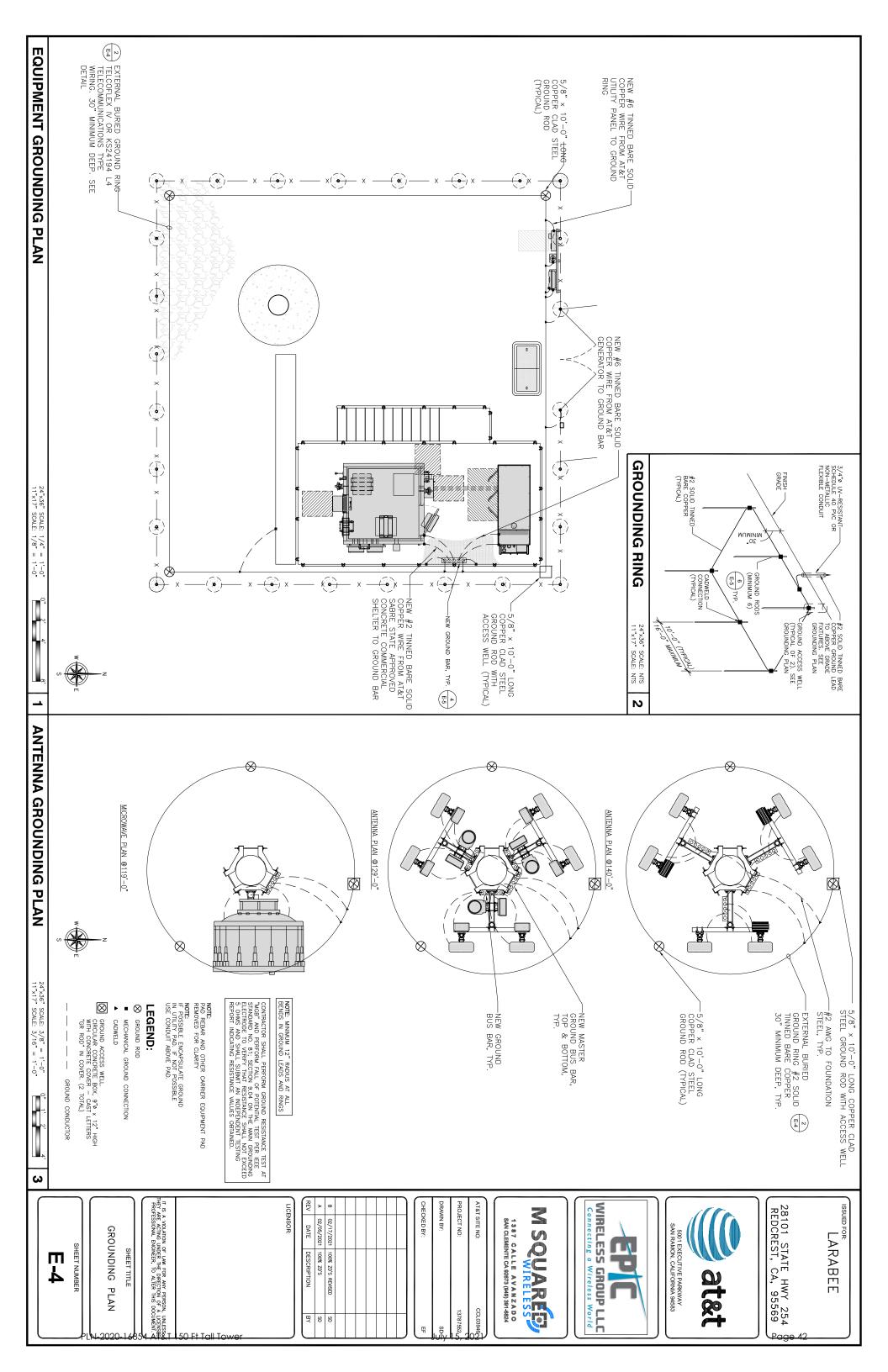
IS A VIOLATION OF LAW FOR ANY PERSON, UNLESSA Y ARE ACTING UNDER THE DIRECTION OF A LICENSE ROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

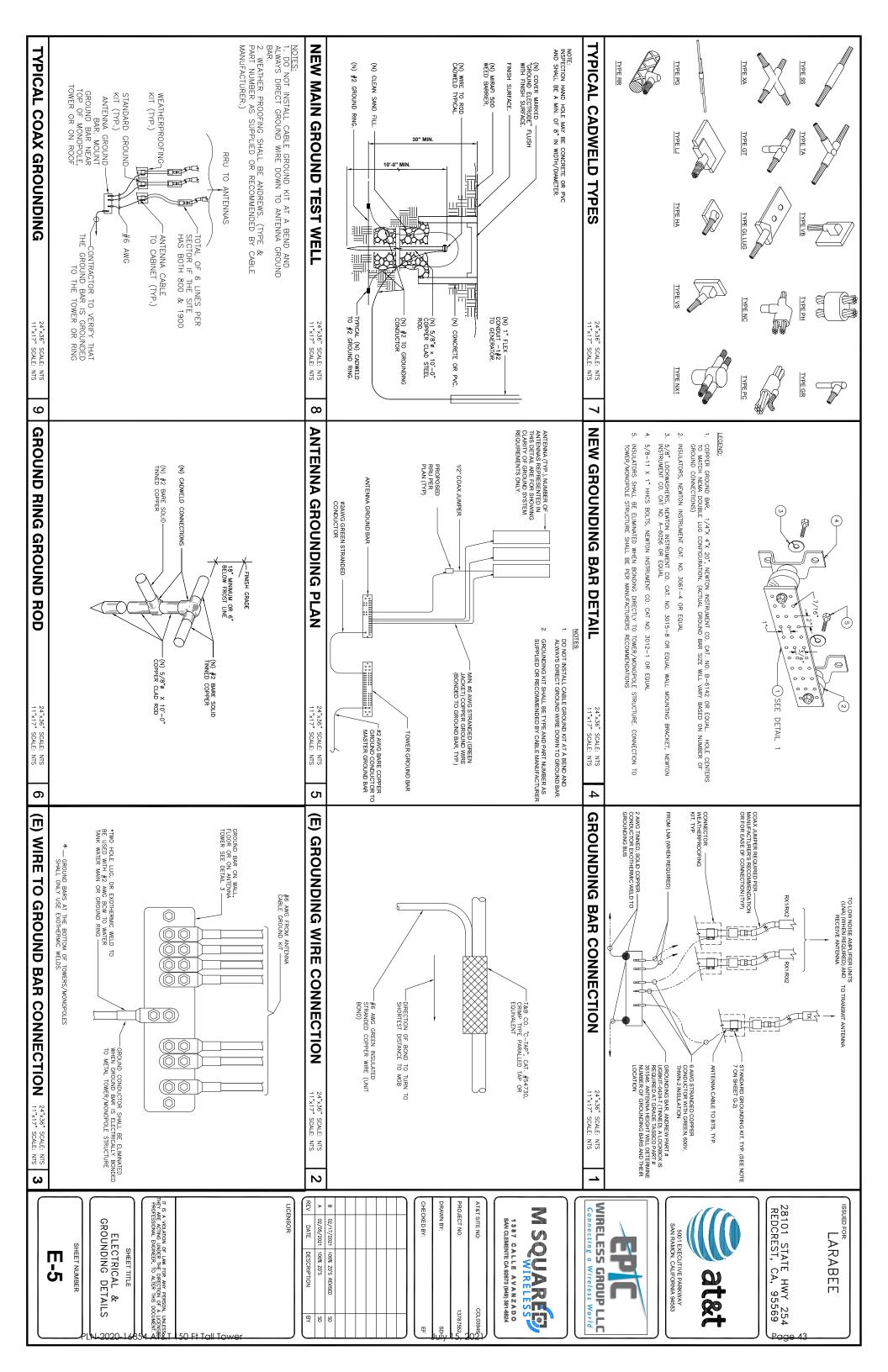
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ELECTRICAL NOTES,
ABBREVIATIONS &
ELECTRICAL LEGEND SHEET NUMBER

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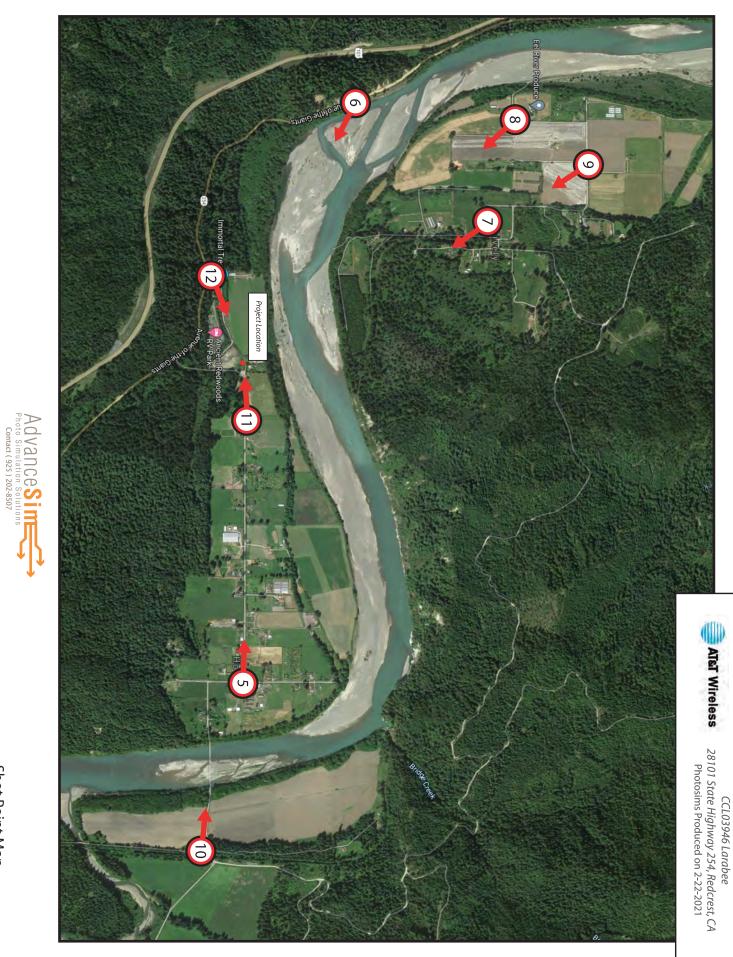






Advance Simple PLN-2020-1 6854 (41& 7:150 ft) Tall Tower









Advance **Sim** PLN-2020-168點提表了過去的時 Tall Tower

AT&T Wireless
July 15, 2021





July 15, 2021





Advance Simes PLN-2020-1 & 344 (12) \$ 32 25 36 Tall Tower

AT&T Wireless
July 15, 2021

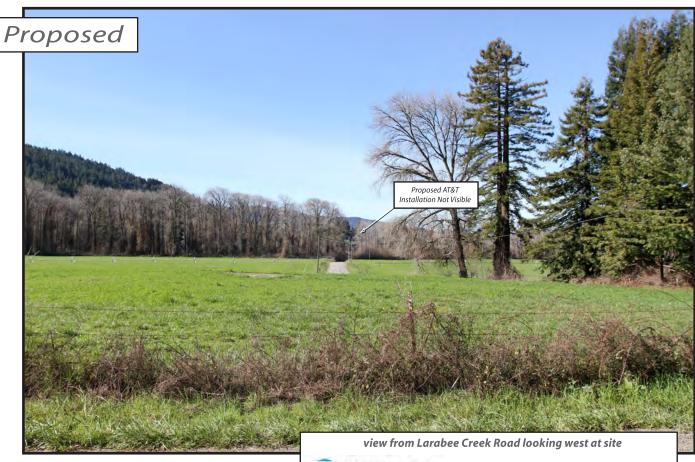




Advance **Sim** PLN-2020-168累集代集了以及原产 Tall Tower

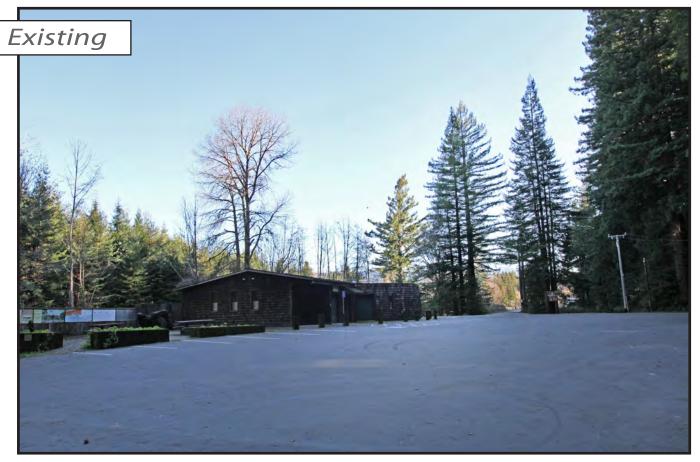
AT&T Wireless
July 15, 2021

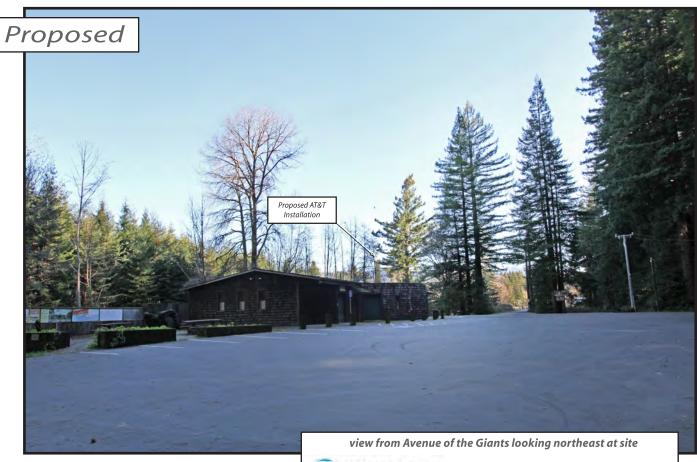




Advance Sime PLN-2020-1 & STAL AJ& 12150 FF Tall Tower

AT&T Wireless
July 15, 2021





Advance Simes PLN-2020-1 & Salat All Spanson Trail Tower

AT&T Wireless
July 15, 2021





Advance Simple PLN-2020-1 & Tall Tower

AT&T Wireless
July 15, 2021

Alternative Sites Analysis





AT&T Mobility

Wireless Telecommunications Facility
At
Ancient Redwoods RV Park
28101 Avenue of the Giants,
Redcrest, CA
Site ID: CCL03946/Larabee

Introduction

New Cingular Wireless PCS, LLC d/b/a AT&T Mobility ("AT&T") has a significant gap in its service coverage in an area of Redcrest, Humboldt County. AT&T proposes to install a new 150-foot tall wireless communications facility ("WCF") Monotree tower on the grounds of the privately owned property @ Ancient Redwoods RV Park located off state Hwy (254) Redcrest, Humboldt County CA ("Proposed Facility") as a means to fill AT&T's gap in coverage in this portion of the county. This property is zoned FP-Q. The Proposed Facility consists of twelve panel antennas (three sets of four antennas) and one microwave dish antenna mounted on a Monotree tower, with related equipment to be housed within a 80" x 80" equipment shelter adjacent to the tower. The Proposed Facility will be designed to minimize visual impacts and blend within the existing environment, The Proposed Facility is the least intrusive means to fill the significant gap of the alternatives investigated by AT&T as explained below.

Objective

AT&T Mobility has identified a significant gap in its service coverage in Humboldt county, in an area roughly bordered by Shively road to the north. Redwood Hwy 101 to the east. Avenue of the Giants to the south and Larabee Creek road to the west. The Proposed Facility will improve coverage to many dozens of rural residential homes in several neighborhoods, (2) schools, numerous agricultural businesses, and other points of interest in the immediate vicinity. The service coverage in this portion of the County is described in the accompanying Radio Frequency propagation maps.

Methodology and Zoning Criteria

The location of a WCF to fill a significant gap in coverage is dependent upon topography, zoning, existing structures, collocation opportunities, available utilities, and access. Wireless communication is line-of-sight technology that requires WCFs to be in relatively close proximity to the wireless handsets to be served.

AT&T seeks to fill a significant gap in service coverage using the least intrusive means under the values expressed in the Humboldt County Municipal Code ("Code").

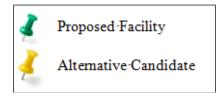
AT&T seeks to meet the Code requirements and provide the best available design by placing this WCF in a (FP-Q) Use zone at the minimum height needed to address the significant service coverage gap.

Analysis

AT&T investigated potential alternative sites for facilities to fill the identified coverage gap in this portion of Humboldt county. AT&T searched for, but did not find, feasible collocation opportunities and or existing structures in and around the coverage objective. Due to the need for antennas with a centerline height of 146 feet above ground level, AT&T proposed a WCF in the form of a Monotree tower. The following map shows the locations of the Proposed Facility and the alternative sites that AT&T investigated. The alternatives are discussed in the analysis which follows.

Location of Candidate Sites





Proposed Facility - Ancient Redwoods RV Park, state Hwy 254, Recrest CA



Conclusion: Based upon location, a willing landlord and the superior coverage as shown in the proposed AT&T's Radio Frequency coverage service maps, the Proposed Facility is the least intrusive means for AT&T to meet its service coverage objective.

This Rural property is located at 28101 state Hwy 254, Redcrest CA in a (FP-Q) zoning district. AT&T proposes to install a 150-foot stealth Monotree tower and an 80" x 80" (WIC) walk in closet equipment shelter at the rear of the Ancient Redwoods RV Park. The proposed 1,600 sq. ft AT&T lease area/compound will have easy access at the rear of the property, and the tower site will have a little to no visual impact on the aesthetic quality of its surroundings due to the numerous mature/tall trees located on the property. Effectively the existing trees will screen much of the facility from travelers along Hwy 254.

The Proposed Facility is the best available design to minimize visual impacts in the area. The Proposed Facility is the least intrusive means to fill the significant gap of the alternatives investigated by AT&T.

Alternative 1 - HRC (1) Humboldt Redwood company, Jordan Rd. Scotia, CA



This rural forested property owned by HRC is located approximately 2.6 miles West from the Proposed Facility. Due to its location well to the West of AT&T's service objective, a WCF here would not close AT&T's significant service coverage gap.

Alternative 2 – HRC (2) Humboldt Redwood company, Jordan Rd. Scotia, CA



This rural forested property is located approximately 1.84 miles West from the Proposed Facility. Due to its location well to the West of AT&T's service objective, a WCF here would not close AT&T's significant service coverage gap.

Alternative 3 – HRC (3) Humboldt Redwood company, Larabee Ranch Rd. Redcest



This rural forested property is located approximately 2.65 miles East from the Proposed Facility. Due to its location well to the East of AT&T's service objective, a WCF here would not close AT&T's significant service coverage gap.

Alternative 4 - Existing SBA Tower, Englewood Ranch Rd, Redcrest CA



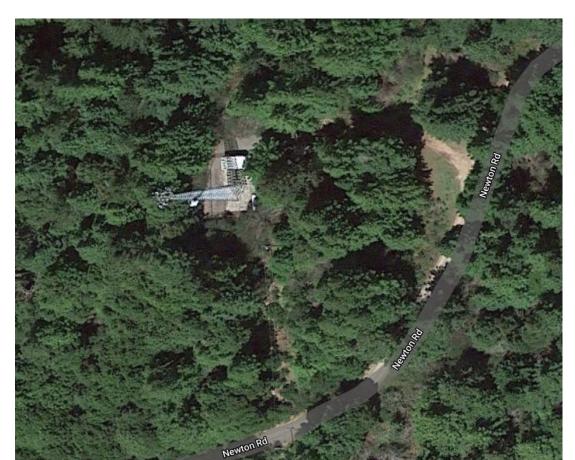
This property is located approximately 1.74 miles southeast from the Proposed Facility. Due to its location well to the southeast of AT&T's service objective, a WCF here would not close AT&T's significant service coverage gap.

Alternative 5 – Woody's Hill, Johnson Ln, Redcrest, CA 95569



Conclusion: Not Feasible or Viable

This property is located approximately 2.57 miles southeast from the Proposed Facility. It was discovered after extensive research that this property is **Not** viable due to access and easement issues /No access from a public right of way. Due to its location well to the southeast of AT&T's service objective for this specific site, a WCF here would not close AT&T's significant service coverage gap.



Alternative 6 - Existing Lattice Tower, East of Weott, CA

This property is located approximately **7.25** miles southeast from the Proposed Facility. Due to its location well to the southeast of AT&T's service objective, a WCF here would not close AT&T's significant service coverage gap.

Conclusion

The Proposed Facility is the least intrusive means by which AT&T can close its significant service coverage gap in this portion of Humboldt County. Denial of AT&T's application would materially inhibit AT&T's ability to provide and improve service in this portion of the County.

Competitive Coverage Analysis

December 30th , 2020

Syed Ahsan Mashhood

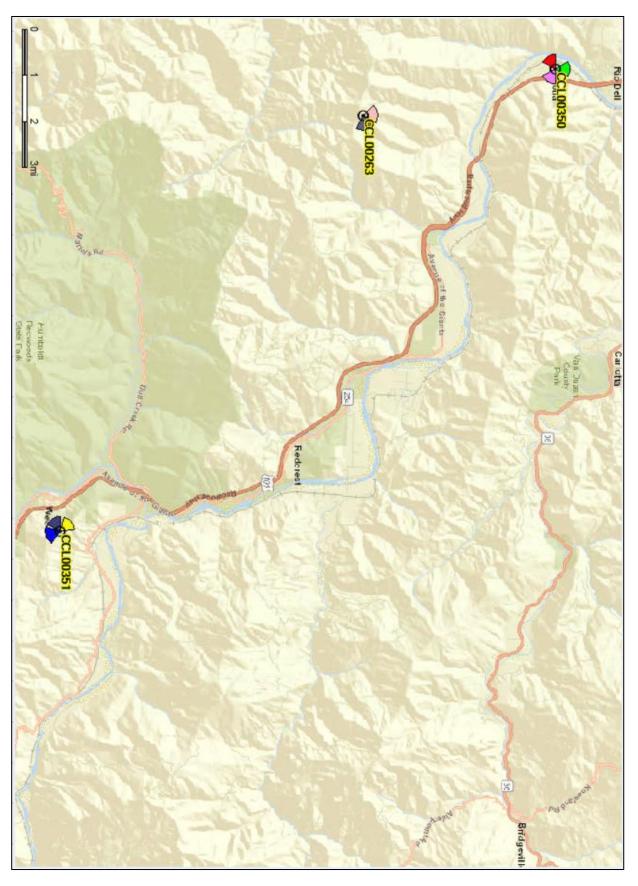


To provide RF coverage to the residential homes in Shirley and Homes, Avenue of the Giants and HWY 101

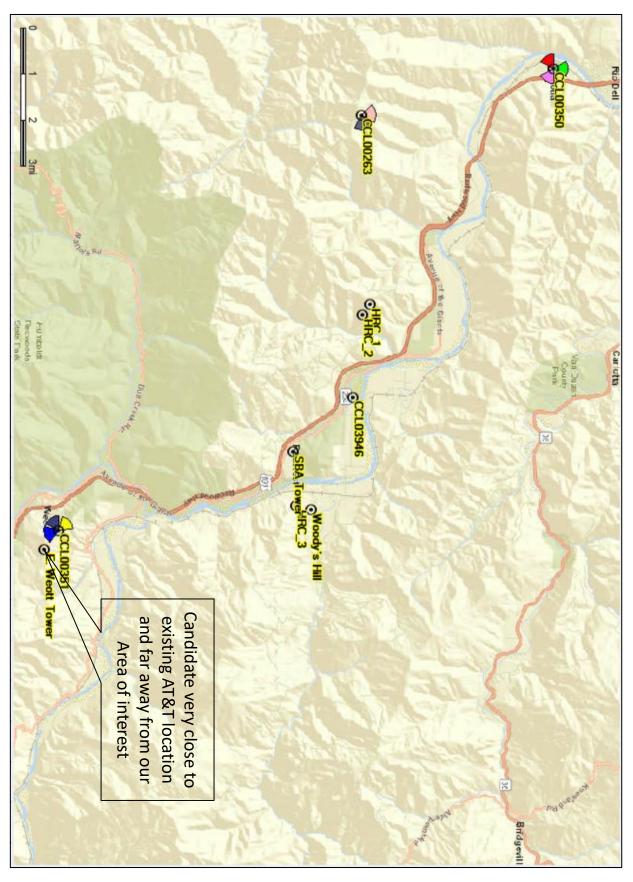




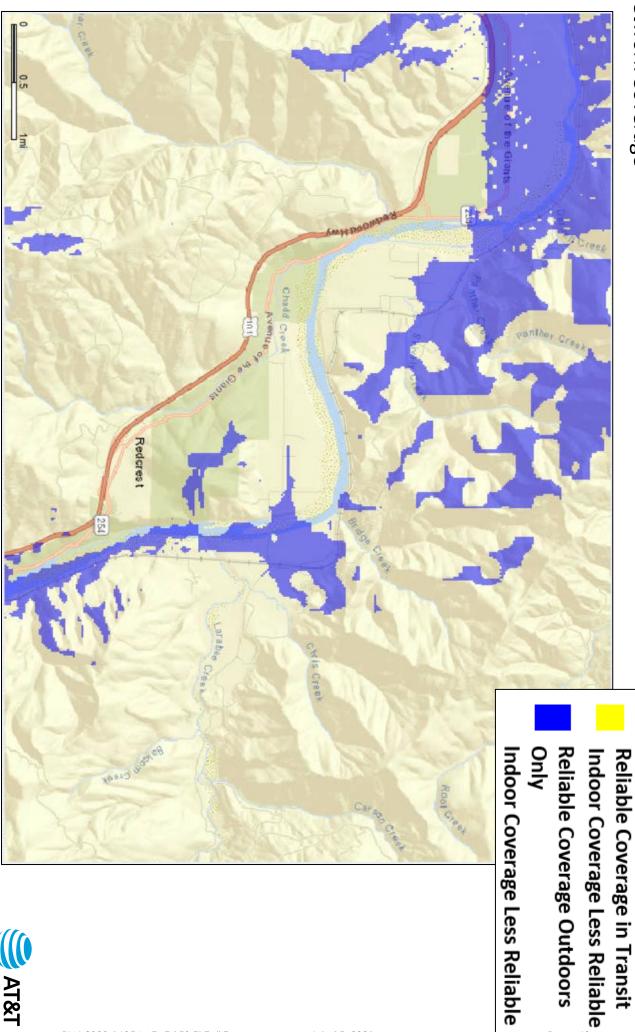
PLN-2020-16854 AT&T 150 Ft Tall Tower





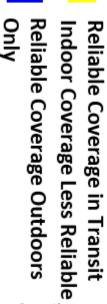








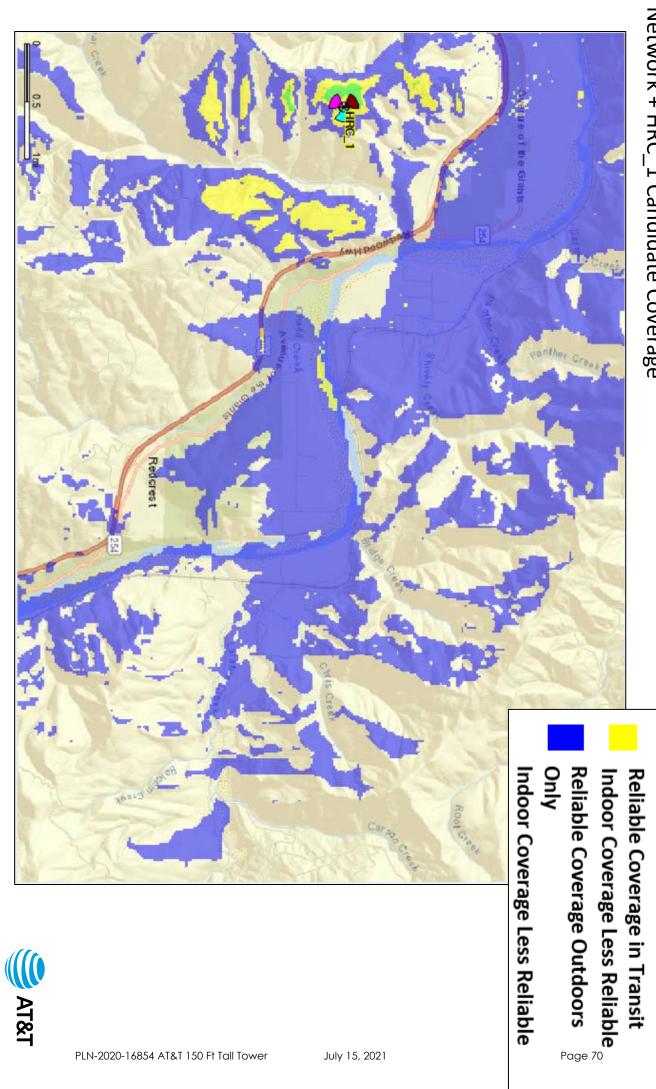




Indoor Coverage Less Reliable

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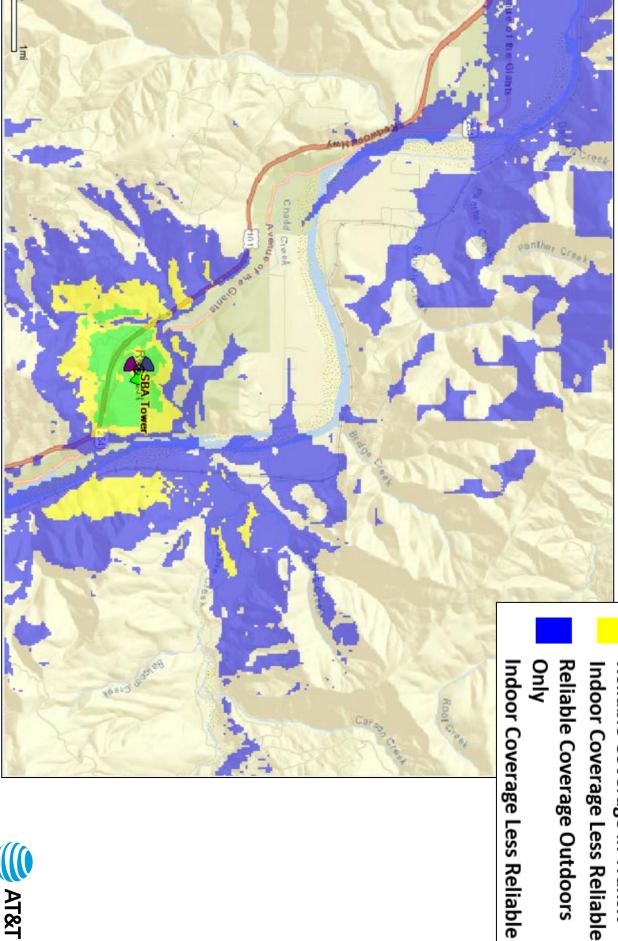
















Reliable Service Indoors/Outdoors

- Based on the Predictive Study Analysis, it is recommended that we should proceed with the proposed candidate as it is covering the residences and providing improvement along HWY101.
- Alternate candidates are not improving the areas of interest due to terrain blockages.

E.Weott Tower was not evaluated as it is far away from the area of interest and close to existing AT&T location.







Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: Larabee Site Structure Type: Monopole
Address: 28101 State Highway 254 Latitude: 40.418353
Redcrest, CA Longitude: -123.961736

Report Date: February 12, 2021 Project: New Build

Compliance Statement

Based on information provided by AT&T Mobility and predictive modeling, the Larabee installation proposed by AT&T Mobility will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. §§ 1.1307(b)(3) and 1.1310. RF alerting signage at the base of the Monopole and restricting access to authorized climbers that have completed RF safety training is required for Occupational environment compliance. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or in adjacent buildings by 5% of the General Population limits.

Certification

I, David H. Kiser, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

General Summary

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure ("MPE") limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Table 1: FCC Limits

	Limits for General Populate	ion/ Uncontrolled Exposure	Limits for Occupational/ Controlled Exposure		
Frequency (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)	Power Density (mW/cm²)	Averaging Time (minutes)	
30-300	0.2	30	1	6	
300-1500	f/1500	30	f/300	6	
1500-100,000	1.0	30	5.0	6	

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any location given the spatial orientation and operating parameters of multiple RF sources. The power density in the Far Field of an RF source is specified by OET-65 Equation 5 as follows:

$$S = \frac{EIRP}{4 \cdot \pi \cdot R^2} \text{ (mW/cm}^2)$$

where EIRP is the Effective Radiated Power relative to an isotropic antenna and R is the distance between the antenna and point of study. Additionally, consideration is given to the manufacturers' horizontal and vertical antenna patterns as well as radiation reflection. At any location, the predicted power density in the Far Field is the spatial average of points within a 0 to 6-foot vertical profile that a person would occupy. Near field power density is based on OET-65 Equation 20 stated as

$$S = \left(\frac{180}{\theta_{RW}}\right) \cdot \frac{100 \cdot P_{in}}{\pi \cdot R \cdot h} \text{ (mW/cm}^2)$$

where P_{in} is the power input to the antenna, θ_{BW} is the horizontal pattern beamwidth and h is the aperture length.

These theoretical results represent maximum-case predictions as all RF emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install 12 new AT&T panel antennas
- Install 18 new AT&T RRUs at antenna level

The antennas will be mounted on a 150-foot Monopole with centerlines 140 and 129 feet above ground level. Proposed antenna operating parameters are listed in Appendix A. Other appurtenances such as GPS antennas, RRUs and hybrid cable below the antennas are not sources of RF emissions. No other antennas are known to be operating in the vicinity of this site.



Figure 1: Antenna Locations

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serves to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.1466% of the FCC General Population limits. Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.1911% of the FCC General Population limits. The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or in adjacent buildings by 5% of the General Population limits.

Waterford Consultants, LLC recommends posting RF alerting signage with contact information (Caution 2B) at the base of the Monopole to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

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Compliance Requirement Diagram (Access Location)

Figure 2: Mitigation Recommendations

Appendix A: Operating Parameters Considered in this Analysis

9	œ	7	7	6	5	4	4	ω	2	_	_	Antenna #:	App
АТ&Т	АТ&Т	АТ&Т	AT&T	АТ&Т	Carrier:	endix A:							
COMMSCOPE	Manufacturer	Operating Pa											
NNHH-65C-R4 02DT	Pattern:	Appendix A: Operating Parameters Considered in this Analysis											
700	2100	1900	700	700	2100	1900	700	700	2100	1900	700	Band (MHz):	in this
210	210	210	210	330	330	330	330	90	90	90	90	Mech Az (deg):	Analy
												Mech DT (deg):	sis:
73	61	59	73	73	61	59	73	73	61	59	73	H BW (deg):	
8	8	8	8	8	8	8	8	8	8	8	8	Length (ft):	
40	40	40	40	40	40	40	40	40	40	40	40	TPO (W):	
4	4	4	4	4	4	4	4	4	4	4	4	Channels:	
0	0	0	0	0	0	0	0	0	0	0	0	Loss (dB):	
12.82	16.42	16.1	12.82	12.82	16.42	16.1	12.82	12.82	16.42	16.1	12.82	Gain (dBd):	
3063	7016	6518	3063	3063	7016	6518	3063	3063	7016	6518	3063	(W):	
5025	11511	10694	5025	5025	11511	10694	5025	5025	11511	10694	5025	EIRP (W):	
129	14	1 5 2	1	129	140	140	140	129	140	140	140	Rad Center (ft):	Page 81

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March 1, 2021

Epic Wireless Group Ashley Smith

Re: Noise Assessment Letter

AT&T Site CCL03946 - Larabee 28101 State Highway 254 Redcrest, CA 95569

Larabee is a proposed AT&T telecommunications macro site located in Humboldt County, CA. AT&T is proposing to add a walk in cabinet with wall mounted A/C units and a new emergency backup generator. Based on our review of the project drawings and technical specifications, the following is a summary of our noise assessment of the proposed equipment. It is our understanding that Humboldt County does NOT have an adopted noise ordinance. Following table out of Part 4, Chapter 13, Noise Elements, defines noise level performance standards as follows:

Table 4.10-4—Short Term Noise Standards (Lmax)

Zoning Classification	Day (maximum) 6:00 a.m. to 10:00 p.m. dBA	Night (maximum) 10:00 p.m. to 6:00 a.m. dBA
MG, MC, AE, TPZ, TC, AG, FP, FR, MH	80	70
CN, MB, ML, RRA, CG, CR, C-1, C-2, C-3	75	65
RM, R-3, R-4	65	60
RS, R-1, R-2, NR	65	60

Source: Humboldt County 2017

NOISE ANALYSIS

Of the supporting equipment planned for this project, Table 1 presents the primary noise sources of concern.





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Table 1 – Supporting Equipment Noise Data

Noise Source	Equipment Type	Make	Model	Size	Manufacturer's Published Noise Data (dBA)	Noise Data Reference Distance (ft)
А	AC Unit	Marvair	ECUA018ACA	18K BTUs	55	20
В	Generator	Generac	SD030	30 kW	66 [1]	23

^[1] Sound pressure is based on Gen Set with Level 2 sound attenuated enclosure, full-load operating condition.

Our review of the package did not reveal any other significant noise sources, and ambient noise is not considered in this study.

To properly present this assessment, our noise modeling has assumed following scenarios: 1) the generator is operating in the full-load condition; 2) Marvair units are lead-lag and only one unit will run at any one time; 3) Ambient noise is not considered 4) other carriers on site are ignored and 5) despite the long setbacks to the adjacent property lines, our analysis does not include noise reduction factors such as air attenuation, vegetation, and ground effects, which become significant at large distances (+1,000 feet).

The site and its adjacent properties are located in unincorporated Humboldt County, and the telecommunications site sits within APN 209-291-017-000. The nearest adjacent property line with a residence on the property is located to the North East (APN 209-291-021-000) approximately **101 feet** from the equipment.

Generator is for emergency backup during power failure conditions. Generator is exercised once a week for one hour maximum during daytime hours only. A/C units run on lead lag and one at a time only. Unit will run during day and night time. Noise levels measurements per Table 1 calculated to the property line of the nearest residence is as follows:

Noise Source 'A' – Generator = 53 dBA Noise Source 'B' – Wall Mount A/C Unit = 41 dBA Combined Sources – Total of 53 dBA (will happen during daytime only)

Based on Humboldt County's recommendations, the maximum nighttime noise level at Residential regions is 60 dBA's at night and 65 dBA's during the day. The anticipated level of the wall mount A/C unit meets the nighttime standard. The anticipated noise level of the generator combined with the A/C unit meets the Daytime standard. As sound pressure levels attenuate with increasing distance from the sound source, noise levels due to the supporting equipment at all remaining surrounding property lines, are anticipated to be less than 60 dBA, meeting the noise standards outlined in this report.

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CONCLUSION

Based on the project documentation, our noise assessment indicates that the proposed AT&T Telecommunications Facility complies with requirements intended by Humboldt County at all adjacent 'Residential' property lines for all hourly noise metrics outlined in Table 4.10-4 above.

To avoid any misunderstanding, I hereby state that to the best of my knowledge, belief and professional judgment, this report represents an accurate appraisal of AT&T's equipment, based upon careful evaluation of Manufacturer's data to the extent reasonably possible.

Please reach out if I can be of further assistance.

Respectfully Submitted For the Firm,

2021.03.01 19:46:24-05'00'

Robert J Lara,

Attachment 3

Referral Agency Comments and Recommendations

Referral Agency	Response	Recommendation	On File	Attached
County Building Inspection Division				
County P/W, Land Use Division	✓	Approval	~	
Division of Environmental Health	✓	Approval	~	
Rio Dell Fire Protection District				
CalFire	✓	No Comment	~	
California Department of Fish and				
Wildlife				
Bear River Band (Tribal)				
Sinkyone Wilderness Council (Tribal)				
Wiyot Tribe				
Northwest Information Center	~	Contact local Tribes		