

Staff Report to the Zoning Administrator

Application Number: 151040

Applicant: Gary Gochberg, Nexius/Beacon

Development LLC (for Verizon)
Owner: County of Santa Cruz

APN: N/A (in County Right-of-Way on Rio

Del Mar Blvd. near Hwy. 1 interchange, Aptos)

Agenda Date: June 19, 2015 (continued from April 17, 2015 and May 15, 2015)

Agenda Item #: 1

Time: After 9:00 a.m.

Project Description: Proposal to install a Verizon microcell WCF on an existing 29.3-ft. tall utility pole on Rio Del Mar Blvd. adjacent to (south of) the Watsonville direction onramp of the Rio Del Mar Hwy. 1 interchange in Aptos, adjacent to the dividing property line between APNs 044-023-07 and 044-023-03. Project consists of one 2 foot tall by 4.6-inch diameter canister antenna, mounted atop a 7 foot high pole extension at the top of the existing pole, and other related pole-mounted equipment.

Location: Project is located in County right-of-way on Rio Del Mar Blvd. adjacent to (south of) the Watsonville direction onramp of the Rio Del Mar Hwy. 1 interchange, adjacent to the dividing property line between APNs 044-023-07 and 044-023-03 (311 Bonito Dr. and 762 Rio Del Mar Blvd.) and across Rio Del Mar Blvd. from the Rio Del Mar Arco station.

Supervisorial District: 2nd District (District Supervisor: Zach Friend)

Permits Required: Requires a Level 5 Commercial Development Permit and a Coastal Development Permit.

Technical Reviews: N/A

Staff Recommendation:

- Determine that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- Approval of Application 151040, based on the attached findings and conditions.

Exhibits

D.	Revised Project plans	Н.	Alternative Site Analysis
C.	Conditions	G.	Photo Simulations
B.	Findings	F.	RF Radiation Emissions Report
	determination)		General Plan Maps
A.	Categorical Exemption (CEQA	Е.	Assessor's, Location, Zoning and

County of Santa Cruz Planning Department 701 Ocean Street, 4th Floor, Santa Cruz CA 95060 APN: No APN Spec. (in Co. Right-of-Way near 762 Rio Del Mar Blvd. in Aptos)

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Parcel Information

Parcel Size: N/A (in County right-of-way) N/A (in County right-of-way) Existing Land Use - Parcel:

Office Commercial and Service Commercial Existing Land Use - Surrounding:

Rio Del Mar Blvd. Project Access: Aptos Planning Area Planning Area: C-O (Office Commercial) Land Use Designation:

Zone District: PA-SP (Professional Administrative Office – Salamander

Protection District)

___ Outside Coastal Zone: X Inside X No Appealable to Calif. Coastal Comm. Yes

Environmental Information

Not mapped/no physical evidence on site Geologic Hazards:

Soils: N/A

Fire Hazard: Not a mapped constraint N/A Slopes:

Within Salamander Protection Zone Env. Sen. Habitat:

No grading proposed Grading: Tree Removal: No trees proposed to be removed

Mapped as a General Plan Designated Scenic Area Scenic:

Existing drainage adequate Drainage:

Not mapped/no physical evidence on site Archeology:

Services Information

X Inside Outside Urban/Rural Services Line:

N/A Water Supply: Sewage Disposal: N/A

Aptos-La Selva Beach Fire Protection District Fire District:

Drainage District: Zone 6

History

No applications have been previously filed for this portion of County right-of-way.

Project Setting

The proposed subject utility pole is located in County right-of-way along the south side of Rio Del Mar Blvd., immediately southwest of the Watsonville-direction on-ramp of Hwy. 1 from Rio Del Mar Blvd. in Aptos. The utility pole is adjacent to (immediately north of) the dividing property line between 311 Bonita Dr. and 762 Rio Del Mar Blvd. (APNs 044-023-07 and 044-023-03, respectively), which are both PA-SP (Professional-Administrative Office - Salamander

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Protection District) zoned parcels (14,245 sq. ft. and 12,750 sq. ft. in size, respectively) containing office buildings. The office buildings will be approximately 70-feet and 24-feet, respectively, away from the proposed microcell WCF. The nearest residence to the subject pole is at 310 Bonita Dr., approximately 184-feet away, on a parcel zoned R-1-10-SP (Single Family Residential – Salamander Protection District).

Zoning & General Plan Consistency

The subject utility pole is located on a portion of County right-of-way located in the PA-SP (Professional-Administrative Office – Salamander Protection District) zone district, a designation which allows microcell WCF uses. The proposed microcell WCF is a conditionally permitted use within the zone district and the zoning is consistent with the site's (C-O) Office Commercial General Plan designation.

Design Review

The proposed microcell WCF complies with the requirements of the County Design Review Ordinance, in that the proposed project will be part of an existing utility pole, increasing its bulk slightly, but still being relatively visually inconspicuous, and thus will have minimal visual impact on surrounding land uses and the natural landscape.

Radio Frequency Emissions

The County is prohibited by federal law from denying WCF applications, such as this one, on the basis of the health and/or environmental effects of radio frequency (RF) radiation so long as the WCF complies with the FCC's RF radiation emission limits. A RF radiation emissions calculation report has been prepared for this project by a qualified consulting engineer. The proposed facility is calculated to result in a maximum ambient RF level of no more than 8.6% of the applicable FCC public exposure limit at the nearest publically accessible ground-level area, and 7.4% of that limit at the nearest habitable structure.

New Information and Project Revisions

In response to concerns from neighbors raised at the April 17, 2015 and May 15, 2015 public hearings before the Zoning Administrator, the applicant has submitted a revised antenna design (see Exhibit D) that removes the antenna sectors that were to face the adjacent habitable structures (to the east), so that the transmission beam is directed only toward the Deer Park Center to the west (which is the main coverage objective). Also in response to concerns raised at the previous hearings, the applicant has submitted an Alternative Site Analysis (Exhibit H), which shows that other possible WCF locations and utility poles in the vicinity are either infeasible (due to PG&E pole incompatibility) or would be far more visually obtrusive (unreasonably tall) if they were to meet the coverage objective.

Environmental Review

Staff has determined that the proposed project is Categorically Exempt from the requirements of the California Environmental Quality Act (CEQA) because it qualifies as "New Construction or

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Conversion of a Small Structure" (Class 3, Section 15303). The CEQA Categorical Exemption form is attached as Exhibit A.

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Conclusion

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

Staff Recommendation

- Determine that the proposal is exempt from further Environmental Review under the California Environmental Quality Act.
- APPROVAL of Application Number151040, based on the attached findings and conditions.

Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: www.co.santa-cruz.ca.us

Report Prepared By: Frank Barron, AICP

Santa Cruz County Planning Department

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E-mail: frank.barron@co.santa-cruz.ca.us

CALIFORNIA ENVIRONMENTAL QUALITY ACT NOTICE OF EXEMPTION

The Santa Cruz County Planning Department has reviewed the project described below and has determined that it is exempt from the provisions of CEQA as specified in Sections 15061 - 15332 of CEQA for the reason(s) which have been specified in this document.

Application Number: 151040

Assessor Parcel Number: N/A (in County right-of-way) Project Location: On south side of Rio Del Mar Blvd. near 762 Rio Del Mar Blvd. in Aptos
Project Description: Proposal to construct a Verizon microcell WCF on an existing utility pole, including a small cylindrical antenna enclosure mounted on top of the pole and other pole mounted equipment.
Person or Agency Proposing Project: Gary Gochberg, Nexius/Beacon Development LLC (for Verizon)
Contact Phone Number: (707) 364-5164
A The proposed activity is not a project under CEQA Guidelines Section 15378. The proposed activity is not subject to CEQA as specified under CEQA Guidelines Section 15060 (c).
C. <u>Ministerial Project</u> involving only the use of fixed standards or objective measurements without personal judgment.
D. Statutory Exemption other than a Ministerial Project (CEQA Guidelines Section 15260 to 15285).
E. X Categorical Exemption
Specify type: Type 3 - New Construction or Conversion of Small Structure (Section 15303)
F. Reasons why the project is exempt:
Construction of a microcell wireless communication facility on an existing utility pole is not anticipated to generate any environmental impacts.
In addition, none of the conditions described in Section 15300.2 apply to this project.
Date:
Frank Barron, Project Planner

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Coastal Development Permit Findings

1. That the project is a use allowed in one of the basic zone districts, other than the Special Use (SU) district, listed in section 13.10.170(D) as consistent with the General Plan and Local Coastal Program (LCP) LUP designation.

This finding can be made, in that the County right-of-way (ROW) site is zoned PA-SP (Professional-Administrative Office – Salamander Protection), a designation which allows microcell wireless communication facility (WCF) uses. The proposed microcell WCF is a principal permitted use within the zone district, and the zoning is consistent with the site's C-O (Office Commercial) General Plan/LCP designation.

2. That the project does not conflict with any existing easement or development restrictions such as public access, utility, or open space easements.

This finding can be made, in that no such easements or restrictions are known to encumber the project site.

3. That the project is consistent with the design criteria and special use standards and conditions of this chapter pursuant to section 13.20.130 et seq.

This finding can be made, in that the development is consistent with the surrounding neighborhood in terms of visual impact; the site is surrounded by lots developed to an urban density and transportation infrastructure (e.g., Hwy. 1); the colors will be natural in appearance and complementary to the site; and the development site is not on a prominent ridge, beach, or bluff top.

4. That the project conforms with the public access, recreation, and visitor-serving policies, standards and maps of the General Plan and Local Coastal Program land use plan, specifically Chapter 2: figure 2.5 and Chapter 7, and, as to any development between and nearest public road and the sea or the shoreline of any body of water located within the coastal zone, such development is in conformity with the public access and public recreation policies of Chapter 3 of the Coastal Act commencing with section 30200.

This finding can be made, in that the project site is not located between the shoreline and the first public road. Consequently, the microcell WCF will not interfere with public access to the beach, ocean, or any nearby body of water. Further, the project site is not identified as a priority acquisition site in the County Local Coastal Program.

5. That the proposed development is in conformity with the certified local coastal program.

This finding can be made, in that the structure is sited and designed to be visually compatible, in scale, and integrated with the character of the surrounding neighborhood. Additionally, microcell WCF uses are allowed uses in the PA-SP (Professional-Administrative – Salamander Protection) zone district. Developed parcels in the area contain commercial office buildings and other commercial structures, and the design submitted is not inconsistent with them.

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Development Permit Findings

1. That the proposed location of the project and the conditions under which it would be operated or maintained will not be detrimental to the health, safety, or welfare of persons residing or working in the neighborhood or the general public, and will not result in inefficient or wasteful use of energy, and will not be materially injurious to properties or improvements in the vicinity.

This finding can be made in that the project is located in a zone district that allows microcell wireless communication facility (WCF) uses and is not encumbered by physical constraints to development. Construction will comply with prevailing building technology, the California Building Code, and the County Building ordinance to insure the optimum in safety and the conservation of energy and resources. The proposed microcell WCF will not deprive adjacent properties or the neighborhood of light, air, or open space, in that the structure meets all currently required site standards that ensure access to these amenities.

2. That the proposed location of the project and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the zone district in which the site is located.

This finding can be made in that the proposed location of the microcell WCF and the conditions under which it would be operated/maintained will be consistent with all pertinent County ordinances, and not inconsistent with the purpose of the PA-SP (Professional Administrative Office – Salamander Protection) zone district, as one of the allowed uses of County right-of-way under this zoning designation are microcell WCFs.

3. That the proposed use is consistent with all elements of the County General Plan and with any specific plan which has been adopted for the area.

This finding can be made in that the proposed WCF use is not inconsistent with the use requirements specified for the (C-O) Office Commercial land use designation in the County General Plan. The proposed microcell WCF will not adversely impact the light, solar opportunities, air, and/or open space available to other structures or properties, and meets all current site and development standards for the zone district, in that the microcell WCF will not adversely shade adjacent properties, and will meet current height limits for WCFs in the zone district.

A specific plan has not been adopted for this portion of the County.

4. That the proposed use will not overload utilities and will not generate more than the acceptable level of traffic on the streets in the vicinity.

This finding can be made in that the proposed microcell WCF is to be constructed on an existing utility pole in County right-of-way. There will be no additional traffic generated by the proposed project, and it will not adversely impact existing roads or intersections in the surrounding area.

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5. That the proposed project will complement and harmonize with the existing and proposed land uses in the vicinity and will be compatible with the physical design aspects, land use intensities, and dwelling unit densities of the neighborhood.

This finding can be made in that the proposed microcell structure is located in a commercial neighborhood containing a variety of structures of various architectural styles, and the proposed microcell WCF mounted upon an existing utility pole is not inconsistent with the land use style and intensity of the neighborhood.

6. The proposed development project is consistent with the Design Standards and Guidelines (sections 13.11.070 through 13.11.076), and any other applicable requirements of this chapter.

This finding can be made in that the proposed microcell WCF will be of an appropriate scale and type of design that will not detract from the aesthetic qualities of the surrounding properties and will not reduce or visually impact available open space in the surrounding area.

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Wireless Communication Facility Use Permit Findings

1. The development of the proposed wireless communications facility as conditioned will not significantly affect any designated visual resources, environmentally sensitive habitat resources (as defined in the Santa Cruz County General Plan/LCP Sections 5.1, 5.10, and 8.6.6), and/or other significant County resources, including agricultural, open space, and community character resources; or there are no other environmentally equivalent and/or superior and technically feasible alternatives to the proposed wireless communications facility as conditioned (including alternative locations and/or designs) with less visual and/or other resource impacts and the proposed facility has been modified by condition and/or project design to minimize and mitigate its visual and other resource impacts.

This finding can be made in that the proposed WCF is of the microcell type which, due to its small size and co-location onto an existing utility pole, is one of the least visually obtrusive types of WCF. Moreover, its installation and use in a road right-of-way will not involve any grading or excavation and will not impact any sensitive habitat resources or other significant County resources, including agricultural, open space, and community character resources. Finally, there are no other environmentally equivalent and/or superior and technically feasible alternatives to the proposed microcell designs that have less visual and/or other resource impacts.

2. The site is adequate for the development of the proposed wireless communications facility and, for sites located in one of the prohibited and/or restricted areas set forth in Sections 13.10.661(B) and 13.10.661 (C), that the applicant has demonstrated that there are not environmentally equivalent or superior and technically feasible: (1) alternative sites outside the prohibited and restricted areas; and/or (2) alternative designs for the proposed facility as conditioned.

This finding can be made in that the proposed microcell WCF is to consist of antennas mounted upon an existing utility pole in the County right-of-way, an area where numerous utility poles are already located. Microcell WCF installations co-located on existing utility poles, such as these, are encouraged in the WCF Ordinance as the preferred WCF design, due to their relatively inconspicuous nature.

3. The subject property upon which the wireless communications facility is to be built is in compliance with all rules and regulations pertaining to zoning uses, subdivisions and any other applicable provisions of this title (County Code 13.10.660) and that all zoning violation abatement costs, if any, have been paid.

This finding can be made in that the existing infrastructure uses of the subject right-of-way are in compliance with the requirements of the zone districts and General Plan designations, in which they are located, and that there are no outstanding or unpaid zoning violation abatement costs.

4. The proposed wireless communication facility as conditioned will not create a hazard for aircraft in flight.

This finding can be made, in that the proposed microcell WCF will be located on an existing

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approximately 29.3-foot tall existing utility pole, with a total proposed height of 38.3-feet with the pole height extender and antenna, the top of which is at a height too low to interfere with the observed height of aircraft from nearby airports.

5. The proposed wireless communication facility as conditioned is in compliance with all FCC and California PUC standards and requirements.

This finding can be made in that the maximum ambient RF levels at ground level due to the existing wireless communications facilities and the proposed operation are calculated to be 8.6% percent of the most restrictive applicable (FCC) limit.

6. For wireless communication facilities in the coastal zone, the proposed wireless communication facility as conditioned is consistent with the all applicable requirements of the Local Coastal Program.

This finding can be made in that the proposed microcell WCF is designed and located in a manner that will minimize potential impacts to scenic and biotic resources (e.g., there will be no grading/excavation or ground disturbance), and that the construction of the proposed facility will not impede access to the beach or other recreational resources.

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Conditions of Approval

Exhibit D: Project Plans, 12 sheets, prepared by Precision Design and Drafting, Inc., dated 2/23/15

- I. This permit authorizes the construction of a microcell wireless communications facility (WCF) on an existing utility pole. This approval does not confer legal status on any existing structure(s) or existing use(s) on the subject property that are not specifically authorized by this permit. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
 - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
 - B. Obtain a Building Permit from the Santa Cruz County Building Official.
 - 1. Any outstanding balance due to the Planning Department must be paid prior to making a Building Permit application. Applications for Building Permits will not be accepted or processed while there is an outstanding balance due.
 - C. Obtain an Encroachment Permit from the Department of Public Works for all work performed in the County road right-of-way.
 - D. Submit proof that these conditions have been recorded in the official records of the County of Santa Cruz (Office of the County Recorder) within 30 days from the effective date of this permit.
- II. Prior to issuance of a Building Permit the applicant/owner shall:
 - A. Submit final architectural plans for review and approval by the Planning Department. The final plans shall be in substantial compliance with the plans marked Exhibit "D" on file with the Planning Department. Any changes from the approved Exhibit "D" for this development permit on the plans submitted for the Building Permit must be clearly called out and labeled by standard architectural methods to indicate such changes. Any changes that are not properly called out and labeled will not be authorized by any Building Permit that is issued for the proposed development. The final plans shall include the following additional information:
 - 1. One elevation shall indicate materials and colors as they were approved by this Discretionary Application. If specific materials and colors have not been approved with this Discretionary Application, in addition to showing the materials and colors on the elevation, the applicant shall supply a color and material board in 8 1/2" x 11" format for Planning Department review and approval.

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- 2. Details showing compliance with fire department requirements. If the proposed structure(s) are located within the State Responsibility Area (SRA) the requirements of the Wildland-Urban Interface code (WUI), California Building Code Chapter 7A, shall apply.
- B. Submit four copies of the approved Discretionary Permit with the Conditions of Approval attached. The Conditions of Approval shall be recorded prior to submittal, if applicable.
- C. Meet all requirements and pay any applicable plan check fee of the Central Fire Protection District.
- III. All construction shall be performed according to the approved plans for the Building Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:
 - A. All site improvements shown on the final approved Building Permit plans shall be installed.
 - B. All inspections required by the building permit shall be completed to the satisfaction of the County Building Official.
 - C. The project must comply with all recommendations of the approved soils reports.
 - D. Pursuant to Sections 16.40.040 and 16.42.080 of the County Code, if at any time during site preparation, excavation, or other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.080, shall be observed.
- IV. Post-Construction Radio-Frequency (RF) Radiation Measurement and Reporting

Monitoring of RF radiation to verify compliance with the FCC's RF emission standards is required for all new wireless communication facilities and for all wireless communication facilities proposing to undergo a major modification of power output (as defined in SCCC 13.10.660(D)). This requirement shall be met through submission of a report documenting RF measurements at the facility site within 90-days after the commencement of normal operations, and/or within 90-days after any major modification to power output of the facility. The RF measurements shall be made, at the applicant's expense, by a qualified third-party telecommunications or RF engineer, during typical peak-use periods, utilizing the

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Monitoring Protocol described in SCCC 13.10.660(D). The report shall list and describe each transmitter/antenna present at the facility, indicating the effective radiated power of each (for co-located facilities this would include the antennas of all other carriers at the site). The report shall include field measurements of RF emissions generated by the facility and also other emission sources, from various directions and particularly from adjacent areas with residential dwellings and any other areas accessible to the public where the highest RF levels would be experienced. The report shall compare the measured results to the FCC RF occupational and public exposure standards for such facilities. The report documenting the measurements and the findings with respect to compliance with the established FCC RF exposure standards, shall be submitted to the Planning Director (or project planner) within 90-days of commencement of facility operation. Failure to comply with this requirement may result in the initiation of permit revocation proceedings by the County.

V. Operational Conditions

- A. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.
- VI. As a condition of this development approval, the holder of this development approval ("Development Approval Holder"), is required to defend, indemnify, and hold harmless the COUNTY, its officers, employees, and agents, from and against any claim (including attorneys' fees), against the COUNTY, it officers, employees, and agents to attack, set aside, void, or annul this development approval of the COUNTY or any subsequent amendment of this development approval which is requested by the Development Approval Holder.
 - A. COUNTY shall promptly notify the Development Approval Holder of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. COUNTY shall cooperate fully in such defense. If COUNTY fails to notify the Development Approval Holder within sixty (60) days of any such claim, action, or proceeding, or fails to cooperate fully in the defense thereof, the Development Approval Holder shall not thereafter be responsible to defend, indemnify, or hold harmless the COUNTY if such failure to notify or cooperate was significantly prejudicial to the Development Approval Holder.
 - B. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
 - 1. COUNTY bears its own attorney's fees and costs; and
 - 2. COUNTY defends the action in good faith.

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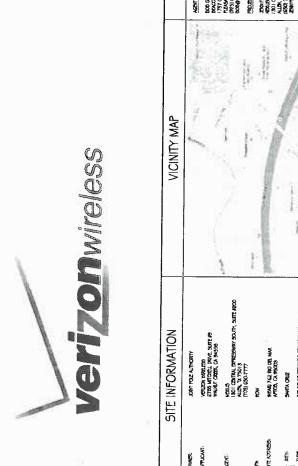
- C. <u>Settlement</u>. The Development Approval Holder shall not be required to pay or perform any settlement unless such Development Approval Holder has approved the settlement. When representing the County, the Development Approval Holder shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the County.
- D. <u>Successors Bound</u>. "Development Approval Holder" shall include the applicant and the successor'(s) in interest, transferee(s), and assign(s) of the applicant.

Minor variations to this permit which do not affect the overall concept or density may be approved by the Planning Director at the request of the applicant or staff in accordance with Chapter 18.10 of the County Code.

Please note: This permit expires three years from the effective date listed below unless a building permit (or permits) is obtained for the primary structure described in the development permit (does not include demolition, temporary power pole or other site preparation permits, or accessory structures unless these are the primary subject of the development permit). Failure to exercise the building permit and to complete all of the construction under the building permit, resulting in the expiration of the building permit, will void the development permit, unless there are special circumstances as determined by the Planning Director.

Approval Date:	
Effective Date:	
Expiration Date:	
Wanda Williams Deputy Zoning Administrator	Frank Barron, AICP Project Planner

Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Zoning Administrator, may appeal the act or determination to the Planning Commission in accordance with chapter 18.10 of the Santa Cruz County Code.



PRECISION DESIGN





RIO DEL MAR SCI

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LI ANDICAP REQUIREMENTS

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HEAD INTERPRETS ON MITTERED DR. TOWARD CAR, CARDVE, RD. TURN RESETT CAPTO CAR, GROVE, RD. TARE THE 2810 RIGHT CARTO YEARCHO VALLEY ID.

2766 MITCHELL DR, WALRUT CREES, CA. 94596 REMAY 762 NO DEL MAR BLYD, APTOS, CA. 95008

1. 2013 CALFORNIA ADMINISTRATIVE CODE (NOL. TITLES 24 (25)

3. 2013 CAUTORRA ELECTRICAL CODE 4, 2013 CALIFORNA MECHANICAL COOL 2. 2013 CALIFORNA BUILDING CODE

2013 CALIFORNIA PLUNDAG CODE BOIS CALIFORNIA FIRE CODE 8. CITHODUNTY CHONWICES LOCAL BULLPING COOPES SOMBWIN-TA-222-6

SHEET TITLE

CONTRACTS SHALL YOR'N ALL RAKS + ID, DIAGNOS + CONTRODS ON THE JOBS STH + SHALL INABRATA'N WITH THE DEGREEN IN HISTING ON ANY DIAGNOST STOCKE PROZEDING WITH THE MOSK ON EX LESPONERLE FOX SHALL IT (SPLICE). IT IN 17 TIGTS ADMINISTRATIVE REQUIREMENTS

NEXINS

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155UE STATUS

△ DAIT REACTION

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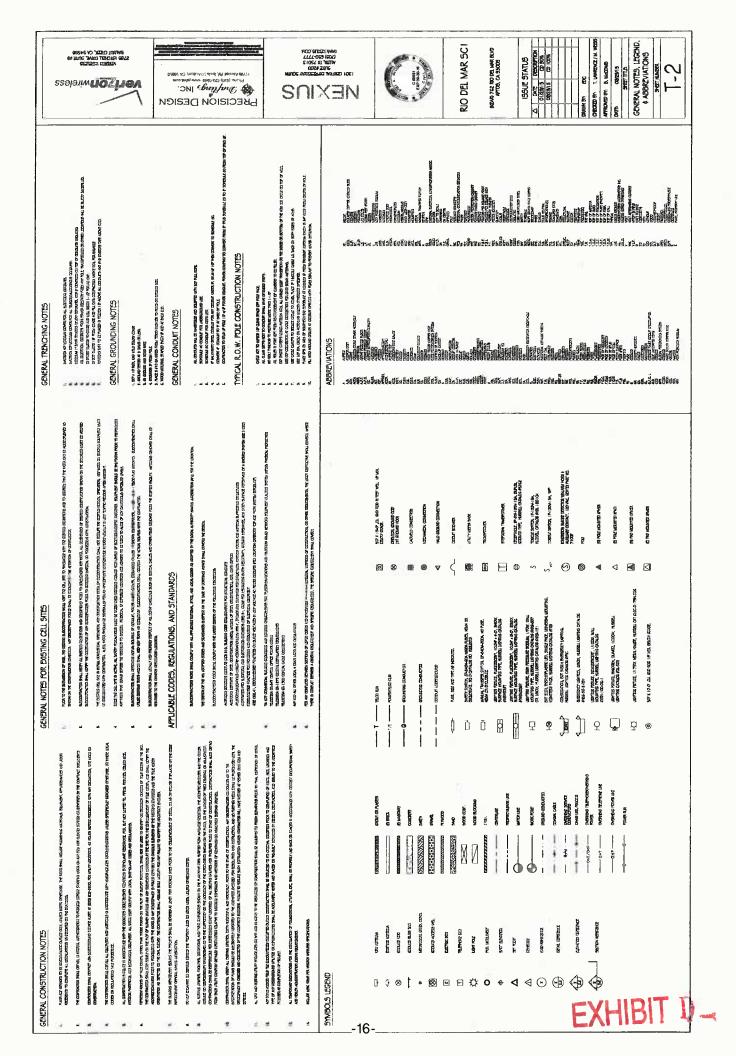
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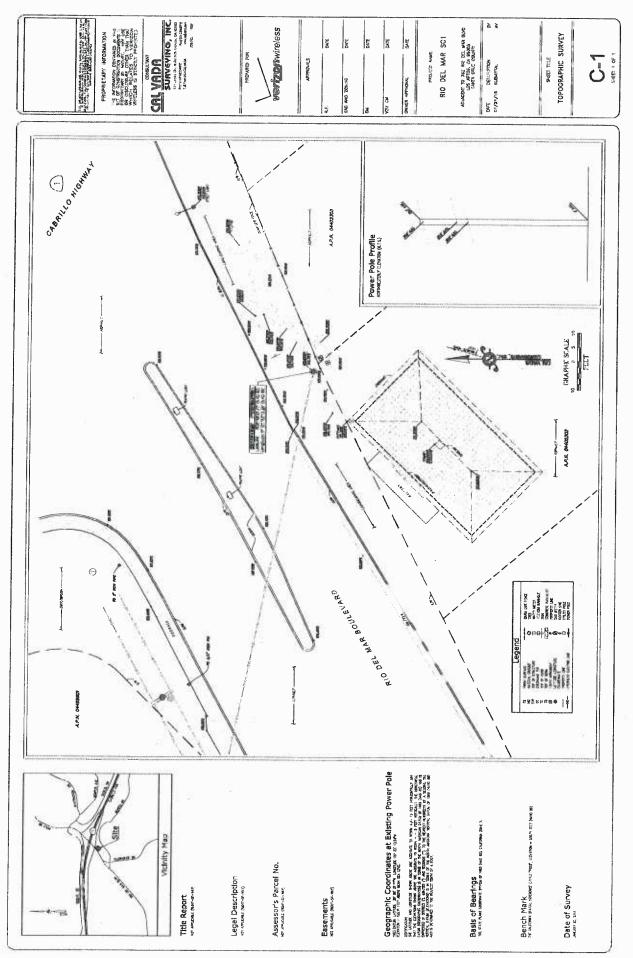
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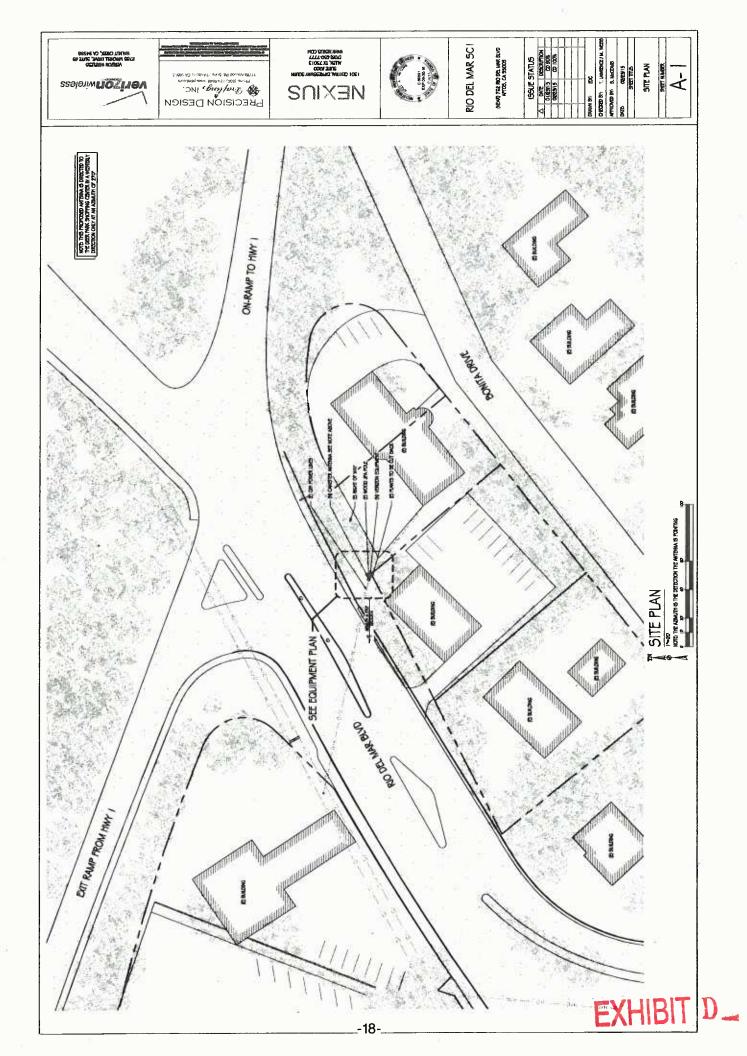
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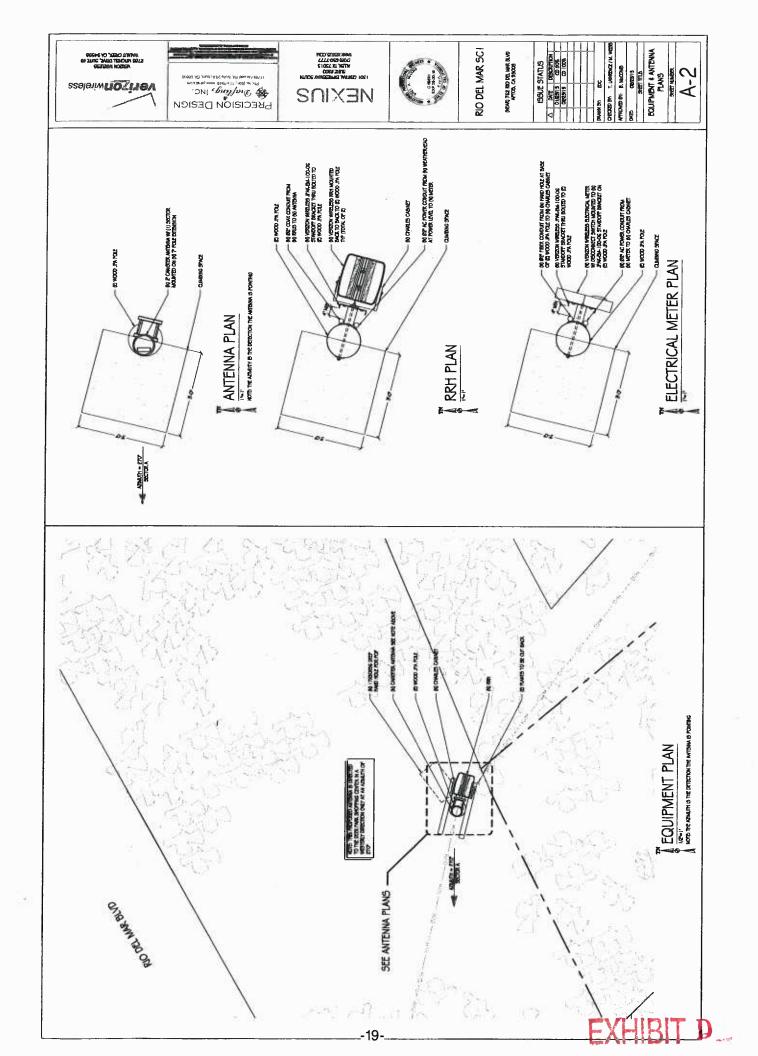
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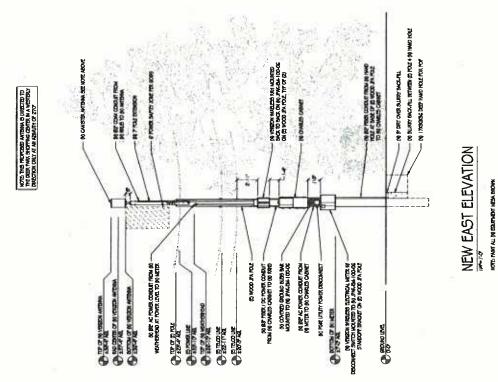


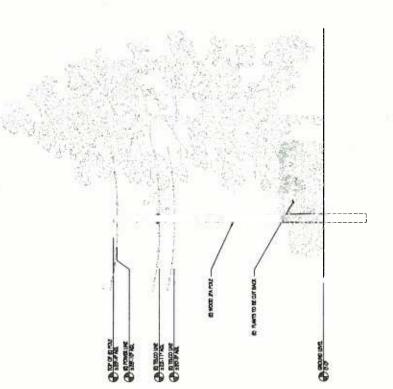






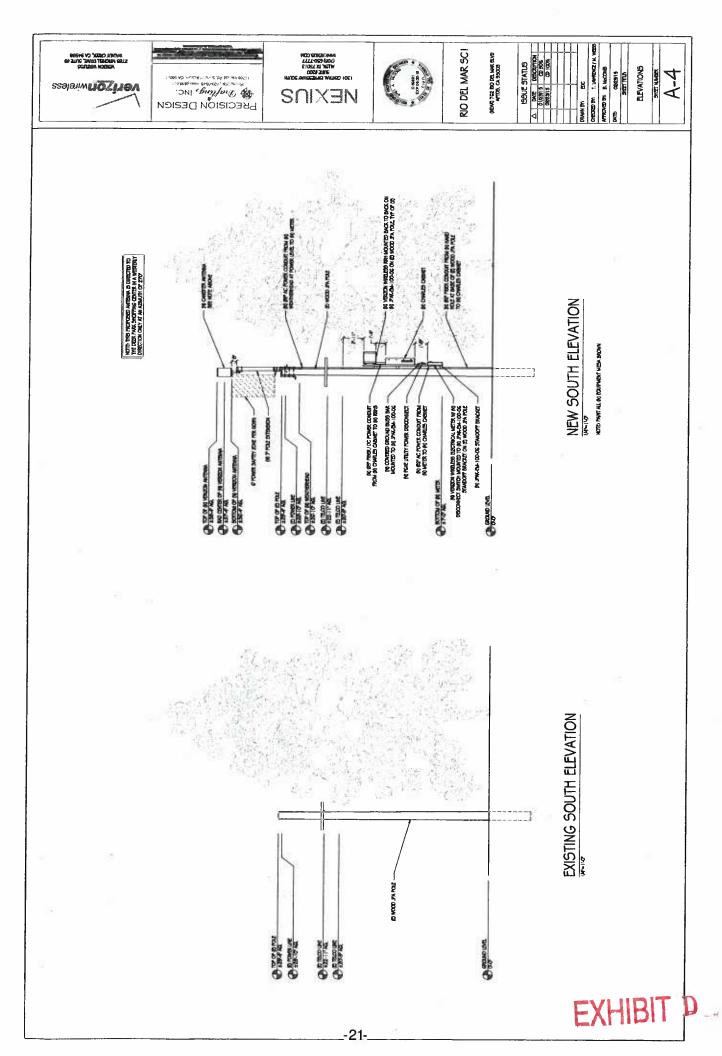


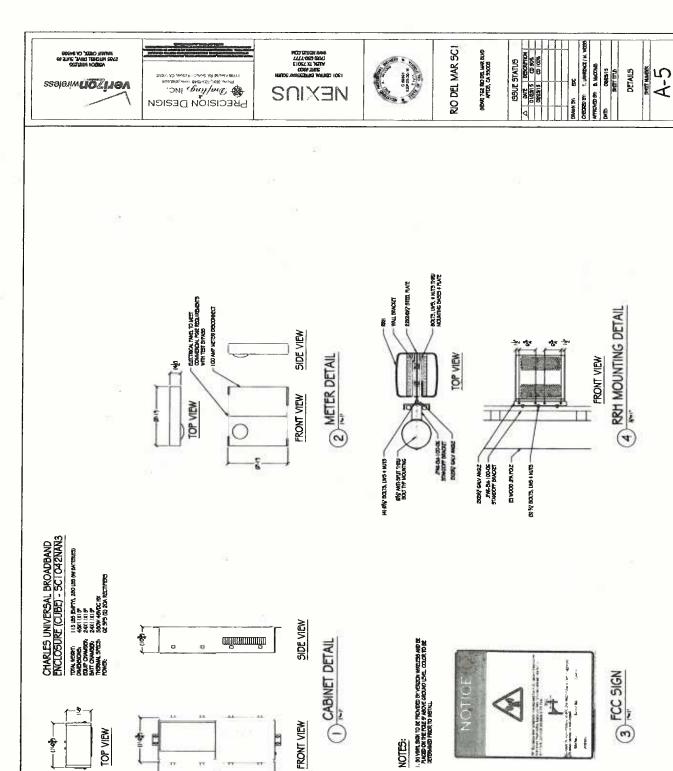




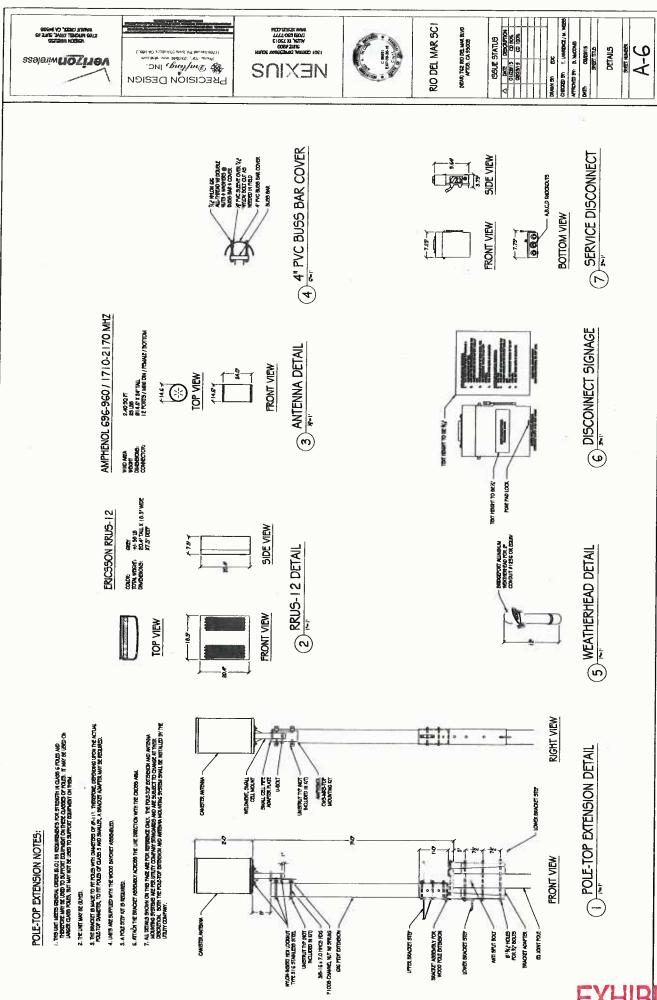
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EXHIBIT





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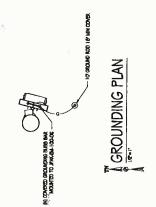
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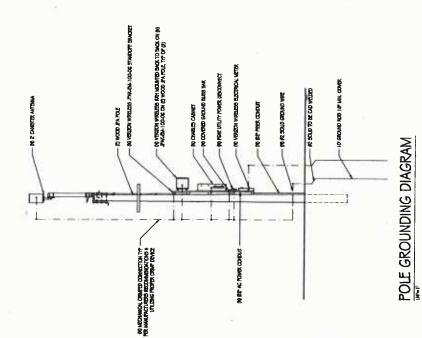
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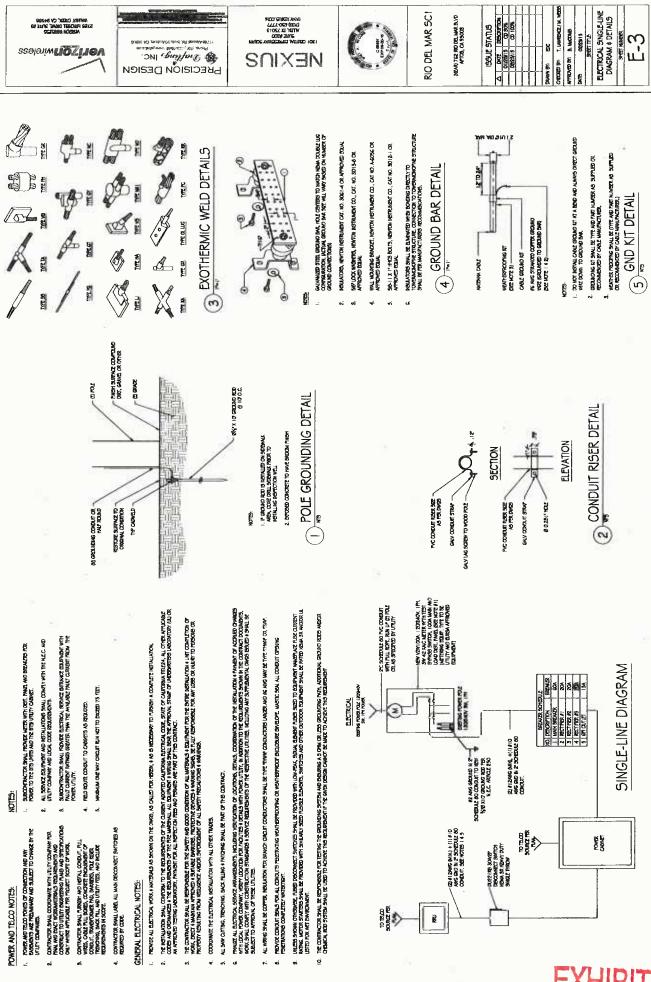
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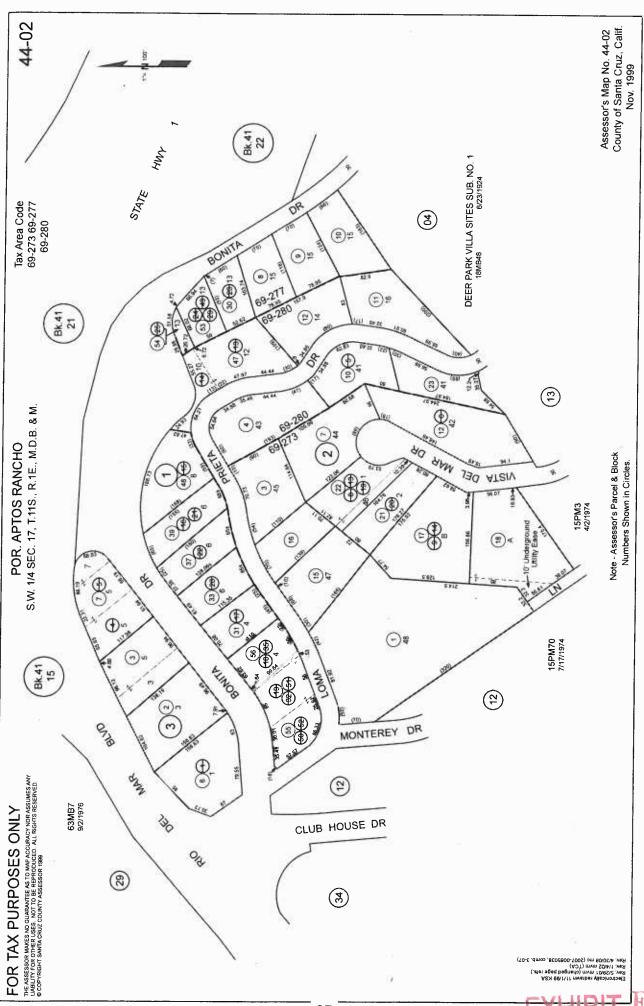
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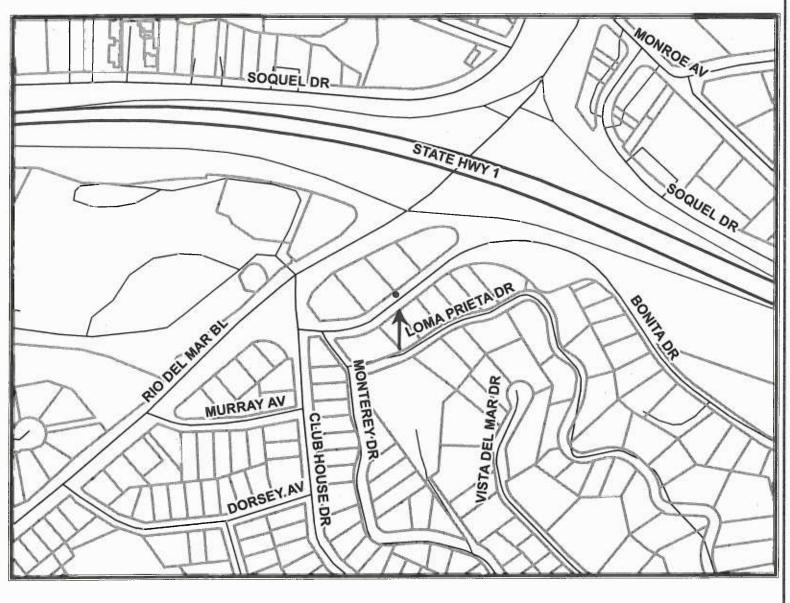








Location Map





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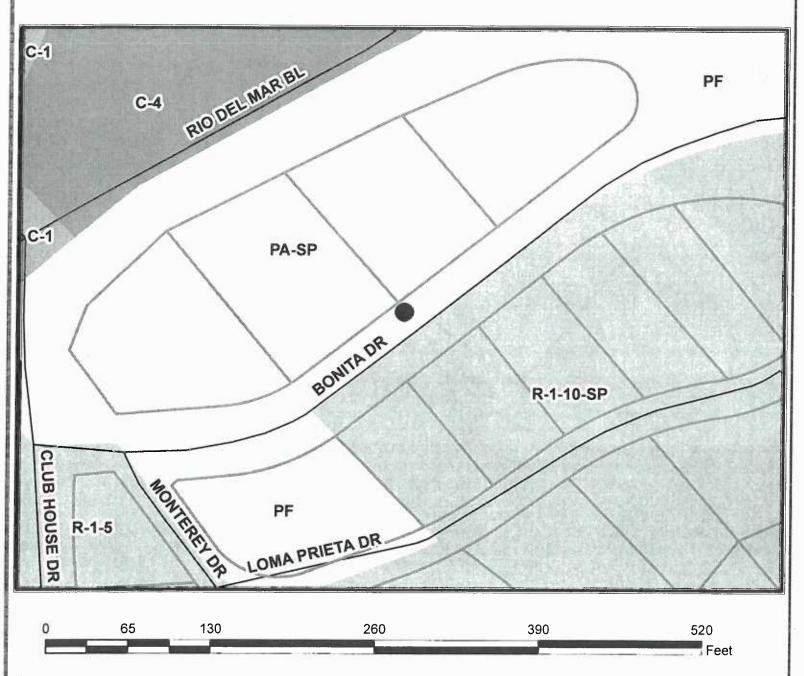
- subject cell site
- Assessors Parcels
- ---- Street
- ---- State Highways

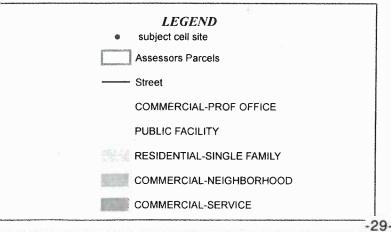


Map Created by County of Santa Cruz Planning Department March 2015



Zoning Map



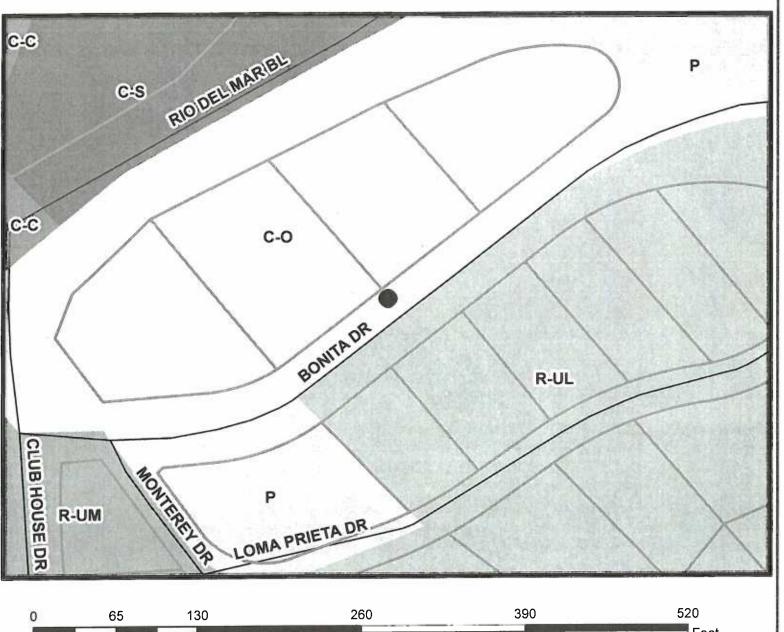


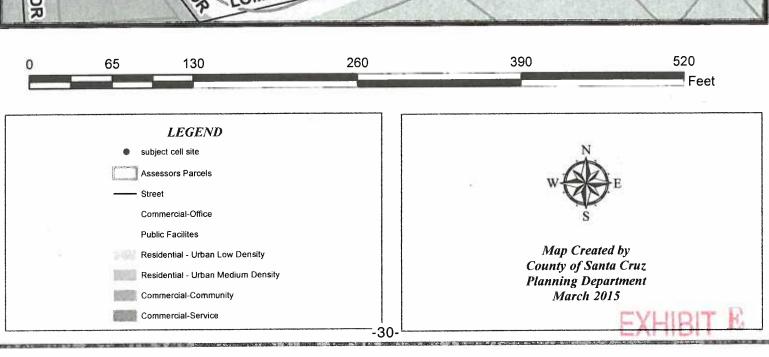


Map Created by County of Santa Cruz Planning Department March 2015



General Plan Designation Map





Radio Frequency - Electromagnetic Energy (RF-EME) Jurisdictional Report

Site No. 284599
Rio Del Mar SC I
762 Rio Del Mar Boulevard
Aptos, California 95003
Santa Cruz County
36° 58′ 27.77″ N, -121° 53′ 13.24″ W NAD83

EBI Project No. 6215001119 February 26, 2015



Prepared for:

Verizon Wireless c/o Nexius San Francisco, CA

Prepared by:



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APPENDIX C ROOFVIEW® EXPORT FILES

EXECUTIVE SUMMARY

Purpose of Report

EnviroBusiness Inc. (dba EBI Consulting) has been contracted by Verizon Wireless to conduct radio frequency electromagnetic (RF-EME) modeling for Verizon Site 284599 located at 762 Rio Del Mar Boulevard in Aptos, California to determine RF-EME exposure levels from proposed Verizon wireless communications equipment at this site. As described in greater detail in Section 2.0 of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general public exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits <u>and</u> there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

As presented in the sections below, based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 8.60 percent of the FCC's general public limit (1.72 percent of the FCC's occupational limit).

Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes instructions to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

MPE Modeled at Nearby Building Locations (Second Story)	% GP MPE	% Oc MPE
Building approx. 177 feet west of site	0.66617%	0.13323%
Building approx. 141 feet southwest of site	1.08355%	0.21671%
Building approx. 47 feet south of the site	7.39847%	1.47969%
Building approx. 89 feet east of the site	2.52569%	0.50314%

1.0 INTRODUCTION

Radio frequency waves are electromagnetic waves from the portion of the electromagnetic spectrum at frequencies lower than visible light and microwaves. The wavelengths of radio waves range from thousands of meters to around 30 centimeters. These wavelengths correspond to frequencies as low as 3 cycles per seconds (or hertz [Hz]) to as high as one gigahertz (one billion cycles per second).

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: I) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed a distance above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of in areas in the immediate vicinity of the antennas.

MPE limits do not represent levels where a health risk exists, since they are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size or health.

2.0 SITE DESCRIPTION

This project site includes one (1) wireless telecommunication antenna (at one sector) on a pole located at 762 Rio Del Mar Boulevard in Aptos, California.

	Verizon .	Antenna Infoi	rmation (p	proposed	Configurat	tion)			
Antenna# and Model	Frequency (MHz)	# of Transmitters	Transmit Power (VVatts)	Azimuth	Gain (dBd)	Feet above Ground (CL)	×	Y	Z
AI Amphenol CWT360X06F	700 2100	2	60 60	Omni	0.4 5.3	36.3	30	30	35.3

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general public that may be exposed to antenna fields. While access to this site is considered uncontrolled, the analysis has considered exposures with respect to both controlled and uncontrolled limits as an untrained worker may access adjacent locations. Additional information regarding controlled/uncontrolled exposure limits is provided in Section 3.0. Appendix B presents a site safety plan that provides a plan view of the pole with antenna locations.



3.0 FEDERAL COMMUNICATIONS COMMISSION (FCC) REQUIREMENTS

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radiofrequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general public/uncontrolled exposure limits for members of the general public.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general public/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General public/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Table I and Figure I (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the Verizon equipment operating at 700 MHz or 850 MHz, the FCC's occupational MPE is 2.83 mW/cm² and an uncontrolled MPE of 0.57 mW/cm². These limits are considered protective of these populations.

Та	ble I: Limits for	Maximum Permiss	sible Exposure (MPI	E)
(A) Limits for Occu	pational/Controlled	Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time [E] ² , [H] ² , or \$ (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f²)*	6
30-300	61.4	0.163	1.0	6

EBI Consulting \$ 21 B Street \$ Burlington, MA 01803 \$ 1.800.786.2346



(A) Limits for Occu	pational/Controlled	d Exposure		F
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time [E] ² , [H] ² , or S (minutes)
300-I,500			f/300	6
1,500-100,000			5	6
(R) I impite for Come	mal Darblic II Imagentee	alled Expenses		
Frequency Range	ral Public/Uncontro	olled Exposure Magnetic Field	Power Density (S)	
			Power Density (S) (mW/cm²)	Averaging Time [E] ² , [H] ² , or S (minutes)
Frequency Range (MHz)	Electric Field Strength (E)	Magnetic Field Strength (H)		$[E]^2, [H]^2, \text{ or } S$
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	(m₩/cm²)	[E] ² , [H] ² , or S (minutes)
Frequency Range (MHz) 0.3-1.34 1.34-30	Electric Field Strength (E) (V/m) 614	Magnetic Field Strength (H) (A/m)	(m₩/cm²) (100)*	[E] ² , [H] ² , or S (minutes) 30
(MHz)	Electric Field Strength (E) (V/m) 614 824/f	Magnetic Field Strength (H) (A/m) 1.63 2.19/f	(m\ ∀/cm²) (100)* (180/f²)*	[E] ² , [H] ² , or S (minutes) 30 30

f = Frequency in (MHz)

^{*} Plane-wave equivalent power density

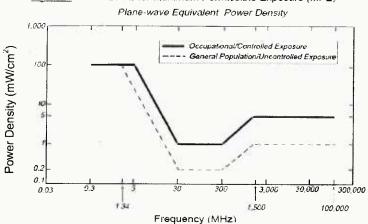


Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)

Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mVV/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq, Range	30-300 MHz	I.00 mW/cm²	0.20 mW/cm ²

MPE limits are designed to provide a substantial margin of safety. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

EXHIBIT F

Personal Communication (PCS) facilities used by Verizon in this area operate within a frequency range of 700-2100 MHz. Facilities typically consist of: 1) electronic transceivers (the radios or cabinets) connected to wired telephone lines; and 2) antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

4.0 WORST-CASE PREDICTIVE MODELING

EBI has performed theoretical modeling using RoofView® software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit.

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. The modeling assumes a maximum 4 radio configuration for Sector A with a power level of 48 dbM (60 watts) per transmitter for 700 and 2100 frequencies, in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by Verizon, and information gathered from other sources. The parameters used for the modeling are summarized in the RoofView® export files presented in Appendix C.

Based on worst-case predictive modeling, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed Verizon antennas that exceed the FCC's occupational or general public exposure limits at this site. At the nearest walking/working surfaces to the Verizon antennas, the maximum power density generated by the Verizon antennas is approximately 8.60 percent of the FCC's general public limit (1.72 percent of the FCC's occupational limit). The composite exposure level from all carriers on this site is approximately 8.60 percent of the FCC's general public limit (1.72 percent of the FCC's occupational limit) at the nearest walking/working surface to each antenna.

The Site Safety Plan also presents areas where Verizon Wireless antennas contribute greater than 5% of the applicable MPE limit for a site. A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

The inputs used in the modeling are summarized in the RoofView® export file presented in Appendix C. A graphical representation of the RoofView® modeling results is presented in Appendix B. It should be noted that RoofView is not suitable for modeling microwave dish antennas; however, these units are designed for point-to-point operations at the elevations of the installed equipment rather than ground level coverage.



5.0 MITIGATION/SITE CONTROL OPTIONS

EBI's modeling indicates that there are no areas in front of the Verizon antenna that exceed the FCC standards for occupational or general public exposure. All exposures above the FCC's safe limits require that individuals be elevated above the ground. In order to alert people accessing the pole, a yellow Caution sign is recommended for installation 25 feet above ground level where RF emissions are predicted to exceed the general population level on the pole.

There are no barriers recommended on this site.

These protocols and recommended control measures have been summarized and included with a graphic representation of the antennas and associated signage and control areas in a RF-EME Site Safety Plan, which is included as Appendix B. Individuals and workers accessing the pole should be provided with a copy of the attached Site Safety Plan, made aware of the posted signage, and signify their understanding of the Site Safety Plan.

Implementation of the signage recommended in the Site Safety Plan and in this report will bring this site into compliance with the FCC's rules and regulations.

6.0 SUMMARY AND CONCLUSIONS

EBI has prepared a Radiofrequency – Electromagnetic Energy (RF-EME) Compliance Report for telecommunications equipment installed by Verizon Site Number 284599 located at 762 Rio Del Mar Boulevard in Aptos, California to determine worst-case predicted RF-EME exposure levels from wireless communications equipment installed at this site. This report summarizes the results of RF-EME modeling in relation to relevant Federal Communications Commission (FCC) RF-EME compliance standards for limiting human exposure to RF-EME fields.

As presented in the sections above, based on the FCC criteria, there are no modeled areas on any accessible ground-level walking/working surface related to the proposed antennas that exceed the FCC's occupational or general public exposure limits at this site. Workers should be informed about the presence and locations of antennas and their associated fields. Recommended control measures are outlined in Section 5.0 and within a Site Safety Plan (attached); this plan includes procedures to shut down and lockout/tagout this wireless equipment in accordance with Verizon's standard operating protocol.

7.0 LIMITATIONS

This report was prepared for the use of Verizon Wireless. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information provided by the client. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to EBI so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.



Appendix A Certifications

Reviewed and Approved by:



Herbert J. Stockinger, PE Senior Engineer

Note that EBI's scope of work is limited to an evaluation of the Radio Frequency – Electromagnetic Energy (RF-EME) field generated by the antennas and broadcast equipment noted in this report. The engineering and design of the building and related structures, as well as the impact of the antennas and broadcast equipment on the structural integrity of the building, are specifically excluded from EBI's scope of work.

EXHIBIT # -

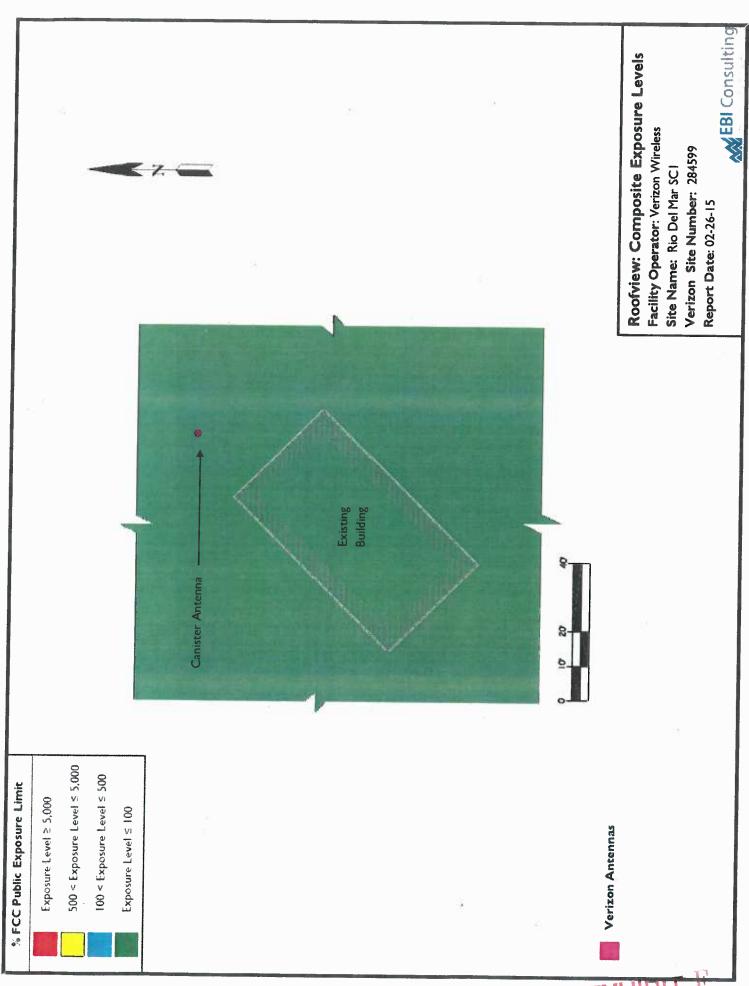
Preparer Certification

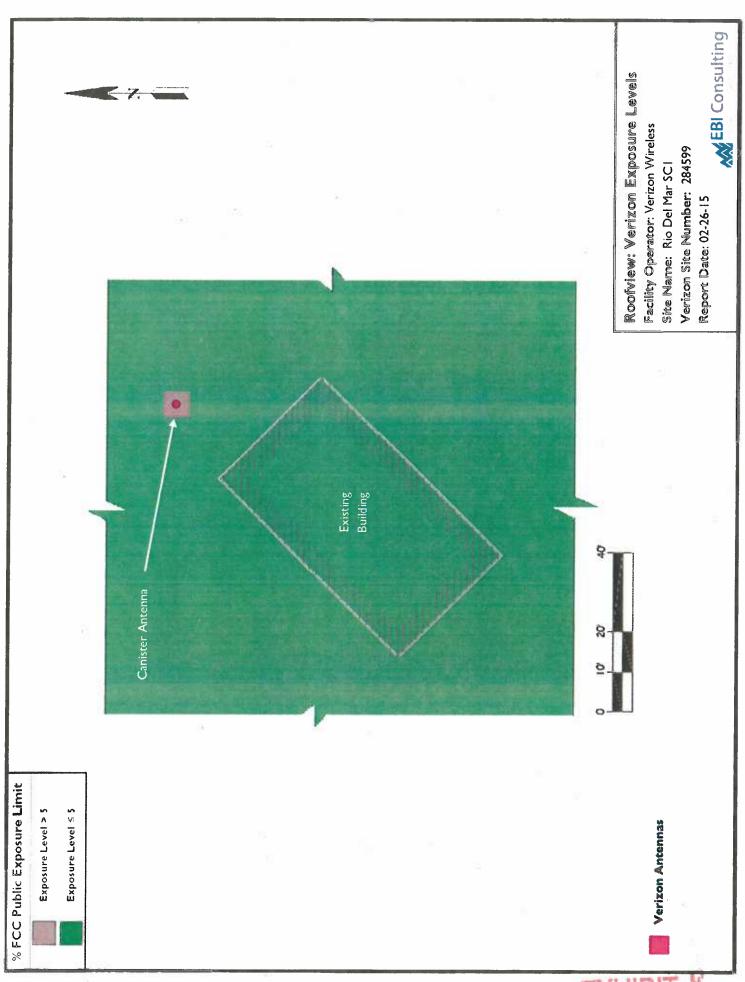
I, Christopher Ilgenfritz, state that:

- I am an employee of EnviroBusiness Inc. (d/b/a EBI Consulting), which provides RF-EME safety and compliance services to the wireless communications industry.
- I have successfully completed RF-EME safety training, and I am aware of the potential hazards from RF-EME and would be classified "occupational" under the FCC regulations.
- I am familiar with the FCC rules and regulations as well as OSHA regulations both in general and as they apply to RF-EME exposure.
- I have reviewed the data provided by the client and incorporated it into this Site Compliance Report such that the information contained in this report is true and accurate to the best of my knowledge.



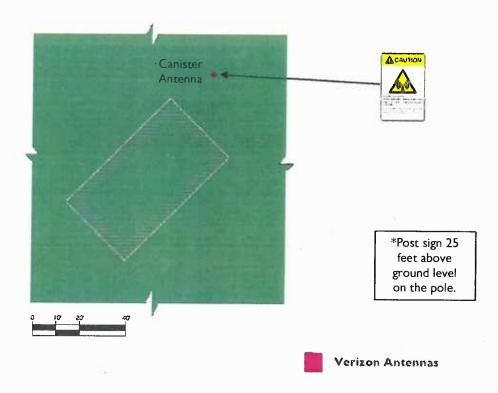
Appendix B Radio Frequency Electromagnetic Energy Safety / Signage Plans





Verizon Signage Plan





Sign Image	Description	Posting Instructions	Required Signage		
A CAUTION	Yellow Caution Sign Used to alert individuals that they are entering an area where the power density emitted from transmitting antennas may exceed the FCC's maximum permissible exposure limit for the general public and the occupational exposure limit.	Securely post on the pole near the antenna in a manner conspicuous to all individuals entering thereon as indicated in the signage plan.	I on the pole 25 feet above ground level near the canister antenna		

Signage Plan

Facility Operator: Verizon Wireless

Site Name: Rio Del Mar SCI Verizon Site Number: 284599

Report Date: 02-26-15

EBI Consulting



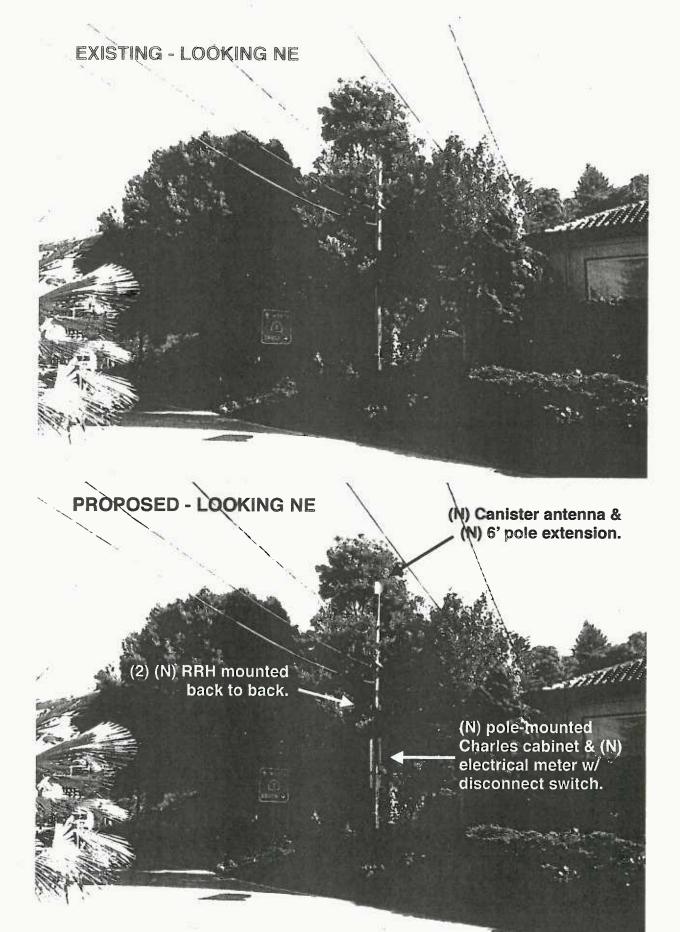
Appendix C Roofview® Export File

	Peas EBS,200 BWdth PP DII PP DIMIN OMNIN
d	List Of Areas SAE\$151:\$CB\$200 dBd B Gain F 5.3 C
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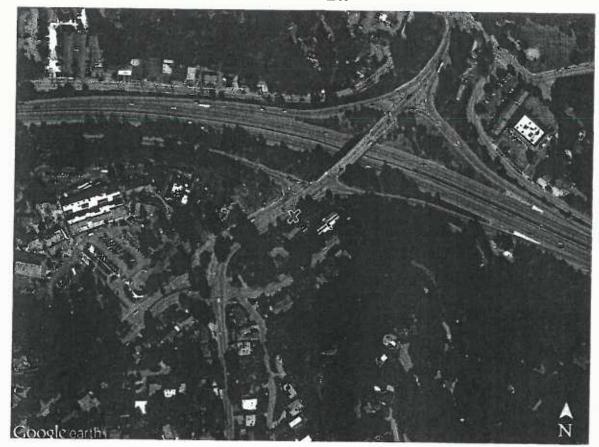
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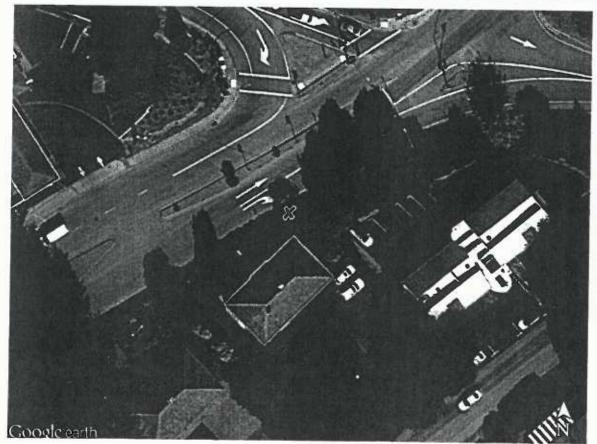






OVERVIEW













April 13, 2015

City of Santa Cruz Attn: Frank Barron Planning Department 701 Ocean St, 4th floor Santa Cruz, CA 95060

RE: Application 151040 - Alternative Site Analysis:

Frank, please see corresponding map attached.

CA-A: Pole has a primary riser. Not allowed for collocation by PG&E.

CA-B: Pole has a primary riser. Not allowed for collocation by PG&E.

CA-C: Pole overloaded. Insufficient climbing space.

CA-D: Pole not recommended by PG&E. Not possible to use a pole top extension due to configuration of existing conduits and insufficient clearances for below the conductors.

CA-E: Poles are not viable candidates. Small cells are not intended for freeway coverage.

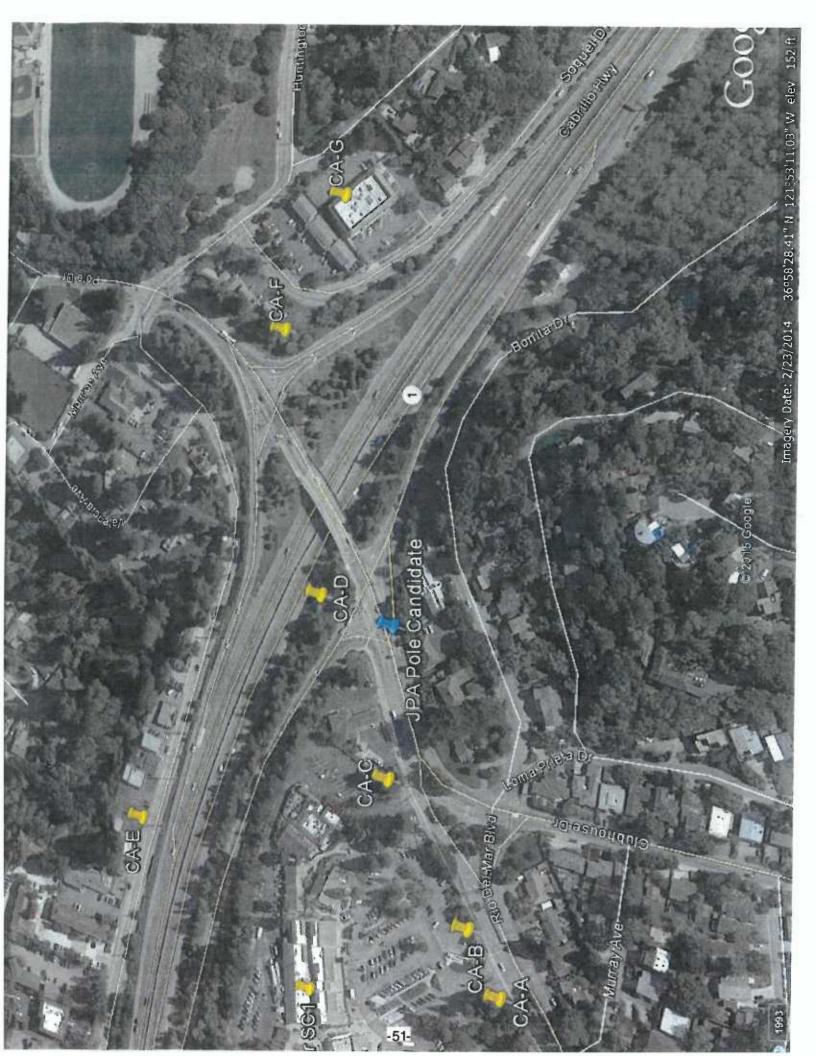
CA-F: Would need a 130' monopole to achieve coverage objective. See attached email from RF

CA- G: Building with existing carriers. The rooftop of this building is approximately 30ft, as indicated for CA-F Verizon would need 130' to achieve coverage objective, therefore a 100' tower would need to be installed on the rooftop to meet the coverage objective given the elevation is the same as the proposed 130' monopole.

In addition to the reasons above for why these alternative sites aren't suitable, having a site shoot across the freeway itself is not a good idea in terms of how the network works. If a cell site to shoots across HWY 1 a normal user crossing this area in a vehicle will actually have a worse customer experience since the user devices will drop their connection from their current cell sites, and make a new connection to this cell site across Hwy 1. Having the small cell on the West side of Hwy 1 shooting directly at Deer Park Plaza will eliminate dropped calls on Hwy 1 and aesthetically is more pleasing.

Thank you, Gary Gochberg Agent for Verizon





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19			