

**Case File Number: PLN16-363**

**March 1, 2017**

**Location:** The public Right of Way in front of 6519 Arthur Street on a PG&E Utility /Telephone Pole (See map on reverse)

**Assessor Parcel Numbers:** (039-3258-002-00) nearest lot adjacent to the project site.

**Proposal:** Installation of a wireless telecommunication facility on a wooden utility pole located in the public right-of-way. The project involves replacement of an existing 36' tall, wood, utility pole with a new 48' tall, PG&E pole and installation of one (1) canister antenna located within an antenna shroud measuring 23.5" long and 7.9" in diameter at a height of 18' and two radio units (7.9" tall and 7.9" wide) mounted 10'-6" and 13'-11" above ground.

**Applicant:** Black & Veatch for Extenet Systems

**Contact Person/ Phone Number:** Ana Gomez of Black & Veatch (913) 458-9148

**Owner:** Pacific Gas & Electric (PG&E)

**Case File Number:** PLN16-436

**Planning Permits Required:** Major Design Review to install a wireless Macro Telecommunications Facility on a replaced PG&E utility pole located in the public right -of- way in a residential zone.

**General Plan:** Detached Unit Residential

**Zoning:** RD-1 Detached Unit Residential

**Environmental Determination:** Exempt, Exempt, Section 15301 of the State CEQA Guidelines; minor additions and alterations to an existing PG&E utility pole; Section 15302 of the State CEQA Guidelines, replacement or reconstruction of existing utility systems and/or facilities; Section 15303, new construction or conversion of small structures; and Section 15183; projects consistent with a community plan, general plan or zoning.

**Historic Status:** No Historic Record – Utility Pole

**Service Delivery District:** 4

**City Council District:** 6

**Date Filed:** November 20, 2016

**Finality of Decision:** Appealable to City Council within 10 Days

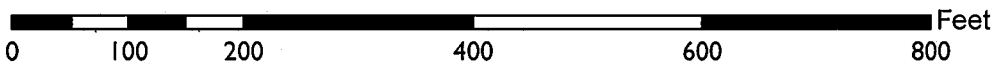
**For Further Information:** Contact case planner Jason Madani at (510) 238-4790 or [jmadani@oaklandnet.com](mailto:jmadani@oaklandnet.com)

**SUMMARY**

The project applicant (Extenet Systems) is proposing to install a wireless telecommunication facility located in the public right-of-way near 6519 Arthur Street. The project involves replacement of an existing 36' tall wooden PG&E utility pole with a 48' tall wooden utility pole at the same location and installation of one canister antenna within an antenna shroud and two radio units.

Major Design Review is required for the installation of a new Macro Telecommunications Facility in a residential zone. The proposed new pole, antenna and associated equipment is

# CITY OF OAKLAND PLANNING COMMISSION



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Applicant: Black & Veatch for Extenet Systems  
Address: The public Right of Way near  
6519 Arthur Street. JPA Utility Telephone Pole  
Zone: RD-1

similar to other utility poles and equipment within the same block and around the City. The antenna shroud will extend toward the street away from the adjacent residences. The antenna shroud and associated equipment will be painted grey or brown to match the pole and/or other utilities located on the pole. As result, the proposed telecommunication facility is an appropriate location and would not significantly increase negative visual impacts to adjacent neighboring residential properties. The project meets all the required findings for approval of the project.

## **TELECOMMUNICATIONS BACKGROUND**

### **Limitations on Local Government Zoning Authority under the Telecommunications Act of 1996**

Section 704 of the Telecommunications Act of 1996 (TCA) provides federal standards for the siting of "Personal Wireless Services Facilities." "Personal Wireless Services" include all commercial mobile services (including personal communications services (PCS), cellular radio mobile services, and paging); unlicensed wireless services; and common carrier wireless exchange access services. Under Section 704, local zoning authority over personal wireless services is preserved such that the FCC is prevented from preempting local land use decisions; however, local government zoning decisions are still restricted by several provisions of federal law. Specifically:

- Under Section 253 of the TCA, no state or local regulation or other legal requirement can prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service.
- Further, Section 704 of the TCA imposes limitations on what local and state governments can do. Section 704 prohibits any state and local government action which unreasonably discriminates among personal wireless providers. Local governments must ensure that its wireless ordinance does not contain requirements in the form of regulatory terms or fees which may have the "effect" of prohibiting the placement, construction, or modification of personal wireless services.
- Section 704 also preempts any local zoning regulation purporting to regulate the placement, construction and modification of personal wireless service facilities on the basis, either directly or indirectly, on the environmental effects of radio frequency emissions (RF) of such facilities, which otherwise comply with Federal Communications Commission (FCC) standards in this regard. (See 47 U.S.C. Section 332(c)(7)(B)(iv) (1996)). This means that local authorities may not regulate the siting or construction of personal wireless facilities based on RF standards that are more stringent than those promulgated by the FCC.
- Section 704 mandates that local governments act upon personal wireless service facility siting applications to place, construct, or modify a facility within a reasonable time (See 47 U.S.C.332(c)(7)(B)(ii) and FCC Shot Clock ruling setting forth "reasonable time" standards for applications deemed complete).
- Section 704 also mandates that the FCC provide technical support to local governments in order to encourage them to make property, rights-of-way, and easements under their

jurisdiction available for the placement of new spectrum-based telecommunications services. This proceeding is currently at the comment stage.

For more information on the FCC's jurisdiction in this area, consult the following: Competition & Infrastructure Policy Division (CIPD) of the Wireless Telecommunications Bureau, main division number: (202) 418-1310. <https://www.fcc.gov/general/competition-infrastructure-policy-division-wireless-telecommunications-bureau>

### **PROPERTY DESCRIPTION**

The existing 36' tall wooden PG&E utility pole is located in the City of Oakland public right-of-way near 6519 Arthur Street.

### **PROJECT DESCRIPTION**

As shown in Attachment A, the project applicant proposes to:

- Replace an existing 36' tall wooden PG&E utility pole with a 48' tall wood utility pole in the same location,
- Install one canister antenna within an antenna shroud measuring 23.5" long and 7.9" in diameter at a height of 18' extending toward street,
- Install two radio units measuring 7.9" tall and 7.9" wide mounted at a height of 13'-11" and 10'-6" above ground,
- Install an associated breaker box and smart meter mounted 8' above ground, and
- Paint the proposed antennas and associated equipment grey or brown to match the pole and/or other utilities located on the pole.

No portion of the telecommunication facilities will be located on the ground within City of Oakland public right-of-way. The proposed antenna and associated equipment will not be accessible to the public.

### **GENERAL PLAN ANALYSIS**

The site is classified Detached Unit Residential per the Oakland General Plan's Land Use and Transportation Element (LUTE). This classification is intended to create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by detached, single unit structures. "Future development within this classification should be primarily residential in character."

The proposed unmanned wireless telecommunication facility, mounted on a replaced utility pole, will not adversely affect and detract from the characteristics of the neighborhood.



## **ZONING ANALYSIS**

The proposed telecommunication facility is located within the RD-1 Detached Unit Residential Zone. The intent of the RD-1 Zone is to create, maintain, and enhance areas with detached, single unit structures. A limited number of commercial uses are permitted or conditionally permitted in existing non-residential facilities.

Sections 17.136.040 and 17.128.070 of the City of Oakland Planning Code require a Major Design Review permit for Macro Telecommunication facilities that are attached to utility poles in the RD-1 Zone or that are located within one hundred (100) feet of the boundary of any residential zone. Special findings are also required for Design Review approval to ensure that the facility is concealed to the greatest extent possible. The project design is discussed later in the Key Issues section of this report and the required findings for Major Design Review are listed and included in staff's evaluation later in this report.

## **ENVIRONMENTAL DETERMINATION**

The California Environmental Quality Act (CEQA) Guidelines lists the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15301; minor additions and alterations to an existing PG&E utility pole; 15302, replacement or reconstruction of existing utility systems and/or facilities; Section 15303, new construction or conversion of small structures, and Section 15183, projects consistent with the General Plan or Zoning.

## **KEY ISSUES AND IMPACTS**

### **Project Site**

Section 17.128.110 of the City of Oakland Telecommunication Regulations requires that new wireless facilities shall generally be located on designated properties or facilities in the following ranked order of preference:

- A. Co-located on an existing structure or facility with existing wireless antennas.
- B. City owned properties or other public or quasi-public facilities.
- C. Existing commercial or industrial structures in non-residential zones (excluding all HBX Zones and the D-CE3 and D-C-4 Zones).
- D. Existing commercial or industrial structures in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- E. Other non-residential uses in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
- F. Residential uses in non-residential zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
- G. Residential uses in residential zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.

Facilities sited on an A, B or C ranked preferences do not require a site alternatives analysis. Since the proposed project involves the replacement of the utility pole and installation of new antenna and radio units within an RD-1 Zone, the proposed project meets preferences B, and a

site alternatives analysis is not required. However, applicant has provided a site alternative analysis. (Attachment B)

### **Alternative Site Analysis:**

The project is located in an area with existing residential structures. The project applicant considered alternative sites on other utility poles in this area but none of these sites are as desirable from a service coverage perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area. The proposed location is approximately equidistant from other Distributed Antenna Systems (DAS) nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Staff has reviewed the applicant's alternative sites analysis and determined that the site selected conforms to the telecommunication regulation requirements. In addition, staff agrees that no other sites are more suitable.

### **Project Design**

Section 17.128.120 of the City of Oakland Telecommunications Regulations requires that new wireless facilities shall generally be designed in the following order of preference:

- A. Building or structure mounted antennas completely concealed from view.
- B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
- D. Building or structure mounted antennas above roof line visible from public right of-way.
- E. Monopoles.
- F. Towers.

Facilities designed to meet an A and B ranked preference do not require a site design alternatives analysis. Facilities designed to meet a C through F ranked preference, inclusive, must submit a site design alternatives analysis as part of the required application materials. The site design alternatives analysis shall, at a minimum, consist of:

Written evidence indicating why each higher preference design alternative cannot be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

Since the proposed project does not meet preference A and B, a site design alternatives analysis is required.

**Alternative Design Analysis:**

The project applicant submitted an alternative design analysis (Attachment B). The analysis evaluated whether the equipment could be undergrounded and concealed from view. Unfortunately, this is not possible because there is insufficient right-of-way space for the necessary equipment access and the equipment would be compromised by rainwater saturation. The proposed design is a good option because the facility is located where a signal can be adequately propagated without obstruction, which could not have been the case if the antenna was located on a building and concealed.

Planning staff has reviewed the applicant's alternative design analysis and determined that the site selected conforms to the telecommunication regulation requirements. Specifically, given the flat topography, streamlined equipment design and location of the replaced pole between two existing single-family dwellings, the facility will blend in with the existing utility apparatus on the replaced 48' tall, wooden pole. In addition, the proposed new antennas are located within a shroud screening. Both the antennas and the radio units will be attached above head height, 10'-18' above the ground. Finally, the shroud and radio units will be painted grey to match the other utilities or brown to match the pole.

**Project Radio Frequency Emissions Standards**

Section 17.128.130 of the City of Oakland Telecommunication Regulations requires that the applicant submit the following verifications including requests for modifications to existing facilities:

- a. The telecommunications regulations require that the applicant submit written documentation demonstrating that the emission from the proposed project are within the limits set by the Federal Communications Commission.
- b. Prior to final building permit sign off, an RF emissions report indicating that the site is actually operating within the acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.

In the analysis prepared by Hammett & Edison, Inc. (Attachment C), the proposed project was evaluated for compliance with appropriate guidelines limiting human exposure to radio frequency electromagnetic fields. According to the report, the project will comply with the prevailing standards for limiting public exposure to radio frequency energy, and therefore, the proposed site will operate within the current acceptable thresholds as established by the Federal government or any such agency that may be subsequently authorized to establish such standards. The RF emissions report, states that the proposed project will not cause a significant impact on the environment. Additionally, staff recommends that, prior to the final building permit sign off, the applicant submit a certified RF emissions report stating that the facility is operating within acceptable thresholds established by the regulatory federal agency.

**CONCLUSION**

The proposed project meets all the required findings for approval. The proposal will provide an essential telecommunication service to the community and the City of Oakland at large. It will also be available to emergency services such as police, fire department and emergency response teams. Staff believes that the proposal is designed to meet the established zoning and telecommunication regulations and recommends supporting the Major Design Review application.

**RECOMMENDATIONS:**

1. Affirm staff's environmental determination
2. Approve Design Review application, subject to the attached findings and conditions of approval.

Prepared by:




Jason Madani  
Planner II

Reviewed by:



Scott Miller  
Zoning Manager

Approved for forwarding to the  
City Planning Commission



Darin Ranelletti, Interim Director  
Planning and Building Bureau

**ATTACHMENTS:**

- A. Project Plans & Photo simulations
- B. Site & Design Alternative Analysis
- C. Hammett & Edison, Inc., Consulting Engineering RF Emissions Report

**FINDINGS FOR APPROVAL****FINDINGS FOR APPROVAL:**

This proposal meets all the required findings under Section 17.136.050(B), of the Non-Residential Design Review criteria and all the required findings under Section 17.128.070(B), of the telecommunication facilities (Macro) Design Review criteria and as set forth below: Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

**17.136.050(B) – NONRESIDENTIAL DESIGN REVIEW CRITERIA:**

**1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060;**

The project involves replacement of an existing 36' tall wooden utility pole with a 48' tall PG&E utility pole and installation of one antenna within an antenna shroud and two radio units mounted above the breaker box and smart meter. The pole will be similar to other wood PG&E poles found in the area and throughout the City. In addition, the proposed antennas and radio units will be typical of the utility equipment found on these poles, located high up on the pole, oriented toward the street and painted grey or brown to match the pole or other equipment. Therefore, the facility will not adversely affect and detract from the residential characteristics of the neighborhood.

**2. That the proposed design will be of a quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area;**

The proposal improves wireless telecommunication service in the residential area. The facility will be camouflaged by the slim antenna canister, extending toward the street and painted grey or brown to blend in with the existing surrounding area. These measures will result in the proposal having minimal visual impacts on public views and protecting the value of private and public investments in the area. Service will also be available to emergency services such as police, fire department and emergency response teams.

**3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.**

The site is classified as Detached Unit Residential per the Oakland General Plan's Land Use and Transportation Element (LUTE). This classification is intended to create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by detached, single unit structures. "Future development within this classification should be primarily residential in character."

Section 17.128.120 of the City of Oakland Telecommunications Regulations describes the design criteria for wireless facilities. In general, these facilities should either be concealed from view or not visible from the public right of way. Since the project did not meet either ranked criteria, but did meet criteria C as described above, an alternative site design study needed to be undertaken. The analysis shows that the proposed pole will be similar to other utility poles within the same block. The proposed antennas and related equipment are compatible with, and typical of, the utility equipment on these poles. Furthermore, the proposed antenna shroud will extend toward the street, be located away from the adjacent homes, and painted to match either the pole or utilities. As result, the proposal is consistent with the telecommunication regulation requirements, is in an appropriate location, and of an appropriate design that would not significantly increase negative visual impacts to adjacent neighboring residential properties

**17.128.070(B) DESIGN REVIEW CRITERIA FOR MACRO FACILITIES**

**1. Antennas should be painted and/or textured to match the existing structure:**

The antennas and equipment will be painted grey to match the existing utility equipment or brown to match the proposed wooden utility pole in order to minimize the potential visual impact.

**2. Antennas mounted on architecturally significant structures or significant architectural details of the building should be covered by appropriate casings which are manufactured to match existing architectural features found on the building:**

The proposed antennas and equipment will not be mounted onto an architecturally significant structure but onto a replaced wooden utility pole similar to other poles in the City and the block.

**3. Where feasible, antennas can be placed directly above, below or incorporated with vertical design elements of a building to help in camouflaging:**

The proposed antennas will be placed above head height, and vertically in line with the proposed utility pole. The equipment will be painted to match pole or utility equipment to blend with the surroundings.

**4. Equipment shelters or cabinets shall be screened from the public view by using landscaping, or materials and colors consistent with surrounding backdrop:**

The associated antennas will be located within a shroud attached to a replaced utility pole and painted to match the proposed wooden pole or the other utilities in order to minimize visual impacts on the neighboring properties.

**5. Equipment shelters or cabinets shall be consistent with the general character of the area.**

See above finding # 4

**6. For antennas attached to the roof, maintain a 1:1 ratio for equipment setback; screen the antennas to match existing air conditioning units, stairs, or elevator towers; avoid placing roof mounted antennas in direct line with significant view corridors.**

N/A

**7. That all reasonable means of reducing public access to the antennas and equipment has been made, including, but not limited to, placement in or on buildings or structures, fencing, anti-climbing measures and anti-tampering devices.**

The proposed screened antenna will be mounted at a height of 18' on a replaced PG&E utility pole and will not be accessible to the public due to its location. The radio unit equipment will be attached to the pole more than 10'-6" above the ground.

**STANDARD CONDITIONS:****1. Approved Use**

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, and the approved plans dated **September 29, 2016** and submitted on **November 20, 2016** as amended by the following conditions of approval and mitigation measures, if applicable (“Conditions of Approval” or “Conditions”).

**2. Effective Date, Expiration, Extensions and Extinguishment**

This Approval shall become effective immediately, unless the Approval is appealable, in which case the Approval shall become effective in ten calendar days unless an appeal is filed. Unless a different termination date is prescribed, this Approval shall expire **two years** from the Approval date, or from the date of the final decision in the event of an appeal, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this Approval, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit or other construction-related permit for this project may invalidate this Approval if said Approval has also expired. If litigation is filed challenging this Approval, or its implementation, then the time period stated above for obtaining necessary permits for construction or alteration and/or commencement of authorized activities is automatically extended for the duration of the litigation.

**3. Compliance with Other Requirements**

The project applicant shall comply with all other applicable federal, state, regional, and local laws/codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City’s Bureau of Building, Fire Marshal, and Public Works Department. Compliance with other applicable requirements may require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition #4.

**4. Minor and Major Changes**

- a. Minor changes to the approved project, plans, Conditions, facilities, or use may be approved administratively by the Director of City Planning
- b. Major changes to the approved project, plans, Conditions, facilities, or use shall be reviewed by the Director of City Planning to determine whether such changes require submittal and approval of a revision to the Approval by the original approving body or a new independent permit/approval. Major revisions shall be reviewed in accordance with the procedures required for the original permit/approval. A new independent permit/approval shall be reviewed in accordance with the procedures required for the new permit/approval.

**5. Compliance with Conditions of Approval**

- a. The project applicant and property owner, including successors, (collectively referred to hereafter as the “project applicant” or “applicant”) shall be responsible for compliance with all the Conditions of Approval and any recommendations contained in any submitted and



approved technical report at his/her sole cost and expense, subject to review and approval by the City of Oakland.

- b. The City of Oakland reserves the right at any time during construction to require certification by a licensed professional at the project applicant's expense that the as-built project conforms to all applicable requirements, including but not limited to, approved maximum heights and minimum setbacks. Failure to construct the project in accordance with the Approval may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension, or other corrective action.
- c. Violation of any term, Condition, or project description relating to the Approval is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approval or alter these Conditions if it is found that there is violation of any of the Conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions. The project applicant shall be responsible for paying fees in accordance with the City's Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Approval or Conditions.

**6. Signed Copy of the Approval/Conditions**

A copy of the Approval letter and Conditions shall be signed by the project applicant, attached to each set of permit plans submitted to the appropriate City agency for the project, and made available for review at the project job site at all times.

**7. Blight/Nuisances**

The project site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60 days of approval, unless an earlier date is specified elsewhere.

**8. Indemnification**

- a. To the maximum extent permitted by law, the project applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the Oakland Redevelopment Successor Agency, the Oakland City Planning Commission, and their respective agents, officers, employees, and volunteers (hereafter collectively called "City") from any liability, damages, claim, judgment, loss (direct or indirect), action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul this Approval or implementation of this Approval. The City may elect, in its sole discretion, to participate in the defense of said Action and the project applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.
- b. Within ten (10) calendar days of the filing of any Action as specified in subsection (a) above, the project applicant shall execute a Joint Defense Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Joint Defense Letter of Agreement shall survive termination, extinguishment, or invalidation of the Approval. Failure to timely execute the Letter of

Agreement does not relieve the project applicant of any of the obligations contained in this Condition or other requirements or Conditions of Approval that may be imposed by the City.

**9. Severability**

The Approval would not have been granted but for the applicability and validity of each and every one of the specified Conditions, and if one or more of such Conditions is found to be invalid by a court of competent jurisdiction this Approval would not have been granted without requiring other valid Conditions consistent with achieving the same purpose and intent of such Approval.

**10. Job Site Plans**

***Ongoing throughout demolition, grading, and/or construction***

At least one (1) copy of the stamped approved plans, along with the Approval Letter and Conditions of Approval, shall be available for review at the job site at all times.

**11. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Management**

***Prior to issuance of a demolition, grading, and/or construction permit***

The project applicant may be required to pay for on-call special inspector(s)/inspections as needed during the times of extensive or specialized plan check review, or construction. The project applicant may also be required to cover the full costs of independent technical and other types of peer review, monitoring and inspection, including without limitation, third party plan check fees, including inspections of violations of Conditions of Approval. The project applicant shall establish a deposit with the Building Services Division, as directed by the Building Official, Director of City Planning or designee.

**12. Public Improvements**

The project applicant shall obtain all necessary permits/approvals, such as encroachment permits, obstruction permits, curb/gutter/sidewalk permits, and public improvement (“p-job”) permits from the City for work in the public right-of-way, including but not limited to, streets, curbs, gutters, sidewalks, utilities, and fire hydrants. Prior to any work in the public right-of-way, the applicant shall submit plans for review and approval by the Bureau of Planning, the Bureau of Building, and other City departments as required. Public improvements shall be designed and installed to the satisfaction of the City.

**13. Days/Hours of Construction Operation**

***Ongoing throughout demolition, grading, and/or construction***

The project applicant shall require construction contractors to limit standard construction activities as follows:

- a) Construction activities are limited to between 7:00 AM and 7:00 PM Monday through Friday, except that pile driving and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. Monday through Friday.
- b) Any construction activity proposed to occur outside of the standard hours of 7:00 am to 7:00 pm Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident’s preferences for whether the activity is acceptable if the

- overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.
- c) Construction activity shall not occur on Saturdays, with the following possible exceptions:
    - i. Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division.
    - ii. After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed.
  - d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.
  - e) No construction activity shall take place on Sundays or Federal holidays.
  - f) Construction activities include but are not limited to: truck idling, moving equipment (including trucks, elevators, etc) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.

#### **14. Radio Frequency Emissions**

***Prior to the final building permit sign off.***

The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

#### **15. Camouflage**

**Requirement:** The antenna shall be painted, texturized, and maintained matte silver, and the equipment and any other accessory items including cables matte brown, to better camouflage the facility to the utility pole and attached power line posts.

**When Required:** Prior to a final inspection

**Initial Approval:** N/A

**Monitoring/Inspection:** Bureau of Building

#### **16. Operational**

**Ongoing.**

Noise levels from the activity, property, or any mechanical equipment on site shall comply with the performance standards of Section 17.120 of the Oakland Planning Code and Section 8.18 of the Oakland Municipal Code. If noise levels exceed these standards, the activity causing the noise shall be abated until appropriate noise reduction measures have been installed and compliance verified by the Planning and Zoning Division and Building Services.

#### **17. Possible District Undergrounding PG&E Pole**

**Ongoing**

Should the PG &E utility pole be voluntarily removed for purposes of district undergrounding or otherwise, the telecommunications facility can only be re-established by

applying for and receiving approval of a new application to the Oakland Planning Department as required by the regulations.

**Applicant Statement**

I have read and accept responsibility for the Conditions of Approval. I agree to abide by and conform to the Conditions of Approval, as well as to all provisions of the Oakland Planning Code and Oakland Municipal Code pertaining to the project.

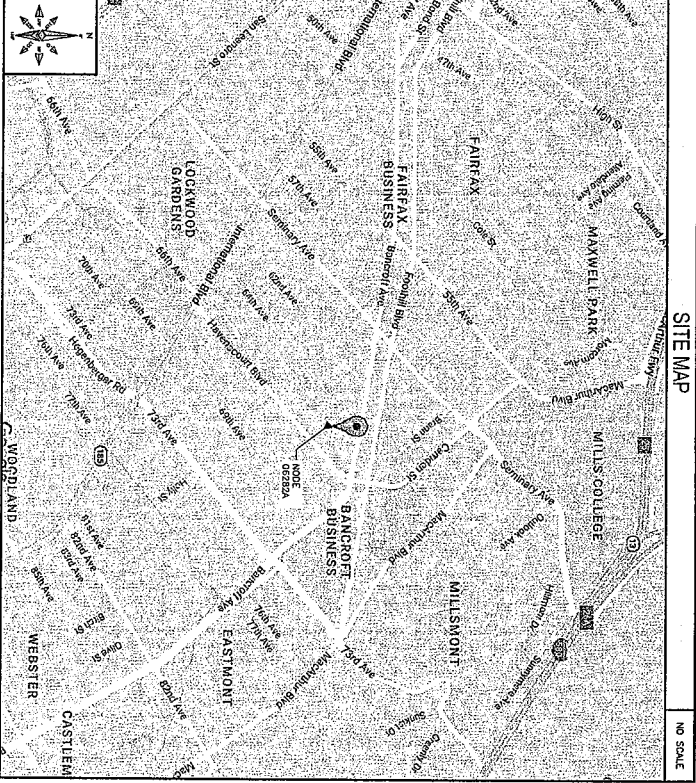
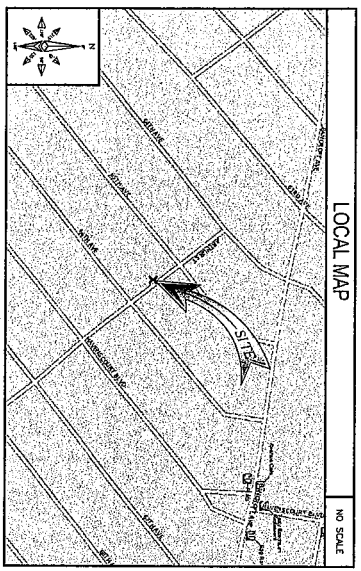
\_\_\_\_\_  
Name of Project Applicant

\_\_\_\_\_  
Signature of Project Applicant

\_\_\_\_\_  
Date

# NW-CA-SANFRMNC 06282A

ADJACENT TO (IN PROW)  
6519 ARTHUR STREET  
OAKLAND, CA 94605



## SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
06-1	GENERAL NOTES AND LEGEND
C-1	OVERALL SITE PLAN
C-2	UTILITY POLE ELEVATIONS AND Riser DETAILS
C-3	EQUIPMENT DETAILS
C-4	EQUIPMENT DETAILS

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

Attachment A

## POLE OWNER

OWNER: EXTENET SYSTEMS CA, LLC  
 CONTACT: MATTHEW YERGENICH  
 ADDRESS: 2000 CROW CANYON PL., SUITE 210, SAN RAMON, CA 94583  
 PHONE: -

## PROJECT INFORMATION

COMPANY: EXTENET SYSTEMS (CALIFORNIA), LLC  
 CONTACT: MATTHEW YERGENICH  
 ADDRESS: 2000 CROW CANYON PL., SUITE 210, SAN RAMON, CA 94583  
 PHONE: (415) 586-3474  
 E-MAIL: MFERGON@EXTENETSYSTEMS.COM

## APPLICANT

COMPANY: BLACK & VEATCH  
 ENGINEER: ARON EWING  
 PHONE: (925) 998-0791  
 E-MAIL: EAWING@BVC.COM

## AGENT

COMPANY: BLACK & VEATCH  
 ENGINEER: ARON EWING  
 PHONE: (925) 998-0791  
 E-MAIL: EAWING@BVC.COM

## ENGINEER

COMPANY: BLACK & VEATCH  
 ENGINEER: ARON EWING  
 PHONE: (925) 998-0791  
 E-MAIL: EAWING@BVC.COM

## PROJECT DATA

LATITUDE: 37.78500°  
 LONGITUDE: -122.18534°  
 POLE #: 11022098  
 ELEVATION: NA  
 ZONING JURISDICTION: CITY OF OAKLAND  
 ZONING DISTRICT: RP-1  
 NEAREST A.P.N.: 35-3256-2  
 OCCUPANCY: U, UNIMPAVED  
 ATTACHMENTS TO A WOOD UTILITY POLE FACILITY IS UNIMPAVED AND NOT FOR FUTURE HABITATION. THIS PROJECT IS EXEMPT.

CONTRACTOR SHALL VERIFY ALL DIMS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR SAME BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CALIFORNIA ELECTRICAL CODE (C.E.C.), CALIFORNIA GOVERNING AUTHORITIES (AS APPLICABLE), NOTHING IN THESE PLANS IS TO BE CONSIDERED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. IBC - 2012  
 2. CALIFORNIA BUILDING STANDARDS CODE - 2013  
 3. CALIFORNIA ELECTRICAL CODE 2013  
 4. CALIFORNIA MECHANICAL CODE 2013  
 5. CALIFORNIA PLUMBING CODE 2013  
 6. CALIFORNIA FIRE CODE 2013  
 7. CITY AND/OR COUNTY ORDINANCES  
 8. 2012 INTERNATIONAL FEE CODE  
 9. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA) PUBLISHING THE 2012 INTERNATIONAL FEE CODE

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PROJECT NO. DRAWN BY: 1924174501 SMI DAC

1. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.  
 2. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS OF THE JOB SITE AND CORRECT ANY WORK AS NECESSARY TO ACCOMMODATE THE SCOPE OF WORK AS ACCOMPANIED AS SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.  
 3. ALL FIELD CONDITIONS BEFORE, DURING OR AFTER CONSTRUCTION SHALL BE REPORTED IMMEDIATELY TO THE SYSTEMS REPRESENTATIVE.  
 4. NOTIFY ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.  
 5. NOTIFY EXTENET SYSTEMS, IN WRITING, OF ANY MAJOR DISCREPANCIES OR CONDITIONS THAT MAY AFFECT THE CONTRACT DOCUMENTS, EXISTING CONDITIONS OR REQUIRE THE CONTRACT DOCUMENTS, EXISTING CONDITIONS OR REQUIRE THE CONTRACT DOCUMENTS, EXISTING CONDITIONS FOR OBTAINING CLARIFICATIONS FROM AN EXTENET REPRESENTATIVE, AND NOTIFYING THE BO.  
 6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK UNDER THE CONTRACT.  
 7. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION TO THE SATISFACTION OF AN EXTENET SYSTEMS REPRESENTATIVE.  
 8. CONTRACTOR PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE, INCLUDING THE FINAL INSPECTION BY EXTENET OR THE SYSTEMS REPRESENTATIVE, AND THE FINAL INSPECTION BY THE SYSTEMS REPRESENTATIVE.  
 9. VERIFY ALL FINAL EQUIPMENT WITH AN EXTENET SYSTEMS REPRESENTATIVE. ALL EQUIPMENT LAYOUT, SPECS, PERFORMANCE REQUIREMENTS, AND ALL EQUIPMENT SHALL BE APPROVED FOR CONFORMING HER/VER WORK WITH THE WORK AND INSTALLATIONS.

UNDERGROUND  
 SERVICE ALERT  
 UTILITIES PROTECTION CENTER, INC.  
 811  
 48 HOURS BEFORE YOU DIG

EXTENET SYSTEMS (CA) LLC  
 2000 CROW CANYON PLACE  
 SUITE 210  
 SAN RAMON, CA 94583

ADJACENT TO (IN PROW)  
 6519 ARTHUR STREET  
 OAKLAND, CA 94605

SHEET TITLE  
 TITLE SHEET


SHEET NUMBER  
 T-1

PRELIMINARY

BLACK & VEATCH  
 BLACK & VEATCH CORPORATION  
 2599 OAK ROAD  
 WALNUT CREEK, CA 94597

INTERNET SIGNATURE  
 CONSTRUCTION SIGNATURE  
 RE SIGNATURE  
 REAL SIGNATURE SIGNATURE

DATE  
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 DATE




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Connectivity  
Systems  
Everywhere

INTERNAL REVIEW

CONSTRUCTION SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

RF SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

LEGAL ESTATE SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



**BLACK & VEATCH**

BLACK & VEATCH CORPORATION  
2550 RAYBURN AVE  
SUITE 1400  
WALNUT CREEK, CA 94597

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PROJECT NO. 192417.6501

DRAWN BY \_\_\_\_\_ SAN \_\_\_\_\_ GAC \_\_\_\_\_

CHECKED BY \_\_\_\_\_

DATE \_\_\_\_\_

PRELIMINARY

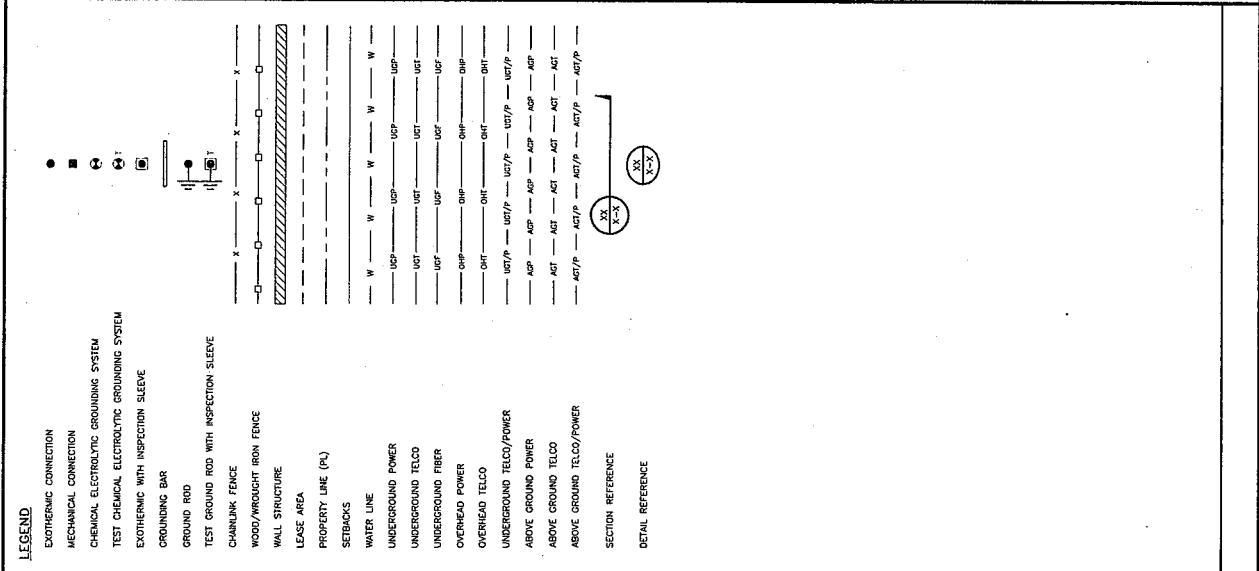
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

EXTENET SYSTEMS (CA) LLC  
2000 CROW CANYON PLACE  
SUITE 210  
SAN RAMON, CA 94583

SITE ADDRESS  
ADJACENT TO (IN PROW)  
6519 ARTHUR STREET  
OAKLAND, CA, 94605

SHEET TITLE  
GENERAL NOTES  
AND LEGEND

SHEET NUMBER  
**GN-1**



**TORQUE REQUIREMENTS**

- ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
  - RF CONNECTION BOTH SIDES OF THE CONNECTOR.
  - GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLD SURFACE. CHANGE OF SOLD SURFACE GROUND BAR, ANTENNA BRACKET METAL.
- ALL 8W ANTENNA HARDWARE SHALL BE TORQUED TO 9 LB-FT (12 NM).
- ALL 12W ANTENNA HARDWARE SHALL BE TORQUED TO 43 LB-FT (58 NM).
- ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- ALL 8W TYPE CONNECTIONS SHALL BE TORQUED TO 18-22 LB-FT (24.4 - 29.8 NM).
- ALL 12W TYPE CONNECTIONS SHALL BE TORQUED TO 15-20 LB-IN (1.7 - 2.3 NM).

**ROW UTILITY POLE CONSTRUCTION NOTES**

- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" (38MM).
- FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLAMBERS.
- ALL CLAMP STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- CABLE NOT TO MAKE 15' (4.5M) CLEAR SPACE OFF POLE FACE (1200).
- NO SHORT SWEEPERS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
- USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNA.
- USE 1/2" (12.7MM) CABLE ON ANTENNA UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

**NODE SITE POWER SHUT-DOWN PROCEDURES**

- FOR NON EMERGENCY/SCHEDULED POWER SHUT DOWN
  - CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)982-5327
  - 24 HOURS PRIOR TO SCHEDULED POWER SHUT OFF
  - PROVIDE THE FOLLOWING INFORMATION
    - NOC SITE NUMBER IDENTIFIED ON SITE NUMBERING STICKER
    - YOUR NAME AND REASON FOR POWER SHUTOFF
    - PROVIDE DURATION OF OUTAGE
  - UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
  - POWER SHUT OFF VERIFICATION WITH APPROVED POSE PROCEDURES
  - NOTIFY EXTENET NOC UPON COMPLETION OF WORK
  - REINSTALL LOCK ON DISCONNECT BOX
- EMERGENCY POWER SHUT OFF
  - CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)982-5327
  - PROVIDE THE FOLLOWING INFORMATION
    - NOC SITE NUMBER IDENTIFIED ON SITE NUMBERING STICKER
    - YOUR NAME AND REASON FOR POWER SHUTOFF
    - PROVIDE DURATION OF OUTAGE
  - UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
  - POWER SHUT OFF VERIFICATION WITH APPROVED POSE PROCEDURES
  - NOTIFY EXTENET NOC UPON COMPLETION OF WORK
  - REINSTALL LOCK ON DISCONNECT BOX

**GENERAL NOTES**

- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE START OF WORK.
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**DEFINITIONS**

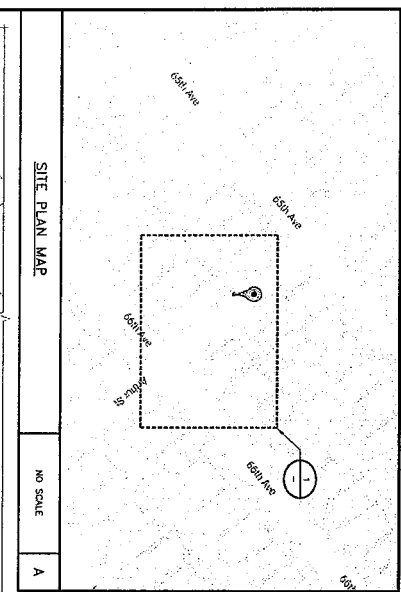
- "TYPICAL" OR "TYP." MEANS THAT THIS ITEM IS SUBSTANTIALLY THE SAME ACROSS SIMILAR CONDITIONS. "TYP." EXCEPTION OR "TYP." EXCEPTION SHALL BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS.
- "SIMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
- "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE, OR BY THE CONTRACT DOCUMENTS.
- "ALU" MEANS ALUMINUM LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
- THE TERM "FIELD" OR "FIELD" SHALL BE UNDERSTOOD TO MEAN "FIELD" IN FIELD WITH ENGINEER AND CONTRACTOR CONFORM WITH INTENT REGARDING FIELD CONDITION AND PROCEED ONLY AFTER RECEIVING DIRECTION.
- WHERE THE WORDS "OR EQUAL" OR WORDS OF SIMILAR INTENT FOLLOW A MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SIGNED APPROVAL OF ANY DEVIATION TO SAID SPECIFICATION PRIOR TO COMMENCEMENT OF WORK.
- FURNISH SUPPLY ONLY, OTHERS TO INSTALL. INSTALL INSTALL ITEMS FURNISHED BY OTHERS. PROVIDE FURNISH AND INSTALL.

**FIELD WELDING NOTES:**

- WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS FOR THE TYPE OF AND POSITION INDICATED. ALL WORK MUST BE IN CONFORMANCE WITH LATEST EDITION OF AWS D1.1.
- GROUND SURFACES TO BE WELDED WITH A SILICON CARBIDE WHEEL PRIOR TO WELDING TO REMOVE ALL OXIDE AND SCALE. WHEELS MUST BE CHANGED IN THE WELD METAL. APPLY ANTI-SPATTER COMPOUND AFTER GRINDING.
- WELDING TECHNIQUE MUST MINIMIZE TEMPERATURE USE ON THE INSIDE SURFACE OF THE POLE AND ALSO MINIMIZE AIR REMOVAL FROM THE JOINT. WELDING SHALL BE PERFORMED WITH AN ANTI-SPATTER COMPOUND. STRICTLY FOLLOW ALL MANUFACTURER'S INSTRUCTIONS FOR STORAGE AND USE OF ELECTRODES. AVOID REMOVING ELECTRODES FROM MANUFACTURER'S PACKAGING UNTIL READY FOR IMMEDIATE USE.
- WELDING MAY PRODUCE TOXIC FUMES. REFER TO ANSI STANDARD Z49.1 "SAFETY IN WELDING AND CUTTING" FOR FURTHER INFORMATION.
- UPON COMPLETION OF WELDING, APPLY GALVA-STEEL ZINC GALVANIZING TO ALL UNWELDED SURFACES. APPLY A SECOND LAYER OF ZINC GALVANIZING SPRAY COMPOUND CONTAINING A MINIMUM ZINC CONTENT OF 82% IF NECESSARY. APPLY A FINAL COAT OF COMPATIBLE PAINT TO MATCH SURROUNDING SURFACES.

**ANTENNA MOUNTING**

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153 ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS, UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE, UNLESS NOTED OTHERWISE.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A790.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS. DOUBLE NUTS AND SHALL BE TORQUED TO CONFORMANCE WITH REGULATORY REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- PRIOR TO SETTING ANTENNA ADMIRALS AND DOWNLITS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND INSURE THAT THEY ARE PLUMB. ANTENNA ADMIRALS SHALL BE SET FROM TRUE NORTH. ANTENNA ADMIRALS SHALL BE SET AS DEFINED BY THE NBS. ANTENNA DOWNLITS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE NBS.



SITE PLAN MAP

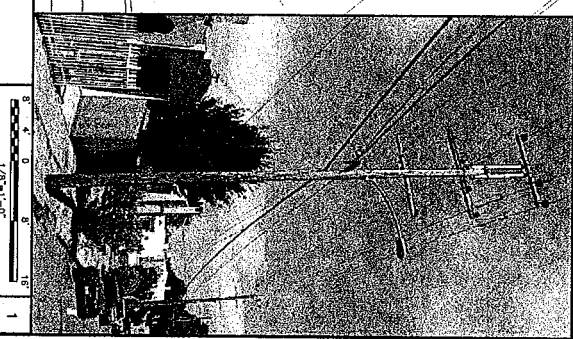
NO SCALE  
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OVERALL SITE PLAN

THIS DRAWING IS NOT A SITE SURVEY. THE PURPOSE OF THIS DRAWING IS TO RELATE THE PROJECT TO ADJACENT PROPERTIES, A.O.W. MEASUREMENTS ARE APPROXIMATIONS.

APN# 39-3267-22



Scale: 1/8" = 1'-0"

**extenet**  
Systems  
CONNECTIVITY  
SYSTEMS

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	DATE
RF SIGNATURE	DATE
REAL ESTATE SIGNATURE	DATE

**BLACK & VEATCH**  
BLACK & VEATCH CORPORATION  
2999 DAWN ROAD  
WALNUT CREEK, CA 94597

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PROJECT NO.	DRAWN BY	CHECKED BY
192417.6001	SAW	QAC

DATE	ISSUED FOR REVIEW
02/25/12	ISSUED FOR REVIEW
DATE	DESCRIPTION

**PRELIMINARY**

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**EXTENET SYSTEMS (CA) LLC**  
2000 CROW CANYON PLACE  
SUITE 210  
SAN RAMON, CA 94583

SITE ADDRESS  
**ADJACENT TO (IN PROX)**  
6319 ARTHUR STREET  
OAKLAND, CA 94605

SHEET TITLE  
**OVERALL SITE PLAN**

SHEET NUMBER  
**C-1**

**extenet** connectivity Everywhere  
SYSTEMS

INTERNAL REVIEW

CONSTRUCTION SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

RF SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

REAL ESTATE SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**BLACK & VEATCH**

BLACK & VEATCH CORPORATION  
2959 OAK ROAD  
WALNUT CREEK, CA 94597

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PROJECT NO.	DRAWN BY	CHECKED BY
192417.0501	SAN	GAC

**PRELIMINARY**

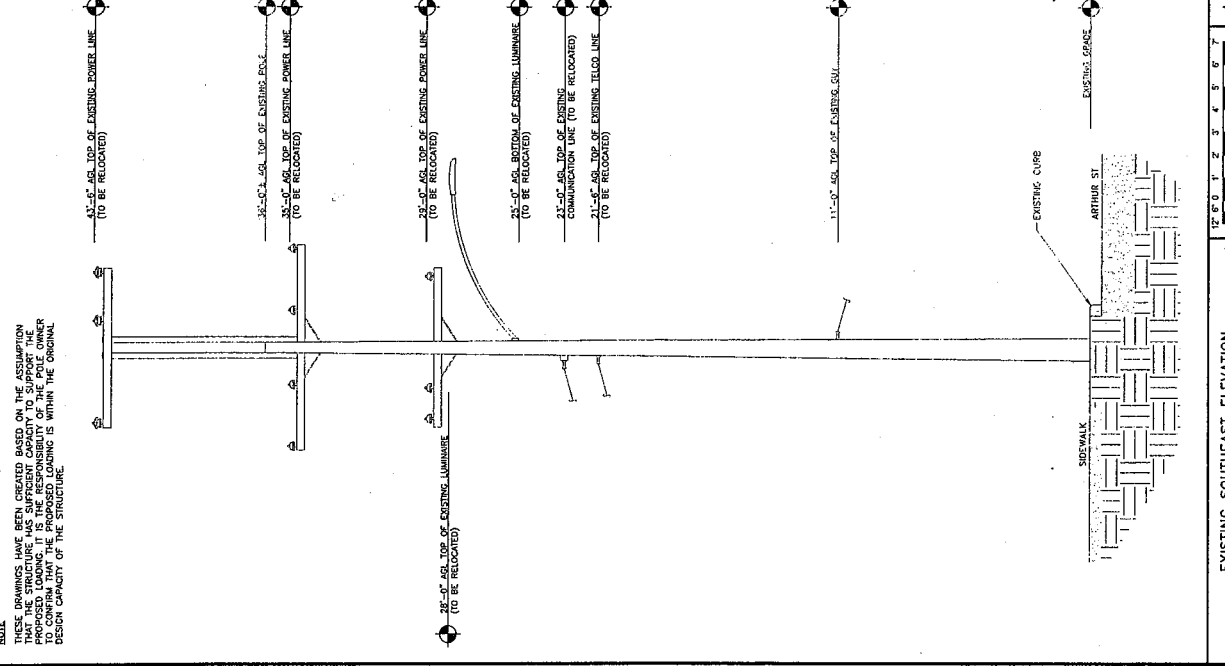
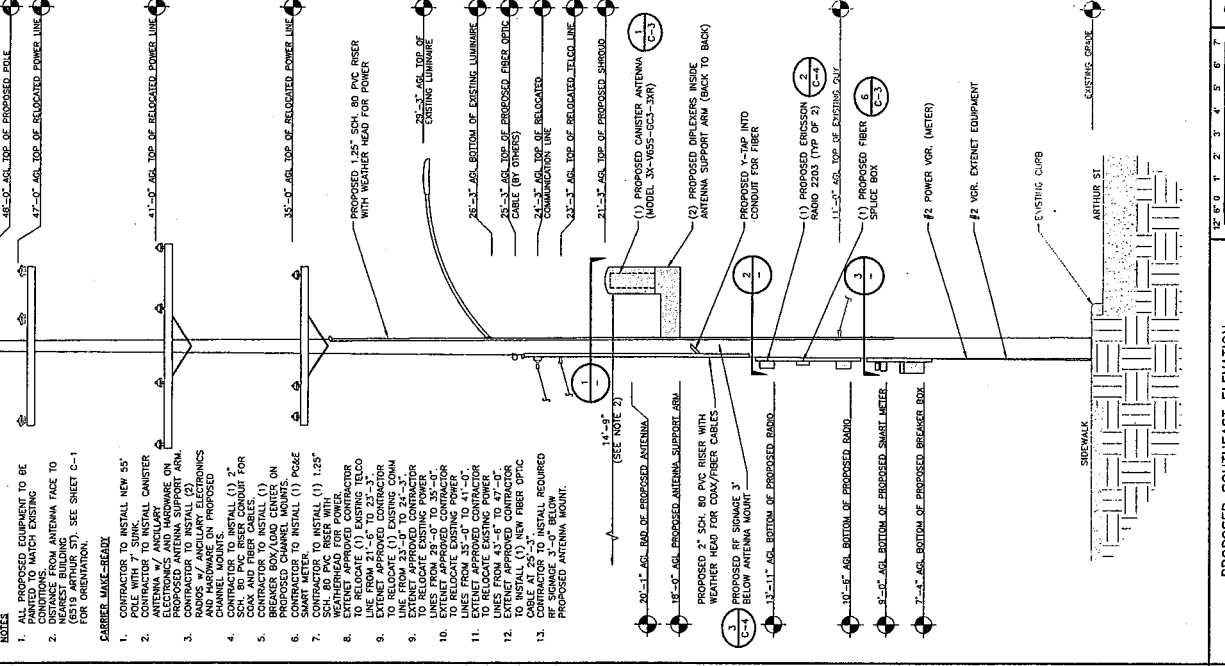
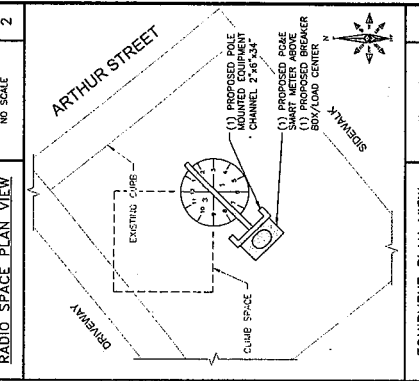
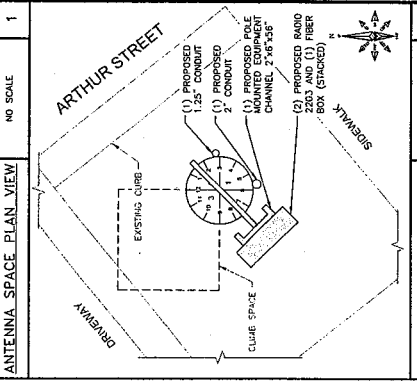
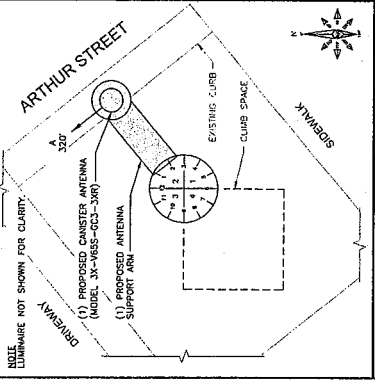
PLEASE AVOID USE OF LOT FOR ANY PERSON, FIRM OR COMPANY WITHOUT THE WRITTEN CONSENT OF A LICENSED PROFESSIONAL ENGINEER TO BE OBTAINED FROM THE ENGINEER.

**EXTENET SYSTEMS (CA) LLC**  
2000 CROW CANYON PLACE  
SUITE 210  
SAN RAMON, CA 94583

SITE ADDRESS  
**ADJACENT TO (IN PROW)**  
6519 ARTHUR STREET  
OAKLAND, CA 94605

SHEET TITLE  
**UTILITY POLE ELEVATIONS  
AND RISER DETAILS**

SHEET NUMBER  
**C-2**



- NOTES**
- PROPOSED CONTRACTOR TO BE PAINTED TO MATCH EXISTING CONDITIONS FROM ANCHOR FACE TO NEAREST BUILDING (6519 ARTHUR ST.) SEE SHEET C-1 FOR ORIENTATION.
  - CARRIER JAMES-HEAD**
  - CONTRACTOR TO INSTALL NEW 55' ANTENNA W/ ANCHURY PROPOSED ANTENNA SUPPORT ARM.
  - CONTRACTOR TO INSTALL (2) PROPOSED ANTENNA SUPPORT ARMS AND MOUNTS ON PROPOSED CHANNEL MOUNTS.
  - CONTRACTOR TO INSTALL (1) 1.25\"/>

- NOTE**
- THESE DRAWINGS HAVE BEEN CREATED BASED ON THE ASSUMPTION THAT THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE WEIGHT OF THE EQUIPMENT. THE POLE OWNER IS RESPONSIBLE TO CONFIRM THAT THE PROPOSED LOADS IS WITHIN THE ORIGINAL DESIGN CAPACITY OF THE STRUCTURE.

EXISTING SOUTHEAST ELEVATION

PROPOSED SOUTHEAST ELEVATION

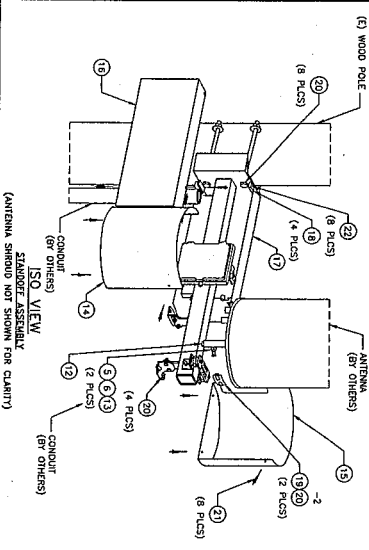
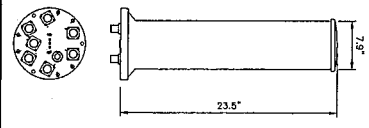
12' 0" 1' 2' 3' 4' 5' 6' 7' 30" = 10'

12' 0" 1' 2' 3' 4' 5' 6' 7' 30" = 10'



**COMMSCOPE 3X-V655-003-3XR**

RODINE COLOR: LIGHT GREY  
 RODINE MATERIAL: FIBERGLASS, UV RESISTANT  
 DIAMETER: 7.9" (200mm)  
 HEIGHT: 23.5" (596mm)  
 TOTAL WEIGHT (WITHOUT BRACKETS): 7.2 kg (15.9 LB)  
 CONNECTOR INTERFACE: 4.1-5.9 DIN FEMALE  
 RF CONNECTOR LOCATION: BOTTOM  
 RF CONNECTOR QUANTITY: 6

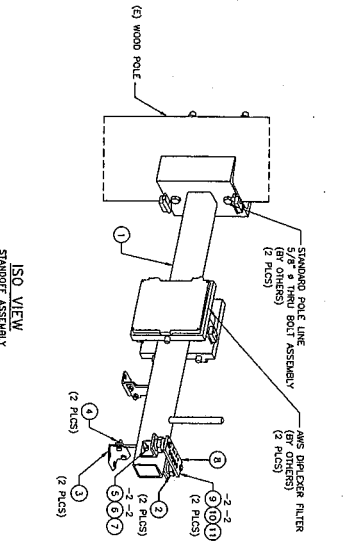
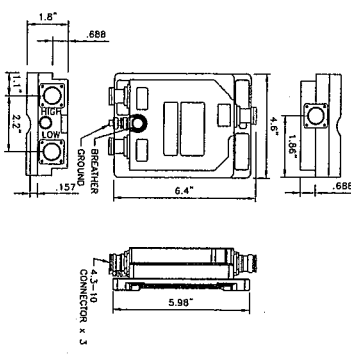


**PROPOSED ANTENNA**

NO SCALE

**SIDE ARM ANTENNA MOUNT**  
2'-0" STANDOFF FOR WOOD POLE

NO SCALE

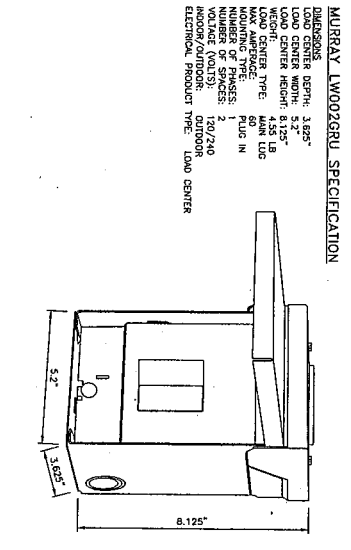
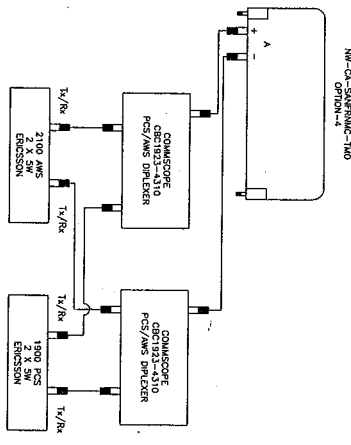


**COMMSCOPE CBC 1923-4310 / E11F13P20**

NO SCALE

**SIDE ARM ANTENNA MOUNT**  
2'-0" STANDOFF FOR WOOD POLE

NO SCALE



**ANTENNA CONFIGURATION**

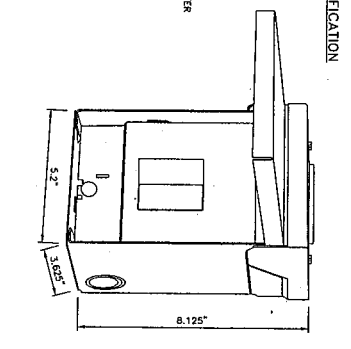
NO SCALE

**MURRAY LM002GRU**

NO SCALE

**MURRAY LM002GRU SPECIFICATION**

DIMENSIONS:  
 LOAD CENTER DEPTH: 3.825"  
 LOAD CENTER WIDTH: 3.52"  
 LOAD CENTER HEIGHT: 4.55"  
 WEIGHT: 4.55 LB  
 LOAD CENTER TYPE: MAIN LUG  
 MOUNTING TYPE: MAIN LUG  
 NUMBER OF PHASES: 1  
 NUMBER OF WINDINGS: 2  
 VOLTAGE (VOLTS): 120/240  
 MOTOR/OUTDOOR: OUTDOOR  
 ELECTRICAL PRODUCT TYPE: LOAD CENTER



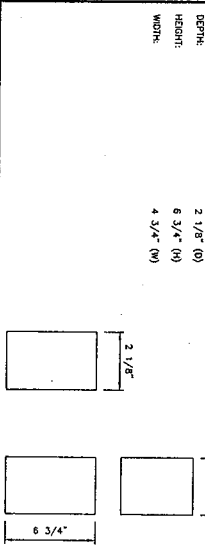
**ANTENNA SHROUD PARTS TABLE**

ITEM #	PART #	DESCRIPTION	QTY	UNIT WT. (LBS)
1	WA-714	STANDOFF AND ASS'Y PARTS/HOME	1	4.3
2	SS-514	3/8"x3/8"x1/4" SS 304 ANGLE	2	0.5
3	SS-516	2"x2"x1/4" SS ANGLE	2	0.4
4	13230	3/8"x1/2" FULLY THRD BOL./NUT/WS CALV.	4	0.1
5	41010	3/8"x1/2" HEX NUT, CALV.	2	0.01
6	51000	3/8"x1/2" HEX NUT, CALV.	2	0.01
7	80236	3/8"x1/2" HEX NUT, CALV.	2	0.19
8	PL-719	BUS BAR ASS'Y PARTS / HOME	1	0.8
9	42010	3/8" LOCK WASHER, BUS BAR	4	0.01
10	71017	3/8"x3/8" FULLY THRD SS BOL	4	0.04
11	90080	3/8" STANDOFF INSULATOR (SS/HD)	2	0.1
12	WA-888	3/8"x1/2" 0.5" ASL TOP CAP MOUNT	1	2.2
13	18206F	3/8"x1/2" AS37 FULLY THRD SS BOL, CALV.	2	0.1
14	41010	3/8" LOCK WASHER, CALV.	2	0.01
15	51000	3/8" AS37 HEX NUT, CALV.	2	0.02
16	WA-715	1/4"x1/4" 1/16"x1/4" 5/16" 10. E.C. FORMED PLATE W/HAIR	1	6
17	PL-1254	1/4"x1/4" 1/16"x1/4" 5/16" 10. E.C. FORMED PLATE W/HAIR	1	9.9
18	PL-1257	1/4"x1/4" 1/16"x1/4" 5/16" 10. E.C. FORMED COVER	1	1
19	PL-1581	1/2"x1/2" 1/8" ASL PLATE	4	0.3
20	14209-4	1/4"x1/4" 1/16"x1/4" 5/16" 10. E.C. FORMED PLATE	2	0.1
21	53500	1/4"-20 UN-200 SPEED NUT BLACK PHOSPHATE	18	0.02
22	70217	1/4"x1/4" SS 304 BUSHING-0 SCRT CAP SCRW	18	0.03
		1/4"x1/4" 1/8" SS FIBER BOTTOM-10 SCRT CAP SCRW	18	0.03

TOTAL CALV. WT. = 88lbs

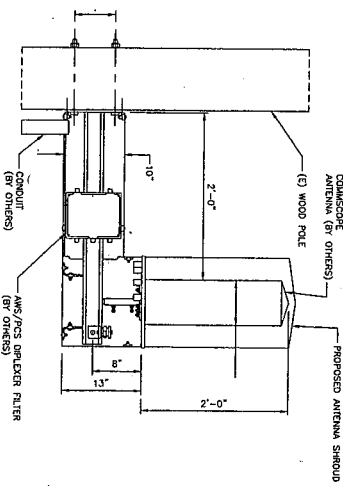
**E1-4868--FSS FUSION SPICE ENCLOSURE**

NO SCALE



**FIBER SPICE BOX**

NO SCALE



**SIDE ARM ANTENNA MOUNT**  
2'-0" STANDOFF FOR WOOD POLE

NO SCALE

**extenet**  
 Connecting  
 Systems  
 Everywhere

CONSTRUCTION SIGNATURE: DATE  
 RF SIGNATURE: DATE  
 REAL STATE SIGNATURE: DATE

**BLACK & VEATCH**  
 BLACK & VEATCH CORPORATION  
 2999 DAK ROAD  
 WAKULU CREEK, CA 94597

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PROJECT NO. DRAWN BY: CHECKED BY:  
 192417-45011 SNN DAC

DATE FOR REVIEW: 09/29/16  
 DATE FOR ISSUE: 09/29/16  
 DATE FOR DESCRIPTION: 09/29/16

**PRELIMINARY**

IF IT IS A VIOLATION OF LAW FOR ANY REASON, THE USER OF THESE DRAWINGS SHALL INDEMNIFY AND HOLD HARMLESS THE DESIGNER.

**EXTENET SYSTEMS (CA) LLC**  
 2000 CROW CANYON PLACE  
 SUITE 210  
 SAN RAMON, CA 94585

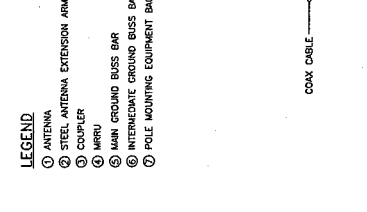
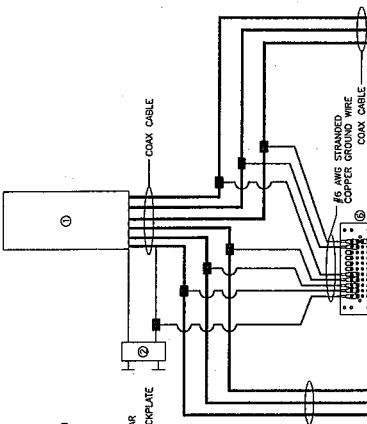
SITE ADDRESS:  
 ADJACENT TO (IN PROX)  
 6519 ARTHUR STREET  
 OAKLAND, CA 94605

SHEET TITLE:  
**EQUIPMENT DETAILS**

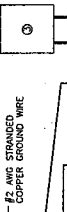
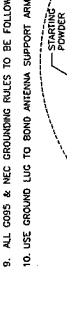
SHEET NUMBER:  
**C-3**

GENERAL GROUNDING NOTES

- #6 GREEN COATED WIRE TO BE USED.
- WELD CONNECTIONS: THE TWO HOLE BOLTED TORQUE CONNECTORS (COMMERCIAL) SHALL BE TYPED TO THE CODE. WELD CONNECTIONS SHALL BE TIN PLATED, LONG BARREL LUG CONNECTORS SHALL BE TIN PLATED, LONG BARREL LUG.
- GROUND WIRES SHALL BE INSERTED THE ENTIRE LENGTH OF THE LUG. PROVIDE ANTI-OXIDANT COMPOUND ON THE CONDUCTOR BEFORE CRAMPING. TUBING ALONG ENTIRE LENGTH OF CRAMP.
- GROUND CONDUCTORS RUN ALONG POLE SURFACE SHALL BE COVERED BY 3/8" HARD WOOD OR DOUGLAS FIR WOOD HOLDING CORROSION RESISTANT (GALVANIZED) STALE AT 2' INTERVALS TO BE USED FOR VDR. PROVIDE ANTI-OXIDANT COMPOUND ON THE CONDUCTOR BEFORE CRAMPING. ALL ELECTRICAL CONNECTIONS SHALL BE CONDUIT OR WELDED. SUITABLE ELECTRICAL CONNECTIONS ARE USED.
- BOND WIRES AND GROUND WIRES SHALL HAVE A CLEARANCE OF NOT LESS THAN 1 1/2" INCHES FROM METAL PINS, BOLTS, AND OTHER HARDWARE. IN BEING SO CONNECTION DOES NOT VIOLATE OTHER RULES OF CODES, IN WHICH CASE SUITABLE ELECTRICAL CONTACT SHALL BE MADE.
- GP TO BE ADAPTED DIRECTLY TO POLE W/ANTENNA SUPPORT ARM. GPB TO BE ADAPTED DIRECTLY TO POLE W/ANTENNA SUPPORT ARM TO BACKLASH.
- GROUND BISS BAR LENGTH TO VARY BASED ON NUMBER OF GROUND WIRE.
- USE 1/2" BISS BAR. CABLE BOUNDING WIRE ON BISS BAR. CONTRACTOR SHALL ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- ALL CODES & NEC GROUNDING RULES TO BE FOLLOWED AT ALL TIMES.
- USE GROUND LUG TO BOND ANTENNA SUPPORT ARM TO GCB.



CA-84C WITH 4.1-9.5 DIN CONNECTORS



CONCEPTUAL WOOD POLE GROUNDING DETAIL

ERICSSON RADIO 2203

LENGTH: 7.8" (200MM)  
 WIDTH: 7.8" (200MM)  
 DEPTH: 3.93" (100MM)  
 TOTAL WEIGHT (WITHOUT BRACKET): <4.5 Kg

LEGEND

- ANTENNA
- STEEL ANTENNA EXTENSION ARM
- COUPLER
- MOUNT
- INTERMEDIATE GROUND BISS BAR
- POLE MOUNTING EQUIPMENT BACKPLATE

LEGEND

- ANTENNA
- STEEL ANTENNA EXTENSION ARM
- COUPLER
- MOUNT
- INTERMEDIATE GROUND BISS BAR
- POLE MOUNTING EQUIPMENT BACKPLATE
- COAX CABLE
- #6 AWG STRANDED COPPER GROUND WIRE
- #6 AWG STRANDED COPPER GROUND WIRE
- CUSTOMER POWER DISCONNECT BOX
- #2 AWG COPPER GROUND WIRE
- FINISHED GRADE
- 1 WAY CADWELD THERMOWELD CONNECTION
- 1/4" X 1/4" X 1/2" COPPER-CLAD GROUND ROD 60" FROM POLE & 12" BELOW GRADE
- 2 WAY CADWELD THERMOWELD CONNECTION
- 1/4" X 1/4" X 1/2" COPPER-CLAD GROUND ROD 60" FROM POLE & 12" BELOW GRADE
- 12" BELOW GRADE

extenet SYSTEMS

INTERNAL REVIEW

CONSTRUCTION SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

RF SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

LEGAL ESTATE SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**BLACK & VEATCH**

BLACK & VEATCH CORPORATION  
2959 OAK ROAD  
WALNUT CREEK, CA 94597

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PROJECT NO. DRAWN BY CHECKED BY  
192417.45D1 SAN GAC

REV 1 10/29/14 REVISED FOR WORK  
REV 2 10/29/14 REVISED FOR WORK

**PRELIMINARY**

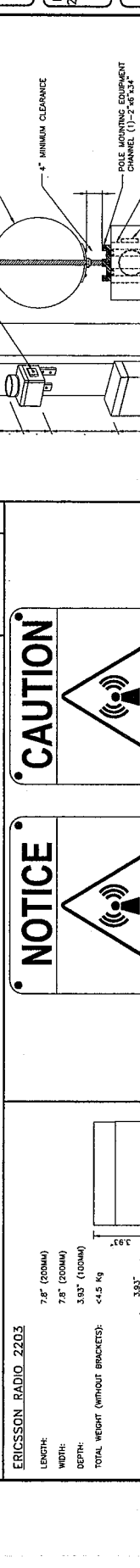
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**EXTENET SYSTEMS (CA) LLC**  
2000 CROW CANYON PLACE  
SUITE 210  
SAN RAMON, CA 94583

SITE ADDRESS  
ADJACENT TO (IN FRONT)  
6519 ARTHUR STREET  
OAKLAND, CA 94605

SHEET TITLE  
EQUIPMENT DETAILS

SHEET NUMBER  
**C-4**



SMART METER/BREAKER BOX DETAIL

NO SCALE

NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

RF SIGNAGE DETAIL

NO SCALE

NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

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RF SIGNAGE DETAIL

NO SCALE

NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

RF SIGNAGE DETAIL

NO SCALE

NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.

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RF SIGNAGE DETAIL

NO SCALE

NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

BEYOND THIS POINT YOU ARE ENTERING A CONTROLLED AREA WHERE RF EMISSIONS MAY EXCEED THE FCC OCCUPATIONAL EXPOSURE LIMITS. FOLLOW ALL POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN A RF ENVIRONMENT.



# Attachment A







Existing



proposed antenna

Proposed





**Existing**



proposed antenna

**Proposed**



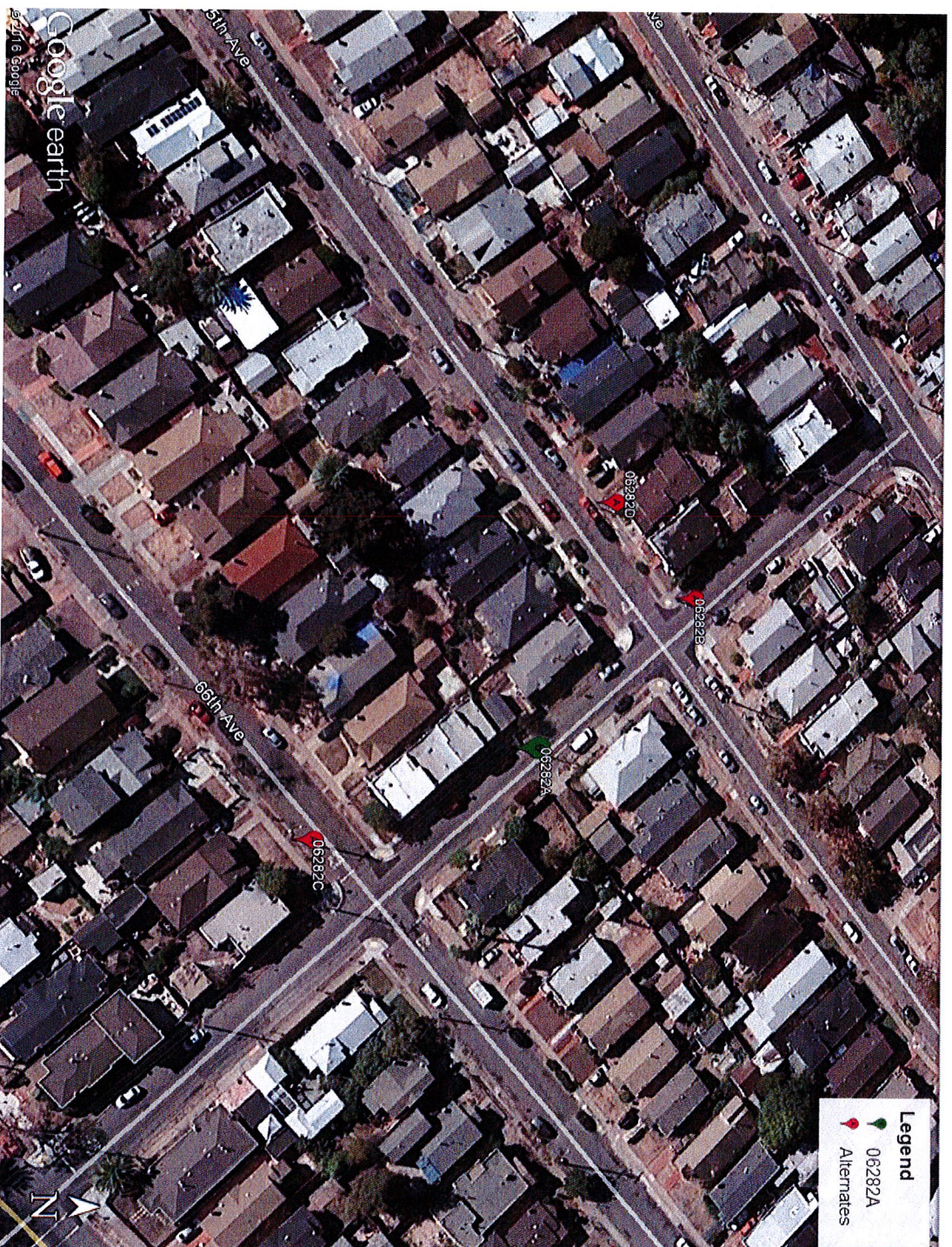


**Attachment B**

**EXTENET OAKLAND  
NODE 06282A  
ALTERNATIVE SITE ANALYSIS**



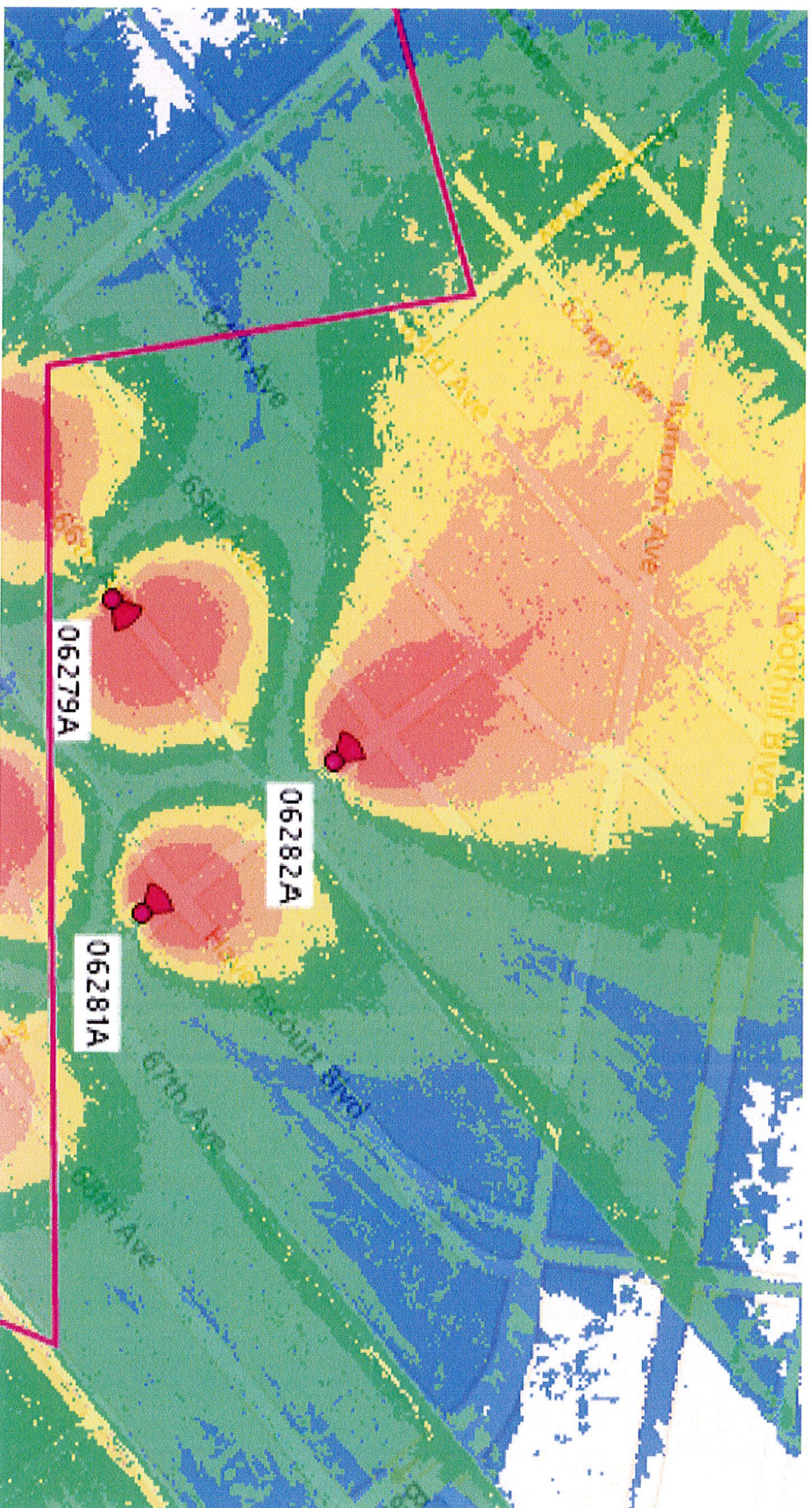
# MAP OF ALTERNATIVE POLES EVALUATED



- The above maps depict ExteneNet's proposed Node 06282A in relation to other poles in the area that were evaluated as possibly being viable alternative candidates.
- The following is an analysis of each of those 3 alternative locations.



# PROPAGATION MAP OF NODES 062822A



This propagation map depicts the ExtNet proposed Node 06282A in relation to surrounding proposed ExtNet small cell nodes.



## 06282A - PROPOSED LOCATION



- The location for ExteNet's proposed Node 06282A is a joint utility pole located adjacent to PROW 6519 Arthur Street (37.768500, - 122.185340).
- ExteNet's objective is to provide T-Mobile 4G wireless coverage and capacity to the Oakland area.
- ExteNet evaluated this site and nearby alternatives to verify that the selected site is the least intrusive means to close T-Mobile's significant service coverage gap.



## ALTERNATIVE NODE 06282B



- Node 06282B is a joint utility pole located in front of 6425 Arthur Street (37.768821, - 122.185673).
- This pole is not a viable alternative candidate because cross lines and cross arms prevent adequate climbing space on the pole pursuant to CPUC General Order 95, thus prohibiting a wireless facility from being installed at this location.
- This pole is not a viable alternative because the minimum antenna height needed at this pole would violate CPUC General Order-94 Regulation safety clearances. This configuration does not allow ExtNet the proper 2' of separation from the communication lines.
- This pole is not a viable alternative candidate because this pole is located too far from the primary Node 06281A.



## ALTERNATIVE NODE 06282C



- Node 06282C is a joint utility pole located at 2550 65<sup>th</sup> Avenue, (37.768116, - 122.185162)
- This pole is not a viable alternative candidate because cross lines and a cross arm prevent adequate climbing space on the pole pursuant to CPUC General Order 95, thus prohibiting a wireless facility from being installed at this location.
- This pole is not a viable alternative candidate because the existing transformer on the pole would need to be relocated to an uncertain destination in order to facilitate our proposed wireless installation.
- This pole is not a viable alternative because the minimum antenna height needed at this pole would violate CPUC General Order-94 Regulation safety clearances. This configuration does not allow ExtNet the proper 2' of separation from the communication lines.
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06281A.



## ALTERNATIVE NODE 06282D



- Node 06282D is a joint utility pole located across from 2543 66th Avenue (37.768661, -122.185886).
- This pole is not a viable alternative candidate because cross lines and cross arms prevent adequate climbing space on the pole pursuant to CPUC General Order 95, thus prohibiting a wireless facility from being installed at this location.
- This pole is not a viable alternative because the minimum antenna height needed at this pole would violate CPUC General Order-94 Regulation safety clearances. This configuration does not allow ExtenNet the proper 2' of separation from the communication lines.
- This pole is not a viable alternative candidate because this pole is located too far from the primary Node 06281A.



## **ALTERNATIVE SITE ANALYSIS CONCLUSION**

**Based on ExteneNet's analysis of alternative sites, the currently proposed Node 06282A is the least intrusive location from which to fill the surrounding significant wireless coverage gaps.**



**extenet**  
SM  
SYSTEMS

**Thank You!**





**October 20, 2016**

City Planner  
Planning Department  
City of Oakland  
250 Frank Ogawa Plaza, 2<sup>nd</sup> Floor  
Oakland, CA 94612

**Re: Proposed ExteNet Small Cell Node Installation**  
**Applicant: ExteNet Systems (California) LLC**  
**Nearest Site Address: Public Right of Way near 6519 Arthur Street**  
**Site ID: NW-CA-SANFRANMC Node 06282A**  
**Latitude/Longitude: 37.768500, -122.185340**

Dear City Planner,

On behalf of ExteNet Systems (California) LLC, this letter and attached materials are to apply for a design review permit to install a small cell node in the public right-of-way near 6519 Arthur Street (“Node 06282A”).<sup>1</sup> The following is an explanation of the existing site, a project description of the designed facility, the project purpose and justifications in support of this proposal.

**A. Project Description.**

The proposed location for our facility currently consists of an approximate 36 foot tall wood utility pole in the public right-of-way on the west side of Arthur Street just southeast of the intersection with 65th Avenue, at about 6519 Arthur Street. Power lines are on the pole at about 29 feet, 35 feet and 43 feet above ground.

ExteneNet proposes to swap the pole for a new pole measuring 48 feet above ground and to affix one canister antenna within an antenna shroud on a proposed antenna support. The antenna, measuring 23.5 inches long and 7.9 inches in diameter will be placed on an antenna support arm attached at 18 feet. Two proposed diplexers measuring 6.4 inches long, 4.6 inches wide and 1.8 inches deep will be placed within the side arm antenna mount. Two MRRUs measuring 7.9 inches tall, 7.9 inches wide and 3.9 inches deep will be placed on the pole at 10 feet 6 inches and 13 feet 11 inches. A miniature emergency shut-off safety switch and electricity meter will be placed on the pole at about eight feet above ground. All equipment will be painted brown to match the utility pole. Our proposal is depicted in the attached design drawings and photographic simulations.

This is an unmanned facility that will operate at all times (24 hours per day, seven days per week) and will be serviced about once per year. Our proposal will greatly benefit the area by improving wireless telecommunications service as detailed below.

**B. Project Purpose.**

---

<sup>1</sup> ExteneNet expressly reserves all rights concerning the city’s jurisdiction to assert zoning regulation over the placement of wireless facilities in the public rights-of-way.

The purpose of this project is to provide T-Mobile third and fourth generation (3G and 4G) wireless voice and data coverage to the surrounding area where there is currently a significant gap in service coverage. These wireless services include mobile telephone, wireless broadband, emergency 911, data transfers, electronic mail, Internet, web browsing, wireless applications, wireless mapping and video streaming. The proposed node is part of a larger small cell providing coverage to areas of Oakland that are otherwise very difficult or impossible to cover using traditional macro wireless telecommunications facilities due to the local topography and mature vegetation. The attached radio frequency propagation maps depict T-Mobile's larger small cell project. Further radio frequency details are set forth in the attached Radio Frequency Statement, including propagation maps depicting existing and proposed coverage in the vicinity of Node 06282A.

A small cell network consists of a series of radio access nodes connected to small telecommunications antennas, typically mounted on existing wooden utility poles within the public rights-of-way, to distribute wireless telecommunications signals. Small cell networks provide telecommunications transmission infrastructure for use by wireless services providers. These facilities allow service providers such as T-Mobile to establish or expand their network coverage and capacity. The nodes are linked by fiber optic cable that carry the signal stemming from a central equipment hub to a node antenna. Although the signal propagated from a node antenna spans over a shorter range than a conventional tower system, small cell can be an effective tool to close service coverage gaps.

### **C. Project Justification, Alternative Site and Design Analysis.**

Node 06282A is an integral part of the overall small cell project, and it is located in a difficult coverage area near 66th Avenue. The coverage area consists of a primarily residential neighborhood off of Arthur Street, 65th Avenue, 66th Avenue, and surrounding areas. Node 06282A will cover transient traffic along the roadways and provide in-building service to the surrounding residences as depicted in the propagation maps, which are exhibits to the attached Radio Frequency Statement.

Based on ExteNet's analysis of alternative sites the currently proposed Node 06282A is the least intrusive means to close T-Mobile's significant service coverage gap in the area. Node 06282A best uses existing utility infrastructure, adding small equipment without disturbing the character of the neighborhoods served. Deploying a small cell node at an existing pole location minimizes any visual impact by utilizing an inconspicuous spot. By installing antennas and equipment at this existing pole location, T-Mobile does not need to propose any new infrastructure in this coverage area.

The small cell node RF emissions are also much lower than the typical macro site, they are appropriate for the area, and they are fully compliant with the FCC's requirements for limiting human exposure to radio frequency energy. The attached radio frequency engineering analysis provided by Hammett & Edison, Inc., Consulting Engineers, confirms that the proposed equipment will operate well within (and actually far below) all applicable FCC public exposure limits. The facility will also comply with California Public Utility Commission (CPUC) General Orders 95 (concerning overhead line design, construction and maintenance) and 170 (CEQA review) that govern utility use in the public right-of-way.

This proposed redesign is a viable design developed according to our discussions with the Planning Department. As discussed with City Planning, Node 06282A is the least intrusive option. Also the proposed location is a good coverage option because it sits at a spot from which point T-Mobile can adequately propagate its wireless signal.

ExteNet considered alternative sites on other utility poles in this area but none of these sites is as desirable from construction, coverage or aesthetics perspectives. The proposed location is approximately equidistant from other small cell nodes that ExteNet plans to place in surrounding hard-to-reach areas, so that service coverage can be evenly distributed. The proposed facility is not in the path of any protected view sheds. The other utility poles in the area are more conspicuous than the proposed pole. In addition to the utility pole proposed to host Node 06282A, ExteNet considered alternative sites set forth in the attached Alternative Site Analysis.



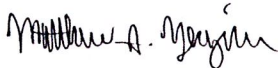
Alternative designs were considered including placing equipment inside of a ground-mounted cabinet. However, the pole-mounted equipment would better suit the area because it would blend in with the pole. We also evaluated whether equipment could be undergrounded but unfortunately this is not possible because there is insufficient right-of-way space for the necessary equipment access and the equipment would be compromised from saturation by rainwater. The antennas cannot be undergrounded because they rely on a line-of-site in order to properly transmit a signal.

Drawings, propagation maps, photographic simulations, and a radio-frequency engineering analysis are included with this packet.

As this application seeks authority to install a wireless telecommunication facility, the FCC's Shot Clock Order<sup>2</sup> requires the city to issue its final decision on ExteNet's application within 150 days. We respectfully request expedited review and approval of this application. Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,  
EXTENET SYSTEMS



*Matthew S. Yergovich*

---

<sup>2</sup> See Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B), WT Docket No. 08-165, Declaratory Ruling, 24 F.C.C.R. 13994 (2009).



November 18, 2016

City Planner  
Planning Department  
City of Oakland  
250 Frank H. Ogawa Plaza, 2<sup>nd</sup> Floor  
Oakland, CA 94612

**Re: GO 95 Required Two Feet Clearance Between Antenna and Pole**  
**Applicant: ExteNet Systems (California) LLC**  
**Nearest Site Address: Public Right of Way near 6519 Arthur Street**  
**Site ID: NW-CA-SANFRNMC-TMO Node 06282A**  
**Latitude/Longitude: 37.768500, -122.18534**

Dear City Planner,

This letter is in response to discussions with City of Oakland Planning Department seeking clarification on the proposed antenna placement on the utility pole.

Wireless facility attachments to utility poles must comply with CPUC General Order 95 design, safety and clearance standards. Specifically, Rule 94.4(B) states: *Antennas shall maintain a 2 ft horizontal clearance from centerline of pole when affixed between supply and communication lines or below communication lines.* This rule precludes ExteNet from placing the antennas flush mounted to the utility pole when there is a power source attached to the pole. ExteNet minimized the clearance as much as possible by placing the antenna shroud just over two feet from the centerline of the utility pole.

Feel free to contact me if you have any questions. Thank you.

Best Regards,

A handwritten signature in black ink that reads "Ana Gomez / BV for ExteNet".

Ana Gomez  
ExteNet Permitting Contractor

**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06282A)  
6519 Arthur Street • Oakland, California**

**Statement of Hammett & Edison, Inc., Consulting Engineers**

Attachment C

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of ExteNet Systems CA, LLC, a wireless telecommunications facilities provider, to evaluate the addition of Node No. 06282A to be added to the ExteNet distributed antenna system (“DAS”) in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

**Executive Summary**

ExteNet proposes to install a directional panel antenna on a utility pole sited in the public right-of-way at 6519 Arthur Street in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

**Prevailing Exposure Standards**

The U.S. Congress requires that the Federal Communications Commission (“FCC”) evaluate its actions for possible significant impact on the environment. A summary of the FCC’s exposure limits is shown in Figure 1. 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. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000–80,000 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
BRS (Broadband Radio)	2,600	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

Power line frequencies (60 Hz) are well below the applicable range of these standards, and there is considered to be no compounding effect from simultaneous exposure to power line and radio frequency fields.

**General Facility Requirements**

Base stations typically consist of two distinct parts: the electronic transceivers (also called “radios” or “channels”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The transceivers are often located at ground level and are connected to the antennas by coaxial cables.

**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06282A)  
6519 Arthur Street • Oakland, California**

A small antenna for reception of GPS signals is also required, mounted with a clear view of the sky. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

### **Computer Modeling Method**

The FCC provides direction for determining compliance in its Office of Engineering and Technology Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation," dated August 1997. Figure 2 attached describes the calculation methodologies, reflecting the facts that a directional antenna's radiation pattern is not fully formed at locations very close by (the "near-field" effect) and that at greater distances the power level from an energy source decreases with the square of the distance from it (the "inverse square law"). The conservative nature of this method for evaluating exposure conditions has been verified by numerous field tests.

### **Site and Facility Description**

Based upon information provided by ExteNet, including drawings by Black & Veatch Corporation, dated September 29, 2016, it is proposed to install one CommScope Model 3X-V65S-GC3-3XR, 2-foot tall, tri-directional cylindrical antenna, with one direction activated, on a cross-arm to be added to a utility pole sited in the public right-of-way in front of the residence located at 6519 Arthur Street in Oakland. The antenna would employ no downtilt, would be mounted at an effective height of about 20 feet above ground, and its principal direction would be oriented toward 320°T. T-Mobile proposes to operate from this facility with a maximum effective radiated power in any direction of 214 watts, representing simultaneous operation 107 watts for AWS and 107 watts for PCS service. There are reported no other wireless telecommunications base stations at this site or nearby.

### **Study Results**

For a person anywhere at ground, the maximum RF exposure level due to the proposed T-Mobile operation is calculated to be 0.0046 mW/cm<sup>2</sup>, which is 0.46% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 3.6% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.



**ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06282A)  
6519 Arthur Street • Oakland, California**

**Recommended Mitigation Measures**

Due to its mounting location and height, the ExteNet antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training be provided to all authorized personnel who have access to the antenna, including employees and contractors of the utility companies. No access within 2 feet directly in front of the antenna itself, such as might occur during certain activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory signs\* on the pole at or below the antenna, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines.

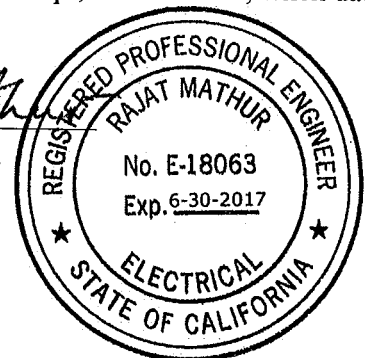
**Conclusion**

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the node proposed by ExteNet Systems CA, LLC, at 6519 Arthur Street in Oakland, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Training personnel and posting signs is recommended to establish compliance with occupational exposure limitations.

**Authorship**

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-18063, which expires on June 30, 2017. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

*Rajat Mathur*  
Rajat Mathur, P.E.  
707/996-5200



October 17, 2016

\* Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (e.g., a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required. Signage may also need to comply with the requirements of California Public Utilities Commission General Order No. 95.

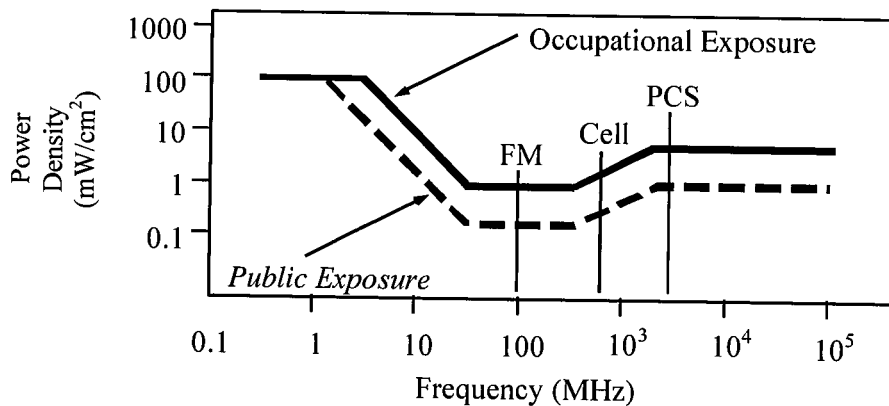


## FCC Radio Frequency Protection Guide

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The FCC adopted the limits from Report No. 86, "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," published in 1986 by the Congressionally chartered National Council on Radiation Protection and Measurements ("NCRP"). Separate limits apply for occupational and public exposure conditions, with the latter limits generally five times more restrictive. The more recent standard, developed by the Institute of Electrical and Electronics Engineers and approved as American National Standard ANSI/IEEE C95.1-2006, "Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," includes similar limits. These limits apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health.

As shown in the table and chart below, separate limits apply for occupational and public exposure conditions, with the latter limits (in *italics* and/or dashed) up to five times more restrictive:

Frequency Applicable Range (MHz)	Electromagnetic Fields (f is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm <sup>2</sup> )	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f<sup>2</sup></i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f <sup>2</sup>	<i>180/f<sup>2</sup></i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√f	<i>1.59√f</i>	√f/106	<i>√f/238</i>	f/300	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.



## RFR.CALC™ Calculation Methodology

### Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission ("FCC") to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

#### Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density  $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$ , in mW/cm<sup>2</sup>,

and for an aperture antenna, maximum power density  $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$ , in mW/cm<sup>2</sup>,

where  $\theta_{BW}$  = half-power beamwidth of the antenna, in degrees, and

$P_{net}$  = net power input to the antenna, in watts,

$D$  = distance from antenna, in meters,

$h$  = aperture height of the antenna, in meters, and

$\eta$  = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

#### Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

power density  $S = \frac{2.56 \times 1.64 \times 100 \times RFF^2 \times ERP}{4 \times \pi \times D^2}$ , in mW/cm<sup>2</sup>,

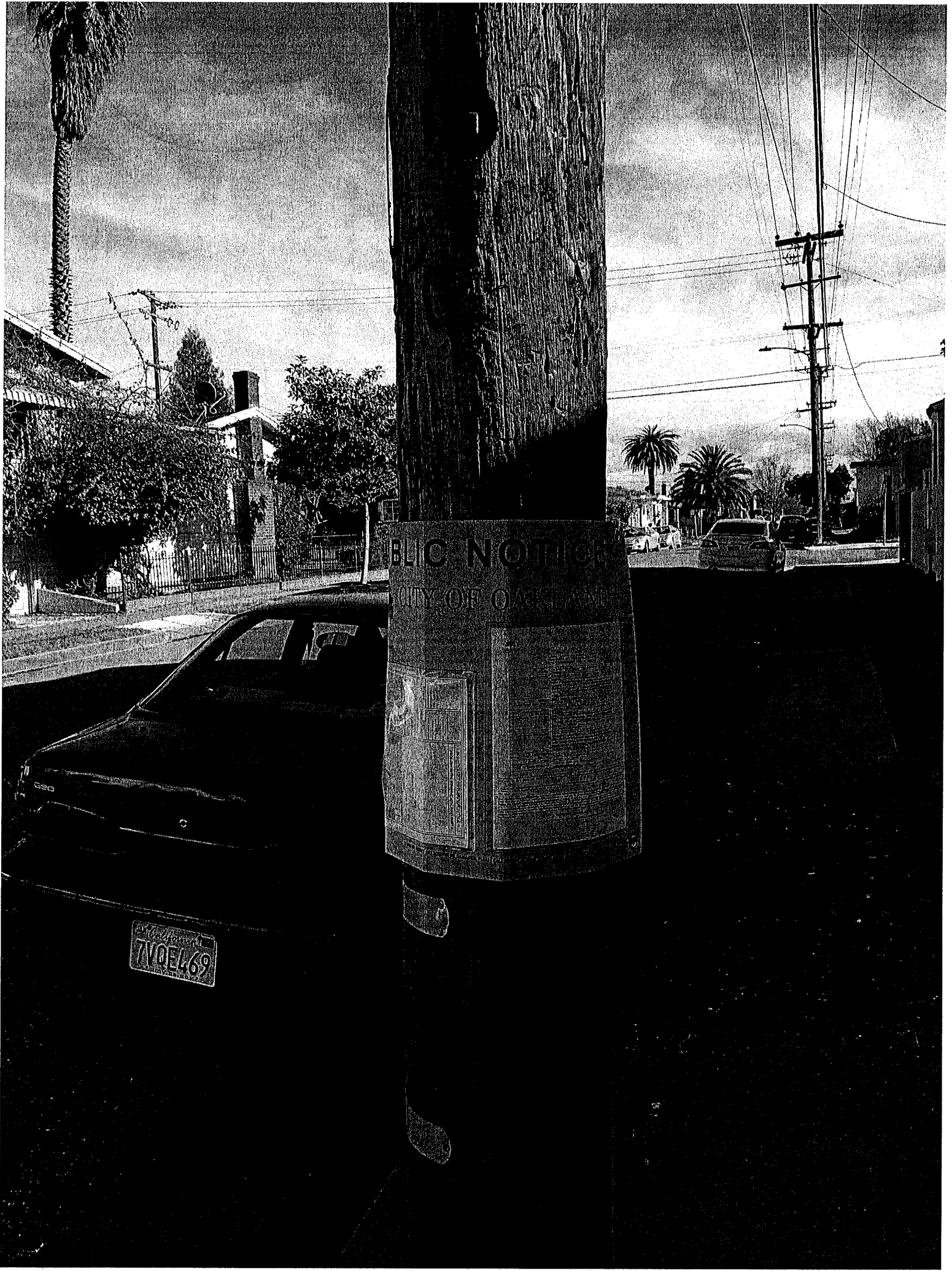
where ERP = total ERP (all polarizations), in kilowatts,

RFF = relative field factor at the direction to the actual point of calculation, and

$D$  = distance from the center of radiation to the point of calculation, in meters.

The factor of 2.56 accounts for the increase in power density due to ground reflection, assuming a reflection coefficient of 1.6 (1.6 x 1.6 = 2.56). The factor of 1.64 is the gain of a half-wave dipole relative to an isotropic radiator. The factor of 100 in the numerator converts to the desired units of power density. This formula has been built into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radiation sources. The program also allows for the description of uneven terrain in the vicinity, to obtain more accurate projections.





PUBLIC NOTICE  
CITY OF OAKLAND

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**CITY OF OAKLAND  
BUREAU OF PLANNING**

250 Frank H. Ogawa Plaza, Suite 2114, Oakland, CA 94612-2031  
Phone: 510-238-3911 Fax: 510-238-4780

**PLANNING COMMISSION PUBLIC NOTICE**

<b>Location:</b>	The public Right of Way near 6519 Arthur Street, on a JPA Utility Telephone Pole
<b>Assessor's Parcel Number(s):</b>	(039-3258-002-00) nearest lot adjacent to the project site.
<b>Proposal:</b>	Installation of a wireless telecommunication facility on a wooden utility pole located in the public right-of-way. The project involves replacement of an existing 36' tall wood utility pole with 48' tall to install one (1) canister antenna measuring 23.5" long and 7.9" in diameter at a height of 13' and install two radio units (7.9' tall and 7.9" wide) mounted at a height of 10'-6" and 13'-3 1/2" above ground.
<b>Applicant:</b>	Black & Veatch for Exterior Systems
<b>Contact Person/Phone Number:</b>	Ana Gomez of Black & Veatch (916) 458-9148
<b>Owner:</b>	Pacific Gas & Electric (PG&E)
<b>Case File Number:</b>	RDN16363
<b>Planning Permits Required:</b>	Major Design Review to install a wireless Macro Telecommunications Facility one (1) telecommunication canister antenna to a replaced PG&E pole located in the public right-of-way in a residential zone.
<b>General Plan:</b>	Detached Unit Residential
<b>Zoning:</b>	RD-1 Detached Unit Residential-1
<b>Environmental Determination:</b>	Exempt, Section 15303 of the State CEQA Guidelines, minor additions and alterations to a replaced PG&E utility pole; Exempt, Section 15302 of the State CEQA Guidelines, replacement or reconstruction of existing utility systems and/or facilities; Exempt, Section 15183 of the State CEQA Guidelines, projects consistent with a community plan, general plan or zoning.
<b>Historic Status:</b>	No Historic Record - Utility Pole
<b>City Council District:</b>	6
<b>Date Filed:</b>	November 20, 2016
<b>Finality of Decision:</b>	Appealable to City Council within 10 Days
<b>For Further Information:</b>	Contact case planner, Jason Madani at (510) 238-0930 or jvmadani@oaklandnet.com.

Comments and questions, if any, should be directed to the Bureau of Planning, 250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612. The public hearing will take place on March 1, 2017, at Oakland City Hall, Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, CA 94612.

If you challenge the Planning Commission decision on appeal and/or in court, you will be limited to issues raised at the public hearing. A copy of the decision will be mailed to you. If you wish to be notified of the decision of any of these cases, please provide your name and mailing address.

Please note that the description of the application found above is preliminary in nature and that the project and/or conditions of approval may be amended. The Planning Commission will hold a public hearing on the application on March 1, 2017, at 7:00 PM. The public hearing will be held at the Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, CA 94612. The public hearing will take place on March 1, 2017, at 7:00 PM. The public hearing will be held at the Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, CA 94612. The public hearing will take place on March 1, 2017, at 7:00 PM. The public hearing will be held at the Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, CA 94612.

POSTING DATE: February 10, 2017  
THIS NOTICE WILL BE ALTERED OR REMOVED WHEN THE PROJECT IS APPROVED.