Oakland City Planning Commission

STAFF REPORT

Case nos. PLN18436 / PLN18437

November 28, 2018

Locations:	City street light pole in public right-of-way (median) adjacent to: **1) Case no. PLN18436; 3950 Broadway** (Adjacent to APN: 012 -0983-019-04 / 3634 Broadway); Submitted: 11/2/18; General Plan: Community Commercial; Zoning: CC-2 Neighborhood Commercial Zones; Council District: 1 **2) Case file no. PLN18437; 4351 Broadway** (APN: 013 -1106-01-00); General Plan: Community Commercial / Institutional; Zoning: CC-2 / RM-1 Mixed Housing Type Residential Zone ***(See map on reverse)***
Proposal:	To consider requests for two (2) applications to install a new "small cell site" Monopole Telecommunications Facility on a City street light pole by attaching antenna and equipment
Applicant / Phone Number:	Mr. Justin Giarritta / Vinculums (925) 482-8519
Owner:	City of Oakland
Planning Permits Required:	Major Conditional Use Permit and Regular Design Review with additional findings for Monopole Telecommunications Facility in or near a Residential Zone
Environmental Determination:	Exempt, Section 15301 of the State CEQA Guidelines: Existing Facilities; Exempt, Section 15302: Replacement or Reconstruction; Exempt, Section 15303: New Construction of Small Structures; Section 15183: Projects Consistent with a Community Plan, General Plan or Zoning
Historic Status:	Non-historic properties
Action to be Taken:	Approve with Conditions
Finality of Decision:	*Appealable to City Council within 10 days*
For Further Information:	Contact case planner **Aubrey Rose AICP** at **(510) 238-2071** or arose@oaklandca.gov

EXECUTIVE SUMMARY

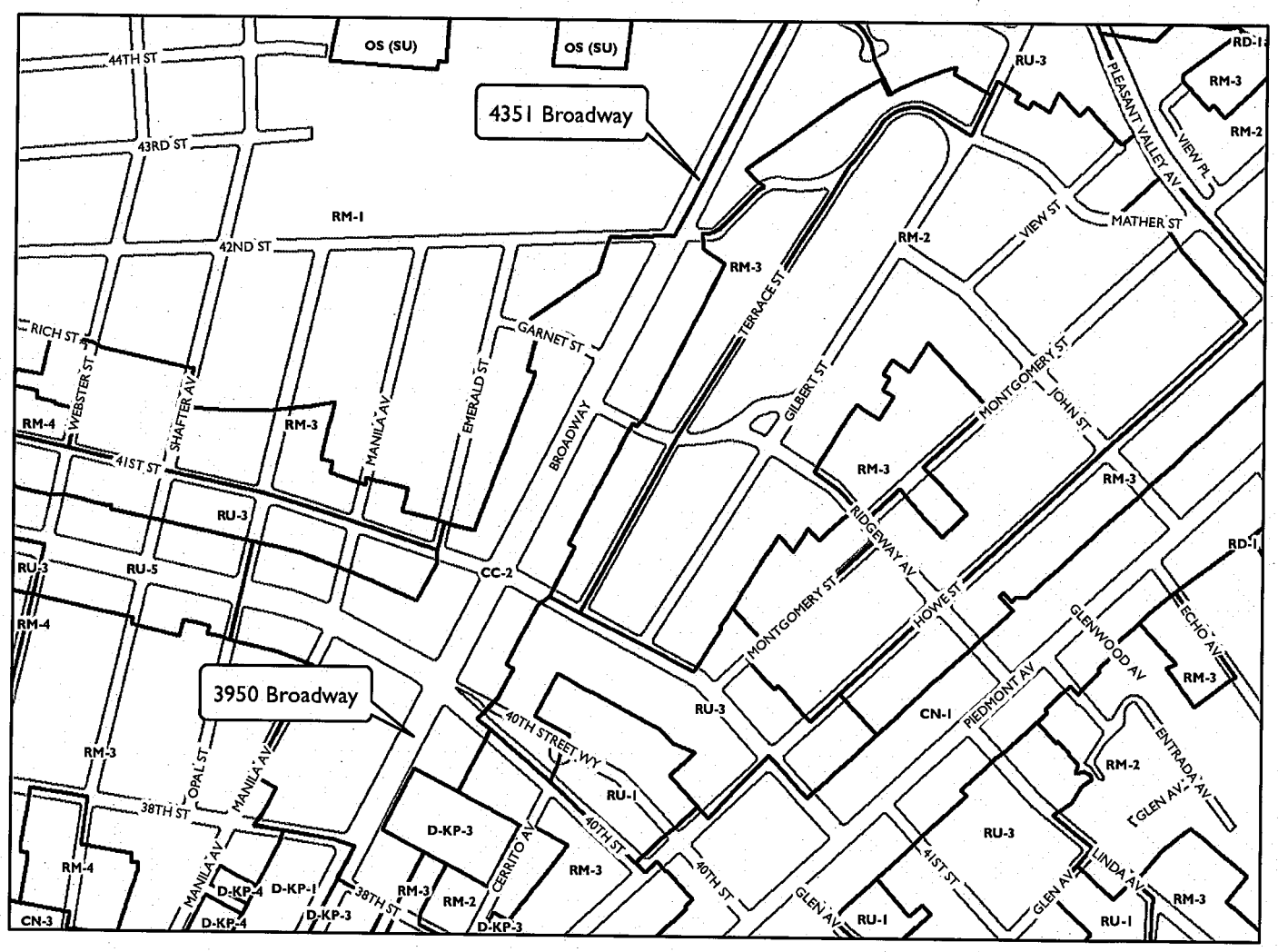
The applicant requests Planning Commission approval of two (2) applications to establish a "small cell site" Monopole Telecommunications Facility on an existing City street light poles located in the public right-of-way (median) in or near a residential zone. The project involves attaching one antenna within one shroud to the top of the pole and equipment mounted to the side of the pole, as described in the submitted plans, to enhance wireless service in the area.

Regular Design Review and a Major Conditional Use Permit decided by the Planning Commission, each with additional findings, are required for the installation of a new Monopole Telecommunications Facility located in or near a residential zone. The proposed projects, antenna and associated equipment, would be similar to other facilities around the City. The proposed telecommunication facility is therefore sited at an appropriate location and would not significantly increase negative visual impacts to adjacent properties. The applications meet all the required findings for approval of these two (2) small cell sites.

TELECOMMUNICATIONS BACKGROUND

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

CITY OF OAKLAND PLANNING COMMISSION



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Case Files: PLN18436, PLN18437
Applicant: Mr. Justin Giarritta / Vinculums
Addresses: City street light pole in public right-of-way (median) adjacent to a) 3950 Broadway, b) 4351 Broadway
Zones: CC-2, RM-1

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

- Under Section 253 of the TCA, no state or local regulation or other legal requirement can prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service.

- Further, Section 704 of the TCA imposes limitations on what local and state governments can do. Section 704 prohibits any state and local government action which unreasonably discriminates among personal wireless providers. Local governments must ensure that its wireless ordinance does not contain requirements in the form of regulatory terms or fees which may have the "effect" of prohibiting the placement, construction, or modification of personal wireless services.

- Section 704 also preempts any local zoning regulation purporting to regulate the placement, construction and modification of personal wireless service facilities on the basis, either directly or indirectly, on the environmental effects of radio frequency emissions (RF) of such facilities, which otherwise comply with Federal Communications Commission (FCC) standards in this regard. (See 47 U.S.C. Section 332(c)(7)(B)(iv) (1996)). This means that local authorities may not regulate the siting or construction of personal wireless facilities based on RF standards that are more stringent than those promulgated by the FCC.

- Section 704 mandates that local governments act upon personal wireless service facility siting applications to place, construct, or modify a facility within a reasonable time (See 47 U.S.C.332(c)(7)(B)(ii) and FCC Shot Clock ruling setting forth "reasonable time" standards for applications deemed complete).

- Section 704 also mandates that the FCC provide technical support to local governments in order to encourage them to make property, rights-of-way, and easements under their jurisdiction available for the placement of new spectrum-based telecommunications services. This proceeding is currently at the comment stage.

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

PROPERTY DESCRIPTION

The sites consist of 25-foot tall City light poles located in the median of a four-lane street with two "cobra-head" luminaires each at 26'-3" in height.

1) Case no. PLN18436; 3950 Broadway

The pole is located south of the intersection at 40th Street. The corners contain one, two and three-story commercial buildings with some upper story residences.

2) Case file no. PLN18437; 4351 Broadway

The pole is located between 42nd and 45th Streets between the large front lawn at Oakland Technical High School to the west, and, alternating one-story commercial buildings and open parking lots to the east.

PROJECT DESCRIPTION

The sites are proposed for:

- Installation by top-mounting a 4'-6" tall shroud containing one 25-inch tall canister antennas to total 28'-6" in height;
- Installation of two 1'-6" tall equipment packs, side-mounted equipment below the street light(s); and
- Paint the proposed antennas and associated equipment to match the pole.

No portion of the telecommunication facilities would be located at grade. The proposed antenna and associated equipment would not be accessible to the public.

SIMILAR CASES

Records show that the Planning Commission has approved numerous Monopole Telecommunications Facilities requiring Design Review and Conditional Use Permits throughout the City since 2016.

GENERAL PLAN ANALYSIS

Both sites are located in the Community Commercial area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the area is: "to identify, create, maintain, and enhance areas suitable for a wide variety of commercial and institutional operations along the City's major corridors and in shopping districts or centers." Additionally, Site # 2 is split with the LUTE's Institutional area to the west; the area's intent is: "to create, maintain, and enhance areas appropriate for educational facilities, cultural and institutional uses, health series and medical uses as well as other uses of similar character." The proposed telecommunication facilities would be mounted on existing City street light poles within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility would not adversely affect the characteristics of the neighborhood.

ZONING ANALYSIS

Both sites are in the CC-2 Community Commercial Zone. Additionally, Site # 2 is split with the RM-1 Mixed Housing Type Residential zone to the west. Monopole Telecommunications Facilities on City light poles require a Conditional Use Permit and a Regular Design Review with additional findings; these permits are decided by the Planning Commission for sites located in or near residential zones. New wireless telecommunications facilities may also be subject to a Site Alternatives Analysis, Site Design Alternatives Analysis, and a satisfactory radio-frequency (RF) emissions report. Staff analyzes the proposal in consideration of these requirements in the 'Key Issues and Impacts' section of this report. Additionally, attachment to City infrastructure requires review by the City's Real Estate Department, Public Works Agency's Electrical Division, and Information Technology Department. Given customers increasing reliance upon cellular service for phone and Wi-Fi, the proposal for a Monopole Telecommunications Facility that is not adjacent to a primary living space or historic structure conforms to this intent.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines list the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15301, minor additions and alterations to an existing City street light pole; Section 15302, replacement or reconstruction of existing utility systems and/or facilities; Section 15303, new construction or conversion of small structures, and Section 15183, projects consistent with a community plan, general plan or zoning.

KEY ISSUES AND IMPACTS

The proposal to establish a Monopole Telecommunications Facility is subject to the following Planning Code development standards, which are followed by staff's analysis in relation to this application:

17.128.080 Monopole Telecommunications Facilities.
A. General Development Standards for Monopole Telecommunications Facilities.

1. Applicant and owner shall allow other future wireless communications companies including public and quasi-public agencies using similar technology to collocate antenna equipment and facilities on the monopole unless specific technical or other constraints, subject to independent verification, at the applicant's expense, at the discretion of the City of Oakland Zoning Manager, prohibit said collocation. Applicant and other wireless carriers shall provide a mechanism for the construction and maintenance of shared facilities and infrastructure and shall provide for equitable sharing of cost in accordance with industry standards. Construction of future facilities shall not interrupt or interfere with the continuous operation of applicant's facilities.

The proposal involves use of an existing City of Oakland metal street light pole that would remain available for future collocation purposes as practicable.

2. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained.

Recommended conditions of approval require painting and texturing the antenna and equipment to match the appearance of the metal pole. There is no equipment shelter or cabinet proposed; however, minimal equipment would be closely mounted onto the side of the metal pole.

3. When a monopole is in a Residential Zone or adjacent to a residential use, it must be set back from the nearest residential lot line a distance at least equal to its total height.

Neither site is adjacent to a residence.

4. In all zones other than the D-CE-5, D-CE-6, IG, CIX-2, and IO Zones, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may be increased from the otherwise required maximum height to forty-five (45) feet upon the granting of a Conditional Use Permit (see Chapter 17.134 for the Conditional Use Permit Procedure).

This requirement does not apply. The subject property is not located in any of the described zoning districts. Nonetheless, the facility would not exceed the height of 28'-6.

5. In the D-CE-5, D-CE-6, CIX-2, and IO Zones, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may be increased from the otherwise required maximum height to eighty (80) feet upon the granting of a Conditional Use Permit (see Chapter 17.134 for the Conditional Use Permit Procedure).

This requirement does not apply. The subject property is not located in any of the described zoning districts. Nonetheless, the facility would not exceed the height of 28'-6".

6. In the IG Zone, the maximum height of Monopole Telecommunications Facilities and connecting appurtenances may reach a height of forty-five (45) feet. These facilities may reach a height of eighty (80) feet upon the granting of Regular Design Review approval (see Chapter 17.136 for the Design Review Procedure).

This requirement does not apply. The subject property is not located in the described zoning district. Nonetheless, the facility would not exceed the height of 28'-6.

7. The applicant shall submit written documentation demonstrating that the emissions from the proposed project are within the limits set by the Federal Communications Commission.

This standard is met by the proposal; a satisfactory emissions report has been submitted and is attached to this report **(Attachments C-D)**.

8. Antennas may not extend more than fifteen (15) feet above their supporting structure.

The proposed antenna would project less than fifteen feet above the City light pole.

17.128.110 Site location preferences.
New wireless facilities shall generally be located on the following properties or facilities in 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 Nonresidential Zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
D. Existing commercial or industrial structures in Residential Zones, HBX Zones, or the DCE-3 or D-CE-4 Zones.
E. Other Nonresidential uses in Residential Zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
F. Residential uses in Nonresidential Zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).
G. Residential uses in Residential Zones, HBX Zones, or the D-CE-3 or D-CE-4 Zones.
Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis. Facilities proposing to locate on a D through G ranked preference, inclusive, must submit a site alternatives analysis as part of the required application materials. A site alternatives analysis shall, at a minimum, consist of: a. The identification of all A, B and C ranked preference sites within one thousand (1,000) feet of the proposed location. If more than three (3) sites in each preference order exist, the three such closest to the proposed location shall be required. b. Written evidence indicating why each such identified alternative cannot be used. Such evidence shall be in sufficient detail that independent verification, at the applicant's expense, 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. refusal to lease, inability to provide utilities).

A site alternatives analysis is not required because the proposal conforms to 'B' as it would be located on a public facility (City light pole). Nonetheless, the applicant has submitted an analysis which is attached to this report **(Attachments C-D)**.

17.128.120 Site design preferences.

New wireless facilities shall generally be designed in the following order of preference:
A. Building or structure mounted antennas completely concealed from view.
B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
D. Building or structure mounted antennas above roof line visible from public right-of-way.
E. Monopoles.
F. Towers.
Facilities designed to meet an A or B ranked preference do not require a site design alternatives analysis. Facilities designed to meet a C through F ranked preference, inclusive, must submit a site design alternatives analysis as part of the required application materials. A site design alternatives analysis shall, at a minimum, consist of: a. Written evidence indicating why each such higher preference design alternative cannot be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

The proposal most closely conforms to 'E' (monopole) and the applicant has submitted a satisfactory site design alternatives analysis **(Attachments C-D)**.

17.128.130 Radio frequency emissions standards.

The applicant for all wireless facilities, including requests for modifications to existing facilities, shall submit the following verifications:
a. With the initial application, a RF emissions report, prepared by a licensed professional engineer or other expert, indicating that the proposed site will operate within the current acceptable thresholds as established by the Federal government or any such agency who may be subsequently authorized to establish such standards.
b. Prior to commencement of construction, a RF emissions report indicating the baseline RF emissions condition at the proposed site.
c. 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.

A satisfactory report is attached to this report **(Attachments C-D)**.

Analysis

The proposed site design would not be situated on an historic or decorative pole or structure, would not create a view obstruction, and would not negatively impact a view from a primary living space such as a living room or bedroom window. Staff, therefore, finds the proposal to provide an essential service with a least-intrusive possible design. Draft conditions of approval stipulate that the components be painted and textured to match the metal pole in appearance for camouflaging.

In conclusion, staff recommends approval subject to recommended Conditions of Approval.

RECOMMENDATIONS:

1. Affirm staff's environmental determination.
2. Approve the Major Conditional Use Permit and Regular Design Review, subject to the attached Findings and Conditions of Approval.

Prepared by:

AUBREY ROSE, AICP
Planner III

Reviewed by:

ROBERT D. MERKAMP
Acting Zoning Manager

Approved for forwarding to the Planning Commission:

ED MANASSE, Interim Deputy Director
Planning Bureau

ATTACHMENTS:

A. Findings

B. Conditions of Approval

Plans / Photo-Simulations / Site Analyses / RF Report:

C. Site # 1: Case no. PLN18436; 3950 Broadway

D. Site # 2: Case file no. PLN18437; 4351 Broadway

ATTACHMENT A: FINDINGS

This proposal meets the required findings under General Use Permit Criteria (OMC Sec. 17.134.050), Conditional Use Permit Criteria for Monopole Facilities (OMC Sec. 17.136.040 (A)), Regular Design Review Criteria for Nonresidential Facilities (OMC Sec. 17.136.050(B)), and Design Review Criteria for Monopole Telecommunications Facilities (OMC Sec. 17.128.070(B)), as set forth below. Required findings are shown in **bold** type; explanations as to why these findings can be made are in normal type.

GENERAL USE PERMIT CRITERIA (OMC SEC. 17.134.050):

A. That the location, size, design, and operating characteristics of the proposed development will be compatible with and will not adversely affect the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage, and density; to the availability of civic facilities and utilities; to harmful effect, if any, upon desirable neighborhood character; to the generation of traffic and the capacity of surrounding streets; and to any other relevant impact of the development.

The proposal is to establish a Monopole Telecommunications Facility in a residential or commercial zone by attaching to an existing City light pole. Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

B. That the location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping, or civic environment, and will be as attractive as the nature of the use and its location and setting warrant.

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design.

C. That the proposed development will enhance the successful operation of the surrounding area in its basic community functions, or will provide an essential service to the community or region.

The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

D. That the proposal conforms to all applicable design review criteria set forth in the design review procedure at Section 17.136.070.

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

E. That the proposal conforms in all significant respects with the Oakland Comprehensive Plan and with any other applicable plan or development control map which has been adopted by the City Council.

EXHIBIT A

Both sites are located in the Community Commercial area under the General Plan's Land Use and Transportation Element (LUTE). The intent of the area is: "to identify, create, maintain, and enhance areas suitable for a wide variety of commercial and institutional operations along the City's major corridors and in shopping districts or centers." Additionally, Site # 2 is split with the LUTE's Institutional area to the west; the area's intent is: "to create, maintain, and enhance areas appropriate for educational facilities, cultural and institutional uses, health series and medical uses as well as other uses of similar character." The proposed telecommunication facilities would be mounted on existing City street light poles within the City of Oakland public right-of-way. The proposed unmanned wireless telecommunication facility would not adversely affect the characteristics of the neighborhood.

CONDITIONAL USE PERMIT CRITERIA FOR MONOPOLE FACILITIES (OMC SEC. 17.128.070(C))

1. The project must meet the special design review criteria listed in subsection B of this section.

The proposal conforms to Design Review findings which are included in that section of this attachment of Findings for Approval.

2. Monopoles should not be located any closer than one thousand five hundred (1,500) feet from existing monopoles unless technologically required or visually preferable.

Use of this pole precludes placement of a new pole with facility fronting an upper story residences at various viable sites in the surrounding area and is therefore "visually preferable."

3. The proposed project must not disrupt the overall community character.

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The project will enhance existing service for merchants, shoppers, residents, and visitors in the area.

4. If a major conditional use permit is required, the Planning Director or the Planning Commission may request independent expert review regarding site location, collocation and facility configuration. Any party may request that the Planning Commission consider making such request for independent expert review.
a. If there is any objection to the appointment of an independent expert engineer, the applicant must notify the Planning Director within ten (10) days of the Commission request. The Commission will hear arguments regarding the need for the independent expert and the applicant's objection to having one appointed. The Commission will rule as to whether an independent expert should be appointed.
b. Should the Commission appoint an independent expert, the Commission will direct the Planning Director to pick an expert from a panel of licensed engineers, a list of which will be compiled, updated and maintained by the Planning Department.
c. No expert on the panel will be allowed to review any materials or investigate any application without first signing an agreement under penalty of perjury that the expert will keep confidential any and all information learned during the investigation of the application. No personnel currently employed by a telecommunication company are eligible for inclusion on the list.
d. An applicant may elect to keep confidential any proprietary information during the expert's investigation. However, if an applicant does so elect to keep confidential various items of proprietary information, that applicant may not introduce the confidential proprietary information for the first time before the Commission in support of the application.
e. The Commission shall require that the independent expert prepare the report in a timely fashion so that it will be available to the public prior to any public hearing on the application.

f. Should the Commission appoint an independent expert, the expert's fees will be paid by the applicant through the application fee, imposed by the City.

A Major Conditional Use Permit is required and the Planning Director or Planning Commission may therefore independent expert review in addition to that which is attached to this report.

REGULAR DESIGN REVIEW CRITERIA FOR NON-RESIDENTIAL FACILITIES (OMC SEC. 17.136.050(B))

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;

Attachment to an existing structure with smallest possible components painted and texturized to match the pole will be the least intrusive design. The proposal will not create a view obstruction, will not be directly adjacent to a residential facility's primary living space windows, and will not be located on an historic or decorative structure.

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 will enhance essential services in a residential or commercial district.

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.

This finding is met by this proposal as described in a previous section of this attachment.

DESIGN REVIEW CRITERIA FOR MONOPOLE TELECOMMUNICATIONS FACILITIES (OMC SEC. 17.128.070(B))

1. Collocation is to be encouraged when it will decrease visual impact and collocation is to be discouraged when it will increase negative visual impact.

The project does not involve collocation as it involves the establishment of a new telecommunications facility; however, the project should not preclude any future proposals for location at the site.

2. Monopoles should not be sited to create visual clutter or negatively affect specific views.

The Monopole Facility is sited on existing infrastructure where it will not create clutter or negatively affect specific views. The view of the City street light from the adjacent story residence should remain of the pole below the antenna and above the equipment.

3. Monopoles shall be screened from the public view wherever possible.

The Monopole Facility will be camouflaged and texturized to match the appearance of the existing light pole

that will host it. The City street light is not located adjacent to a residential facility

4. The equipment shelter or cabinet must be concealed from public view or made compatible with the architecture of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained.

Recommended conditions of approval require painting and texturing the antenna and equipment to match the appearance of the metal pole. There is no equipment shelter or cabinet proposed, however minimal equipment would be closely mounted on the side of the metal pole.

5. Site location and development shall preserve the preexisting character of the surrounding buildings and land uses and the zone district as much as possible. Wireless communication towers shall be integrated through location and design to blend in with the existing characteristics of the site to the extent practical. Existing on-site vegetation shall be preserved or improved, and disturbance of the existing topography shall be minimized, unless such disturbance would result in less visual impact of the site to the surrounding area.

The proposed Monopole Facility will be placed in an existing non-decorative City light pole. This enables the preservation of character in the area and will not pose a negative visual impact as the proposal will be camouflaged to match the pole. There is no adjacent vegetation or topography.

6. 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 minimal clearance to the facility will reduce or eliminate public access.

Attachment B: Conditions of Approval

1. Approved Use

The project shall be constructed and operated in accordance with the authorized use as described in the approved application materials, **staff report** and the approved plans **dated October 2, 2017 and submitted November 2, 2018**, as amended by the following conditions of approval and mitigation measures, if applicable ("Conditions of Approval" or "Conditions").

Two (2) approvals to install new "small cell site" Monopole Telecommunications Facilities on an existing City street light pole in public right-of-way (sidewalk) by attaching one antenna within a shroud to the top of the pole and equipment mounted to the side of the pole adjacent to:

1) **Case no. PLN18436; 3950 Broadway; and**

2) **Case file no. PLN18437; 4351 Broadway**

2. Effective Date, Expiration, Extensions and Extinguishment

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

3. Compliance with Other Requirements

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

4. Minor and Major Changes

a. Minor changes to the approved project, plans, Conditions, facilities, or use may be approved administratively by the Director of City Planning.

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

EXHIBIT B

5. Compliance with Conditions of Approval

a. The project applicant and property owner, including successors, (collectively referred to hereafter as the "project applicant" or "applicant") shall be responsible for compliance with all the Conditions of Approval and any recommendations contained in any submitted and approved technical report at his/her sole cost and expense, subject to review and approval by the City of Oakland.

b. The City of Oakland reserves the right at any time during construction to require certification by a licensed professional at the project applicant's expense that the as-built project conforms to all applicable requirements, including but not limited to, approved maximum heights and minimum setbacks. Failure to construct the project in accordance with the Approval may result in remedial reconstruction, permit revocation, permit modification, stop work, permit suspension, or other corrective action.

c. Violation of any term, Condition, or project description relating to the Approval is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approval or alter these Conditions if it is found that there is violation of any of the Conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions. The project applicant shall be responsible for paying fees in accordance with the City's Master Fee Schedule for inspections conducted by the City or a City-designated third-party to investigate alleged violations of the Approval or Conditions.

6. Signed Copy of the Approval/Conditions

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

7. Blight/Nuisances

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

8. Indemnification

a. To the maximum extent permitted by law, the project applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the Oakland Redevelopment Successor Agency, the Oakland City Planning Commission, and their respective agents, officers, employees, and volunteers (hereafter collectively called "City") from any liability, damages, claim, judgment, loss (direct or indirect), action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul this Approval or implementation of this Approval. The City may elect, in its sole discretion, to participate in the defense of said Action and the project applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.

b. Within ten (10) calendar days of the filing of any Action as specified in subsection (a) above, the project applicant shall execute a Joint Defense Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and the Joint Defense Letter of Agreement shall survive termination, extinguishment, or invalidation of the Approval. Failure to timely execute the Letter of Agreement does not relieve the project applicant of any of the obligations contained in this Condition or other requirements or Conditions of Approval that may be imposed by the City.

9. Severability

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

10. Job Site Plans

Ongoing throughout demolition, grading, and/or construction

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

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

The project applicant may be required to cover the full costs of independent third-party technical review and City monitoring and inspection, including without limitation, special inspector(s)/inspection(s) during times of extensive or specialized plan-check review or construction, and inspections of potential violations of the Conditions of Approval. The project applicant shall establish a deposit with the Bureau of Building, if directed by the Building Official, Director of City Planning, or designee, prior to the issuance of a construction-related permit and on an ongoing as-needed basis.

12. Public Improvements

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

13. Construction Days/Hours

Requirement: The project applicant shall comply with the following restrictions concerning construction days and hours:

a. Construction activities are limited to between 7:00 a.m. and 7:00 p.m. Monday through Friday, except that pier drilling 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.

b. Construction activities are limited to between 9:00 a.m. and 5:00 p.m. on Saturday. In residential zones and within 300 feet of a residential zone, construction activities are allowed from 9:00 a.m. to 5:00 p.m. only within the interior of the building with the doors and windows closed. No pier drilling or other extreme noise generating activities greater than 90 dBA are allowed on Saturday.

c. No construction is allowed on Sunday or federal holidays.

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.

Any construction activity proposed outside of the above days and hours for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case-by-case basis by the City, with criteria including the urgency/emergency nature of the work, the proximity of residential or other sensitive uses, and a consideration of nearby residents'/occupants' preferences. The project applicant shall notify property owners and occupants located within 300 feet at least 14 calendar days prior to construction activity proposed outside of the above days/hours. When submitting a request to the City to allow construction activity outside of the above days/hours, the project applicant shall submit information concerning the type and duration of proposed construction activity and the draft public notice for City review and approval prior to distribution of the public notice.

When Required: During construction

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

PROJECT-SPECIFIC CONDITIONS

14. Emissions Report

Requirement: A RF emissions report shall be submitted to the Planning Bureau 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.

Requirement: Prior to a final inspection

When Required: Prior to final building permit inspection sign-off

Initial Approval: N/A

Monitoring/Inspection: N/A

15. Camouflage

Requirement: The antenna and equipment shall be painted, texturized, and maintained the same color and finish of the City light pole.

When Required: Prior to a final inspection

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

16. Operational

Requirement: 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.

When Required: Ongoing

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

17. Graffiti Control

Requirement:

a. During construction and operation of the project, the project applicant shall incorporate best management practices reasonably related to the control of graffiti and/or the mitigation of the impacts of graffiti. Such best management practices may include, without limitation:

b. The project applicant shall remove graffiti by appropriate means within seventy-two (72) hours. Appropriate means include the following:

i. Removal through scrubbing, washing, sanding, and/or scraping (or similar method) without damaging the surface and without discharging wash water or cleaning detergents into the City storm drain system.

ii. For galvanized poles, covering with new paint to match the color of the surrounding surface.

iii. Replace pole numbers.

When Required: Ongoing

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

EXHIBIT C

PROJECT TEAM

APPLICANT:
AT&T
5001 Executive Parkway
San Ramon, Ca 94583

LEASING CONTACT:
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Vinculums Services
575 Lennon Lane
Suite 125
Walnut Creek, CA 94598
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ARCHITECT/ENGINEER:
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CONSTRUCTION MANAGER:
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ZONING CONTACT
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575 Lennon Lane
Suite 125
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T 415.596.3474
myergo@gmail.com

GENERAL NOTES

1. THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
2. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
3. CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE DESIGNER AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA CODES
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN BUILDING CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- CITY OF OAKLAND PUBLIC WORKS DEPARTMENT
- GENERAL ORDER 95 (JUNE 2009 EDITION)

AT&T

5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583

CRAN-RSFR-SFOK7-018

PACE ID:
ROW AT 3950 BROADWAY, OAKLAND, CA 94611
COUNTY: ALAMEDA
SITE TYPE: METAL STREET LIGHT POLE
FA:14394424 HUB:20 USID:192917

SITE IMAGE

DRIVING DIRECTIONS

FROM AT&T WIRELESS OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA

1. Head north-east on Bishop Dr towards Sunset Dr
2. Turn right onto Sunset Dr
3. Use the right 2 lanes to turn right onto Bollinger Canyon Rd
4. Use the right 2 lanes to merge onto I-680 N via the slip road to Sacramento
5. Merge onto I-680 N
6. Use the right 2 lanes to take exit 46A for State Route 24 towards Oakland/Lafayette
7. Continue onto CA-24 W
8. Keep left at the fork to stay on CA-24 W
9. Take exit 4B to merge onto Broadway
10. Merge onto Broadway

INDEX

DRAWING SIGN-OFF

VINCULUMS

	Signature	Date
SITE ACQUISITION:		
PLANNING:		
CONSTRUCTION:		
MANAGEMENT:		

AT&T

	Signature	Date
CONSTRUCTION:		
REAL ESTATE:		
RF ENGINEER:		
EQUIPMENT ENGINEER:		
MW ENG/TRANSPORT:		
OWNER:		

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON A REPLACEMENT EXISTING SEMI-DECORATIVE METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY.

SCOPE OF WORK & SITE COMPLETION CHECKLIST:

1. ANTENNA & ASSOCIATED EQUIPMENT BOXES: INSTALL A NEW TELECOMMUNICATION ANTENNA AND 2 EQUIPMENT BOXES ON AN EXISTING METAL LIGHT POLE
2. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
3. CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS
4. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED, RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
5. SIGNAGE: FCC MANDATED RF WARNING SIGNAGE SHALL FACE CLIMBING SPACE. OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.
6. UTILITY LINES: PROPOSED UTILITY LINES BETWEEN EXISTING POINT OF CONNECTION TO BE IN CONDUIT INSIDE POLE

SITE INFORMATION

OWNER:	CITY OF OAKLAND
APPLICANT:	AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583
LATITUDE:	37.8274040 (NAD 83)
LONGITUDE:	-122.2567750 (NAD 83)
GROUND ELEVATION:	84' AMSL
ADJACENT APN#:	(FO) 12-983-19-4
ZONING JURISDICTION:	CITY OF OAKLAND
CURRENT ZONING:	PUBLIC ROW
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

USA NORTH 811 Call 811 Before You Dig

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:

Meridian Management LLC
785 Oak Grove Road E2
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridian.management

Project Architect:

VINCULUMS
575 LENNON LANE
SUITE 125
WALNUT CREEK, CA 94598
T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-018
PACE ID:
ROW AT 3950 BROADWAY
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

It is a violation of law for any person, unless they are acting under the direction of a licensed Professional Architect/Engineer, to alter this document.

Rev.	Date:	Description:
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

Sheet Title:

T.1

Sheet No.:

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GENERAL CONSTRUCTION NOTES

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBCS REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE SITE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED (IN/E), THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
11. ALL PROPOSED AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN AND/OR WIRELESS TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T WIRELESS SPECIFICATIONS.

GENERAL NOTES FOR EXISTING CELL SITES

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
2. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
3. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW (USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
5. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD PROPOSED TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
6. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

APPLICABLE CODES, REGULATIONS AND STANDARDS

1. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
4. - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
   - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
   - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS® (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
   -IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
5. TIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
   TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
   TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
   TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
6. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
7. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

1. MAINTAIN 42" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MINIMUM 1" SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED.
4. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER 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 COMPACTION NATIVE SOIL FOR BALANCE.
7. WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #14B WARNING TAPE ABOVE #2AWG.

GENERAL GROUNDING NOTES

1. 5/8" x 8' ROD, CAD WELD BELOW GRADE
2. GROUND TESTED AT 5 OHMS OR LESS.
3. #3 GROUND AND BOND WIRE.
4. GROUNDS 2' FROM POLE.
5. PLACE 2- #10 GA WIRES FROM TESCO BREAKER TO PSMC OR STRONG BOX.
6. WOOD MOLDING, STAPLED EVERY 2' AND AT EACH END.

GENERAL CONDUIT NOTES

1. ALL CONDUITS WILL BE SMOOTH WALLED AND EQUIPPED WITH 3/4" PULL ROPE.
2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
3. SCHEDULE 80 CONDUIT FOR RISER USE.
4. 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 2', STUB UP TO THEN CONVERT TO SCHEDULE 80.
5. CONVERT 4" CONDUIT TO 2' AT BASE OF POLE.
6. CONTRACTOR TO STUB UP POLE 10' w/ 3" POWER CONDUIT, POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2"
7. INSTALL STEPS PER PG&E REQUIREMENTS

TYPICAL R.O.W. POLE CONSTRUCTION NOTES

1. CABLE NOT TO IMPEDE 1.5' CLEAR SPACE OFF POLE FACE.
2. ALL CLIMB STEPS MUST TO CONCRETE SHALL HAVE EXTENDED STEPS.
3. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
4. ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMB STEPS TO BE FILLED.
5. 90° (SHORT SWEEP) UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OF BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
6. USE 90° CONNECTOR AT CABLE CONNECTION FOR DWM DOWN ANTENNAS.
7. USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" #632 WIRELESS CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
8. USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. PLACE GPS ON ARM OF SOUTHERN SKY EXPOSURE, AT MINIMUM 6' FROM TRANSMIT ANTENNA WHICH IS 24" AWAY FROM CENTER OF POLE.
10. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

GENERAL NOTES

LEGEND

	PROPOSED ANTENNA		GROUT OR PLASTER		TELCO RUN
	EXISTING ANTENNA		(E) BRICK	T/E	POWER/TELCO RUN
	GROUND ROD		(E) MASONRY	G	GROUNDING CONDUCTOR
	GROUND BUS BAR		CONCRETE		GROUNDING CONDUCTOR
	MECHANICAL GRND. CONN.		EARTH		CONDUIT UNDERGROUND
	GROUND ACCESS WELL		GRAVEL		
	ELECTRIC BOX		PLYWOOD		FUSE. SIZE AND TYPE AS INDICATED.
	TELEPHONE BOX		SAND		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
	LIGHT POLE		WOOD CONT.		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
	IND. MONUMENT		WOOD BLOCKING		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 41-4", 2)14DW, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW2225
	SPOT ELEVATION		STEEL		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 11-4", 2)95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #SWS4W2225
	SET POINT		CENTERLINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1,070W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/350W, HUBBELL LIGHTING CATALOG #NRG-1121
	REVISION		PROPERTY/LEASE LINE		EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, WISAFETY PACK, HUBBELL LIGHTING CATALOG #PRS
	GRID REFERENCE		MATCH LINE	EXIT	COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PREC
	DETAIL REFERENCE		WORK POINT		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #NE-6-50-2-491
	ELEVATION REFERENCE		GROUND CONDUCTOR		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #5894-100-06-1
	SECTION REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QH-505
			OVERHEAD SERVICE CONDUCTORS		LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-01/5W-326
			CHAIN LINK FENCING		5/8" X 10'-0", CU. CND ROD 30" MIN. BELOW GRADE.
			OVERHEAD TELEPHONE/OVERHEAD POWER		5/8" X 10'-0" CU. CND ROD 30" MIN. BELOW GRADE, IN TEST WELL
			OVERHEAD TELEPHONE LINE		CHEMICAL GROUND ROD (SEE GROUND ROD)
			OVERHEAD POWER LINE		CADWELD CONNECTION
			POWER RUN		MECHANICAL CONNECTION
					HALO GROUND CONNECTION
					CIRCUIT BREAKER
					UTILITY METER BASE
					TRANSFORMER
				T	STEPDOWN TRANSFORMER
					RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
				S	TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
				S_{WP}	TOGGLE SWITCH, 1P-120V-15A, "WP"
				(S)	IONEATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO., 7100F
					POLE
					PROPOSED POLE MOUNTED RRMER
					(E) POLE MOUNED RRMR
					PROPOSED PAD MOUNTED RRMER
					(E) PAD MOUNTED RRMER

ABBREVIATIONS

A	AMPERE	HB	HEIGHT
A.B.	ANCHOR BOLT	HDGB	INSULATED COPPER GROUND BUS
ABV.	ABOVE	INCH(")	INCHES
ACCA	ANTENNA CABLE COVER ASSEMBLY	INCH(")	INTERIOR
ADDL	ADDITIONAL	J.B.(E)	JUNCTION BOX
A.F.F.	ABOVE FINISHED FLOOR	LAD	LAG BOLTS
A.F.G.	ABOVE FINISHED GRADE	L.F.	LINEAR FEET (FOOT)
AIC	AMPERE INTERRUPTING CAPACITY	LNGTH	LENGTH
ALUM.	ALUMINUM	L	LONGITUDINAL
ALT.	ALTERNATE	LPS	LOW PRESSURE SODIUM
ANT.	ANTENNA	MAS.	MASONRY
APPROX.	APPROXIMATELY	MAX.	MAXIMUM
ARCH.	ARCHITECT(URAL)	M.B.	MACHINE BOLT
AT.	AMPERE TRIP	MECH.	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MFR.	MANUFACTURER
BLDG.	BUILDING	MIN.	MINIMUM
BOT.	BOTTOM	MISC.	MISCELLANEOUS
BLK.	BLOCK	MLD	MAIN LUGS ONLY
BLKG.	BLOCKING	MTD.	MOUNTED
BM.	BEAM	MTG.	MOUNTING
B.N.	BOUNDARY NAILING	MTL.	METAL
BF.	BRANCH	MTS.	MANUAL TRANSFER SWITCH
BRKR.	BREAKER	N.	NEUTRAL
BTCW.	BARE TINNED COPPER WIRE	PROPOSED	PROPOSED
BTS.	BASE TRANSMISSION SYSTEM	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
B.O.F.	BOTTOM OF FOOTING	NO. (#)	NUMBER
B/U	BACK-UP CABINET	N.T.S.	NOT TO SCALE
C.	CONDUIT	OH	OVERHEAD
CAB.	CABINET	O.C.	ON CENTER
CANT	CANTILEVER(ED)	OPNG	OPENING
CB.	CIRCUIT BREAKER	P.	POLE
C.I.P.	CAST IN PLACE	PAC.	PRECAST CONCRETE
CKT.	CIRCUIT	PCS	PERSONAL COMMUNICATION SERVICES
CLG.	CEILING	PH.	PHASE
CLR.	CLEAR	PLY.	PLYWOOD
COL.	COLUMN	PNLBD	PANELBOARD
CONC.	CONCRETE	PPC	POWER PROTECTION CABINET
CONN.	CONNECTION(OR)	PRC	PRIMARY RADIO CABINET
CONST.	CONSTRUCTION	PRI	PRIMARY
CONT.	CONTINUOUS	P.S.F.	POUNDS PER SQUARE FOOT
D.	PENNY (NAIL)	P.S.I.	POUNDS PER SQUARE INCH
DBL.	DOUBLE	PSIG	PRESSURE SWEATED
DEMA	DEMARCATION	PWR.	POWER (CABINET)
DEPT.	DEPARTMENT	QTY.	QUANTITY
D.F.	DOUGLAS FIR	RAD(IUS)	RADIUS
DIA.	DIAMETER	RCPT.	RECEPTACLE
DIAG.	DIAGONAL	REF(D)	REFERENCE
DIM.	DIMENSION	REINF.	REINFORCE(MENTING)
DWG.	DRAWING(S)	REQ'D	REQUIRE(D)
DWL.	DOWELED	RGS.	RIGID GALVANIZED STEEL
EA.	EACH	SAF.	SAFETY
EGR.	EMERGENCY GENERATOR RECEPTACLE	SCH.	SCHEDULE
EL.	ELEVATION	SCWB.	SOFT DRAWN BARE COPPER
ELEC.	ELECTRICAL	SEC.	SECONDARY
ELEV.	ELEVATOR	SHT.	SHEET
EMT.	ELECTRICAL METALLIC TUBING	SIM.	SIMILAR
E.N.	EDGE NAIL	S.N.	SOLID NEUTRAL
ENCL.	ENCLOSURE	SPEC.	SPECIFICATION(S)
EQ.	EQUAL	SQ.	SQUARE
EQ.	EQUIPMENT	SS.	STAINLESS STEEL
EXIST.(E)	EXISTING	STD.	STANDARD
EXP.	EXPANSION	STL.	STEEL
EXT.	EXTERIOR	STRUC.	STRUCTURAL
FAB.	FABRICATION(OR)	SURF.	SURFACE
FACT.	FACTORY	SW.	SWITCH
F/A	FIRE ALARM	TEL.	TELEPHONE
F.F.	FINISH FLOOR	TEMP.	TEMPORARY
F.G.	FINISH GRADE	THKD.	THICKENED
FIN.	FINISH(ED)	T.N.	TOE NAIL
FLR.	FLOOR	T.O.A.	TOP OF ANTENNA
FLUOR.	FLUORESCENT	T.O.C.	TOP OF CURB
FDN.	FOUNDATION	T.O.F.	TOP OF FOUNDATION
F.O.C.	FACE OF CONCRETE	T.O.P.	TOP OF PLATE (FRAMED)
F.O.M.	FACE OF MASONRY	T.O.S.	TOP OF STEEL
F.O.S.	FACE OF STUD	T.O.W.	TOP OF WALL
F.O.W.	FACE OF WALL	TYP.	TYPICAL
F.S.	FINISH SURFACE	U.G.	UNDER GROUND
FT.(')	FOOT (FEET)	UL	UNDERWRITERS LABORATORY INC.
FTG.	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
FU	FUSE	V.	VOLT
G.	GROUND	VAC	VOLT ALTERNATING CURRENT
GA.	GROWTH (CABINET)	V.I.F.	VERIFY IN FIELD
GA.	GAUGE	W.	W/ (WITH)
GEN.	GENERATOR	W/O	W/O (WITHOUT)
GI.	GALVANIZED	W.I.	WITH
G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER	W/O	WITHOUT
GLB.	GLUE LAMINATED BEAM	WD.	WOOD
GND	GROUND	W.P.	WEATHERPROOF
GPS	GLOBAL POSITIONING SYSTEM	WT.	WEIGHT
GRND	GROUND	XFMR	TRANSFORMER
HDBC	HARD DRAWN COPPER WIRE	XFMR	TRANSFORMER
HDR	HEADER	X-PE	CROSS-LINK POLYETHYLENE
HGR	HANGER	℄	CENTERLINE
HPS	HIGH PRESSURE SODIUM	▯	PLATE, PROPERTY LINE

ABBREVIATIONS

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Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-018
PACE ID:
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OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

GENERAL NOTES
LEGEND
ABBREVIATIONS

Sheet Title:

T.2

Sheet No.:

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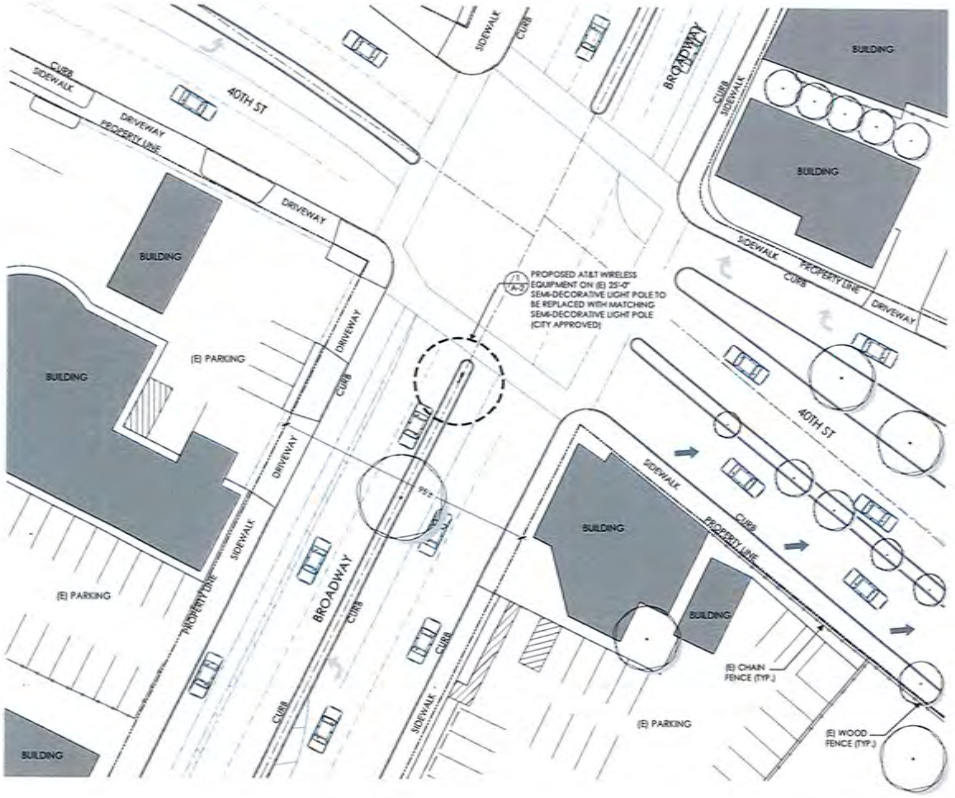

NOTE:
THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

UNDERGROUND UTILITIES NOTE:
THE LOCATIONS AND EXISTENCE OF ANY UNDERGROUND PIPES, STRUCTURES, OR CONDUITS SHOWN ON THIS PLAN WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAY BE EXISTING UTILITIES OTHER THAN THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT SHOWN ON THIS PLAN.

NORTH

OVERALL SITE PLAN

20' 10' 0 10' 20' SCALE 1" = 20'

1

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Designed By: JG Checked: RB

OVERALL SITE PLAN

Sheet Title:

A.1

Sheet No.:

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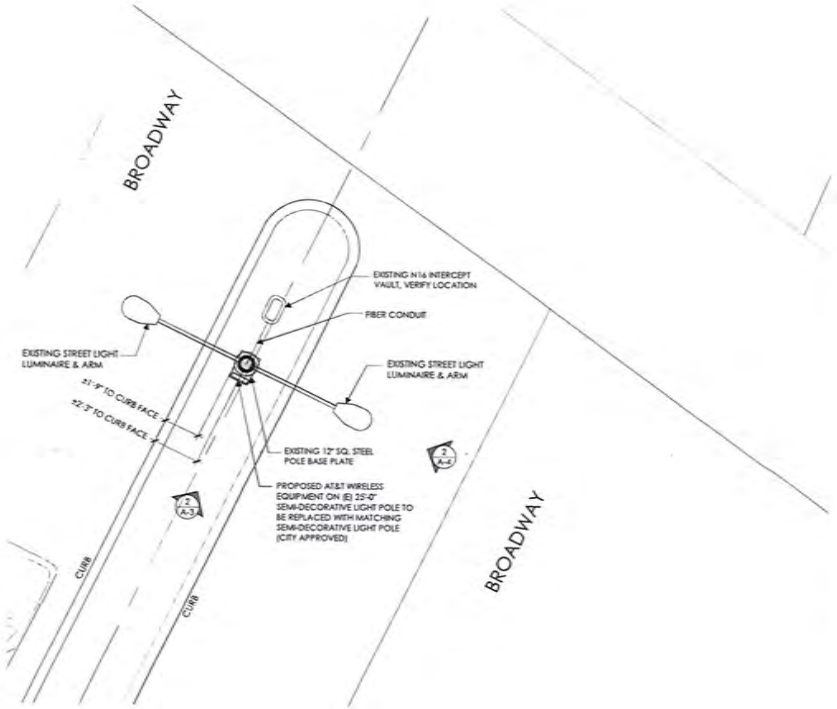
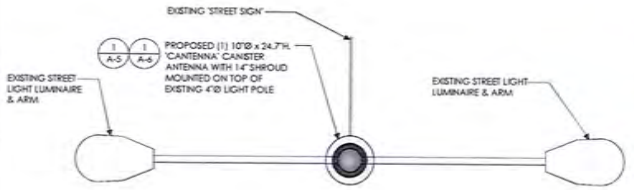
NOTES:

1. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
2. CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS. ALL CABLING TO GROUND-MOUNTED BOXES AND ANTENNAS TO BE INSTALLED INSIDE POLE
3. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED, RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
4. SIGNAGE: FCC MANDATED RF WARNING SIGNAGE SHALL FACE CLIMBING SPACE, OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.

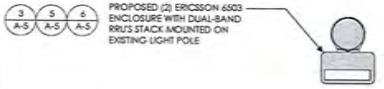


POLE PLAN ENLARGEMENT — SCALE 3/8" = 1'-0" — 1



A. SECTION (CANISTER ANTENNA)

ANTENNA ENLARGEMENT PLAN — SCALE 1" = 1'-0" — 2



B. SECTION (RRUS)

EQUIPMENT ENLARGEMENT PLAN — SCALE 1" = 1'-0" — 3

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90% Zoning Drawings

(E) LIGHT POLE
Drawing Phase:

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POLE PLAN
EQUIPMENT
ENLARGEMENTS

Sheet Title:

A.2

Sheet No.:

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SCALE NOTE:

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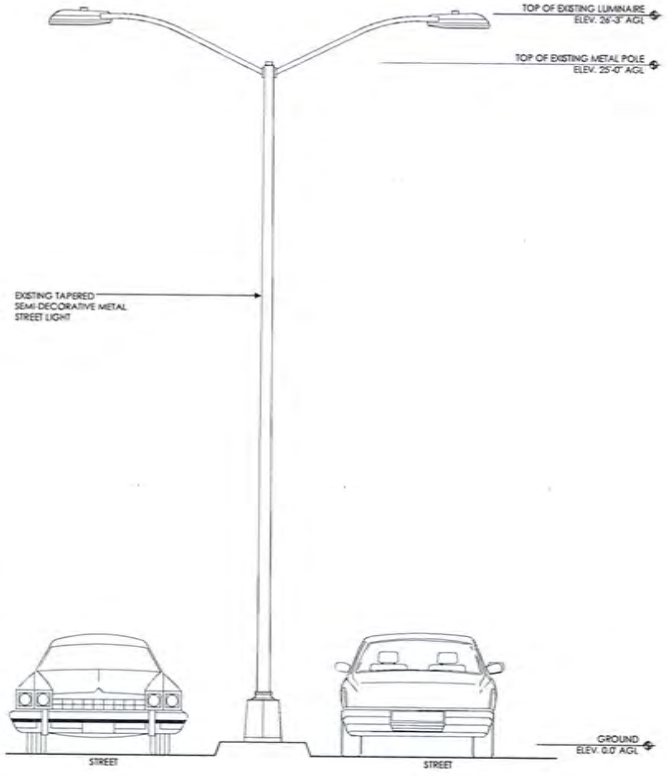
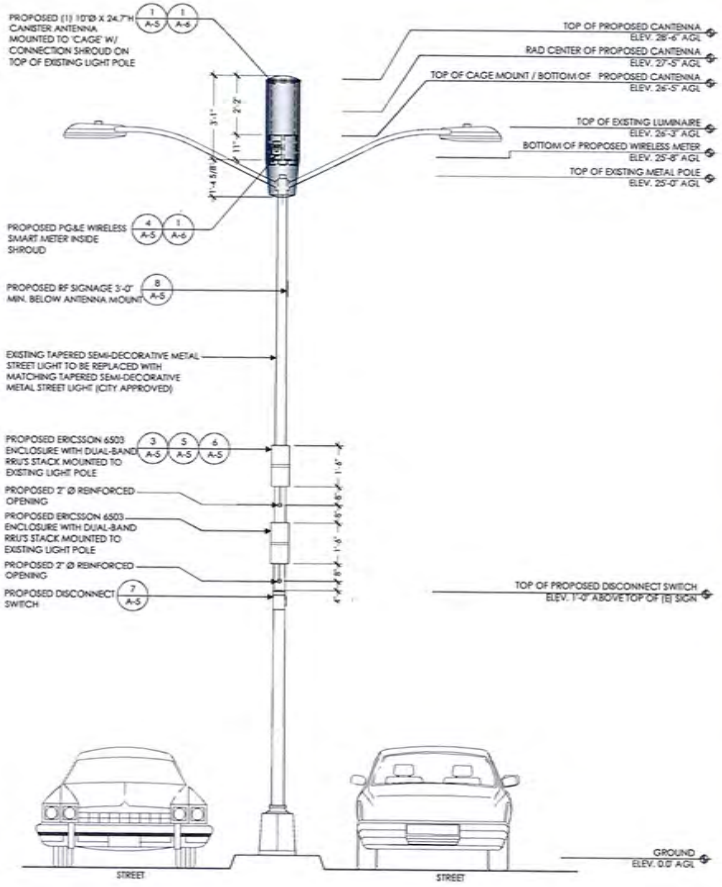


SOUTHWEST ELEVATION - EXISTING

SCALE 1/2" = 1'-0"

1



SOUTHWEST ELEVATION - PROPOSED

SCALE 1/2" = 1'-0"

2

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90% Zoning Drawings

Drawing Phase:

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02	10/02/17	Zoning Dwgs 95%

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Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

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ELEVATIONS

Sheet Title:

A.3

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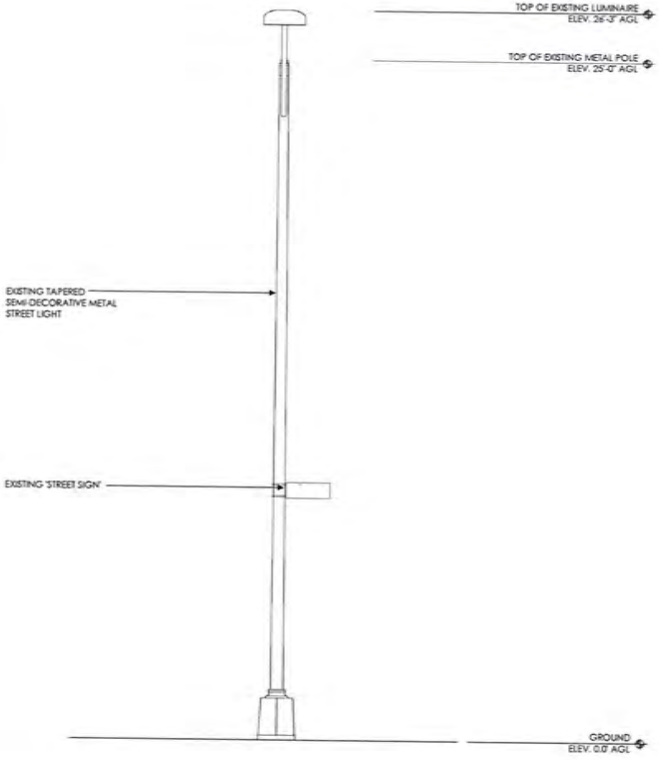
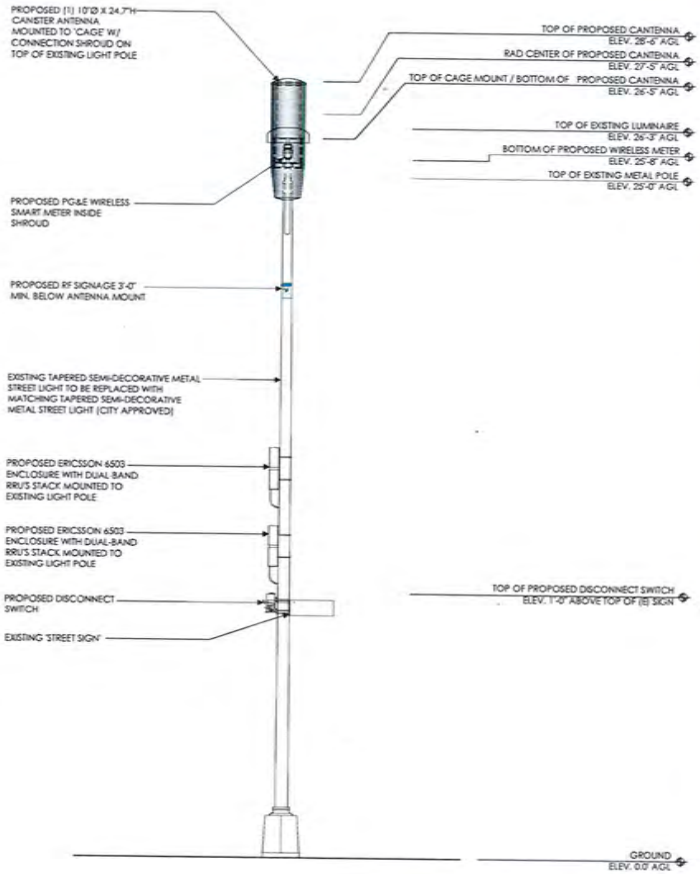


SOUTHEAST ELEVATION - EXISTING

SCALE 1/2" = 1'-0" 1



SOUTHEAST ELEVATION - PROPOSED

SCALE 1/2" = 1'-0" 2

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ELEVATIONS

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A.4

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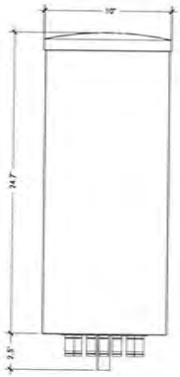
AT&T CANISTER ANTENNA 'CAN-TENNA'

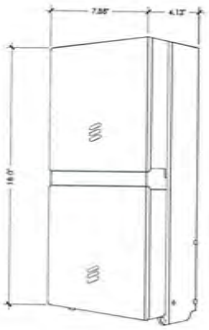
ANTENNA COLOR:	LIGHT GRAY
DIMENSIONS:	10.0"Ø x 24.7" TALL
NET WEIGHT:	19.0 LBS



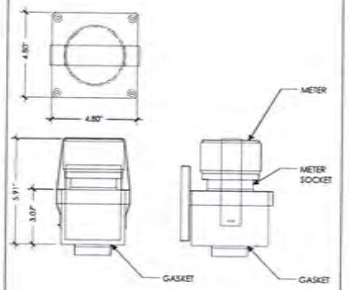
ANTENNA DETAIL | 1

ERICSSON 6503

SINGLE BAND 2203:	2 TX / 2 RX (AWS OR PCS)
DUAL BAND RRU (2 - 2203'S):	4 TX / 4 RX (AWS OR PCS)
MAXIMUM POWER CONSUMPTION:	<100W PER 2203 RADIO- ±95W PER SINGLE-BAND 2203 RADIO ±190W PER DUAL-BAND 2203 RRU
MAX FUSE RATING:	32A
WIRE SIZE:	#10 CU OR #8 ALU



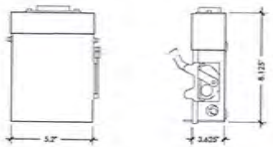
6503 RRU ENCLOSURE | 3



PG&E WIRELESS SMART METER | 4

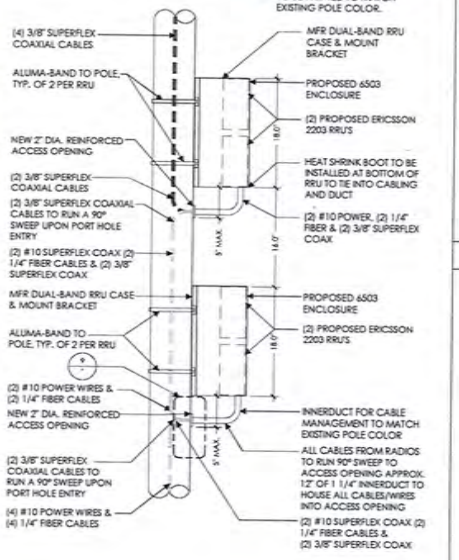
MURRAY LW002GRU SPECIFICATIONS

LOAD CENTER DEPTH:	3.625"
LOAD CENTER WIDTH:	5.2"
LOAD CENTER HEIGHT:	8.125"
WEIGHT:	4.55 LB
LOAD CENTER TYPE:	MAIN LUG
MAX AMPERAGE:	60
MOUNTING TYPE:	PLUG IN
NUMBER OF PHASES:	1
NUMBER OF SPACES:	2
VOLTAGE (VOLTS):	120/240
INDOOR/OUTDOOR:	OUTDOOR
ELECTRICAL PRODUCT TYPE:	LOAD CENTER

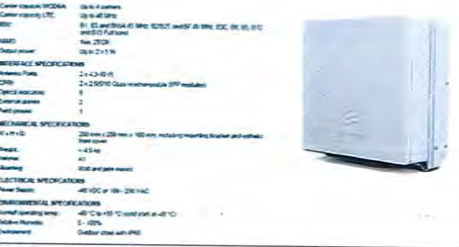


DISCONNECT SWITCH | 7

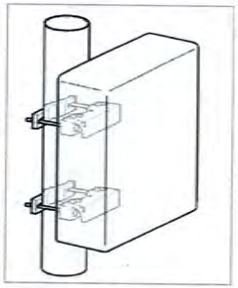
NOTICE SIGNAGE | 8

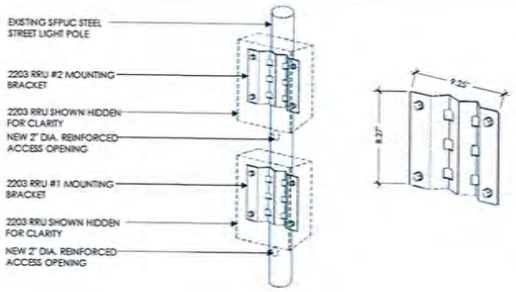


DUAL BAND RRU MOUNT | 2



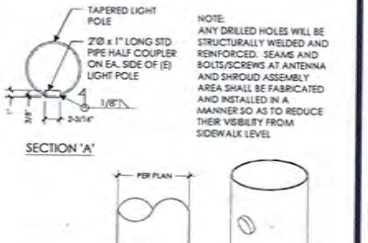
ERICSSON 2203 RRU | 5





8.27"L x 9.25"W HOSE PLATE (ALUMA-BAND TO POLE)

6503 RRU-POLE MOUNTING DETAILS | 6



VERTICAL ACCESS PORT | 9

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CRAN-RSFR-SFOK7-018
PACE ID:
ROW AT 3950 BROADWAY
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

It is a violation of law for any person, unless they are acting under the direction of a licensed Professional Architect/Engineer, to alter this document.

Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:

A.5

Sheet No.:

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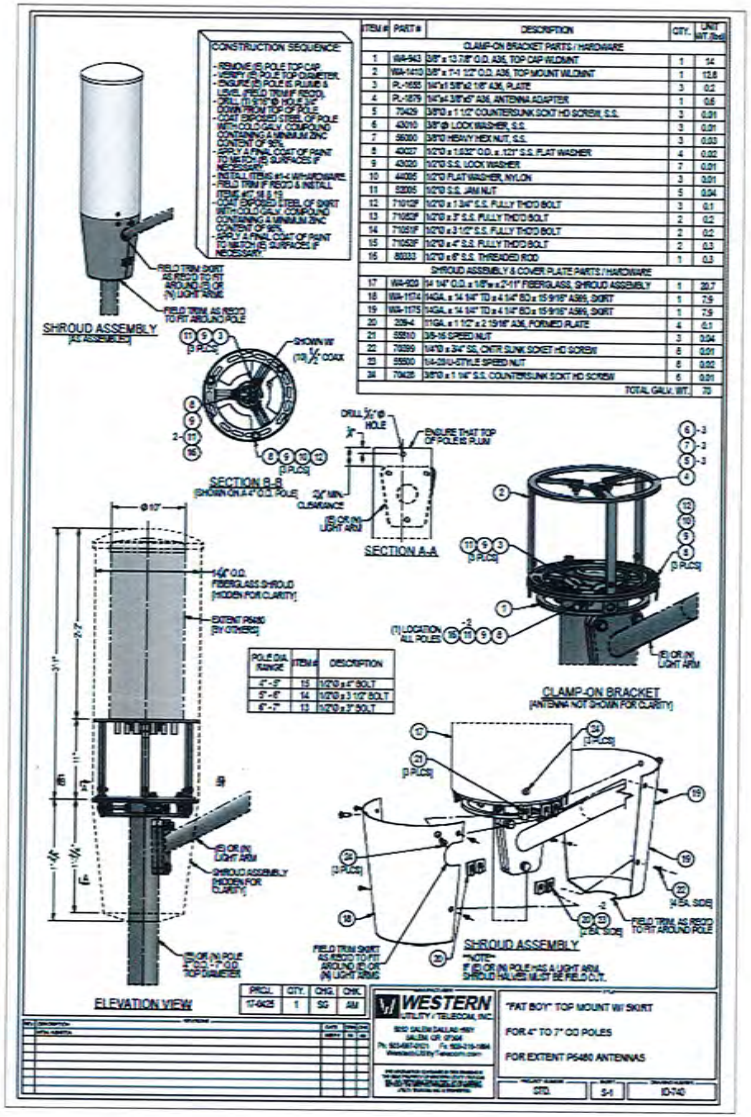

ITEM #	PART #	DESCRIPTION	QTY.	UNIT WT. (lbs)
		CLAMP-ON BRACKET PARTS / HARDWARE		
1	WA-943	3/8" x 13 7/8" O.D. A36, TOP CAP W/DMNT	1	14
2	WA-1410	3/8" x 17-1 1/2" O.D. A36, TOP MOUNT W/DMNT	1	12.8
3	PL-1655	1/4"x1 5/8"x2 1/8" A36, PLATE	3	0.2
4	PL-1679	1/4"x4 3/8"x5" A36, ANTENNA ADAPTER	1	0.6
5	70429	3/8"Ø x 1 1/2" COUNTERSUNK SCKT HD SCREW, S.S.	3	0.01
6	43010	3/8" Ø LOCK WASHER, S.S.	3	0.01
7	56360	3/8"Ø HEAVY HEX NUT, S.S.	3	0.03
8	40027	9/32"Ø x 1.632" O.D. x .107" S.S. FLAT WASHER	4	0.02
9	43020	5/16" S.S. LOCK WASHER	7	0.01
10	44095	5/16" FLAT WASHER, NYLON	3	0.01
11	53895	5/16"Ø S.S. JAM NUT	5	0.04
12	71012F	5/16"Ø x 1 3/4" S.S. FULLY THDD BOLT	3	0.1
13	71062F	5/16"Ø x 2" S.S. FULLY THDD BOLT	2	0.2
14	71081F	5/16"Ø x 2 1/2" S.S. FULLY THDD BOLT	2	0.2
15	71092F	5/16"Ø x 4" S.S. FULLY THDD BOLT	2	0.3
16	80033	5/16"Ø x 6" S.S. THREADED ROD	1	0.3
		SHROUD ASSEMBLY & COVER PLATE PARTS / HARDWARE		
17	WA-909	34 1/4" O.D. x 1/8"w x 2'-11" FIBERGLASS, SHROUD ASSEMBLY	1	20.7
18	WA-1174	14GA. x 14 1/4" TD x 4 1/4" BD x 15 9/16" ASMY, SKIRT	1	7.9
19	WA-1175	14GA. x 14 1/4" TD x 4 1/4" BD x 15 9/16" ASMY, SKIRT	1	7.9
20	209-4	11GA. x 1 1/2" x 2 15/16" A36, FORMED PLATE	4	0.1
21	55810	3/8-16 SPEED NUT	3	0.04
22	70399	5/16"Ø x 3/4" SS, CNTR SUNK SCKT HD SCREW	6	0.01
23	55800	1/4-20U-STYLE SPEED NUT	6	0.02
24	70426	3/8"Ø x 1 1/4" S.S. COUNTERSUNK SCKT HD SCREW	6	0.01
		TOTAL GALV. WT.		70

POLE DIA. RANGE	ITEM #	DESCRIPTION
4"-5"	15	1/2"Ø x 4" BOLT
5"-6"	14	1/2"Ø x 3 1/2" BOLT
6"-7"	13	1/2"Ø x 3" BOLT

PROJ.	QTY.	CHG.	CHK.
17-6425	1	SG	AM

DTD.	S-1	ID-740

POLE TOP MOUNT W/ SKIRT ASSEMBLY DETAIL

1

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:

Meridian Management LLC
785 Oak Grove Road EC
Suite 250
Concord, CA 94518
T 707.592.5926
www.meridian-management

Project Architect:

VINCULUMS
575 LENNON LANE
SUITE 125
WALNUT CREEK, CA 94598
T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-018
PACE ID:
ROW AT 3950 BROADWAY
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:

A.6

Sheet No.:

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view from Braodway looking northeast at site

AT&T Wireless

CRAN-RSFR-SFOK7-018
3950 Broadway, Oakland, CA
Photosims Produced on 9-29-2017

Existing

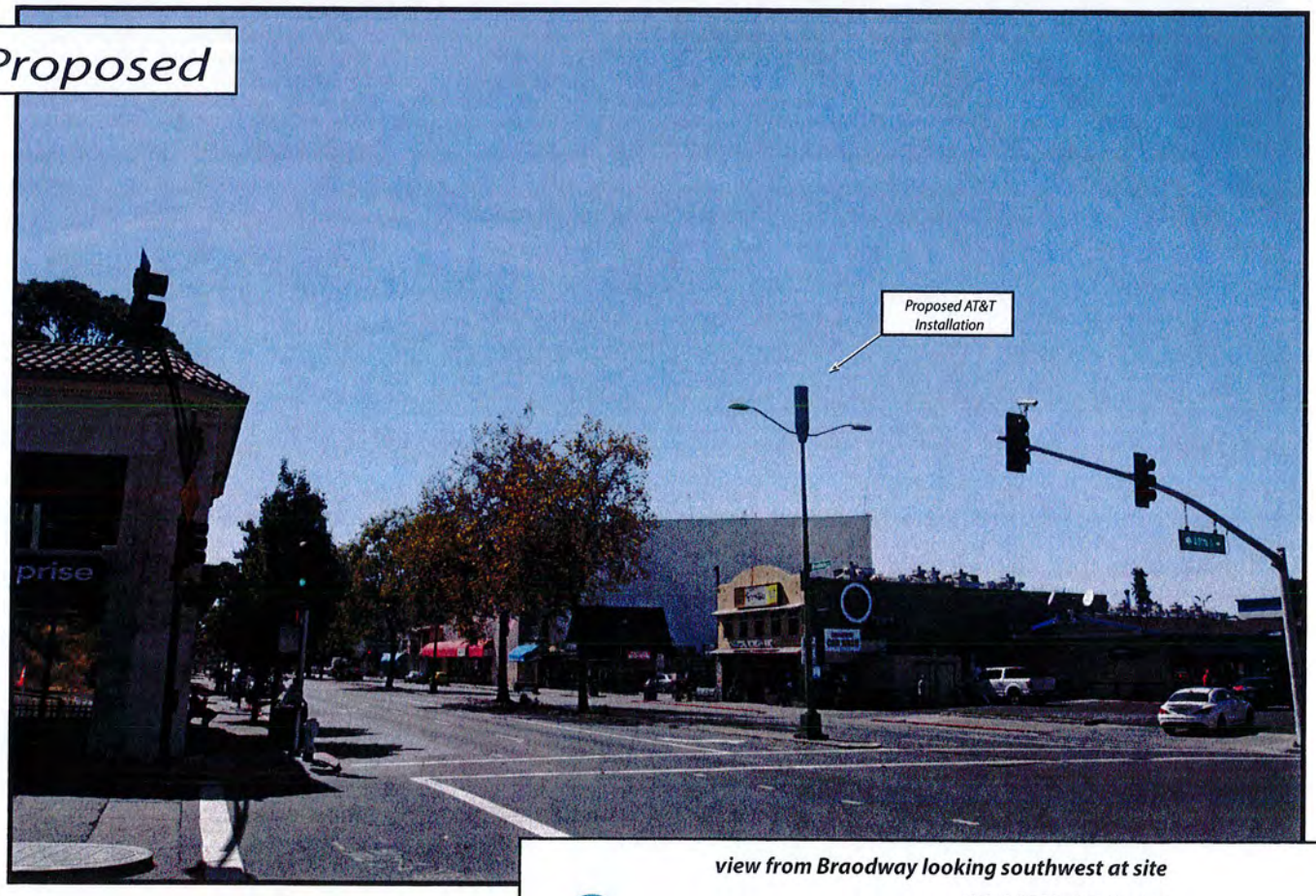
Proposed

EXHIBIT C

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing

Proposed



view from Braodway looking southwest at site

AT&T Wireless

CRAN-RSFR-SFOK7-018
3950 Broadway, Oakland, CA
Photosims Produced on 9-29-2017

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

ALTERNATIVE DESIGN ANALYSIS

SFOK7_018

APN:
12-983-19-4
LAT/LONG:
37.8274040, -122.2567750

The project is located in an area with existing commercial structures. AT&T considered alternative monopole designs (see below) in this area but none of these designs are as desirable from a planning perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area.

Alternative light pole designs considered

AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SFOK7-018)
3950 Broadway • Oakland, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate its small cell (No. CRAN-RSFR-SFOK7-018) proposed to be sited in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Executive Summary

AT&T proposes to install an omnidirectional cylindrical antenna on a light pole sited in the public right-of-way at 3950 Broadway in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission ("FCC") evaluate its actions for possible significant impact on the environment. A summary of the FCC's exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

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

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called "radios") 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 typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means

that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

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

Site and Facility Description

Based upon information provided by AT&T, including drawings by Meridian Management LLC, dated September 22, 2017, it is proposed to install one Galtronics Model P6480, 2-foot tall, omnidirectional cylindrical antenna, on top of an existing light pole sited in the public right-of-way at the tip of the median strip on Broadway at the southwest side of the intersection with 40th Street. The antenna would employ no downtilt and would be mounted at an effective height of about 27½ feet above ground. The maximum effective radiated power in any direction would be 80 watts for PCS service. There are reported no other wireless telecommunications base stations at this site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.0011 mW/cm^2, which is 0.11% of the applicable public exposure limit. The maximum calculated level at any nearby building is 0.18% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

No Recommended Mitigation Measures

Due to its mounting location and height, the AT&T antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The occupational limit is calculated to extend 4 inches from the antenna and, due to this short distance, the proposed operation is considered intrinsically compliant with that limit.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by AT&T Mobility, at 3950 Broadway 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 small cells.

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, 2019. 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.

William F. Hammett, P.E.
707/996-5200

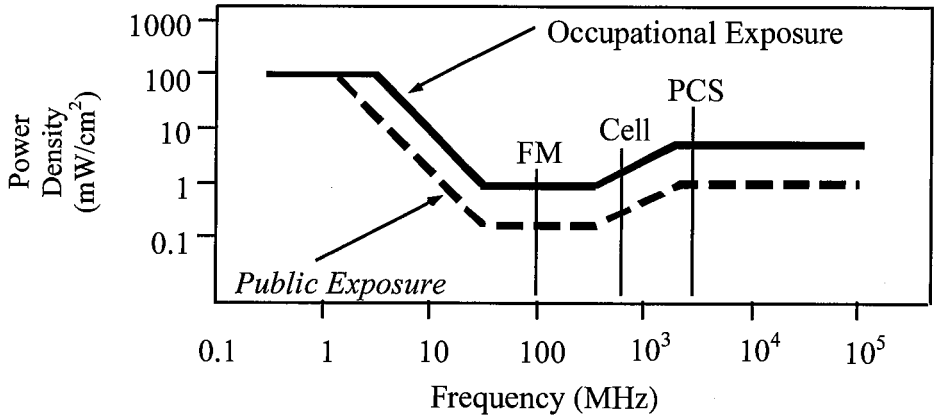
November 3, 2017

FCC Radio Frequency Protection Guide

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

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

Frequency	Electromagnetic Fields (f is frequency of emission in MHz)					
Applicable Range (MHz)	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm^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	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	$3.54\sqrt{f}$	*$1.59\sqrt{f}$*	$\sqrt{f}/106$	*$\sqrt{f}/238$*	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/cm^2,

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

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:

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

where ERP = total ERP (all polarizations), in kilowatts,
RFF = relative field factor at the direction to the actual point of calculation, and
D = distance from the center of radiation to the point of calculation, in meters.

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

Vinculums

November 20, 2017

City Planner
Oakland Planning Dept.
250 Frank Ogawa Plaza
Oakland, CA 94612

Re: Proposed AT&T Small Cell Node Installation
Applicant: New Cingular Wireless PCS, LLC (dba AT&T Mobility)
Nearest Site Address: Public Right of Way near 3950 Broadway, Oakland, CA 94611
Site ID: CRAN RSFR SFOK7-018 ("Node 018")

Dear City Planner,

On behalf of New Cingular Wireless PCS, LLC (doing business as AT&T Mobility), this letter and attached materials are to apply for the appropriate Planning permit to install a small cell node in the public right-of-way at the above-referenced location ("Node 018" or the "Node").[1] The following is an explanation of the existing site, a project description of the designed facility, the project purpose and justifications in support of this proposal.

A. Project Description.

The proposed location for our facility currently consists of an approximate 25 feet tall City-owned light pole in the public right-of-way.

AT&T proposes to affix one canister antenna within an antenna shroud on top of the pole, extending up to a height of about 28.6 feet. On the pole between about 10 feet and 19 feet above ground, AT&T proposes to install two remote radio units and (if necessary) a miniature power disconnect switch. This facility or "Node" will be connected to underground fiber optic telecommunications lines and power. All equipment will be painted to match the pole. Our proposal is depicted in the attached design drawings and photographic simulations.

B. Project Purpose.

The purpose of this project is to provide AT&T third and fourth generation (3G and 4G) wireless voice and data coverage and capacity to the surrounding area. These wireless services include mobile telephone, wireless broadband, emergency 911, data transfers, electronic mail, Internet, web browsing, wireless applications, wireless mapping and video streaming. The proposed node is part of a larger small cell deployment providing wireless coverage and capacity to areas of Oakland that are otherwise very difficult or impossible to cover using traditional macro wireless telecommunications facilities.

[1] AT&T expressly reserves all rights concerning the city's jurisdiction to assert zoning regulation over the placement of wireless facilities in the public rights-of-way.

Vinculums Services LLC
575 Lennon Lane, Suite 125 • Walnut Creek, CA 94598
(415) 596-3474 • myergovich@vinculums.com

Vinculums

A small cell network consists of a series of radio access nodes connected to small telecommunications antennas, typically mounted on existing poles within the public rights-of-way, to distribute wireless telecommunications signals. Small cell networks provide telecommunications transmission infrastructure for use by wireless services providers. These facilities allow service providers such as AT&T to establish or expand their network coverage and capacity. The nodes are linked by fiber optic cable that carry the signal stemming from a central equipment hub to a node antenna.

C. Project Justification, Alternative Site and Design Analysis.

The proposed Node is an integral part of AT&T's overall small cell deployment to cover transient traffic along the roadways and provide in-building service to the surrounding area. Using an existing pole is the least intrusive means to meet AT&T's wireless coverage and capacity needs in the area. This Node best uses existing infrastructure, adding small equipment without disturbing the character of the neighborhoods served. Deploying a small cell node at an existing pole location minimizes any visual impact by utilizing an inconspicuous spot.

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

As this application seeks authority to install a wireless telecommunication facility, the FCC's Shot Clock Order[2] requires the city to issue its final decision on AT&T's application within 150 days. We respectfully request expedited review and approval of this application. Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,
VINCULUMS SERVICES, LLC

Matthew S. Yergovich
FOR AT&T MOBILITY

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

Vinculums Services LLC
575 Lennon Lane, Suite 125 • Walnut Creek, CA 94598
(415) 596-3474 • myergovich@vinculums.com

ALTERNATIVE SITING ANALYSIS

SFOK7_018

APN:
12-983-19-4
LAT/LONG:
37.8274040, -122.2567750

The project is located in an area with existing commercial structures. AT&T considered alternative sites on other utility poles in this area but none of these sites are as desirable from a service coverage perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area. The proposed location is approximately equidistant from other small cell nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Alternative light poles considered

37.827434, -122.256546

37.827066, -122.257004

California Public Utilities Commission

Utility Contact System Search

The Utility Contact System (UCS) is the Communications Division's database for the primary regulatory contact for each telephone corporation operating in California. The Communications Division sends impc regulatory notices to the regulatory contact for each telephone corporation via e-mail, so it is important for primary regulatory contacts to update their UCS record if their e-mail address changes.

Telephone corporations may update UCS contact information using the form on the following page: **Carrier Reporting Requirements**

A description of the different utility types (granted authorities) are listed on the following page: **Utility Type Descriptions**

Search Utility Name Search Utility Number 3060 Search Clear

Utility Name	Alias (DBA Name)	Utility Number	Street Address	City	State	Zip	Phone Number	Email	Utility Type	CPCN Appr
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	430 BUSH STREET	SAN FRANCISCO	CA	94108	(415) 778-1299	att-regulatory-ca@att.com	CEC	12-21-1995
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	7405 GREENHAVEN DRIVE	SACRAMENTO	CA	95831	(800) 498-1912	west.region.oopsac@awsmail.att.com	CEC	12-21-1995
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	11760 US HIGHWAY ONE, WEST TOWER	NORTH PALM BEACH	FL	33048	770-240-8849		CEC	12-21-1995

Save Search Results as CSV Spreadsheet

Comments & Feedback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COCKTAILS & KITCHEN
CHINA HUT
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IN-TOWN
Truck Share 24/7
A3375
NOTICE
OF OAKLAND
Life can change in an instant.
40th St
KAYES

PROJECT TEAM

APPLICANT:
AT&T
5001 Executive Parkway
San Ramon, Ca 94583

ARCHITECT/ENGINEER:
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Meridian Management LLC
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T 707.592.5924
rodney@meridian.management

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Walnut Creek, CA 94598
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myergo@gmail.com

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Suite 125
Walnut Creek, CA 94598
T 415.596.3474
myergo@gmail.com

CONSTRUCTION MANAGER:
Vinculums Services
575 Lennon Lane
Suite 125
Walnut Creek, CA 94598

GENERAL NOTES

1. THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON AN EXISTING METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
2. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT DRAINAGE, NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.
3. CHANGES FROM THE APPROVED PLANS DURING THE COURSE OF CONSTRUCTION SHALL CAUSE CONSTRUCTION TO BE SUSPENDED UNTIL SUCH TIME AS THE PLANS CAN BE AMENDED BY THE DESIGNER AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA CODES
- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA MECHANICAL CODE
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRIC CODE
- 2016 GREEN BUILDING CODE
- 2016 EDITION OF TITLE 24 ENERGY STANDARDS
- ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
- CITY / COUNTY ORDINANCES
- CITY OF OAKLAND PUBLIC WORKS DEPARTMENT
- GENERAL ORDER 95 (JUNE 2009 EDITION)

AT&T

5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583

CRAN-RSFR-SFOK7-017

PACE ID:
ROW AT 4351 BROADWAY, OAKLAND, CA 94611
COUNTY: ALAMEDA
SITE TYPE: METAL STREET LIGHT POLE
FA:14394424 HUB:20 USID:192916

SITE IMAGE

DRIVING DIRECTIONS

FROM AT&T WIRELESS OFFICE AT 5001 EXECUTIVE PARKWAY, SAN RAMON, CA

1. Head north-east on Bishop Dr towards Sunset Dr
2. Turn right onto Sunset Dr
3. Use the right 2 lanes to turn right onto Bollinger Canyon Rd
4. Use the right 2 lanes to merge onto I-680 N via the slip road to Sacramento
5. Merge onto I-680 N
6. Use the right 2 lanes to take exit 46A for State Route 24 towards Oakland/Lafayette
7. Continue onto CA-24 W
8. Keep left at the fork to stay on CA-24 W
9. Take exit 4B to merge onto Broadway
10. Merge onto Broadway

INDEX

DRAWING SIGN-OFF

VINCULUMS

	Signature	Date
SITE ACQUISITION:		
PLANNING:		
CONSTRUCTION:		
MANAGEMENT:		

AT&T

	Signature	Date
CONSTRUCTION:		
REAL ESTATE:		
RF ENGINEER:		
EQUIPMENT ENGINEER:		
MW ENG/TRANSPORT:		
OWNER:		

PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR THE AT&T WIRELESS NETWORK CONSISTING OF THE INSTALLATION AND OPERATION OF AN ANTENNA AND ASSOCIATED EQUIPMENT ON A REPLACEMENT EXISTING SEMI-DECORATIVE METAL LIGHT POLE IN THE PUBLIC RIGHT-OF-WAY.

SCOPE OF WORK & SITE COMPLETION CHECKLIST:

1. ANTENNA & ASSOCIATED EQUIPMENT BOXES: INSTALL A NEW TELECOMMUNICATION ANTENNA AND 2 EQUIPMENT BOXES ON AN EXISTING METAL LIGHT POLE
2. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
3. CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS
4. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED, RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
5. SIGNAGE: FCC MANDATED RF WARNING SIGNAGE SHALL FACE CLIMBING SPACE, OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.
6. UTILITY LINES: PROPOSED UTILITY LINES BETWEEN EXISTING POINT OF CONNECTION TO BE IN CONDUIT INSIDE POLE

SITE INFORMATION

OWNER:	CITY OF OAKLAND
APPLICANT:	AT&T 5001 EXECUTIVE PARKWAY SAN RAMON, CA 94583
LATITUDE:	37.8324190 (NAD 83)
LONGITUDE:	-122.2536670 (NAD 83)
GROUND ELEVATION:	111' AMSL
ADJACENT APN#:	(IFO) 13-1106-1
ZONING JURISDICTION:	CITY OF OAKLAND
CURRENT ZONING:	PUBLIC ROW
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS FACILITY

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

USA NORTH 811
Call 811 Before You Dig

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Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

It is a violation of law for any person, unless they are acting under the direction of a licensed Professional Architect/Engineer, to alter this document.

Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

TITLE SHEET

Sheet Title:

T.1

Sheet No.:

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EXHIBIT D

GENERAL NOTES

GENERAL CONSTRUCTION NOTES

1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SEE WORK OR CONSTRUCTION.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
7. THE BUILDING DEPARTMENT ISSUING THE PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
11. ALL PROPOSED AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
14. INCLUDE MISC. ITEMS PER AT&T WIRELESS SPECIFICATIONS.

GENERAL NOTES FOR EXISTING CELL SITE

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
2. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
3. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
5. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD PROPOSED TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
6. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

APPLICABLE CODES, REGULATIONS AND STANDARDS

1. SUBCONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3. SUBCONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
4. - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD/LRFD EDITION
   - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
   - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
   - IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE A/C POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
5. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS (TELCORDIA (GR63) NEBSTR)
   EQUIPMENT BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
   TELCORDIA GR-347 GENERAL OFFICE POWER WIRING
   TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
   TELCORDIA GR-1503 COAXIAL CABLE CONNECTORS
6. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS.
7. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL TRENCHING NOTES

1. MAINTAIN 42" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
2. MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
3. MINIMUM 1" SAND CUSHIONING BELOW CONDUITS, AND 4" COVERING ON TOP OF CONDUITS REQUIRED.
4. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FEED MAY RUN IN SAME TRENCH AS TELCO CONDUITS, TRANSITIONING OR DIVERSIONS WILL BE SLURRY BACKFILLED.
5. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR A/C CAP.
6. FLOAT SLURRY 10' FROM GRADE AND FILL WITH COMPACTION NATIVE SOIL FOR BALANCE
7. WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND 6" BE WARNING TAPE ABOVE RING.

GENERAL GROUNDING NOTES

1. 5/8" x 8' ROD, CAD WELD BELOW GRADE
2. GROUND TESTED AT 5 OHMS OR LESS.
3. #2 GROUND AND BOND WIRE
4. GROUNDS 3' FROM POLE
5. PLACE 2 #10 GA WIRES FROM TELCO BREAKER TO PRIMECOM STRONG BOX.
6. WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END.

GENERAL CONDUIT NOTES

1. ALL CONDUITS WILL BE WANDERLIED AND EQUIPPED WITH SURE-PULL WIRE.
2. SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
3. SCHEDULE 80 CONDUIT FOR RISER USE.
4. 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 12', STUB UP 10' THEN CONVERT TO SCHEDULE 80.
5. CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
6. CONTRACTOR TO STUB UP POLE 10' w/ 2" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 2" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.
7. INSTALL STEPS PER PG&E REQUIREMENTS.

TYPICAL ROW POLE CONSTRUCTION NOTES

1. CABLE NOT TO IMPEDE 1.5" CLEAR SPACE OFF POLE FACE.
2. ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
3. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
4. ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMB STEPS TO BE PLUGGED.
5. 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
6. USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
7. USE CABLE CLAMPS TO SECURE CABLE TO ARMS, PLACE 2" AT&T WIRELESS CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
8. USE 1/2" DIA. CABLE FOR ANTENNAS UNLESS OTHERWISE SPECIFIED.
9. PLACE GPS ON ARM OF SOUTHERN SKY EXPOSURE AT MINIMUM 6' FROM TRANSMIT ANTENNA WHICH IS 24" AWAY FROM CENTER OF POLE
10. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

LEGEND

	PROPOSED ANTENNA
	EXISTING ANTENNA
	GROUND ROD
	GROUND BUS BAR
	MECHANICAL GRND. CONN.
	GROUND ACCESS WELL
E	ELECTRIC BOX
T	TELEPHONE BOX
	LIGHT POLE
	FND. MONUMENT
	SPOT ELEVATION
	SET POINT
	REVISION
	GRID REFERENCE
	DETAIL REFERENCE
	ELEVATION REFERENCE
	SECTION REFERENCE

	GROUT OR PLASTER
	(E) BRICK
	(E) MASONRY
	CONCRETE
	EARTH
	GRAVEL
	PLYWOOD
	SAND
	WOOD CONT.
	WOOD BLOCKING
	STEEL
	CENTERLINE
	PROPERTY/LEASE LINE
	MATCH LINE
	WORK POINT
	GROUND CONDUCTOR
-A-	COAXIAL CABLE
-O/H-	OVERHEAD SERVICE CONDUCTORS
-X X-	CHAIN LINK FENCING
-OHT/OHP-	OVERHEAD TELEPHONE/OVERHEAD POWER
-OHT-	OVERHEAD TELEPHONE LINE
-OHP-	OVERHEAD POWER LINE
-E E-	POWER RUN

	TELCO RUN
T/E	POWER/TELCO RUN
G	GROUNDING CONDUCTOR
	GROUNDING CONDUCTOR
	CONDUIT UNDERGROUND
	FUSE, SIZE AND TYPE AS INDICATED.
	SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, 50 D CATALOG NO.: H222NRB
	MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
	LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #HSW2321
	LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/75W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSW2321
	LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NEG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NEG-120
	EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #1931
EXIT	COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #1981
	EMERGENCY LIGHTING, 2/30W, HUBBELL LIGHTING CATALOG #M6-6-30-2-NRY
	LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
	LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/200W, HUBBELL LIGHTING CATALOG #QR-505
	LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MEC-01754-336
	5/8" X 10'-0" ,CU, GND ROD 30" MIN. BELOW GRADE.

	5/8" X 10'-0", CU, GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
	CHEMICAL GROUND ROD (KIT GROUND RODS)
	CADWELD CONNECTION
	MECHANICAL CONNECTION
	HALO GROUND CONNECTION
	CIRCUIT BREAKER
	UTILITY METER BASE
	TRANSFORMER
T	STEPDOWN TRANSFORMER
	RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
S	TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
S_{WP}	TOGGLE SWITCH, 1P-120V-15A, "WP"
S	IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO.: 7100R
	POLE
	PROPOSED POLE MOUNTED XFMR
	(E) POLE MOUNTED XFMR
	PROPOSED PAD MOUNTED XFMER
	(E) PAD MOUNTED XFMER

ABBREVIATIONS

A	AMPERE
A.B.	ANCHOR BOLT
ABV.	ABOVE
ACCA	ANTENNA CABLE COVER ASSEMBLY
ADDL	ADDITIONAL
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANT.	ANTENNA
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
AT	AMPERE TAP
AWG	AMERICAN WIRE GAUGE
BATT.	BATTERY
BD.	BOARD
BLDG.	BUILDING
B.N.	BOOM
BLKG.	BLOCKING
BM.	BEAM
B.N.	BOUNDARY NAILING
BR	BRANCH
BRKR.	BREAKER
BTOW.	BARE TINNED COPPER WIRE
BTS.	BASE TRANSCEIVER SYSTEM
B.O.F.	BOTTOM OF FOOTING
B/O	BACK-UP CABINET
C	CONDUIT
CAB.	CABINET
CANT.	CANTILEVER(ED)
CB	CIRCUIT BREAKER
C.I.P.	CAST IN PLACE
CKT.	CIRCUIT
C.L.G.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION(OR)
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
Ø	PENNY (NAILS)
DBL.	DOUBLE
DEM.	DEMAND
DEPT.	DEPARTMENT
DET.	DOUGLAS FIR
DIA.	DIAMETER
DIAG.	DIAGONAL
DN.	DOWN, DIMENSION
DWG.	DRAWING(S)
DWL.	DOWELED
EA.	EACH
EGR	EMERGENCY GENERATOR RECEPTACLE
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
E.N.	EDGE NAIL
ENCL.	ENCLOSURE
ENGR.	ENGINEER
EQ.	EQUAL
EXIST.(E)	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FAB.	FABRICATION(OR)
FACT.	FACTOR
F.A.	FIRE ALARM
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FIN.	FINISH(ED)
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.N.	FACE NAIL
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FP.	FIREPROOF
FT.	FOOT (FEET)
FTG.	FOOTING
FU	FUSE
G	GROUND
GR.	GROWTH (CABINET)
GA.	GAUGE
GEN.	GENERATOR
GLV.	GALVANIZED
G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER
GSB.	GLUE LAMINATED BEAM
GND.	GROUND
GPS	GLOBAL POSITIONING SYSTEM
GRND.	GROUND
HDW.	HANG DRAWN COPPER WIRE
HDR.	HEADER
HGR.	HANGER
HPS	HIGH PRESSURE SODIUM

HT.	HEIGHT
HDGB.	EXPOSED COPPER GROUND BUS
I.D.	INSIDE DIAMETER
INCH(ES)	INCH(ES)
INT.	INTERIOR
I.R.P.	IRRIGATION PIPE
J.B.	J-BOX BOLTS
LBS.	LENGTH
L	LONG (LONGITUDINAL)
LPS	LOW PRESSURE SODIUM
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY ONLY
MTD.	MOUNTED
MTG.	MOUNTING
MTL.	METAL
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
PROPOSED	PROPOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NO.(#)	NUMBER
N.T.S.	NOT TO SCALE
OH	OVERHEAD
O.C.	ON CENTER
OPNG.	OPENING
P	POLE
PCC	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PH	PHASE
PLY.	PLYWOOD
PNLBD	PANELBOARD
PPC	POWER PROTECTION CABINET
PRC	PRIMARY RADIO CABINET
PRI.	PRIMARY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PWR.	POWER (CABINET)
QTY.	QUANTITY
RAD.(R)	RADIUS
RCPT.	RECEPTACLE
REF.	REFERENCE
REINF.	REINFORCE(MENT)(ING)
REQ'D.	REQUIRED
RGS.	RIGID GALVANIZED STEEL
SAN.	SANITY
SCH.	SCHEDULE
SDBC.	SOFT DRAWN BARE COPPER
SEC.	SECOND(ARY)
SHT.	SHEET
SIM.	SIMILAR
S.N.	SOLID NEUTRAL
SPEC.	SPECIFICATION(S)
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUC.	STRUCTURAL
SURF.	SURFACE
SW.	SWITCH
TEL.	TELEPHONE
TEMP.	TEMPORARY
THK.	THICK(NESS)
T.N.	TOE NAIL
T.O.A.	TOP OF ANTENNA
T.O.C.	TOP OF CURB
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE (PARAPET)
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
UG	UNDER GROUND
UL	UNDERWRITERS LABORATORY INC.
U.N.O.	UNLESS NOTED OTHERWISE
V.	VOLT
VAC.	VOLT ALTERNATING CURRENT
VERT.	VERTICAL
W	WATT OR WIDE
W.C.	WIRE CLOTH
W.I.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.P.	WEATHERPROOF
WT.	WEIGHT
XFER	TRANSFER
XFMR.	TRANSFORMER
XLPE	CROSS-LINK POLYETHELENE
℄	CENTERLINE
⏥	PLATE, PROPERTY LINE

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Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

GENERAL NOTES
LEGEND
ABBREVIATIONS

Sheet Title:

T.2

Sheet No.:

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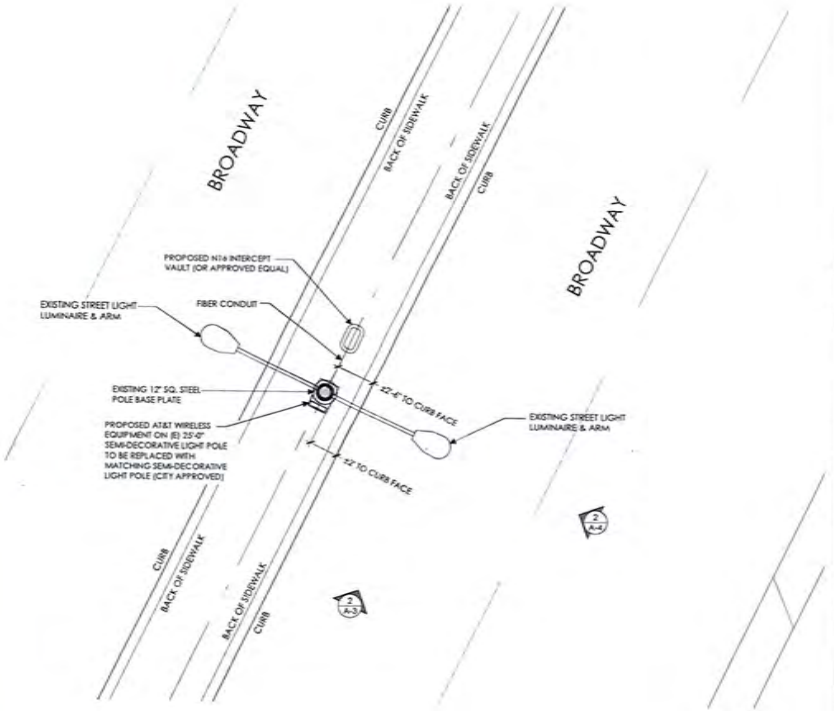
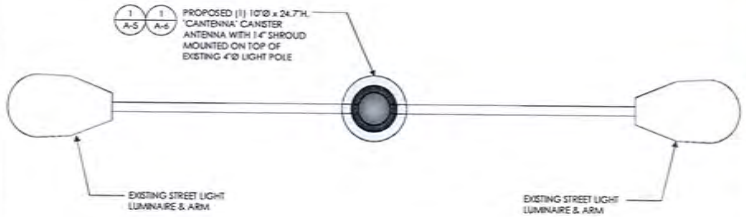
NOTES:

1. DURABLE PAINT: ANTENNAS, MOUNTING BRACKETS, CABLING, AND RADIO RELAY UNITS TO BE PAINTED TO MATCH THE EXISTING POLE USING A DURABLE PAINT (E.G. SHERWIN WILLIAMS, FRAZEE, KELLY MOORE, OR EQUIVALENT)
2. CABLING: CABLING TO BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS. ALL CABLING TO GROUND-MOUNTED BOXES AND ANTENNAS TO BE INSTALLED INSIDE POLE
3. LOGO REMOVAL: ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION), SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED TEXT ON RRUS OR OTHER EQUIPMENT, IF PRESENT, TO BE SANDED OFF OR SIMILARLY REMOVED AND/OR FILLED
4. SIGNAGE: FCC MANDATED RF WARNING SIGNAGE SHALL FACE CLIMBING SPACE. OPTIONAL SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD BUILDING IF THERE IS NO WINDOW.

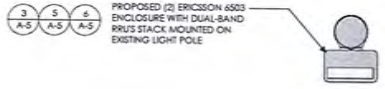


POLE PLAN ENLARGEMENT — SCALE 3/8" = 1'-0" — 1



A. SECTION (CANISTER ANTENNA)

ANTENNA ENLARGEMENT PLAN — SCALE 1" = 1'-0" — 2



B. SECTION (RRUS)

EQUIPMENT ENLARGEMENT PLAN — SCALE 1" = 1'-0" — 3

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:

Meridian Management LLC
765 Oak Grove Road D
Suite 251
Concord, CA 94518
T 707.592.5924
www.meridianmanagement

Project Architect:

VINCULUMS
575 LENNON LANE
SUITE 125
WALNUT CREEK, CA 94598
T 925.482.8500

Site Agent:

90% Zoning Drawings

(E) LIGHT POLE
Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

POLE PLAN
EQUIPMENT
ENLARGEMENTS

Sheet Title:

A.2

Sheet No.:

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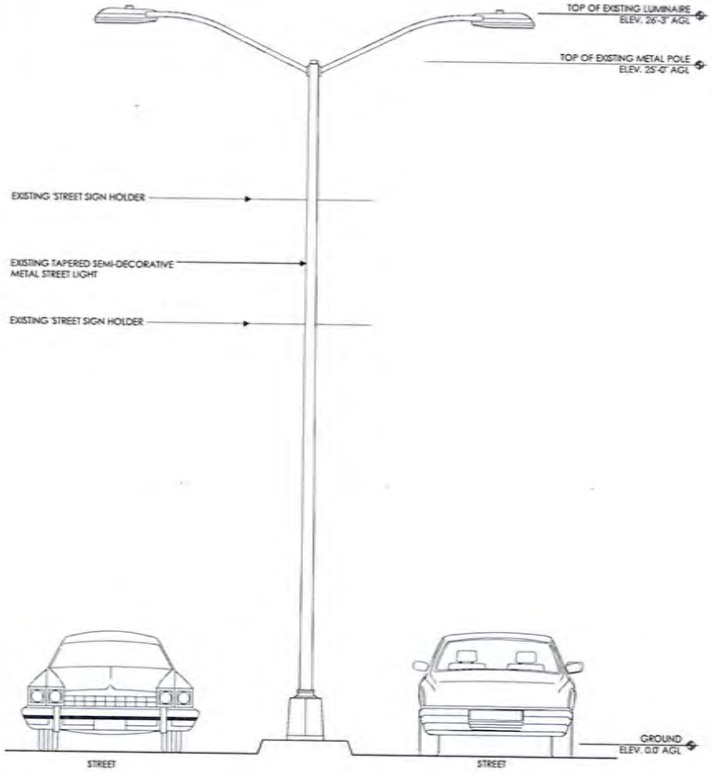
SCALE NOTE:

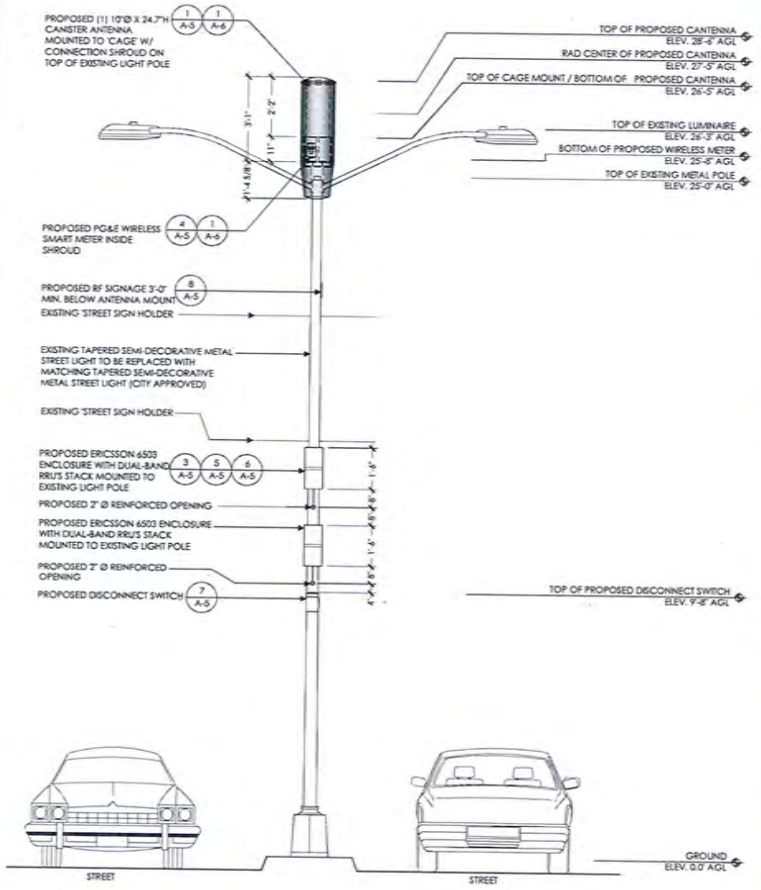
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.



SOUTHWEST ELEVATION - EXISTING

SCALE 1/2" = 1'-0"

1



SOUTHWEST ELEVATION - PROPOSED

SCALE 1/2" = 1'-0"

2

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:

Meridian Management LLC
1855 Olde Oakview Road E2
Suite 250
Concord, CA 94520
(707) 592-5904
www.meridian.management

Project Architect:

VINCULUMS
575 LENNON LANE
SUITE 125
WALNUT CREEK, CA 94598
T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
01	09/22/17	Zoning Dwgs 90%
02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.3

Sheet No.:

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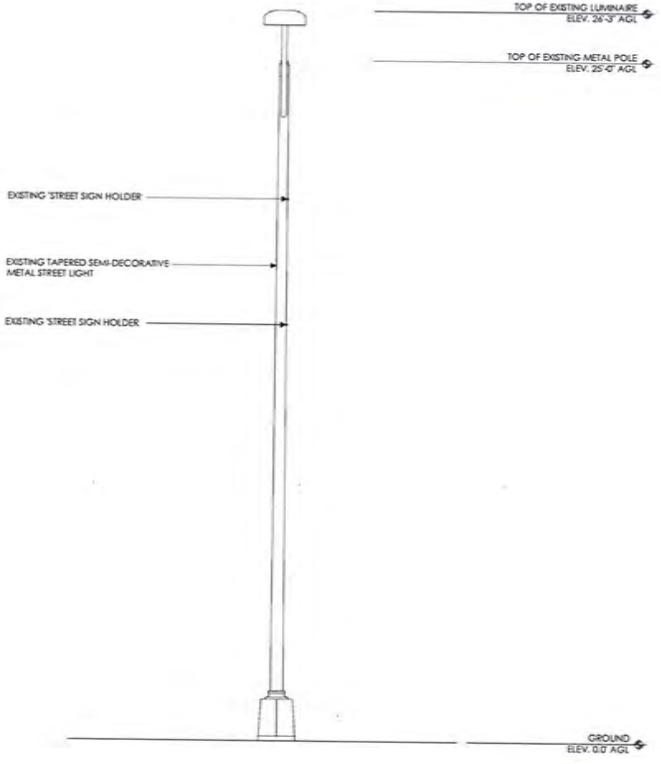
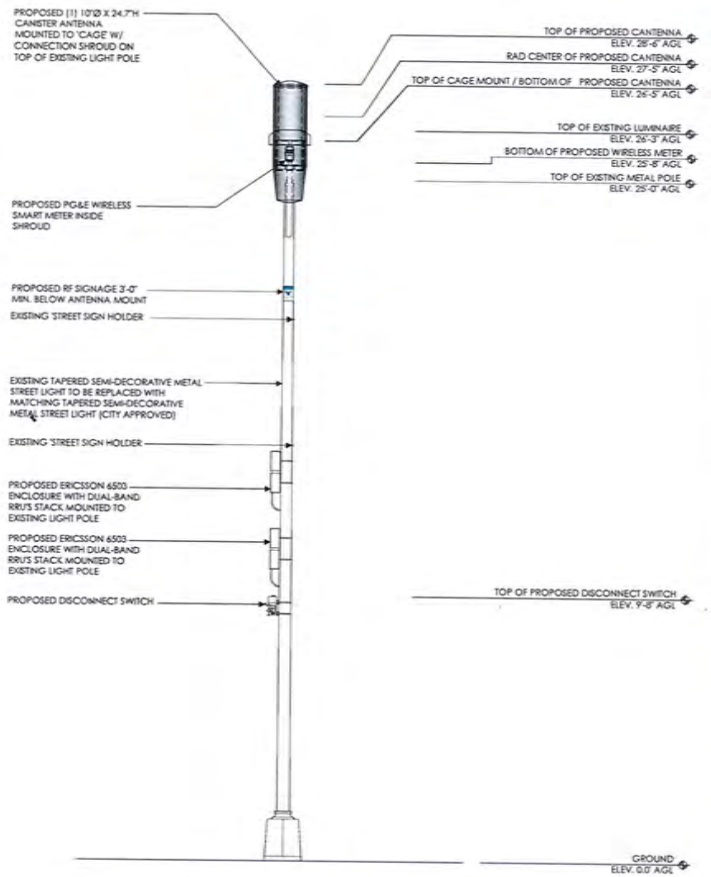
SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.



SOUTHEAST ELEVATION - EXISTING

SCALE 1/2" = 1'-0" 1



SOUTHEAST ELEVATION - PROPOSED

SCALE 1/2" = 1'-0" 2

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

Client:

Meridian Management LLC
785 Oak Grove Road E7
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Project Architect:

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Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
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Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

ELEVATIONS

Sheet Title:

A.4

Sheet No.:

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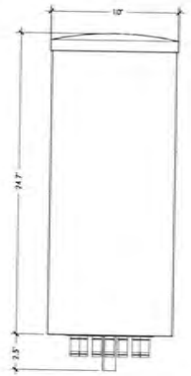
AT&T CANISTER ANTENNA 'CAN-TENNA'

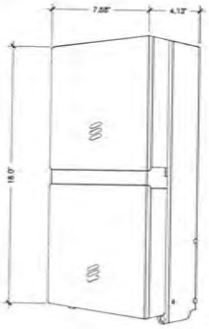
ANTENNA COLOR:	LIGHT GRAY
DIMENSIONS:	10.0"Ø x 24.7" TALL
NET WEIGHT:	19.0 LBS



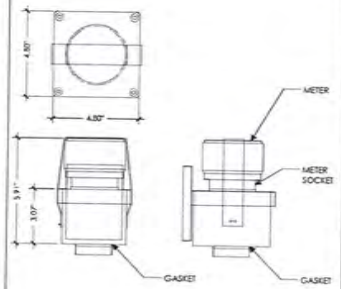
ANTENNA DETAIL | 1

ERICSSON 6503

SINGLE BAND 2203:	2 TX / 2 RX (AWS OR PCS)
DUAL BAND RRU (2 - 2203'S):	4 TX / 4 RX (AWS OR PCS)
MAXIMUM POWER CONSUMPTION:	<100W PER 2203 RADIO- ±95W PER SINGLE-BAND 2203 RADIO ±190W PER DUAL-BAND 2203 RRU
MAX FUSE RATING:	32A
WIRE SIZE:	#10 CU OR #8 ALU



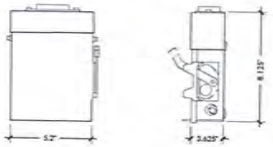
6503 RRU ENCLOSURE | 3



PG&E WIRELESS SMART METER | 4

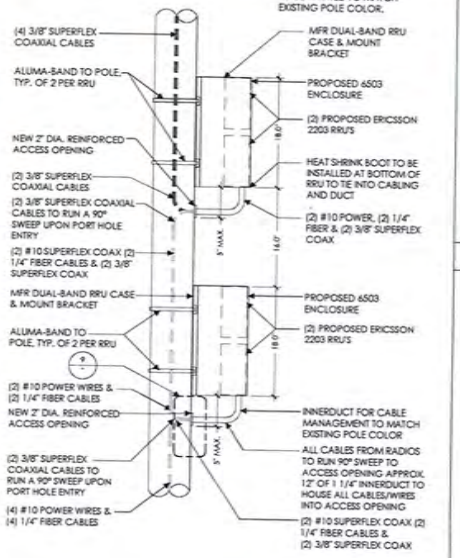
MURRAY LW002GRU SPECIFICATIONS

LOAD CENTER DEPTH:	3.625"
LOAD CENTER WIDTH:	5.2"
LOAD CENTER HEIGHT:	8.125"
WEIGHT:	4.55 LB
LOAD CENTER TYPE:	MAIN LUG
MAX AMPERAGE:	60
MOUNTING TYPE:	PLUG IN
NUMBER OF PHASES:	1
NUMBER OF SPACES:	2
VOLTAGE (VOLTS):	120/240
INDOOR/OUTDOOR:	OUTDOOR
ELECTRICAL PRODUCT TYPE:	LOAD CENTER



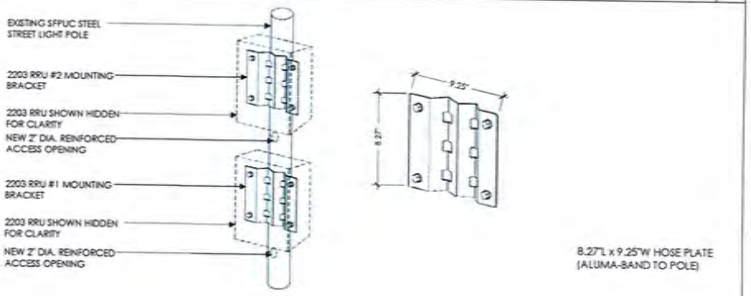
DISCONNECT SWITCH | 7

NOTICE SIGNAGE | 8

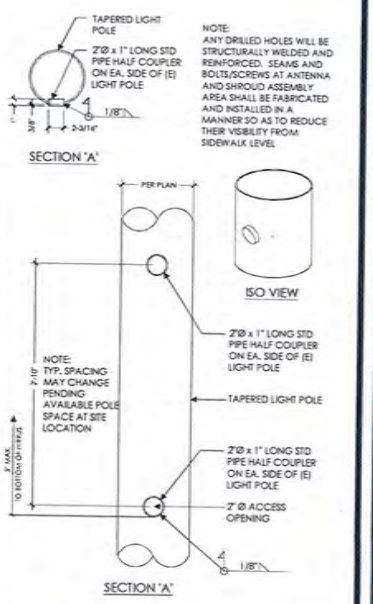


DUAL BAND RRU MOUNT | 2

ERICSSON 2203 RRU | 5



6503 RRU-POLE MOUNTING DETAILS | 6



VERTICAL ACCESS PORT | 9

AT&T

AT&T Wireless
5001 Executive Parkway
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Client:

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765 Oak Grove Road E2
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Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.	Date	Description
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02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:

A.5

Sheet No.:

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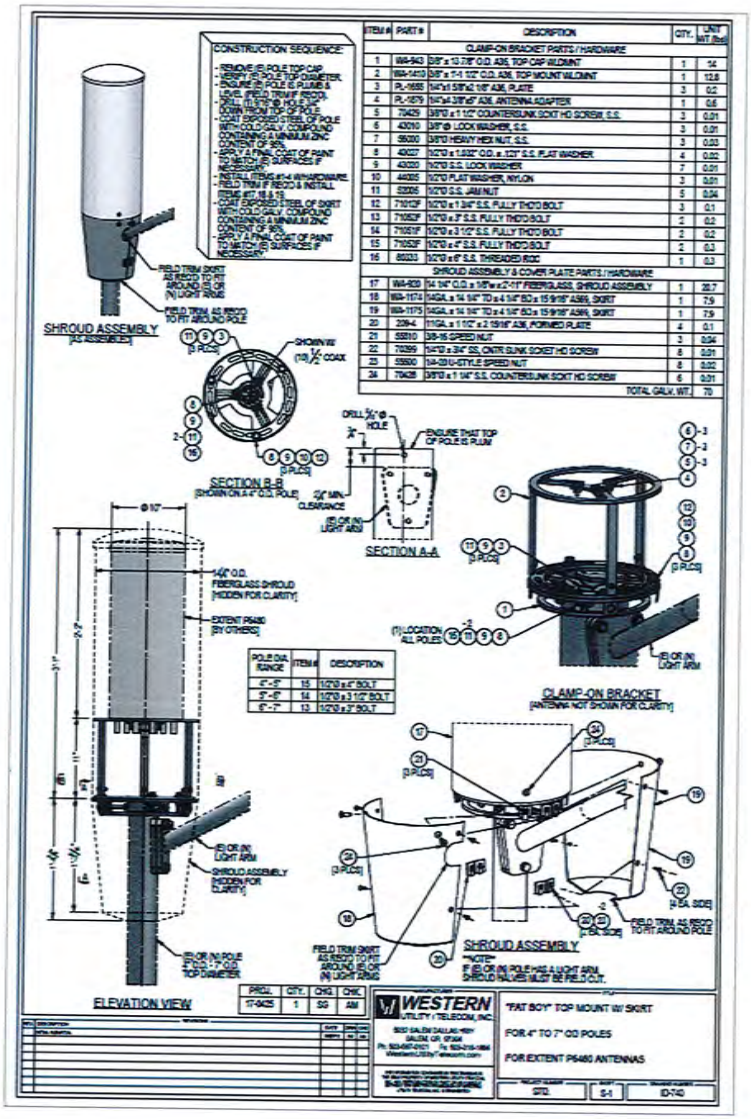

ITEM #	PART #	DESCRIPTION	QTY.	UNIT WT (lbs)
		CLAMP-ON BRACKET PARTS / HARDWARE		
1	WA-943	3/8" x 13.78" O.D. A36, TOP CAP MOUNT	1	14
2	WA-1419	3/8" x 11" O.D. A36, TOP MOUNT W/ MOUNT	1	12.8
3	PL-1655	1/4"x1 5/8"x2 1/8" A36, PLATE	3	0.2
4	PL-1679	1/4"x4 3/8"x6" A36, ANTENNA ADAPTER	1	0.6
5	70429	3/8"Ø x 1 1/2" COUNTERSUNK SOKT HD SCREW, S.S.	3	0.01
6	43010	3/8" Ø LOCK WASHER, S.S.	3	0.01
7	95000	3/8"Ø HEAVY HEX NUT, S.S.	3	0.03
8	40027	1/2"Ø x 1.532" O.D. x .123" S.S. FLAT WASHER	4	0.02
9	43020	1/2"Ø S.S. LOCK WASHER	7	0.01
10	44005	1/2"Ø FLAT WASHER, NYLON	3	0.01
11	53005	1/2"Ø S.S. JAM NUT	5	0.04
12	71010F	1/2"Ø x 1 3/4" S.S. FULLY THDD BOLT	3	0.1
13	71062F	1/2"Ø x 3" S.S. FULLY THDD BOLT	2	0.2
14	71061F	1/2"Ø x 3 1/2" S.S. FULLY THDD BOLT	2	0.2
15	71062F	1/2"Ø x 4" S.S. FULLY THDD BOLT	2	0.3
16	86033	1/2"Ø x 6" S.S. THREADED ROD	1	0.3
		SHROUD ASSEMBLY & COVER PLATE PARTS / HARDWARE		
17	WA-923	54 3/4" O.D. x 1/8"w x 2'-11" FIBERGLASS, SHROUD ASSEMBLY	1	28.7
18	WA-1174	SAGA, a 14 3/4" TD x 4 1/4" SD x 15 9/16" ASHL, SKIRT	1	7.9
19	WA-1175	SAGA, a 14 3/4" TD x 4 1/4" SD x 15 9/16" ASHL, SKIRT	1	7.9
20	239-4	11GA, a 1 1/2" x 2 15/16" A36, FORMED PLATE	4	0.1
21	55010	3/8-16 SPEED NUT	3	0.04
22	70299	1/4"Ø x 3/4" SS, CNTR SUNK SOKET HD SCREW	8	0.01
23	55500	1/4-20U-STYLE SPEED NUT	8	0.02
24	70428	3/8"Ø x 1 1/4" S.S. COUNTERSUNK SOKT HD SCREW	6	0.01
		TOTAL GALV. WT.		70

POLE DIA. RANGE	ITEM #	DESCRIPTION
4"-5"	15	1/2"Ø x 4" BOLT
5"-6"	14	1/2"Ø x 3 1/2" BOLT
6"-7"	13	1/2"Ø x 3" BOLT

PROJ.	QTY.	CHG	CHK
17-9435	1	SG	AM

STD.	S-1	ID-740

POLE TOP MOUNT W/ SKIRT ASSEMBLY DETAIL

1

AT&T

AT&T Wireless
5001 Executive Parkway
San Ramon, CA 94583

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760 Oak Grove Road D2
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Project Architect:

VINCULUMS
575 LENNON LANE
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WALNUT CREEK, CA 94598
T 925.482.8500

Site Agent:

90% Zoning Drawings

Drawing Phase:

CRAN-RSFR-SFOK7-017
PACE ID:
ROW AT 4351 BROADWAY,
OAKLAND, CA 94611
COUNTY: ALAMEDA

Site Name:

Professional Seal:

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Rev.:	Date:	Description:
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02	10/02/17	Zoning Dwgs 95%

Project No.:

Date: 09/22/17 Job No.:

Scale: AS SHOWN CAD File:

Designed By: JG Checked: RB

EQUIPMENT DETAILS

Sheet Title:

A.6

Sheet No.:

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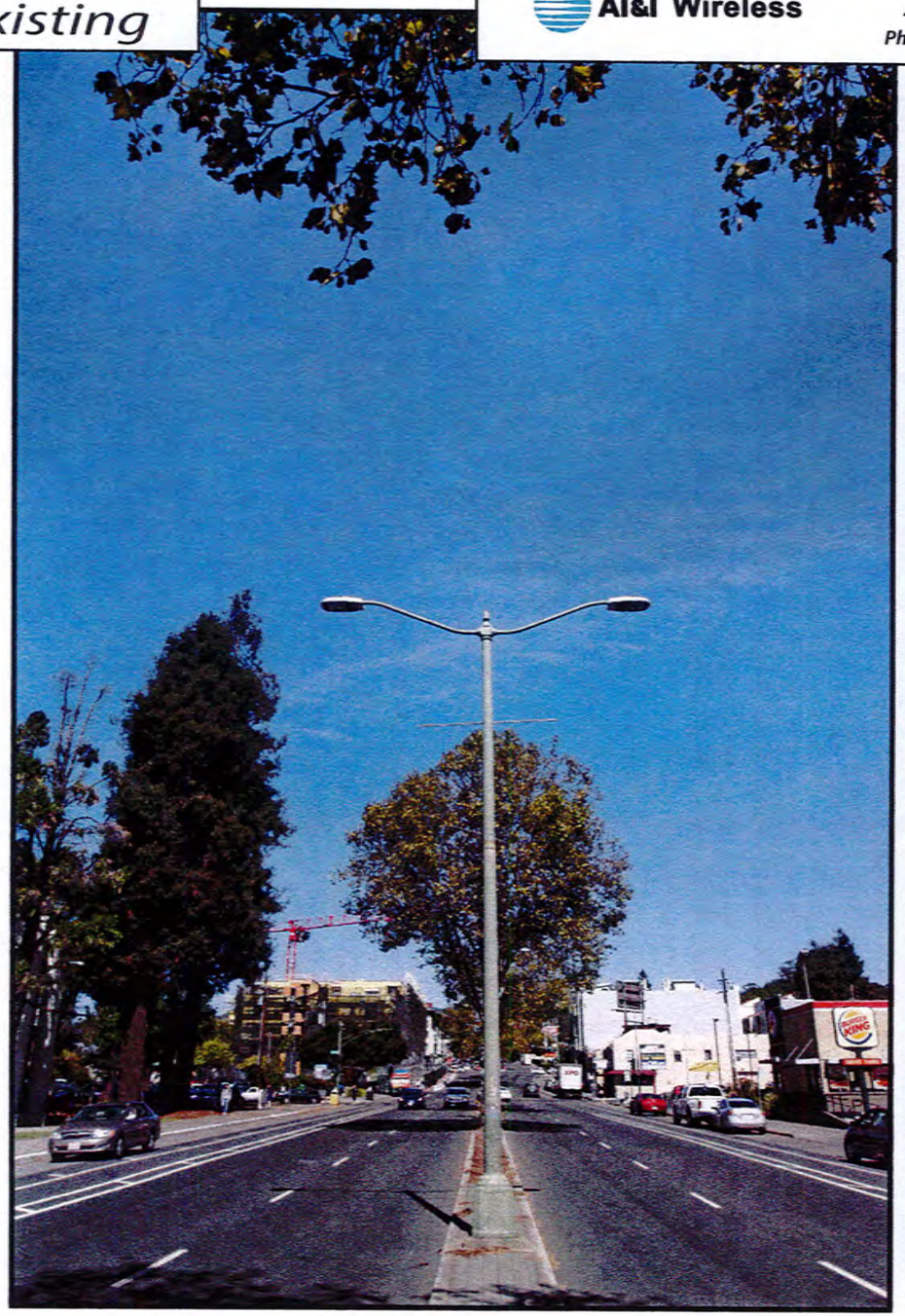
view from Braodway looking northeast at site

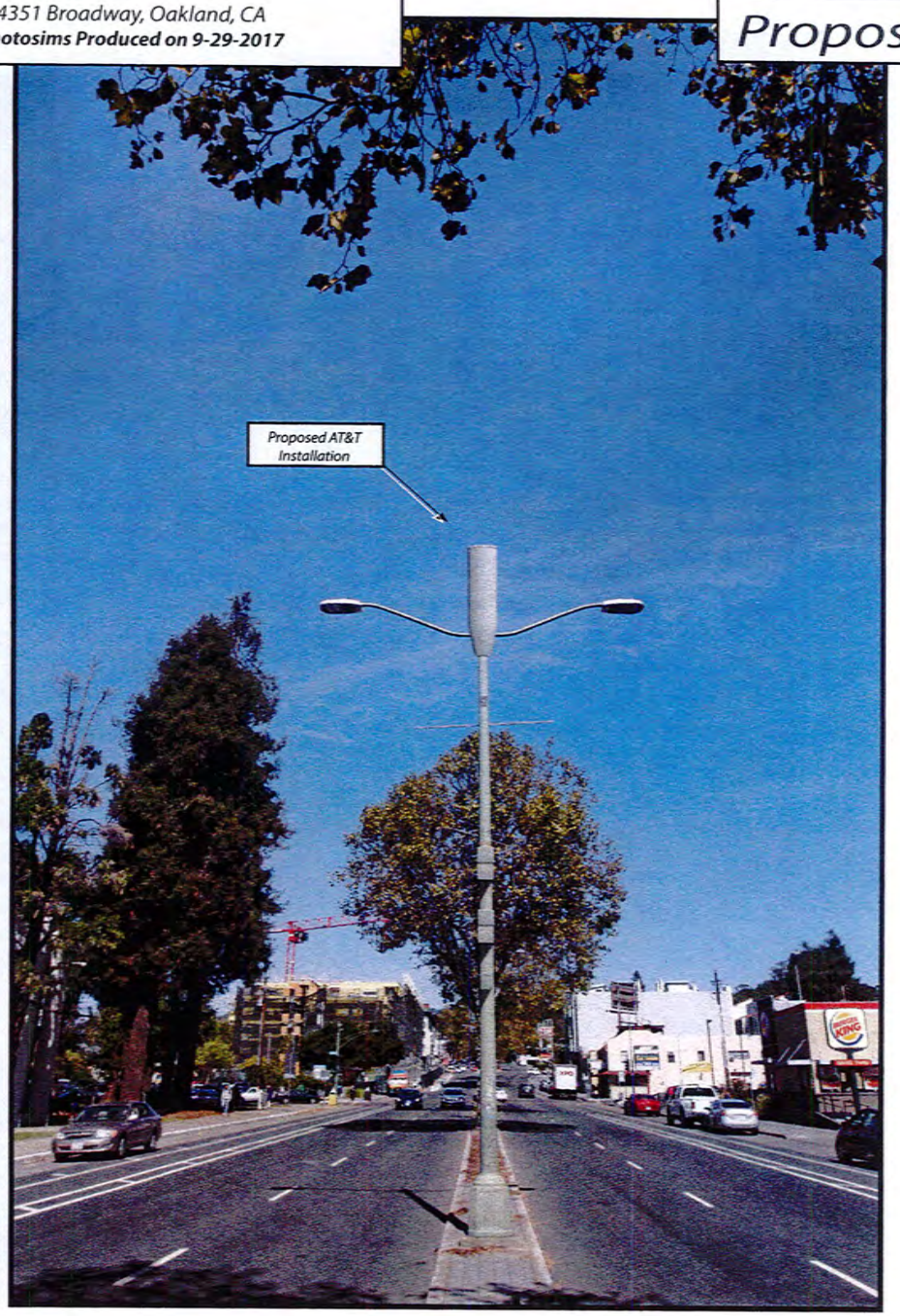
AT&T Wireless

CRAN-RSFR-SFOK7-017
4351 Broadway, Oakland, CA
Photosims Produced on 9-29-2017

Existing

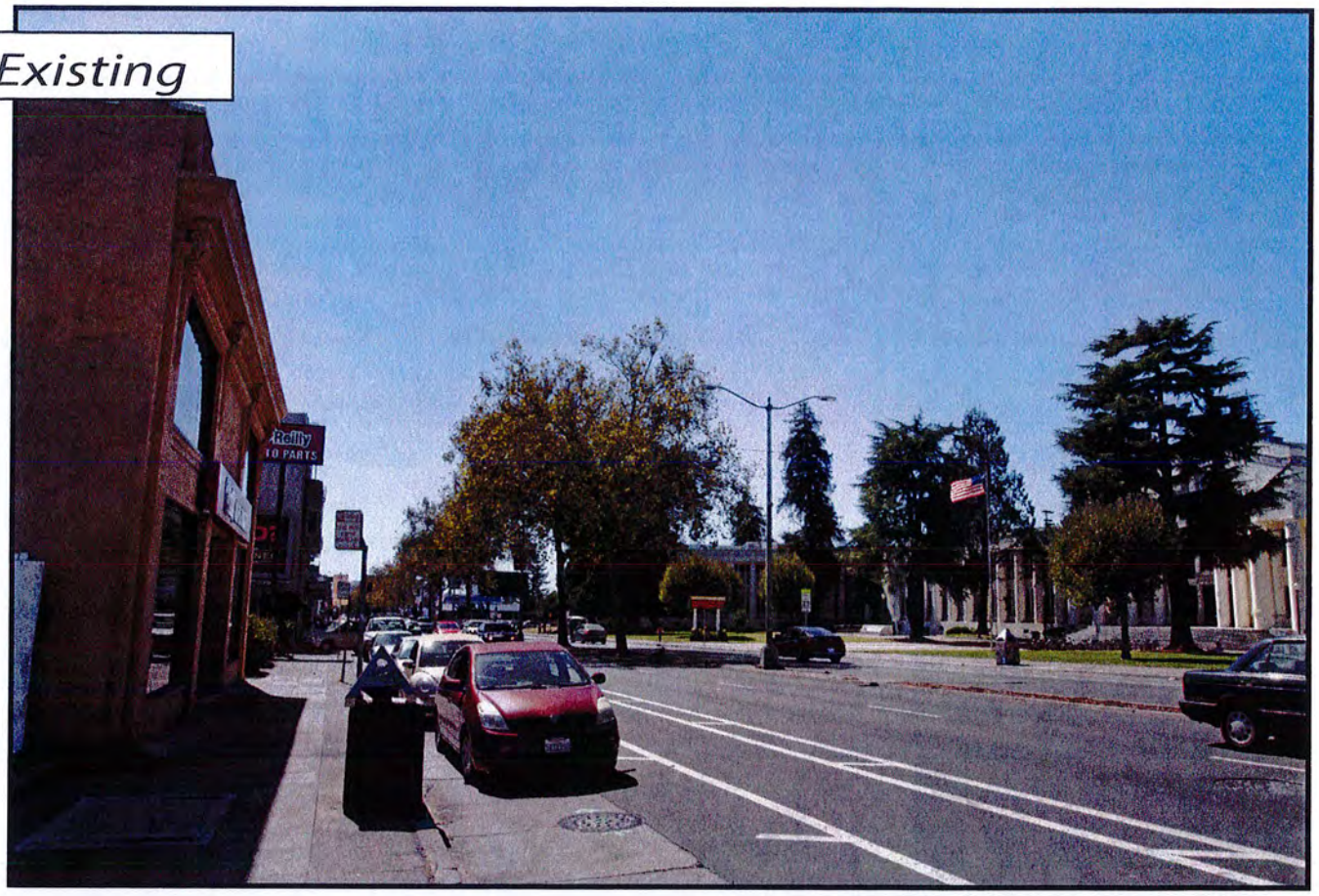


Proposed

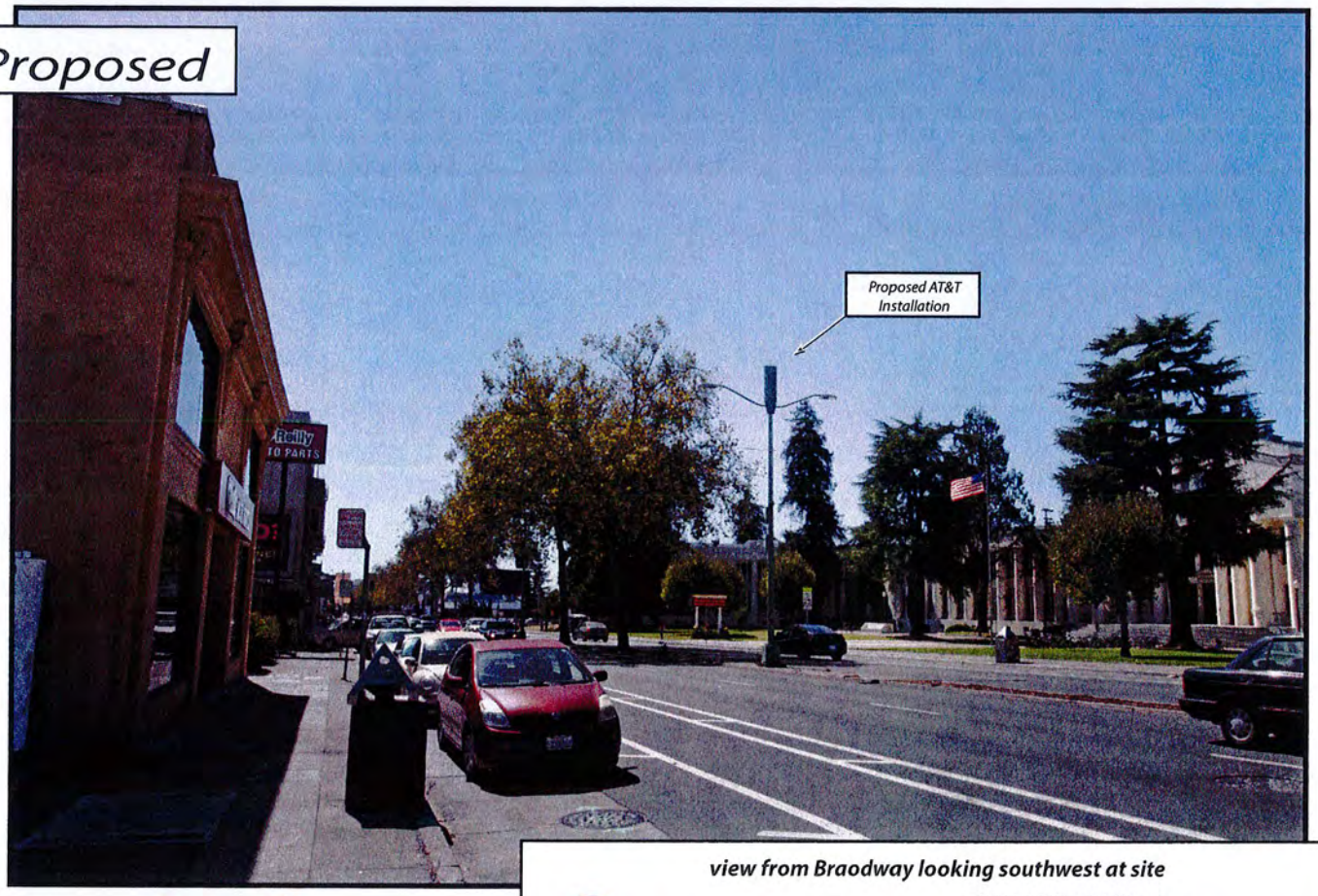


AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

Existing



Proposed



AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

view from Braodway looking southwest at site

AT&T Wireless

CRAN-RSFR-SFOK7-017
4351 Broadway, Oakland, CA
Photosims Produced on 9-29-2017

ALTERNATIVE DESIGN ANALYSIS

SFOK7_017

APN:
13-1106-1
LAT/LONG:
37.8324190, -122.253667

The project is located in an area with existing commercial structures. AT&T considered alternative monopole designs (see below) in this area but none of these designs are as desirable from a planning perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area.

Alternative light pole designs considered

ALTERNATIVE SITING ANALYSIS

SFOK7_017

APN:
13-1106-1
LAT/LONG:
37.8324190, -122.253667

The project is located in an area with existing commercial structures. AT&T considered alternative sites on other utility poles in this area but none of these sites are as desirable from a service coverage perspective or from an aesthetics perspective to minimize visual impacts. The proposed project is in an underserved area. The proposed location is approximately equidistant from other small cell nodes proposed in the surrounding area so that service coverage can be evenly distributed.

Alternative light poles considered

37.832091, -122.253882

37.832753, -122.253463

AT&T Mobility • Proposed Small Cell (No. CRAN-RSFR-SFOK7-017)
4351 Broadway • Oakland, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate its small cell (No. CRAN-RSFR-SFOK7-017) proposed to be sited in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Executive Summary

AT&T proposes to install an omnidirectional cylindrical antenna on a light pole sited in the public right-of-way at 4351 Broadway in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

The U.S. Congress requires that the Federal Communications Commission ("FCC") evaluate its actions for possible significant impact on the environment. A summary of the FCC's exposure limits is shown in Figure 1. These limits apply for continuous exposures and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. The most restrictive FCC limit for exposures of unlimited duration to radio frequency energy for several personal wireless services are as follows:

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

General Facility Requirements

Small cells typically consist of two distinct parts: the electronic transceivers (also called "radios") 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 typically mounted on the support pole or placed in a cabinet at ground level, and they are connected to the antennas by coaxial cables. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means

that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

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

Site and Facility Description

Based upon information provided by AT&T, including drawings by Meridian Management LLC, dated September 22, 2017, it is proposed to install one Galtronics Model P6480, 2-foot tall, omnidirectional cylindrical antenna, on top of an existing light pole sited in the public right-of-way at the median strip on Broadway, opposite the main entrance to Oakland Technical High School, located at 4351 Broadway. The antenna would employ no downtilt and would be mounted at an effective height of about 27½ feet above ground. The maximum effective radiated power in any direction would be 80 watts for PCS service. There are reported no other wireless telecommunications base stations at this site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.0011 mW/cm^2, which is 0.11% of the applicable public exposure limit. The maximum calculated level at any nearby building is 0.18% of the public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

No Recommended Mitigation Measures

Due to its mounting location and height, the AT&T antenna would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. The occupational limit is calculated to extend 4 inches from the antenna and, due to this short distance, the proposed operation is considered intrinsically compliant with that limit.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the small cell proposed by AT&T Mobility, at 4351 Broadway 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 small cells.

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, 2019. 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.

William F. Hammett, P.E.
707/996-5200

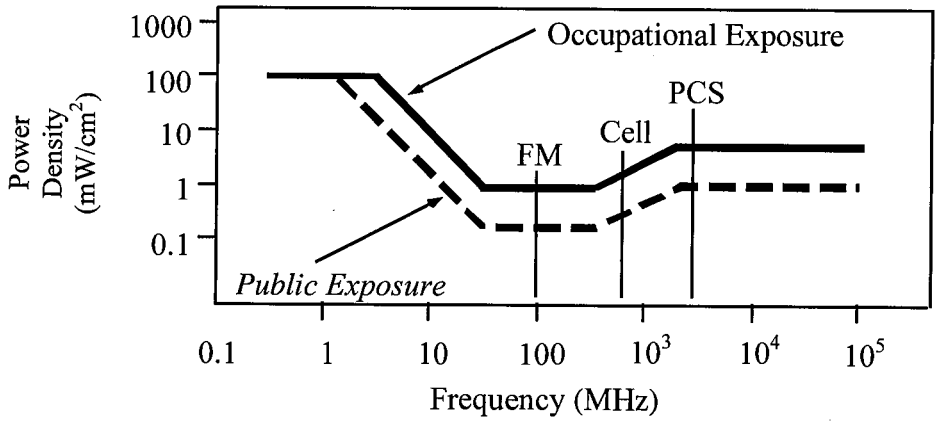
November 3, 2017

FCC Radio Frequency Protection Guide

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

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

Frequency	Electromagnetic Fields (f is frequency of emission in MHz)					
Applicable Range (MHz)	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm^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	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	$3.54\sqrt{f}$	*$1.59\sqrt{f}$*	$\sqrt{f}/106$	*$\sqrt{f}/238$*	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/cm^2,

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

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/cm^2,

where ERP = total ERP (all polarizations), in kilowatts,
RFF = relative field factor at the direction to the actual point of calculation, and
D = distance from the center of radiation to the point of calculation, in meters.

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

Vinculums

November 20, 2017

City Planner
Oakland Planning Dept.
250 Frank Ogawa Plaza
Oakland, CA 94612

Re: Proposed AT&T Small Cell Node Installation
Applicant: New Cingular Wireless PCS, LLC (dba AT&T Mobility)
Nearest Site Address: Public Right of Way near 4351 Broadway, Oakland, CA 94611
Site ID: CRAN RSFR SFOK7-017 ("Node 017")

Dear City Planner,

On behalf of New Cingular Wireless PCS, LLC (doing business as AT&T Mobility), this letter and attached materials are to apply for the appropriate Planning permit to install a small cell node in the public right-of-way at the above-referenced location ("Node 017" or the "Node").[1] The following is an explanation of the existing site, a project description of the designed facility, the project purpose and justifications in support of this proposal.

A. Project Description.

The proposed location for our facility currently consists of an approximate 25 feet tall City-owned light pole in the public right-of-way.

AT&T proposes to affix one canister antenna within an antenna shroud on top of the pole, extending up to a height of about 28.6 feet. On the pole between about 10 feet and 19 feet above ground, AT&T proposes to install two remote radio units and (if necessary) a miniature power disconnect switch. This facility or "Node" will be connected to underground fiber optic telecommunications lines and power. All equipment will be painted to match the pole. Our proposal is depicted in the attached design drawings and photographic simulations.

B. Project Purpose.

The purpose of this project is to provide AT&T third and fourth generation (3G and 4G) wireless voice and data coverage and capacity to the surrounding area. These wireless services include mobile telephone, wireless broadband, emergency 911, data transfers, electronic mail, Internet, web browsing, wireless applications, wireless mapping and video streaming. The proposed node is part of a larger small cell deployment providing wireless coverage and capacity to areas of Oakland that are otherwise very difficult or impossible to cover using traditional macro wireless telecommunications facilities.

[1] AT&T expressly reserves all rights concerning the city's jurisdiction to assert zoning regulation over the placement of wireless facilities in the public rights-of-way.

Vinculums Services LLC
575 Lennon Lane, Suite 125 • Walnut Creek, CA 94598
(415) 596-3474 • myergovich@vinculums.com

Vinculums

A small cell network consists of a series of radio access nodes connected to small telecommunications antennas, typically mounted on existing poles within the public rights-of-way, to distribute wireless telecommunications signals. Small cell networks provide telecommunications transmission infrastructure for use by wireless services providers. These facilities allow service providers such as AT&T to establish or expand their network coverage and capacity. The nodes are linked by fiber optic cable that carry the signal stemming from a central equipment hub to a node antenna.

C. Project Justification, Alternative Site and Design Analysis.

The proposed Node is an integral part of AT&T's overall small cell deployment to cover transient traffic along the roadways and provide in-building service to the surrounding area. Using an existing pole is the least intrusive means to meet AT&T's wireless coverage and capacity needs in the area. This Node best uses existing infrastructure, adding small equipment without disturbing the character of the neighborhoods served. Deploying a small cell node at an existing pole location minimizes any visual impact by utilizing an inconspicuous spot.

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

As this application seeks authority to install a wireless telecommunication facility, the FCC's Shot Clock Order[2] requires the city to issue its final decision on AT&T's application within 150 days. We respectfully request expedited review and approval of this application. Feel free to contact me if you have any questions. Thank you.

Thank you.

Best Regards,
VINCULUMS SERVICES, LLC

Matthew S. Yergovich
FOR AT&T MOBILITY

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

California Public Utilities Commission

Utility Contact System Search

The Utility Contact System (UCS) is the Communications Division's database for the primary regulatory contact for each telephone corporation operating in California. The Communications Division sends impc regulatory notices to the regulatory contact for each telephone corporation via e-mail, so it is important for primary regulatory contacts to update their UCS record if their e-mail address changes.

Telephone corporations may update UCS contact information using the form on the following page: **Carrier Reporting Requirements**

A description of the different utility types (granted authorities) are listed on the following page: **Utility Type Descriptions**

Search Utility Name Search Utility Number 3060 Search Clear

Utility Name	Alias (DBA Name)	Utility Number	Street Address	City	State	Zip	Phone Number	Email	Utility Type	CPCN Appr
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	430 BUSH STREET	SAN FRANCISCO	CA	94108	(415) 778-1299	att-regulatory-ca@att.com	CEC	12-21-1995
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	7405 GREENHAVEN DRIVE	SACRAMENTO	CA	95831	(800) 498-1912	west.region.oopsac@awsmail.att.com	CEC	12-21-1995
New Cingular Wireless Pcs, LLC	CINGULAR WIRELESS	3060	11760 US HIGHWAY ONE, WEST TOWER	NORTH PALM BEACH	FL	33048	770-240-8849		CEC	12-21-1995

Save Search Results as CSV Spreadsheet

Comments & Feedback

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C NOTICE

TY OF OAKLAND

CITY OF OAKLAND
BUREAU OF PLANNING
250 Frank H. Ogawa Plaza, Suite 3315, Oakland, CA 94612-2031
Phone: 510-238-3911 Fax: 510-238-4730
PLANNING COMMISSION PUBLIC NOTICE

Location:	City street light pole at public right-of-way location adjacent to: • at 3990 Broadway (PLN18026) (adjacent to APN: 012-0992-019-04; 3924 Broadway); Submitted; CC-2/R Oakland Plan: Community Commercial; Zoning: CC-2/R Neighborhood Commercial-Retail; Council District: 1 • At 4201 Broadway (PLN18027; APN: 012-1046-01-00); General Plan: Community Commercial - Institutional; Zoning: CC-2/ - RM-4 Mixed Housing Type Residential Zone
Proposal:	To consider requests for two (2) applications to install a new "small cell site" Wireless Telecommunications Facility on a City street light pole by attaching antenna and equipment.
Applicant / Phone Number:	Mr. Justin Carroll / Crown Castle (925) 482-4178
Owner:	City of Oakland
Planning Permits Required:	Major Conditional Use Permit and Regular Design Review with additional findings for Wireless Telecommunications Facility in or near a Residential Zone
Environmental Determination:	Exempt, Section 15303 of the State CEQA Guidelines: Existing Facilities; Exempt, Section 15302, Replacement or Reconstruction; Exempt, Section 15301, New Construction of Small Structures; Section 15183: Projects Consistent with a Community Plan, General Plan or Zoning
Historic Status:	Non-historic properties
Service or Use Taken:	Services based on staff report
Finality of Decision:	Appealable to City Council
For Further Information:	Contact case planner Anthony Ross, AICP at (510) 238-2071 or by email at arossmcp@oakland.net

Your comments and questions, if any, should be directed to the Bureau of Planning, 250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, California 94612-2031 at or prior to the public hearing to be held on: Wednesday, November 28, 2018 at Oakland City Hall, Council Chambers, 1 Frank H. Ogawa Plaza, Oakland, California 94612. The public hearing will start at 6:00 p.m.

If you challenge the Planning Commission decision or appeal and/or a court, you will be limited to issues raised at the public hearing or in correspondence delivered to the Bureau of Planning, at, or prior to, the public hearing on this case. If you wish to be notified of the decision on this case, please indicate the case number and submit a self-addressed stamped envelope for mail to the Bureau of Planning, 250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, California 94612-2031.

Please note that the description of the application found above is preliminary in nature and that the project and/or staff description may change prior to a decision being made. Except where noted, once a decision is reached by the Planning Commission or Hearing Officer, you are appealing to the City Council. Such appeals must be filed within ten (10) calendar days of the date of decision by the Planning Commission and (5) calendar days of the decision of the Hearing Officer, and accompanied by a fee of $1,774.00 for projects requiring Planning Commission review and $1,774.00 for projects requiring Hearing Officer review. An appeal shall be on a form prescribed by the Bureau of Planning, and submitted to the same at 250 Frank H. Ogawa Plaza, Suite 3315, by the deadline date. An appeal shall be on a form prescribed by the Bureau of Planning, and submitted to the same at 250 Frank H. Ogawa Plaza, Suite 3315, by the deadline date. An appeal shall be on a form prescribed by the Bureau of Planning, and submitted to the same at 250 Frank H. Ogawa Plaza, Suite 3315, by the deadline date of the Case Planner. The appeal shall state specifically wherein it is claimed there was error or abuse of discretion by the City of Oakland or wherein the decision is not supported by substantial evidence and must include payment in accordance with the City of Oakland Master Fee Schedule. Failure to file a timely appeal will preclude you from challenging the City's decision in court. The appeal must cover every issue that is contested along with all the arguments and evidence previously entered into the record prior to or at the public hearing mentioned above. Failure to do so will preclude you from raising such issues during the appeal hearing and/or in court.

POSTING DATE: November 9, 2018

IT IS UNLAWFUL TO ALTER OR REMOVE THIS NOTICE WHEN POSTED ON SITE

MISSING OR DAMAGED, PLEASE CALL ZONING AT (510) 238-3911. FOR BLIGHT NOTICES, PLEASE CALL (510) 238-6402