

**STAFF REPORT TO: AMADOR COUNTY PLANNING COMMISSION  
FOR MEETING OF: AUGUST 11, 2015**

**Item 2 - Public Hearing - Request for a Use Permit (UP-15;5-4) to add a 20-foot extension, twelve 8-foot panel antennae, 9 RRUs, a 15" microwave dish, and associated ground equipment to the existing 40-foot-tall communication tower located at 33502 Loop Road in Kirkwood (APN 026-270-016).**

**Applicant:** Epic Wireless on behalf of Verizon Wireless  
**Supervisorial District 3**

**Location:** 33502 Loop Road, at the northwest corner of the southernmost intersection with Kirkwood Meadow Drive in the Kirkwood Resort.

- A. General Plan Designation of Area:** S-P, Special Planning Area.
- B. Current Zoning:** "PD," Planned Development; Designated as "Service/Utilities and Parking Zone" per the 2003 Kirkwood Specific Plan.
- C. Description:** County Code requires a formal Use Permit for communication towers in excess of 50 feet, and communication tower extensions greater than 10 feet. Towers and extensions less than these thresholds can be authorized by staff-issued Use Permits. The original tower on the site was erected prior to the adoption of the Communication Tower ordinance.
- D. TAC Review and Recommendation:** This project was reviewed by TAC which found no technical objections to the Planning Commission approving the Use Permit subject to the Conditions of Approval and findings attached to the staff report. Staff also recommends the Commission find this project is not subject to CEQA and is Categorical Exempt per Section 15301 of the CEQA guidelines.
- E. Planning Commission Action:** After taking public comment a decision to either grant or deny the Use Permit with the proposed conditions (or as amended) can be made.
- F. Findings:** If the Planning Commission approves this Use Permit, the following findings are recommended for adoption:
1. The project, as proposed and conditioned, is consistent with the Amador County General Plan, the Kirkwood Specific Plan, and the "PD" zoning district at this location;
  2. The approval of the Use Permit is sanctioned by County Code Section 19.48.150 (Wireless Service Facilities) and is consistent with County Code Section 19.56.040 (Use Permit Findings) in that the establishment, maintenance or operation of proposed use will not be detrimental to the health, safety, peace, morals, comfort, and general welfare of the persons residing or working in the neighborhood of such proposed use or be detrimental or injurious to property and improvements in the neighborhood or the general welfare of the County.
  3. The project is not subject to CEQA pursuant to Section 15301 of the CEQA Guidelines in that it is a minor expansion of an existing facility and therefore a Categorical Exemption is hereby adopted and will be filed with the Amador County Recorder.

**PROPOSED**

**USE PERMIT CONDITIONS OF APPROVAL**

**FOR**

**EPIC WIRELESS GROUP – KIRKWOOD TOWER ADDITION**

**APPLICANT:** Epic Wireless Group on behalf of Verizon Wireless

**ADDRESS:** 8700 Auburn Folsom Rd., Suite 400, Granite Bay, CA 95746

**APN:** 026-270-016-000

**USE PERMIT NUMBER:** UP-15;5-4

**PLANNING COMMISSION APPROVAL DATE:**

**PROJECT DESCRIPTION:** Use Permit to add to the existing 40-foot communication tower a 20-foot lattice tower extension, 12 8-foot panel antennae, 9 RRUs, a 15-inch microwave dish, and associated ground equipment.

**LOCATION:** On the north side of Loop Rd. at the northwest corner of the southernmost intersection of Kirkwood Meadow Dr. and Loop Rd., being 33502 Loop Rd.

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**CONDITIONS OF APPROVAL:**

1. *This Use Permit shall not become valid, nor the use commence until such time as the Permittee is either found to be in compliance, or has agreed, in writing, to a program of monitoring mitigation measures acceptable to the County. At this time the permit shall be signed by the Planning Director and the use may commence.*
2. *Prior to issuance of the use permit, obtain any and all applicable permits from the Building Department, Environmental Health Department, and Transportation and Public Works Agency. THE BUILDING DEPARTMENT, ENVIRONMENTAL HEALTH DEPARTMENT AND TRANSPORTATION AND PUBLIC WORKS AGENCY AND PLANNING DEPARTMENT SHALL MONITOR THIS CONDITION.*
3. The project, as constructed, shall be substantially the same as the project approved. THE PLANNING DEPARTMENT SHALL MONITOR THIS CONDITION.
4. Colors and materials used for this project shall blend with existing structures and vegetation. THE PLANNING AND BUILDING DEPARTMENTS SHALL MONITOR THIS CONDITION.
5. No lighting shall be allowed other than for security lighting on the ancillary equipment buildings. All security lighting shall be shielded from roadways, traffic and other properties. THE PLANNING AND BUILDING DEPARTMENTS SHALL MONITOR THIS CONDITION.

### **19.48.150 Commercial wireless service facilities.**

- A. Purpose. This section provides for the orderly development of wireless service facilities to encourage appropriate locations, protect the character of neighborhoods and communities, reduce the potential for health and safety hazards, and maintain the visual quality of Amador County, especially along highways and roadways.
- B. Allowed Zone Districts. Wireless service facilities and ancillary equipment buildings shall only be allowed in the following zone districts (except those described in subsection C of this section): "A," "AG," "C-1," "C-2," "H," "LM," "MM," "M," and "TPZ"; on parcels twenty acres or larger in size in the "R1-A" and "X" zone districts when located in the following General Plan classifications: A-G, A-M, A-U, MRZ, and G-F; and on parcels, regardless of zoning or size, owned by a public entity or public utility located in the PS General Plan classification.
- C. Permitted without a Use Permit. Facilities that are building mounted or totally enclosed within a building shall be permitted in any zone district. Building mounted facilities in a residential or other zone district shall be located or screened so as to prevent any public view or shall be architecturally designed to appear as an integral part of the building on which it is attached. The height is limited to that allowed in the district in which located.
- D. Staff Issued Use Permits. Use permits may be issued by the planning department staff for wireless service facilities which are up to fifty feet in height, provided the application and approval are consistent with subsections F and G of this section. Prior to issuing a permit, the planning department staff shall notify affected property owners (as determined by the planning department staff). If the planning department receives opposition to the permit application within ten calendar days after notifying affected property owners, the permit may be denied. The applicant or any interested person may appeal the planning department decision pursuant to Chapter [19.64](#) of this title within ten calendar days after said decision. Approved use permits shall become valid following the ten-day appeal period if no appeals are filed.
- E. Permitted with an Approved Use Permit. Wireless service facilities more than fifty feet in height and ancillary equipment buildings shall be allowed upon approval of a conditional use permit in the allowed zone districts (listed in subsection B of this section) in accordance with Chapter [19.56](#) (Use Permits) of the Amador County Code.
- F. Application Requirements. The following shall apply to all applications for wireless service facilities:
1. Alternate Site and Network Analysis. As part of a complete application, the applicant shall submit proof that all alternate sites have been explored and analyzed. The method of analysis shall be reviewed by the planning department staff. The applicant shall provide a map and analysis of existing facilities and a report explaining why co-location is not feasible.
  2. Photo Simulations. As part of a complete application, the applicant shall submit relevant colored photo simulations acceptable to the planning department staff of the proposed wireless services facility from all relevant view sheds, roadways and neighboring properties.
  3. RF Requirements. The application for a use permit shall contain a report or summary of the estimates of the non-ionizing radiation generated by the facility. The report shall include estimates of the maximum electric and magnetic field strength at the edge of the facility site, the extent that measurable fields extend in all directions from the facility.
- G. Development Standards.
1. Aesthetic Considerations. Decisions on all use permits shall take into consideration the aesthetic impact of the proposed wireless service facility and shall include conditions of approval to minimize the visual impact of the wireless service facility as seen from roadways and other properties should any adverse effects be noted. Facilities that are judged to adversely affect the visual quality of the county shall be denied. Colors and materials shall blend with existing structures and vegetation.
  2. Screening. Any new support facilities, including ancillary equipment buildings, visible from residential properties or from major arterial streets shall be screened or camouflaged to mitigate adverse visual impacts.
  3. Skyline. Facilities shall not adversely affect public views of skylines or skyline views from other properties. The scale of all facilities shall be consistent with existing structures and vegetation. The height of facilities shall not exceed existing tree lines or buildings along a skyline by more than fifteen feet.
  4. Lighting. No lighting on wireless service facilities shall be allowed. Security lighting may be allowed on ancillary equipment buildings if approved with a conditional use permit. All security lighting shall be shielded from roadways, traffic and other properties.
  5. Setbacks. All wireless service facilities shall have a minimum building setback from all property lines and public road rights-of-way equal to the height of the facility. Setback waivers shall be approved through the conditional use permit process.

6. FAA Recommendations. The recommendations outlined in the FAA Advisory Circular pertaining to the marking of hazards shall be applied by staff in a prudent manner on a case by case basis.
- H. Co-location. A use permit shall be required for all co-located facilities that will extend an existing site or structure by more than ten feet above the originally permitted structure and are subject to the application requirements and development standards of this section.
- I. Other Considerations. Wireless service facilities are subject to all other applicable regulations and permits, including those of the Public Utility Commission (PUC) of the state of California and the Federal Communications Commission (FCC). A building permit is required for all wireless service facilities and ancillary equipment buildings.
- J. Abandoned Wireless Facilities. All wireless service facilities (referred to as "facilities") and equipment that are not used for a period of six months shall be removed from the site and the site cleared of any debris by the permittee within ninety days after notice from the county. If the permittee has not done so within such ninety-day period, the county may effect the removal using the bond described in subsection K of this section.
- K. Security. At the time any permittee obtains a permit for a wireless service facility or other equipment, the permittee shall provide a performance bond in the amount of one hundred percent of the county's estimated cost for removal of the facility and other equipment, including administrative costs. Said amounts may be revised by the county. The bond shall be utilized by the county in the event that the permittee fails to remove the facility and/or other equipment. If the cost of removal thereof exceeds the bond amount, the landowner, if a different person or entity from the permittee, shall remove the remaining portions of the facility and/or other equipment at the landowner's expense or pay to the county the costs necessary to complete the removal.
- L. Definitions. As used in this section, the following terms shall have the meaning indicated:
1. Wireless Service Facility. This term shall refer to all facilities providing wireless service, such as towers, lattice towers, guy-wired towers, poles, monopoles, rods, antennas, panel antennas, whip antennas, cellular communication systems, microwave dishes, equipment shelters, reflecting discs or similar devices used for the transmission and/or reception of electromagnetic waves.
  2. Height. "Height" shall mean, when referring to a tower (as part of a wireless service facility) or other structure, the distance measured from the ground level to the highest point on the facility or other structure which is greater than two inches in diameter.
  3. Radio Frequency (RF). The portion of the electromagnetic spectrum between the audio-frequency portion and the infrared portion. (Ord. 1698 §3, 2010: Ord. 1548 §4, 2002).

## Chapter 19.56 USE PERMITS

### Sections:

<a href="#">19.56.010</a>	When issued.
<a href="#">19.56.020</a>	Application.
<a href="#">19.56.030</a>	Public hearings.
<a href="#">19.56.040</a>	Action by planning commission.
<a href="#">19.56.045</a>	Effect of condition requiring zoning or general plan change.
<a href="#">19.56.050</a>	Appeal.
<a href="#">19.56.060</a>	Revocation.
<a href="#">19.56.065</a>	Amendment.

### **19.56.010 When issued.**

Use permits, revocable, conditional, or valid for a term period may be issued for any of the uses or purposes for which such permits are required or permitted by the terms of this title. (Ord. 351 §14(part), 1962).

### **19.56.020 Application.**

Application for use permit shall be made to the planning commission in writing on a form prescribed by the commission and shall be accompanied by plans and elevations necessary to show the detail of the proposed use or building. Such application shall be accompanied by the required fee, no part of which shall be returnable to the applicant. (Ord. 898 §5, 1982).

### **19.56.030 Public hearings.**

The planning commission may hold a public hearing on any application for a use permit. The planning commission shall give notice thereof as required by California Government Code Section [65090](#) et seq., as may be amended or renumbered. (Ord. 1701 §3, 2010; Ord. 351 §14.2, 1962).

### **19.56.040 Action by planning commission.**

In order to grant any use permit, the findings of the planning commission shall be that the establishment, maintenance or operation of the use or building applied for will not under the circumstances of the particular case be detrimental to the health, safety, peace, morals, comfort and general welfare of persons residing or working in the neighborhood of such proposed use or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the county; provided, that if any proposed building or use is necessary for the public health, safety and general welfare, the finding shall be to that effect. The planning commission may designate such conditions in connection with the use permit as it deems necessary to secure the purposes of this title, and may require such guarantees and evidences that such conditions are being or will be complied with.

If the planning commission finds that the carrying out of the proposed use may cause injury or damage beyond normal wear and tear to any county road, or may impair the public's use thereof, or may endanger persons or property on or adjacent to any county road, the planning commission shall require as a condition to the issuance of any use permit that the applicant and the board of supervisors enter into an agreement which may reasonably restrict the use of said roads by the applicant in carrying out the proposed use to the extent necessary to protect said roads, persons, and property. Said agreement may require the applicant to pay for such injury or damage proximately caused by the carrying out of the permitted use and for any special maintenance of or improvements to said roads made necessary by the carrying out of the permitted use. No use permit which requires the formation of an agreement with said board of supervisors as described in this section shall be effective until said agreement has been finalized. (Ord. 537 §1, 1975; Ord. 351 §14.3, 1962).

### **19.56.045 Effect of condition requiring zoning or general plan change.**

Whenever a use permit is approved by the planning commission with a condition that a change in the parcel's zoning and/or general plan designation be approved or reviewed by the board of supervisors before the use permit becomes effective, the hearing by said board on the required zoning and/or general plan change shall be deemed to be a de novo appeal from the planning commission's granting of the use permit, so that at said hearing said board may add, delete or modify conditions of the use permit or deny said use permit in its entirety. (Ord. 1136 §1, 1987).

### **19.56.050 Appeal.**

A. An interested person is any individual, public entity, public agency, corporation, or association who has, or any of whose constituents, shareholders or members has, a substantial interest which is or may be adversely affected by the action of the planning commission. The head of any county department whose department's (written and filed) policy, program, goal or position is not implemented by the planning commission's action, and any member of the board of supervisors acting in the public interest, is an interested person for the purpose set forth in this section.

- B. Any interested person not satisfied with the action of the planning commission may within ten days of said action appeal in writing to the board of supervisors. Such request shall be filed with the clerk of the board. Each person so appealing shall pay the required fee to said clerk.
- C. The board shall thereupon set a date for the public hearing on the appeal and shall decide the matter as provided herein within forty-five days from the date of the filing of the appeal. If the board fails to decide the matter within said time, the decision of the planning commission shall thereupon be deemed final.
- D. If more than one appeal has been filed, the board shall consolidate the public hearing on such appeals. The clerk of the board shall give written notice of the public hearing to all persons appealing the same matter, to all other persons who have filed with the clerk of the board a request for special notice of any such hearing, and to all other persons entitled by law to notice, and, in addition, said clerk shall also publish and post general notice as provided in Section [19.56.030](#).
- E. After the hearing, which shall be de novo, the board shall grant, deny, or grant with such conditions as it deems just and appropriate, the use permit as requested from the planning commission by the applicant.
- F. No use permit granted by the planning commission shall be effective until the time allowed to file an appeal from the granting thereof has passed. The timely filing of an appeal shall automatically stay the effectiveness of the use permit until such time as the matter is decided by action of the board or by the expiration of the time within which the board must act. (Ord. 1189 §2, 1988).

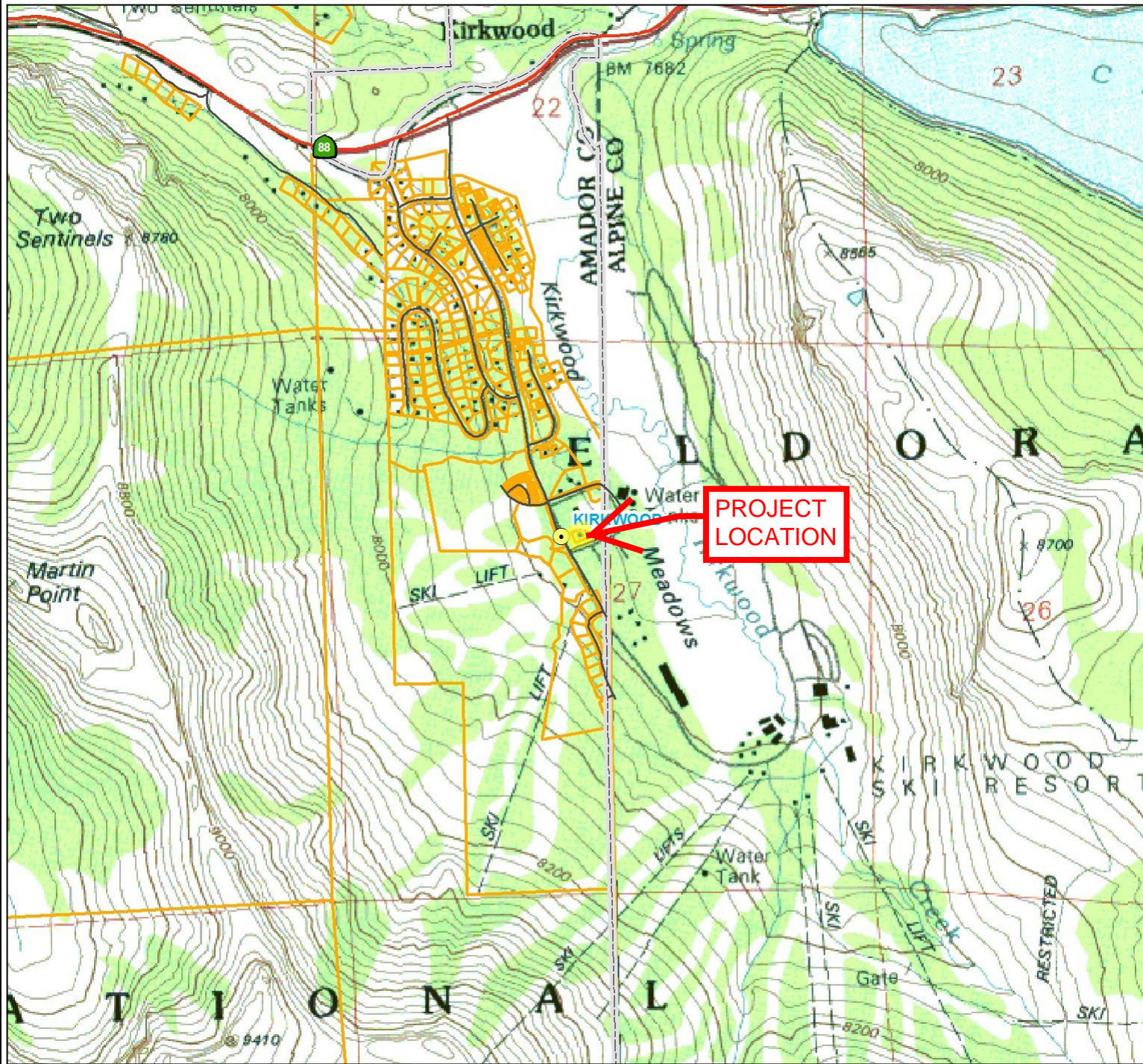
#### **19.56.060 Revocation.**

- A. In any case where the permittee has not substantially complied with the conditions of a use permit, the land use agency shall give writ ten notice by first-class mail to the permittee of the alleged noncompliance, which notice shall state with specificity the respects in which the permittee is not in compliance, and shall give the permittee thirty days from the date of mailing said notice in which to comply with use permit conditions. If the permittee is not in compliance with the use permit conditions at the end of the thirty-day period, then grounds shall exist for the land use agency to commence use permit revocation proceedings pursuant to subsection C of this section.
- B. If the use permit approval contains conditions precedent to issuance of the permit, which conditions have not been satisfied within two years after the date of approval of the use permit, the permittee shall submit to the land use agency, on or before the two-year anniversary date of approval of the use permit, a written report explaining why the conditions precedent have not been satisfied, including any supporting photographs and/or documentation, which report shall show the progress made by the permittee toward satisfaction of the conditions precedent to issuance of the use permit, and an estimate of time necessary to comply with such conditions and obtain issuance of the use permit. Failure to timely submit such report to the land use agency, or failure to demonstrate satisfactory progress toward compliance with conditions precedent to issuance of a use permit, shall constitute grounds for the land use agency to commence use permit revocation proceedings pursuant to subsection C of this section.
- C. The procedure for revocation of use permits shall be as follows: upon a determination by the land use agency that grounds exist for revocation of a use permit, pursuant to either subsection A or B of this section, said agency shall send written notice by certified mail, return receipt requested, to the permittee at the last known address given by the permittee to the land use agency. Such notice shall specify the grounds upon which revocation of the use permit is sought, and shall state the date and time (not less than thirty days later than the date the notice was mailed) that the matter of the proposed revocation of the use permit shall be heard by the planning commission. At the conclusion of such hearing, the planning commission may or may not revoke the use permit. The determination of the planning commission to revoke or not revoke the use permit shall be subject to appeal by any interested party in the manner specified in Section [19.64.040](#) of this title. (Ord. 1384 §3, 1995).

#### **19.56.065 Amendment.**

In addition to those instances in which a use permit is required elsewhere in this code, a use permit shall be required for:

- A. Any substantial amendment to a prior approved use permit, including but not limited to a requested change in conditions;
- B. Any addition to or expansion of a use operating pursuant to a prior approved use permit;
- C. Any addition to or expansion of a use requiring but not operating pursuant to a use permit because said use predates the zoning requiring a use permit. (Ord. 1136 §2, 1987).



### Elevation Map

- Cities and Communities
- Transportation
  - One Way Road
  - Primary Road
  - Secondary Road
  - County Route
  - State Highway
  - Unimproved Road
- Administrative Boundaries
  - ▣ City Limits
  - ▣ Amador County Boundary
  - ▣ Parcels



1" = 1366 ft

Aerial photography, if displayed,  
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#### Notes



The County of Amador assumes no responsibility arising from use of this information. THE MAPS AND ASSOCIATED DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, expressed or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Do not make any business decisions based on this data before validating your decision with the appropriate County Office.

Amador County GIS Viewer

Amador County Information Technology Dept.  
810 Court St, Jackson CA 95642

August 6, 2015



8700 Auburn Folsom Road, Suite 400  
Granite Bay, CA 95746  
(916) 834-0834

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May 15, 2015

Amador County  
County of Administration Center  
810 Court St.  
Jackson, CA 95642

Re: Application for a Use Permit  
33503 Loop Rd, Kirkwood, CA 95646  
APN: # 026-270-016

**Project Justification**

Verizon Wireless recently purchased Golden State Cellular. Verizon is in the process of upgrading all of the newly acquired sites to improve coverage and to begin offering LTE services to our customers in the area. We are very excited about these upgrades as are the customers who will be able to begin enjoying the improved coverage. Verizon currently has equipment at an unmanned lattice tower located at 33502 Loop Road in Kirkwood which is owned by Volcano Communications. We are proposing an upgrade of this site to increase the footprint of the coverage as well as to accommodate the required equipment to offer LTE services.

**Requested Entitlement and Project Description**

Verizon respectfully requests approval of a Use Permit for the installation of a 20' lattice tower extension. This extension of the existing 40' lattice tower will increase the total height of the tower to 60'. Verizon will install twelve 8' panel antennas, 9 RRUS and a 15" Microwave on the proposed extension. No existing towers were identified in the coverage area. Verizon currently has a presence at this site. The location of this site and the natural terrain provide an excellent vantage point to cover a large area.

**Summary**

Verizon has used existing structures whenever possible in designing their network. This proposal to upgrade our existing site will dramatically improve coverage in the area of this site by increasing the coverage area as well as allowing for Verizon to begin offering LTE services.

We respectfully request approval for this upgrade.

Sincerely,  
  
Karen Lienert



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**APPLICATION PROCEDURE FOR USE PERMIT**

A Public Hearing before the Planning Commission will be scheduled after the following information has been completed and submitted to the Planning Department Office:

- X  1. Complete the following:  
 Name of Applicant  Verizon Wireless – Karen Lienert for Epic Wireless   
 Mailing Address  8700 Auburn Folsom Road, #400, Granite Bay, Ca 95746   
 Phone Number  (916) 834-0834   
 Assessor Parcel Number  026-270-014   
 Zoning District  PD  General Plan Designation  SP
  
- X  2. Use Permit Applied For:  
 X  Excessive Height  
    Sea Land Container  
 \*\*     Bed and Breakfast Inn  
 \*\*     Sign Program  
 \*\*  X  Other  Extend height of existing lattice telecom tower
  
- X  3. Attach a letter explaining the purpose and need for the Use Permit.
- X  4. If Applicant is not the property owner, a consent letter must be attached.
- X  5. Attach a copy of the deed for the property (can be obtained from the County Recorder's Office).
- X  6. Assessor Plat Map (can be obtained from the County Surveyor's Office).
- X  7. Plot Plan (no larger than 11" X 17") of parcel showing location of request in relation to property lines, road easements, other structures, etc. (see Plot Plan Guidelines). Larger map(s) or plans may be submitted if a photo reduction is provided for notices, Staff Reports, etc. The need is for easy, mass reproduction.
- X  8. Planning Department Filing Fee:  \$ 575.00
- X  Public Works Agency Review Fee:  \$ 500.00  Rep. Initials
- X  Environmental Health Review Fee:  \$ 192.00  Rep. Initials
- X  Amador Fire Protection District Fee:  \$ 0  Rep. Initials
- X  9. If necessary, complete an Environmental Information Form (ask Planning Department Staff).

**\*\* Public Works Agency, Environmental Health Department, and Amador Fire Protection Fees apply.**

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**ENVIRONMENTAL INFORMATION FORM**

To be completed by applicant; use additional sheets as necessary.  
Attach plans, diagrams, etc. as appropriate.

PLANNING DEPARTMENT

**GENERAL INFORMATION**

Project Name: Verizon Wireless "Kirkwood" Modification

Date Filed: \_\_\_\_\_ File No. \_\_\_\_\_

Applicant/

Developer Verizon Wireless / Karen Lienert Landowner Volcano Telephone Co

Address 255 Parkshore Drive, Folsom, CA 95630 Address PO Box 1070, Pine Grove, CA 95665

Phone No. 916-834-0834 Phone No. 209-296-1427

Assessor Parcel Number(s) 026-270-010

Existing Zoning District PD

Existing General Plan SP

List and describe any other related permits and other public approvals required for this project, including those required by city, regional, state, and federal agencies Building permit, FCC, CPUC

**WRITTEN PROJECT DESCRIPTION** (Include the following information where applicable, as well as any other pertinent information to describe the proposed project):

1. Site Size
2. Square Footage of Existing/Proposed Structures
3. Number of Floors of Construction
4. Amount of Off-street Parking Provided (provide accurate detailed parking plan)
5. Source of Water
6. Method of Sewage Disposal
7. Attach Plans
8. Proposed Scheduling of Project Construction
9. If project to be developed in phases, describe anticipated incremental development.
10. Associated Projects
11. Subdivision/Land Division Projects: Tentative map will be sufficient unless you feel additional information is needed or the County requests further details.
12. Residential Projects: Include the number of units, schedule of unit sizes, range of sale prices or rents and type of household size expected.
13. Commercial Projects: Indicate the type of business, number of employees, whether neighborhood, city or regionally oriented, square footage of sales area, and loading facilities.
14. Industrial Projects: Indicate type, estimated employment per shift, and loading facilities.
15. Institutional Projects: Indicate the major function, estimated employment per shift, estimated occupancy, loading facilities, and community benefits to be derived from the project.
16. If the project involves a variance, conditional use permit, or rezoning application, state this and indicate clearly why the application is required.

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**ADDITIONAL INFORMATION** Are the following items applicable to the project or its effects? Discuss below all items checked "yes" (attach additional sheets as necessary).

YES NO

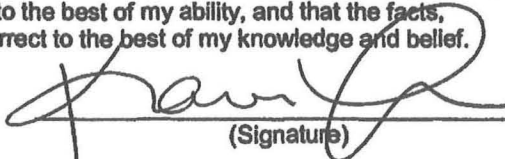
- 17. Change in existing features or any lakes or hills, or substantial alteration of ground contours.
- 18. Change in scenic views or vistas from existing residential areas, public lands, or roads.
- 19. Change in pattern, scale, or character of general area of project.
- 20. Significant amounts of solid waste or litter.
- 21. Change in dust, ash, smoke, fumes, or odors in the vicinity.
- 22. Change in lake, stream, or ground water quality or quantity, or alteration of existing drainage patterns.
- 23. Substantial change in existing noise or vibration levels in the vicinity.
- 24. Site on filled land or has slopes of 10 percent or more.
- 25. Use or disposal of potentially hazardous materials, such as toxic substances, flammables, or explosives.
- 26. Substantial change in demand for municipal services (police, fire, water, sewage, etc.).
- 27. Substantially increase fossil fuel consumption (electricity, oil, natural gas, etc.).
- 28. Does this project have a relationship to a larger project or series of projects?

**ENVIRONMENTAL SETTING**

- 29. Describe the project site as it exists before the project, including information on topography, soil stability, plants and animals, and any cultural, historical or scenic aspects. Describe any existing structures on the site, and the use of the structures. Attach photographs of the site (cannot be returned).
- 30. Describe the surrounding properties, including information on plants and animals and any cultural, historical, or scenic aspects. Indicate the type of land use (residential, commercial, etc.), intensity of land use (one family, apartment houses, shops, department stores, etc.), and scale of development (height, frontage, setback, rear yard, etc.). Attach photographs of the vicinity (cannot be returned).
- 31. Describe any known mine shafts, tunnels, air shafts, open hazardous excavations, etc. Attach photographs of any of these known features (cannot be returned).

Certification: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date \_\_\_\_\_



(Signature)

For Karen Lienert, Epic Wireless

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PLANNING DEPARTMENT

LETTER OF AUTHORIZATION

TO: Amador County

RE: APPLICATION FOR ZONING AND BUILDING PERMITS

**Volcano Telephone Company**, as owners of the below-described property, do hereby appoint Verizon Wireless and its employees, agents and contractors, as agent for the purpose of consummating any application and obtaining any and all governmental permits and approvals to construct, maintain and operate mobile/wireless communications facilities on the below-described property. The undersigned understand that the application may be denied, modified or approved with conditions and that such conditions or modifications must be complied with prior to issuance of permits or approvals.

Address: 33503 Loop Road, Kirkwood

Assessor's Parcel Number: 026-270-016

Signature of Property Owners:

By: 

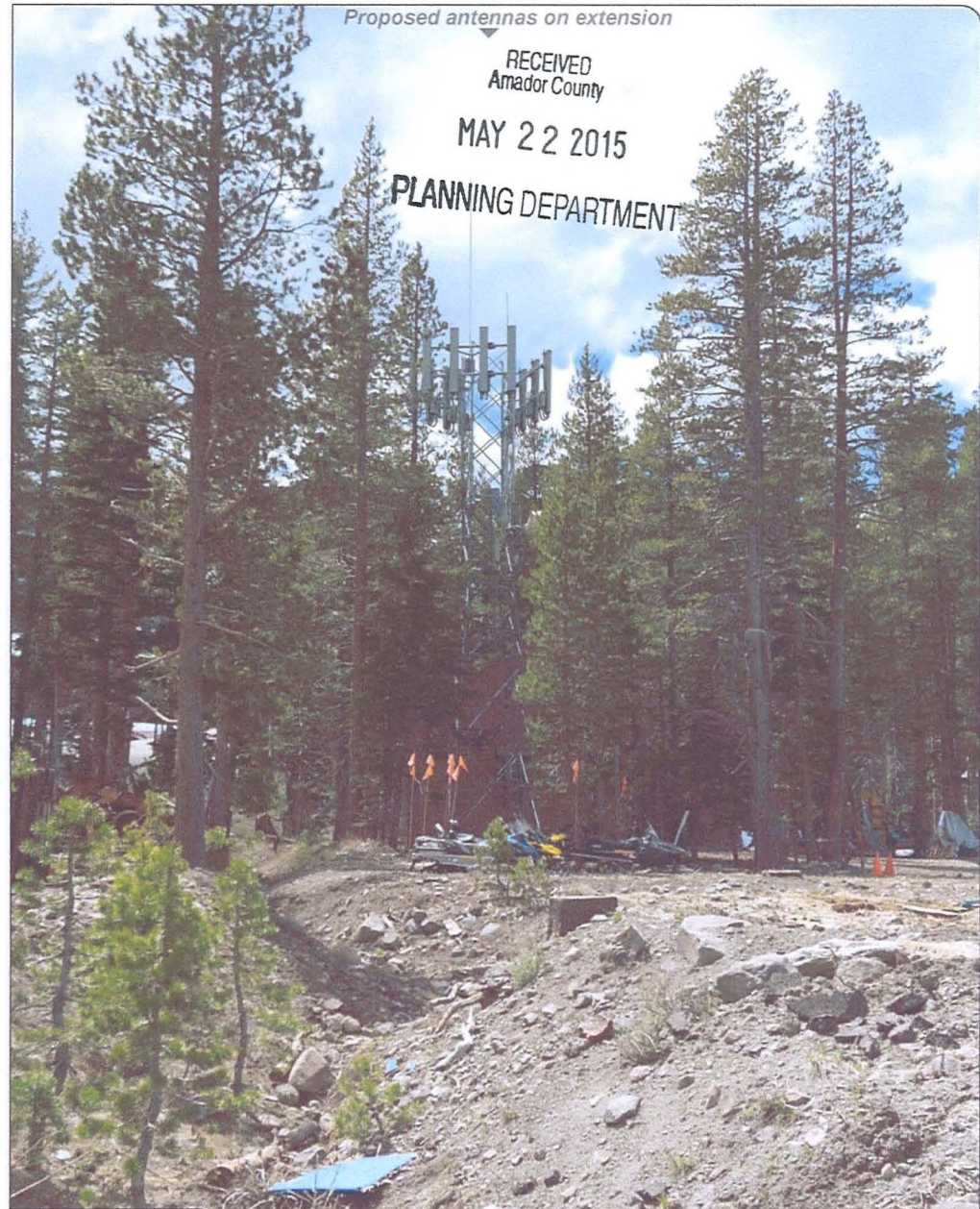
Name: JOHN M LUNDGREN

Date: 05-15-15

### Photosimulation of the view looking west from around the back maintenance area.



Existing lattice tower to be extended up by 20 ft.



Proposed antennas on extension

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**Existing**  
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**Kirkwood**

33503 Loop Rd  
Kirkwood, CA 95646



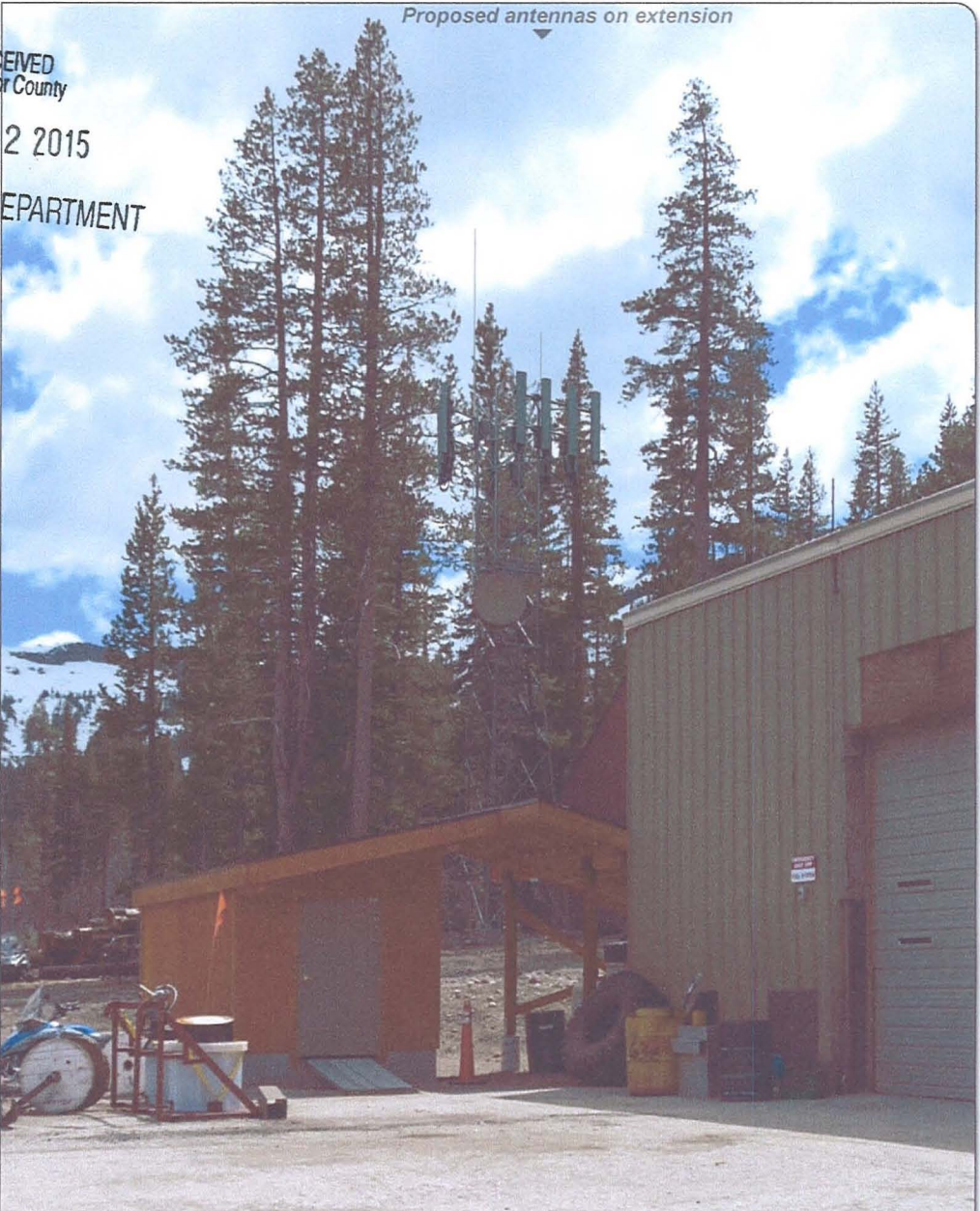
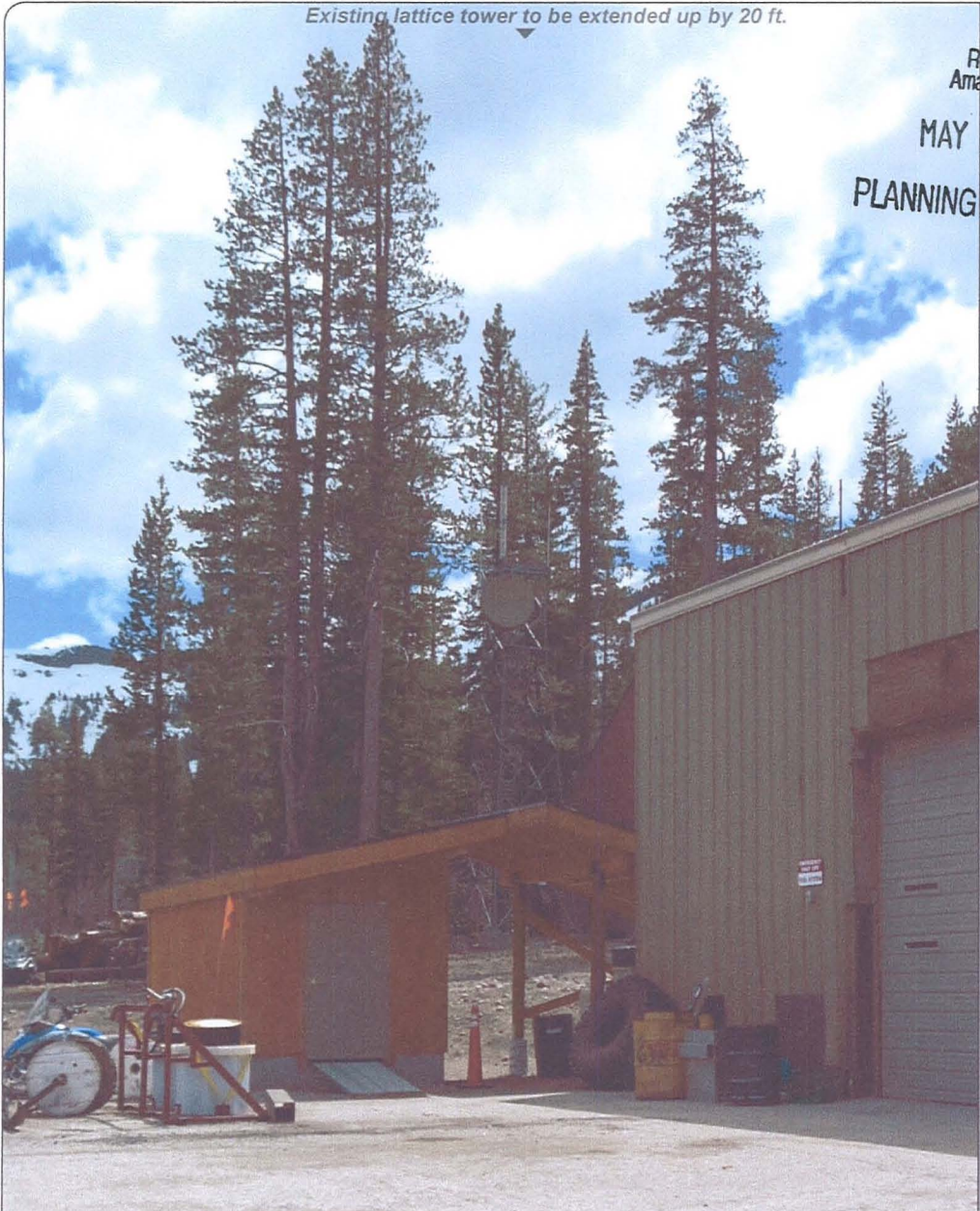
**Proposed**  
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### Photosimulation of the view looking south from the workshop area.

Existing lattice tower to be extended up by 20 ft.

Proposed antennas on extension

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**Existing**  
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**Kirkwood**

33503 Loop Rd  
Kirkwood, CA 95646



**Proposed**  
Page 14 of 21



**Existing**

Photosimulation of the view looking east from the nearest point along Kirkwood Meadows Drive.

**Kirkwood**

33503 Loop Rd  
Kirkwood, CA 95646



Proposed 20 ft lattice extension

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**WATERFORD**  
 COMPLIANCE...FROM START TO SIGNAL

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**Radio Frequency Emissions Compliance Report For Verizon Wireless**

<b>Site Name:</b> Kirkwood RSA3	<b>Site Structure Type:</b> Tower
<b>Address:</b> 33503 Loop road Pioneer , CA 95646	<b>Latitude:</b> 38.689783
<b>Report Date:</b> May 14, 2015	<b>Longitude:</b> -120.073165
	<b>Project:</b> Modification

**General Summary**

Verizon Wireless has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed modification of the Kirkwood RSA3 site located at 33503 Loop road, Pioneer, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs, observational data collected on site and operational parameters provided by Verizon Wireless.

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.

Frequency (MHz)	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlled Exposure	
	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1	30	5	6



Kirkwood RSA- Modification 051415

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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 particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as 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**

Waterford Consultants, LLC field personnel visited the site on May 6, 2015 during business hours and collected data with regard to the RF environment. All accessible areas of the site were inspected. Measurement collection was performed using Narda Radiation meter NBM 550 and broadband probe EA-5091 (300 kHz to 50 GHz) and was consistent with FCC and Narda procedures, regarding the location of the probe to the RF source and making slow sweeping motions over the area that a person would occupy. Power density values were recorded as a percentage of the FCC Occupational limits. The maximum power density reading at ground level was 0.021% of the FCC Occupational limits (0.105% of the General Population limits).

Verizon Wireless proposes to install twelve (12) panel-type antennas to be oriented toward 90, 210 and 330 degrees. The antennas will be mounted on an modified tower 56 feet above the ground level. From this site, Verizon Wireless will enhance voice and data services to surrounding areas in licensed 700, 850 and 2100 MHz bands. The Effective Radiated Power (ERP) in any direction will not exceed 9,013 Watts. No other wireless operators are known to be located at this site. However, the contributions to existing RF levels at this site by any other operators are represented in the survey results.

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, serve 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 operations is 0.541% of the FCC General Population limits. At the roof level of the nearest structure, the maximum predicted power density level resulting from all operations is 0.867% of the FCC General Population limits.

**(P) GENERAL NOTES**

- THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS (WHERE REQUIRED) OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY, DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF VERIZON WIRELESS (WHERE REQUIRED) AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY VERIZON WIRELESS (WHERE REQUIRED).
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. DISCREPANCIES WILL BE REPORTED IMMEDIATELY TO VERIZON WIRELESS (WHERE REQUIRED). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTOR(S).
- A COPY OF GOVERNING AGENCY APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE PLANS ARE NOT TO BE USED BY THE WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION AS GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS, IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES UNDER THE DIRECT CARE OF THE SUPERINTENDENT. THE CONTRACTOR SHALL SUPPLY VERIZON WIRELESS (WHERE REQUIRED), WITH A COPY OF ALL REVISIONS, ADDENDA, AND/OR CHANGE ORDERS AT THE CONCLUSION OF THE WORK AS A PART OF THE AS-BUILT DRAWING RECORDS.
- THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR, OR SUBCONTRACTOR AS SPECIFIED IN THE AGREEMENT BETWEEN SUBCONTRACTOR AND CONTRACTOR, SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGE BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- THE REFERENCES ON THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF ANY DRAWING OR DETAIL.
- ALL CONSTRUCTION THROUGHOUT THE PROJECT SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS, EXCEPT WHERE EXEMPTED.
- ALL GLASS AND GLAZING IS TO COMPLY WITH CHAPTER 54 OF THE U.S. CONSUMER SAFETY COMMISSION SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (42 CFR 1428, CFR PART 1201) AND LOCAL SECURITY REQUIREMENTS.
- ALL EXISTING CONSTRUCTION, EQUIPMENT, AND FINISHES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE WITH THE FOLLOWING EXCEPTIONS:
  - PROPERTY NOTED TO BE RETURNED TO THE OWNER.
  - PROPERTY NOTED TO BE REMOVED BY THE OWNER.
- THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
- WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER ROUGH FRAMED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING AND/OR BRACING IS TO BE PROVIDED WHERE THE STRUCTURE HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCE. VERIZON WIRELESS (WHERE REQUIRED) IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM THIS PRACTICE. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.
- PRIOR TO THE POURING OF ANY NEW SLAB OVER AN EXISTING SLAB THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, CHASES, AND EQUIPMENT WHICH ARE TO BE IMPLEMENTED INTO THE NEW WORK. ALL ITEMS DESIGNATED TO BE ABANDONED SHALL BE NOTED AND DISCUSSED WITH THE OWNER AND VERIZON WIRELESS (WHERE REQUIRED) AS PART OF THE AS-BUILT DRAWING PACKAGE.
- BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING, CONSTRUCTION, AND ANY OTHER PROJECT EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- OWNER, CONTRACTOR, AND VERIZON WIRELESS (WHERE REQUIRED) SHALL MEET JOINTLY TO VERIFY ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
- THE PROJECT, WHEN COMPLETED, SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE-24 ENERGY CONSERVATION REQUIREMENTS. (TITLE-24 WHEN APPLICABLE)
- NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL MATCH IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.
- CONTRACTOR TO REPLACE AND/OR REROUTE ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND GENERAL CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR SLEEVES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND COMPLETE JOB.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A PROJECT LEVEL, STRAIGHT, AND TRUE ACCORDING TO THE PLANS. THE CONTRACTOR SHALL COMPARE THE LINES AND LEVELS OF THE EXISTING CONDITIONS WITH THOSE SHOWN ON THE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. VERIZON WIRELESS (WHERE REQUIRED) SHALL BE NOTIFIED OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES.
- WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AND/OR REVISIONS AVAILABLE AS REQUIRED BY THE GOVERNING

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- AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STORAGE OF ALL MATERIALS AND SHALL NOT DO SO ON PUBLIC PROPERTY WITHOUT A PERMIT TO DO SO FROM THE GOVERNING AGENCIES FOR THIS PURPOSE.
- GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC., SO AS TO BE RECEIVED PROPERLY BY THE WORK OF OTHER TRADES.
- ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT PREMISES AND SHALL BE LEFT IN A CLEAN (BROOM FINISH) CONDITION AT ALL TIMES BY EACH TRADE AS THEY PERFORM THEIR OWN PORTION OF THE WORK.
- VERIZON WIRELESS (WHERE REQUIRED) DOES NOT GUARANTEE ANY PRODUCTS, FIXTURES, AND/OR ANY EQUIPMENT NAMED BY A TRADE OR MANUFACTURER. GUARANTEE OR WARRANTY THAT MAY BE IN EFFECT IS DONE SO THROUGH THE COMPANY OR MANUFACTURER. PROVIDING THE PRODUCT, FIXTURE, AND/OR EQUIPMENT ONLY. UNLESS SPECIFIC RESPONSIBILITY IS ALSO PROVIDED BY THE CONTRACTOR/SUBCONTRACTOR IN WRITTEN FORM.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATERTIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR THE SAFETY OF THE OWNER'S EMPLOYEES, WORKMEN, AND ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN PERMIT AND MAKE FINAL PAYMENT FOR SAID DOCUMENT.
- THE ARCHITECT/ENGINEER IN CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND/OR SPECIFICATIONS.
- FIRE EXTINGUISHER REQUIREMENTS SHALL BE VERIFIED WITH THE LOCAL FIRE MARSHALL.
- VERIZON WIRELESS (WHERE REQUIRED) WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT. VERIZON WIRELESS (WHERE REQUIRED) PROJECT APPROVAL OF A SEPARATE ITEM SHALL NOT INCLUDE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS.
- CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO PLACEMENT OF MONOPOLE FOOTING AND OTHER STRUCTURES TO BE PLACED IN GROUND. SEE GENERAL NOTE #6 ON THIS SHEET.
- SEE CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION.
- CONTRACTOR TO PROVIDE TRENCH AS REQUIRED TO INSTALL BOTH ELECTRICAL AND TELEPHONE UNDERGROUND CONDUITS (#40 PVC) PER S.C.E. WORKORDER. BACKFILL WITH CLEAN SAND AND COMPACT TO THE SATISFACTION OF THE DISTRICTS INSPECTOR. REPLACE FINISH GRADE WITH MATCHING MATERIALS (GRASS, ASPHALT, CONCRETE, ETC.)
- CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL USA NORTH AT 1-800-227-2800 AT LEAST 72 HOURS BEFORE DIGGING.
- CONTRACTOR TO PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
- CONTRACTOR TO PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.
- CONTRACTOR TO REPLACE LANDSCAPE VEGETATION THAT WAS DAMAGED DUE TO CONSTRUCTION, AND TO MODIFY REMAINING IRRIGATION LINES TO OPERATING CONDITION, PROVIDING FULL COVERAGE TO IMPACTED AREAS.
- THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.



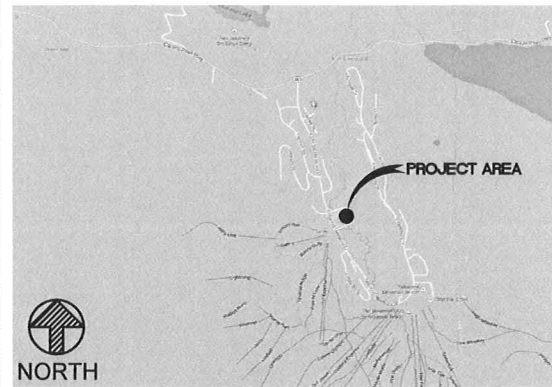
**KIRKWOOD**  
33503 LOOP RD, KIRKWOOD, CA 95646

(MW SHOOTING TO KIRKWOOD CHAIR 2)

CA3/MW PROJECT ID: 20141087651

PS LOCATION #: 300586

**VICINITY MAP**



**DIRECTIONS TO SITE FROM VERIZON**

- FROM: 255 PARKSHORE DRIVE, FOLSOM, CA 95630  
TO: 33503 LOOP RD, KIRKWOOD, CA 95646
- GET ON US-50 E FROM PARKSHORE DR AND PRAIRIE CITY RD 5 MIN (2.8 MI)
  - FOLLOW US-50 E TO LATROBE RD IN EL DORADO HILLS. TAKE THE LATROBE RD EXIT FROM US-50 E 4 MIN (4.3 MI)
  - MERGE ONTO LATROBE RD TAKE CA-49 S TO RIDGE RD IN SUTTER CREEK 11 MIN (9.6 MI)
  - FOLLOW RIDGE RD TO CA-88 E IN PINE GROVE 12 MIN (8.3 MI)
  - SLIGHT LEFT ONTO CA-88 E CONTINUE ON KIRKWOOD MEADOWS DR. DRIVE TO LOOP RD 2 MIN (0.9 MI)
  - TURN RIGHT ONTO KIRKWOOD MEADOWS DR 0.7 MI
  - TURN LEFT ONTO LOOP RD DESTINATION WILL BE ON THE LEFT 0.2 MI

33503 LOOP RD  
KIRKWOOD, CA 95646

**PROJECT INFORMATION**

**PROPERTY INFORMATION:**  
SITE NAME: KIRKWOOD  
PS LOCATION#: 300586  
CA3 PROJECT ID: 20141087651  
SITE ADDRESS:  
33503 LOOP RD, KIRKWOOD, CA 95646  
APN: 026-270-016  
COUNTY: AMADOR  
JURISDICTION: AMADOR COUNTY  
USE: WIRELESS  
TELECOMMUNICATION FACILITY  
OCCUPANCY: U (UNMANNED)/S2  
CONSTRUCTION TYPE: VB  
TOWER TYPE AND HT: 40' TOWER W/ (P) 20' EXTENSION  
GROUND ELEVATION: 7775' AMSL

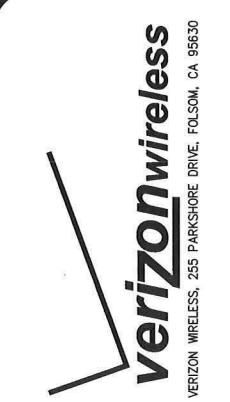
**SITE MANAGER/DESIGN TEAM:**  
EPIC WIRELESS  
8700 AUBURN FOLSOM ROAD; SUITE 400  
GRANITE BAY, CA 95746  
CONTACT: JOSH JORDAN  
TELEPHONE: (916) 704-0897  
EMAIL: JOSH.JORDAN@EPICWIRELESS.NET

**LEASING/ZONING MANAGER:**  
EPIC WIRELESS  
8700 AUBURN FOLSOM ROAD; SUITE 400  
GRANITE BAY, CA 95746  
CONTACT: KAREN LEINERT  
TELEPHONE: 916-834-0834  
EMAIL: LANDMARKCONSULTING@SBCGLOBAL.NET

**PROPERTY/TOWER OWNER:**  
VOLCANO TELEPHONE  
PO BOX 1070  
PINE GROVE, CA 95665  
CONTACT: FRANK LESCHINSKY  
TELEPHONE: 209-296-1427

**NAD 83 COORDINATES:**  
LATITUDE: N 38° 41' 23.20"  
LONGITUDE: W 120° 04' 23.52"

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**KIRKWOOD**  
CA3 MW PROJECT ID: 20141087651  
PS LOCATION #: 300586  
33503 LOOP RD, KIRKWOOD, CA 95646



**ATM Engineering**  
Tim McPartland, SE  
2525 East Bidwell Street  
Folsom, CA 95630  
Phone: 916-859-7300  
Direct: 916-934-5177  
Email: timm@atmengineering.com

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**SHEET INDEX**

- T-1 TITLE SHEET, PROJECT INFORMATION
- C-1 SURVEY
- A-1 OVERALL SITE PLAN & SITE PLAN
- A-2 (E) & (P) ANTENNA PLANS & COAX/MW EQUIPMENT SCHEDULES
- A-3 ELEVATION

**PROJECT DESCRIPTION**

MODIFICATION TO AN (E) UNMANNED TELECOMMUNICATION SITE CONSISTING OF THE FOLLOWING:

- REMOVE UNUSED ANALOGUE EQUIPMENT.
- (P) -48 POWERBAY RACK IN (E) LEASE AREA.
- REPLACE (E) NORTEL EQUIPMENT WITH MOTOROLA EQUIPMENT
- UPGRADE (E) POWER BREAKER WITHIN LAND LOADS PANEL TO 80 AMP BREAKER.
- (P) 20' LATTICE TOWER EXTENSION TO (E) TOWER
- (12) 8' PANEL ANTENNAS.
- (9) RRU12 (3) (P) RRU12 & (6) (F) RRU12/+A2.
- (4) RAYCAP SURGE SUPPRESSORS, (2 AT EQUIPMENT 2 AT ANTENNAS)
- (2) (P) HYBRID CABLE.
- (12) (P) 7/8" COAX LINES.
- (P) MW SHOOTING TO KIRKWOOD CHAIR 2 W/ODU.
- (2) (P) CAT5e CABLES.

**CODE COMPLIANCE**

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2013 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2013 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- ANSI/EIA-TIA-222-G
- ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS.

**DISABLED ACCESS REQUIREMENTS**  
THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE TITLE 24 PART 2, SECTION 11B-203.4

**ISSUE STATUS**

INT	DATE	DESCRIPTION	REV.
AEB	03/12/15	90% ZD'S	0
AKG	04/21/15	95% ZD'S	0
AKG	04/22/15	100% ZD'S	0

SHEET TITLE:  
TITLE SHEET &  
PROJECT INFORMATION

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(P) -48V BATTERY RACK, (P) POWER BREAKER & (P) MISC. RACK TO BE ADDED TO (E) 4'X6' VERIZON WIRELESS LEASE AREA; (E) NORTEL 850 TO BE REPLACED WITH MOTOROLA EQUIPMENT.  
(E) 4'X6' VERIZON WIRELESS EQUIPMENT LEASE AREA TO BE DETERMINED BY CONTRACTOR

SEE ANTENNA PLAN

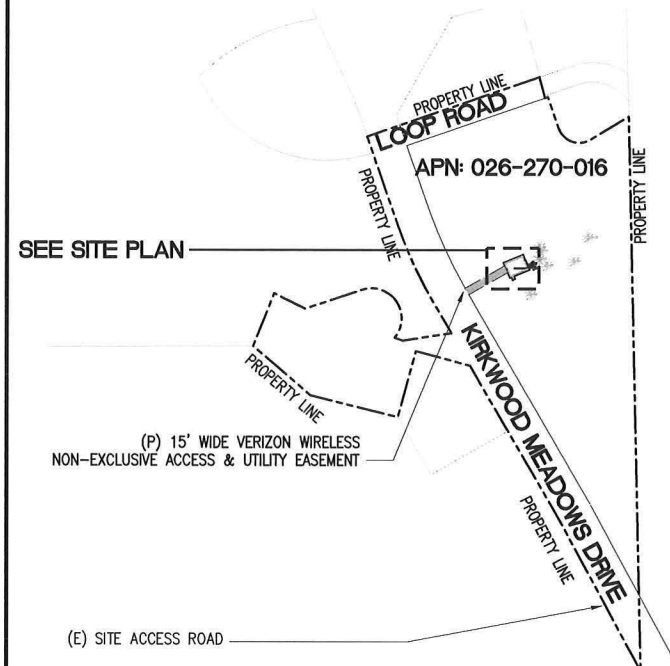
(E) BUILDING

4'-11" HORIZONTAL CLEARANCE

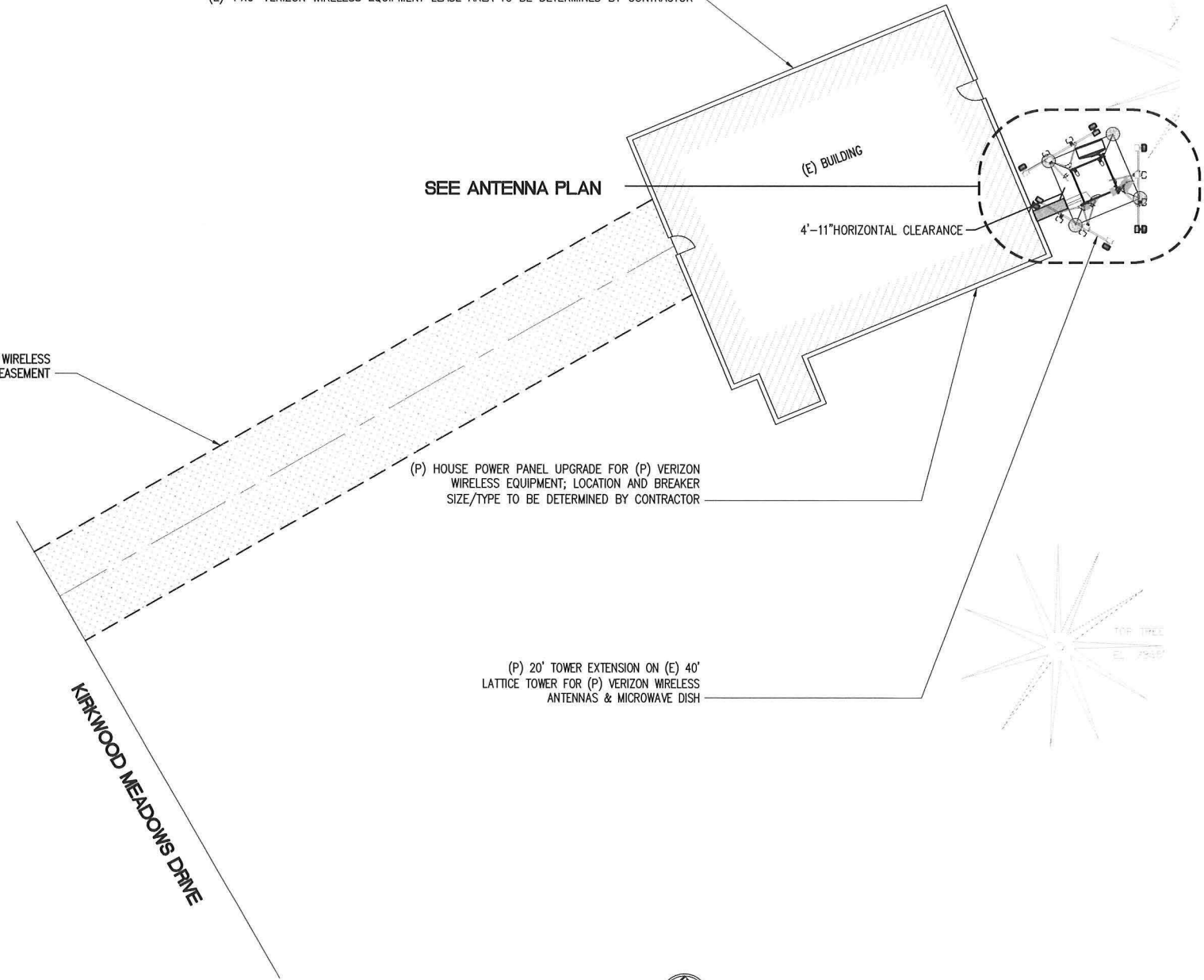
(P) 15' WIDE VERIZON WIRELESS NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

(P) HOUSE POWER PANEL UPGRADE FOR (P) VERIZON WIRELESS EQUIPMENT; LOCATION AND BREAKER SIZE/TYPE TO BE DETERMINED BY CONTRACTOR

(P) 20' TOWER EXTENSION ON (E) 40' LATTICE TOWER FOR (P) VERIZON WIRELESS ANTENNAS & MICROWAVE DISH



OVERALL SITE PLAN  
SCALE: 1"=2000'-0"  
NORTH



SITE PLAN  
SCALE: 1"=10'-0"  
NORTH



**KIRKWOOD**  
CA3 MW PROJECT ID: 20141087651  
PS LOCATION #: 300586  
33503 LOOP RD, KIRKWOOD, CA  
95646



**ATM Engineering**  
Tim McPartland, SE  
2525 East Bidwell Street  
Folsom, CA 95630  
Phone: 916-859-7300  
Direct: 916-934-5177  
Email: timm@atmengineering.com

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ISSUE STATUS

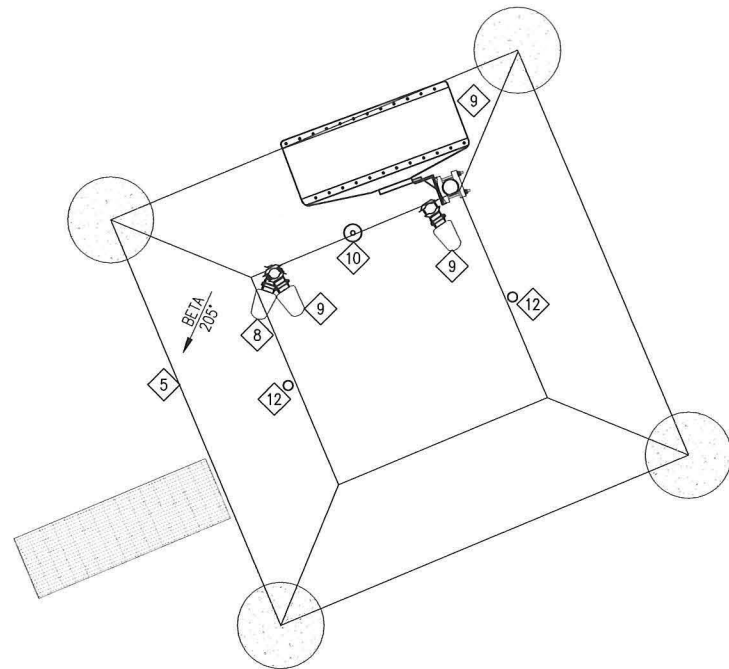
INT	DATE	DESCRIPTION	REV.
AEB	03/12/15	90% ZD'S	0
AKG	04/21/15	95% ZD'S	0
AKG	04/22/15	100% ZD'S	0

SHEET TITLE:  
OVERALL SITE PLAN  
& SITE PLAN

A-1

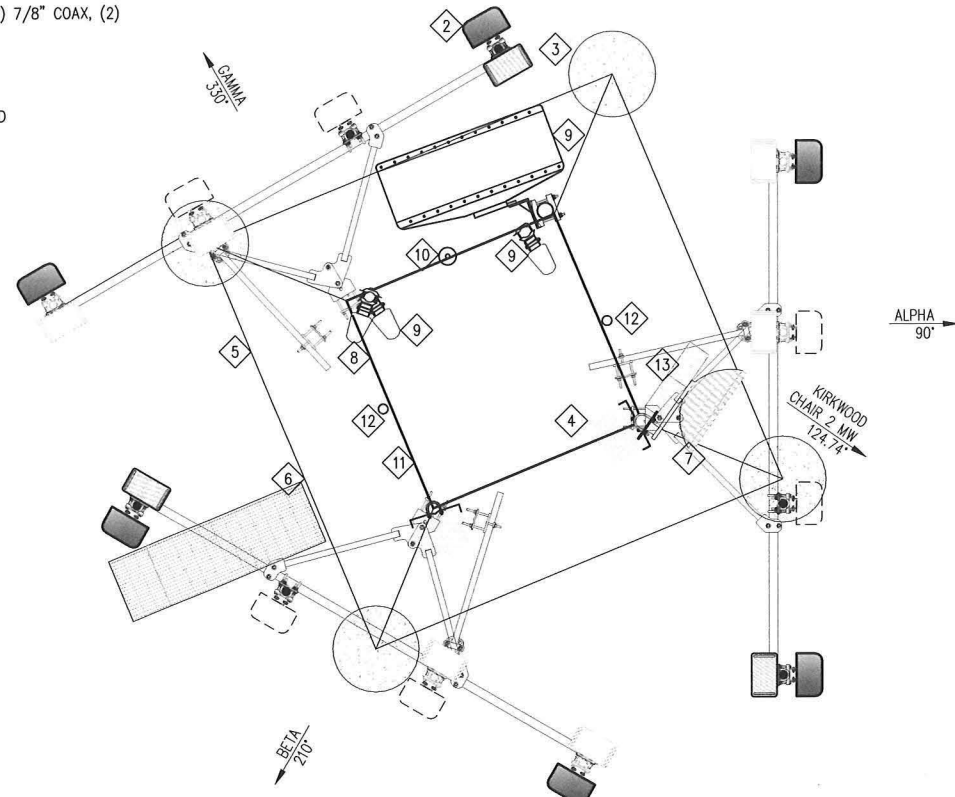
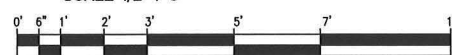
**ANTENNA PLAN KEY NOTES:**

- 1 (3) (P) V-FRAME ANTENNA MOUNT
- 2 (12) (P) VERIZON WIRELESS 8' ANTENNAS, (6) (P) & (6) (F), TYPICAL OF (4) PER SECTOR
- 3 (3) (P) RRH'S & (6) (F) RRH'S
- 4 (2) (P) TOWER MOUNTED RAYCAP SURGE SUPPRESSOR
- 5 (E) 40' TOWER W/ (P) 20' EXTENSION
- 6 (E) TOWER MOUNTED CABLE LADDER W/ (12) (P) 7/8" COAX, (2) (P) HYBRID CABLES & (2) (P) CAT5e CABLES
- 7 (P) MW AIMED TO KIRKWOOD CHAIR 2
- 8 (E) VERIZON WIRELESS ANTENNA TO BE REMOVED
- 9 (E) ANTENNA BY OTHERS
- 10 (E) GPS BY OTHERS
- 11 (P) 20' LATTICE TOWER EXTENSION
- 12 (E) OMNI ANTENNAS BY OTHERS
- 13 (2) (P) ODU'S



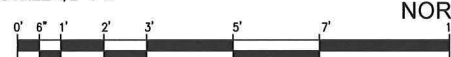
**(E) ANTENNA PLAN**

SCALE: 1/2"=1'-0"

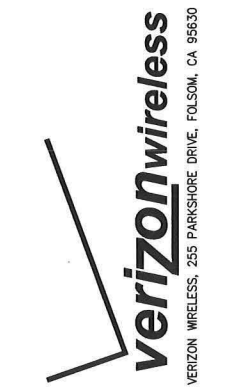


**(P) ANTENNA PLAN**

SCALE: 1/2"=1'-0"



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MAY 22 2015  
PLANNING DEPARTMENT



**KIRKWOOD**  
CA3 MW PROJECT ID: 20141087651  
PS LOCATION #: 300586  
33503 LOOP RD, KIRKWOOD, CA  
95646



**ATM Engineering**  
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**ISSUE STATUS**

INT	DATE	DESCRIPTION	REV.
AEB	03/12/15	90% ZD'S	0
AKG	04/21/15	95% ZD'S	0
AKG	04/22/15	100% ZD'S	0

SHEET TITLE:

(E) & (P) ANTENNA PLANS & COAX/MW EQUIPMENT SCHEDULES

**A-2**

SECTOR NAME	POS	SECTOR AZIMUTH*	QTY	ANTENNA TYPE	ANTENNA MFR	UNITS-INCHES			RAD CENTER (AGL)	TMA/ DIPLEXER/ RRU (QTY/TYP)	APPROX CABLE LENGTH	COAX CABLE (QTY/SIZE)	COMMENTS
						"L"	"W"	"D"					
ALPHA	1	90°	1	850	ANDREW	96.0	11.9	7.1	44.1	56'	-	V.I.F. (2)7/8"	INSTALL (2) (N) HYBRID TRUNKS W/ (1) FOR (F) & (12) 7/8" COAX LINES.
	2		1	LTE	ANDREW	96.0	11.9	7.1	44.1	56'	1/RRH	V.I.F. (2)7/8"	
	3		1	AWS/PCS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	
	4		1	LTE/PCS/AWS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	
BETA	1	210°	1	850	ANDREW	96.0	11.9	7.1	44.1	56'	-	V.I.F. (2)7/8"	
	2		1	LTE	ANDREW	96.0	11.9	7.1	44.1	56'	1/RRH	V.I.F. (2)7/8"	
	3		1	AWS/PCS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	
	4		1	LTE/PCS/AWS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	
GAMMA	1	330°	1	850	ANDREW	96.0	11.9	7.1	44.1	56'	-	V.I.F. (2)7/8"	
	2		1	LTE	ANDREW	96.0	11.9	7.1	44.1	56'	1/RRH	V.I.F. (2)7/8"	
	3		1	AWS/PCS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	
	4		1	LTE/PCS/AWS	(F) ANDREW	96.0	11.9	7.1	44.1	56'	(F) 1/RRH	V.I.F.	

NOTE: 1. CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATING, OR INSTALLING CABLES. \* SUBJECT TO FINAL VERIFICATION BY RF ENGINEER

S.O.W. (N) EQUIPMENT												
SECTOR/ LOCATION	POS	EQUIP QTY	APPLIED TECH	EQUIPMENT MFR	UNITS-INCHES			UNITS-LBS WEIGHT	COMMENTS			
					"L"	"W"	"D"					
ALPHA/BETA/GAMMA	< 12' OF ANT	3	LTE	ERICSSON: RRH'S	27.2"	12.0"	7.0"	50.7	INSTALL ALL EQUIPMENT PER MFR SPECIFICATION TO ACHIEVE ALL RECOMMENDED CLEARANCES			
ALPHA/BETA/GAMMA	< 12' OF ANT	6 (F)	AWS/PCS	ERICSSON: RRH'S	27.2"	12.0"	7.0"	50.7				
TOWER	< 15' OF RRUS12	2	N/A	RAYCAP: 3315 SURGE SUPPRESSOR	19.18	15.73	10.25	26.9				
AT EQUIPMENT	FIELD VERIFY	2	N/A	RAYCAP: 3315 SURGE SUPPRESSOR	19.18	15.73	10.25	26.9				

**(P) ANTENNA / COAX CABLE/ EQUIPMENT SCHEDULE**

NO SCALE

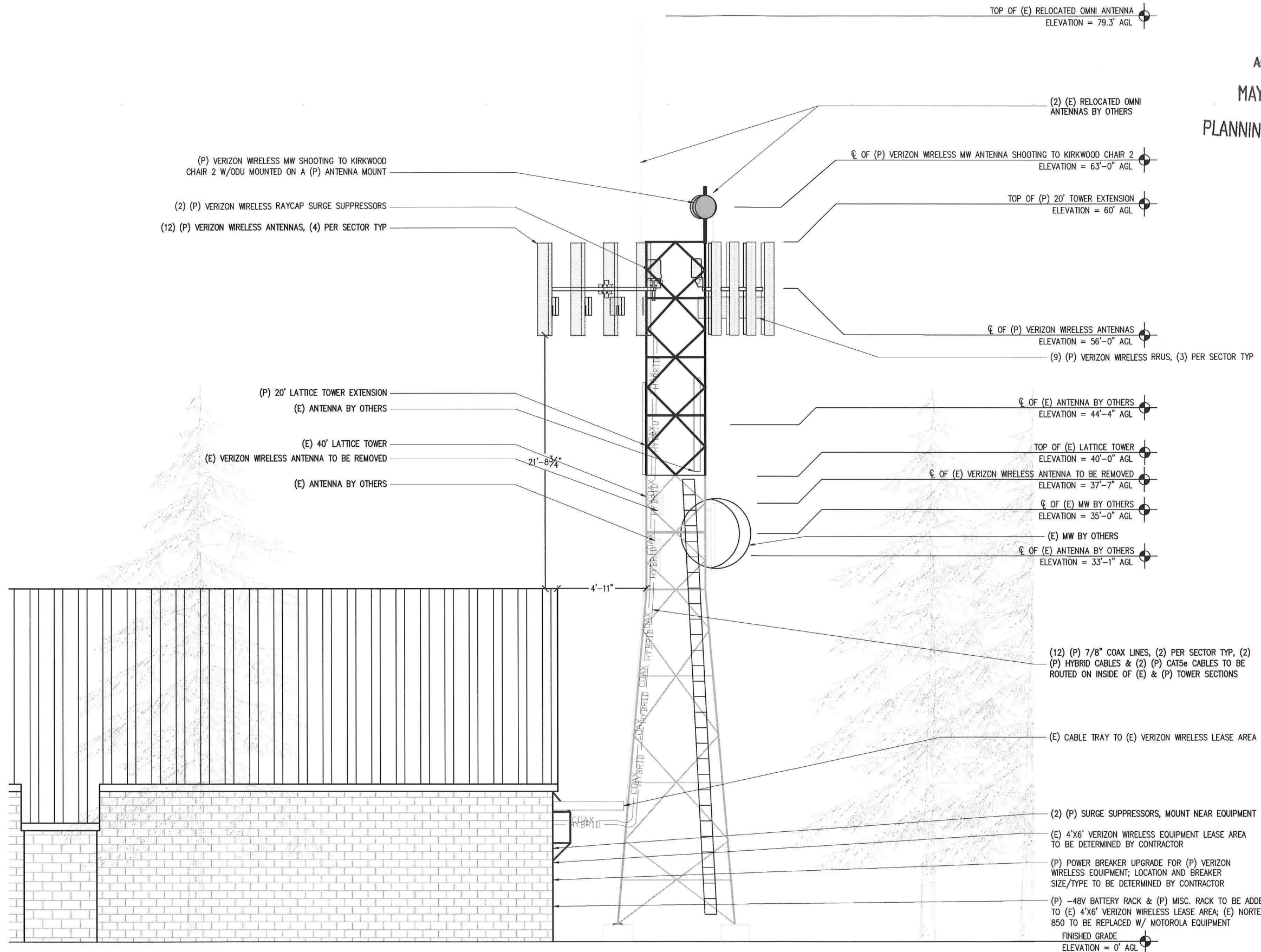
**MW SHOOTING TO KIRKWOOD CHAIR 2**

S.O.W. NEW EQUIPMENT TO BE ADDED													
EQUIP TYPE	DIRECTION/ LOCATION	AZ*	EQUIP MFRG./ MODEL NO.	EQUIP QTY	RAD CENTER (AGL)**	LINE LENGTH (± 5')	LINE TYPE	LINE QTY	LINE SIZE	DISH DIMENSION			M/W WT
										H	W	D	
MICROWAVE	SOUTH EAST TOWER LEG, POINTING SE	124.74°	SB1-190	1	61'-0"	75'-NEW	CAT5e	2	ø.26"	15"	15"	6.7"	8.8 LBS
ODU	AT PIPE MOUNT	N/A	N/A	2	61'-0"	N/A	N/A	N/A	N/A	11"	11"	6.5"	28.6 LBS

\* SUBJECT TO FINAL VERIFICATION BY RF ENGINEER  
\*\* THE OPTIMAL RAD CENTERS ARE OCCUPIED BY OTHER ANTENNAS, HENCE THE SECONDARY RAD CENTERS. SHOULD A NEW STRUCTURE BE PLANNED AT EITHER (OR BOTH) LOCATIONS, THE PRIMARY ANTENNA RAD CENTERS SHOULD BE USED.

**(P) MICROWAVE EQUIPMENT SPECIFICATIONS SCHEDULE**

NO SCALE



**SOUTHEAST ELEVATION**  
SCALE: 1/4" = 1'-0"

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SHEET TITLE:  
ELEVATION

**A-3**