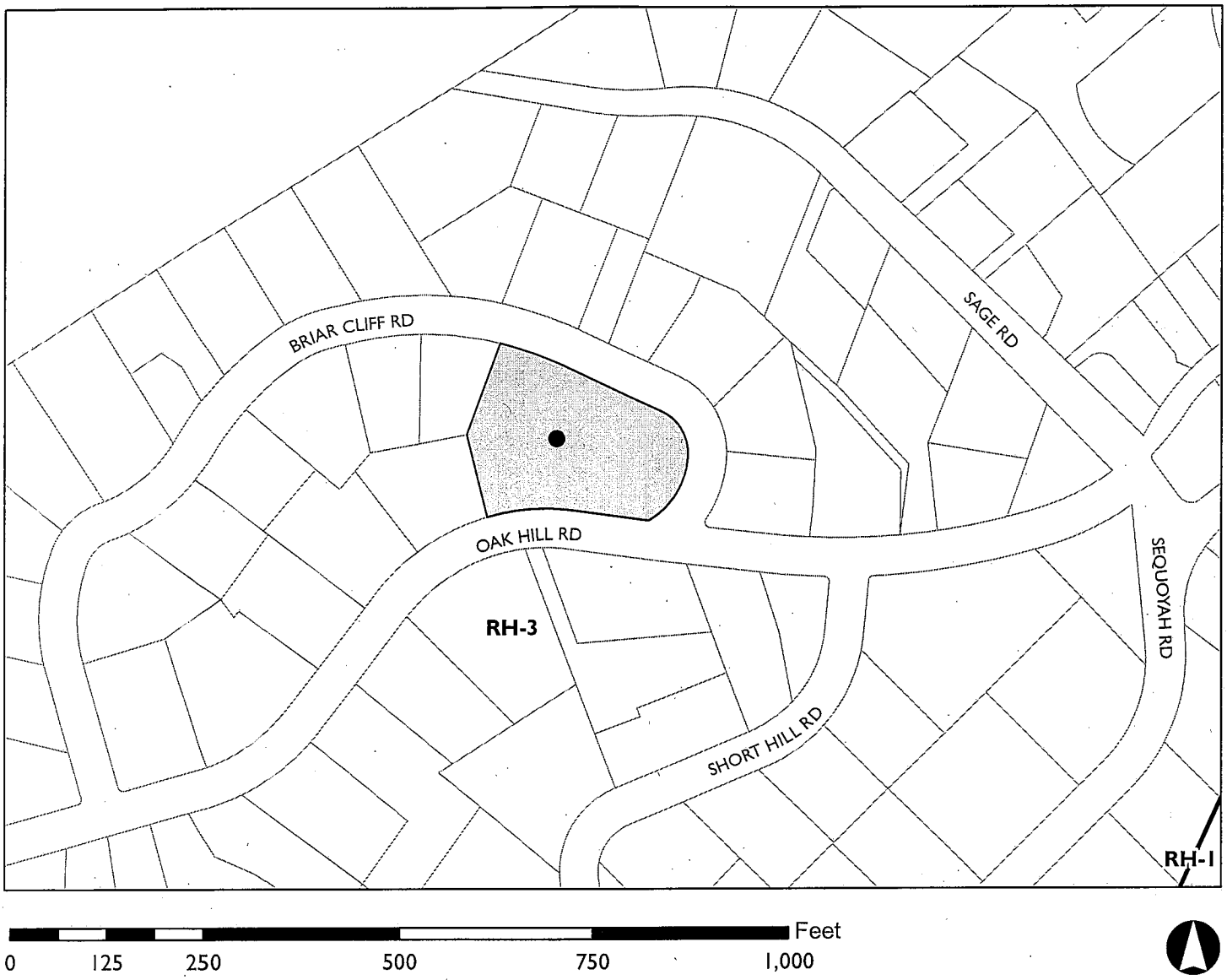
Location:	**4491 Briar Cliff Road (See map on reverse)**
Assessors Parcel Numbers:	**(048-6845-006-01)**
Proposal:	To install a new Monopole (Mono-pine) telecommunication facility to look like a Pine tree with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's) and one (1) equipment shelter to contain the equipment cabinets.
Applicant:	AT&T, Josh Anderson for SAC wireless
Contact Person/ Phone Number:	Josh Anderson (815)342-1792
Owner:	East Bay Municipal Utility District (EBMUD)
Case File Number:	CMD13-168 and T14-00002
Planning Permits Required:	Design Review to install a new Monopole telecommunication facility with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's) and one (1) equipment shelter to contain the equipment cabinets. Major Conditional Use Permit for the installation of a Monopole telecommunication facility within 100 feet of a residential zone. Minor Conditional Use Permit for a monopole telecommunication facility greater than 45' with the proposed height of 50'.
General Plan:	Hillside Residential
Zoning:	RH-3 Hillside Residential-3 Zone
Environmental Determination:	Exempt, Section 15303 of the State CEQA Guidelines; New construction of small structures. Section 15183 of the State CEQA Guidelines; projects consistent with a community plan, General Plan or zoning.
Historic Status:	Not a Potential Designated Historic Property; Survey Rating: F3
Service Delivery District:	6
City Council District:	7
Date Filed:	6/6/13
Finality of Decision:	Appealable to City Council within 10 days
For Further Information:	Contact case planner **Michael Bradley** at **(510) 238-6935** or mbradley@oaklandnet.com

SUMMARY

The following staff report addresses the proposal for a new unmanned wireless telecommunication facilities located on a new Monopole (Mono-pine) telecommunication facility to look like a Pine tree with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's) and one (1) equipment shelter to contain the equipment cabinets. Given the type of structure, this would be considered a "Monopole" Telecommunications Facility. The site is located within a residential area, on an East Bay Municipal Utility District (EBMUD) site

CITY OF OAKLAND PLANNING COMMISSION



Case File: CMD13168 and T1400002
Applicant: AT&T, Josh Anderson for SAC wireless
Address: 4491 Briar Cliff Road
Zone: RH-3

that contains a water reservoir in a wooded area. The site is located in the RH-3 Hillside Residential Zone. The General Plan designation for the site is Hillside Residential.

TELECOMMUNICATIONS BACKGROUND

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

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

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

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

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

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

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

For more information on the FCC's jurisdiction in this area, contact Steve Markendorff, Chief of the Broadband Branch, Commercial Wireless Division, Wireless Telecommunications Bureau, at (202) 418-0640 or e-mail "smarkend@fcc.gov".

PROJECT DESCRIPTION

The applicant (AT&T) is proposing to install a new Monopole (Mono-pine) telecommunication facility to look like a Pine tree with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's). The proposed equipment shelter is to contain the equipment cabinets on

the ground near to the monopole within a fenced and locked area. All proposed antennas and associated equipment will not be accessible to the public.
(**See Attachment A**)

PROPERTY DESCRIPTION

The subject property is a lot, of approximately 1.05 acres, with frontage on Briar Cliff Road, and Oak Hill Road. The subject property has a fully functioning water reservoir on the site.

GENERAL PLAN ANALYSIS

The subject property is located within the Hillside Residential General Plan designation. The Hillside Residential Land Use Classification is intended "to identify, create, maintain and enhance neighborhood residential areas that are characterized by detached, single unit structures on hillside lots. The proposed unmanned wireless telecommunication facility will not adversely affect and detract from the civic, commercial or residential characteristics of the neighborhood, because the antennas will be mounted on a monopole telecommunication facility located in an unpopulated area of an East Bay Municipal Utility District (EBMUD) water tank reservoir site. Therefore, the proposed unmanned wireless telecommunication facility will not adversely affect or detract from the residential characteristics of the neighborhood.

ZONING ANALYSIS

The subject property is located in the RH-3 Hillside Residential Zone. The intent of the RH-3 Zone is to create, maintain, and enhance areas for single-family dwellings on lots of at least twelve thousand (12,000) square feet and is appropriate in portions of the Oakland Hills.

The proposal is for a new unmanned wireless telecommunication facility on a monopole telecommunication facility and requires a Major Conditional Use Permit since the project is within one hundred (100) feet of a residential zone, Design Review to install a new Monopole telecommunication facility, and a Minor Conditional Use Permit for a monopole telecommunication facility greater than 45' with the proposed height of 50'. Staff finds that the proposed application meets applicable RH-3 zoning and City of Oakland Telecommunication regulations.

ENVIRONMENTAL DETERMINATION

The California Environmental Quality Act (CEQA) Guidelines lists the projects that qualify as categorical exemptions from environmental review. The proposed project is categorically exempt from the environmental review requirements pursuant to Section 15303, new construction of small structures, and 15183, projects consistent with a community plan, general plan or zoning.

KEY ISSUES AND IMPACTS

1. Conditional Use Permit

Section 17.17.040 of the City of Oakland Planning Code requires a conditional use permit to install a Monopole Telecommunication facility in the RH-3 zone. Furthermore, Section 17.134.020 defines a major and minor conditional use permit. Subsections (A)(3)(i) lists a major conditional use permit: "Any telecommunication facility in or within one hundred (100) feet of the boundary of any residential zone. Further, a minor conditional use permit is required for a monopole telecommunication facility greater than 45' with the proposal of 50'. The required findings for a major and minor conditional use permit are listed and included in staff's evaluation as part of this report.

2. Project Site

Section 17.128.110 of the City of Oakland Telecommunication Regulations indicate that new wireless facilities shall generally be located on designated properties or facilities in the following order of preference:

A. Co-located on an existing structure or facility with existing wireless antennas.
B. City owned properties or other public or quasi-public facilities.
C. Existing commercial or industrial structures in non-residential zones.
D. Existing commercial or industrial structures in residential zones.
E. Other non-residential uses in residential zones.
F. Residential uses in non-residential zones.
G. Residential uses in residential zones.

*Facilities locating on an A, B or C ranked preference do not require a site alternatives analysis.

Since the proposed project involves locating the installation of a new monopole facility with new antennas and associated equipment cabinets on a site, the proposed project meets (B) City owned properties or other public or quasi-public facilities.

3. Project Design

Section 17.128.120 of the City of Oakland Telecommunications Regulations indicates that new wireless facilities shall generally be designed in the following order of preference:

A. Building or structure mounted antennas completely concealed from view.
B. Building or structure mounted antennas set back from roof edge, not visible from public right-of way.
C. Building or structure mounted antennas below roof line (facade mount, pole mount) visible from public right-of-way, painted to match existing structure.
D. Building or structure mounted antennas above roof line visible from public right of-way.
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 higher preference design alternative can not be used. Such evidence shall be in sufficient detail that independent verification could be obtained if required by the City of Oakland Zoning Manager. Evidence should indicate if the reason an alternative was rejected was technical (e.g. incorrect height, interference from existing RF sources, inability to cover required area) or for other concerns (e.g. inability to provide utilities, construction or structural impediments).

City of Oakland Planning staff has reviewed and determined that the site selected is conforming to all other telecommunication regulation requirements. The project location is appropriate because the monopole install will be designed as a Mono-pine (telecommunication facility to look like a Pine tree) with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's) and one (1) equipment shelter to contain the equipment cabinets. Further, the proposal is to locate the monopole in an unpopulated wooded area on a quasi-public facility owned by EBMUD, which is an appropriate location for the antennas to provide service to the adjacent residential zone without being constructed within the residential neighborhood, as well as provide service to the on-site EBMUD facility. The applicant has looked at other sites and based on the residential neighborhood and, this is the most suitable site for the proposed antennas. **(See Attachment C)**

4. Project Radio Frequency Emissions Standards

Section 17.128.130 of the City of Oakland Telecommunication Regulations require that the applicant submit the following verifications including requests for modifications to existing facilities:

a. 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.

The applicant states that the proposed project meets the radio frequency (RF) emissions standards as required by the regulatory agency. Submitted with the initial application was a RF emissions report, prepared by Site Safe RF Compliance Experts, (**attachment B**). The report states that the proposed project will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not cause a significant impact on the environment. Additionally, staff recommends that prior to the final building permit sign off, the applicant submits certified RF emissions report stating that the facility is operating within acceptable thresholds established by the regulatory federal agency.

CONCLUSION

City of Oakland planning staff believes that the proposed project and subject property can be developed to meet the established zoning and telecommunication regulations that were created and adopted to set certain criteria minimums and maximums for similar types of developments. Staff believes that the findings for approval can be made to support the Major and Minor Conditional Use Permits and Design Review.

RECOMMENDATIONS:

1. Affirm staff's environmental determination

2. Approve Major and Minor Conditional Use Permit, and Design Review application CMD13-168 subject to the attached findings and conditions of approval.

Prepared by:

Michael Bradley
Planner I

Approved by:

Scott Miller
Zoning Manager

Approved for forwarding to the
City Planning Commission

Rachel Flynn, Director
Department of Planning and Building

ATTACHMENTS:

A. Project Plans & Photo simulations
B. Site Safe RE Compliance Experts RF Emissions Report
C. Site Alternative Analysis and Coverage Maps

FINDINGS FOR APPROVAL

FINDINGS FOR APPROVAL:
This proposal meets all the required findings under Section 17.134.050, of the General Use Permit criteria; all the required findings under Section 17.136.050.(B), of the Non-Residential Design Review criteria; all the required findings under Section 17.128.080(B), of the telecommunication facilities (Monopole) Design Review criteria; and all the required findings under Section 17.128.080.(C), of the telecommunication facilities (Monopole) Conditional Use Permit criteria; and as set forth below and which are required to approve your application. Required findings are shown in **bold** type; reasons your proposal satisfies them are shown in normal type.

SECTION 17.134.050 – GENERAL USE PERMIT FINDINGS:

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 location, size, design and operational characteristics of the proposal will not adversely affect the livability or appropriate development of abutting properties and the surrounding area. Consideration was given to the harmony in scale, bulk, and coverage; 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 proposed telecommunications antennas will located antennas on a monopole designed to look like a Pine tree in an unpopulated, wooded area on the East Bay Municipal Utility District water tank reservoir and will not adversely affect the operating characteristic or livability of the existing area. The monopole and antennas will reach a height of 45' with the faux branches reaching 50'. The facility will be unmanned and will not create additional vehicular traffic 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.

The location, design and site planning of the proposed development will provide a convenient and functional working and civic environment, and will attempt to preserve the attractive nature of the use and its location and setting warrant. The proposal will preserve a convenient and functional working and living environment; therefore it would not affect the general quality and character of the water tank reservoir.

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 proposed development will enhance the successful operation of the surrounding area in its basic community function and will provide an essential service to the community or region. This will be achieved by improving the functional use of the site by providing a regional telecommunication facility for the community and will be available to police, fire, public safety organizations and the general public.

D. That the proposal conforms to all applicable design review criteria set forth in the DESIGN REVIEW PROCEDURE of Chapter 17.136 of the Oakland Planning Code.

The proposal conforms with all significant aspects of the design review criteria set forth in Chapter 17.136 of the Oakland Planning Code, as outlined below.

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

The proposal conforms in all significant aspects with the Oakland General Plan and with any other applicable plan or zoning maps adopted by the City of Oakland. The proposed monopole telecommunication facility expansion in the Hillside Residential General Plan designation will enhance and improve communication service for a mixture of civic, commercial, residential and institutional uses in the area.

17.136.050(B) – NONRESIDENTIAL DESIGN REVIEW CRITERIA:

1. That the proposal will help achieve or maintain a group of facilities which are well related to one another and which, when taken together, will result in a well-composed design, with consideration given to site, landscape, bulk, height, arrangement, texture, materials, colors, and appurtenances; the relation of these factors to other facilities in the vicinity; and the relation of the proposal to the total setting as seen from key points in the surrounding area. Only elements of design which have some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060;

The proposal is the construction of a new Monopole Telecommunication Facility (a mono-pine" to appear as a pine tree) with nine (9) antennas, fifteen (15) Remote Radio Units (RRU's), and an equipment shelter which is located in an unpopulated, wooded area of the EBMUD water tank reservoir and therefore is consistent and well related to the surrounding area in scale, bulk, height, materials, and textures. Through the design the monopole will be built at a height of 50 feet to the top of the faux branches (45' high for the monopole and antennas) and to look like the surrounding Pine trees.

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 design will be appropriate and compatible with current zoning and general plan land use designations. The antennas will be located on a monopole designed to look like a Pine tree set in

a wooded area within the EBMUD water tank reservoir grounds and will not have any visual impact on the adjacent neighborhood.

3. That the proposed design conforms in all significant respects with the Oakland General Plan and with any applicable design review guidelines or criteria, district plan, or development control map which have been adopted by the Planning Commission or City Council.

The proposal conforms with the City of Oakland Comprehensive General Plan meeting specific General Plan policies and the Supplemental Report and Recommendations on Revisions to the Citywide Telecommunications Regulations. The proposal will conform to performance standards for noise set forth in Section 17.120.050 for decibels levels in residential areas for both day and nighttime use. The Project conforms to all monopole-facility definitions set forth in Section 17.128.080 and meets all design review criteria to minimize all impacts throughout the neighborhood.

17.128.080(B) DESIGN REVIEW CRITERIA FOR MONOPOLE FACILITIES

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 proposed project entails a new monopole design to look like a Pine tree. Although, the current proposal is not a collocation, there is the possibility for future telecommunication providers to collocate on the monopole.

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

The proposed antennas will be mounted to a monopole which will be located in an unpopulated, wooded area of the EBMUD water tank reservoir site. Based on the location the monopole within an area with other Pine trees, no specific views will be impacted and visual clutter will not occur.

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

The proposed antennas will be designed to look like a Pine tree and located in an unpopulated, wooded area of the EBMUD water tank reservoir site. Due to the Pine tree design, the monopole will be screened from in public view.

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:

The associated equipment will located on the ground below the canopy of several trees which will screen the shelter. The equipment will be placed where it will not be accessed by the public.

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 antennas will be located on a monopole in an unpopulated, wooded area of the EBMUD water tank reservoir site. Based on the wooded area, the monopole proposal will not result in a visual impact and will blend in with the existing characteristics of the site.

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 antennas will be mounted to a monopole and will not be accessible to the public due to its location. The monopole is located behind a fenced in area with no public access. The equipment cabinet will be located in a service area which is only accessible to maintenance workers and not to the public.

Section 17.128.080(C) CONDITIONAL USE PERMIT (CUP) FINDINGS FOR MONOPOLE FACILITIES

1. The project must meet the special design review criteria listed in subsection B of this section (17.128.080C):

The proposed project meets the special design review criteria listed in section 17.128.080B.

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:

The site is appropriate because the proposed antennas will be located on a monopole in an unpopulated, wooded area of the EBMUD water tank reservoir site and will serve the near by residential neighborhood without actually on a residential property.

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

The site is appropriate because the proposed antennas will be located on a monopole in an unpopulated, wooded area of the EBMUD water tank reservoir site thus it will not disrupt the overall community character of the site.

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 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.

CONDITIONS OF APPROVAL
CMD13-168

STANDARD CONDITIONS:

1. Approved Use
Ongoing

a) The project shall be constructed and operated in accordance with the authorized use as described in the application materials, **CMD13-168**, and the plans dated **May 14, 2013** and submitted on **June 6, 2013** and as amended by the following conditions. Any additional uses or facilities other than those approved with this permit, as described in the project description and the approved plans, will require a separate application and approval. Any deviation from the approved drawings, Conditions of Approval or use shall required prior written approval from the Director of City Planning or designee.

b) This action by the City Planning Commission ("this Approval") includes the approvals set forth below. This Approval includes: **the installation of a new Monopole (Mono-pine) telecommunication facility to look like a Pine tree with nine (9) telecommunication antennas, fifteen (15) Remote Radio Units (RRU's) and one (1) equipment shelter to contain the equipment cabinets at 4491 Briar Cliff Road. (APN: 048-6845-006-01), under Oakland Municipal Code 17.128, 17.136, 17.148 and 17.134.**

2. Effective Date, Expiration, Extensions and Extinguishment
Ongoing

Unless a different termination date is prescribed, this Approval shall expire **two calendar years** from the approval date, unless within such period all necessary permits for construction or alteration have been issued, or the authorized activities have commenced in the case of a permit not involving construction or alteration. Upon written request and payment of appropriate fees submitted no later than the expiration date of this permit, the Director of City Planning or designee may grant a one-year extension of this date, with additional extensions subject to approval by the approving body. Expiration of any necessary building permit for this project may invalidate this Approval if the said extension period has also expired.

3. Scope of This Approval; Major and Minor Changes
Ongoing

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

4. Conformance with other Requirements
Prior to issuance of a demolition, grading, P-job, or other construction related permit

a) The project applicant shall comply with all other applicable federal, state, regional and/or local codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Building Services Division, the City's Fire Marshal, and the City's Public Works Agency.

b) The applicant shall submit approved building plans for project-specific needs related to fire protection to the Fire Services Division for review and approval, including, but not limited to automatic extinguishing systems, water supply improvements and hydrants, fire department access, and vegetation management for preventing fires and soil erosion.

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

a) Site shall be kept in a blight/nuisance-free condition. Any existing blight or nuisance shall be abated within 60-90 days of approval, unless an earlier date is specified elsewhere.

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

c) Violation of any term, conditions or project description relating to the Approvals is unlawful, prohibited, and a violation of the Oakland Municipal Code. The City of Oakland reserves the right to initiate civil and/or criminal enforcement and/or abatement proceedings, or after notice and public hearing, to revoke the Approvals or alter these conditions if it is found that there is violation of any of the conditions or the provisions of the Planning Code or Municipal Code, or the project operates as or causes a public nuisance. This provision is not intended to, nor does it, limit in any manner whatsoever the ability of the City to take appropriate enforcement actions.

6. Signed Copy of the Conditions
With submittal of a demolition, grading, and building permit
A copy of the approval letter and conditions shall be signed by the property owner, notarized, and submitted with each set of permit plans to the appropriate City agency for this project.

7. Indemnification
Ongoing

a) To the maximum extent permitted by law, the applicant shall defend (with counsel acceptable to the City), indemnify, and hold harmless the City of Oakland, the Oakland City Council, the City of Oakland Redevelopment Agency, the Oakland City Planning Commission and its respective agents, officers, and employees (hereafter collectively called City) from any liability, damages, claim, judgment, loss (direct or indirect)action, causes of action, or proceeding (including legal costs, attorneys' fees, expert witness or consultant fees, City Attorney or staff time, expenses or costs) (collectively called "Action") against the City to attack, set aside, void or annul, (1) an approval by the City relating to a development-related application or subdivision or (2) implementation of an approved development-related project. The City may elect, in its sole discretion, to participate in the defense of said Action and the applicant shall reimburse the City for its reasonable legal costs and attorneys' fees.

b) Within ten (10) calendar days of the filing of any Action as specified in subsection A above, the applicant shall execute a Letter of Agreement with the City, acceptable to the Office of the City Attorney, which memorializes the above obligations. These obligations and

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

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

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

10. Job Site Plans
Ongoing throughout demolition, grading, and/or construction
At least one (1) copy of the stamped approved plans, along with the Approval Letter and Conditions of Approval, shall be available for review at the job site at all times.

11. Special Inspector/Inspections, Independent Technical Review, Project Coordination and Management
Prior to issuance of a demolition, grading, and/or construction permit
The project applicant may be required to pay for on-call special inspector(s)/inspections as needed during the times of extensive or specialized plancheck review, or construction. The project applicant may also be required to cover the full costs of independent technical and other types of peer review, monitoring and inspection, including without limitation, third party plan check fees, including inspections of violations of Conditions of Approval. The project applicant shall establish a deposit with the Building Services Division, as directed by the Building Official, Director of City Planning or designee.

12. Days/Hours of Construction Operation
Ongoing throughout demolition, grading, and/or construction
The project applicant shall require construction contractors to limit standard construction activities as follows:

a) Construction activities are limited to between 7:00 AM and 7:00 PM Monday through Friday, except that pile driving and/or other extreme noise generating activities greater than 90 dBA shall be limited to between 8:00 a.m. and 4:00 p.m. Monday through Friday.

b) Any construction activity proposed to occur outside of the standard hours of 7:00 am to 7:00 pm Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.

c) Construction activity shall not occur on Saturdays, with the following possible exceptions:

i. Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case by case basis, with criteria including the proximity of residential uses and a consideration of resident's preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division.

ii. After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed.

d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.

e) No construction activity shall take place on Sundays or Federal holidays.

f) Construction activities include but are not limited to: truck idling, moving equipment (including trucks, elevators, etc) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.

13. Landscape Maintenance

Ongoing

All new landscaping shall be permanently maintained in good growing condition and, whenever necessary, replaced with new plant materials to ensure continued compliance with applicable landscaping requirements.

14. Operational Noise-General

Ongoing

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

PROJECT SPECIFIC CONDTIONS:

15. Radio Frequency Emissions

Prior to the final building permit sign off

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

ATTACHMENT A

USA NORTH
OF CENTRAL/NORTHERN CALIFORNIA AND NEVADA
DIAL TOLL FREE 1-800-227-2600
AT LEAST TWO WORKING DAYS BEFORE YOU DIG

at&t

SITE NUMBER: CNU4010
SITE NAME: KELLER AVENUE

4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

A/E DOCUMENT REVIEW STATUS		
Status Code		
1	✓	Accepted - With minor or no comments, construction may proceed
2		Not Accepted - Please resolve comments and resubmit

Acceptance does not constitute approval of design details, calculations, analysis, test methods or materials developed or selected by the subcontractor and does not relieve subcontractor from full compliance obligations.

	ENG	CONST	COMPLIANCE	SA
Reviewed	PD	N/A	STL 6/4/13	
Status By	pdelacruz@bechtel.com		Date	06.04.13

RF DATA SHEET

DATE ISSUED: 02/07/13 REVISION: 1.1

DRAWING INDEX

		REV
25471-630-A1-CNU4010-T01	TITLE SHEET, SITE INFO AND VICINITY MAP	1
25471-630-A1-CNU4010-LS1	TOPOGRAPHIC SURVEY	1
25471-630-A1-CNU4010-A01	OVERALL SITE PLAN	1
25471-630-A1-CNU4010-A02	SHELTER AND MONOPOLE COMPOUND LAYOUT	1
25471-630-A1-CNU4010-A03	EQUIPMENT LAYOUT AND ANTENNA PLAN	1
25471-630-A1-CNU4010-A04	ELEVATIONS	1
25471-630-A1-CNU4010-D01	EQUIPMENT AND ANTENNA DETAILS	1
25471-630-A1-CNU4010-D02	RF SIGNAGE DETAILS	
25471-630-A1-CNU4010-L1	LANDSCAPE PLAN	1
25471-630-A1-CNU4010-L2	LANDSCAPE DETAILS AND NOTES	1

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.

1. 2010 CALIFORNIA ADMINISTRATIVE CODE
2. 2010 CALIFORNIA BUILDING CODE
3. 2010 CALIFORNIA ELECTRICAL CODE
4. 2010 CALIFORNIA MECHANICAL CODE
5. 2010 CALIFORNIA PLUMBING CODE
6. 2010 CALIFORNIA FIRE CODE
7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
8. CITY/COUNTY ORDINANCES

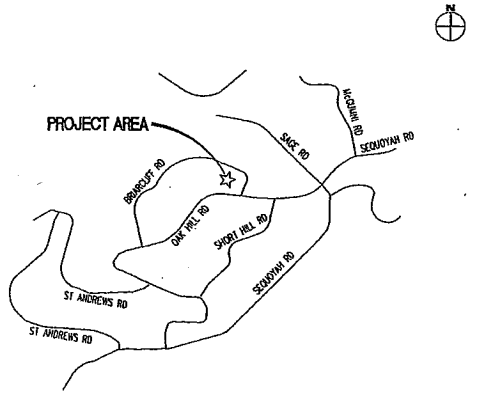
HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 11038.

DIRECTIONS

DIRECTIONS FROM PLEASANTON, CA:

1. HEAD EAST ON ROSEWOOD DR TOWARD OLD SANTA RITA RD.
2. TURN LEFT ONTO SANTA RITA RD.
3. MERGE ONTO I-580 W VIA THE RAMP TO OAKLAND.
4. KEEP RIGHT STAY ON I-580 W, FOLLOW SIGNS FOR OAKLAND/SAN FRANCISCO.
5. TAKE EXIT 29 FOR GOLF LINKS RD. TOWARD 98TH AVE.
6. TURN RIGHT ONTO GOLF LINKS RD.
7. TURN LEFT ONTO MOUNTAIN BLVD.
8. TAKE THE 2ND RIGHT ONTO SEQUOYAH RD.
9. TURN LEFT ONTO OAK HILL RD.
DESTINATION WILL BE ON THE RIGHT.

VICINITY MAP



PROJECT DESCRIPTION

THIS IS AN APPLICATION FOR A PROPOSED, UNMANNED AT&T SERVICES FACILITY, CONSISTING OF THE INSTALLATION AND OPERATION OF ANTENNAS AND ASSOCIATED EQUIPMENT. AT&T IS PROPOSING TO INSTALL INDOOR EQUIPMENT CABINETS AND RACKS INSIDE ONE (1) CA-APPROVED PREFABRICATED FIBERBOND EQUIPMENT SHELTER ON GROUND LEVEL AS SHOWN ON THE ACCOMPANYING DRAWINGS. TOTAL OF NINE (9) PANEL ANTENNAS ARE TO BE INSTALLED AND MOUNTED ON A 50' HIGH MONOPINE. FIFTEEN (15) REMOTE RADIO UNITS (RRUS-11) NEAR THE ANTENNAS, THREE (3) SURGE PROTECTOR DOME UNITS ON THE MONOPINE NEAR THE ANTENNAS, TWO (2) GPS ANTENNAS TO BE INSTALLED AND MOUNTED ON THE EQUIPMENT SHELTER ROOF.

PROJECT INFORMATION

SITE ADDRESS:	4491 BRIAR CLIFF ROAD OAKLAND, CA. 94605
PROPERTY OWNER:	EAST BAY MUNICIPAL UTILITY DISTRICT
APPLICANT ADDRESS:	AT&T 4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR PLEASANTON, CA 94588
JURISDICTION:	CITY OF OAKLAND
APN:	048-6845-006-01
CENTER OF MONOPINE	
LATITUDE:	37° 45' 58.70" N (NAD 83)
LONGITUDE:	122° 08' 22.02" W (NAD 83)
ELEVATION:	±564.80' AMSL (NAVD 88)
OVERALL HEIGHT (HIGHEST) TOP OF BRANCHES:	50' AGL
HEIGHT OF STRUCTURE TOP OF MONOPINE POLE:	45' AGL
TOP OF PROPOSED ANTENNAS:	45' AGL
CURRENT USE:	WATER TANK/ OTHER TELECOMMUNICATIONS FACILITIES
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

SITE QUALIFICATION PARTICIPANT

	NAME	COMPANY	CONTACT NUMBER
A/E	SOHAIL A. SHAH (EOR) PAULO PUELIU	PDC CORPORATION PDC CORPORATION	(925) 606-5888 (510) 385-5541
SAC	JENNIFER HIGHTOWER	SAC WIRELESS	(916) 529-9467 M
RF	MICHAEL QUINTO	AT&T	(925) 523-1062
ZONING	JENNIFER HIGHTOWER	SAC WIRELESS	(916) 529-9467 M
LANDLORD	PAUL HOOVER	EBMUD	(510) 287-1244
CONSTRUCTION	C.E. RASK	BECHTEL	(925) 983-2320

PDC CORPORATION
1062 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5888

KELLER AVENUE
CNU4010
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

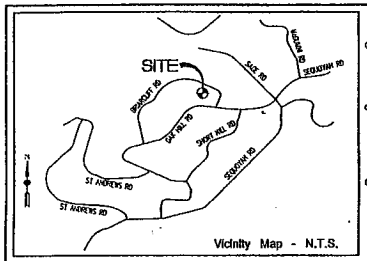
at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/14/13	ISSUED FOR ZD REVIEW	GC	MIF	SAS
0	04/24/13	ISSUED FOR ZD REVIEW	GC	MIF	SAS

SCALE: AS NOTED DESIGNED BY: DRAWN BY:

SHEET TITLE
TITLE SHEET, SITE INFORMATION AND VICINITY MAP

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	T01	1



Vicinity Map - N.T.S.

Title Insurance Report

PREPARED BY: NORTH AMERICAN TITLE COMPANY
FILE NO.: 1204378
DATED: NOVEMBER 8, 2012

Assessor's Parcel No.

048-6845-006-01

Geographic Coordinates
Center Of Proposed Monopine

LAT: 37° 45' 58.70" N LONG: 122° 08' 22.02" W (NAD83)

Legal Description

REAL PROPERTY IN THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

LOTS 101 AND 102, AS SAID LOTS ARE SHOWN ON THE MAP OF SUBDIVISION SEQUOYAH HILLS, OAKLAND, CALIFORNIA., FILED APRIL 3, 1914, IN BOOK 28 OF MAPS, AT PAGES 83 AND 84, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY.

EXCEPTING THEREFROM THAT PORTION OF LOT 101 DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERN CORNER OF LOT 101, AND RUNNING THENCE ALONG THE ROADWAY DESIGNATED AS LOT 'A' ON SAID MAP SOUTHEASTERLY 10 FEET; THENCE IN A SOUTHERLY DIRECTION TO THE SOUTHEASTERN CORNER OF LOT 100, AS SHOWN ON SAID MAP; THENCE NORTH 5° 08' 45. EAST 137 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM ALL THAT PORTION DESCRIBED IN THE DEED TO THE CITY OF OAKLAND RECORDED JUNE 14, 1955 BOOK 7690, PAGE 182 OFFICIAL RECORDS.

Proposed Lease Area

EDREAL PROPERTY IN THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

A PORTION OF LAND THROUGH A PORTION OF LOT 102, AS SAID LOT ARE SHOWN ON THE MAP OF SUBDIVISION SEQUOYAH HILLS, OAKLAND, CALIFORNIA., FILED APRIL 3, 1914, IN BOOK 28 OF MAPS, AT PAGES 83 AND 84, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT HEREINAFTER REFERRED TO AS POINT "A" HAVING THE COORDINATES OF N=2105822.99 AND E=6087791.48 (CCS83-EPOCH 2010.00); THENCE NORTH 9°00'00" EAST 20.00 FEET, THENCE SOUTH 80°00'00" WEST 11.42 FEET; THENCE NORTH 9°00'00" WEST 9.65 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "B"; THENCE NORTH 00°00'00 WEST 10.35 FEET; THENCE NORTH 00°00'00" EAST 11.42 FEET TO THE TRUE POINT OF BEGINNING.

CONTAINS 228.40 S.F OF LAND, MORE OR LESS.

Proposed Underground Utility Easement

REAL PROPERTY IN THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

A 3.0 FEET STRIP OF LAND THROUGH A PORTION OF LOTS 101 AND 102, AS SAID LOTS ARE SHOWN ON THE MAP OF SUBDIVISION SEQUOYAH HILLS, OAKLAND, CALIFORNIA., FILED APRIL 3, 1914, IN BOOK 28 OF MAPS, AT PAGES 83 AND 84, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY AND WITHIN THAT 13 FEET STREET RESERVE PORTION DESCRIBED IN THE DEED TO THE CITY OF OAKLAND RECORDED JUNE 14, 1955 BOOK 7690, PAGE 182 OFFICIAL RECORDS. THE SIDES OF SAID STRIP IS 1.50 FEET ON BOTH SIDES OF THE DESCRIBED CENTERLINE:

BEGINNING AT A POINT HEREINAFTER REFERRED TO AS POINT "C" HAVING THE COORDINATES OF N=2105536.58 AND E=6087630.87 (CCS83-EPOCH 2010.00); THENCE NORTH 00°58'00" WEST 122.34 FEET; THENCE NORTH 28°24'38 WEST 70.87 FEET; THENCE NORTH 70°58'43" EAST 39.54 FEET; THENCE SOUTH 87°32'48" EAST 144.50 FEET; THENCE SOUTH 02°05'34" WEST 68.22 FEET; THENCE SOUTH 87°15'32" WEST 24.07 FEET; THENCE NORTH 4.81 FEET TO THE END OF SAID STRIP.

THE SIDES OF SAID STRIP CAN BE PROLONGED OR SHORTENED AT THE SOUTHERLY SIDE OF THE LEASE AREA.

APPROXIMATELY 475.15 L.F IN LENGTH, MORE OR LESS.

Proposed Access Easement

REAL PROPERTY IN THE CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

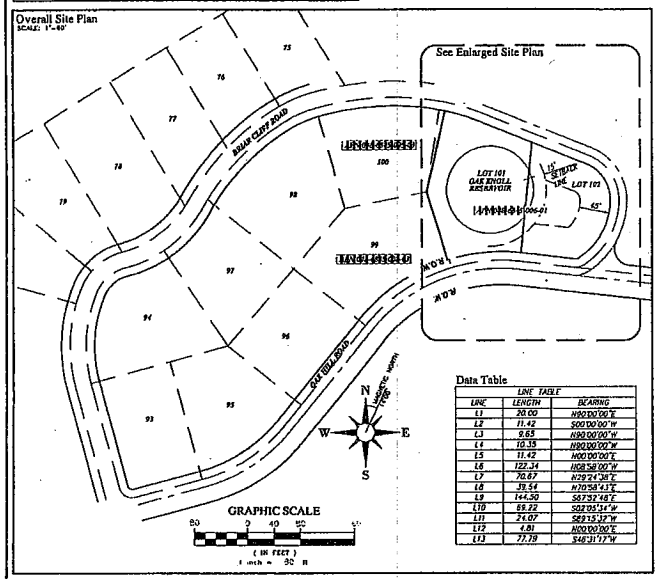
A 12.0 FEET STRIP OF LAND THROUGH A PORTION OF LOTS 101 AND 102, AS SAID LOTS ARE SHOWN ON THE MAP OF SUBDIVISION SEQUOYAH HILLS, OAKLAND, CALIFORNIA., FILED APRIL 3, 1914, IN BOOK 28 OF MAPS, AT PAGES 83 AND 84, IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY AND WITHIN THAT 13 FEET STREET RESERVE PORTION DESCRIBED IN THE DEED TO THE CITY OF OAKLAND RECORDED JUNE 14, 1955 BOOK 7690, PAGE 182 OFFICIAL RECORDS. THE SIDES OF SAID STRIP IS 6.00 FEET ON BOTH SIDES OF THE DESCRIBED CENTERLINE:

BEGINNING AT A POINT HEREINAFTER REFERRED TO AS POINT "D", THENCE SOUTH 46°31'17" WEST 77.79 FEET TO THE END OF SAID STRIP.

THE SIDES OF SAID STRIP CAN BE PROLONGED OR SHORTENED AT THE SOUTHERLY SIDE OF THE LEASE AREA.

APPROXIMATELY 77.79 L.F IN LENGTH

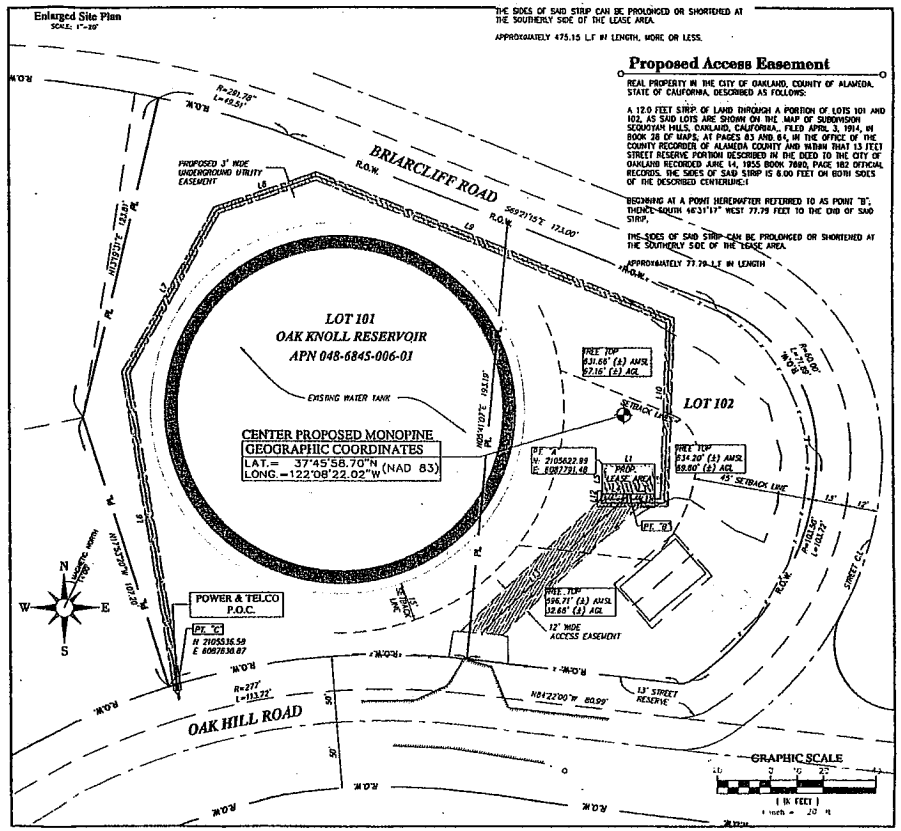
Overall Site Plan
SCALE: 1"=40'



Data Table

LINE TABLE		
LINE	LENGTH	BEARING
L1	20.00	N80°00'00"E
L2	11.42	S00°00'00"W
L3	9.65	N90°00'00"W
L4	10.35	N80°00'00"W
L5	11.42	N00°00'00"E
L6	122.34	N00°58'00"W
L7	70.87	N28°24'38"E
L8	39.54	N70°58'43"E
L9	144.50	S87°32'48"E
L10	68.22	S02°05'34"W
L11	24.07	S87°15'32"W
L12	4.81	N00°00'00"E
L13	77.79	S46°31'17"W

Enlarged Site Plan
SCALE: 1"=20'



Basis of Bearings

THE BEARINGS AND COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM- ZONE 3 (CCS83-EPOCH 2007.0) NAD83.

Benchmark:

THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS BENCHMARK No. HI1883, ELEVATION=330.30' (NGVD 88).

Date of Survey

MARCH 4, 2013

Surveyor Note

THIC BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

Symbols - Legend

FS	FINISH SURFACE	ROW	RIGHT-OF-WAY
NG	NATURAL GROUND	PBX	UTILITY PULLBOX
FL	FLOW LINE	GRND	ELECTRIC GROUND
LIP	LIP OF CONCRETE	M	METER
CB	CATCH BASIN	V	VALVE
TC	TOP OF CURB	VLT	VAULT
TW	TOP OF WALL	FO	FIBER OPTIC
TOS	TOP OF STRUCTURE		FOUND MONUMENT
GN	GUARDRAIL		FIRE HYDRANT
OHE	OVERHEAD ELECTRIC CABLE		POWER POLE
RL	RIDGE LINE		GATE/DOOR
R	ROOF ELEVATION		STANDARD LIGHT
BTM	BOTTOM OF STRUCTURE		HANDICAPPED
ANT	ANT OF STRUCTURE		TREE
HH/CLE	HAND HOLE		CONIFER TREE
ANT	ANTENNA		PALM TREE
POC	POINT OF CONNECTION OR POINT OF BEGINNING		CONCRETE
POB	POINT OF BEGINNING		
EL(1st)/EL(2nd)	ELEVATIONS FIRST LEVEL		
PED	UTILITY PEDESTAL		
CAB	UTILITY CABINET		
LO	LOWER SPOT ELEVATION		
EC/TC	EDGE/TOP OF CURB		

	ROW LINE
	PROPERTY LINE
	LOT LINE
	OLD RECORD MAPS LINE
	CENTER LINE
	EOP
	CHAIN LINK FENCE
	WOOD FENCE
	IRON FENCE
	ELECTRIC LINE
	OVERHEAD ELECTRIC LINE
	TELECOM LINE
	GAS LINE
	WATER LINE
	STORM DRAIN LINE (D) (SD)
	FIBER OPTIC CABLE LINE
	SANITARY SEWER LINE (SS)

R.FRANCISCO & Associates
Civil Engineering Land Development
21994 TIMBER RIDGE CT.
WILDOMAR, CA. 92595
Tel: (951) 973-0676
EMAIL: rf.associates@verizon.net
PLANS PREPARED BY

POD CORPORATION
1062 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5888
CONSULTANT

KELLER AVENUE
CNU4010
4491 BRIAR CLIFF ROAD
OAKLAND, CA. 94605
PROJECT I.D. NUMBER

at&t
AT&T MOBILITY
4430 ROSEWOOD DRIVE, BUILDING J
PLEASANTON, CA 94588

NO.	DATE	DESCRIPTION	BY	CHK	APP'D
1	04/29/13	ADDRESS COMMENTS	FR	RF	RAK
0	04/02/13	FINAL SUBMITTAL	FR	RF	RAK
A	03/07/13	PRELIM SUBMITTAL	FR	RF	RAK

SCALE: AS SHOWN | DESIGNED: RF | DRAWN: FR

REGISTERED CIVIL ENGINEER — RICHARD F. FRANCISCO — EXP. 12/31/13 — CIVIL — STATE OF CALIFORNIA

04/29/13

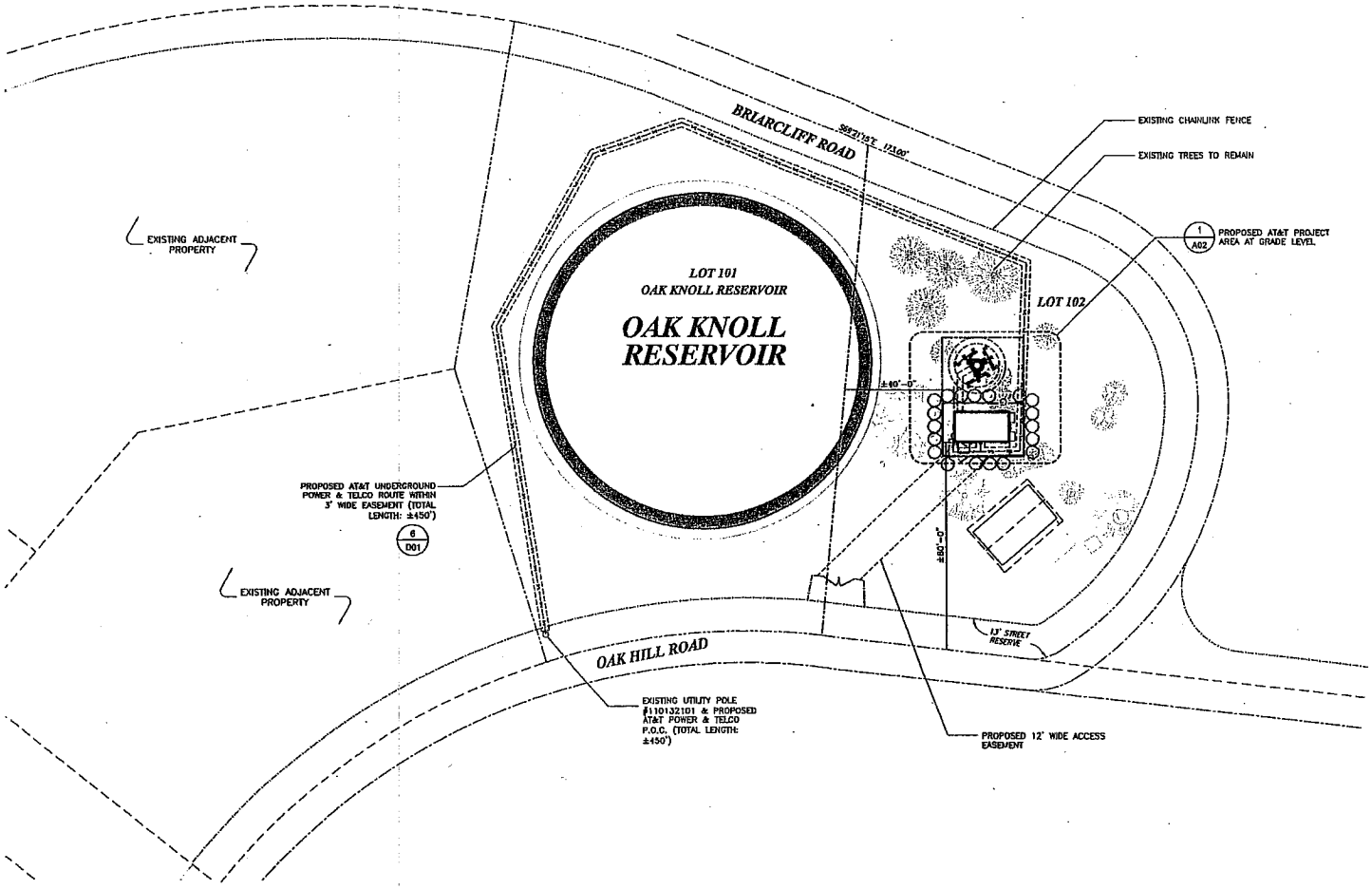
SHEET TITLE
TOPOGRAPHIC SURVEY

JOB NO.	DRAWING NO.	SHEET NO.	REV
25471-630-A1	CNU4010	LS-1 SHEET 1 OF 1	1

6 5 4 3 2 1 D A

SCALE NOTE:

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



NOTES:

- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%

OVERALL SITE PLAN

0 10' 20' 50'

SCALE 1" = 20'-0" | 1

PDC CORPORATION
1082 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5648

KELLER AVENUE
CNU4010
4401 BRIAR CLIFF ROAD
OAKLAND, CA 94605

at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/14/13	ISSUED FOR ZD REVIEW	GC	MJF	SAS
0	04/24/13	ISSUED FOR ZD REVIEW	GC	MJF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE: OVERALL SITE PLAN

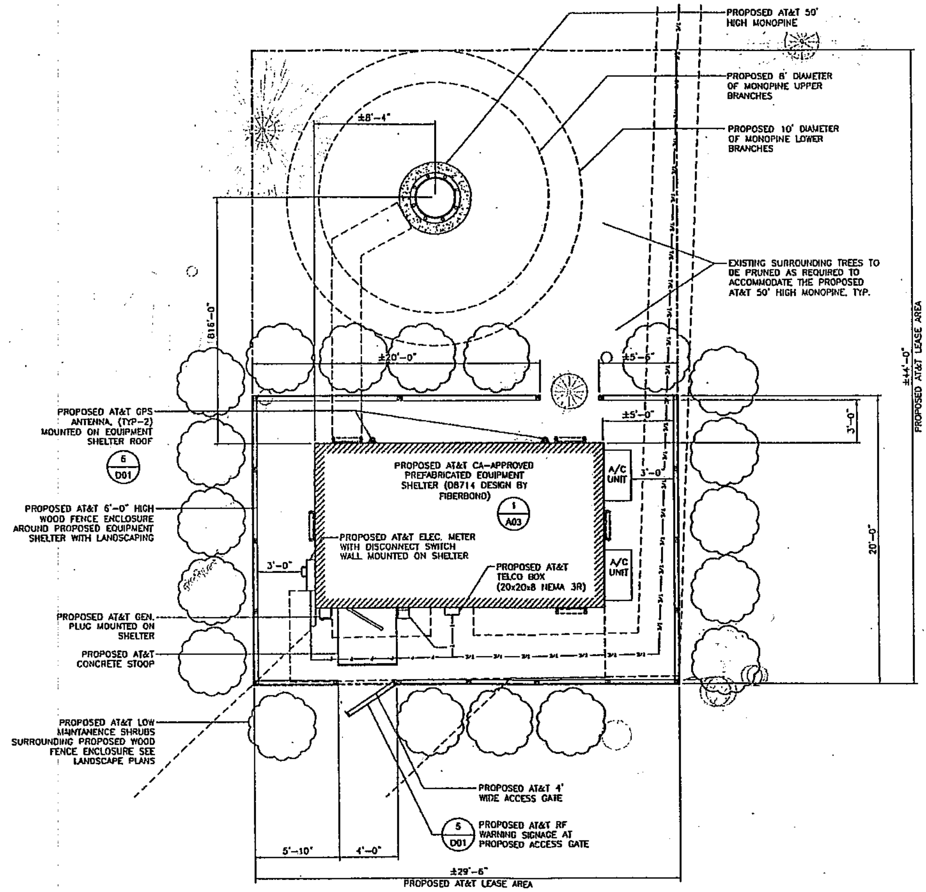
JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	A01	1

SCALE NOTE:

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

NOTES:

- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%



ENLARGED COMPOUND PLAN

0 1' 3' 5'	SCALE 3/8" = 1'-0"	1

PDC CORPORATION
1062 CONCANNON BLVD.
LIVERMORE, CA 94550
TEL: (925) 606-5666

KELLER AVENUE
CNU4010
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/14/13	ISSUED FOR ZD REVIEW	GC	MIF	SAS
0	04/24/13	ISSUED FOR ZD REVIEW	GC	MIF	SAS

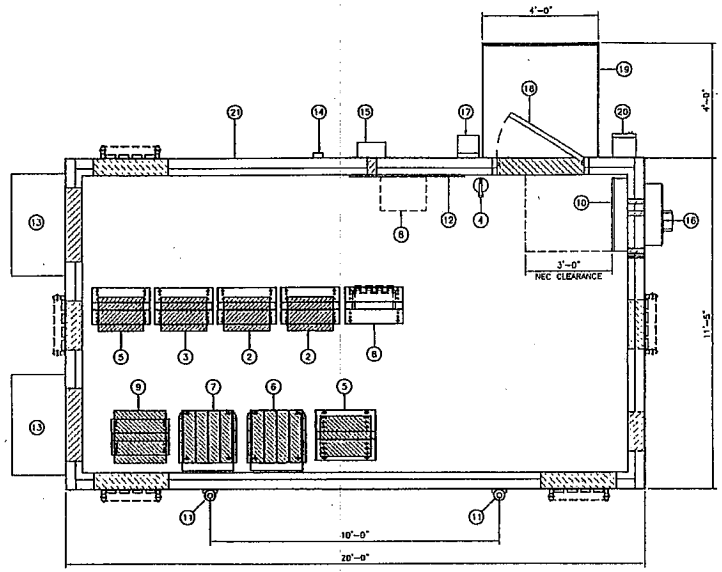
SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE: **SITE PLAN**

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	A02	1

SCALE NOTE:

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

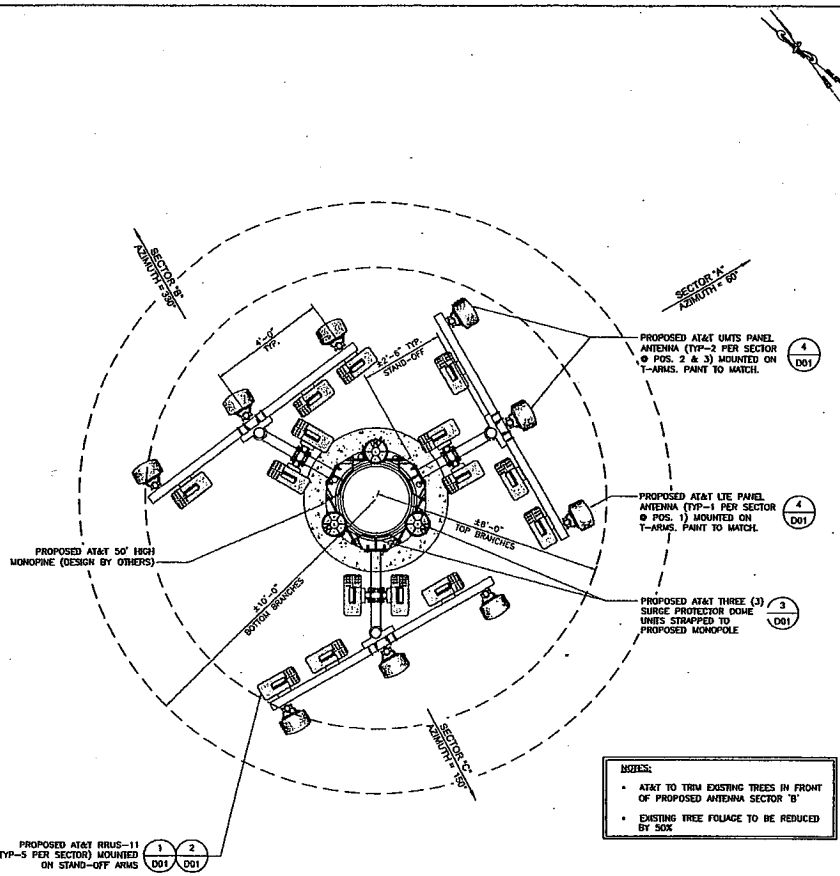


KEYED NOTES:

1. NOT USED
2. PROPOSED AT&T 23" RACK FOR RBS 6601 UNITS (1.5U EACH)
3. PROPOSED AT&T 23" RACK FOR RBS 6601 LTE (1.5U EACH)
4. PROPOSED AT&T FIRE EXTINGUISHER
5. PROPOSED AT&T DC POWER PLANT
6. PROPOSED AT&T BATTERY RACK (LINEAGE 23"-16 BATTERY RACK)
7. PROPOSED FUTURE AT&T BATTERY RACK (LINEAGE 23"-16 BATTERY RACK)
8. OPTIONAL AT&T MUX AND FUTURE UMI/CIENA MOUNT ON WALL OR 23" RACK
9. PROPOSED FUTURE AT&T 23" RACK
10. PROPOSED AT&T 200AMP ELECTRICAL PANEL (PROVIDED WITH SHELTER)
11. PROPOSED AT&T GPS ANTENNA, (TYP-2) MOUNTED ON EQUIPMENT SHELTER ROOF (5/D01)
12. PROPOSED AT&T TELCO BACKBOARD (PROVIDED WITH SHELTER)
13. PROPOSED AT&T A/C UNITS (PROVIDED WITH SHELTER)
14. PROPOSED FIRE DEPT. KNOX KEY BOX
15. PROPOSED AT&T TELCO BOX (20x20x8 NEMA 3R)
16. PROPOSED AT&T ELEC. METER WITH DISCONNECT SWITCH WALL MOUNTED ON SHELTER
17. PROPOSED AT&T FULLY SHIELDED EXTERIOR SERVICE LIGHT
18. PROPOSED AT&T SHELTER ACCESS DOOR WITH EMERGENCY CONTACT INFORMATION SIGNAGE
19. PROPOSED AT&T CONCRETE STOOP
20. PROPOSED AT&T GENERATOR INTERFACE PANEL
21. PROPOSED AT&T CA-APPROVED PREFABRICATED EQUIPMENT SHELTER (DB714 DESIGN BY FIBERBOND)

EQUIPMENT LAYOUT PLAN

0 1' 2' 4' SCALE 1/2" = 1'-0" 1



NOTES:
- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%

ANTENNA PLAN

0 1' 2' 4' SCALE 1/2" = 1'-0" 2

POC CORPORATION
1062 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5968

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OAKLAND, CA 94605

at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/14/13	ISSUED FOR ZD REVIEW	GC	MF	SAS
0	04/26/13	ISSUED FOR ZD REVIEW	GC	MF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE: EQUIPMENT LAYOUT AND ANTENNA PLAN

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	A03	1

6 5 4 3 2 1

D C B A

SCALE NOTE:

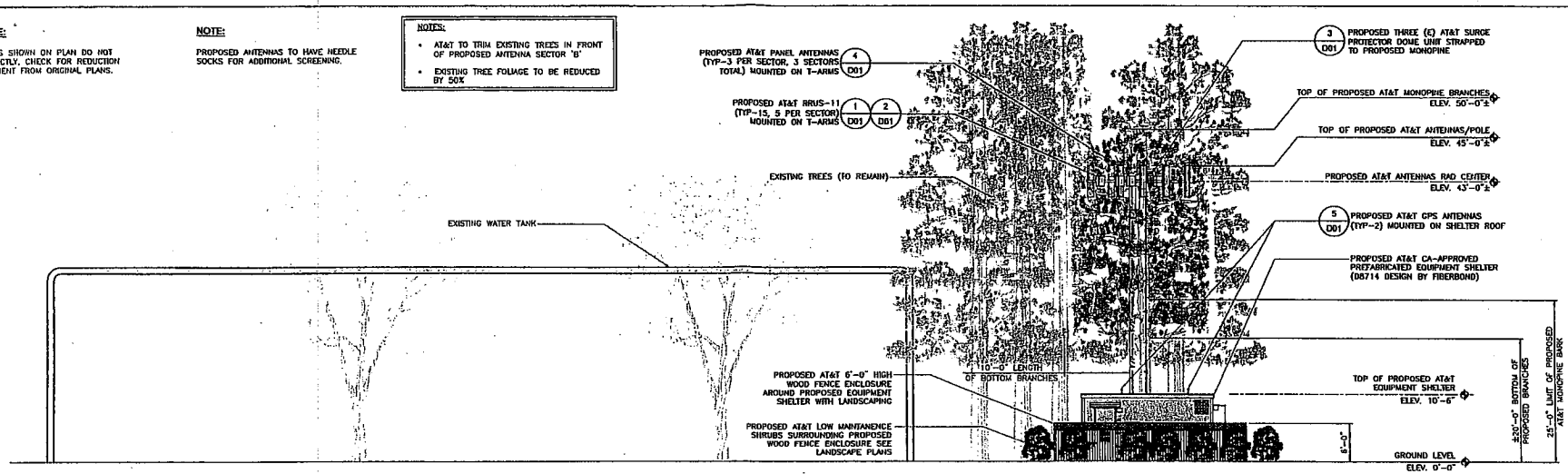
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

NOTE:

PROPOSED ANTENNAS TO HAVE NEEDLE SOCKS FOR ADDITIONAL SCREENING.

NOTES:

- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%



SOUTH ELEVATION - ANTENNA AREA

0 3' 10' 15' SCALE 3/16" = 1'-0" 2

SCALE NOTE:

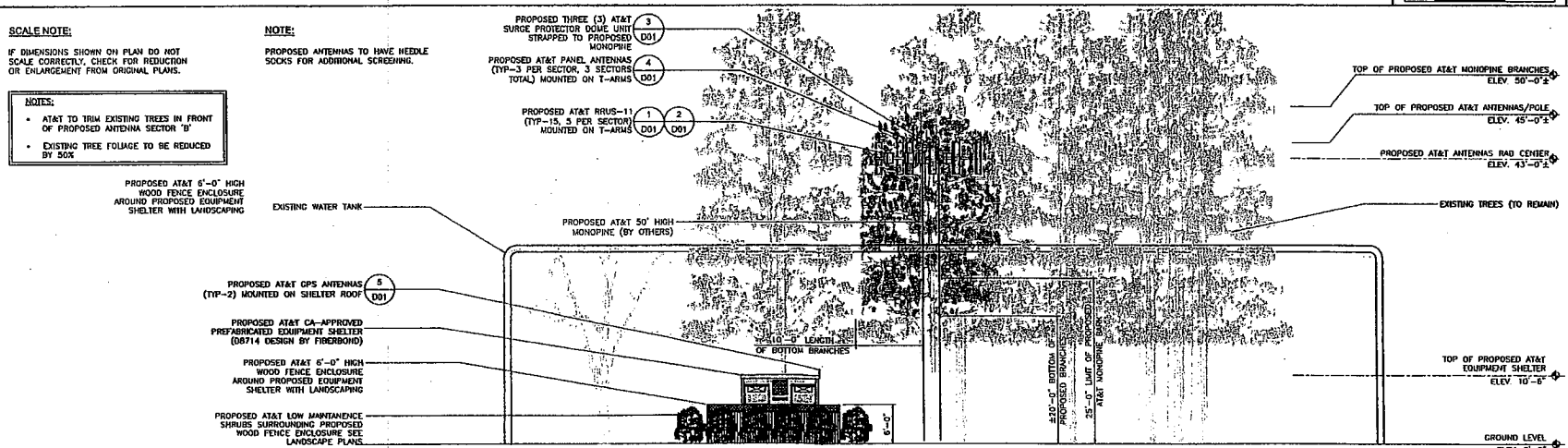
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

NOTE:

PROPOSED ANTENNAS TO HAVE NEEDLE SOCKS FOR ADDITIONAL SCREENING.

NOTES:

- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%



EAST ELEVATION - ANTENNA AREA

0 3' 10' 15' SCALE 3/16" = 1'-0" 2

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LIVERMORE, CA 94550
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at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

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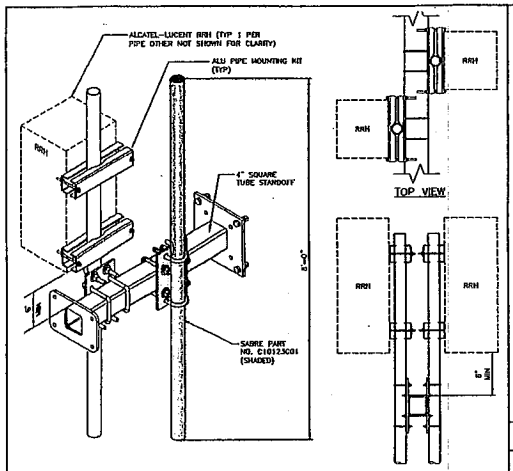
0	04/24/13	ISSUED FOR ZD REVIEW	GC	MF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE

PROPOSED SOUTH AND EAST ELEVATIONS

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	A04	1



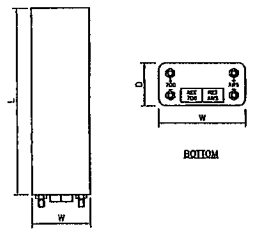
SCALE NOTE:

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

RRH PIPE STANDOFF MOUNTS

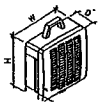
DETAIL 1107A NTS

RPH PIPE STANDOFF MOUNTS | 1



BAND	DUAL
FREQUENCIES, MHZ	698-896 1710-2180
POLARIZATION	DUAL
RET	INSTALLED
L, IN	56.7
W, IN	18.2
D, IN	7.1
WGHT, LB	39.7

DETAIL 1506 NTS



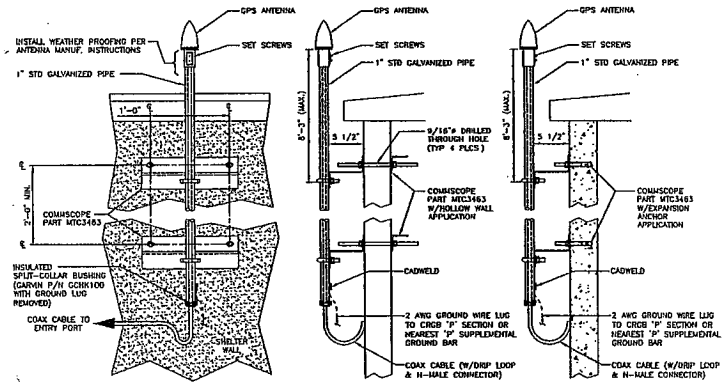
RRUS-11

SIZE AND WEIGHT TABLE

RRH	WIDTH	DEPTH	HEIGHT	WEIGHT W/O BRACKET
RRUS11(700 MHz) WITHOUT SOLAR SHIELD	16.3"	5.8"	16.3"	44 LBS
RRUS11(700 MHz) WITH SOLAR SHIELD	17"	7.2"	19.7"	55 LBS.
RRUS11 (AWS 1700/2100 MHz) WITHOUT SOLAR SHIELD	16.3"	5.8"	16.3"	50 LBS.
RRUS11 (AWS 1700/2100 MHz) WITH SOLAR SHIELD	17"	7.2"	19.7"	51 LBS.

NOTE: DIMENSIONS INCLUDE SOLAR SHIELD

RRUS-11 SPECIFICATIONS | 2

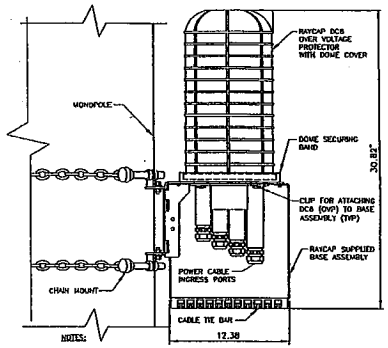


NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.
3. CADWELDING SHALL NOT BE PERFORMED ON ROOFTOPS. BURNDY TYPE C-11N OR EQUIVALENT GROUND CABLE CLAMP MAY BE USED AS ALTERNATE.
4. LTE-GPS ANTENNA SHALL BE LOCATED A MINIMUM OF 10' FROM ALL ANTENNAS.

GPS ANTENNA MOUNTED TO SHELTER WALL

DETAIL 1121B NTS



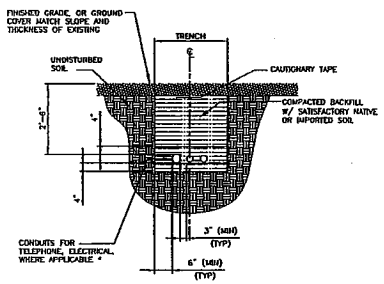
NOTES:

1. RAYCAP VIA AT&T SUPPLIES THE DC6 OVER VOLTAGE PROTECTOR AND THE BASE ASSEMBLY. SUBCONTRACTOR SHALL SUPPLY THE CHAIN MOUNT.
2. NO PAINTING OF THE OVER VOLTAGE PROTECTOR (OVP) IS ALLOWED.

RAYCAP DC6-48-60-18-8F
DC POWER OVER VOLTAGE PROTECTOR (OVP)
CHAIN MOUNT BASE ASSEMBLY

DETAIL 1116F NTS

SURGE PROTECTION DOME UNIT DETAIL | 3



* CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

DIRECT BURIED CONDUIT

DETAIL 1133 NTS

ANTENNA SPECIFICATION | 4

GPS ANTENNA DETAIL | 5

TRENCHING DETAIL | 6

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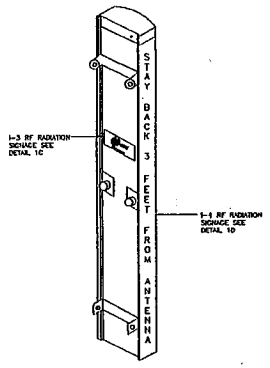
SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

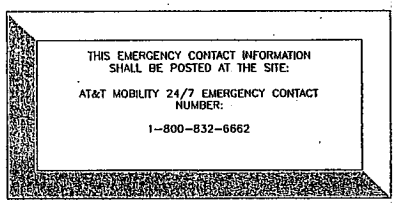
SHEET TITLE
EQUIPMENT AND ANTENNA DETAILS

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	D01	1

6 5 4 3 2 1

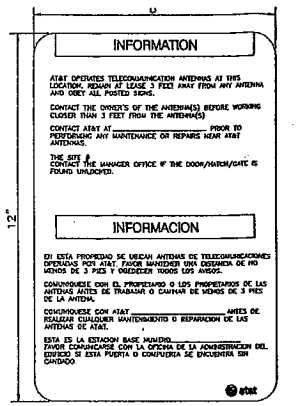


ANTENNA SIGNAGE DETAIL | 1

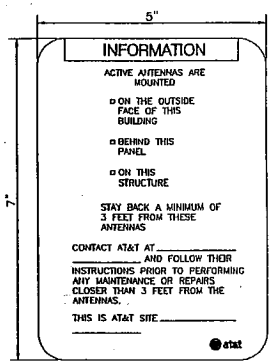


EMERGENCY CONTACT

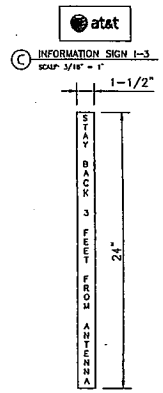
EMERGENCY CONTACT | 2



A INFORMATION SIGN 1-1 SCALE: 1/2" = 1"



B INFORMATION SIGN 1-2 SCALE: 3/4" = 1"



C INFORMATION SIGN 1-3 SCALE: 3/16" = 1"

D INFORMATION SIGN 1-4 SCALE: 3/16" = 1"

1. CONTRACTOR SHALL INSTALL ALL INFORMATION SIGNAGE IN ACCORDANCE RF EXPOSURE POLICY AND RF SAFETY COMPLIANCE PROGRAM, LATEST EDITION.

2. FABRICATION:

SIGN 1-1: ENTRANCE DOOR, SEE DETAILS 1A, THIS SHEET

INFORMATION SIGN #1 IS TO BE MADE ON THE 50 MIL ALUMINUM SHEETING (SIZE 8 INCHES BY 12 INCHES) WITH FOUR (4) 1/4 INCH MOUNTING HOLES, ON EACH CORNER OF THE SIGN FOR MOUNTING WITH HARDWARE WITH TENWAYS. THE MAIN BACKBOARD COLOR IS TO BE WHITE FRONT AND BACK WITH BLACK LETTERING. THE INFORMATION BAND SHALL BE 1.2 INCH SOLID GREEN BAND WITH 0.5 INCH HIGH BLACK LETTERING. THE BODY TEXT SHALL BE IN BLACK LETTERING WITH 0.2 INCH HIGH LETTERS. THE HOT LINE SHALL BE IN 1/8 INCH LETTERS. THE PLACEMENT OF TEXT SHALL BE DONE IN A MANNER THAT WILL PERMIT EASY READING FROM DISTANCE OF APPROXIMATELY 6 FEET IN FRONT OF THE SIGN. ALL PAINT WILL BE BAKED WITH ENAMEL WITH UV PROTECTIVE COATING OVER THE FACE OF THE SIGN.

SIGN 1-2: POLE, SEE DETAIL 1B, THIS SHEET

INFORMATION SIGN #2 MUST BE NON-METALLIC LABEL WITH AN ADHESIVE BACKING. THE LABEL SHALL BE MADE USING VINYL OR SIMILAR WEATHERPROOF MATERIAL. THE LABEL SHALL BE APPROXIMATELY 5 X 7 INCHES WITH A WHITE BACKBOARD AND BLACK LETTERING. THE GREEN BAND SHALL BE 1.375 INCH HEIGHT AND THE LETTERING SHALL BE BLACK WITH 0.75 INCH HIGH LETTERS. THE TEXT LETTERING SHALL BE BLACK WITH 1/8 INCH LETTERS. UV PROTECTION SHALL BE PLACED OVER THE FRONT OF THE LABEL.

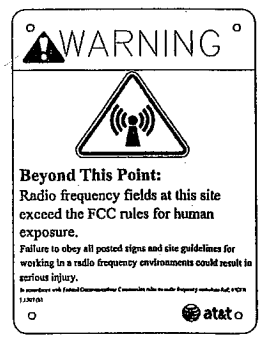
SIGN 1-3: BACK OF ANTENNAS, SEE DETAIL 1C & 4, THIS SHEET

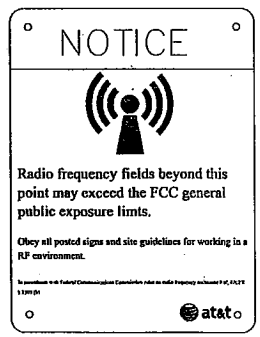
INFORMATION SIGN #3 IS A 1 INCH X 2 INCH LABEL THAT CAN BE APPLIED TO THE BACK OR SIDE OF AN ANTENNA TO IDENTIFY IT AS A AT&T ANTENNA.

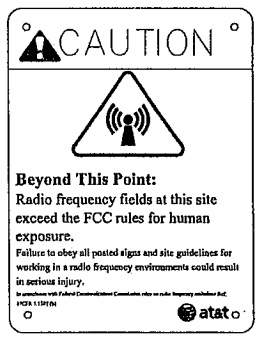
SIGN 1-4: SIDE OF ANTENNAS, SEE DETAIL 1D & 4, THIS SHEET

INFORMATION SIGN #4 IS MADE FROM TRANSPARENCY MATERIAL, 1-1/2 INCHES WIDE AND 24 INCHES LONG. THE LETTERING MAIN IS TO BE BLACK WITH 1/2 INCH LETTERING IN A VERTICAL COLUMN. THE SPACING BETWEEN WORDS MUST BE SUCH THAT IT IS EASILY READ AND FILLS THE LENGTH OF THE SIGN.

INFORMATION SIGNAGE







NOTES:

1. RF RADIATION SAFETY SIGNS SHALL BE POSTED ONLY WHEN REQUIRED BY RF ENGINEERING OR LOCAL JURISDICTIONAL REQUIREMENTS. RF ENGINEERING SHALL INDICATE THE TYPE AND LOCATION OF RF RADIATION SAFETY SIGNS THAT SHALL BE POSTED WHEN REQUIRED AT A SITE. AT&T SHALL BE NOTIFIED IF A SIGN IS REQUIRED TO BE INSTALLED AT A SITE.

2. RF RADIATION NOTICE SAFETY SIGN SYMBOLS AND COLORING MUST CONFORM TO THE ANSI STANDARD Z535.3 FOR RADIO FREQUENCY ENERGY AND CURRENT FLOW SYMBOLS.

NOTES FOR ROOFTOPS SITES:

1. EITHER NOTICE OR CAUTION SIGNS NEED TO BE POSTED AT EACH SECTOR AS CLOSE AS POSSIBLE TO THE OUTER EDGE OF THE STRIPED OFF AREA ON THE OUTER ANTENNAS OF THE SECTOR.

2. IF ROOFVIEW SHOWS: ONLY BLUE – NOTICE SIGN; BLUE AND YELLOW – CAUTION SIGN, ONLY YELLOW – CAUTION SIGN TO BE INSTALLED.

3. SHOULD THE REQUIRED STRIPPING INTERFERE WITH ANY STRUCTURES OR EQUIPMENT (A/C VENTS, ROOF HATCH, DOOR, OTHER ANTENNAS, DISHES, ETC.), PLEASE NOTIFY AT&T TO MODIFY THE STRIPPING AREA, PRIOR TO STARTING WORK.

ALERT SIGNAGE

INFORMATION AND ALERT SIGNAGE | 3

PDC CORPORATION
1082 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5858

KELLER AVENUE
CNU4010
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OAKLAND, CA 94605

at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

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0	04/24/13	ISSUED FOR ZD REVIEW	GC	MF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE: RF SIGNAGE DETAILS

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	D02	1

6 5 4 3 2 1

D C B A

SCALE NOTE:

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NOTES:

- AT&T TO TRIM EXISTING TREES IN FRONT OF PROPOSED ANTENNA SECTOR 'B'
- EXISTING TREE FOLIAGE TO BE REDUCED BY 50%

USE THESE INSTRUCTIONS IN ADDITION TO DRI-WATER DIRECTIONS

* HAND WATER SCHEDULE- NATURALIZE

PLANT CROWN SHOULD NOT BE BELOW GROUND LEVEL. AFTER PLANTING, SET PLANT SO THE CROWN IS 1/2" MINIMUM ABOVE THE FINISH GRADE. ADJUST THE LEVEL BY ADDING OR REMOVING SOIL AS NECESSARY. PLANTS THAT ARE SET TO LOW WILL DROWN AND DIE

CREATE A BASIN AROUND THE PLANT APPROXIMATELY 24" IN DIAMETER.
APPLY 15 GALLONS OF WATER TO EACH PLANT IMMEDIATELY AFTER PLANTING. IF PLANTING A LARGE AREA, PLANT NO MORE THAN 20-50 PLANTS THEN WATER THEM IN BEFORE CONTINUING

MULCH AROUND AND BETWEEN THE PLANTS IN A FOUR FOOT DIAMETER CIRCLE, 3" DEEP. (SEE NOTES). DO NOT COVER THE PLANT MATERIAL WITH MULCH OR PLACE MULCH UP TO THE PLANT STEM. THIS WILL SUFFOCATE THE PLANT AND IT WILL DIE.

WATER THE NEW PLANTINGS AGAIN AFTER MULCHING. RE-APPLY 15 GALLONS OF WATER TO EACH PLANT

USE THESE INSTRUCTIONS IN ADDITION TO DRI-WATER DIRECTIONS

FOR THE INITIAL ESTABLISHMENT PERIOD-90 DAYS

WATER SHRUBS TWICE A WEEK, DURING THE SPRING SUMMER AND FALL.
(10 GAL. EACH PER WEEK).
DURING WINTER WATER TREES AND SHRUBS ONCE A WEEK (5.0 GAL/WK)

FOR THE REMAINDER OF THE FIRST YEAR-
WATER ONCE A WEEK, DURING THE SPRING SUMMER AND FALL
DURING WINTER WATER ONCE A WEEK -ONLY IF DRY (CHECK WITH MOISTURE PROBE- TYP.)
(5.0 GAL/WK)

FOR THE SECOND YEAR-
WATER ONCE A WEEK, DURING THE SPRING SUMMER AND FALL
DURING WINTER WATER ONCE EVERY TWO WEEKS -ONLY IF DRY (CHECK WITH MOISTURE PROBE-TYP.)

FOR THE THIRD YEAR-
ONLY WATER EVERY TWO WEEKS DURING THE SPRING, SUMMER AND FALL.
DURING WINTER WATER ONCE EVERY MONTH -ONLY IF DRY (CHECK WITH MOISTURE PROBE-TYP.)

FOR THE REMAINDER OF THE LIFE OF THE PLANTING ONLY WATER DURING EXTREMELY DRY PERIODS.

* THIS SCHEDULE IS A GUIDELINE ONLY AND IS NOT MEANT TO REPLACE GOOD LANDSCAPE MAINTENANCE PROCEDURES FOR PLANT CARE. NEWLY PLANTED LANDSCAPES NEED WATER APPLIED MORE FREQUENTLY AND NATURALLY OCCURRING CLIMATE VARIATIONS (RAINFALL AMOUNTS, TEMPERATURE AND WIND EXTREMES) WILL REQUIRE MORE OR LESS WATER BE APPLIED. MAINTENANCE PERSONNEL MUST ADJUST WATERING TIMES, DURATION AND AMOUNT AS NECESSARY TO GUARANTEE HEALTHY PLANT GROWTH.

DriWater for Cellular Applications

3" Solid Tube & Gel Pac

Directions

Step 1- Dig a planting hole to the proper depth for the plant and install the Tube. The bottom of the tube should be directly against the root mass, with the open end facing the roots. When using multiple Tubes, arrange (at) an equal distance around the root mass.

Step 2- Backfill the hole. Remove soil or debris that may have partially filled the Tube to allow room for the entire contents of the 3" Gel Pac.

Step 3- Water plant through the Tube(s) before applying DRIWATER. If the plant is stressed from lack of water, DRIWATER will not liquefy fast enough to bring the plant out of its stressed condition.

Step 4- Carefully cut the 3" DRIWATER Gel Pac from end to end, removing DRIWATER gel completely from the plastic casing. Drop gel into the Tube making certain the DRIWATER makes direct contact with the soil. Wetting the DRIWATER and slipping it down into the Tube will achieve this. Place cap on the Tube. When reapplying DRIWATER, follow the instructions for step 2 above if the Tube(s) are empty. If there is DRIWATER remaining in the Tube, water plant topically and fill Tube with DRIWATER as indicated in step 2.

Considerations

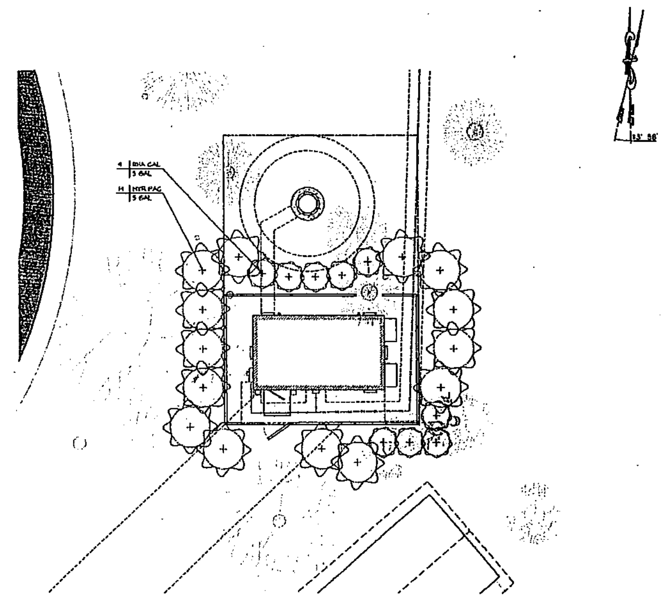
- Amount of annual rainfall and frequency during growing season
- Length of growing season
- Elevation
- Exposure (north, south, east, west)
- Plant species - Requirements will vary depending on plant water demand
- Soil type (clay, sand, loam, rocky, etc.)
- Wind conditions

Usage Recommendations

For the San Francisco Bay Area

June 20, 2011

#DWP-TO (3" Solid Tube, Cap & Gel Pac)	
Container Size	Units Per Plant
1 - Gallon	2 - 4
5 - Gallon	6 - 8
15 - Gallon	10 - 12
24" Box	18
Larger Sizes	To be determined



PLANTING LEGEND

SHRUBS

MYR CAL	MYRICA CALIFORNICA PACIFIC WAX MYRTLE	5 GAL	14	H
RHA CAL	RHAMNUS CALIFORNICA COFFEEBERRY	5 GAL	4	H

MULCH ALL BARE GROUND IN A 6' DIA. CIRCLE AROUND EACH SHRUB TO A DEPTH OF 3"

2 | PHO DAC | 25' BTH — QUANTITY, KEY, SIZE

LICENSED LANDSCAPE ARCHITECT — DAVID H. MERTSCHAN 3385 — 7-31-13 — 05-27-13 — STATE OF CALIFORNIA

DMLA
Landscape Architecture

LANDSCAPE PLANS

PDC CORPORATION
1092 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5868

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CNU4010
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0	04/24/13	ISSUED FOR ZD REVIEW	GC	MIF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SCALE: 1/8" = 1'-0" | 1

SHEET TITLE: **LANDSCAPE PLAN**

JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV
25471-630-A1	CNU4010	L-1	1

SCALE NOTE:

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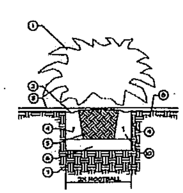
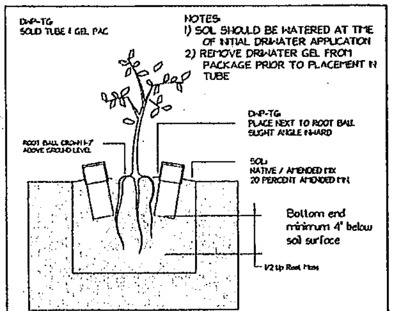


1. SHRUB, SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE, TYP.
2. 3" DEEP SHALLOW BASIN FORMED AROUND ROOTBALL, BELOW FINISH GRADE
3. 2" DEEP MULCH LAYER, HOLD AWAY FROM TRUNK/ STEM
4. 21 GRAM FERTILIZER TABLETS
5. ROOTBALL, UNTANGLE MATTED ROOTS AT EDGE WITH WATER FROM HOSE, DO NOT CRACK ROOTBALL
6. NATIVE SOIL, SCARIFY 6"-10" OR COMPACTED BACKFILL
7. NATIVE GRADE OR COMPACTED FILL
8. FINISH GRADE
9. SCARIFY SIDES OF PLANT PIT
10. AMENDED BACKFILL (MIX PRIOR TO PLACING IN PLANT PIT)

(H) SHRUB PLANTING



(TG) SHRUB & SEEDLING PLANTING DETAIL

TYPICAL INSTALLATION - DWP-TG SOLID TUBE & GEL PAC

nts

P L A N T I N G S P E C S.

I. GENERAL

THESE DRAWINGS ARE DIAGRAMMATIC, SHOWING INTENDED LOCATIONS AND RELATIONSHIPS OF PLANTING ELEMENTS. FINAL SITE CONDITIONS, ALTERED DURING CONSTRUCTION MAY REQUIRE ADJUSTMENTS TO THE LAYOUT.

THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL, TESTED AND INSPECTED PRIOR TO PLANTING.

ANY SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR O.A.R. PRIOR TO PURCHASE AND INSTALLATION.

II. PLANT MATERIAL/QUALITY ASSURANCE

THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR, FAMILIAR WITH THE TYPE OF WORK AND THE CONTRACT DOCUMENTS, ON SITE AT ALL TIMES DURING INSTALLATION OF THE WORK AND PRIMARY MAINTENANCE.

ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE (O.A.R.). THE CONTRACTOR SHALL SUBMIT A LIST OF AVAILABILITY FOR ALL BOXED TREES THIRTY (30) DAYS BEFORE SCHEDULED PLANTING FOR APPROVAL AT THE NURSERY BY THE O.A.R.

CONTRACTOR IS RESPONSIBLE FOR FURNISHING PLANT MATERIAL FREE OF PESTS OR DISEASES AND NORMAL IN FORM FOR THE SPECIES AND DESIGN CALLED FOR IN THE PLANS.

ONLY AS MANY PLANTS AS CAN BE PLANTED AND WATERED THAT SAME DAY SHALL BE DISTRIBUTED IN A PLANTING AREA.

THE CONTRACTOR SHALL NOT INSTALL PLANT MATERIAL THAT IS WILTED OR HAS A DAMAGED ROOT BALL.

CONTRACTOR SHALL NOT INSTALL TREES WITHIN TEN (10) FEET OF ROTORS/ IMPACT HEADS OR WITHIN THREE (3) FEET OF STREAM/ SPRAY HEADS.

ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM, SIZE AND TEXTURAL DENSITY.

SOIL AMENDMENT AND BACKFILL MIX AS DESCRIBED HEREIN ARE FOR BIDDING PURPOSES ONLY. SPECIFIC AMENDMENTS AND FERTILIZER WILL BE SELECTED AND SPECIFIED AFTER ROUGH GRADING IS COMPLETE AND SOILS SAMPLES CAN BE TESTED. AMENDMENT AND FERTILIZER AMOUNT AND TYPE SHALL BE AS RECOMMENDED IN THE AGRONOMIC SOILS REPORT.

III. WEED ABATEMENT

WEED ABATEMENT SHALL BEGIN AFTER ROUGH GRADING. CONTRACTOR TO IRRIGATE PLANTING AREA FOR THREE (3) WEEKS OR UNTIL SUFFICIENT WEED SEEDS HAVE GERMINATED, AFTER WHICH A CONTACT HERBICIDE IS SPRAYED BY A LICENSED PEST CONTROL APPLICATOR. IRRIGATION IS STOPPED FOR FORTY-EIGHT (48) HOURS. THE DEAD WEEDS ARE THEN REMOVED AND AFTER SUCH TIME AS NECESSARY FOR THE HERBICIDE TO DISSIPATE, PLANTING MAY BEGIN.

IV. SOIL PREPARATION

NO SOIL PREPARATION SHALL BE DONE UNTIL ROUGH GRADING HAS BEEN APPROVED BY THE O.A.R.

CROSS RIP ALL PLANTING AREAS TO DEPTH OF TWELVE (12) INCHES AND UNIFORMLY BLEND THE FOLLOWING AMENDMENTS INTO THE TOP SIX (6) INCHES AS PART OF THE FINISH GRADING WORK.

PER THOUSAND (1000) SQUARE FEET:
TWO HUNDRED (200) POUNDS "GRO-POWER PLUS"
SIX (6) CUBIC YARDS NITROGEN STABILIZED ORGANIC AMENDMENT
TWO HUNDRED (200) POUNDS AGRICULTURAL GYPSUM

V. FINISHED GRADING

AFTER ROUGH GRADING, WEED ABATEMENT AND SOIL PREPARATION ALL PLANTING AREAS SHALL BE SMOOTHLY GRADED. THE GRADE SHALL BE UNIFORM AND SMOOTH WITH NO ABRUPT CHANGE OF SURFACE.

GRADING SHALL PROVIDE FOR NATURAL RUNOFF WITHOUT LOW SPOTS. FLOW LINES SHALL BE ACCURATELY SET BY INSTRUMENT AT TWO (2) PERCENT MINIMUM SLOPE.

CONTRACTOR SHALL REMOVE FROM PLANTING AREAS ALL DEBRIS, WEEDS AND ROCK LARGER THAN ONE (1) INCH IN DIAMETER FROM THE TOP SIX (6) INCHES OF SOIL AND DISPOSED OF OFF-SITE.

VI. INSTALLATION

THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL, TREES INSTALLED AND A COVERAGE TEST COMPLETED PRIOR TO ANY CONTAINER OR GROUND COVER MATERIAL INSTALLATION.

EXCAVATION FOR PLANTING SHALL INCLUDE THE STOCKPILING OF TOPSOIL FROM WITHIN AREAS TO BE EXCAVATED FOR TRENCHES TREE HOLES, PLANT PITS AND BEDS. ALL EXCAVATED PLANTING HOLES SHALL HAVE VERTICAL, SCARIFIED SIDES, TWICE (2X) THE SIZE OF THE DIAMETER AND SIX (6) INCHES MINIMUM DEEPER THAN THE ROOTBALL.

EXCESS SOIL GENERATED FROM THE EXCAVATIONS AND NOT USED AS BACKFILL OR IN ESTABLISHING FINAL GRADES SHALL BE REMOVED FROM THE SITE.

INSPECT ROOTBALL AND GENTLY LOOSEN OR UNTANGLE MATTED ROOTS, DO NOT CRACK ROOTBALL. REPLACE ANY PLANTS WITH ROOTS GIRDLING THE ROOTBALL.

THE CROWN AREA OF TREES AND SHRUBS SHALL BE 2" HIGHER AFTER SETTLING, THAN ADJACENT FINISH GRADE.

THE APPROVED BACKFILL FOR PLANT PITS SHALL CONSIST OF THE FOLLOWING MIX. PLANT PITS SHALL BE FILLED TO THE REQUIRED GRADE AND THOROUGHLY SETTLED BY WATER APPLICATION AND TAMPING.

PER CUBIC YARD OF MIX, UNIFORMLY BLENDED
SIX (6) PARTS BY VOLUME ON-SITE SOIL or NON SALINE, NON SODIC, LOW BORON CONTENT SANDY TEXTURED TOP SOIL
FOUR (4) PARTS BY VOLUME NITROGEN STABILIZED ORGANIC AMENDMENT
TWENTY (20) POUNDS "GRO-POWER PLUS"
TWENTY (20) POUNDS AGRICULTURAL GYPSUM

BACKFILL PIT HALFWAY THEN PLACE "GRO-POWER" SEVEN (7) GRAM OR "AGRIFORM" TWENTY ONE (21) GRAM SLOW RELEASE PLANTING TABLETS SPREAD EVENLY AROUND ROOTBALL. THE NUMBER OF TABLETS PER PLANT SHALL BE PER THE MANUFACTURER.

PROVIDE A DEPRESSED WATER BASIN AS WIDE AS THE ROOT BALL FOR EACH PLANT. WATER AGAIN THOROUGHLY.

UNTIE VINES AND REMOVE ALL STAKES AND TRELLISES THEN SECURELY FASTEN AND TRAIN AGAINST WHATEVER STRUCTURE NEXT TO WHICH THEY ARE PLANTED. TREES MUST BE STAKED AND/OR GUYED AT THE TIME OF PLANTING.

LAY SOD WITHIN TWO (2) DAYS OF DELIVERY AND DO NOT STORE IN HOT SUN. SET IN A STAGGERED PATTERN ON PRE-IRRIGATED MOIST GROUND AND SET FIRMLY AGAINST OTHER SOD PIECES. WATER THOROUGHLY AFTER PLANTING.

UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PLANT GROUND COVERS IN STRAIGHT ROWS, EVENLY SPACED IN A TRIANGULAR PATTERN AT THE INTERVALS LISTED IN THE DRAWINGS.

AFTER ALL PLANTING IS COMPLETED, TOP DRESS ALL LANDSCAPED AREAS, EXCLUDING TURF, WITH A 2" LAYER OF SINGLE GRIND SHREDDED BARK MULCH. THIS LAYER IS IN ADDITION TO SOIL AMENDMENT MATERIALS.

UNLESS DIRECTED OTHERWISE BY THE O.A.R., PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES AND SUCKER GROWTH

IX. GUARANTEE

CONTRACTOR SHALL PROVIDE A NINETY (90) DAY GUARANTEE FOR ALL PLANTS EXCLUDING TREES WHICH SHALL BE GUARANTEED FOR ONE (1) FULL YEAR. DURING THE GUARANTEE PERIOD THE CONTRACTOR SHALL REPLACE, IN A TIMELY MANNER, ANY PLANTS THAT ARE UNHEALTHY, MISSING OR DEAD. THIS GUARANTEE SHALL NOT INCLUDE DAMAGE TO GROUND COVER FROM EXCESSIVE RAIN RUN-OFF AND EXTREME WINDS. SUCH "NATURAL" DAMAGE SHALL BE REPAIRED FOR TIME AND MATERIALS.

G E N E R A L N O T E S

A. THE LANDSCAPE ARCHITECT WILL INTERPRET THE MEANING OF ANY PART OF THE PLANS AND SPECIFICATIONS ABOUT WHICH ANY MISUNDERSTANDING MAY ARISE, AND HIS DECISION WILL BE FINAL.

B. THE CONTRACTOR SHALL OBTAIN CLARIFICATION TO QUESTIONS RELATIVE TO THE DRAWINGS BEFORE SUBMITTING A BID.

C. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS.

D. THE CONTRACTOR SHALL CARRY NECESSARY CALIFORNIA STATE CONTRACTORS LICENSE OR CERTIFICATE FOR TYPE OF WORK LISTED, SUCH AS C-27.

E. THE CONTRACTOR SHALL CARRY ALL NECESSARY COMPENSATION AND LIABILITY INSURANCE TO COVER HIS WORKMEN AND WORK TO FULLY PROTECT THE OWNER FROM ANY POSSIBLE SUIT OR LIEN.

F. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR, FAMILIAR WITH THE TYPE OF WORK AND THE CONTRACT DOCUMENTS, ON SITE AT ALL TIMES DURING INSTALLATION OF THE WORK AND PRIMARY MAINTENANCE.

G. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND LICENSES AND ASSURE THAT ALL WORK TO BE PERFORMED MEETS OR EXCEEDS ALL APPLICABLE CODES AND ORDINANCES OF PRIVATE OR GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT.

H. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK AT NO EXPENSE TO THE OWNER. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERAL LINES THROUGH WALLS, UNDER ROADWAYS, DRIVES AND PAVING, ETC.

I. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, OF BRANDS AND TYPES SHOWN AND DESCRIBED IN THESE DRAWINGS.

J. THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING AND STORING ALL EQUIPMENT AND MATERIALS. ALL MATERIALS AND EQUIPMENT THAT IS DAMAGED WILL BE DISCARDED, EVEN IF INSTALLED, AND SHALL BE REPAIRED OR REPLACED AT THE DISCRETION OF THE OWNER'S AUTHORIZED REPRESENTATIVE (O.A.R.) AT NO EXPENSE TO THE OWNER.

K. THE CONTRACTOR SHALL PROTECT ALL PLANTING AREAS FROM EXCESSIVE COMPACTION WHEN TRUCKING MATERIALS AND EQUIPMENT TO AND WITHIN THE SITE.

L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THEFTS OR DAMAGE TO MATERIALS ONCE DELIVERED TO JOB SITE.

M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN SUB-CONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC. SHALL BE IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.

N. ALL PROGRESS INSPECTIONS SHALL BE COMPLETED BEFORE SUCCEEDING WORK IS STARTED. ANY WORK COVERED UP BEFORE REQUIRED INSPECTIONS ARE COMPLETED WILL BE EXPOSED FOR REVIEW AT THE CONTRACTOR'S EXPENSE.

O. CLEAN-UP SHALL BE DONE AS EACH PORTION OF THE WORK PROGRESSES. REFUSE AND EXCESS DIRT SHALL BE REMOVED FROM THE SITE, ALL WALKS AND PAVING SHALL BE BROOMED AND ANY DAMAGE OCCURRING TO THE WORK OF OTHERS SHALL BE REPAIRED TO ORIGINAL CONDITION.

P. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.

Q. THE CONTRACTOR'S WORK SHALL BE FULLY GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTIVE MATERIALS OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED AT NO COST TO THE OWNER.

R. UNLESS NOTED OTHERWISE ALL STRUCTURAL IMPROVEMENTS SHALL BE INSTALLED PRIOR TO IRRIGATION AND PLANTING OPERATIONS.

S. IN THE CASE WHERE EXTRA WORK OR CHANGES WILL RESULT IN ANY INCREASED COSTS OVER THE CONTRACT FEE, THE CONTRACTOR SHALL FIRST RECEIVE THE OWNER'S EXPRESSED WRITTEN APPROVAL FOR SUCH ADDITIONAL FUNDS PRIOR TO PURCHASING MATERIALS OR DOING THE WORK/CHANGES.

DMLA Landscape Architecture

LANDSCAPE DETAILS AND NOTES

PDC CORPORATION
1082 CONCANNON BLVD
LIVERMORE, CA 94550
TEL: (925) 606-5868

KELLER AVENUE
CNU4010
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

at&t
4430 ROSEWOOD DRIVE, BLDG. #3, 2ND FLOOR
PLEASANTON, CA 94588

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/14/13	ISSUED FOR ZD REVIEW	CC	MF	SAS
0	04/24/13	ISSUED FOR ZD REVIEW	CC	MF	SAS

SCALE: AS NOTED | DESIGNED BY: | DRAWN BY:

SHEET TITLE			SCALE	
LANDSCAPE DETAILS AND NOTES			N.T.S.	1
JOB NUMBER	DRAWING NUMBER	SHEET NO.	REV	
25471-630-A1	CNU4010	L-2	1	

VICINITY MAP
PHOTOSIMULATION VIEWPOINTS

at&t

CNU4010
KELLER AVENUE
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

SC WIRELESS ENGINEERING GROUP
5865 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE (760) 795-5200

ATTACHMENT A

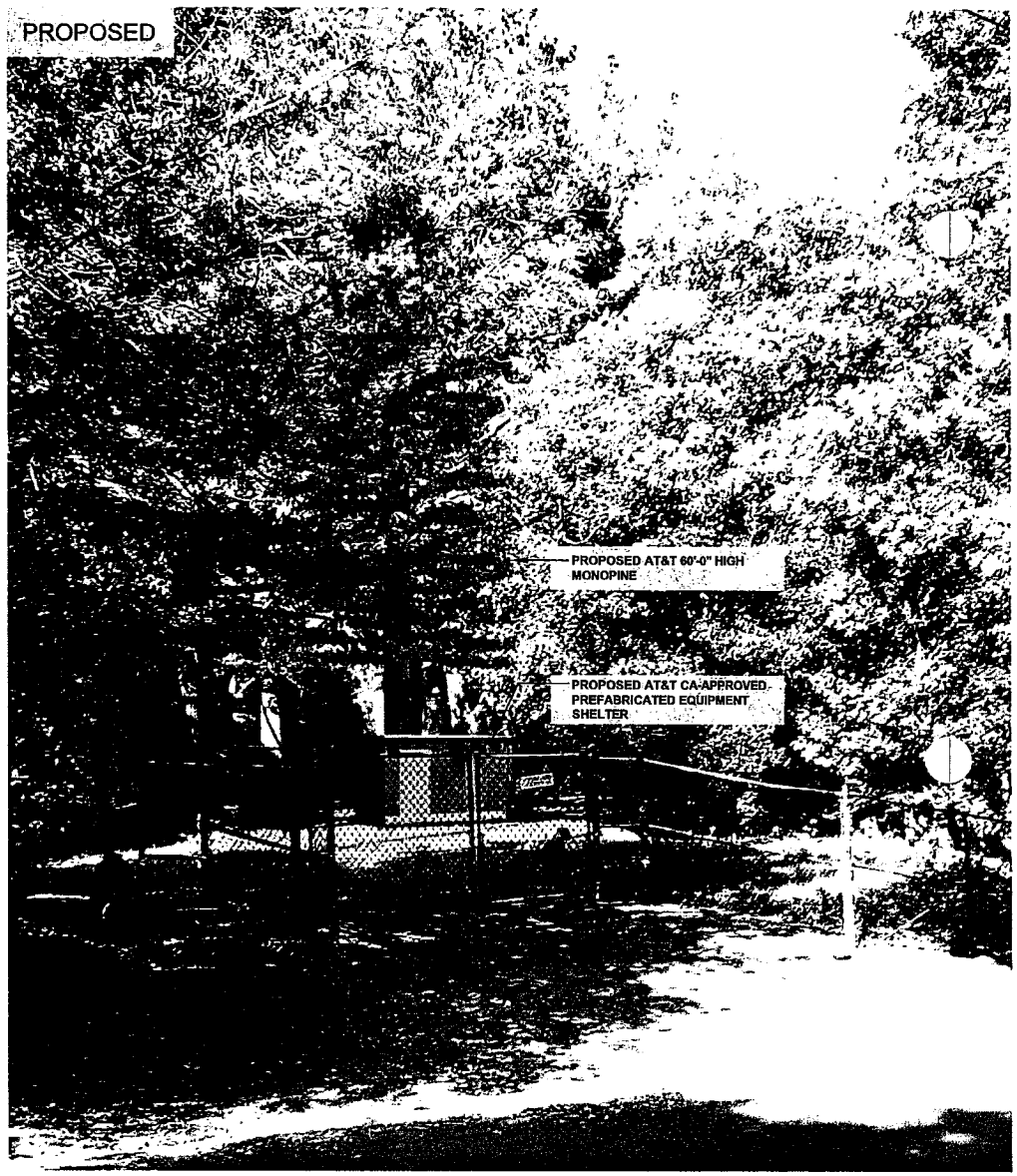
CNU4010
KELLER AVENUE
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

SC WIRELESS ENGINEERING GROUP
5805 AVENIDA ENCINAS
CARLSBAD, CA 92008
OFFICE (760) 795-5200

PHOTOSIMULATION VIEW 1

EXISTING

PROPOSED



PHOTOSIMULATION VIEW 2

at&t

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KELLER AVENUE
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

SC WIRELESS ENGINEERING GROUP
5805 AVENIDA ENCINAS
CARLSBAD, CA 92008
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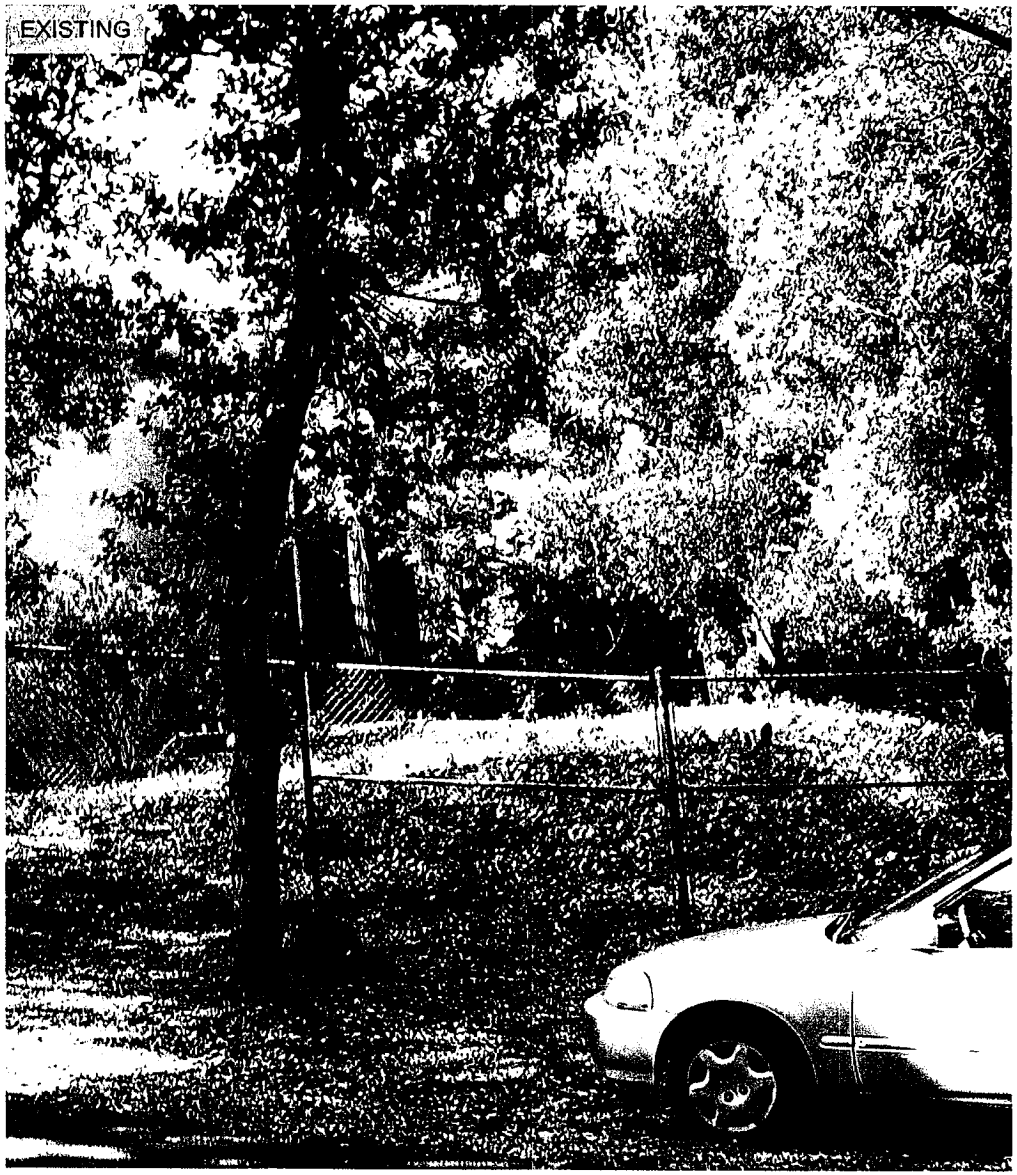
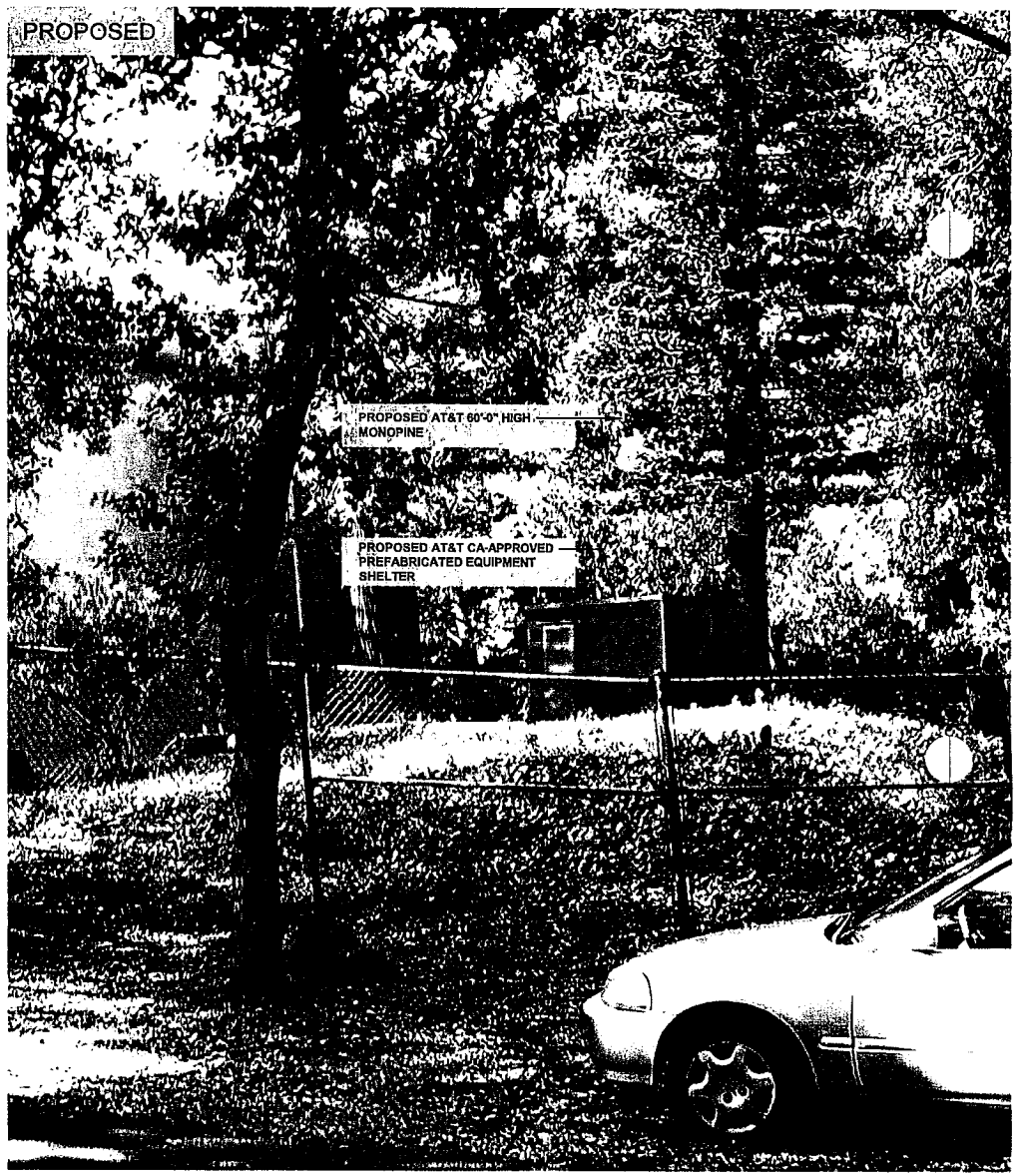
EXISTING



PROPOSED



PHOTOSIMULATION VIEW 3

at&t

CNU4010
KELLER AVENUE
4491 BRIAR CLIFF ROAD
OAKLAND, CA 94605

SC
WIRELESS
ENGINEERING GROUP
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EXISTING

PROPOSED

sitesafe
rf compliance experts

200 North Glebe Road, Suite 1000, Arlington, VA 22203-3728
703.276.1100 • 703.276.1169 fax
info@sitesafe.com • www.sitesafe.com

Bechtel Communication on behalf of AT&T Mobility, LLC
Site ID – CA2921/CNU4010
USID – 133308
Site Name – Keller Avenue
Site Compliance Report

Intersection of Briar Cliff Road & Oak Hil Road
Oakland, CA 94605

Latitude: N37-45-58.63
Longitude: W122-8-23.10
Structure Type: Monopole

Report generated date: April 15, 2013
Report by: Tony DeMattia
Customer Contact: Tom McGuire

AT&T Mobility, LLC Will Be Compliant based on FCC Rules and Regulations.

REGISTERED PROFESSIONAL ENGINEER
DAVID CHARLES COTTON, JR.
NO. 18838
EXP. 06/30/2013
ELECTRICAL
STATE OF CALIFORNIA

David Charles Cotton, Jr.
Registered Professional Engineer (Electrical)
State of California, 18838, Expires 2013-June-30
Date: 2013-April-15

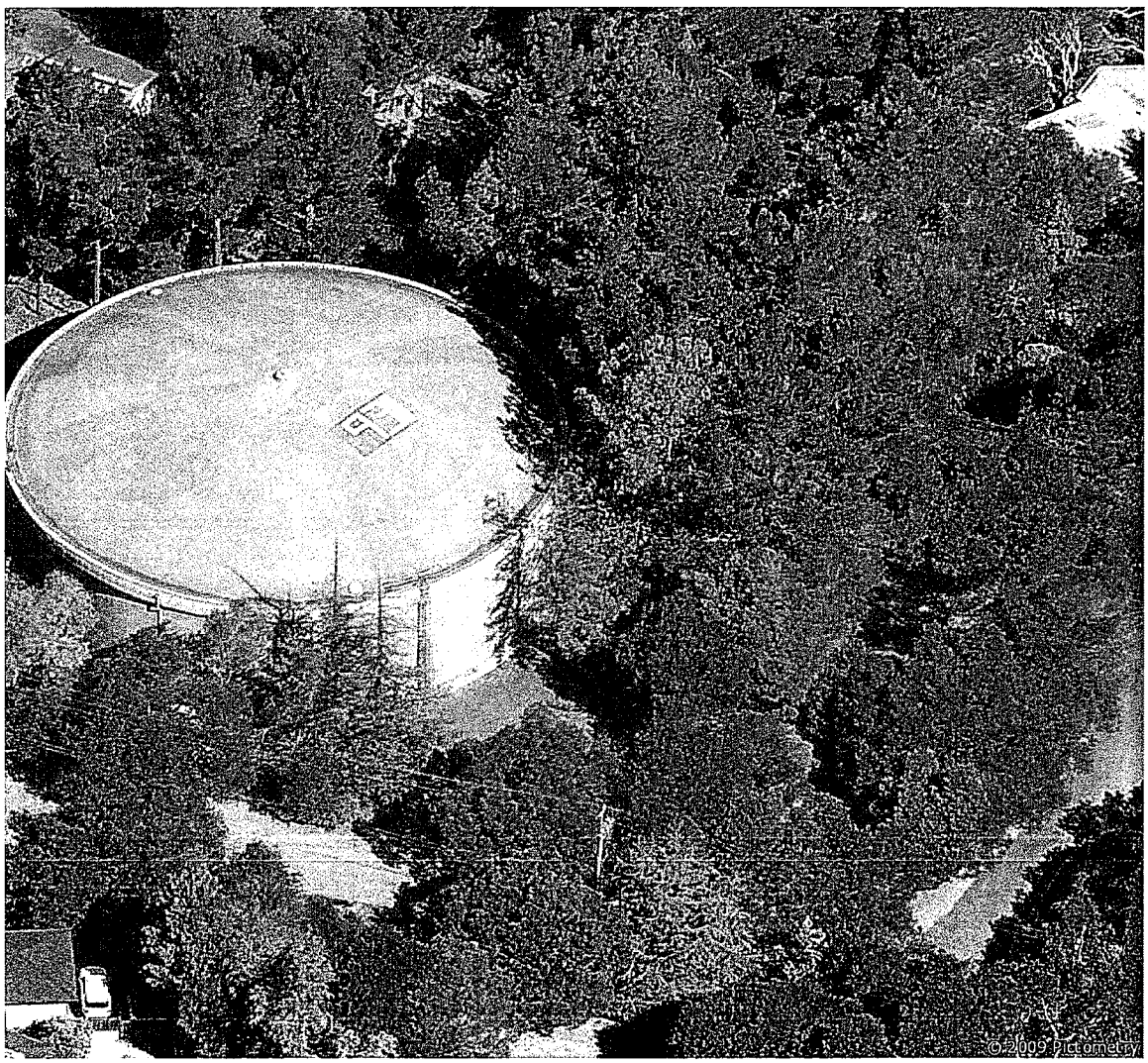
A/E DOCUMENT REVIEW STATUS		
Status Code		
1	◉	Accepted – With minor or no comments, construction may proceed
2	○	Not Accepted – Please resolve comments and resubmit

Acceptance does not constitute approval of design details, calculations, analysis, test methods or materials developed or selected by the subcontractor and does not relieve subcontractor from full compliance obligations.

	ENG	CONST				
Reviewed	JW	N/A				
Status By	jnwong@bechtel.com Digitally signed by jnwong@bechtel.com DN: cn=jnwong@bechtel.com Date: 2013.04.18 11:08:55 -07'00'		Date	4/18/13		

sitesafe
rf compliance experts

Bechtel Communication on behalf of AT&T Mobility, LLC
Keller Avenue - CA2921/CNU4010
Radio Frequency (RF) Site Compliance Report



Intersection of Briar Cliff Road & Oak Hil Road, Oakland, CA 94605

200 N. Glebe Road • Suite 1000 • Arlington, VA 22203-3728
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sitesafe
rf compliance experts

Table of Contents

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1 Executive Summary

Bechtel Communication on behalf of AT&T Mobility, LLC has contracted with Sitesafe, Inc. (Sitesafe), an independent Radio Frequency (RF) regulatory and engineering consulting firm, to determine whether the proposed communications site, CA2921/CNU4010 - Keller Avenue, located at Intersection of Briar Cliff Road & Oak Hil Road, Oakland, CA, is in compliance with Federal Communication Commission (FCC) Rules and Regulations for RF emissions.

This report contains a detailed summary of the RF environment at the site including:

- diagram of the site;
- inventory of the make / model of all antennas
- theoretical MPE based on modeling.

Project Description: This is an application for an unmanned telecommunication facility, consisting of the installation and operation of antennas and associated equipment. AT&T Mobility LLC is proposed in install an indoor equipment cabinets and racks inside one (1) CA approved prefabricated fiberbond equipment shelter on ground level as shown on the accompanying drawings. Total of nine (9) panel antennas are to be installed and mounted on a 60' high monopine. Fifteen (15) Remote Radio Units (RRUS-11) near antennas, three (s) surge protection dome units on the monopine near the antennas. Two GPS antennas to be installed and mounted on equipment shelter roof.

This report addresses exposure to radio frequency electromagnetic fields in accordance with the FCC Rules and Regulations for all individuals, classified in two groups, "Occupational or Controlled" and "General Public or Uncontrolled." This **site will be compliant** with the FCC rules and regulations, as described in OET Bulletin 65.

This document and the conclusions herein are based on the information provided by AT&T Mobility, LLC.

If you have any questions regarding RF safety and regulatory compliance, please do not hesitate to contact Sitesafe's Customer Support Department at (703) 276-1100.

The following information was used in the creation of this report:

RFDS: 25736-635-AA-CNU4010 RF V11

CD: 25736-635-AA-CNU4010-Z01 Rev-B

ERP: Sitesafe assumed a 60 watt transmit power output per LTE and AWS carrier and a 40 watt transit power output per UMTS carrier.

2 Regulatory Basis

2.1 FCC Rules and Regulations

In 1996, the Federal Communication Commission (FCC) adopted regulations for the evaluating of the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 ("OET Bulletin 65"), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per their congressional mandate.

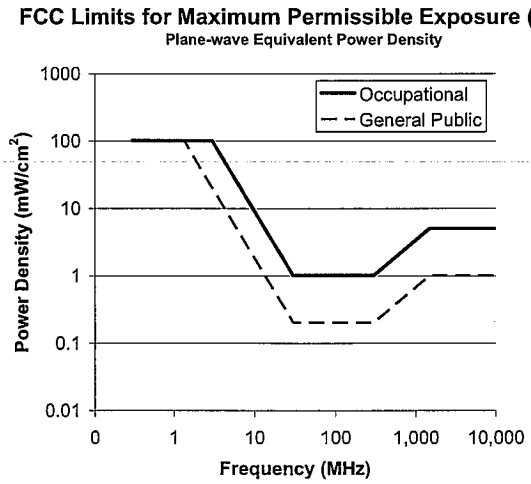
FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled environment" and General Public or "Uncontrolled environment". The General Public limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to *accessible* areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:



Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

2.2 OSHA Statement

The General Duty clause of the OSHA Act (Section 5) outlines the occupational safety and health responsibilities of the employer and employee. The General Duty clause in Section 5 states:

(a) Each employer –

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA has defined Radiofrequency and Microwave Radiation safety standards for workers who may enter hazardous RF areas. Regulation Standards 29 CFR § 1910.147 identify a generic Lock Out Tag Out procedure aimed to control the unexpected energization or start up of machines when maintenance or service is being performed.

3 Site Compliance

3.1 Site Compliance Statement

Upon evaluation of the cumulative RF emission levels from all operators at this site, Sitesafe has determined that:

This **site will be compliant** with the FCC rules and regulations, as described in OET Bulletin 65.

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and the level of restricted access to the antennas at the site. Any deviation from the AT&T Mobility, LLC's proposed deployment plan could result in the site being rendered non-compliant.

3.2 Actions for Site Compliance

Based on common industry practice and our understanding of FCC and OSHA requirements, this section provides a statement of recommendations for site compliance. RF alert signage recommendations have been proposed based on theoretical analysis of MPE levels. Barriers can consist of locked doors, fencing, railing, rope, chain, paint striping or tape, combined with RF alert signage.

This site will be compliant with the FCC rules and regulations.

Sitesafe found one or more issues that led to our determination. The site will be made compliant if the following changes are implemented:

- Posting RF signs that a person could read and understand the signs prior to accessing the site;

Monopine Base Access Location

Information Sign 1 required, in English.
Information Sign 1 required, in Spanish.
Yellow caution sign required.

4 Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Maintain a 3 foot clearance from all antennas: There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

Site RF Emissions Diagram: Section 5 of this report contains an RF Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst case scenario assuming a duty cycle of 100% for each transmitting antenna at full power. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

5 Analysis

5.1 RF Emissions Diagram

The RF diagram(s) below display theoretical spatially averaged percentage of the Maximum Permissible Exposure for all systems at the site unless otherwise noted. These diagrams use modeling as proscribed in OET Bulletin 65 and assumptions detailed in Appendix B.

a) Composite Exposure Levels
- Gray represents areas predicted to be at 5% of the MPE limits, or below.
- Green represents areas predicted to be between 5% and 100% of the MPE limits.
- Blue represents areas predicted to be between 100% and 500% of the MPE limits.
- Yellow represents areas predicted to be between 500% and 5000% of the MPE limits.
- Red areas indicated predicted levels greater than 5000% of the MPE limits.

b) AT&T Mobility 5% Exposure Levels:
- Areas indicated as Green are below 5% of the MPE limits.
- Purple represents areas predicted to be greater than 5% of the MPE limits.

The theoretical analysis identified the maximum predicted MPE levels to be:

Maximum Theoretical General Public or Uncontrolled MPE level:	55.0%
Maximum Theoretical Occupational or Controlled MPE Level:	11.0%
AT&T Maximum Theoretical General Public or Uncontrolled MPE level:	55.0%
AT&T Maximum Theoretical Occupational or Controlled MPE level:	11.0%

General Population diagrams are specified when an area is accessible to the public; i.e. personnel that do not meet Occupational or RF Safety trained criteria, could gain access.

If trained occupational personnel require access to areas that are delineated as **Blue** or above 100% of the limit, Sitesafe recommends that they utilize the proper personal protection equipment (RF monitors), coordinate with the carriers to reduce or shutdown power, or make real-time power density measurements with the appropriate power density meter to determine real-time MPE levels. This will allow the personnel to ensure that their work area is within exposure limits.

The key at the bottom also indicates the level or height of the modeling with respect to the main level. The origin is typically referenced to the main rooftop level, or ground level for a structure without access to the antenna level. For example:

Average from 0 feet above to 6 feet above origin

and

Average from 20 feet above to 26 feet above origin

The first indicates modeling at the main rooftop (or ground) level averaged over 6 feet. The second indicates modeling at a higher level (possibly a penthouse level) of 20 feet averaged over 6 feet.

Abbreviations used in the RF Emissions Diagrams

PH=##'	Penthouse at ## feet above main roof

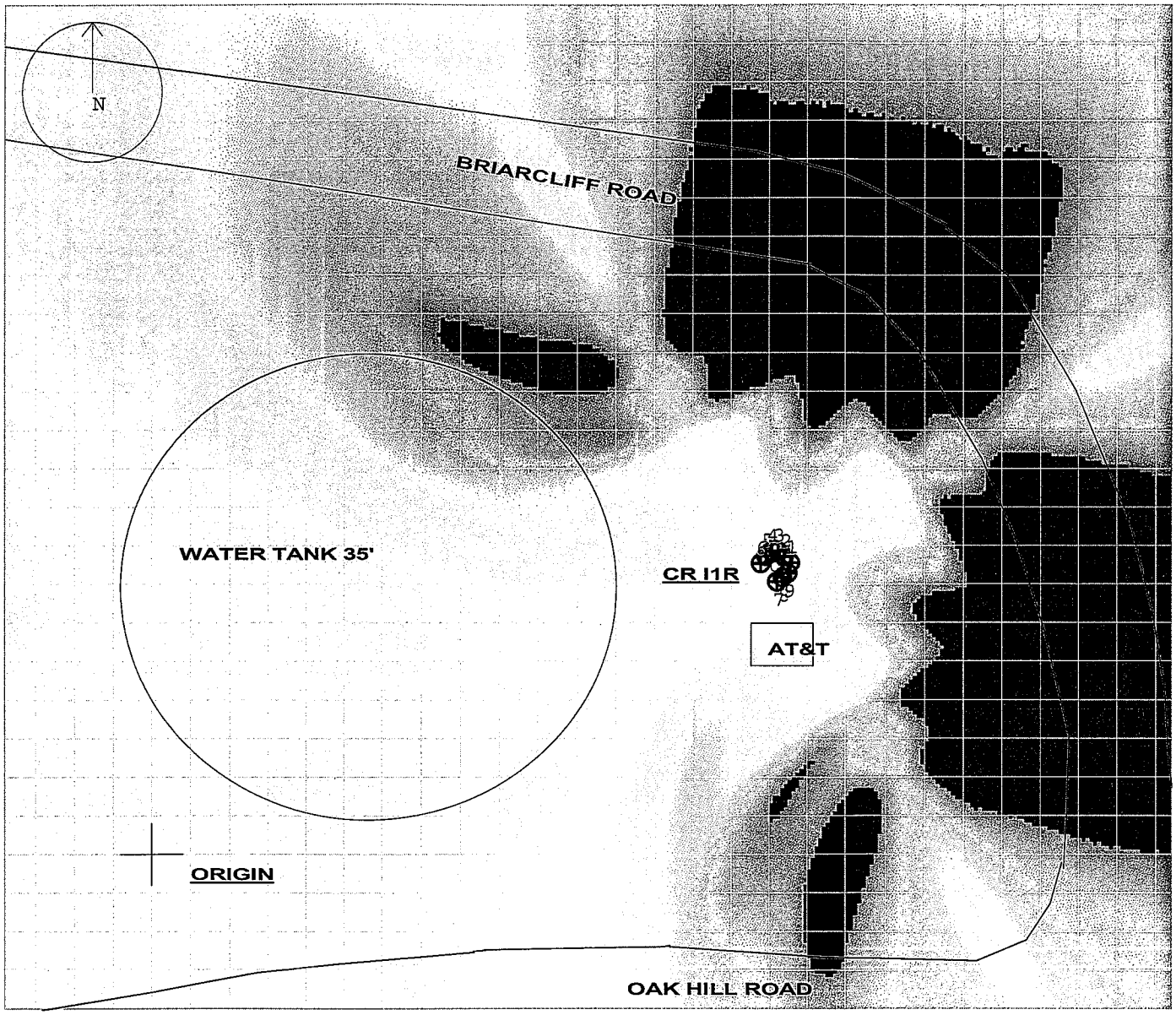
Additional Information in the RF Emissions Diagrams Key

The RF emissions diagram provides indications of RF signage, barriers and locked doors. The table below lists the abbreviations used to indicate locked doors, signs and barriers:

Table 1: RF Signage and Barrier Key

RF Signage			Barriers		
Type	**Existing Location**	**Recommended Location**	**Type**	**Existing Location**	**Recommended Location**
Notice	**NE**	**NR**	Locked Door	**LE**	**LR**
Caution	**CE**	**CR**	Fencing	**RE**	**RR**
Warning	**WE**	**WR**	Rope Chain		
Info Sign 1	**I1E**	**I1R**	Paint Stripes		
Info Sign 2	**I2E**	**I2R**	Tape		
Info Sign 3	**I3E**	**I3R**			
Info Sign 4	**I4E**	**I4R**			
NOC Information	**INOCE**	**INOCR**			
10 Step Guideline	**10SE**	**10SR**			

RF Emissions Diagram for: Keller Avenue
Ground Level



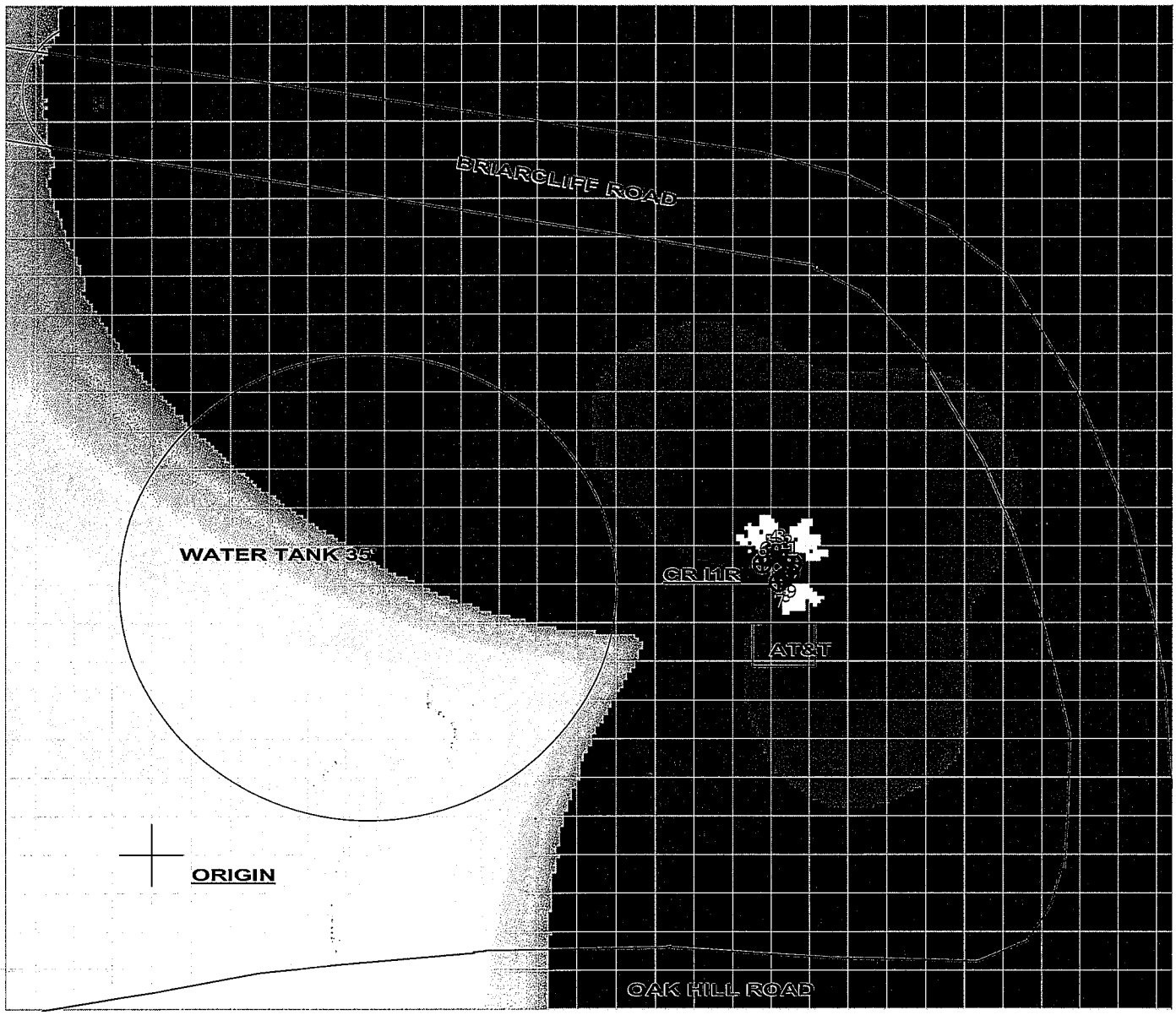
% of FCC Public Exposure Limit
Average from 0 feet above to 6 feet above origin

- 5000 <= X
- 500 <= X < 5000
- 100 <= X < 500
- 5 <= X < 100
- X <= 5

sitesafe
www.sitesafe.com
Sitesafe ID# 101881
Site Name: Keller Avenue

Feet
20 0 20 40
Grid Size is 10.0

RF Emissions Diagram for: Keller Avenue
Water Tank Level = 35'



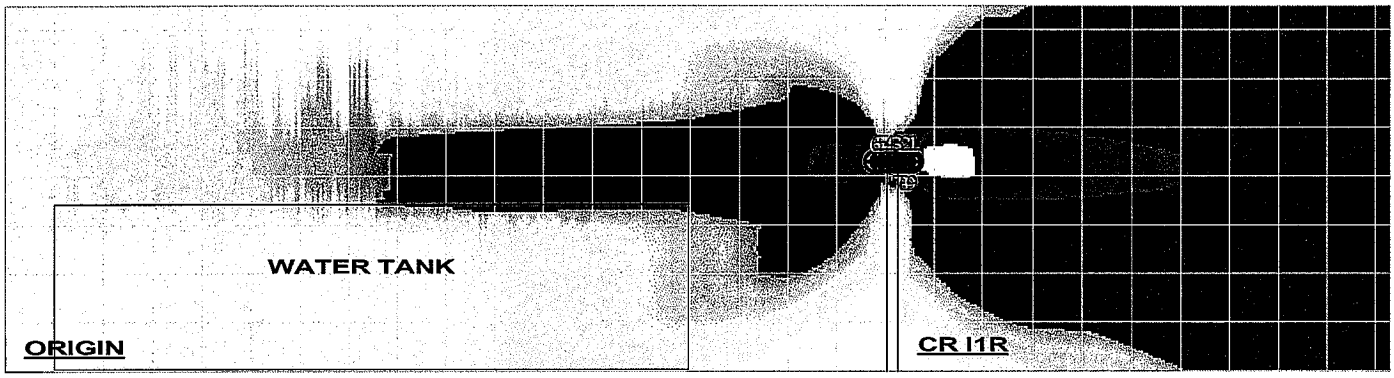
% of FCC Public Exposure Limit
Average from 35 feet above to 41 feet above origin

- 5000 <= X
- 500 <= X < 5000
- 100 <= X < 500
- 5 <= X < 100
- X <= 5

sitesafe
www.sitesafe.com
Sitesafe ID# 101881
Site Name: Keller Avenue

Feet
20 0 20 40
Grid Size is 10.0

RF Emissions Diagram for: Keller Avenue
Side Elevation



% of FCC Public Exposure Limit
Individual Points

- 5000 <= X
- 500 <= X < 5000
- 100 <= X < 500
- 5 <= X < 100
- X <= 5

sitesafe
www.sitesafe.com
Sitesafe ID# 101881
Site Name: Keller Avenue

Feet
20 0 20 40
Grid Size is 10.0

6 Antenna Inventory

The Antenna Inventory shows all transmitting antennas at the site. This inventory was provided by the customer, and was utilized by Sitesafe to perform theoretical modeling of RF emissions. The inventory coincides with the site diagrams in this report, identifying each antenna's location at CA2921/CNU4010 - Keller Avenue. The antenna information collected includes the following information:

- Licensee or wireless operator name
- Frequency or frequency band
- Transmitter power – Effective Radiated Power ("ERP"), or Equivalent Isotropic Radiated Power ("EIRP") in Watts
- Antenna manufacturer make, model, and gain

For other carriers at this site, the use of "Generic" as an antenna model, or "Unknown" for an operator means the information with regard to carrier, their FCC license and/or antenna information was not available nor could it be secured while on site. Equipment, antenna models and nominal transmit power were used for modeling, based on past experience with radio service providers.

The following antenna inventory, on this and the following page, were provided by the customer and were utilized to create the site model diagrams:

Table 3: Antenna Inventory

Ant #	Operated By	TX Freq (MHz)	ERP (Watts)	Antenna Gain (dBd)	Az (Deg)	Antenna Model	Ant Type	Len (ft)	Horizontal Half Power Beamwidth (Deg)	Location		
										X	Y	Z
1	AT&T Mobility LLC	737 (LTE)	1159	12.86	60	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	166'	76'	43'
1	AT&T Mobility LLC	2100 (AWS)	2209	15.66	60	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	166'	76'	43'
2	AT&T Mobility LLC	1900 (UMTS 5C)	1615	16.06	60	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	164'	77'	43'
3	AT&T Mobility LLC	850 (UMTS 1C 4C)	1618	13.06	60	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	162'	79'	43'
3	AT&T Mobility LLC	1900 (UMTS 2C 3C)	3229	16.06	60	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	162'	79'	43'
4	AT&T Mobility LLC	737 (LTE)	1159	12.86	330	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	161'	79'	43'
4	AT&T Mobility LLC	2100 (AWS)	2209	15.66	330	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	161'	79'	43'
5	AT&T Mobility LLC	1900 (UMTS 5C)	1615	16.06	330	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	159'	77'	43'
6	AT&T Mobility LLC	850 (UMTS 1C 4C)	1618	13.06	330	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	158'	75'	43'
6	AT&T Mobility LLC	1900 (UMTS 2C 3C)	3229	16.06	330	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	158'	75'	43'
7	AT&T Mobility LLC	737 (LTE)	1159	12.86	150	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	162'	71'	43'
7	AT&T Mobility LLC	2100 (AWS)	2209	15.66	150	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	162'	71'	43'
8	AT&T Mobility LLC	1900 (UMTS 5C)	1615	16.06	150	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	163'	72'	43'
9	AT&T Mobility LLC	850 (UMTS 1C 4C)	1618	13.06	150	ANDREW SBNH-1D4545A-04ET (Proposed)	Panel	5	65	165'	73'	43'
9	AT&T Mobility LLC	1900 (UMTS 2C 3C)	3229	16.06	150	ANDREW SBNH-1D4545A-02ET (Proposed)	Panel	5	65	165'	73'	43'

NOTE: X, Y and Z indicate relative position of the antenna to the origin location on the site, displayed in the model results diagram. Specifically, the Z reference indicates antenna height above the main site level unless otherwise indicated. ERP values provided by the client and used in the modeling may be greater than are currently deployed. For other carriers at this site the use of "Generic" as an antenna model or "Unknown" for a wireless operator means the information with regard to carrier, their FCC license and/or antenna information was not available nor could it be secured while on site. Equipment, antenna models and nominal transmit power were used for modeling, based on past experience with radio service providers.

7 Engineer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms that:

I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I am an employee of Sitesafe, Inc., in Arlington, Virginia, at which place the staff and I provide RF compliance services to clients in the wireless communications industry; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio-frequency Radiation; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Tony DeMattia.

April 15, 2013

Appendix A – Statement of Limiting Conditions

Sitesafe will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. Sitesafe cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e., mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by AT&T Mobility, LLC, the site manager, or their affiliates, subcontractors or assigns.

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the survey of the subject property or that Sitesafe became aware of during the normal research involved in performing this survey. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by Sitesafe, the physical data will be used.

Appendix B – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has further assumed a 100% duty cycle and maximum radiated power.

The site has been modeled with these assumptions to show the maximum RF energy density. Sitesafe believes this to be a *worst-case* analysis, based on best available data. Areas modeled to predict emissions greater than 100% of the applicable MPE level may not actually occur, but are shown as a *worst-case* prediction that could be realized real time. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Thus, at any time, if power density measurements were made, we believe the real-time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modeling in this way, Sitesafe has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Unknown" for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. If more specific information can be obtained for the unknown measurement criteria, Sitesafe recommends remodeling of the site utilizing the more complete and accurate data. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, Sitesafe uses the closest frequency in the antenna's range that corresponds to the highest Maximum Permissible Exposure (MPE), resulting in a conservative analysis.

Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.

Gain (of an antenna) – The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from an isotropic radiator. Gain is a measure of the relative efficiency of a directional antennas as compared to an omni directional antenna.

General Population/Uncontrolled Environment – Defined by the FCC, as an area where RFR exposure may occur to persons who are **unaware** of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.

Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are **aware** of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC's Office of Engineering and Technology to determine the impact of Radio Frequency radiation on Humans. The guideline was published in August 1997.

***OSHA* (Occupational Safety and Health Administration)** – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA's role is to promote the safety and health of America's working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency Radiation – Electromagnetic waves that are propagated from antennas through space.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

The FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Specific regulations regarding this topic are listed in Part 1, Subpart I, of Title 47 in the Code of Federal Regulations. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC and OSHA Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations. Individual licensees that contribute less than 5% MPE to any total area out of compliance are not responsible for corrective actions.

OSHA has adopted and enforces the FCC's exposure guidelines. A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- are exposed to RF energy as a consequence of their employment;
- have been made aware of the possibility of exposure; and
- can exercise control over their exposure.

OSHA guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

All AT&T Mobility, LLC employees who require access to this site must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

Appendix D – General Safety Recommendations

The following are *general recommendations* appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

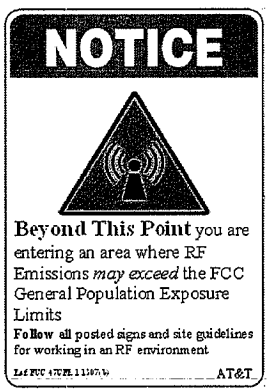
1. All individuals needing access to the main site (or the area indicated to be in excess of General Public MPE) should wear a personal RF Exposure monitor, successfully complete proper RF Safety Awareness training, and have and be trained in the use of appropriate personal protective equipment.

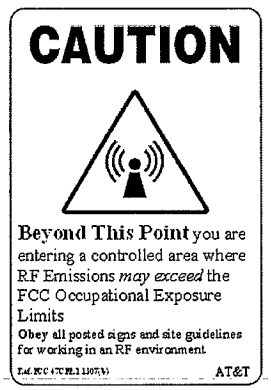
2. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

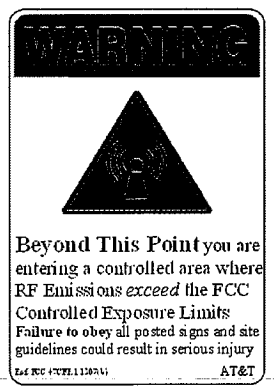
3. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- adding new antennas that may have been located on the site
- removing of any existing antennas
- changes in the radiating power or number of RF emitters

4. Post the appropriate **NOTICE**, **CAUTION**, or **WARNING** sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in Appendix B, to inform <u>everyone</u> who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.







5. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

6. For a General Public environment the four color levels identified in this analysis can be interpreted in the following manner:

a) Composite Exposure Levels
- Areas indicated as Green are below 100% of the MPE limits or below.
- Blue represents areas predicted to be between 100% and 500% of the MPE limits.

- Yellow represents areas predicted to be between 500% and 5000% of the MPE limits.
- Red areas indicated predicted levels greater than 5000% of the MPE limits.

b) AT&T Mobility 5% Exposure Levels:
- Areas indicated as Green are below 5% of the MPE limits or below.
- Purple represents areas predicted to be greater than 5% of the MPE limits.

7. Use of a Personal Protective Monitor: When working around antennas, Sitesafe strong recommends the use of a Personal Protective Monitor (PPM). Wearing a PPM will properly forewarn the individual prior to entering an RF exposure area.

Keep a copy of this report available for all persons who must access the site. They should read this report and be aware of the potential hazards with regards to RF and MPE limits.

Additional Information

Additional RF information is available by visiting both www.Sitesafe.com and www.fcc.gov/oet/rfsafety. OSHA has additional information available at: http://www.osha-slc.gov/SLTC/radiofrequencyradiation.

ATTACHMENT C

Alternative Site Analysis

(City of Oakland Code 17.128.110)

4491 Briar Cliff Rd, City of Oakland

Pursuant to 17.128.110, Applicant is required to respond to the following:

(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 sites in each preference order exist, the three such closest to the proposed location shall be required.

A. Co-located on an existing structure or facility with existing wireless antennas.

B. City owned properties or other public or quasi-public facilities.

C. Existing commercial or industrial structures in non-residential zones (excluding all HBX zones).

Applicant Response:

A. **There are no known collocatable structures within 1000 feet of the proposed facility. The closest monopole is located over 3,500 feet. It is located at 8800 Fontaine St, Oakland, CA 94605. The height of the monopole is 25 feet. The proposed site requires at a minimum 45 feet in height at the elevation of 564 feet in order to meet the coverage objectives.**
B. **The proposed site is located on Quasi-Public Facility property as it is owned by East Bay Municipal Utility District. The current use is for a water tank.**
C. **The surrounding 1000' from the proposed site is residentially zoned.**

(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).

Applicant Response:

There are no sites identified under (A) and (C) above available. The proposed site is on *preferred* (B) property as it is owned by East Bay Municipal Utility District, being used for a water tank. Other sites were evaluated. See the attached:

///

///

[redacted]

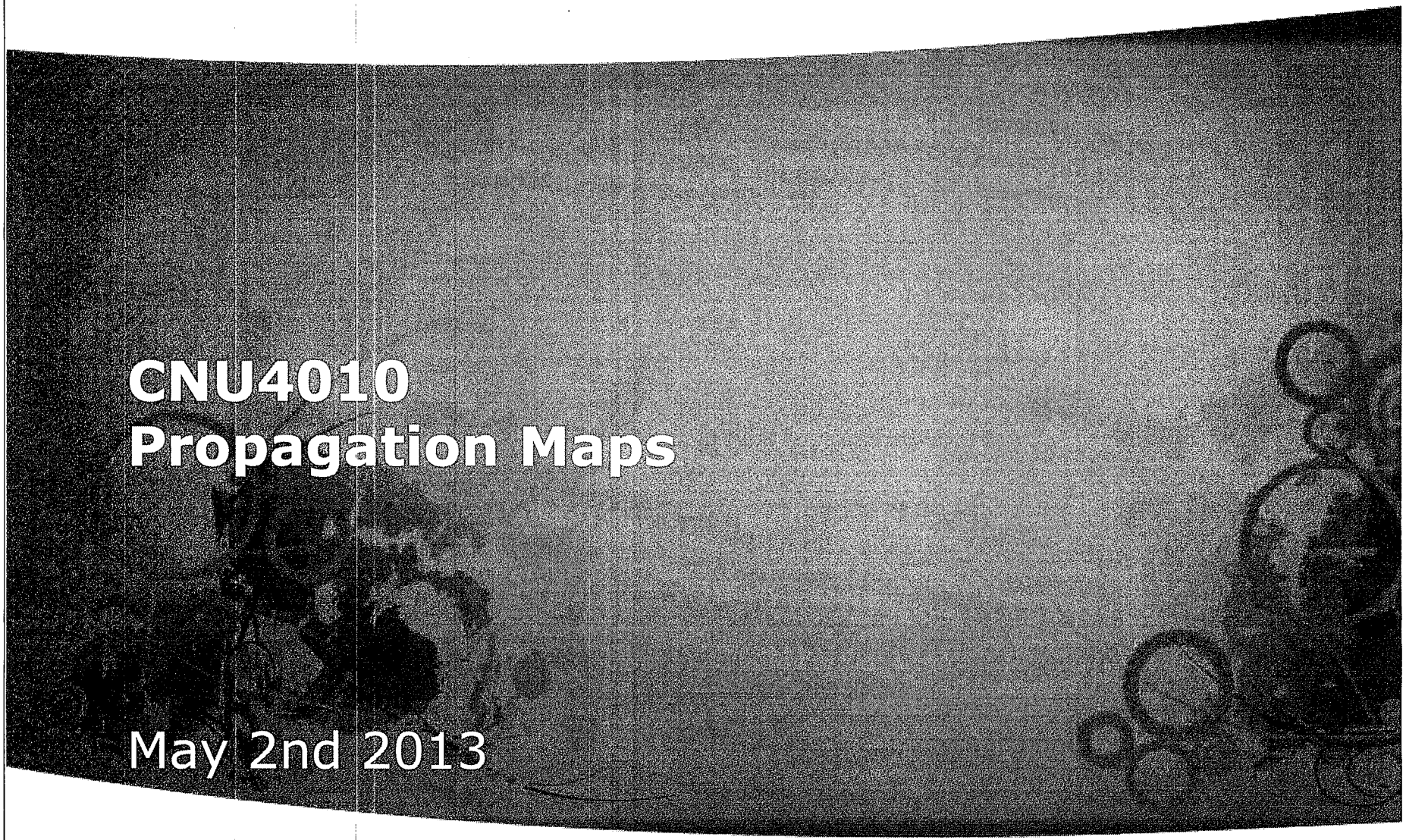
Alternative Site Analysis for 4491 Briar Cliff Dr., City of Oakand continued

1. Sequoyah Community Church
a. Address: 4292 Keller Ave, Oakland CA 94605
b. Structure Type: existing Bldg
c. Available ACL height: 38'
Outcome: This site was rejected because it did not meet the coverage objective.

2. Sequoyah Country Club
a. Address: 4550 Heafey Rd, Oakland CA 94605
b. Structure Type: New Build
c. Required ACL height: 57'
Outcome: The height limit is 45', even with a CW test conducted at a 57' ACL height at the northern most corner of the golf, the location only meets ~60% of the RF Coverage objective.

Conclusion

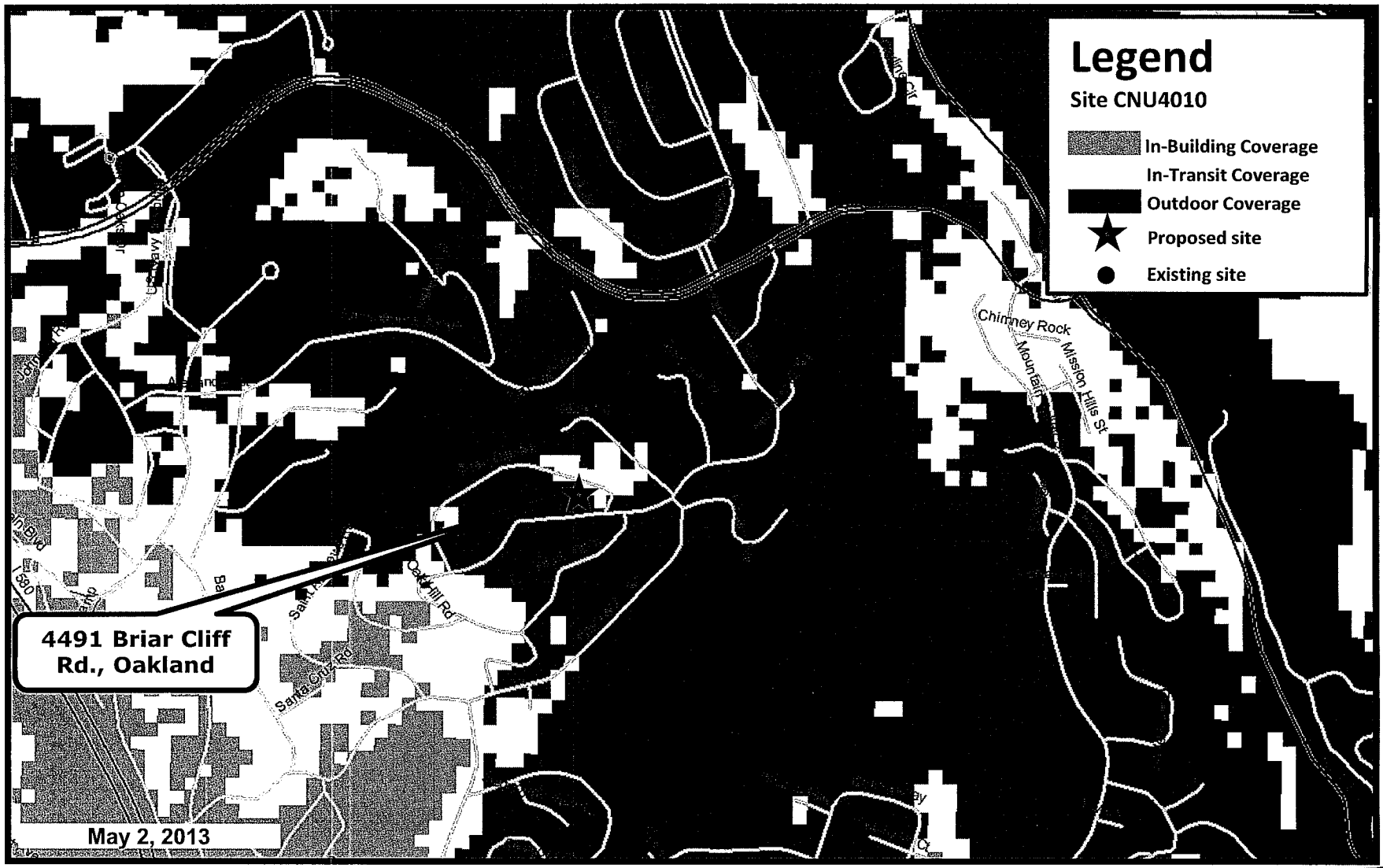
This site was chosen for multiple reasons. The primary reason is that it meets the coverage objectives as exemplified in the Propagation Maps. Equally as important, it meets the design Criteria under 17.135. The monopole design itself is a proposed pine tree design, buried within existing, taller trees. The location and design will decrease the visual impact of the facility. Collocation on the water tank is prohibited by EBMUD. The equipment will be contained in a California approved shelter and is compatible with the water tank and supporting surrounding structure. The shelter will regularly be maintained. The EBMUD property is always locked, to ensure public safety.



CNU4010
Propagation Maps

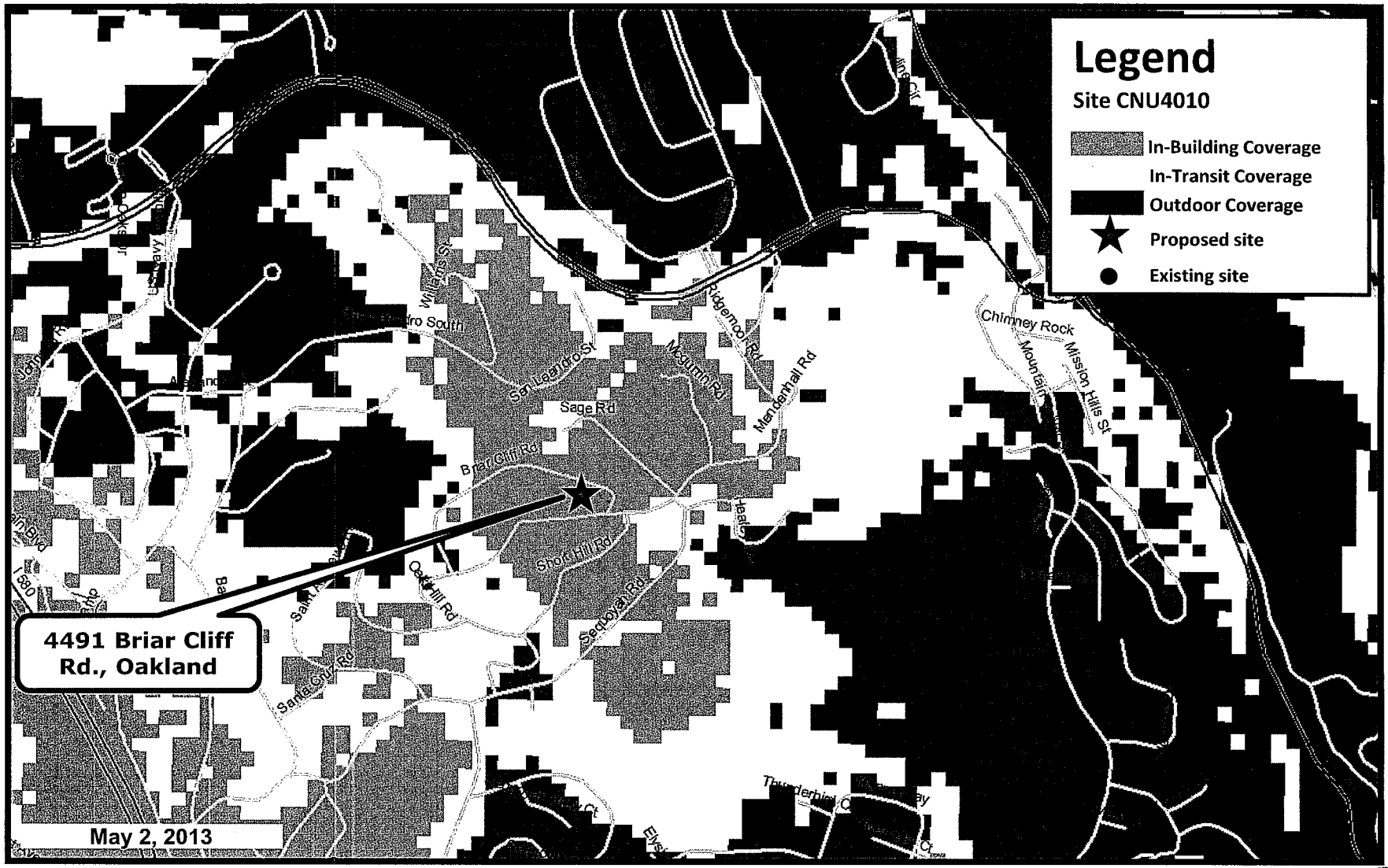
May 2nd 2013

Existing coverage



at&t

Proposed coverage



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CITY OF OAKLAND

Barriers to Economic Development and Business Retention in Oakland

1. An extremely substandard public infrastructure

2. Abandoned rail lines in the middle of the streets (with large impassable potholes)

3. Excessive Crime of all types, need for improved means of response, communication, reporting and prosecution.

4. Excessive amounts of illegal dumping

5. Massive amounts of graffiti on public and private property

6. Weeds and debris on public and private property

7. Homeless encampments

8. Excessive blight of all types, need improved means of response, communication, reporting and prosecution

9. Lack of immediate removal of hazardous material on public streets and sidewalks causing environmental damage.

West Oakland Business Alert Mission Statement

The mission of West Oakland Business Alert group is to encourage the retention, attraction and expansion of businesses in the area by helping companies address the issues of safety and security.

The Business Alert Committee is committed to creating safer neighborhoods for businesses and to improve the image of our commercial corridors. The main goal is to create a better environment for area residents and to help retain your business as well as to attract new businesses to the area.

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The mission of West Oakland Business Alert group is to encourage the retention, attraction and expansion of businesses in the area by helping companies address the issues of safety and security.

The Business Alert Committee is committed to creating safer neighborhoods for businesses and to improve the image of our commercial corridors. The main goal is to create a better environment for area residents and to help retain your business as well as to attract new businesses to the area.

west oakland works

CITY OF OAKLAND

Barriers to Economic Development and Business Retention in Oakland

1. An extremely substandard public infrastructure

2. Abandoned rail lines in the middle of the streets (with large impassable potholes)

3. Excessive Crime of all types, need for improved means of response, communication, reporting and prosecution.

4. Excessive amounts of illegal dumping

5. Massive amounts of graffiti on public and private property

6. Weeds and debris on public and private property

7. Homeless encampments

8. Excessive blight of all types, need improved means of response, communication, reporting and prosecution

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