Case File Number: PLN16317 December 7 2016

Location: The public Right of Way in front of 3169 Davis Street on a

JPA Utility Telephone Pole (See map on reverse)

Assessor Parcel Numbers: (027-0845-007-00) nearest lot adjacent to the project site.

To install one (1) telecommunication canister antenna on an

**Proposal:** existing wood PG&E utility pole 18 feet above ground with the

associated equipment mounted to the pole at six (6) feet high and

above (breaker box and smart meter).

Applicant: Black & Veatch for Extenet Systems

Contact Person/ Phone Ana Gomez of Black & Veatch

Number: (913)458-9148

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

Case File Number: PLN16317

Planning Permits Required: Major Design Review to install a wireless Macro Telecommunications

Facility one (1) telecommunications canister antenna to an existing PG&E pole located in the public right -of- way in a residential zone.

General Plan: Mixed Housing Type Residential

**Zoning:** RM-3 Mixed Housing Type Residential

Environmental Exempt, Section 15301 of the State CEQA Guidelines; minor

**Determination:** additions and alterations to an existing facility; 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.

Historic Status: No Historic Record – Utility Pole

Service Delivery District: 3

City Council District: 5

Date Filed: October 14, 2016

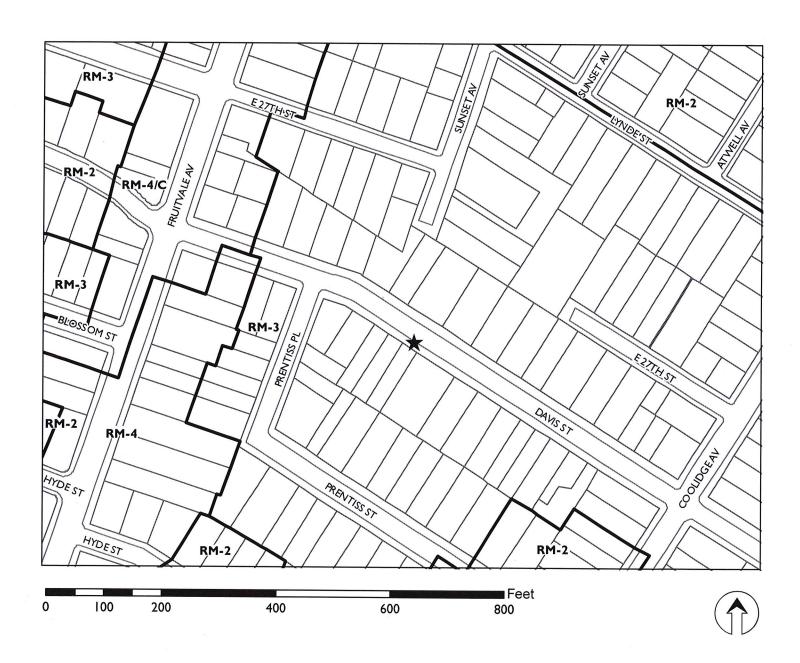
Finality of Decision: Appealable to City Council within 10 Days

For Further Information: Contact case planner Michael Bradley at (510) 238-6935 or mbradley@oaklandnet.com

# **SUMMARY**

The project applicant (Extenet Systems) is proposing to install a wireless telecommunication facility on an existing 44 foot high PG&E utility pole located in the public right-of-way. The facility includes one telecommunication canister antenna 18 feet above ground with the associated equipment mounted to the pole six feet high and above (breaker box and smart meter) and two radio units (7.9" tall and 7.9" wide) mounted at a height of 9'-6" above ground. The canister antenna will be located within an antenna shroud measuring 24" long and 7.9" in diameter at a height of 18'. Staff believes, given the topography, slim equipment design, and location of the existing pole between two existing single-family dwellings, it will blend in with the existing utility apparatus already located on the telephone pole. Major Design Review is required for the installation of a new Macro Telecommunications Facility in a residential zone. Staff believes the proposed

# CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN16317

Applicant: Extenet Systems

Address: Public Right of Way in front of

3169 Davis Street on JPA Telephone Pole

Zone: RM-3

Page 3

antenna and associated equipment are compatible with the existing PG&E utility pole. Further, the proposed antenna will project toward the street, and be painted to match the PG&E utility pole. As result, the proposed telecommunication facility is in an appropriate location and would not significantly increase negative visual impacts to adjacent neighboring residential properties. The proposed project, as conditioned, will be designed to meet the established zoning and telecommunication regulations and staff recommends approval of the Major Design Review application per the required findings.

# 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 Communication 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.

Page 4

- 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, contact Steve Markendorff, Chief of the Broadband Branch, Commercial Wireless Division, Wireless Telecommunications Bureau, at (202) 418-0640 or e-mail "smarkend@fcc.gov".

# PROPERTY DESCRIPTION

The existing 44' high PG&E utility pole is located in the City of Oakland public right -of- way adjacent to a cross sloped parcel in front of 3169 Davis Street.

# PROJECT DESCRIPTION

The applicant is proposing to install a wireless telecommunication facility on an existing 44 foot high PG&E utility pole located in the public right-of-way (Attachment A). The new facility will include:

- One telecommunication canister antenna 18 feet above ground with the associated equipment mounted to the pole six feet high and above (breaker box and smart meter). The canister antenna will be located within an antenna shroud measuring 24" long and 7.9" in diameter, and
- Two radio units (7.9" tall and 7.9" wide) mounted at a height of 9'-6" above ground.

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 Mixed Housing Type 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 a mix of single-family homes, townhouses, small multi-unit buildings, and neighborhood business where appropriate. "Future development within this classification should be primarily residential in character."

The proposed telecommunication facilities will be mounted on an existing PG&E utility pole within the City of Oakland public right-of-way. The proposed unmanned wireless

Page 5

telecommunication facility will not adversely affect and detract from the characteristics of the neighborhood.

# **ZONING ANALYSIS**

The proposed telecommunication facility is located within the RM-3 Mixed Housing Type Residential Zone. The intent of the RM-3 Zone is to create, maintain, and enhance residential areas characterized by a mix of single family homes, duplexes, townhouses, small multi-unit buildings at somewhat higher densities than in RM-2, and neighborhood businesses where appropriate.

Section 17.136.040 and 17.128.070 of the City of Oakland Planning Code requires a Major Design Review permit for Macro Telecommunication facilities that are attached to utility poles in the RM-3 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, additions and alterations to existing facilities; Section 15302, replacement or reconstruction of existing utility systems and/or facilities; and Section 15183, projects consistent with a 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.

Page 6

Facilities sited on an A, B or C ranked preference do not require a site alternatives analysis. Since the proposed project involves the installation of a new antenna on an existing PG&E utility pole within an RM-3 Zone, the proposed project meets both preferences B and G, and a site alternatives analysis is required.

# **Alternative Site Analysis:**

Extenet Systems 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 location is approximately equidistant from other Distributed Antenna System (DAS) nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Staff has reviewed the applicant's alternative sites analysis (Attachment B) 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.

Page 7

# **Alternative Design Analysis:**

Extenet System evaluated whether the equipment could be under grounded 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 by rainwater saturation. The proposed antenna design is approximately equidistant from other DAS nodes proposed in the surrounding area so that service coverage can be evenly distributed. 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 written evidence of alternative design analysis and determined that the site selected conforms to the telecommunication regulation requirements. (Attachment B) Specifically, given the topography, streamlined equipment design, and location of the existing pole between two existing single family dwellings, the facility will blend in with the existing utility apparatus on the existing 44 foot high wood telephone pole. Furthermore, the proposed new antenna is located within a shroud screening mounted onto the PG&E utility pole 18' above ground and the two radio units will be attached to the pole at 9'-6" in height above the ground.

# **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. In the document (Attachment C) prepared by Hammett & Edison RF Compliance Experts, Inc. Inc. Registered Professional Engineer, the proposed project was evaluated for compliance with appropriate guidelines limiting human exposure to radio frequency electromagnetic fields. According to the report on the proposal, 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.

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.

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 of the required findings for approval. The proposal will provide an essential telecommunication services 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:

Michael Bradley

Planner I

Approved by:

Scott Miller Zoning Manager

Approved for forwarding to the City Planning Commission

Darin Ranelletti, Interim Director Planning and Building Department

# **ATTACHMENTS:**

- A. Project Plans & Photo simulations
- B. Site & Design Alternative Analysis
- C. Hammett & Edison, Inc., Consulting Engineering RF Emissions Report
- D. Community Outreach Summary
- E. Extenet Systems Antenna Explanation letter

Case File Number: PLN16317 Page 9

# **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 is to install one telecommunication canister antenna on an existing wood PG&E utility pole 18 feet above ground with the associated equipment mounted to the pole at six (6) feet high and above (breaker box and smart meter). Given the topography, slim equipment design, and location of the existing pole between two existing single family dwellings, it will blend in with the existing utility apparatus already located on the telephone pole. Therefore, the proposal will have minimal visual impacts from public view.

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 and painted to blend in with the existing surrounding area in order to have minimal visual impacts on public views and protect 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 designated Mixed Housing Type Residential by the Oakland General Plan. This designation is intended to create, maintain, and enhance residential areas typically located near the City's major arterials and characterized by a mix of single-family homes, townhouses, small multi-unit buildings, and neighborhood business where appropriate. The proposed project is residential in nature and consistent with the General Plan. "Future development within this classification should be primarily residential in character." The proposed telecommunication facilities will be mounted on an existing PG&E utility pole within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility will not adversely

affect and detract from the characteristics of the neighborhood. Its visual impacts will be mitigated since the antennas and equipment be aesthetically streamlined and given the topography, and placement of the existing pole between two existing single family dwellings, it will blend in with the existing utility apparatus on the existing 44 foot high wood telephone pole.

# 17.128.070(B) DESIGN REVIEW CRITERIA FOR MACRO FACILITIES

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

The proposed antennas will be painted to match a PG&E utility pole and blend with the surroundings.

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 will not be mounted on building or architecturally significant structure, but rather on a PG&E utility pole.

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 mounted on an existing PG&E utility pole and painted to match the utility pole which will be camouflaged to blend-in with existing surrounding wooded area.

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 equipment will be located within a single equipment box attached to the existing utility pole and painted to match pole to blend with the surroundings.

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

The proposed equipment cabinets will be compatible with the existing PG&E related equipment.

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.

Page 11

The one telecommunication canister antenna will be mounted on an existing wood PG&E utility pole 18 feet above ground and will not be accessible to the public due to its location. The equipment above the breaker box and smart meter will be located 9'-6" above the ground.

Case File Number: PLN16317 Page 12

# **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 12**, **2016** and submitted on **October 14**, **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

Page 13

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

Page 14

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. <u>Special Inspector/Inspections, Independent Technical Review, Project Coordination and Management</u>

# 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. 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

Case File Number: PLN16317 Page 15

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.

# **PROJECT SPECIFIC CONDTIONS:**

# 13. 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.

# 14. 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.

# 15. 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.

Page 16

# **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	

NO SCALE

CODE COMPLIANCE

ATTACHMENT A

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CORRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL COVERNING AUTHORITIES (AS APPLICABLE), NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

**EXTENS** 

1: BC = 2012
2: CALEPRINA BILLIDING STANDARDS CODE = 2013
3: CALEPRINA GENERAL, OPDER 85.
4: CALEPRINA PILLIBING CODE 2013
6: CALEPRINA PILLIBING CODE 2013
6: CALEPRINA PILLIBING CODE 2013
7: CITY AND/OR COUNTY ORDINANCES
8: 2012 NETRANDHAL FIRE CODE
9: BULLING OFFICIALS AND CODE JOHNSTRATORS (BOCA)
4: PETERCINE UNITAL JANUARY 817, 2017

SIGNATUR

STRUCTION SIGNATURE

# NW-CA-SANFRNMC ADJACENT TO (IN PROW) 3169 DAVIS STREET 06069A

OAKLAND, CA 94601



SHEET NO:

SHEET TITLE

SHEET INDEX

GENERAL SITE PLAN
UTILITY POLE ELENATIONS AND RISER DETAILS
EQUIPMENT DETAILS

ADDRESS: 2000 CROW CANYON PL SUITE 210 SAN RAMON, CA 94583 OWNER: EXTENET SYSTEMS CA, LLC

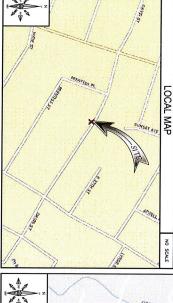
ADDRESS: 2000 CROW CANYON PLACE, SUITE 210 SAN RAMON, CA 94583

MYERGOVICHO EXTENETSYSTEMS.COM (415) 596-3474 CONTACT: MATTHEW YERGOVICH COMPANY: EXTENET SYSTEMS (CALIFORNIA), LLC.

APPLICANT

POLE OWNER

EQUIPMENT DETAILS



# Sull? Logan St SITE MAP

HARDWARE AND ANCILLARY EQUIPMENT TO BE INSTALLED AS DESCRIBED HEREIN. THESE DRAWINGS DEPICT THE INSTALLATION OF A WIRELESS TELECOMMUNICATIONS NODE IN THE PUBLIC RIGHT OF WAY.

**BLACK & VEATCH** 

P

BLACK & VEATCH CORPORATION 2999 OAK ROAD SUITE 490 WALNUT CREEK, CA 94597

PROJECT DESCRIPTION

# PROJECT INFORMATION

# GENERAL PROJECT NOTES

 CONTRACTOR SHALL VERIFY ALL FIEL DIMENSIONS OF THE JOB SITE AND INDICATED ON THESE CONSTRUCTION ACCOMPLISHED AS SHOWN PRIOR TO WORK. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.

ALL FIELD MODIFICATIONS BEFORE, DURING OR AFTER CONSTRUCTION SHALL BE APPROVED IN WRITING BY AN EXTENET SYSTEMS REPRESENTATIVE.

INSTALL ALL EQUIPMENT AND MATERIALS PER THE MANUFACTURER'S RECOMMENDATIONS, UNLESS INDICATED OTHERWISE.

NOTIFY ETIGHT SYSTEMS, IN MATTHE, OF ANY MAJOR DECREEMACES, GEARRING THE COMPRACTOR SHAML, BE GENDRICKS, AND DESIGN MEDT. THE COMPRACTOR SHAML BE RESPONSIBLE FOR GENERANIC CLARENCHOINS FROM AM EXTENET ACCORDINGLY.

CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT FARE TO REMAIN, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF AN EXTENET SYSTEMS REPRESENTATIVE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK UNDER THE CONTRACT.

WERFY ALL FINAL EQUIPMENT WITH AN EXTRET SYSTEMS ARE REPRESENTANCE. ALL EQUIPMENT WITH AN EXTRET, SYSTEMS AND THE FINAL LOCATION AND THE FINAL LOCATION AND THE PROPRICE OF CONTRACTOR SMALL BE RESPONSIBLE FOR COODMINION BLYER WORK WITH THE WORK AND CLEMANCES REQUIRED BY OTHERS RELATED TO SMO INSTALLATIONS. CONTRACTOR PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY EXTENET OR TMOBILE, THE CONTRACTOR SHALL PROVIDE EXTENET SYSTEMS WITH ONE COPY OF ALL RED-LINED DRAWINGS.

	DESCRIPTION	DATE	REV
EMEW	ISSUED FOR REMEM	09/12/16	>
EMEW	ISSUED FOR REMEN	09/13/16	8
AS.	CUENT COMMENTS	09/22/16	n
			)
43	MBS	192417.4211	1924
CHECKE	PROJECT NO. DRAWN BY	JECT NO.	PRO

CHECKED BY

	PTION	DESCRIPTION	DATE	REV
MBM	FOR R	ISSUED FOR REMEM	09/12/16	>
ENEW	FOR R	ISSUED FOR REMEM	09/13/16	
ă	COMME	CUENT COMMENTS	09/22/16	٩

DATE DESCRIPTION	R
09/12/16 ISSUED FOR REMEM	>
09/13/16 ISSUED FOR REMEM	8
09/22/16 CUENT COMMENTS	n

E AS-BUILT CONDITION OF	TING IMPROVEMENTS AND ACTOR SHALL REPAIR ANY CONSTRUCTION TO THE REPRESENTATIVE.
-	
	IT IS A VOLATION OF LAW FOR ANY PERSON, UNLESS HOV ARE ACTING MOSE THE DIRECTION OF A LICENSED PROFESSIONER BYGNEER, 10 ALTER THIS DOCUMENT.

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

ADJACENT TO (IN PROW) 3169 DAVIS STREET OAKLAND, CA 94601

TITLE SHEET SHEET TITLE

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

ADDRESS: 2999 OAK ROAD, SUITE 490 WALNUT CREEK, CA 94597

CONTACT: ANA GOMEZ

PHONE: ENGINEER: AARON EVANS COMPANY: BLACK & VEATCH

(952) 896-0751 EVANSRA**©**BV.COM

POLE #: LONGITUDE:

110141887 -122.21884 37.789393

ZONING JURISDICTIO

RM-3 27-845-7 CITY OF OAKLAND COMPANY: BLACK & VEATCH

AGENT

ENGINEER

PROJECT DATA

E-MAIL:

GOMEZABARCAA@BV.COM (913) 458-9148

CONSTRUCTION TYPE OCCUPANCY: NEAREST A.P.N.: ZONING DISTRICT: ELEVATION:

ATTACHMENTS TO A WOOD UTILITY POLE

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. THIS PROJECT IS EXEMPT.

TITLE 24 REQUIREMENTS

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB STIE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WEITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

Ϊ,

UTILITIES PROTECTION CENTER, INC.
811

UNDERGROUND SERVICE ALERT

PRELIMINARY

# GENERAL NOTES

- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS.
- THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTEMANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THESE PLANS AND IN THE CONTRACT DOCUMENTS.
- PROPO TO THE SUBMISSION OF BOS. THE CONTRACTOR(S) SHALL YIST THE LOB STIES) AND SE RESPONSIBLE FOR ALL CONTRACT CONTRACTS ANY DISCREPANCES ARE TO BE BROUGHT TO THE ATTENTION OF THE MATERIATION CHARGEST PROPORT OF DISCREPANCES AND THE CONTRACTS OF THE MATERIATION CONTRACTS CON
- THE CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED ON INE CONTRACT AND CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK,
- AL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, RECULATIONS, AND ORDINANCES, INCLUDING APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS IN THE CONTRACT AND CONSTRUCTION DOCUMENTS AND/OR APPLICABLE COOKS OR REQUADROUS, REVER AND RESOLVE THE CONFLICT WITH DIRECTION FROM THE MAPLEMENTAING MORNERS AND ACCRITICE/DIAGNEES PROPO TO PROCEEDING.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION ADAMS, METROW, TECHNIQUES, SEQUENCES, AND RECOURSES AND FOR COORDINATION OF ALL PROTIONS OF THE WORK UNDER THE CONTRACT NOLLDING CONTRACT AND COORDINATION WITH THE MECLENIATION ENGINEER AND WITH THE MACHINETED REPRESENTATIVE OF ANY OUTSIDE FOLL OF PROPERTY OWNER.
- THE CONTRACTOR SHALL HAVE NECESSARY PROVISIONS TO PROTECT EXISTING LIBEROPLEMENTS, INCLUDING BUT NOT LIMITED TO PANIOL, CURRES, VEGLETION, CALLWANZED SURFACE OR OTHER EXISTING ELEMENTS AND UPON COMPLETION OF THE WORK, REPAIR ANY DAWAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF EXTENT.
- PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED.
  RELY ONLY ON ANNOTATED DIMENSIONS AND REQUEST INFORMATION IF ADDITIONAL DIMENSIONS ARE REQUIRED CONTRACTOR IS TO KEEP THE GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOKE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, LEAVE PREMISES IN CLEAK CONDITION DALLY.
- THE CRETECT AND LOCATION OF UTILITIES AND DIMER ACCOPY'S FURITIES WERE REFINED BY A SCARCH OF MANUALER RECORDS, ORDER FURITIES WE REST, COMPACTIONS AND ASSETT AND THE STANDIES. ORDER FURITIES WE AND APPLICATION OF UTILITIES OF PRESENT CAMBEL TO INTES WHITAIN THE COMPACTION OF STREAMERS, FOR THE APPLICATION OF UTILITIES OF OTHER BEACHTS SAUDIES WHITAIN THE UTILITY OF THE WORK, WHETHER THEY ARE IDENTIFIED IN THE COMPACT DOCUMENTS OR ADD.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCANATION.

# DEFINITIONS

- TYPICAL OR TYPE MEANS THAT THIS ITEM IS SUBSTANTALLY THE SAME ACROSS SMILAR CONDITIONS. TYPE SAME, HE UNDESSIDOD TO MEAN TYPICAL WHERE OCCURS" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR CONSIDERATION OF SPECIFIC CONDITIONS.
- "AS REQUIRED" MEANS AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICE, OR BY THE CONTRACT DOCUMENTS. "SMILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR THE CONDITION NOTED, VERIFY DIMENSIONS AND ORIENTATION ON PLAN.
- "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
- WHEE THE WHORS "OR EQUIA" OR WOOSS OF SMULAR INTENT FOLLOW A MATERIAL SPECIFICATION, THEY SHALL BE UNDERSTOOD TO REQUIRE SOUND APPROVAL OF AND EXMINION IS OAD SPECIFICATION PRIOR TO CONTRACTIOR'S ORDERING OR INSTALLATION OF SUCH PROPOSED EQUIAL PRODUCT. THE TERM "YERPY" OR "V.F." SHALL BE UNDERSTOOD TO MEAN "VERIFY IN FIELD WITH ENGINEER" AND REQUIRES THAT THE CONTRACTOR CONFIRM INTENTION RECARDING NOTED CONDITION AND PROCEED ONLY AFTER RECEIVING DIRECTION.
- 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 WELDER FOR THE TYPE OF AND POSITION INDICATED, ALL WORK MUST BE IN CONFORMANCE WITH LATEST EDITION OF AWS D1.1.
- GRIND SURFACES TO BE WELDED WITH A SILICON CARBIDE WHEEL PRIOR TO WELDING TO REMOVE ALL CALLAMEZING WHICH MAY OTHERWISE BE CONSUMED IN THE WELD METAL APPLY ANTI-SPATTER COMPOUND AFTER CRINDING.
- WEIGHT CTEMPOLE MUT MAMUIT TEMPERATION RES ON THE HEIGE SAFFEC OF THE POLL AND ALSO VOLATION, ANY ENAMEN CARE WHEN THE RESERVANCE AND THE MAMUNUM SATTION, ALSO MOTE TO MAKETER ELECTRODE COMPARIES. WITH WEIGHT POSITION AND MUTERAL THROUGHS. STRICTLY FOLLOW, ALL MAMUNEAUTHES'S SAFFECTIONES FOR STRONG AND USE OF MUTERAL THROUGHS. AND DESCRIPTIONS THE STRONG AND DESCRIPTIONS AND RESERVANCE AND USE OF THE MATERIAL PROPERTY FOR MATERIAL RESERVANCES. MOTO REMOVING ELECTRODES FROM MANUFACTURES PROMOTION UNIT. RECOY FOR MATERIAL USE.
- WELDING MAY PRODUCE TOXIC FUMES. REFER TO ANSI STANDARD 249.1 "SAFETY IN WELDING AND CUTTING" FOR PROPER PRECAUTIONS.
- UPON COMPLETION OF MELDING, APPLY CALV-A-STICK ZING COATING TO ALL UNPROJECTED SURFACES, APPLY A SECOND LYKER OF COLD CALVANIZING SPRAY COMPOUND CONTINUNC A INMINUM ZING CONTENT OF 95%, IN 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 CALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP CALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE CALVANIZED IN ACCORDANCE WITH ASTA A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO WANDFACTURER'S RECOMMENDATIONS. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- PROPA TO SETINAC ANTENA AZMATIAS AND DOMNILIS, ANTENA, CONTRACIDA SHALL RE SET FORM INSENDITOR TOR TIGHTESA AND ESCARE THAT THEY ARE ELUMB, ANTENA AZMATIAS SHALL RE SET FORM INSENDITOR ORBITAD WITHIN 4/- 5% AS DEFINED BY THE REDS, ANTENA DOMNILIS SHALL RE WITHIN 4/- 5% AS DEFINED BY THE REDS, ANTENA DOMNILIS SHALL RE WITHIN 4/- 5% AS DEFINED BY THE REDS.

GENERAL NOTES AND LEGENDS

# 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. A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
- B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
- ALL BM ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
- ALL 12M ANTENNA HAROWARE SHALL BE TIGHTENED 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 DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 29.8 NM).
- ALL N TYPE CONNECTIONS SHALL BE TIGHTENED 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" [.038M].
- FILL ALL HOLES LEFT IN POLE FROM REARRANCEMENT OF CLIMBERS
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS
- CABLE NOT TO IMPEDE 15" [.381M] CLEAR SPACE OFF POLE FACE (12:00).
- 90 SHORT SWEEPS UNDER AVTENNA ARM, ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS).
- USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- USE 1/2" [.013M] CABLE ON ANTENNAS 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
- 24 HOURS PRIOR TO SCHEDULED POWER SHUT OFF CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)892-5327

- PROVIDE THE FOLLOWING INFORMATION

  NOC SITE NUMBER DENTIFIED ON SITE NUMBERING STICKER

  VOUR NAME AND REASON FOR POWER SHUTOFF

  PROVIDE DURATION OF DUTAGE
- UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
- POWER SHUT OFF VERIFICATION WITH APPROVED POLE 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)892-5327

- PROVIDE THE FOLLOWING INFORMATION :

  NOC SITE NUMBER DENIFIED ON SITE NUMBERING STICKER

  YOUR NAME AND REASON FOR POWER SHUTOFF

  PROVIDE DURNTION OF OUTAGE

- REINSTALL LOCK ON DISCONNECT BOX

- UNLOCK DISCONNECT BOX, FLIP BOTH BREAKERS TO THE OFF POSITION
- POWER SHUT OFF VERIFICATION WITH APPROVED PG&E PROCEDURES
- NOTIFY EXTENET NOC UPON COMPLETION OF WORK

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM CHEMICAL ELECTROLYTIC GROUNDING SYSTEM EXOTHERMIC WITH INSPECTION SLEEVE

GROUND ROD

CHAINLINK FENCE

EASE AREA WALL STRUCTURE WOOD/WROUGHT IRON FENCE

OVERHEAD POWER UNDERGROUND FIBER JNDERGROUND POWER JNDERGROUND TELCO

WATER LINE SETBACKS PROPERTY LINE (PL)

OVERHEAD TELCO

INDERGROUND TELCO/POWER

BOVE GROUND TELCO/POWER BOVE GROUND TELCO BOVE GROUND POWER

DETAIL REFERENCE

SECTION REFERENCE

ĪĪ

REAL ESTATE SIGNATUR

ONSTRUCTION SIGNATURE SIGNATURE

TERNAL REVIEW

AGT - AGT - AGT - AGT - AGT - AGT AGP - AGP - AGP - AGP - AGP - AGP UGT/P — UGT/P — UGT/P — UGT/P —



# LEGEND

EXOTHERMIC CONNECTION MECHANICAL CONNECTION

EXTENS MConnective SYSTEMS

CROUNDING BAR

TEST GROUND ROD WITH INSPECTION SLEEVE

P

**BLACK & VEATCH** 

BLACK & VEATCH CORPORATION 2999 OAK ROAD SUITE 490 WALNUT CREEK, CA 94597









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.

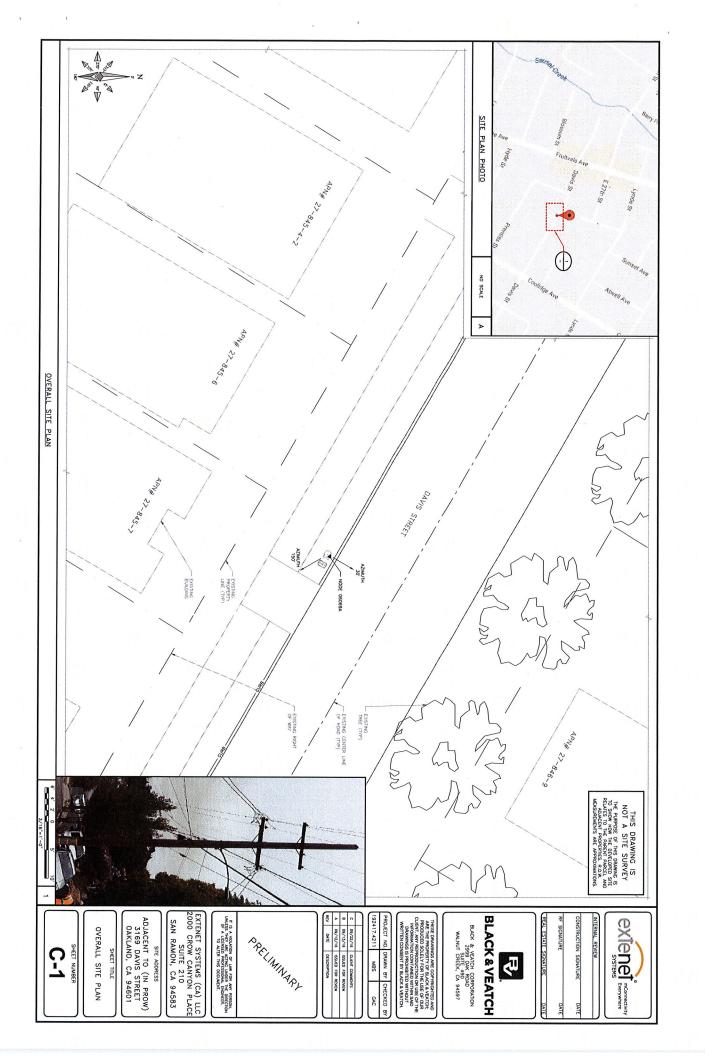
EXTENET SYSTEMS (CA) LLC 2000 CROW CANYON PLACE SUITE 210 SAN RAMON, CA 94583

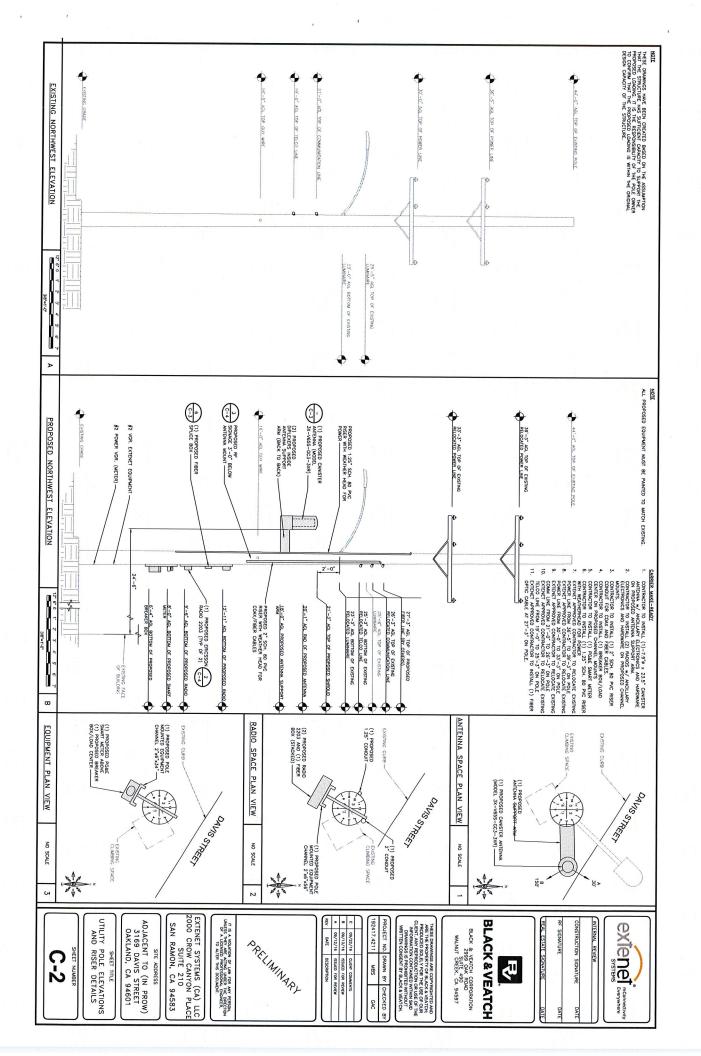
ADJACENT TO (IN PROW 3169 DAVIS STREET OAKLAND, CA 94601 SHEET TITLE

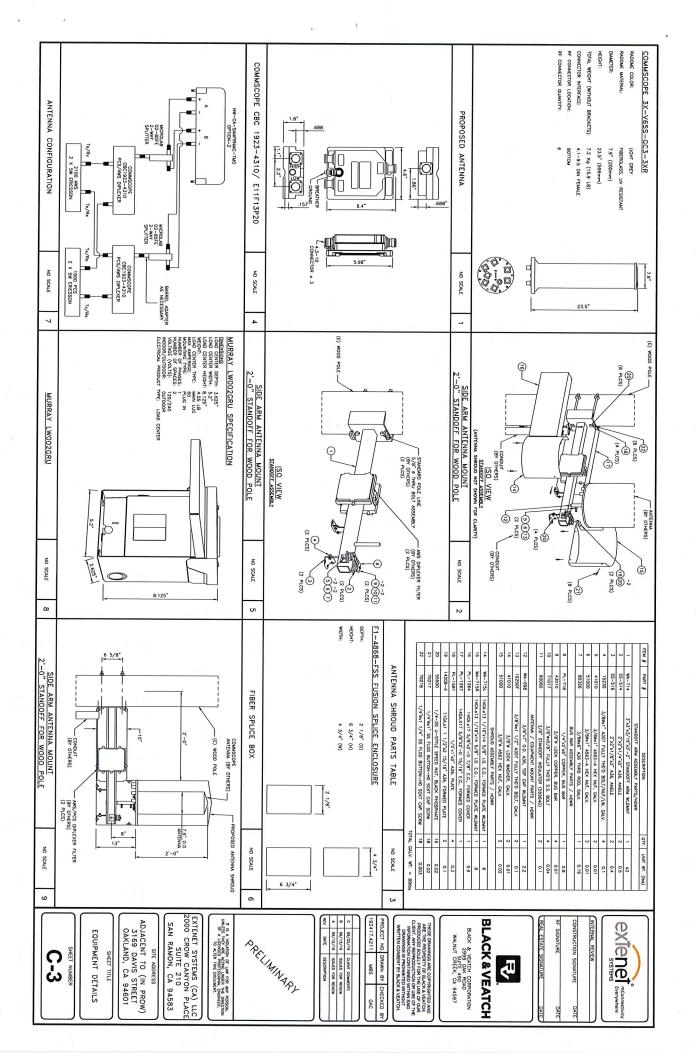
SITE ADDRESS

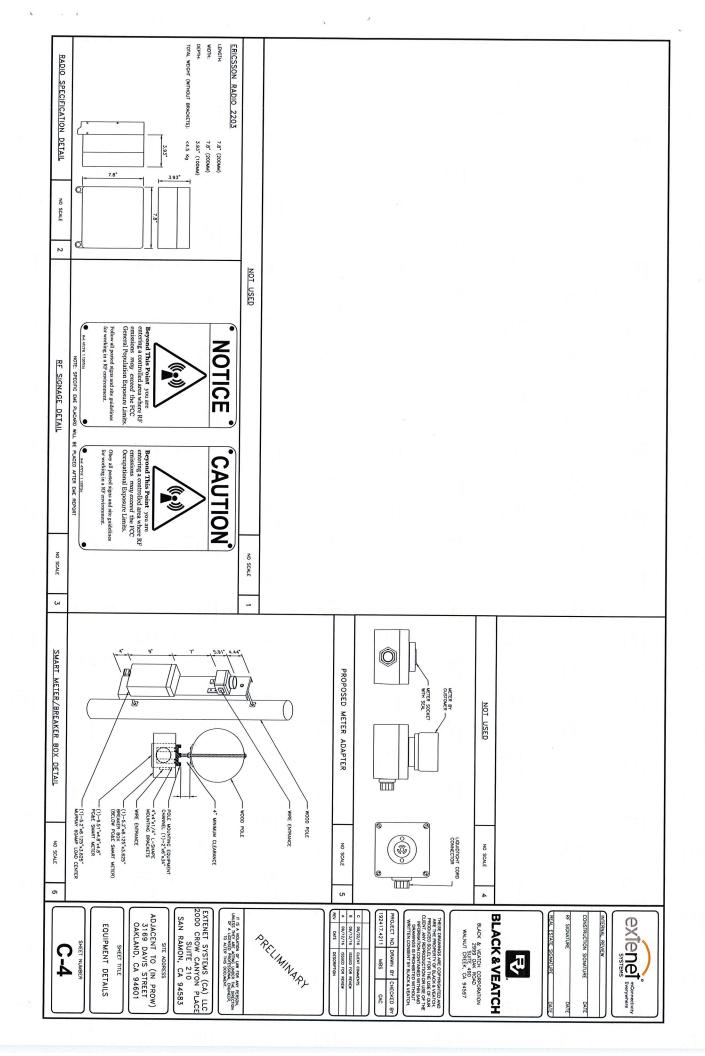
GENERAL NOTES
AND LEGEND

**GN-1** 

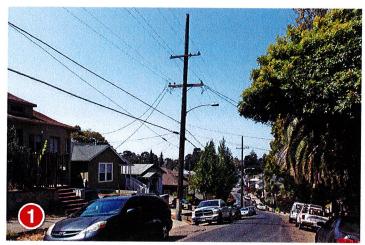








# ATTACHMENT A



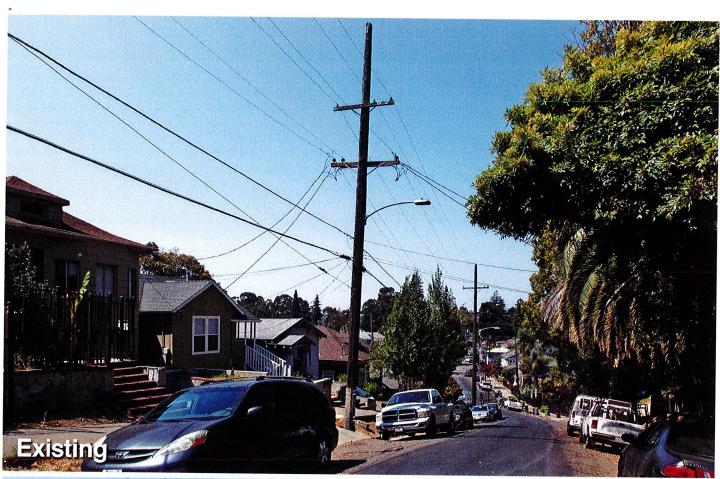


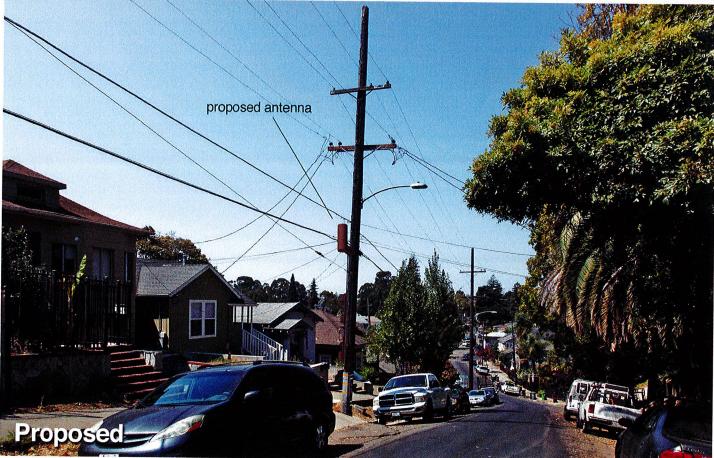




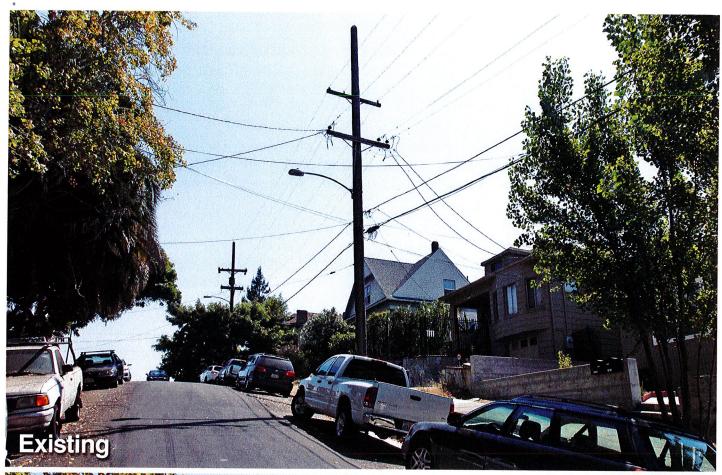
NW-CA-SANFRNMC-06069A

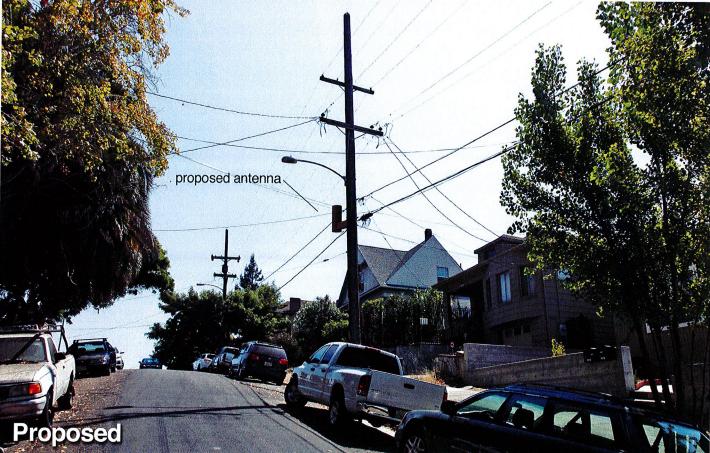
**Aerial Map** 













# ATTACHMENT B



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 3169 Davis Street

Site ID: NW-CA-SANFRANMC Node 06069A

Latitude/Longitude: 37.789393, -122.218840

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 3169 Davis Street ("Node 06069A"). 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 44 foot tall wood utility pole in the public right-of-way on the south side of Davis Street just southeast of the intersection with Prentiss Place, at about 3169 Davis Street. Power lines are on the pole at about 30 feet and 36 feet above ground.

ExteNet proposes to utilize existing pole measuring 44 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 9 feet 6 inches and 12 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>&</sup>lt;sup>1</sup> ExteNet 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 06069A.

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 06069A is an integral part of the overall small cell project, and it is located in a difficult coverage area near Coolidge Avenue. The coverage area consists of a primarily residential neighborhood off of Davis Street, Prentiss Place, Fruitvale, Coolidge Avenue, and surrounding areas. Node 06069A 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 06069A is the least intrusive means to close T-Mobile's significant service coverage gap in the area. Node 06069A 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 06069A 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 06069A, ExteNet considered alternative sites set forth in the attached Alternative Site Analysis.

ExteNet Systems
2000 Crow Canyon Place, Suite 210 • San Ramon, CA 94583
(415) 596-3474 • myergovich@extenetsystems.com

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

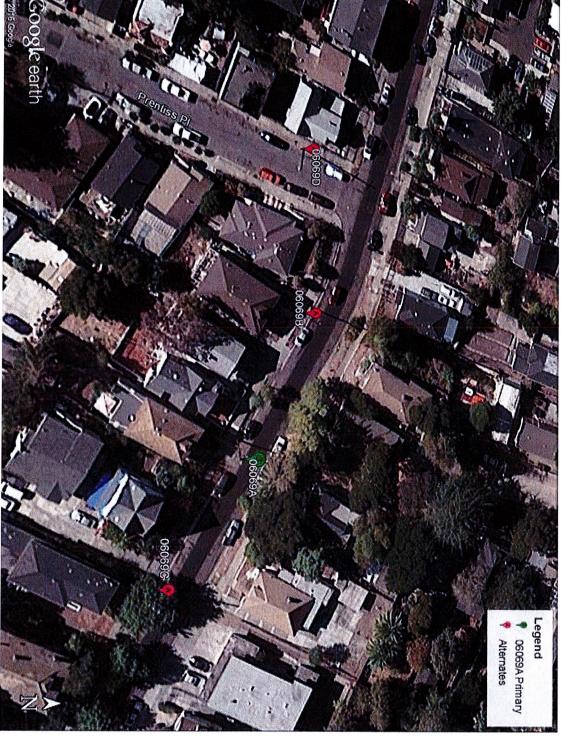
Matthew S. Yergovich

<sup>&</sup>lt;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).



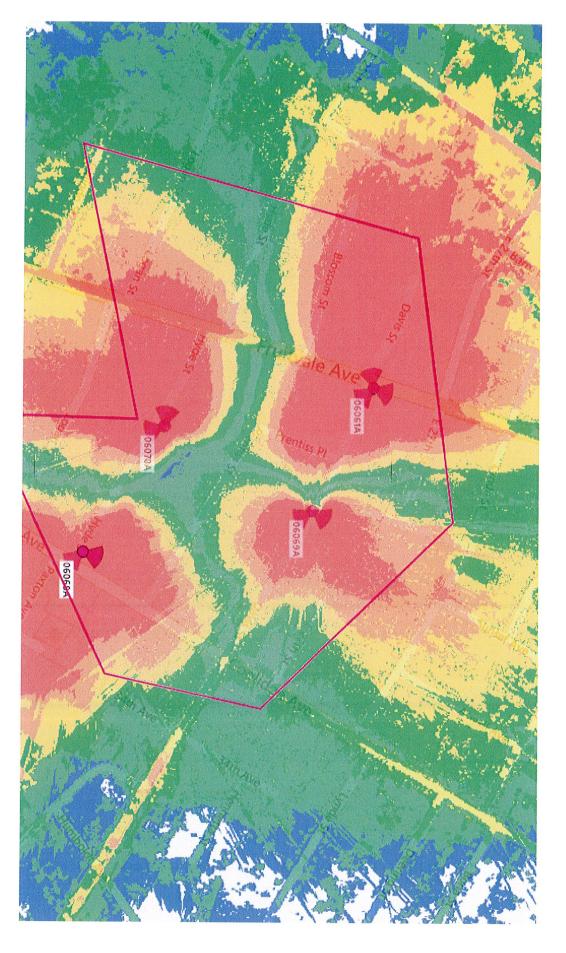
# **NODE 06069A** EXTENET OAKLAND ALTERNATIVE SITE ANALYSIS

# MAP OF ALTERNATIVE POLES EVALUATED FOR NODE 06069A



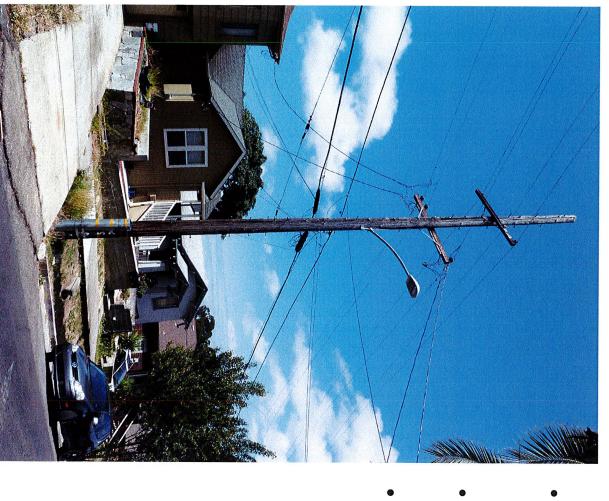
- The above maps depict ExteNet's proposed Node 06069A-in relation to other poles in the area that were evaluated as possibly being viable alternative candidates.
- The following is an analysis of each of those 3 alternative locations.

# PROPAGATION MAP OF NODE 06069A



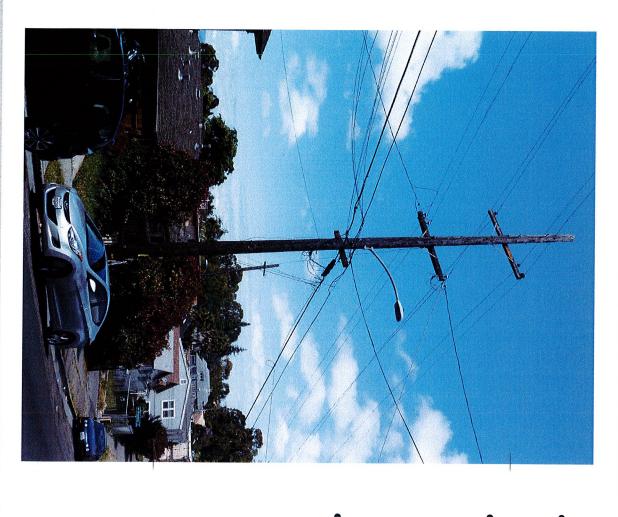
This propagation map depicts the ExteNet proposed Node 06069A in relation to surrounding proposed ExteNet small cell nodes.

# 06069A - PROPOSED LOCATION



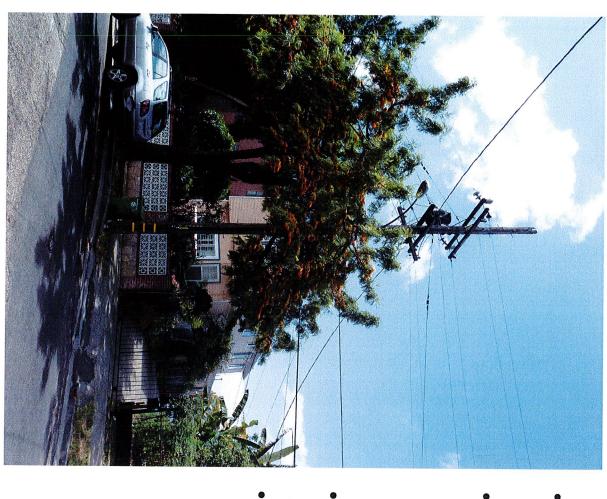
- The location for ExteNet's proposed Node 06069A is a joint utility pole located adjacent to PROW at 3169 Davis Street (37.789393, -122.21884).
- ExteNet's objective is to provide T-Mobile 4G wireless coverage and capacity to the Oakland area.
- ExteNet evaluated this site and nearby alternatives to verify that the selected site is the least intrusive means to close T-Mobile's significant service coverage gap.

# **ALTERNATIVE NODE 06069B**



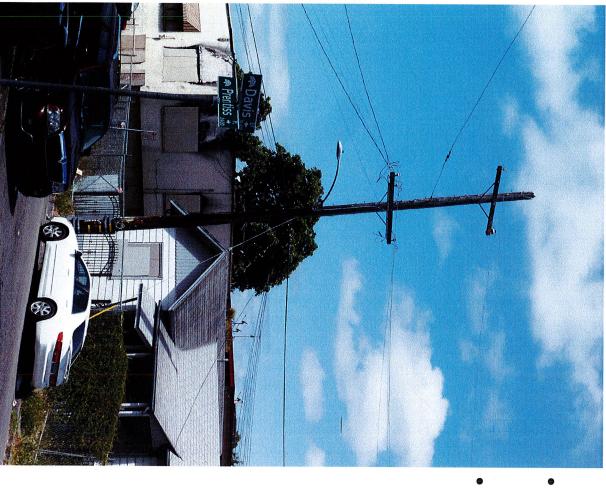
- Node 06069B is a joint utility pole next to 3151 Davis Street (37.789517, 122.219178).
- This pole is not a viable alternative candidate because cross lines and cross arms prevent adequate climbing space on the pole pursuant to CPUC General Order 95, thus prohibiting a wireless facility from being installed at this location.
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06061A.

# ALTERNATIVE Node 06069C



- Node 06069C is at a joint utility pole at 3201 Davis Street (37.789536, 122.219191)
- 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 Order95, thus prohibiting a wireless facility from being installed at this location.
- This pole is not a viable alternative because the signal would be blocked by a tree.
- This pole is not a viable alternative candidate because this pole is located too far to primary Node 06061A.

# ALTERNATIVE NODE 06069D



- Node 06069D is at a joint utility pole near 3284 Hyde Street (37.787506, 122.218653).
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06061A.

# **ALTERNATIVE SITE ANALYSIS CONCLUSION**

intrusive location from which to fill the surrounding significant wireless coverage gaps. Based on ExteNet's analysis of alternative sites, the currently proposed Node 06069A is the least



# ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06069A) 3169 Davis Street • Oakland, California

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

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of ExteNet Systems CA, LLC, a wireless telecommunications carrier, to evaluate the addition of Node No. 06069A 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 3169 Davis 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:

Frequency Band	Occupational Limit	Public Limit
5,000–80,000 MHz	$5.00 \text{ mW/cm}^2$	$1.00 \text{ mW/cm}^2$
2,600	5.00	1.00
2,100	5.00	1.00
1,950	5.00	1.00
870	2.90	0.58
o) 855	2.85	0.57
700	2.35	0.47
ge] 30–300	1.00	0.20
	5,000–80,000 MHz 2,600 2,100 1,950 870 o) 855 700	5,000-80,000 MHz 5.00 mW/cm <sup>2</sup> 2,600 5.00 2,100 5.00 1,950 5.00 870 2.90 o) 855 2.85 700 2.35

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. 06069A) 3169 Davis 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 22, 2016, it is proposed to install one CommScope Model 3X-V65S-GC3-3XR, 2-foot tall, tri-directional cylindrical antenna, with two directions 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 3169 Davis 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 directions would be oriented toward 30°T and 150°T. T-Mobile proposes to operate from this facility with a maximum effective radiated power in any direction of 122 watts, representing simultaneous operation at 61 watts for AWS and 61 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 0.0026 mW/cm<sup>2</sup>, which is 0.26% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 2.5% 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. 06069A) 3169 Davis 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 1 foot 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 3169 Davis 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. OROFESSIONAL

707/996-5200

October 5, 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.



No. E-18063

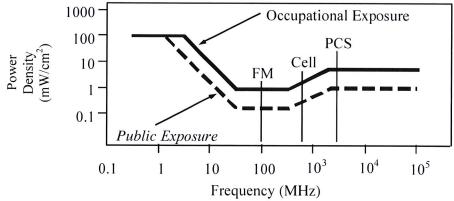
Exp.6-30-2017

# **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_	Electromagnetic Fields (f is frequency of emission in MHz)					
Applicable Range (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	614	1.63	1.63	100	100
1.34 - 3.0	614	823.8/f	1.63	2.19/f	100	$180/f^2$
3.0 - 30	1842/ f	823.8/f	4.89/ f	2.19/f	$900/ f^2$	$180/f^2$
30 - 300	61.4	27.5	0.163	0.0729	1.0	0.2
300 - 1,500	3.54 <b>√</b> f	1.59 <b>√</b> f	<b>√</b> f/106	$\sqrt{f/238}$	f/300	f/1500
1,500 - 100,000	137	61.4	0.364	0.163	5.0	1.0



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<sup>™</sup> 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  $S = \frac{180}{\theta_{\text{RW}}} \times \frac{0.1 \times P_{\text{net}}}{\pi \times D \times h}$ , 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 ( $1.6 \times 1.6 = 2.56$ ). 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.



HAMMETT & EDISON, INC.

CONSULTING ENGINEERS SAN FRANCISCO

# ATTACHMENT D



November 18, 2016

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

Re:

**Public Outreach Summary** 

Applicant:

ExteNet Systems (California) LLC

Nearest Site Address: Public Right of Way near 3169 Davis Street

Site ID:

NW-CA-SANFRNMC-TMO Node 06069A

Latitude/Longitude:

37.789393, -122.21884

Planning Application: PLN16137

Dear City Planner,

This week we notified the following groups by sending them the attached project flier:

- Friends of Peralta Hacienda Historical Park
- Unity Council/ Fruitvale Business Improvement District

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

ana Gomes By Ba Extellet

Best Regards,

Ana Gomez

ExteNet Permitting Contractor

1



# ExteNet is improving wireless service in Oakland!

November 11, 2016

ExteNet Systems is a neutral host telecommunications infrastructure provider that is working to improve wireless service in Oakland.

We will soon be proposing to install fiberoptic cables and state-of-the-art small cell wireless facilities at existing telephone pole and light pole locations in the Oakland public right-of-way.

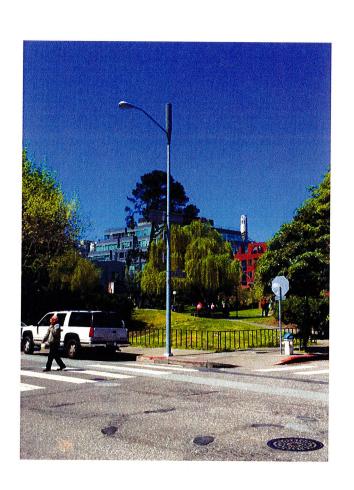
Telecommunications carriers transmit their signal through ExteNet's facilities to improve wireless voice, data, and public safety connectivity.

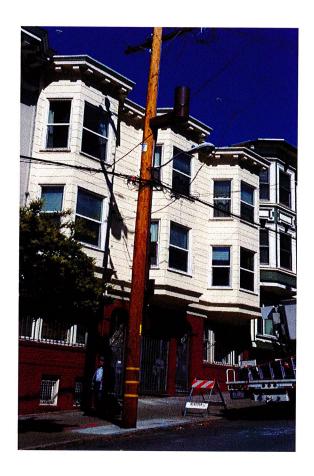
Although experiences with wireless services vary based on specific location and usage times, the wireless service proposed by this infrastructure will help meet existing, fluctuating and future demands.

Please see attached examples of actual ExteNet facilities like the ones we will be proposing in Oakland.

### Want to learn more?

Please visit <a href="http://www.extenetsystems.com/">http://www.extenetsystems.com/</a> or email <a href="mayergovich@extenetsystems.com/">myergovich@extenetsystems.com/</a>





# ATTACHMENT E



November 15, 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 3169 Davis Street

Site ID:

NW-CA-SANFRNMC-TMO Node 06069A

Latitude/Longitude:

37.789393, -122.21884

Planning Application: PLN16137

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.

ana Gomes By for Extellet

Thank you.

Best Regards,

Ana Gomez

ExteNet Permitting Contractor