Item #6, PLN16412, was continued from the February 15, 2017, Planning Commission Meeting.

Case File Number: PLN16-412 February 15, 2017

Location: The public Right of Way in front of 2400 66th Avenue on a

PG&E Utility /Telephone Pole (See map on reverse)

Assessor Parcel Numbers: (039-3259-028-00) nearest lot adjacent to the project site.

Installation of a wireless telecommunication facility on a 38'-6" tall wooden utility pole located in the public right-of-way. The

Proposal: project involves installation of one (1) canister antenna (23.5"

long and 7.9" in diameter) at a height of 18' and two radio units (7.9" tall and 7.9" wide) 10'-6" and 13'-11" above ground.

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: PLN16-412

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

Telecommunications Facility on an existing PG&E pole located

in the public right -of- way in a residential zone.

General Plan: Detached Unit Residential

Zoning: RD-1 Detached Unit Residential.

Environmental Exempt, Section 15303 of the State CEQA Guidelines, new

Determination: construction or conversion of small structures; 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: December 2, 2016

Finality of Decision: Appealable to City Council within 10 Days

Contact case planner Jason Madani at (510) 238-4790 or

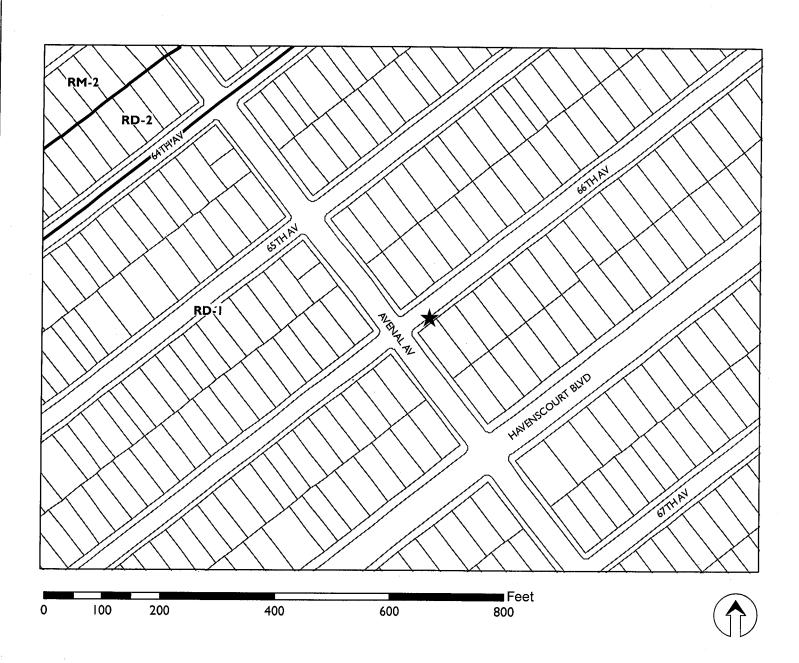
For Further Information: imadani@oaklandnet.com

SUMMARY

The project applicant (Extenet Systems) is proposing to install a wireless telecommunication facility on an existing 38'-6" tall wooden PG&E utility pole located in the public right-of-way near 2400 66th Avenue. The project involves installation of one (1) canister antenna located within antenna shroud and two radio units (7.9" tall and 7.9" wide) mounted at a height of 10'-6" and 13'-11" above ground.

Major Design Review is required for the installation of a new Macro Telecommunications Facility in a residential zone. The proposed antenna and associated equipment are compatible with the existing PG&E utility pole and typical of utility infrastructure normally found on these poles. The proposed antenna will be extended toward the street and painted a gray or brown color to blend with the site. As result, the proposed telecommunication facility is in an appropriate location and would not significantly increase negative visual impacts to adjacent

CITY OF OAKLAND PLANNING COMMISSION



Case File: PLN16412

Applicant: Black & Veatch for Extenet Systems

Address: The public Right of Way in front of

2400 66th Avenue on a JPA Utility Pole

Zone: RD-I

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neighboring residential properties. The proposed project meets all the required findings for approval of this 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.

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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 38'-6" high PG&E utility pole is in the City of Oakland public right -of-way and is 23' away from an adjacent one-story residential building at 2400 66th Avenue.

PROJECT DESCRIPTION

The applicant is proposing to install a telecommunication facility on an existing PG&E utility pole located within in the public right-of-way (Attachment A). The project involves:

- Installation of one canister antenna measuring 23.5" long and 7.9" in diameter at a height of 18'.
- Installation of two radio units (7.9" tall and 7.9" wide) mounted 10'-6" and 13'-11" above ground.
- Installation of a breaker box and smart meter mounted to the pole 8' above ground.
- Painting 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. 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 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.

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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.

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 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 15303, new construction or conversion of small structures and Section 15183, projects consistent with a community plan, 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 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 located within RD-1 Zone, the proposed project meets preferences B and a site alternatives analysis is not required. However, the applicant has provided a site alternatives analysis (Attachment B).

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Alternative Site Analysis:

The project is 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 the public right-of -way.
- C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from the 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.

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The proposed antenna design is approximately equidistant from other DAS (Distributed Antenna Systems) 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 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 existing utility pole approximately 23' away from a one-story single-family dwelling, the facility will blend in with the existing PG&E utility pole apparatus. 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 10'-6" and 13'-11" in height above the ground. Finally, the shroud and radio units will be painted gray 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 RF emissions report (Attachment C) prepared by Hammett & Edison, 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. The RF emissions report also 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.

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CONCLUSION

The proposed project meets all 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, and
- 2. Approve the 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 Department of Planning and Building

ATTACHMENTS:

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

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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 proposal is to install one telecommunication canister antenna on an existing, wooden, PG&E utility pole 18' above ground with the associated equipment mounted to the pole at 10'-6" and 13'-11" high and above (breaker box and smart meter). Given the flat topography, slim equipment design, and proposal to paint the equipment, the facility will blend in with and be typical of utility apparatus already located on the pole. In addition, the facility is located approximately 23' away from a one-story single family dwelling. Finally, the proposed antennas and radio units will be located high up on the pole and oriented toward the street. Therefore, the proposal will have minimal visual impacts from public views.

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 gray or brown color to blend in with the existing surrounding area and 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 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."

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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 same block and throughout the City. The proposed antenna and associated related equipment are compatible with and typical of the utility equipment on these poles. The proposed antenna will be extended toward street and away from the home at 2400 66th Avenue and painted to match either the pole or utilities. As result, the proposal is consistent 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 proposed antenna and related equipment will be painted gray or brown to match the 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 a 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 antenna will be mounted on an existing PG&E utility pole and painted gray or brown to match the utility pole. As a result, the facility will be camouflaged to blend-in with existing surrounding area. The facility will also be located approximately 10'-6" and 13'-11" above ground and head height to minimize visual impacts.

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 attached to an existing utility pole, oriented toward the street and painted to match pole in order to blend with the surroundings. The antenna will be located within an antenna shroud.

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

The proposed equipment will be compatible with the existing PG&E pole and other utility equipment located on the pole.

Case File Number: PLN16-412 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 27**, **2016** and submitted on **December 2**, **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

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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

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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. <u>Days/Hours of Construction Operation</u>

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

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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.

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.

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 Applican
Dota

Attachment A

OXIONET MCONNECTIVITY

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE COURSE IN THE LOCAL GOVERNACK ANTIONETICS (SA APPLICABLE). NOTHING IN HESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

CODE COMPLIANCE

CONSTRUCTION SIGNATURE

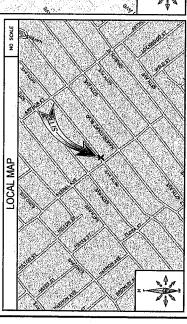
REAL ESTATE SIGNATURE

RF SIGNATURE

1: IBC — 2 CALEFORMA BILLIDNC STANDARDS CODE — 2013
2: CALLFORMA CALEFORMA CENTRAL CODE 2013
4: CALLFORMA CENTRAL CODE 2013
5: CALLFORMA FILLIBLAN CODE 2013
5: CALLFORMA FILLIBLAN CODE 2013
6: CALLFORMA ELECTRICAL CODE 2013
7: CITT AMANO FOUNTA CODE 2013
7: CITT AMANO FOUNTA CODE 2013
7: CITT AMANO FOUNTA CODE 2013
8: COLT INTERNATIONAL FIRE, CODE
9: BOULDON OFFICIAL AND CODE AMANOSTRANDRS (BOCA)
FIFTECTINE UNIT, JANUARY 151, 2017

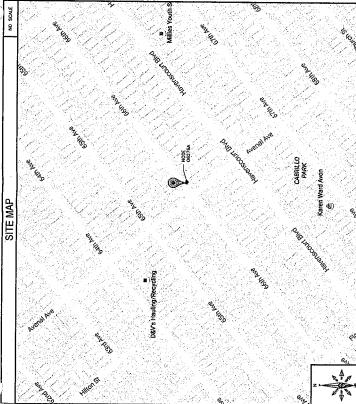
NW-CA-SANFRNMC 06276A

ADJACENT TO (IN PROW) 2400 66TH AVENUE OAKLAND, CA 94605



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

SUBCONTRACTOR SHALL VERITY ALL PLANS & EXISTING DIARDISONS & CONDITIONS ON THE JOB SITE & SHALL MAEDISTRACTIV NOTITY THE SUBJECT WINSTING OF AN DISCREPANCIES THE SUBJECT PROCEDING WITH THE WORK OR HE RESPONSIBLE FOR SUA



BLACK & VEATCH

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

PROJECT DESCRIPTION

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

APPLICANT	COMPANY: EXTENET SYSTEMS (CALIFORNIA), LLC.
POLE OWNER	: EXTENET SYSTEMS CA, עוב

PROJECT INFORMATION

ADDRESS: 2000 CROW CANYON PLACE, SUITE 210 SAN RAMON, CA 94583 CONTACT: MATTHEW YERGOVICH -WAIL: ADDRESS: 2000 CROW CANYON PL., SUITE 210 SAN RAMON, CA 94583

ENGINEER COMPANY: BLACK & VEATCH COMPANY: BLACK & VEATCH AGENT

(952) 896-0751 ENGINEER: AARON EVANS : 2999 OAK ROAD, SUITE 490 WALNUT CREEK, CA 94597 (913) 458-9148 CONTACT: ANA GOMEZ ODRESS: PHONE: E-MAIL:

CITY OF DAKLAND

ZONING JURISDICTION

ELEVATION:

ZONING DISTRICT:

NEAREST A.P.N.: OCCUPANCY:

39-3259-28

-122.187749

110123082

PROJECT DATA

MYERCONCHO EXTENETSYSTEMS.COM

(415) 596-3474

PRIOR TO SUBMITING A BIO, THE CONTRACTOR SHALL FAMELWRIZE HANSDE? HERSELF WITH THE SCOPE OF WORK AND ALL CONDITIONS AFFECTING THE NEW PROJECT.

GENERAL PROJECT NOTES

PROJECT NO. DRAWN BY CHECKED BY

SkC

DMS

192417.4441

CONTRACTOR SHALL VERFY ALL FIELD CONDITIONS AND MINISONS OF THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THESE CONSTRUCTION DOCUMENTS CAN BE MODIFICATION OF SHOWN PRIOR TO COMMENCEMENT OF ANY WORK.

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.

DISCRIPTOR DETECTS IN WATTNO, OF ANY MAJOR ODSOFTPANCES RECENOING THE CONTRACT DOUBLENTS. BESTING CONDITIONS. AND DESIGN WITSTIT, THE CONTRACTOR SHALL BE CONTRICUENT SHALL BE CONTRACTOR SHALL BE CONTRACTOR. AND ADUSTING THE BIO THE SHALL BE CONTRACTOR SHALL BE SHALL BE SHALL BE CONTRACTOR SHALL BE CONTRACTOR SHALL BE SHALL BE

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF THE WORK UNDER THE CONTRACT. CONTRACTOR SHALL PROTECT ALL EXISTING MARQVEMENTS AND FINISHES. THAT ARE TO REMAIL CONTRACTOR SHALL RESPIR ANY DOMAGE THAT MAY OCCUR DURING THE CONSTRUCTION TO THE SATISFACTION OF AN EXTENET SYSTEMS REPRESENTANT. CONTRACTOR PLANS TO ILLUSTRATE THE AS—BURT CONDITION OF THE SITE, POLLUDIWIN THE FRALL INSPECTION BY EXTENET OR THINGBILE, THE CONTRACTOR SHALL PROVIDE EXTENET SYSTEMS WITH ONE COPY OF ALL RED—LINED DRAWINGS.



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

ADJACENT TO (IN PROW) 2400 66TH AVENUE OAKLAND, CA 94605

TITLE SHEET SHEET TITLE

UTILITIES PROTECTION CENTER, INC. 811 UNDERGROUND SERVICE ALERT

> FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THIS PROJECT IS EXEMPT, ATTACHMENTS TO A WOOD UTILITY POLE

> > TITLE 24 REQUIREMENTS

CONSTRUCTION TYPE:

7

GENERAL NOTES

- THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS, CONTRACT AND CONSTRUCTION DOCUMENTS.
- THE WORK SHALL INCLUDE FURNISHING MATERIAS, EQUIPAENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THESE PLANS AND IN THE CONTRACT DOCUMENTS.
- PRINK TO THE SUBJECTION OF BEING THE CONFIDENCE (SHALL WITH THE ORD STATE OF THE CONFIDENCE OF THE CONFIDENCE OF THE CONFIDENCE AND DELESTORS, AND CONFIDENCE THAT THE ORDER OF THE CONFIDENCE O
 - THE CONTRACTOR SYML, RECENT. WRITEN AUTHORIZATION TO PROCEED ON ANY WORK NOT CLEARLY DEFINED OR DENTIFIED IN THE CONTRACT AND CONSTRUCTION DOCUMENTS BEFORE STARTING ANY WORK.
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 - THE CONTRACTOR SALE OF SOLLS (ESCOPERED CON ALL CONSTRUCTOR MENNS, EMPIRED, TENDOR, TENDORS, SECURIOLS, SECURIOLS, AND PROCEDURES, AND FOR COORDINATION WITH IRE MALELEMENTAR DEPORTED FOR THE MENN THE MAIN PROPERTY OF THE WARM UNDER THE MAIN PROPERTY OF MAY OUTSIDE POLL OF REPORTY ORNER.
 - THE CONTENT SHALL MAY NECESSAY PROVISORS TO PROTECT ENTING IMPROVEDENTS, INCLUDING BUT MIT LIBERT OF THE STREET OF THE ENTINGENEERS AND UPON COUNTENT OF THE WORK, FERMER ANY DAMAGE THAT COLDINGED CONSTRUCTION TO THE STREET, OF THE PROPERTY.
- contractor is to keep the general area clean, hazard free, and dispose of all dirt, debris, housing, conditive couparent not specified as redaming on the property. Leave prejainses in clean condition daily.
- PLANS ARE INTENDED TO BE DIAGNAMARIC ONLY AND SHOULD NOT BE SCALED UNLESS OTHERWISE NOTED. RELY ONLY ON ANNOTATED DIAGNSTONS AND REQUEST INFORMATION IF ADDITIONAL, DIAGNSTONS ARE REQUIRED. õ
 - ME ESTEVE WE OLCHWON OF TRUTTS AND OTHER ACRON'S FACILIES WERE OSFANED BY A SEARCH OF MEMBER SECREMENT OF A LICENSTRUCTION WERE ACRONICES WERE SECREMENT OF A LICENSTRUCTION WERE ACRONICES WERE SECREMENT OF A LICENSTRUCTION OF
 - THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227—2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCANATION. ž

DEFINITIONS

- THPICAL" OR TYPT MEANS THAT THIS FIEM IS SUBSTANTIALLY THE SAME ACROSS SMILAR CONDITIONS. THE SMLL BE UNDESSTOOD TO JUAN TYPICAL MEETE COCCINES" AND SHALL NOT BE CONSIDERED AS WITHOUT EXCEPTION OR COMPUTATION OF SPECIFIC CONDITIONS.
 - "SHILAR" MEANS COMPARABLE TO CHARACTERISTICS FOR THE CONDITION NOTED, VERITY DIMENSIONS AND OREDITATION ON PLAN.
- "AS REQUIRED" MEANS AS REQUIRED BY REQUIATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING COMMINIONS, BY GENERALLY ACCEPTED CONSTRUCTION PPACTICE, OR BY THE CONTRACT DOCUMENTS.
- THE TEXA "YERPY" OR "Y.L.F." SHALL BE UNDERSTOOD TO MEAN "YERPY IN FILD WITH ENCINEER" AND RECEIVED THE CONTRACTOR CONFRAL INTENTION RECARDING INDIED CONDITION AND PROCEED ONLY AFTER RECEIVED, DESCRIPTION. "ALIGN" MEANS ACCURATELY LOCATE FINISH FACES OF MATERIALS IN THE SAME PLANE.
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FIELD WELDING NOTES:

- WELDING TO BE PERFORMED BY AWS CERTIFIED WELDER FOR THE TIPE OF AND POSITION INDICATED. ALL WORK AUST BE IN CONFORMANCE WITH LATEST EDITION OF AWS D1.1. _
- WEINDE TICOMODE, MUST MEMORE TEACHOURE, RISE ON THE INDICE SURFACE OF THE FOLE, AND ALSO MEMORED THE THE COST OF THE WINDSCORD STREET OF THE ALGORITHM THE GOST OF THE WINDSCORD STREET OF THE ALGORITHM THE WINDSCORD STREET OF THE ALGORITHM T GRND SURFACES TO BE WELLEO WITH A SILICON CARBIDE WHEEL PRIOR TO WELDING TO REMOVE ALL BACKWAINDA WHICH MAY OTHERWISE BE CONSUMED IN THE WELD METAL APPLY ARTH-SPATTER COMPOUND. AFTER GROUNG.
 - Welding way produce toxic funes. Refer to ansi standard 249.1 "Safety in Welding and Cutting" for proper precautions.
- PURY COMPETION OF WEIGHT, APPLY CAUV-A-STICK ZINC COATING TO ALL UNPROTECTED SURFACES. APPLY A SECOND LYPER OF COLD CAUVAIRIZING SPROKE CEMPORATION OF WINNIAM ZINC FOR CONTENT OF SOMERING SPROKE. WE RECESSORY, APPLY A FINAL COAT OF COMPINIE PAINT TO MAICH SURFACURING SURFACES.

ANTENNA MOUNTING

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- AL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZING (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOUTS, 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 ASTAI A780.
 - ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO WANDFACTURER'S RECOMMENDATIONS. contractor shall install antenna per manufacturen's recommendation for installation and grounding.
- FIGHOR TO SETTING, ATTEMPA AZURINES, AND DOWNINGS, ANTERNA, CONTRECTOR SHALL BE SET FIRM, TRIED MONTH AND BE OBSERTED WHIN +4-1-55. AS DETRIED BY THE FITES, ANTERNA, DOWNING IS SHALL BE SET FIRM, TRIED +4-1-65. AS OBTINED BY THE FITES.

TORQUE REQUIREMENTS

- al. Ry Connections, grounding hardware and antenna hardware shall have a torque mark installed in a continuous straucht line from both sides of the connection. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH
 - A. AF CONNECTION BOTH SIDES OF THE CONNECTOR

exienel

CONSTRUCTION SIGNATURE

REAL ESTATE SIGNATURE RF SICNATURE

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 TICHTENED TO 9 LB-FT (12 NM).

- ALL 12M ANTENNA HARDWARE 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 28.8 NM).
 - ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 2.3 NM).

ROW UTILITY POLE CONSTRUCTION NOTES

- FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMBERS NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2" [.038M].
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS
- CABLE NOT TO IMPEDE 15" [.381M] CLEAR SPACE OFF POLE FACE (12:00).
- 80 SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST ONLY TRANSTION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
- USE 90 CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- place GPS on arm with southern sky exposure at mininum 6" (1.83) from transmit antenna, waich is 24" [.6.1M] away from center of pole.
- - 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

- A CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (868)892-5327 24 HOURS PRIOR TO SCHEDULED POWER SHUT OFF

- PROVINE THE FOLLOWING INFORMATION

 NOS STEIN MARIBER INDIFFIEE ON STEIN INJURIES STICKER

 YOUR NAME AND REASON FOR POWER SAUTOFF

 PROVINE DURATION OF DUTAGE
- PULL DISCONNECT HANDLE TO "OFF" POSITION
- POWER SHUT OFF VERFICATION WITH APPROVED PG&E PROCEDURES
- NOTIFY EXTENET NOC UPON COMPLETION OF WORK REINSTALL LOCK ON POWER HANDLE
- EMERGENCY POWER SHUT OFF
- CALL EXTENET SYSTEMS NOC (NETWORK OPERATIONS CENTER) (866)892-5327
 - PROVIDE THE FOLLOWING INFORMATION

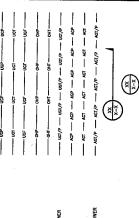
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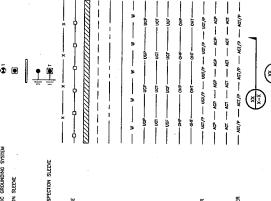
 YORN HAME AND REASON FOR POWER SHUTOFF

 PROVIDE DURATION OF OUTAGE
- PULL DISCONNECT HANDLE TO "OFF" POSITION
- POWER SHUT OFF VERIFICATION WITH APPROVED PG&E PROCEDURES NOTIFY EXTENET NOC UPON COMPLETION OF WORK
 - REINSTALL LOCK ON POWER HANDLE

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM CHEMICAL ELECTROLYTIC GROUNDING SYSTEM TEST GROUND ROD WITH INSPECTION SLEEVE EXOTHERMIC WITH INSPECTION SLEEVE WOOD/WROUGHT IRON FENCE EXOTHERMIC CONNECTION MECHANICAL CONNECTION UNDERGROUND POWER UNDERGROUND TELCO UNDERGROUND FIBER PROPERTY LINE (PL) WALL STRUCTURE CHAINLINK FENCE OVERHEAD POWER GROUNDING BAR OVERHEAD TELCO SROUND ROD WATER LINE EASE AREA ETBACKS

* --- * --- * -- NGT/P -- NGT/P -- NGT/P -- NGT/P -- NGT/P 늄 - uct/P -- uct/P -- uct/P --- uct/P --- uct/P --- AGP --- AGP --- AGP --- AGP --- AGP ABOVE GROUND TELCO/POWER UNDERGROUND TELCO/POWES ABOVE GROUND POWER ABOVE GROUND TELCO SECTION REFERENCE DETAIL REFERENCE





BLACK & VEATCH

9

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



WRITTEN COR	WRITTEN CONSENT BY BLACK & VEATCH.	K & VEATCH.
PROJECT NO. DRAWN BY	DRAWN BY	снескер вт
192417.4441	DMS	GAC

195	192417.4441	SMO	วชว
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٧	91/21/60	ISSUED FOR REVIEW	EMEW
/00	3190	CESTOIPTON	



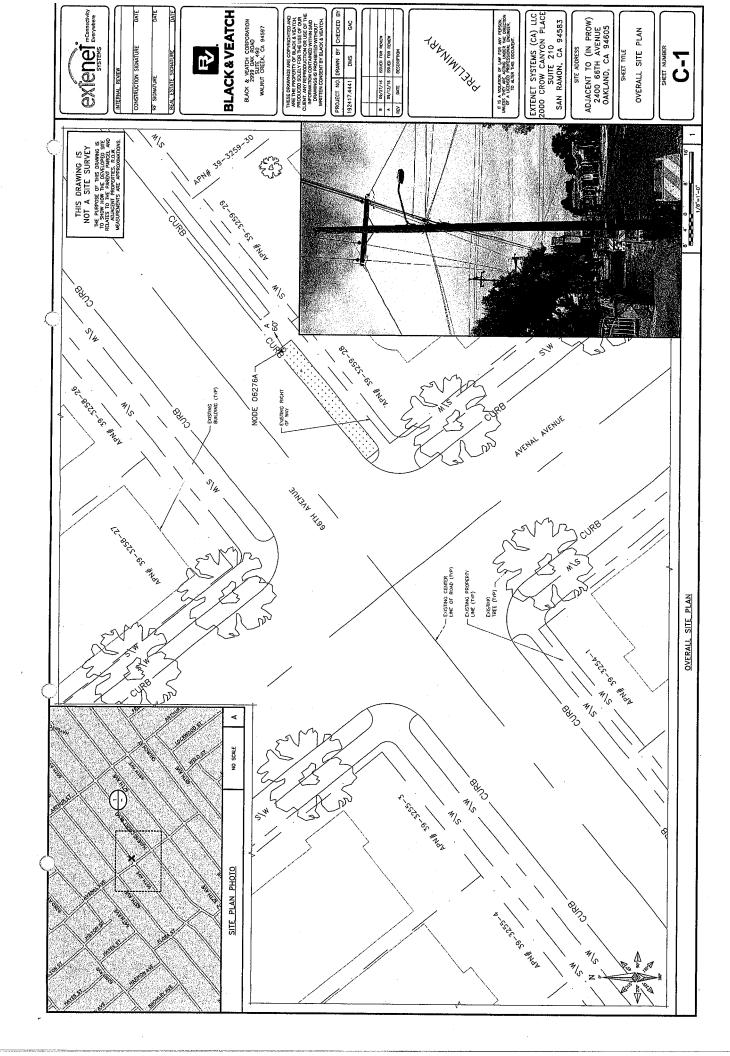
If is a violation of LAW for any person, unless they are acting under the direction of a lucsness professional engager, to alter this document

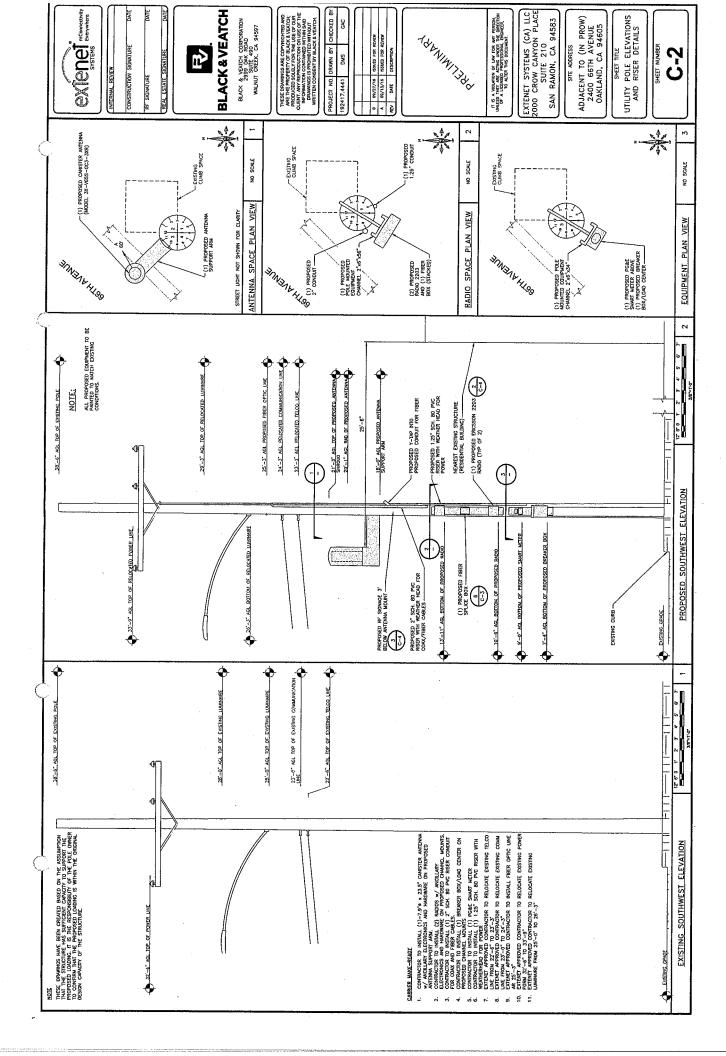
EXTENET SYSTEMS (CA) LLC 2000 CROW CANYON PLACE SUITE 210 SAN RAMON, CA 94583

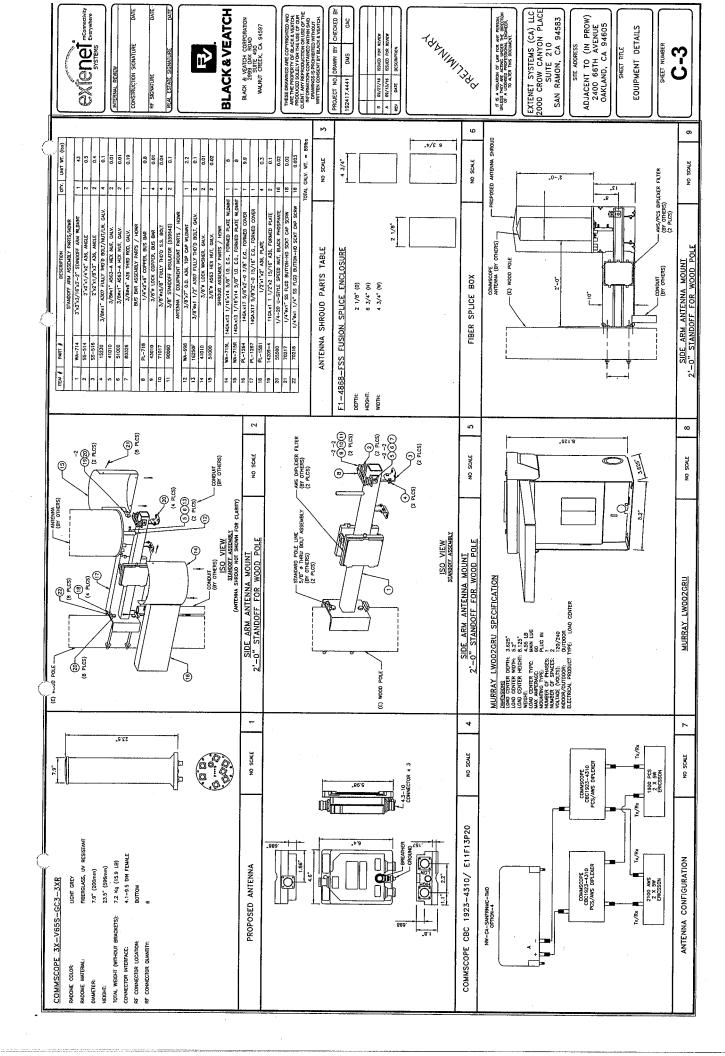
ADJACENT TO (IN PROW) 2400 66TH AVENUE OAKLAND, CA 94605 SITE ADDRESS

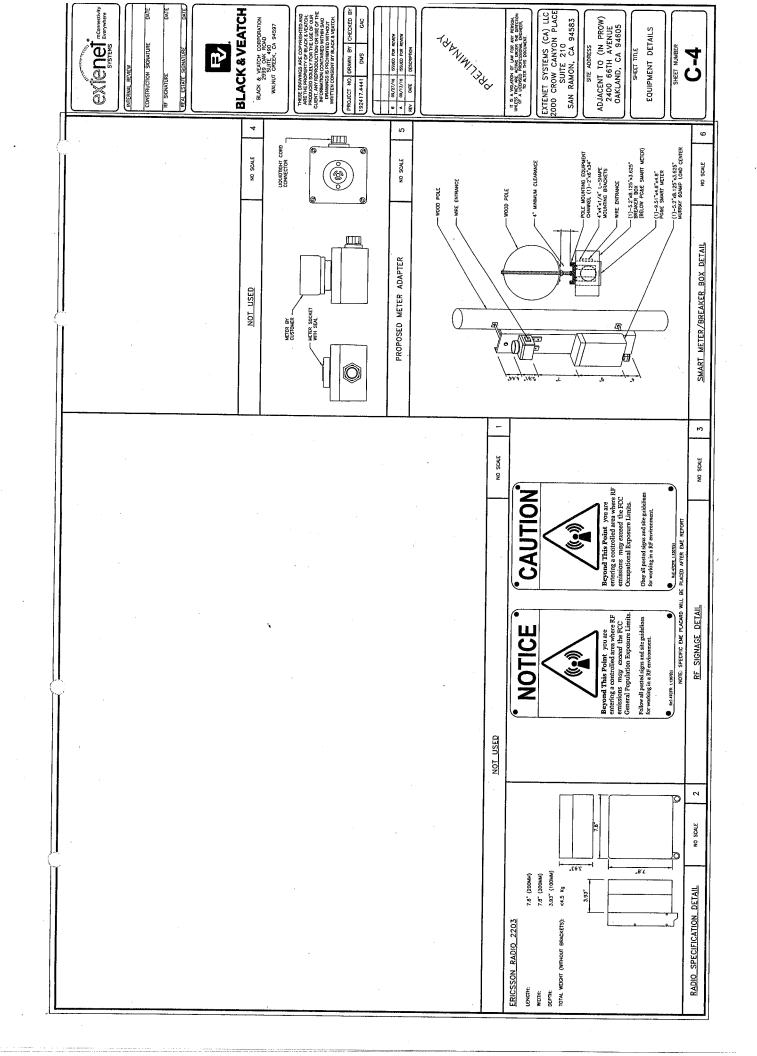
GENERAL NOTES AND LEGEND SHEET TITLE

GN-1

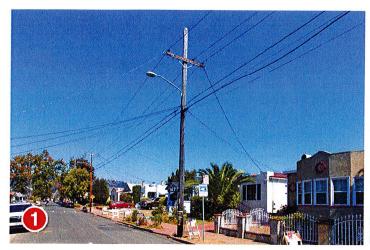


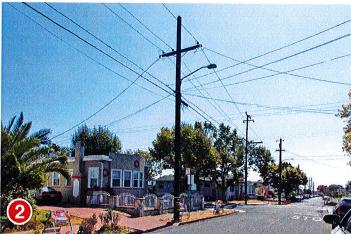






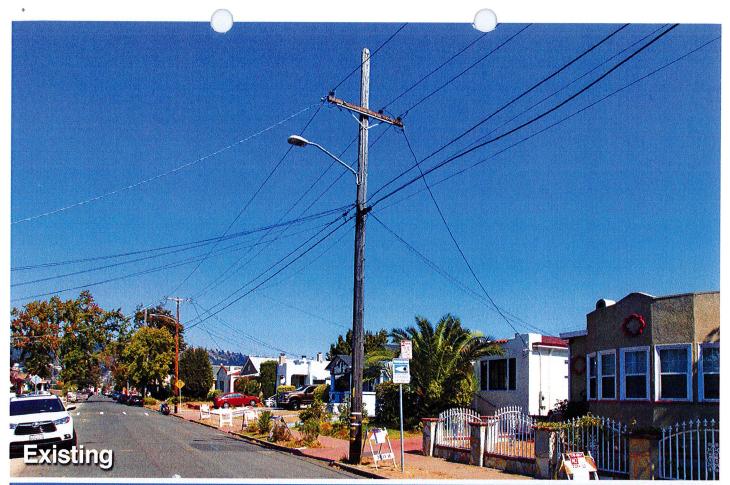
Attachment A

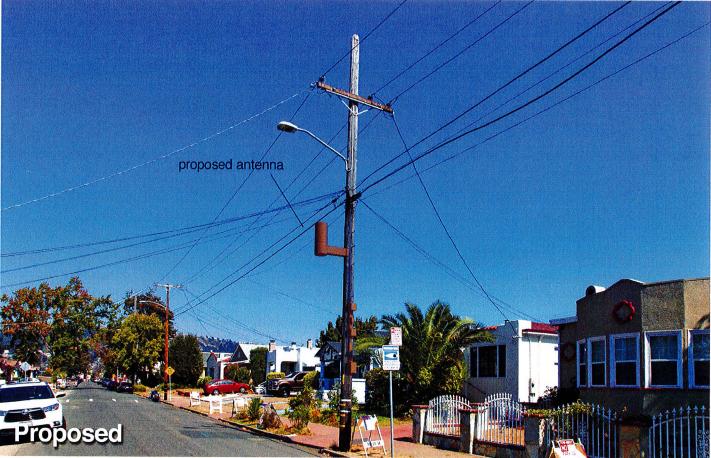




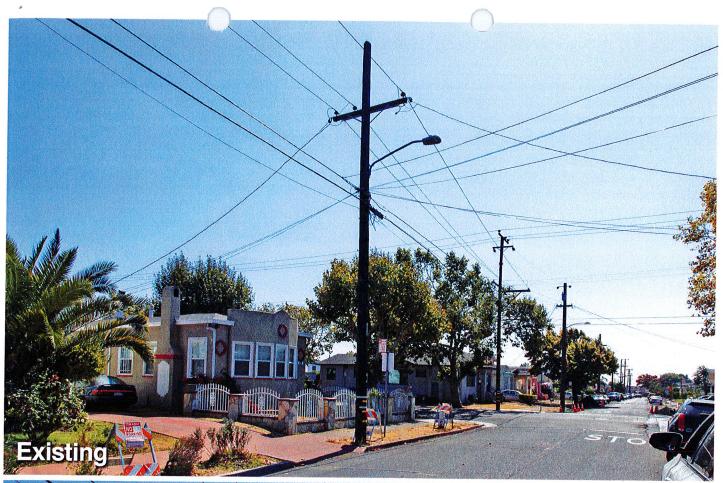


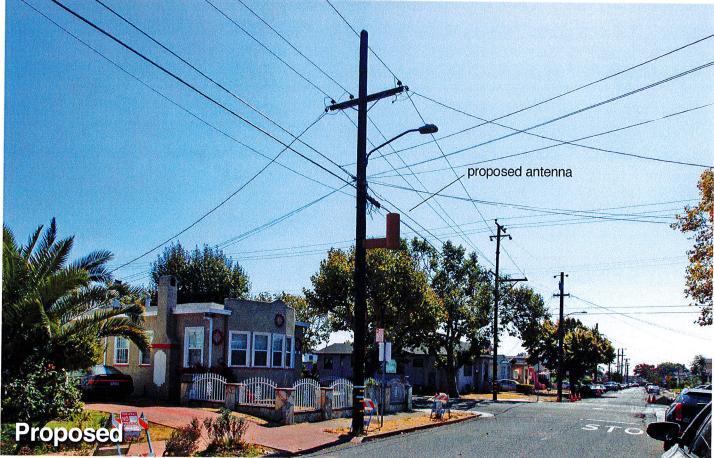












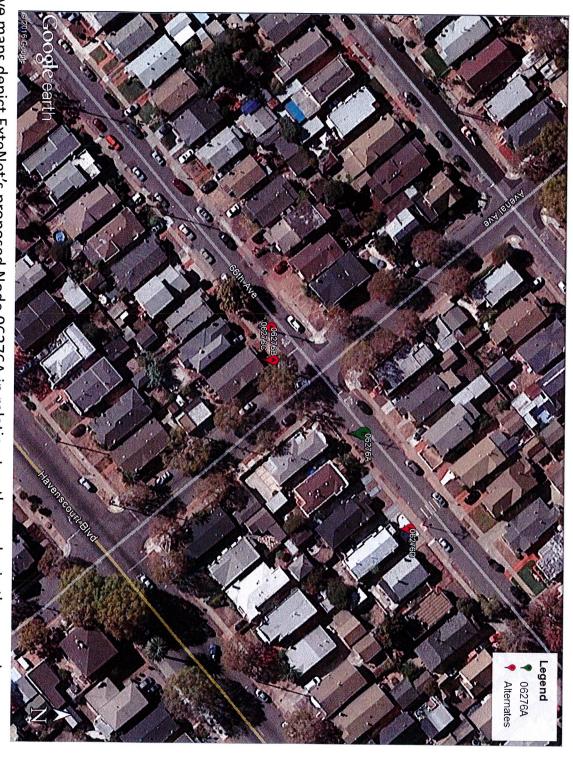






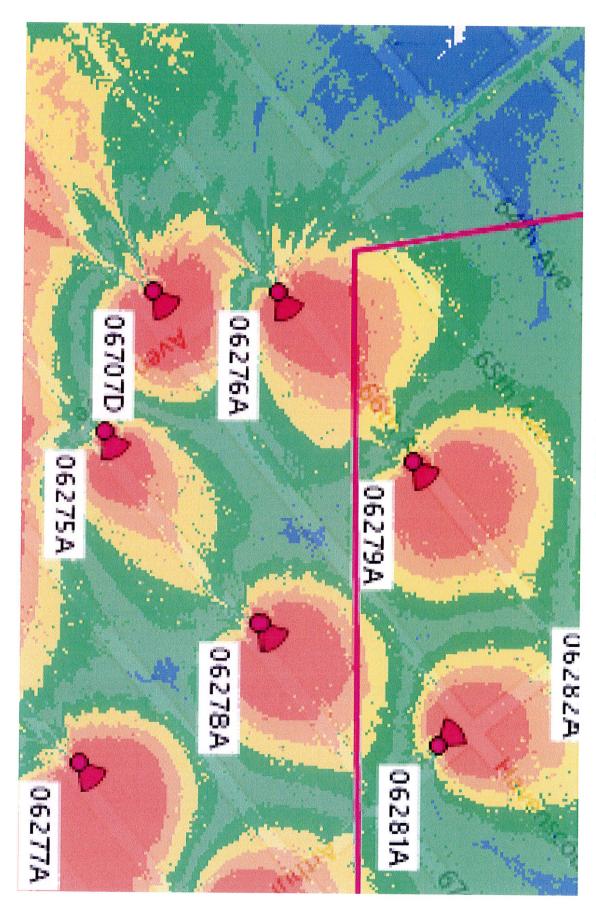
Node 06276A EXTENET OAKLAND

MAP OF ALTERNATIVE POLES EVALUATED FOR NODE 06276A



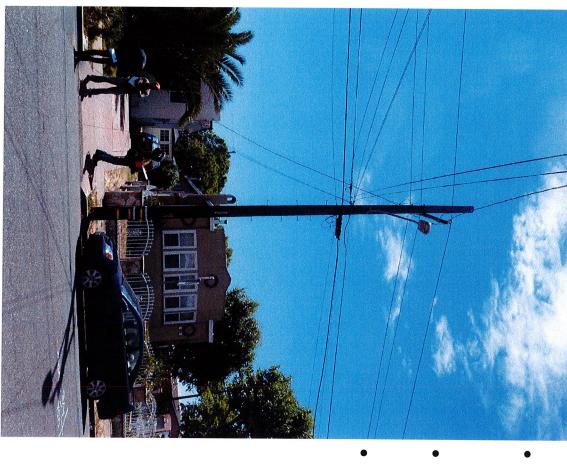
- The above maps depict ExteNet's proposed Node 06276A in relation to other poles in the area that were evaluated as possibly being viable alternative candidates.
- The following is an analysis of each of those 3 alternative locations.

PROPAGATION MAP OF NODES 06276A



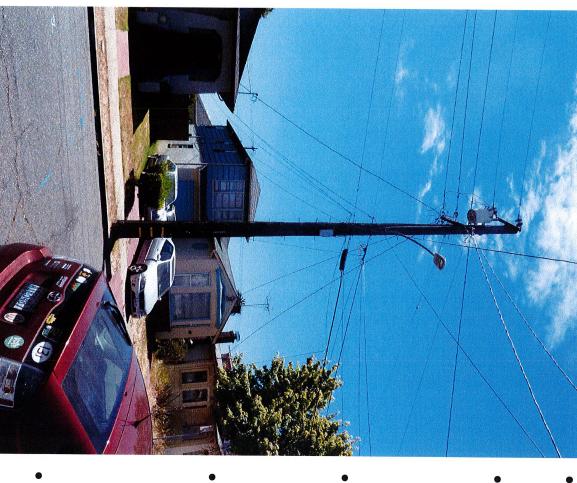
This propagation map depicts the ExteNet proposed Node 06276A in relation to surrounding proposed ExteNet small cell nodes.

06276A - PROPOSED LOCATION



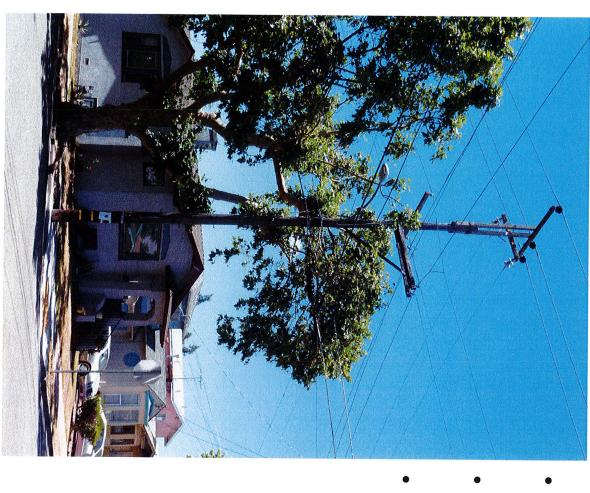
- The location for ExteNet's proposed Node 06276A is a joint utility pole located adjacent to PROW at 2400 66th Avenue (37.766457, 122.187749).
- ExteNet's objective is to provide T-Mobile 4G wireless coverage and capacity to the Oakland area.
- ExteNet evaluated this site and nearby alternatives to verify that the selected site is the least intrusive means to close T-Mobile's significant service coverage gap.

ALTERNATIVE NODE 06276B



- Node 06276B is a joint utility pole located in front of 2344 66th Avenue (37.766225, -122.188108).
- This pole is not a viable alternative candidate because cross lines and 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 ExteNet 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 06707D.

ALTERNATIVE Node 06276C



- Node 06276C is a joint utility pole at 2344 66th Oakland (on Corner side) (37.766230, -122.187999).
- This pole is not a viable alternative because the signal would be blocked by trees.
- This pole is not a viable alternative candidate because this pole is located too close to primary Node 06707D.

ALTERNATIVE NODE 06276D



- Node 06276D is a joint utility pole near 2418 66th Avenue (37.766588, 122.187426).
- This pole is not a viable alternative candidate because cross lines 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 06279A.

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 06276A is the least





Attachment B

October 19, 2016

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

Re:

Proposed ExteNet Small Cell Node Installation

Applicant:

ExteNet Systems (California) LLC

Nearest Site Address:

Public Right of Way near 2400 66th Avenue

Site ID:

NW-CA-SANFRANMC Node 06276A

<u>Latitude/Longitude:</u>

37.766457, -122.187749

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 2400 66th Avenue ("Node 06276A"). 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 38 foot 6 inche tall wood utility pole in the public right-of-way on the east side of 66th Avenue just northeast of the intersection with Avenue Avenue, at about 2400 66th Avenue. Power lines are on the pole at about 32 feet above.

ExteNet proposes to utilize existing pole measuring 38 feet 6 inches 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.

¹ 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 06276A.

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.

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Node 06276A is an integral part of the overall small cell project, and it is located in a difficult coverage area near Havenscourt Boulevard. The coverage area consists of a primarily residential neighborhood off of 66th Avenue, Avenue, 65th Avenue, Arthur Street, Havenscourt Boulevard, and surrounding areas. Node 06276A 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 06276A is the least intrusive means to close T-Mobile's significant service coverage gap in the area. Node 06276A 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 06276A 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 06276A, 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 Order² 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

² 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).



June 2, 2017

City Planner Planning Department City of Oakland 250 Frank H. Ogawa Plaza, 2nd 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 2400 66th Avenue

Site ID:

NW-CA-SANFRNMC-TMO Node 06276A

Latitude/Longitude:

37.766457, -122.187749

Planning Application: PLN16412

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(E) 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.

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Thank you.

Best Regards,

Ana Gomez

ExteNet Permitting Contractor

ExteNet Systems CA, LLC • Proposed DAS Node (Site No. 06276A) 2400 66th Avenue • 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. 06276A 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 2400 66th Avenue 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 ²	1.00 mW/cm ²
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	o) 855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency rang	e] 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. 06276A) 2400 66th Avenue • 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 27, 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 2400 66th Avenue 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 60°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/cm², which is 0.46% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building is 2.0% 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. 06276A) 2400 66th Avenue • 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 2400 66th Avenue 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, P.E.

707/996-5200

No. E-18063

Exp.6-30-2017

OF CALIFORN

October 10, 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.



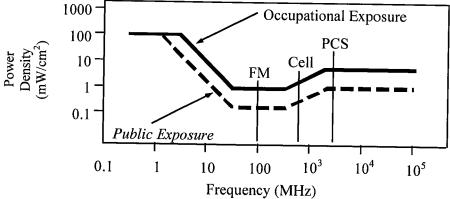
HAMMETT & EDISON, INC. CONSULTING ENGINEERS SAN FRANCISCO

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	_Electro	magnetic F	ields (f is fi	requency of	emission in	MHz)
Applicable Range (MHz)	Elec Field S	ctric trength /m)	Mag Field S	gnetic Strength /m)	Equivalen Power	t Far-Field Density /cm ²)
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/ f²
3.0 - 30	1842/ f	823.8/f	4.89/ f	2.19/f	900/ f ²	180/ f²
30 - 300	61.4	27.5	0.163	0.0729	1.0	0.2
300 – 1,500	3.54 √ f	1.59 √ f	√ 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.



HAMMETT & EDISON, INC.

CONSULTING ENGINEERS SAN FRANCISCO

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/cm²,

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/cm²,

where θ_{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

 η = 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/cm²,

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



(Chry(or(0)akaband BUREAU OF PLANNING

250 Frank H. Ogawa Plaza, Suite 21:14, Oakland, CA 94612-2031 Phone: 510-238-3911 Fax: 510-238-4730.

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Location:	The public Right of Way in from of 2400 66th Avenue on a JPA Utility Pole (See map on reverse)
Actientora Parceau Numbratan	039-3259-028-00 (nearest lot adjacent to the project site)
or o	Installation of a wireless telecommunication facility on a 38'-6" tall wooden willty pole located in the public right-of-way. The project involves installation of one (1) canister antenna 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 at a height of 10's6' and 13's 11" above ground.
Applicants	Black & Veatch for Extenet Systems
Contact Person/Phone Number:	Ana Gonezot Black & Vearon (913)458-9148
C)wner:	Pacific Gas & Electric (RCRE)
Body Sales and Body Service American Committee	DINIGOD
	Major/Design/Review to install a wireless Macro Telecommunications Facility one (h) telecommunications cantsier antenna on an existing PG&E pole located in the public right of way in a residential zone.
General Plant	Defached Umiz Residential
Zoning	RD-1 Detached Unit Residential 11.
Environmental Determination:	telecommunications as illustrated by the State CEQA (Guidelines, projects consistent with a community plan, general plan or zoning.
Historie Status	MolHistonic Record—Utility Pole
(City/Connell)District	6.46.6
Date Filed	December 2,2016
Finality of Decision	Appealable to City Council Within 101Days):
Ray Barther liftermation	Contact case planifer Jason Madanijat (510) 238-4790 or by email at imadanij@bakijandijet.com.

Your comments and questions, it any, should be directed to the Bureau of Planning, 250 Frank H. Ogava Riaza, 2nd Floor, Oakland, California 94612-2031 at or prior to the public hearing will start at middle hearing to be field on February 15, 2017, at Oakland City Hally Council Chambers, it Frank H. Ogava Flaza, Oakland, California 94612. The public hearing will start at 5.00 p.m.

It you challenge the Planning Commission decision on appeal and/or in court, you will be limited to issues placed at the public hearing of in correspondence delivered to the Bureau of Planning, at priprior to, the public hearing on this case, if you wish to be notified of the decision of any of these oases, please provide the case planner with a regular mail or important products.

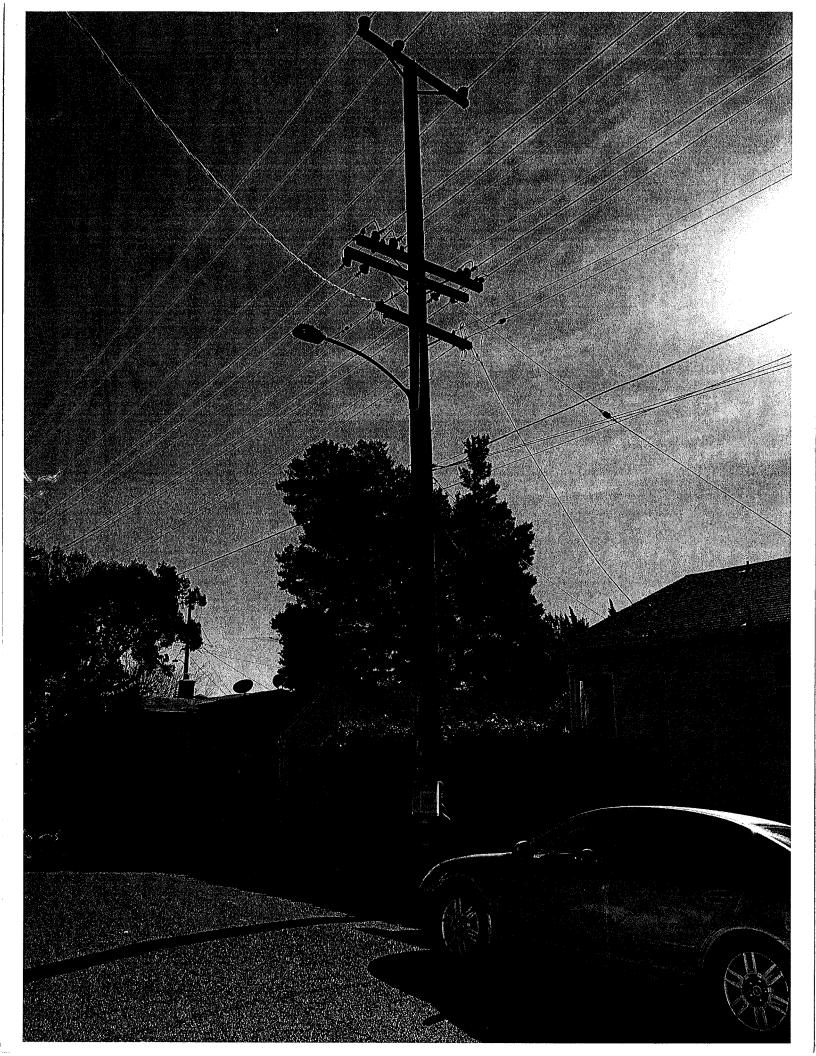
Please note that the description of the application found above is prolifinary in nature and that the project and of scription may change prior to a decision being made.

Except where noted these addession if reached by the Planning Commission on these eases, they are appealable to the City Council. Such appealance and submitted to the call of the City of the Planning Commission and by Andrew Appealable to the City Council. Such appealance of Planning and submitted to the annex at 250 from 15 reasons 214 to the attention of the City of the Angreal shall be on a form provided by the Bureau of Planning, and submitted to the same at 250 from 15 reasons 214 to the attention of the City of the Angreal shall be on a form provided by the Bureau of Planning, and submitted to the body the City of the Angreal shall be on a form provided by the Bureau of Planning, and submitted to the same at 250 from 15 reasons 214 to the attention of the City of the Angreal shall be on a form provided by the Bureau of Planning and there was cror or abuse of discretion by the City of Oakland Master Fee Schedule.

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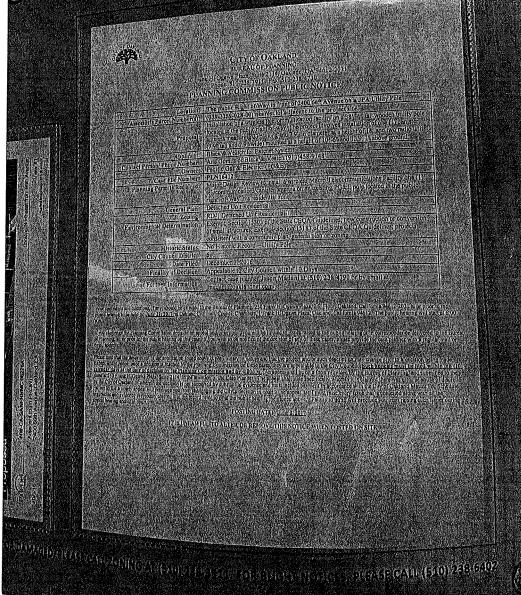
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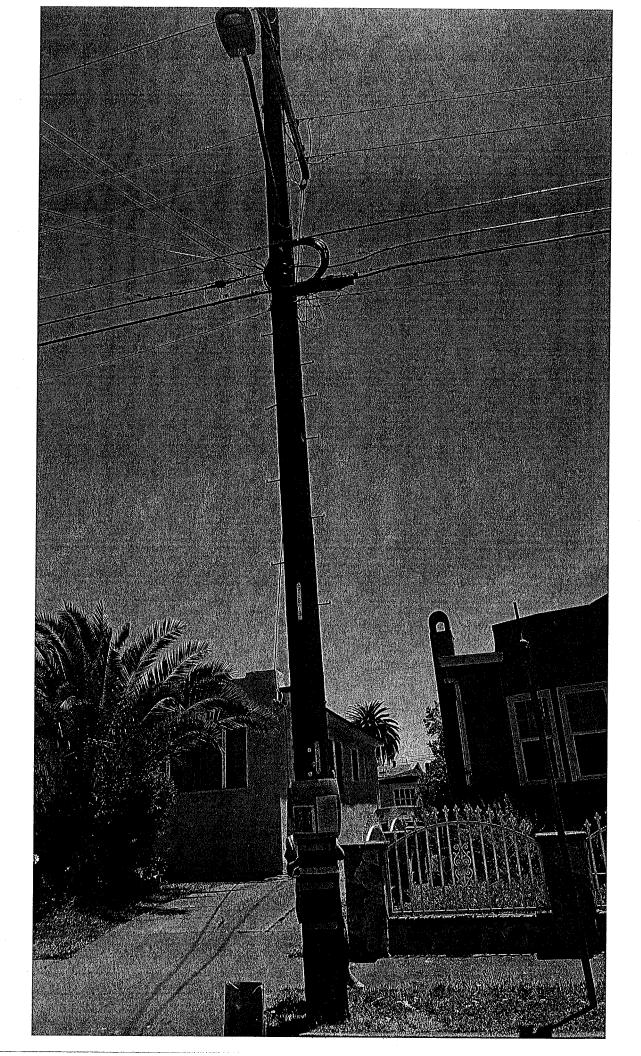
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6/2/17 Posting

FOAKILAIN







February 1, 2017

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

Re:

Public Outreach Summary

Applicant:

ExteNet Systems (California) LLC

Nearest Site Address: Public Right of Way near 2400 66th Avenue.

Site ID:

NW-CA-SANFRNMC-TMO Node 06276A

<u>Latitude/Longitude:</u> 37.766457, -122.187749

Planning Application: PLN16412

Dear City Planner,

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

Oakland Community Organizations

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

Ora Gornee By BR Extellet

Best Regards,

Ana Gomez

ExteNet Permitting Contractor



ExteNet is improving wireless service in Oakland!

January 4, 2017

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 http://www.extenetsystems.com/ or email myergovich@extenetsystems.com/

