Case File Number: DR13-031 February 20, 2013

Location: The Public Right of Way across from 7541 Claremont

Avenue. (See map on reverse)

Assessors Parcel Numbers: (048H-7672-021-00) the lot adjacent to the right of way

To install a wireless telecommunications facility (AT&T wireless) on an existing 53' high PG&E utility pole; install two panel antennas (two-feet

long and 10- inches wide) mounted approximately at 37'-2" pole

Proposal: long and 10- inches wide) mounted approximately at 37-2" pole height; an associated equipment box, one battery backup and meter

boxes within a 6' tall by 18" wide singular equipment box attached to the pole at 8' height above ground located in public right -of- way.

Applicant: New Cingular Wireless PCS,LLC./AT&T Mobility

Contact Person/ Phone Matthew Yergovich

Number: (415)596-3474

Owner: Pacific Gas & Electric.

Case File Number: DR13-031

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

Facility to on existing PG&E pole located in the public right of way in a

residential zone.

General Plan: Hillside Residential

Zoning: RH-3 Hillside Residential-3 Zone.

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

Determination: additions and alterations to an existing facility

Exempt, Section 15183 of the State CEQA Guidelines; projects

consistent with a community plan, general Plan or zoning.

Historic Status: Not a Potential Designated Historic Property; Survey rating: n/a

Service Delivery District: 2 City Council District: 1

Date Filed: 1/23/2013

Date Filed: 1/23/2013

Finality of Decision: Appealable to City Council within 10 Days

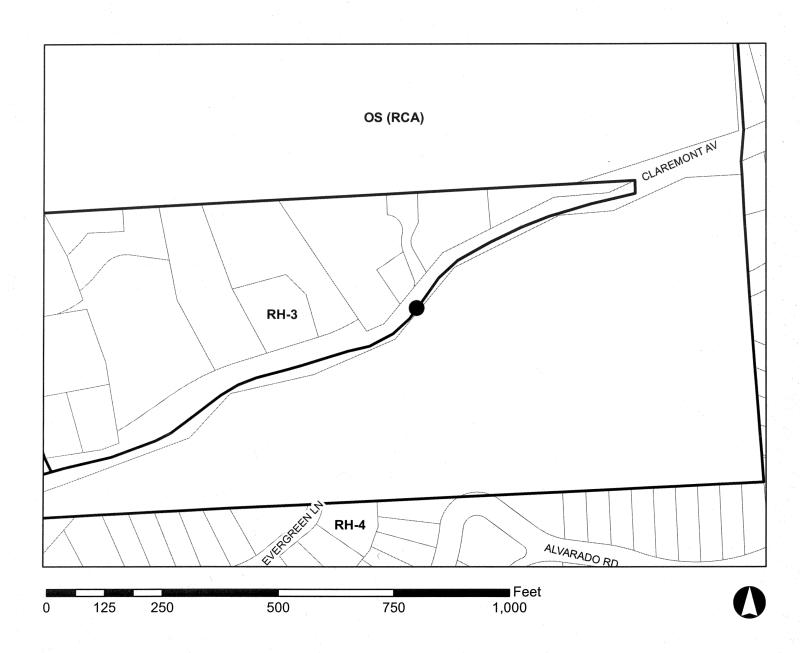
Contact case planner Jason Madani at (510) 238-4790 or

For Further Information: ismadani@oaklandnet.com

SUMMARY

The proposal is to install a wireless Telecommunications Macro Facility on an existing 53' high PG&E utility pole located in the public right -of- way. New Cingular Wireless PCS for (AT&T Mobility) is proposing to install two panel antennas mounted at a height of approximately 37'-2" on the pole and an associated equipment box, one battery backup and meter box within a 6' tall by 18" wide singular equipment box attached to the pole at a height of approximately 8' above ground. Staff believes that the proposed project as conditioned, will be designed to meet the established zoning and telecommunication regulations and recommend to support the Major Design Review application.

CITY OF OAKLAND PLANNING COMMISSION



Case File: DR13-031

Applicant: Extenet Systems

Address: Claremont Avenue (in Public Right of Way

across from 7541 Claremont Ave)

Zone: RH-3

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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.

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 FCC standards in this regard. See, 47 U.S.C. 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. 47 U.S.C.332(c)(7)(B)(ii). See 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".

PROJECT DESCRIPTION

The applicant (New Cingular Wireless PCS for AT&T Mobility) is proposing to install a wireless Telecommunications Macro Facility on an existing 53' high PG&E utility pole located in the public right – of – way. The project consists of two panel antennas mounted at a height of approximately 37'-2' on the pole and an associated equipment box, one battery backup and

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meter box within a 6' tall by 18" wide singular equipment box attached to the pole at a height of approximately 8' above ground. No portion of the telecommunication facilities will be located on the ground within City of Oakland public right-of-way. The proposed antennas and associated equipment will not be accessible to the public. (See Attachment A).

PROPERTY DESCRIPTION

The existing 53' high PG&E utility pole is located across from 7541 Claremont Avenue in the City of Oakland public right -of-a way. The area is heavily wooded with trees partially obscuring views of the pole. The terrain slopes upward to the south and east. The nearest house is across the street and westward past a ravine approximately 150-feet away from the PG&E utility pole. The site is located in a residential zone.

GENERAL PLAN ANALYSIS

The subject property is located within the Hillside Residential General Plan designation. The Hillside Residential Land Use Classification is intended "to identify, create, maintain and enhance neighborhood residential areas that are characterized by detached, single unit structures on hillside lots. The proposed telecommunication facilities will be mounted on the existing PG&E utility pole within the City of Oakland public right-of-way, and visual impacts will be mitigated since the antennas "climb through" installation are typically not the most aesthetically pleasing, but given the topography mature vegetation, and lack of close homes, will be camouflage and blend in with the existing heavily wooded area and the equipment cabinet box will be within singular box and painted to match the existing utility pole. Therefore, the proposed unmanned wireless telecommunication facility will not adversely affect and detract from the residential characteristics of the neighborhood.

ZONING ANALYSIS

The project site is located in RH-3 Residential Zone and is bounded to Open Space (OS) Zone. The intent of the RH-3 Zone is: "to create, preserve, and enhance areas for single-family estate living at very low densities in spacious environments and is typically appropriate to portions of the Oakland hill area. The proposed antennas is located approximately 150' away from nearest residential building. The project requires a Regular Design, with special findings, to allow the installation of telecommunication facilities on an existing PG&E pole located in the public right-of- way in the Residential Zone. Special findings required to approve the Design Review ensure that the facility is concealed to the extent possible. These findings are met by this proposal; while the antennas "climb through" installation are typically not the most aesthetically pleasing, but given the topography mature vegetation, and lack of close residences, they will be camouflaged with the existing mature trees. The equipment cabinets will be enclosed within a singular equipment box painted to match the utility pole.

Staff finds that the proposed application meets the applicable RH-3 Hillside Residential zoning for telecommunication facilities regulations.

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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, and Section 15183, projects consistent with a General Plan or Zoning.

KEY ISSUES AND IMPACTS

1. Regular Design Review

Section 17.136.040 and 17.128.070 of the City of Oakland Planning Code requires a Major Design Review for Macro Telecommunication facilities that are attached to utility poles in the RH-3 zone or that are located within one hundred (100) feet of the boundary of any residential zone. The required findings for Major Design Review are listed and included in staff's evaluation as part of this report.

2. Project Site

Section 17.128.110 of the City of Oakland Telecommunication Regulations indicate that new wireless facilities shall generally be located on designated properties or facilities in the following 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.
- D. Existing commercial or industrial structures in residential zones.
- E. Other non-residential uses in residential zones.
- F. Residential uses in non-residential zones.
- G. Residential uses in residential zones.
- *Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis. Since the proposed project involves locating the installation of new antennas and associated equipment cabinets on an existing utility pole, the proposed project meets: (B) quasi-public facilities on an existing PG&E utility pole within public right- of way.

3. Project Design

Section 17.128.120 of the City of Oakland Telecommunications Regulations indicates 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.

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- 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 & B ranked preference does 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. (c) site design alternatives analysis shall, at a minimum, consist of:
- a. Written evidence indicating why each higher preference design alternative can not 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).

City of Oakland Planning staff have reviewed (see attachment A alternative site analysis letter) and determined that the site selected is conforming to all other telecommunication regulation requirements. The project has met design criteria (C) since the antennas will be mounted on existing PG&E pole expansion and will be camouflage partially with the existing mature trees and equipment cabinet box and battery backup box will be within singular equipment box attached to the utility pole painted to match color of an existing PG&E utility pole to minimize potential visual impacts from public view.

4. Project Radio Frequency Emissions Standards

Section 17.128.130 of the City of Oakland Telecommunication Regulations require 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 B) 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.

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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

Staff believes that the proposed project "climb through" installation are typically not the most aesthetically pleasing, but given the topography mature vegetation, and lack of close homes, can be designed to meet the established zoning and telecommunication regulations and recommend to support the Major Design Review application.

RECOMMENDATIONS:

- 1. Affirm staff's environmental determination
- 2. Approve Design Review application DR13-031 subject to the attached findings and conditions of approval

Prepared by:

Jason Madani Planner II

Approved by:

Robert Merkamp

Acting Zoning Manager

Approved for forwarding to the

City Planning Commission

Scott Miller, Interim Director

Department of Planning Building and Neighborhood Preservation

ATTACHMENTS:

- A. Project Plans & Photo simulations & Alternative Site Analysis
- B. 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 project consists of two panel antennas (two-feet long and 10-inches wide) mounted at a height of approximately 37'-2" on the pole and an associated equipment box, one battery backup and meter box within a 6' tall by 18" wide singular equipment box attached to the pole at a height of approximately 8' above ground. The proposed antennas and equipment cabinet attached to the utility pole are partially camouflaged to blend-in with the existing surrounding heavily wooded area. 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 wooded hillside residential area. The installation will be camouflaged to blend-in with the existing surrounding wooded area to have minimal visual impacts on public views. It will protect the value of private and public investments in the area.

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 subject site is located within the Hillside Residential General Plan designation classification which is intended to create, maintain, and enhance neighborhood residential areas that are characterized by detached, single unit structures on hillside lots. The proposed unmanned wireless telecommunication facility will be located on an existing PG &E utility pole and will not adversely affect or detract from the residential characteristics of the neighborhood. Visual impacts will be minimized since the area is heavily wooded with trees partially obscuring view

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of the pole. Therefore, the Project conforms to and the General Plan and applicable design review criteria.

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 the existing PG&E pole blend with 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 PG&E utility pole and painted to match the existing pole blend with surroundings.

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 within a singular equipment box attached to the existing utility pole and painted to match pole blend with 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 equipments.

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

N/A

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

The antennas will be mounted at 37'-2" high elevation of the existing PG&E pole and will not be accessible to the public due to its location. The equipment accommodation and battery backup

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boxes will also be inside singular equipment box and attached to the pole at a height of 8' above grade.

Case File Number: DR13-031 Page 11

STANDARD CONDITIONS:

1. Approved Use

Ongoing

a) The project shall be constructed and operated in accordance with the authorized use as described in the application materials for case number DR13-031, and the plans dated December 20, 2012 and submitted on January 23rd, 2013 and as amended by the following conditions. Any additional uses or facilities other than those approved with this permit, as described in the

project description and the approved plans, will require a separate application and approval. Any deviation from the approved drawings, Conditions of Approval or use shall required prior written approval from the Director of City Planning or designee.

b) This action by the City Planning Commission ("this Approval") includes the approvals set forth below. This Approval includes: To install a wireless telecommunications facility (AT&T wireless) on an existing 53' high PG&E utility pole; install two panel antennas (two-feet long and 10- inches wide) mounted approximately at 37'-2" pole height; an associated equipment box, one battery backup and meter boxes within a 6' tall by 18" wide singular equipment box attached to the pole at 8' height above ground.

2. Effective Date, Expiration, Extensions and Extinguishment

Ongoing

Unless a different termination date is prescribed, this Approval shall expire **two calendar years** from the approval date, 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 permit, 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 for this project may invalidate this Approval if the said extension period has also expired.

3. Scope of This Approval; Major and Minor Changes

Ongoing

The project is approved pursuant to the **Oakland Planning Code** only. Minor changes to approved plans may be approved administratively by the Director of City Planning or designee. Major changes to the approved plans shall be reviewed by the Director of City Planning or designee to determine whether such changes require submittal and approval of a revision to the approved project by the approving body or a new, completely independent permit.

4. Conformance with other Requirements

Prior to issuance of a demolition, grading, P-job, or other construction related permit

- a) The project applicant shall comply with all other applicable federal, state, regional and/or local codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Building Services Division, the City's Fire Marshal, and the City's Public Works Agency.
- b) The applicant shall submit approved building plans for project-specific needs related to fire protection to the Fire Services Division for review and approval, including, but not

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c) limited to automatic extinguishing systems, water supply improvements and hydrants, fire department access, and vegetation management for preventing fires and soil erosion.

5. Conformance to Approved Plans; Modification of Conditions or Revocation Ongoing

- a) Site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60-90 days of approval, unless an earlier date is specified elsewhere.
- b) The City of Oakland reserves the right at any time during construction to require certification by a licensed professional that the as-built project conforms to all applicable zoning requirements, including but not limited to approved maximum heights and minimum setbacks. Failure to construct the project in accordance with approved plans may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension or other corrective action.
- c) Violation of any term, conditions or project description relating to the Approvals 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 Approvals 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.

6. Signed Copy of the Conditions

With submittal of a demolition, grading, and building permit

A copy of the approval letter and conditions shall be signed by the property owner, notarized, and submitted with each set of permit plans to the appropriate City agency for this project.

7. Indemnification

- a) *Ongoing* The project applicant shall defend (with counsel reasonably acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the City of Oakland Redevelopment Agency, the Oakland City Planning Commission and their respective agents, officers, and employees (hereafter collectively called the City) from any claim, action, or proceeding (including legal costs and attorney's fees) against the City to attack, set aside, void or annul this Approval, or any related approval by the City. The City shall promptly notify the project applicant of any claim, action or proceeding and the City shall cooperate fully in such defense. The City may elect, in its sole discretion, to participate in the defense of said claim, action, or proceeding. The project applicant shall reimburse the City for its reasonable legal costs and attorney's fees.
- b) Within ten (10) calendar days of the filing of a claim, action or proceeding to attack, set aside, void, or annul this Approval, or any related approval by the City, the project applicant shall execute a Letter Agreement with the City, acceptable to the Office of the

Case File Number: DR13-031 Page 13

City Attorney, which memorializes the above obligations and this condition of approval. This condition/obligation shall survive termination, extinguishment, or invalidation of this, or any related approval. Failure to timely execute the Letter Agreement does not relieve the project applicant of any of the obligations contained in 7(a) above, or other conditions of approval.

8. Compliance with Conditions of Approval

Ongoing

The project applicant shall be responsible for compliance with the recommendations in any submitted and approved technical report and all the Conditions of Approval set forth below at its sole cost and expense, and subject to review and approval of the City of Oakland.

9. Severability

Ongoing

Approval of the project would not have been granted but for the applicability and validity of each and every one of the specified conditions, and if any 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. 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

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consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

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

PROJECT SPECIFIC CONDTIONS:

12. 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.

13. 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.

14. Equipment cabinets

Prior to the final building permit

The applicant shall submit revised elevations showing associated equipment cabinet are concealed within singular equipment box painted to match utility pole, to the Oakland Planning Department for review and approval.

ATTACHMENT A



PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

OAKHILLS AT&T SOUTH NETWORK NODE 037B

NEW CINGULAR WIRELESS PCS, LLC 4430 ROSEWOOD DR, BLDG 3 PLEASANTON, CA 94588-3050

at&t

ACROSS FROM 7541 CLAREMONT AVE OAKLAND, CA 94705

CURRENT ISSUE DATE:

PROJECT INFORMATION: ==

12/20/12

ISSUED FOR:

70NING

BY: DATE: DESCRIPTION: REV: ACI 12/20/12 POLE INFO CORRECTED

DATE =PLANS PREPARED BY: =



DESCRIPTION

CONSTRUCTED BY:



3030 Warrenville Rd, Suite 340 Lisle, IL 60532 www.extenet.com

SEAL OF APPROVAL: =

SHEET TITLE:

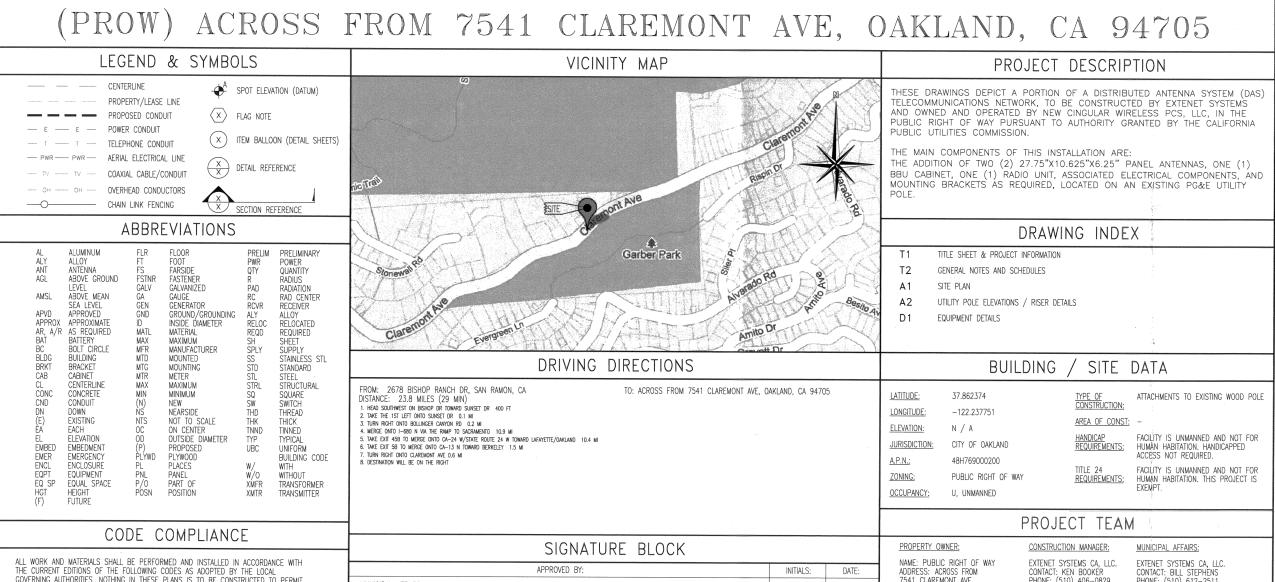
TITLE SHEET PROJECT INFORMATION

SHEET NUMBER: =

=REVISION:

12/20/12

OAKHILLS AT&T SOUTH NETWORK 0AKS-037B



GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 1. CALIFORNIA BUILDING CODE CBC-2010
- 2. CALIFORNIA ADMINISTRATIVE CODE.
- (INCL. TITLES 24 & 25) 2010.
- 4. BUILDING OFFICIALS AND CODE
- 8 LOCAL BUILDING CODE(S)
- 3. ANSI/ EIA-222-F LIFE SAFETY CODE NFPA. 9. CITY AND/OR COUNTY ORDINANCES
- 6. CALIFORNIA MECHANICAL CODE CMC-2010. CALIFORNIA PLUMBING CODE CPC 2010.
- MUST COMPLY TO LATEST CALIFORNIA FIRE CODE. (AND LATEST MUNICIPAL FIRE CODE). 5. CALIFORNIA ELECTRICAL CODE CEC-2010. 11. CALIFORNIA GENERAL ORDER 95 AND 128.

| APPROVED BY: | INITIALS: | DATE: | | | | |
|-----------------------|-----------|-------|--|--|--|--|
| MUNICIPAL AFFAIRS: | | | | | | |
| RF MANAGER: | | | | | | |
| CONSTRUCTION MANAGER: | | | | | | |
| PROJECT MANAGER: | | | | | | |
| APPLICANT AGENT: | | | | | | |
| APPLICANT: | | | | | | |

ADDRESS: ACROSS FROM 7541 CLAREMONT AVE OAKLAND, CA 94705

APPLICANT:

NEW CINGULAR WIRELESS PCS, LLC 4430 ROSEWOOD DR, BLDG 3 PLEASANTON, CA 94588-3050 CONTACT: VANI MULLER PHONE: (510) 258-1703

CONTACT: KEN BOOKER PHONE: (510) 406-0829

APPLICANT AGENT:

MATTHEW YERGOVICH EXTENET SYSTEMS REAL ESTATE CONTRACTOR FOR AT&T MOBILITY CONTACT: GARY GETCHEL 1826 WERSTER ST SAN FRANCISCO, CA 94115 PHONE: (415) 596-3474 PHONE: (510) 292-8918 EMAIL: myergo@gmail.com

CONTACT: BILL STEPHENS PHONE: (510) 612–2511

ARCHITECT:

AERO COMMUNICATIONS, INC. 5711 RESEARCH DRIVE

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONLIMENTS AND OR VERTICAL CONTROL BENCHMARKS MUICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT.
- 2. IMPORTANT NOTICE: SECTION 4215 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-227-2600, TWO DAYS BEFORE YOU DIG.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN A 1' MINIMUM VERTICAL CLEARANCE.
- 4. IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVE PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND PER THE APPROVED PLANS.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION
- 6. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND FIELD ENGINEERING DIVISION.
- 7. MANHOLES OR COVERS SHALL BE LABELED EXTENET.
- 8. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE ENGISION AND SEDIMENT POLLUTION.

ANY REMOVED OR DAMAGED STRIPING AND MARKINGS SHALL BE REPLACED IN KIND AS PER CALTRANS STANDARDS AND AT PERMITTEE'S EXPENSE.



Call before you dig 811 / 1-800-227-2600 www.usanorth.org

SPECIAL NOTES

- INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL:
 ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF
 CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE
 REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS.
 THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD EXTENST, REPRESENTATIVES, AND
 ENSINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE
 OF THE WORK ON THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO
- 3. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF G095,128 AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS
- 4. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES AS SHOWN HERON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR OF ALL UTILITY PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR N
- 5. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- 6. THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS
- 7. THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 30 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- 8. THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTERS AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY OR STATE ENGINEER.
- 9. ALL A.C AND/OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY OR
- 10. ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- . THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICANT PERMIT FORMS ALONG TH THE REQUIRED LIABILITY INSURANCE FORMS. CLEARLY DEMONSTRATING THAT EXTENET, THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE IN THE AMOUNT OF \$1,000,000,000 FOR THIS
- VALUES PEDESTALS CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE FITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER, ANY AND ALL DEVIATIONS FROM THE SPECIFIED OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF.
- 13. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN INCLUDING SEWER LATERALS & WAIER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
- 14. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITY.
- 15. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE, WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONIAL AND VERTICALLY. PRIOR TO CONSTRUCTION, IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS. THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES

TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- 6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- E CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OF RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- INCORPORATED HERON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO TH SATISFACTION OF THE RESIDENT ENGINEER.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- 15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF AN, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURE AND OTHER RELATED CONSTRUCTION ACTIVITIES.

- ALL REQUIREMENTS OF THE CITY, COUNTY AND STATE "STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWIPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- 2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS
- 3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES. THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OF DIRES.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON
- 5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- 9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES,
- 11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY N RAIN IS IMMINIENT.

ROW UTILITY POLE CONSTRUCTION NOTES:

GENERAL NOTES

ROW GROUND CONSTRUCTION NOTES:

- 1. 12U/24O POWER REQUIRED FOR 3-WIRE SERVICE.
 2. GC TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
 4. CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600.
 5. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
 6. ALL EQUIPMENT TO BE BONDED.
 6. MLE CRUIPMENT TO BE BONDED.
 7. METERING CABINET REQUIRES X CLEARANCE AS A CONTROL OF THE POLICE AND ALL STANDARD AN

- 7. METERING CABINET REQUIRES 3' CLEARANCE AT DOOR OPENING. 8. CAULK CABINET BASE AT PAD.

STANDARD GROUNDING NOTES:

- GROUND TESTED AT 5 OHMS OR LESS.
- 5/8"x8' ROD, CAD WELD BELOW GRADE
- #6 GROUND AND BOND WIRE.
 WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END
 GROUNDS 3' FROM POLE.
- 6. PLACE 3 #10GA WIRES FROM BREAKER TO METER BOX.

STANDARD CONDUIT NOTES:

STANDARD TRENCHING NOTES:

- FOR UNDERGROUND USE SCHEDULE 40.
 FOR RISERS USE SCHEDULE 80.
 PLACE 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP
- 10" THEN CONVERT TO SCHEDULE 80.

 4. CONVERT 4" CARRIER CONDUIT TO 3" AT BASE OF POLE.

 5. GC TO STUB UP POLE 10" w/3" POWER CONDUIT, POWER CO. TO CONVERT FROM 3" SCH. 80 TO 2" SCH. 80 FROM TOP OF STUB UP.

6. ALL CONDUIT WILL BE MAN DRILLED AND EQUIPPED WITH 3/8" PULL ROPE.

- 1. MAINTAIN 40" MINIMUM COVER FOR ELECTRICAL CONDUIT.
- MAINTAIN 30" MINIMUM COVER FOR ELECTRICAL CONDUIT.

 MAINTAIN 30" MINIMUM COVER FOR COMMUNICATIONS CONDUIT.

 SAND SHADING MINIMUM 1" UNDER CONDUITS, AND 6" COVERING ON TOP REQUIRED.

- REQUIRED.

 A. ALL ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED.

 IN STREET SLURRY 10 GRADE AND MILL DOWN 1-1/2" FOR AC CAP.

 IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.

 PLACE WARNING TAPE IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND RING.

- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- 4. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE (12:00).

 5. 90' SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).

 6. USE CABLE CLAMPS TO SECURE CABLE TO ARMS. PLACE 2" CARRIER CABLE ID TAGS ON BOTH SIDES OF ARMS.

 7. USE 90' CONNECTOR AT CABLE CONNECTION TO ANTENNAS.

 8. PLACE GPS ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6' FROM TRANSMIT MATENNA MINIMUM 6' FROM TRANSMIT MATENNA.

- MINIMUM 6' FROM TRANSMIT ANTENNA, WHICH IS 24" AWAY FROM CENTER OF POLE. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

ANTENNA/WOOD ARM AREA 42.57 SQ. FT. TOP GRADE BOTTOM GRAD 30'-8' METER/BREAKER AREA TOTAL 14.62 SQ. FT. TOP GRADE BOTTOM GRADE 8'-0" BATTERY BACK-UP AREA TOTAL 40.5 SQ. FT. TOP GRADE 18'-9" BOTTOM GRADE 16'-6" 50,77 SQ, FT. TOP GRADE 15'-9" BOTTOM GRADE 11'-7" PRISM DECK (FUT.) AREA TOTAL TOP GRADE BOTTOM GRADE COAX RISER SIZE COAX RISER TOP GRADE 32'-0" COAX RISER BTM GRADE PWR RISER SIZE PWR RISER TOP GRADE PWR RISER BTM GRADE 8'-0'

WIND LOADING INFORMATION

| ANTENNA SECTOR | AZIMUTH | ANTENNA MAKE / MODEL | COAXIAL CABLE LENGTH | CABLES PER SECTOR | CABLE |
|-------------------|---------|-------------------------|----------------------------|-------------------------|-------|
| SECTOR ALPHA | 54* | KATHREIN 840–10525 | 23'/3' | 2/4 | 1/2" |
| SECTOR BETA | 240* | KATHREIN 840–10525 | 23'/3' | 2/4 | 1/2" |
| SECTOR GAMMA | | | | | |



NEW CINGULAR WIRELESS PCS, LLC 4430 ROSEWOOD DR, BLDG 3 PLEASANTON, CA 94588-3050

OAKHILLS AT&I SOUTH NETWORK NODE 037B

ACROSS FROM 7541 CLAREMONT AVE OAKLAND CA 94705

CURRENT ISSUE DATE:

=PROJECT_INFORMATION:

12/20/12

ISSUED FOR: =

ZONING

= BY: = DATE: = DESCRIPTION: ==== REV: 12/20/12 POLE INFO CORRECTED 12/01/12 DATE DESCRIPTION REV

PLANS PREPARED BY:



CONSTRUCTED BY:

NET YOUR NETWOR

3030 Warrenville Rd, Suite 340 Lisle, IL 60532 www.extenet.com

SEAL OF APPROVAL: =

SHEET TITLE: =

GENERAL NOTES ANDSCHEDULES

SHEET NUMBER: == REVISION:

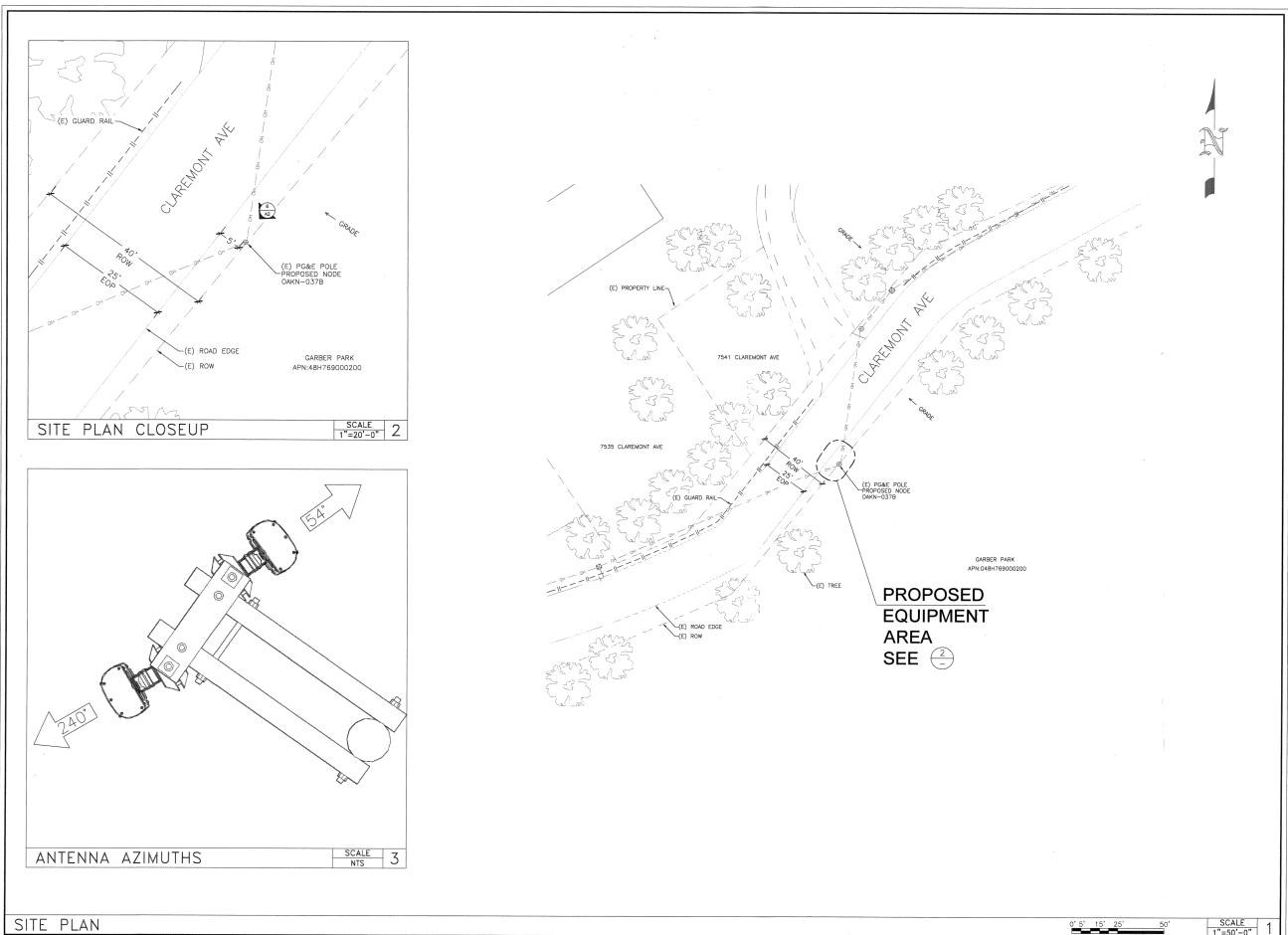
ROW CONSTRUCTION GENERAL NOTES

SCALE 3 LOADING AND ANTENNA CABLE SCHEDULES

SCALE

NTS

12/20/12





OAKHILLS AT&T SOUTH NETWORK NODE 037B

ACROSS FROM 7541 CLAREMONT AVE OAKLAND, CA 94705

CURRENT ISSUE DATE: =

12/20/12

SSUED FOR:

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BY: = DATE: = DESCRIPTION: ==== REV: ACI 12/01/12 DATE DESCRIPTION

PLANS PREPARED BY:



CONSTRUCTED BY:=

3030 Warrenville Rd, Suite 340 Lisle, IL 60532 www.extenet.com

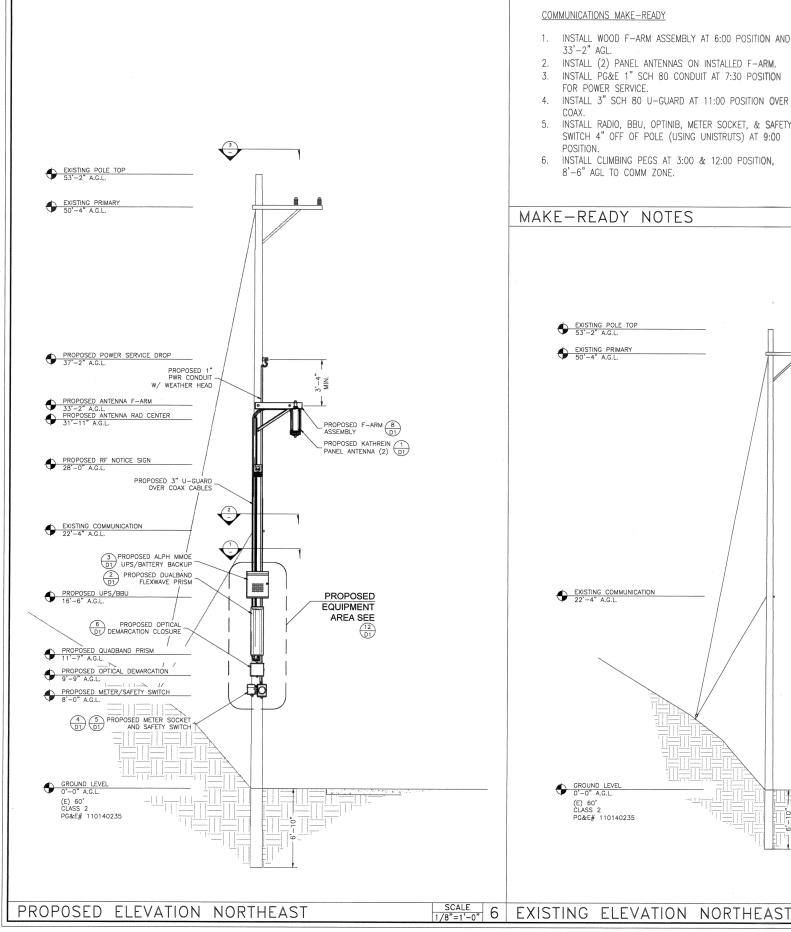
SEAL OF APPROVAL:

SHEET TITLE:

SITE PLAN

SHEET NUMBER: == REVISION: ==

12/20/12

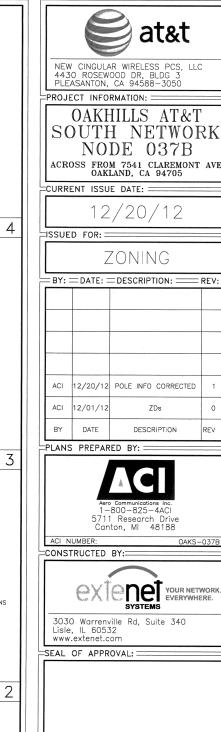


COMMUNICATIONS MAKE-READY

- 1. INSTALL WOOD F-ARM ASSEMBLY AT 6:00 POSITION AND 1. INSTALL POWER SERVICE DROP. 33'-2" AGL.
- 2. INSTALL (2) PANEL ANTENNAS ON INSTALLED F-ARM.
- 3. INSTALL PG&E 1" SCH 80 CONDUIT AT 7:30 POSITION FOR POWER SERVICE.
- 4. INSTALL 3" SCH 80 U-GUARD AT 11:00 POSITION OVER
- INSTALL RADIO, BBU, OPTINIB, METER SOCKET, & SAFETY SWITCH 4" OFF OF POLE (USING UNISTRUTS) AT 9:00
- 6. INSTALL CLIMBING PEGS AT 3:00 & 12:00 POSITION, 8'-6" AGL TO COMM ZONE.

POWER MAKE-READY

- 2. INSTALL PG&E WEATHER HEAD AND 1" SCH 80 CONDUIT AT 7:30 POSITION FOR POWER SERVICE.
- 3. PROVIDE 120/240 3-WIRE SINGLE PHASE, 100 AMP SERVICE TO 1" PG&E CONDUIT AT 7:30 POSITION TO METER SOCKET FROM SERVICE DROP 37'-2" AGL.



=SHEET TITLE: =

SHEET NUMBER:

CLAREMONT AVE

SCALE 3/32"=1'-0" 5 EQUIP. SPACE PLAN VIEW

ELEVATIONS

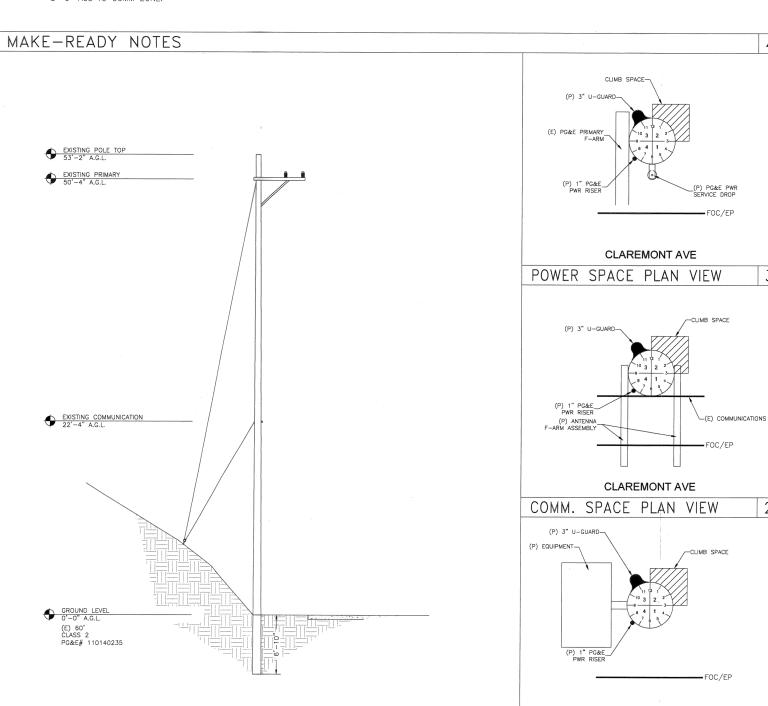
RISER DETAILS

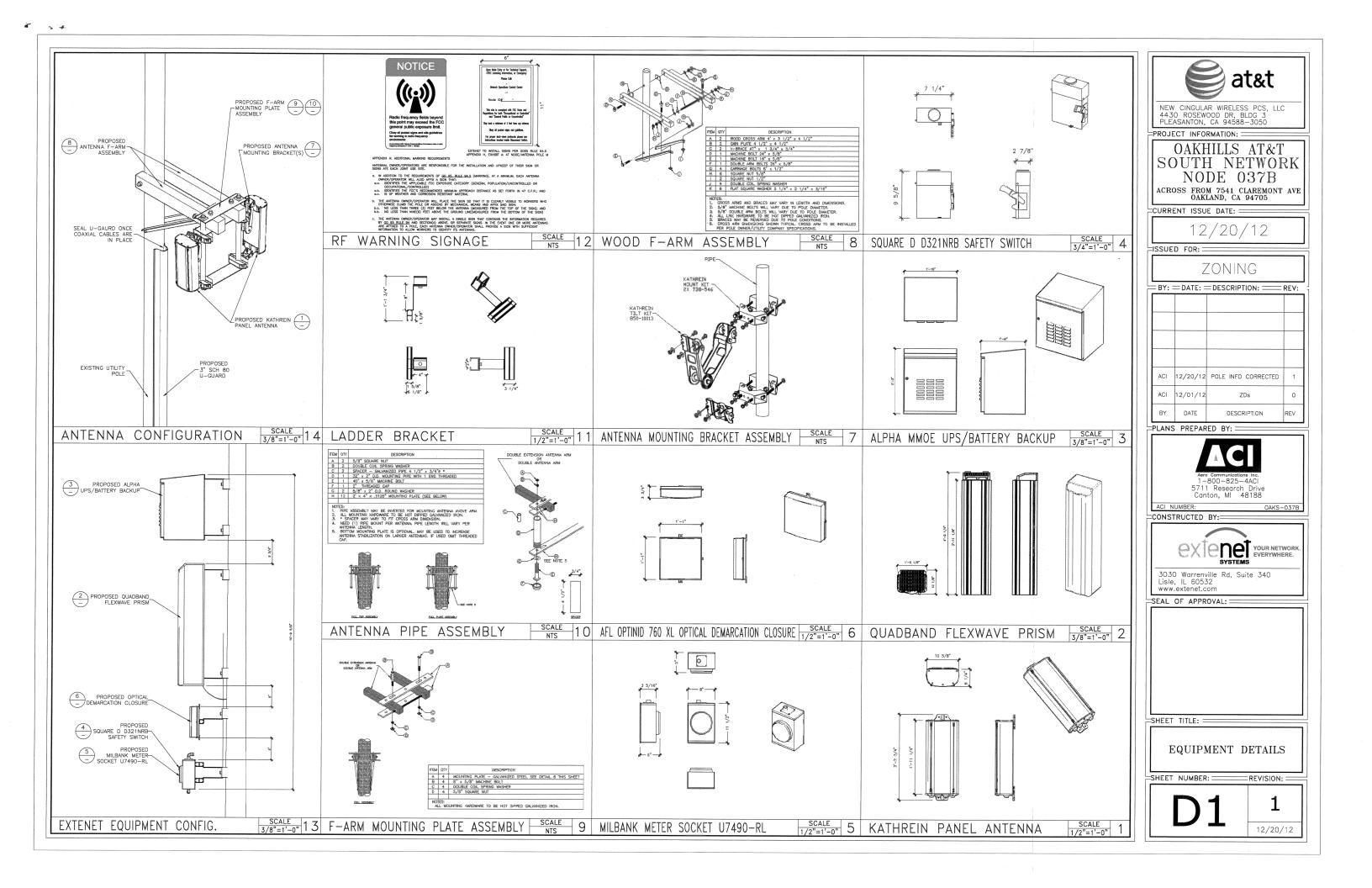
= REVISION:

12/20/12

at&t

DESCRIPTION



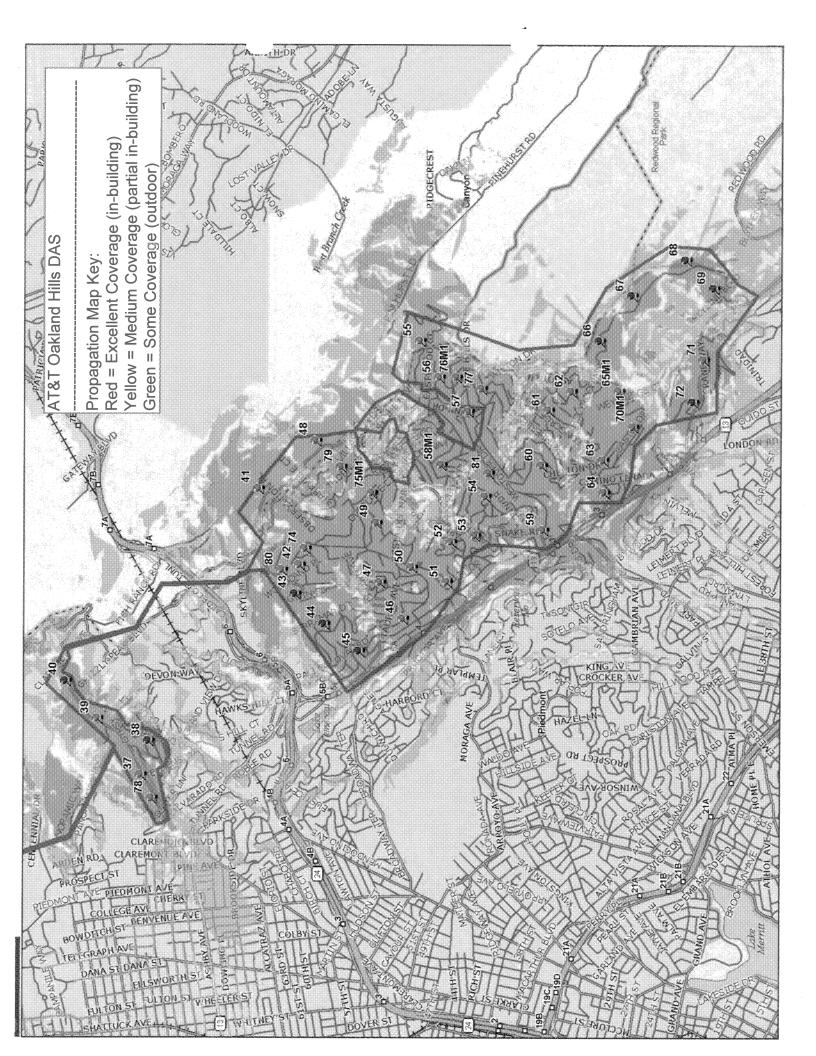


Existing AT&T Wireless view from Claremont Avenue looking northeast at site 7541 Claremont Avenue, Oakland , CA Oakhills AT&T South Network Node 037B

Proposed









January 18, 2013

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

Re:

Alternative Site Analysis for Proposed AT&T Mobility DAS Node Installation

Applicant:

New Cingular Wireless PCS, LLC (d/b/a AT&T Mobility)

Site Address:

Public Right of Way near 7541 Claremont Ave.

Site ID:

OAKS-037B

Latitude/Longitude:

37.862374, -122.237751

Joint Utility Pole #:

110140235

Dear Planning Department,

This letter is to explain why a distributed antenna system ("DAS") node is being proposed at the above-referenced utility pole and to explain the alternative sites that were evaluated in making this determination. The site is located in a difficult coverage area because of its winding roads, hilly terrain and plentiful trees. The coverage area consists of a stretch of Claremont Avenue between about Alvarado Road and Stonewall Road, and the surrounding areas. The proposed site will cover transient traffic along the road and the surrounding area.

This DAS node is the least intrusive means to provide coverage because it uses existing utility infrastructure, the smallest equipment and the lowest emissions possible. The DAS node emissions are also much lower than the typical macro-site and thus appropriate for the area. Deploying a DAS node onto this pole utilizes an inconspicuous location amidst the trees and out of the way from any residences or views. By co-locating antennas and equipment onto this existing pole, AT&T does not need to propose any new infrastructure in the area. Furthermore, this two-antenna installation onto existing infrastructure is miniature in size compared to the typical 12-antenna macro site and therefore more appropriate for the surrounding rural residential area. The site should be barely noticeable as a co-located utility amidst the backdrop of trees and terrain.

Alternative sites were considered at other utility poles along Claremont Avenue and at the water tank to the northwest but none of these sites are as desirable from a coverage perspective or from an aesthetics perspective. Tank-mounted antennas are prohibited so new infrastructure would need to be erected and ground-space leased in order to deploy a site at the water tank. This new infrastructure would require unnecessary visual impact, would result in a new monopole very near several residential back yards, and would not be able to provide coverage east along Claremont Avenue as well as the proposed site. The pole immediately south on Claremont from the proposed pole was evaluated but installing a facility here would result in antennas being placed above the tree line, thus blocking the signal. The next pole south (two poles south from the proposed site) is very exposed to view, lacking any tree concealment and thus more visually intrusive. Also these poles are too close to another AT&T proposed DAS node on Claremont that will cover that region. There are two adjacent utility poles to the north that were also considered, but these are above the tree line thus blocking coverage to the roadway below, and these poles are located much nearer to a residential driveway. The proposed location is equally distanced from nodes to be placed in surrounding hard-to-reach areas so that coverage can be evenly distributed amidst the Oakland Hills. For these reasons, our proposal is the best out of all the alternatives.

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

Best Regards,

Matthew S. Yergovich \\
ExteNet Real Estate Contractor

For AT&T Mobility

AT&T Mobility
C/O Yergovich and Associates, LLC
ExteNet Systems Real Estate Contractor
1826 Webster Street - San Francisco, CA 94115
(415) 596-3474 • myergo@gmail.com

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of New Cingular Wireless, LLC, a wireless telecommunications service provider, to evaluate 32 distributed antenna system (DAS) nodes proposed to be located in the Oakland Hills area of Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Executive Summary

New Cingular Wireless proposes to install two directional panel antennas on 32 existing or proposed utility poles sited in the Oakland Hills area of 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 mW/cm^2 | 1.00 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 ² 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. 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. Along with the low power of such facilities, 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 New Cingular Wireless, that carrier proposes to install 32 new nodes, listed in Table 1 below, in the Oakland Hills area of Oakland. Each node would consist of two Kathrein Model 840-10525 directional panel antennas installed on a new or existing utility pole to be sited in a public right-of-way. The antennas would be mounted with no downtilt at an effective height of about 35 feet above ground and would be oriented in different directions, as shown in Table 1. The maximum effective radiated power in any direction would be 219 watts, representing simultaneous operation by New Cingular Wireless at 104 watts for PCS, 61 watts for cellular, and 54 watts for 700 MHz service. There are reported no other wireless telecommunications base stations at the site or nearby.



| Node# | Approximate Address | Ante Orient | | | |
|--|--|----------------|-------|--|--|
| Node 35 | Grizzly Peak Boulevard and Golf Course Drive | 116°T | 321°T | | |
| Node 36 | 2501 Grizzly Peak Boulevard | 65°T | 248°T | | |
| Node 37 | 7541 Claremont Avenue | 54°T | 240°T | | |
| Node 39 | 8071 Claremont Avenue | 36°T | 215°T | | |
| Node 41 | Grizzly Peak Boulevard and Skyline Boulevard | 149°T | 283°T | | |
| Node 42 | 6616 Pine Needle Drive | 73°T | 344°T | | |
| Node 46 | 1265 Mountain Boulevard | 30°T | 105°T | | |
| Node 47 | 5925 Sherwood Drive | 13°T | 285°T | | |
| Node 48 | Skyline Boulevard and Elverton Drive | 153°T | 325°T | | |
| Node 49 | 1732 Indian Way | 24°T | 306°T | | |
| Node 50 | 5612 Merriewood Drive | 46°T | 110°T | | |
| Node 51 | 5658 Grisborne Avenue | 87°T | 355°T | | |
| Node 52 | 5826 Mendoza Drive | 61°T | 121°T | | |
| Node 53 | 6133 Snake Road | 43°T | 119°T | | |
| Node 54 | 2052 Tampa Avenue | 0°T | 100°T | | |
| Node 55 | 8211 Skyline Boulevard | 98°T | 158°T | | |
| Node 56 | 6837 Aitken Drive | 65°T | 316°T | | |
| Node 57 | 6415 Westover Drive | 137°T | 302°T | | |
| Node 58 | 6828 Saroni Drive | 20°T | 100°T | | |
| Node 59 | 2189 Andrews Street | 37°T | 7°88 | | |
| Node 60 | 5879 Scarborough Drive | 33°T | 81°T | | |
| Node 62 | 2997 Holyrood Drive | 21°T | 88°T | | |
| Node 63 | 2679 Mountain Gate Way | 0°T | 80°T | | |
| Node 64 | Mountain Boulevard and Ascot Drive | 29°T | 110°T | | |
| Node 70 | 75 Castle Park Way | 0°T | 70°T | | |
| Node 71 | 3343 Crane Way | 72°T | 355°T | | |
| Node 74 | 6925 Pinehaven Road | T°0 | 70°T | | |
| Node 75 | 6776 Thornhill Drive | 66°T | 127°T | | |
| Node 77 | 6659 Girvin Drive | 100°T | 180°T | | |
| Node 78 | 7380 Claremont Avenue | 55°T | 200°T | | |
| Node 79 | 6757 Sobrante Road | 70°T | 159°T | | |
| Node 81 | Shepherd Canyon Road and Escher Drive | 56°T | 209°T | | |
| Table 1. New Cingular Wireless Nodes Evaluated | | | | | |

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed operation through is calculated to be $0.0026~\text{mW/cm}^2$, which is 0.50% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building* is 1.2% of the

Including nearby residences located at least 9 feet from any pole, based on photographs from Google Maps.



public 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.

Recommended Mitigation Measures

Due to their mounting locations on utility poles, the New Cingular Wireless antennas 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, no access within 3 feet directly in front of the antennas themselves, such as might occur during maintenance work on the poles, should be allowed while the pertinent node is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory warning signs[†] at the antennas and/or on the poles below the antennas, 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 the proposed operation of these New Cingular Wireless nodes located 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. Posting explanatory signs is recommended to establish compliance with occupational exposure limitations.

Warning signs should comply with OET-65 color, symbol, and content recommendations. Signage may also need to comply with the requirements of California Public Utilities Commission General Order No. 95.



Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2013. 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.

M-20676

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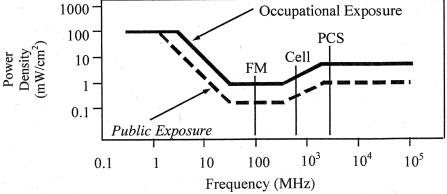
December 13, 2012

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) | Field S | etric trength /m) | | Mag Field S (A | | Equivalent Power D (mW/o | ensity |
| 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 √ f | 1.59√f | | $\sqrt{f}/106$ | $\sqrt{f/238}$ | 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[™] 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.

