Case File Number: DR13-046 May 1st, 2013

Location: The Public Right-of-Way across from 6776 Thornhill Drive

Park Way. (See map on reverse)

Assessors Parcel Numbers: Nearest lot adjacent to the project site. APN.(048F-7380-

021-00)

To install a wireless Telecommunications Facility (AT&T Wireless) on an existing 47'-6" high PG&E utility pole located in the public right -of-way; install two panel antennas (2' long by 10" wide) mounted onto a

seven-foot tall extension affixed on top of the pole; an associated

equipment box, one battery backup and meter boxes within a 6' tall by 20" wide single equipment box attached to the pole at a height of 8'

above the ground.

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

Contact Person/ Phone Matthew Yergovich Number: (415)596-3474

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

Case File Number: DR13-046

Proposal:

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

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

residential zone.

General Plan: Hillside Residential

Zoning: RH-4 Hillside Residential-4 Zone.

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

Determination: and alterations to an existing facility, 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: 4

Date Filed: February 4, 2013

Finality of Decision: Appealable to City Council within 10 Days

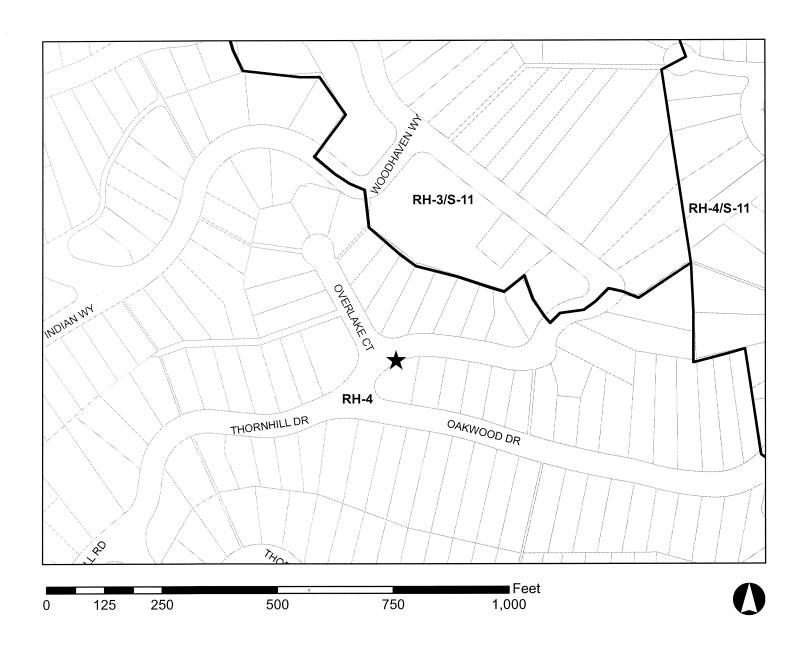
Contact case planner Jason Madani at (510) 238-4790 or

For Further Information: ismadani@oaklandnet.com

SUMMARY

The proposal is to install a wireless Macro Telecommunications Facility on an existing 47'-6" 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 (2' long by 10" wide) mounted onto a seven-foot tall extension affixed on top of the pole; an associated equipment box, one battery backup and meter boxes within a 6' tall by 20" wide single equipment box attached to the pole at a height of 8' above the ground. Staff believes, given the topography, existing mature tall trees, and limited exposure mostly on the street, the visual impact will be very limited. The antennas would only be partially visible from the side windows of the residence located at 6401 Oakwood Drive where would be screened by existing tree foliage. The proposed project as conditioned, will be designed to meet the established zoning and telecommunication regulations and staff recommends approval of the Major Design Review application.

CITY OF OAKLAND PLANNING COMMISSION



Case File: DR13046

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

Address: in public Right of Way across from

6776 Thornhill Drive

Zone: RH-4

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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, LLC. for AT&T Mobility) is proposing to install a wireless Telecommunications Macro Facility on an existing 47'-6" high PG&E utility pole located in the public right—of—way. The project consists of two panel antennas (2' long by 10" wide) mounted onto a seven-foot tall extension affixed on top of the pole located in public right of-way; an associated equipment box, one battery backup and meter boxes within a 6' tall by 20" wide single equipment box attached to the pole at a height of 8'above the ground.

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No portion of the telecommunication facilities will be located on the ground within the 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 47'-6" high PG&E utility pole is located in the City of Oakland public right -of-way adjacent to a parcel approximately 25-feet away from nearest residences at 6401 Oakwood Drive and direct across street from 6776 Thornhill Drive Way approximately 60' away from their building foot print located on a sloped parcel in the area which is bounded with series of tall trees with trees partially obscuring views of the pole in a residential area.

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 facility will be mounted on an existing PG&E utility pole within the City of Oakland public right-of-way. Its visual impacts will be mitigated since the antennas installation while typically not considered aesthetically pleasing, given the location of utility pole, mature vegetation, and limited exposure mostly to the public street rather than viewed from the most of residence living area, will be camouflaged and blend in with the existing tall trees and the equipment cabinet box will be within a single box and painted to match the existing utility pole. Therefore, the proposed unmanned wireless telecommunication facility will not adversely affect or detract from the residential characteristics of the neighborhood.

ZONING ANALYSIS

The project site is located in RH-4 Residential Zone. The intent of the RH-4 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 telecommunication facility is located approximately 25' away from nearest residential buildings located at 6401 Oakwood Drive. The project requires Regular Design Review, with special findings, to allow the installation of new telecommunication facilities on an existing PG&E pole located in the public right-of-way in a Residential Zone. Special findings required for Design Review approval to ensure that the facility is concealed to the extent possible. These findings are met by this proposal; while the antennas installation are typically not considered aesthetically pleasing, given the topography, mature tall trees, and limited exposure mostly their garages or front yard area, they will be camouflaged by the existing mature tall trees. The equipment cabinets will be enclosed within a single equipment box painted to match the utility pole. Staff finds that the proposed application meets the applicable RH-4 Hillside Residential zoning regulations for telecommunication facilities.

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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-4 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.
- 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.

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- 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 single 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.

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.

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CONCLUSION

Staff believes that the proposed project installation, given the topography, mature tall trees and have exposure mostly to the public street or one of the residences side window where would be screened by the existing trees and dense vegetation. The existing homes building foot prints are set back far enough to have a minimum visual exposure to the utility pole, 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 DR13-46 subject to the attached findings and conditions of approval

Prepared by:

Jason Madani Planner II

Approved by:

Scott Miller Zoning Manager

Approved for forwarding to the City Planning Commission

Rachel Flynn, Diffector

Department of Planning and Building

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 (2' long by 10" wide) mounted onto a seven-foot tall extension affixed on top of the pole located in the public right-of- way; an associated equipment box, one battery backup and meter boxes within a 6' tall by 20" wide singular equipment box attached to the pole at a height of 8' above the ground. The proposed antennas and equipment cabinet attached to the utility pole are partially camouflaged to blend in with the existing surrounding tall trees and have an exposure mostly to the public street and residence's front yard 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 hillside residential area. The installation will be camouflaged to blend in with the existing surrounding tall trees 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 have significant adversely affect or detract from the residential characteristics of the

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neighborhood. Visual impacts will be minimized since the area is surrounded with mature tall trees with trees partially obscuring views of the pole. Therefore, the Project conforms to 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 and blend with the surroundings.

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

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

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

The proposed antennas will be mounted directly above 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 single 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.

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The antennas will be mounted onto a seven-foot tall extension affixed on top of existing 47'-6" high PG&E pole for a total of 54'-6" in height, and will not be accessible to the public due to its location. The equipment accommodation and battery backup boxes will also be inside a single equipment box and attached to the pole at a height of 8' above grade.

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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 **DR13-046**, and the plans dated

December 24, 2012 and submitted on February 4th, 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 47'-6" high PG&E utility pole located in public right -of-way; install two panel antennas (2' long by 10" wide) mounted onto a seven-foot tall extension affixed on top of the pole; an associated equipment box, one battery backup and meter boxes within a 6' tall by 20" wide single equipment box attached to the pole at a height of 8' above the 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. <u>Conformance to Approved Plans; Modification of Conditions or Revocation</u> *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

Ongoing

Ongoing

- a. To the maximum extent permitted by law, the applicant shall defend (with counsel 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 its respective agents, officers, and employees (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, (1) an approval by the City relating to a development-related application or subdivision or (2) implementation of an approved development-related project. The City may elect, in its sole discretion, to participate in the defense of said Action and the 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 applicant shall execute a Letter of Agreement with the City, acceptable to the

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Office of the City Attorney, which memorializes the above obligations. These obligations and the Letter of Agreement shall survive termination, extinguishment or invalidation of the approval. Failure to timely execute the Letter of Agreement does not relieve the applicant of any of the obligations contained in this condition or other requirements or Conditions of Approval that may be imposed by the City.

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

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case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

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

PROJECT SPECIFIC CONDTIONS:

13. Radio Frequency Emissions

Prior to the final building permit sign off.

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

14. Operational

Ongoing.

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

15. Equipment cabinets

Prior to building permit Issuances.

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

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16. 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.



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.



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

PROJECT INFORMATION: =

OAKHILLS AT&T SOUTH NETWORK NODE 075B

ACROSS FROM 6776 THORNHILL DR OAKLAND, CA 94611

CURRENT ISSUE DATE:

12/24/12

ISSUED FOR:

ZONING

ACI 12/24/12 ZDs 0 BY DATE DESCRIPTION: REV

PLANS PREPARED BY:



5711 Research Drive Canton, MI 48188

BER: OAKS

CONSTRUCTED BY:=



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

SEAL OF APPROVAL:

SHEET TITLE:

TITLE SHEET
AND
PROJECT INFORMATION

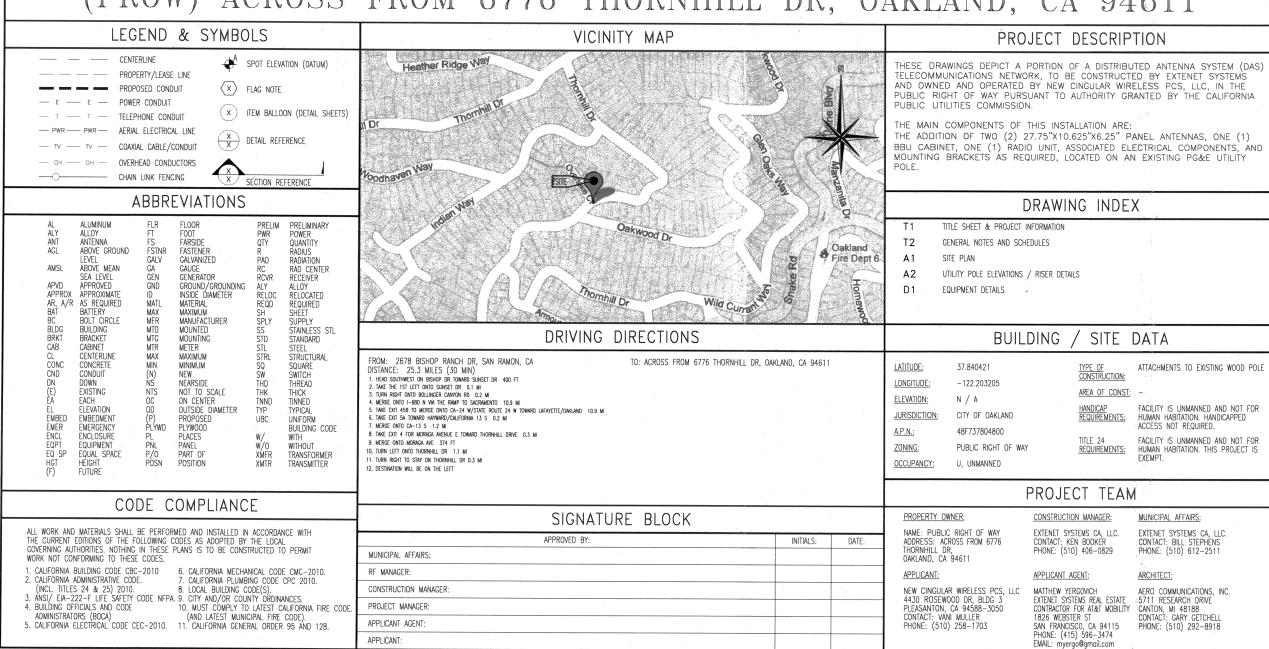
SHEET NUMBER: REVISION:

T1

12/24/12

DAKHILLS AT&T SOUTH NETWORK OAKS-075B

(PROW) ACROSS FROM 6776 THORNHILL DR, OAKLAND, CA 94611



- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENDEHABARS WHICH 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, DOCK 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 DEPOSESSION. A LAND SUBJECTION.
- 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
- THE APPROVE PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND PER THE APPROVED PLANS. 4. IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVE PLANS IS DAMAGED OR REMOVED.
- 5. 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
- 9. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND FOUIPMENT ON HAND FOR LINFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE FROSION 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

- 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 DETEND INDEMNITY AND HOLD EXTENCT, REPRESENTATIVES, AND
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, PRIOR TO THE EXCHANGE 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 AMENOMENTS THERETO.
- 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 OBJUSTED BY A SEARCH OF ANALABLE 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 IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- 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
- 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. 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 WITH 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 \$1,000,000.00 FOR THIS
- 12. VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER, ANY AND ALL DEWATIONS FROM THE SPECIFIED TYPES 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 & WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT
- 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 THES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTAL 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:
- 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 (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- 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
- 4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- 5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- 6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- 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.
- 8. THE 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.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED (THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES,
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- 11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HERON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT, ENGINEER.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT
- 13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- 14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE FROSION/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.

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

PROJECT INFORMATION:

OAKHILLS AT&T SOUTH NETWORK NODE 075B

ACROSS FROM 6776 THORNHILL DR

CURRENT ISSUE DATE: =

12/24/12

ISSUED FOR: =

ZONING

BY: DATE: DESCRIPTION: REV: ACI 12/24/1: BY DATE DESCRIPTION REV

PLANS PREPARED BY:



ACL NUMBER CONSTRUCTED BY

enetwore everywhere. YOUR NETWORK SYSTEMS

3030 Warrenville Rd, Suite 340 www.extenet.com

SEAL OF APPROVAL:

=SHEET TITLE: =

GENERAL NOTES AND **SCHEDULES**

SHEET NUMBER -

12/24/12

=REVISION:

- 1. 12U/24U 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, CO95 AND GO128 STANDARDS AND REGULATIONS.
 4. CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600.
 5. ALL CANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
 6. ALL EQUIPMENT TO BE BONDED.
 7. METERING CABINET REGULIRES 3. CLEARANCE AT DOCA SERVICE.
 8. OR STATE OF THE POLICE OF THE POLICE AT DOCA SERVICE.
 90' SHORT SWEFPS LINDER ANTENNA ASSUMENT.

- 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

GENERAL NOTES

ROW GROUND CONSTRUCTION NOTES:

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

- . 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.
 . 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.

STANDARD TRENCHING NOTES:

- MAINTAIN 40" MINIMUM COVER FOR ELECTRICAL CONDUIT.
 MAINTAIN 30" MINIMUM COVER FOR COMMUNICATIONS CONDUIT.
 SAND SHADING MINIMUM 1" UNDER CONDUITS, AND 6" COVERING ON TOP
- ALL ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED.

 5. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2* FOR AC CAP.
- 6. IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
- 7. PLACE WARNING TAPE IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND RING.

ROW UTILITY POLE CONSTRUCTION NOTES:

- 3. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED

- 4. CABLE NOT TO IMPEDE 15" CLEAN SPACE OFF TOTAL (12:00).
 5. 90" SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSTION 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 ANTENNA, WHICH IS 24" AWAY FROM CENTER OF POLE.
 9. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE
- SPECIFIED.

 10. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

ANTENNA/WOOD ARM AREA 82.52 SQ. FT. TOP GRADE 57'-5' BOTTOM GRADE 47'-6' METER/BREAKER 14.62 SQ. FT. TOP GRADE 8'-11 BOTTOM GRADE 8'-0" BATTERY BACK-UP AREA TOTAL 40.5 SQ. FT. TOP GRADE 18'-9" BOTTOM GRADE 16'-6' PRISM DECK AREA TOTAL 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 54'-0' COAX RISER RIM GRADE 11'-7 PWR RISER SIZE 1"ø PWR RISER TOP GRAD 35'-7' PWR RISER BTM GRADE 8'-0'

WIND LOADING INFORMATION

ROW CONSTRUCTION GENERAL NOTES

SCALE 3 LOADING AND ANTENNA CABLE SCHEDULES

ANTENNA

SECTOR

SECTOR ALPHA

SECTOR

BETA

SECTOR GAMMA

AZIMUTH

66

127

SCALE

SCALE

NTS

CABLE

1/2"

1/2"

ANTENNA & CABLE SCHEDULE

CABLE LENGTH

45'/3'

45'/3'

2/4

2/4

ANTENNA

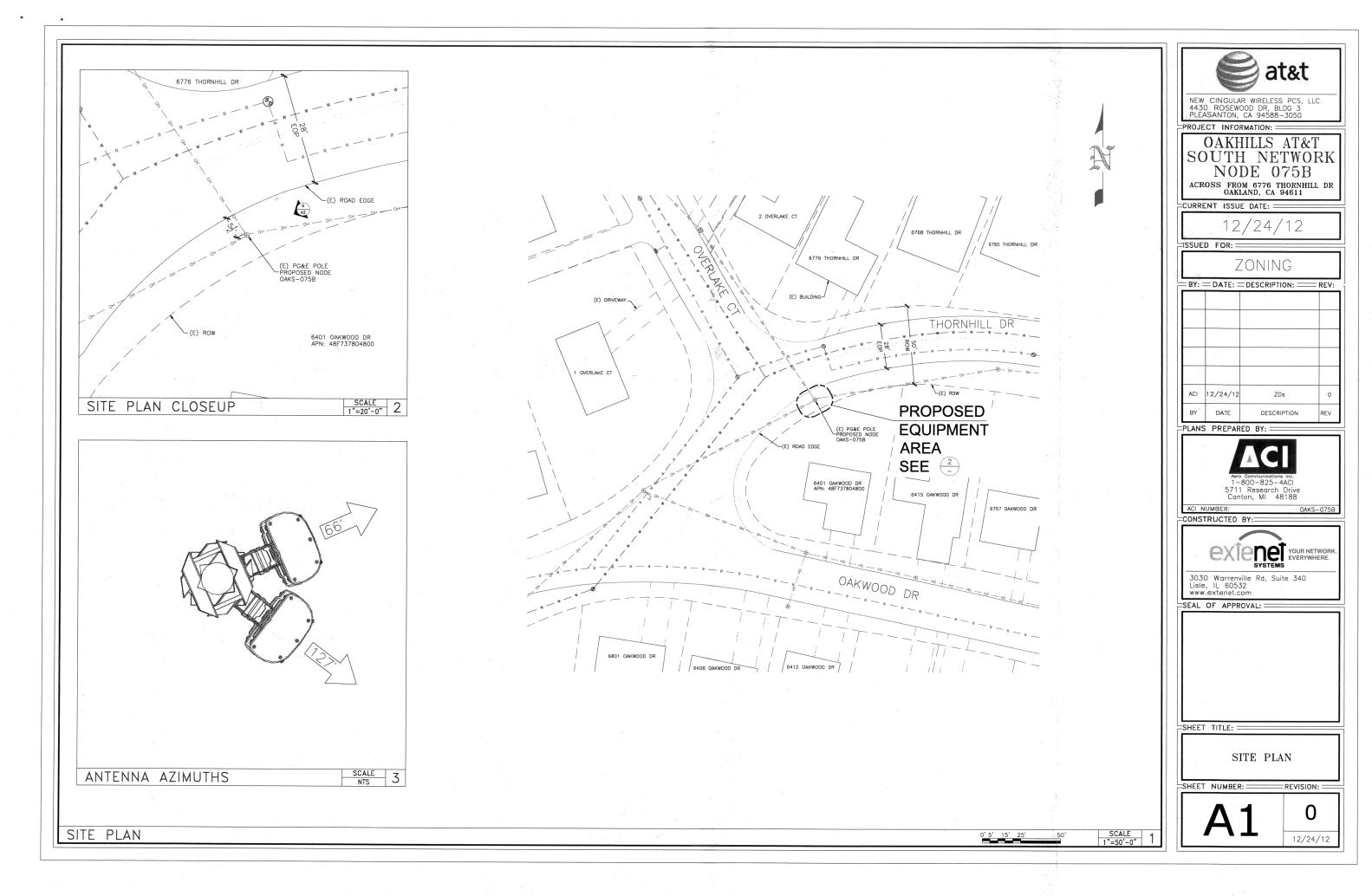
MAKE / MODEL

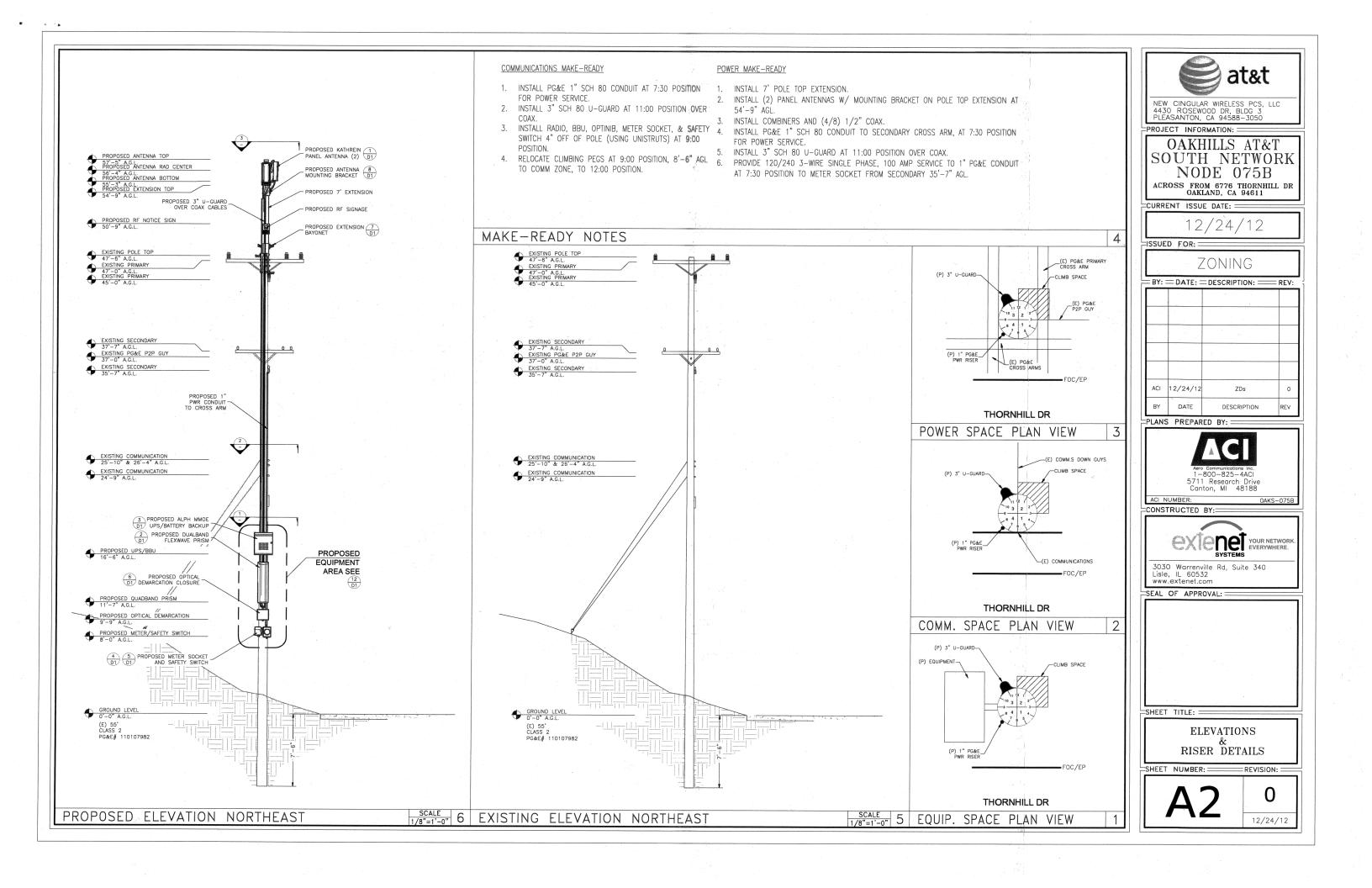
KATHREIN

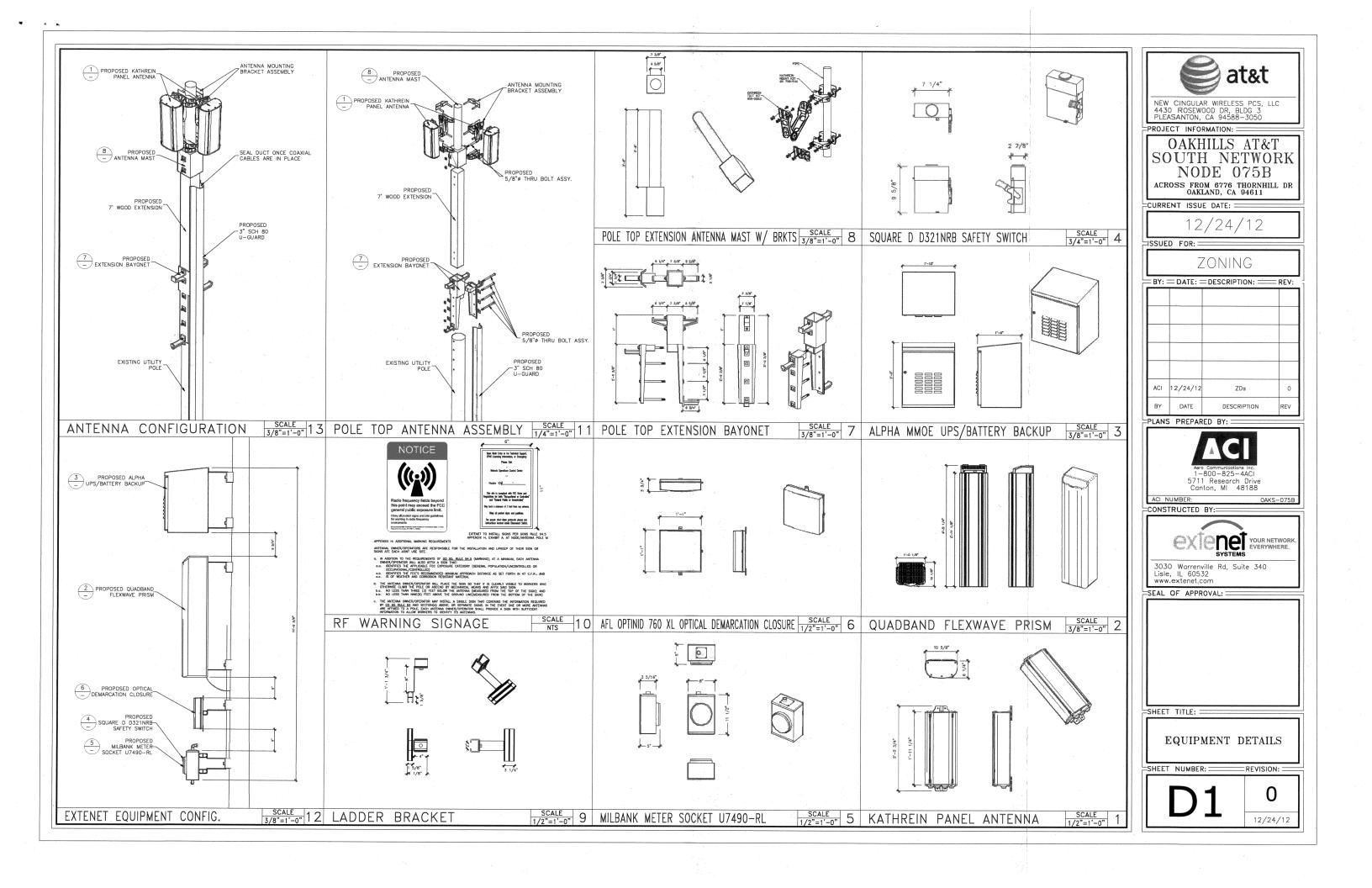
840-10525

KATHREIN 840-10525

NOTE: CONTRACTOR TO FIELD VERIFY CABLE LENGTHS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF CABLES







Proposed Proposed AT&T Antenna Across From 6776 Thornhill Drive, Oakland , CA Oakhills AT&T South Network Node 075B view from Thornhill Drive looking southeast at site AT&T Wireless Existing

Advances in Photo Simulation Solutions Contact (925) 202-8507



April 16, 2013

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

Re: 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 across from 6776 Thornhill Dr.

Site ID: OAKS-75B
Planning #: DR13-046

Latitude/Longitude: 37.840421, -122.203205

Joint Utility Pole #: 110107979

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 is northwest off of Snake Road along Thornhill Drive and the surrounding areas.

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 residential 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 nearby trees.

Alternative sites were considered at other utility poles in the area including ones along Thornhill Drive and Overlake Court. However, the proposed location is ideal because it is at a high point in the road so the best coverage can be provided from this location, up and down Thornhill Drive and down Overlake Court. Also there are nearby trees that will partially obscure the proposed facility from view. The nearest poles northeast along Thornhill dip down to a lower elevation and away from the intended coverage area. The nearest pole southwest is much more exposed and visible than the proposed pole location. The poles along Overlake Court are also much more exposed and offer a reduced elevation. For all of these reasons, the proposed location 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

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:

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 Radi	o) 855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency rang	ge] 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. 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.

Approximate Node # Address		Antenna Orientations			
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	T°0	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	88°T		
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	T°0	70°T		
Node 71	3343 Crane Way	72°T	355°T		
Node 74	6925 Pinehaven Road	1° 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 mW/cm², 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 M easures

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 Exp. 6-30-2013

December 13, 2012

William F. Hammett, P.E

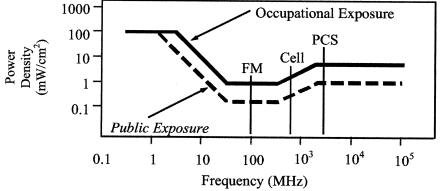
707/996-5200

FCC Radio Frequency Protection Guide

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

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

Frequency	Electromagnetic Fields (f is frequency of emission in MHz)							
Applicable Range (MHz)	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm 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	$180/f^2$		
3.0 - 30	18 42 / 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	√ 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.



