

Case File Number: PLN15180

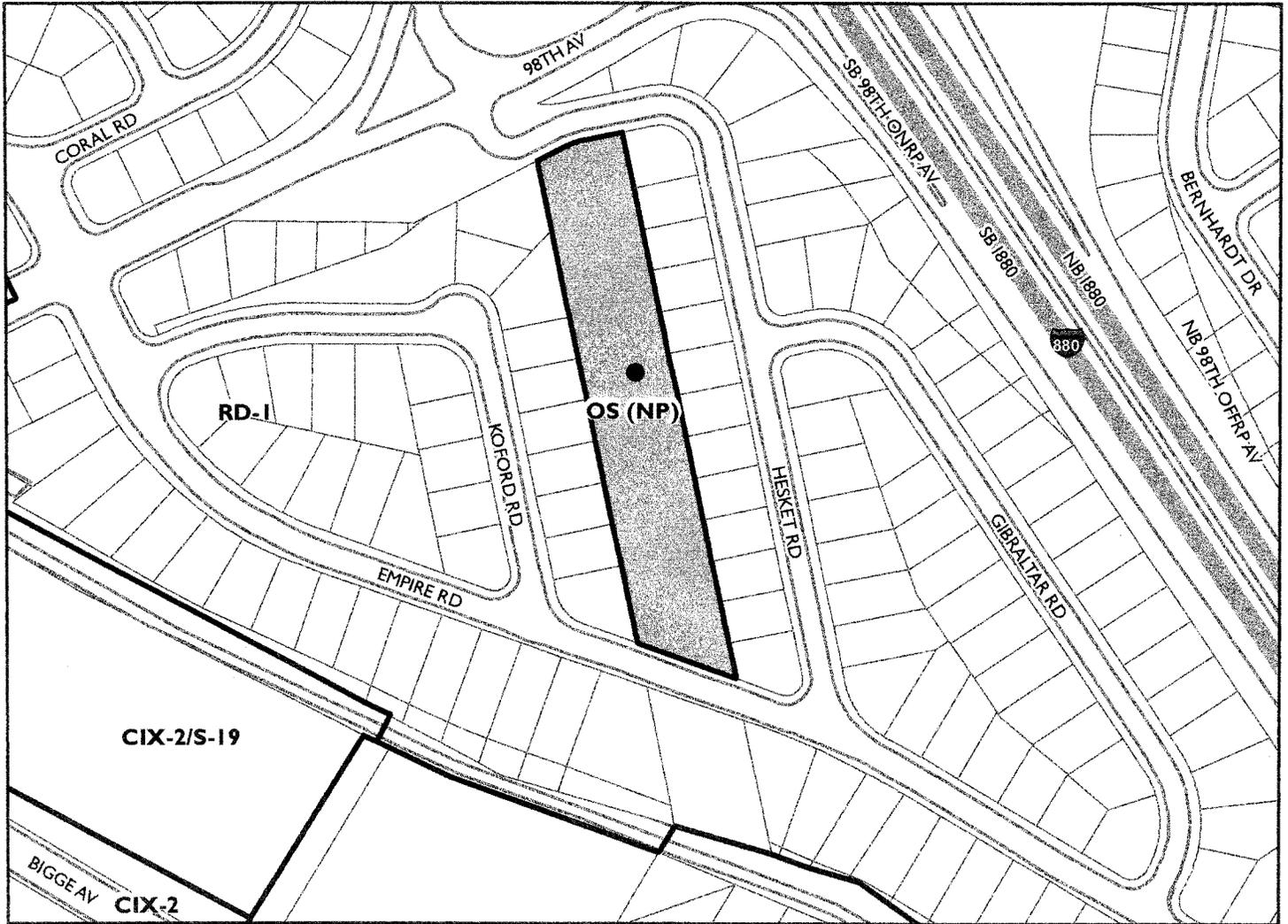
December 16, 2015

Location:	Columbian Gardens Park, Empire Road; adjacent to 9902 Empire Road (See map on reverse)
Assessors Parcel Numbers:	(045-5322-030-00)
Proposal:	The installation of a 10 foot extension to an existing 64.3 foot PG&E tower to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E.
Applicant:	Complete Wireless for Verizon Wireless
Contact Person/	Maria Kim
Phone Number:	(916)247-6087
Owner:	Pacific Gas & Electric (PG&E)
Case File Number:	PLN15180
Planning Permits Required:	Regular Design Review for the installation of a 10 foot extension to an existing 64.3 foot PG&E tower to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground. Major Conditional Use Permit for a Mini telecommunication facility within 100 feet of a residential zone.
General Plan:	Detached Unit Residential
Zoning:	OS- NP Open Space (Neighborhood Park)
Environmental	Exempt, Section 15301 of the State CEQA Guidelines; minor
Determination:	additions and alterations of existing facilities. 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:	No Historic Record
Service Delivery District:	4
City Council District:	7
Date Filed:	3/26/15
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 the installation of a 10 foot extension to an existing 64.3 foot PG&E tower (74.3 foot new total height) to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E. Given the type of structure, this would be considered a "Mini" Telecommunications Facility. The site is located within an open space area, on a Pacific Gas and Electric (PG&E) site that is a portion of Columbian Gardens Park with

CITY OF OAKLAND PLANNING COMMISSION



0 125 250 500 750 1,000 Feet



Case File: PLN15080

Applicant: Complete Wireless Consulting for Verizon Wireless

Address: Columbian Gardens Park, Empire Road (APN: 045-5322-030-00)

Zone: OS-NP

power lines overhead. The site is located in the Open Space – Neighborhood Park Zone. The General Plan designation for the site is Detached Unit Residential.

On November 18, 2015 the project went before the Oakland Parks and Recreation Advisory Commission (PRAC). At that meeting PRAC voted unanimously, 6-0 to recommend approval of the project to the Planning Commission (**See Attachment D**). With the recommendation of approval PRAC also requested three conditions to be considered for the project.

1. All on-site graffiti is removed within 72 hours. (Please see condition of approval #14 below)
2. That the Planning Commission request site improvements to the park of the applicant, Verizon Wireless. These improvements include but are not limited to, new swing-sets, play structures or other park related equipment that neighborhood residents can enjoy while visiting the park.
3. That a greater community outreach be completed by the applicant to the surrounding neighbors in the form of a community meeting in close proximity to the site.

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 (Verizon Wireless) is proposing the installation of a 10 foot extension to an existing 64.3 foot PG&E tower (74.3 foot new total height) to create a Mini-Telecommunications Facility with six (6) antennas. The equipment shelter is to contain the equipment cabinets on the ground below the existing PG&E lattice tower within a fenced and locked area. All proposed antennas and associated equipment will not be accessible to the public and the entire site is fenced and locked.

(See Attachment A)

PROPERTY DESCRIPTION

The subject property is a large 71,315 square foot portion of Columbian Gardens Park owned by PG&E, with frontage on Empire Road and the 98th Avenue South 880 on ramp. The site is adjacent to 9902 Empire Road. The subject property has a large open neighborhood park with playground equipment near Empire Road and large overhead power lines above.

GENERAL PLAN ANALYSIS

The subject property is located within the Detached Unit Residential General Plan designation. The Detached Unit Residential Use Classification is intended "to create, maintain, and enhance residential areas characterized by detached, single unit structures. The proposed unmanned wireless telecommunication facility with new antennas attached to an existing PG&E tower with an existing park and adjacent to a major highway will not adversely affect and detract from the civic, commercial or residential characteristics of the area, because the antennas will be mounted 64-74 feet above ground with the equipment area only occupying 646 square feet below the existing power lines. Therefore, the proposed unmanned wireless telecommunication facility will not adversely affect or detract from the open space characteristics of the area while providing and preserving a convenient and functional working and living environment.

ZONING ANALYSIS

The subject property is located in the OS –NP Open Space Neighborhood Park Zone. The OS zone is intended to create, preserve, and enhance land for permanent open space to meet the active and passive recreational needs of Oakland residents and to promote park uses which are compatible with surrounding land uses and the city's natural environment. The zone is typically appropriate in areas of public open space only.

The proposal for installation of a 10 foot extension to an existing 64.3 foot PG&E tower (74.3 foot new total height) to create a Mini-Telecommunications Facility with six (6) antennas and a

646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E and requires a Major Conditional Use Permit since the project is a new mini telecommunications facility within one hundred (100) feet of a residential zone, and Design Review to install a new mini telecommunication facility. Staff finds that the proposed application meets applicable OS-NP 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 15301, additions and alterations to existing structures; 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 17.11.080 of the City of Oakland Planning Code requires a conditional use permit to install a Mini Telecommunication facility in the OS-NP zone. Furthermore, Section 17.134.020 defines a major and minor conditional use permit. Subsections (A)(3)(e and h) lists a major conditional use permit: "Mini Telecommunications Facilities in, or within three hundred (300) feet of the boundary of, any Residential or HBX Zone (e); and Any telecommunication facility in or within one hundred (100) feet of the boundary of any residential zone (h)." 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 mini 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 and meets D since the antennas would be visible from the public right-of-way and site design alternatives is, therefore, required. The project location is appropriate because the antennas installation will be on a quasi-public facility owned by PG&E, 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 PG&E facility and the major highway of 880 adjacent to the site. The applicant has looked at other sites and based on the residential neighborhood and the public utility nature of the site, 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 Hammett & Edison, Inc., (**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.

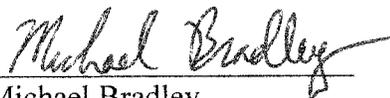
CONCLUSION

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 Conditional Use Permit and Design Review.

RECOMMENDATIONS:

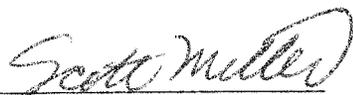
1. Affirm staff's environmental determination
2. Approve Major Conditional Use Permit, and Design Review application PLN15180 subject to the attached findings and conditions of approval.

Prepared by:



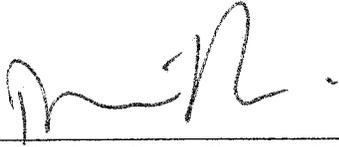
Michael Bradley
Planner II

Reviewed by:



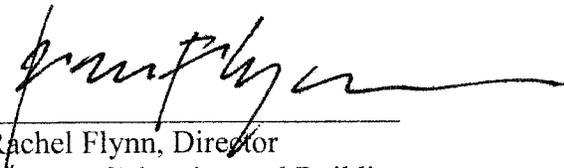
Scott Miller
Zoning Manager

Reviewed by:



Darin Ranelletti, Deputy Director
Bureau of Planning

Approved for forwarding to the
City Planning Commission:



Rachel Flynn, Director
Bureau of Planning and Building

ATTACHMENTS:

- A. Project Plans, Photo Simulations, and Context Photos
- B. Hammett & Edison, Inc. RF Emissions Report
- C. Project Support Statement, Site Alternative Analysis, and Environmental Noise Analysis
- D. Oakland Parks and Recreation Staff Report and Public Notice

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 17.128.060(B), of the telecommunication facilities (Mini) Design Review criteria; and all the required findings under Section 17.128.060.(C), of the telecommunication facilities (Mini) Conditional Use Permit criteria; and Section 17.135.060. 17.135.060 No net loss to Open Space tracking; 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 proposal is for the installation of a 10 foot extension to an existing 64.3 foot PG&E tower (74.3 foot new total height) to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E. 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 Park or PG&E towers.

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 mini telecommunication facility in the Detached Unit 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 for the installation of a 10 foot extension to an existing 64.3 foot PG&E tower (74.3 foot new total height) to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E, which is located in an unpopulated area under PG&E power lines and towers is consistent and well related to the surrounding area in scale, bulk, height, materials, and textures. Through the design and the height of the antennas the proposal will have very little visual impact and should blend into the structure of the existing PG&E tower.

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 an existing PG&E tower approximately 64-74 feet above the ground and will not have any visual impact on the adjacent properties.

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 mini-facility definitions set forth in Section 17.128.060 and meets all design review criteria to minimize all impacts throughout the surrounding area.

17.128.060(B) DESIGN REVIEW CRITERIA FOR MINI FACILITIES

1. Antennas should be painted and/or textured to match the existing structure:

The antennas will be painted matte silver to match the color and finish of the metal tower, as conditioned.

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

The antennas will be attached vertically to the top of the existing 64 foot PG&E tower to look like an extension of the tower. The antennas will be painted matte silver to match the color and finish of the metal tower, as conditioned.

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

The antennas will be attached vertically to the top of the existing 64 foot PG&E tower to look like an extension of the tower. The antennas will be painted matte silver to match the color and finish of the metal tower, as conditioned. The associated cables and equipment attached to the tower will run vertically with the structural elements.

4. Equipment cabinets shall be concealed from view or placed underground:

The equipment cabinets will be located in an area where there is no public access. The equipment cabinets will be concealed within a ground mounted shelter that is screened and protected by fencing.

5. 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 proposed antennas will be mounted 64-74 feet above the ground on an existing PG&E tower which currently has anti-climbing devices in place. The equipment cabinets will be located in an area where there is no public access. The equipment cabinets will be concealed within a ground mounted shelter that is screened and protected by fencing.

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

This finding is inapplicable; the proposal does not involve a roofed structure.

Section 17.128.060(C) CONDITIONAL USE PERMIT (CUP) FINDINGS FOR MINI FACILITIES

1. The project must meet the special design review criteria listed in subsection B of this section (17.128.060B):

The proposed project meets the special design review criteria listed in section 17.128.060B.

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

Due to the proposed project design of the telecommunication antennas and equipment, it will not disrupt the overall community character of the site.

17.135.060 No Net Loss to Open Space Tracking.

A. Beginning on the effective date of the OS Zone regulations, the Oakland City Administrator's Office shall establish an open space tracking system. The tracking system shall be maintained in a publicly accessible format and shall be updated on a continuous basis as additions and subtractions are made to the city's park system. Beginning on the effective date of these regulations, all enclosed facilities in urban parks which exceed one hundred (100) square feet shall be tracked and recorded as "subtractions" from a baseline figure of zero. All acquisition of parkland or creation of new useable public open space shall be tracked and recorded as "additions." Only land which is improved or intended for improvement to urban park standards may be counted as "additions"; acquisition of Resource Conservation Area land is excluded. The city shall strongly encourage actions which result in a net gain of open space; in other words, a condition where the "additions" of open space in the tracking system exceed the "subtractions" resulting from new buildings and structure coverage.

Both Oakland Parks and Recreation staff and the Parks and Recreation Advisory Commission determined that the 646 square foot fenced equipment enclosure on the ground below the existing PG&E tower at a portion of Columbian Gardens Park owned by PG&E does not account for a net loss of open space and support the proposed project. Along with the project currently

not reducing net open space, two current projects which include the development of the “Oak Knoll Naval Hospital” site and the “Brooklyn Basin Oak to 9th” site which will increase the open space totals by potentially several acres.

Based on the size of the site and the numerous utility structures, the antennas and associated equipment proposal will not result in a visual impact and will blend in with the existing characteristics of the site, thus this is the most suitable location for the antennas to be installed. The submitted site alternative analysis and project plans by the applicant demonstrate the appropriateness of the selected location and design.

On November 18, 2015 the project went before the Oakland Parks and Recreation Advisory Commission (PRAC). At that meeting PRAC voted unanimously, 6-0 to recommend approval of the project to the Planning Commission. With the recommendation of approval PRAC also requested three conditions to be considered for the project.

1. All on-site graffiti is removed within 72 hours. (Please see condition of approval #14 below)
2. That the Planning Commission request site improvements to the park of the applicant, Verizon Wireless. These improvements include but are not limited to, new swing-sets, play structures or other park related equipment that neighborhood residents can enjoy while visiting the park.
3. That a greater community outreach be completed by the applicant to the surrounding neighbors in the form of a community meeting in close proximity to the site.

CONDITIONS OF APPROVAL**PLN15180****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, **PLN15180**, and the plans dated **February 17, 2015** and submitted on **March 26, 2015** 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: **Design Review and a Major Conditional Use Permit to install a 10 foot extension to an existing 64.3 foot PG&E tower to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E at Empire Road (Adjacent to 9902 Empire Road). (APN: 045-5322-030-00), under Oakland Municipal Code 17.128, 17.136, 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 laws/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. Compliance with other applicable requirements may

require changes to the approved use and/or plans. These changes shall be processed in accordance with the procedures contained in Condition of Approval 3.

- 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 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 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. 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 CONDITIONS:

14. Graffiti Control

Requirement:

- a. During construction and operation of the project, the project applicant shall incorporate best management practices reasonably related to the control of graffiti and/or the mitigation of the impacts of graffiti. Such best management practices may include, without limitation:
 - Installation and maintenance of landscaping to discourage defacement of and/or protect likely graffiti-attracting surfaces.
 - Installation and maintenance of lighting to protect likely graffiti-attracting surfaces.
 - Use of paint with anti-graffiti coating.

Incorporation of architectural or design elements or features to discourage graffiti defacement in accordance with the principles of Crime Prevention Through Environmental Design (CPTED).

Other practices approved by the City to deter, protect, or reduce the potential for graffiti defacement.

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

- i. Removal through scrubbing, washing, sanding, and/or scraping (or similar method) without damaging the surface and without discharging wash water or cleaning detergents into the City storm drain system.
- ii. Covering with new paint to match the color of the surrounding surface.
- iii. Replacing with new surfacing (with City permits if required).

When Required: Ongoing

Initial Approval: N/A

Monitoring/Inspection: Bureau of Building

15. Radio Frequency Emissions

Prior to the final building permit sign off

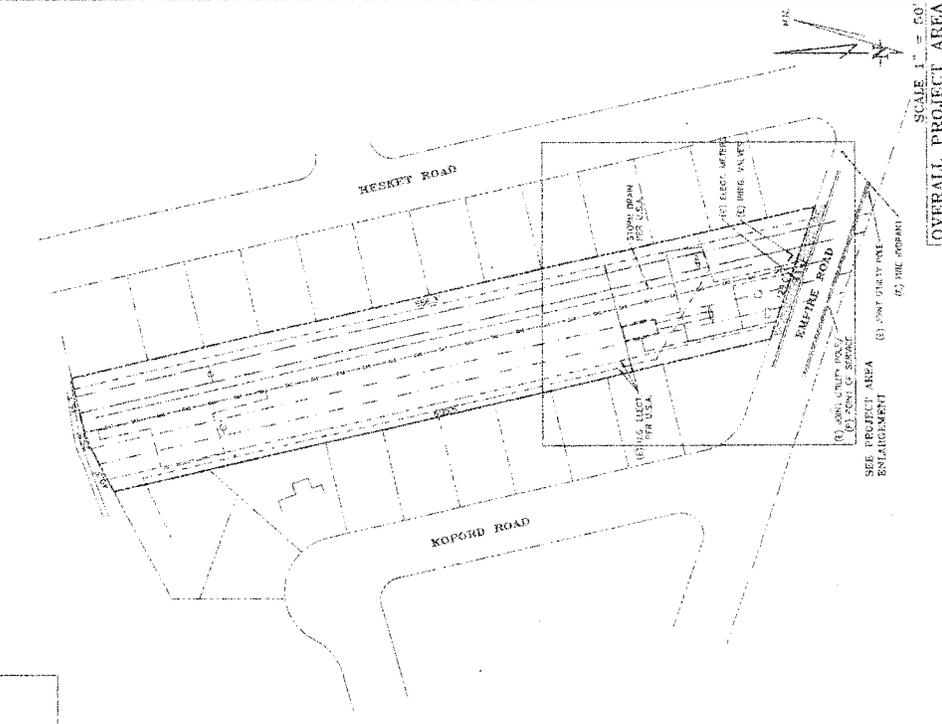
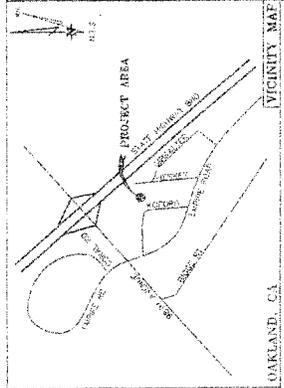
The applicant shall submit a certified RF emissions report stating the facility is operating within the acceptable standards established by the regulatory Federal Communications Commission.

DATE	1/27/03
BY	W. J. BROWN
CHECKED	W. J. BROWN
SCALE	1" = 50'
TITLE	OVERALL PROJECT AREA



PLAT PLAN AND
SITE TOPOGRAPHY
Highway 880 & 89th
Empire Road
Oakland, CA 94177

NO.	DATE	DESCRIPTION
01	1/27/03	PRELIMINARY
02	2/10/03	REVISED
03	3/10/03	REVISED
04	4/10/03	REVISED
05	5/10/03	REVISED
06	6/10/03	REVISED
07	7/10/03	REVISED
08	8/10/03	REVISED
09	9/10/03	REVISED
10	10/10/03	REVISED
11	11/10/03	REVISED
12	12/10/03	REVISED



THIS PROJECT IS SUBJECT TO ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE CITY AND COUNTY OF OAKLAND, CALIFORNIA, AND THE STATE OF CALIFORNIA. THE PROJECT IS SUBJECT TO THE FOLLOWING RESTRICTIONS:

1. THE PROJECT SHALL BE CONFORMANT WITH ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE CITY AND COUNTY OF OAKLAND, CALIFORNIA, AND THE STATE OF CALIFORNIA.

2. THE PROJECT SHALL BE CONFORMANT WITH ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE CITY AND COUNTY OF OAKLAND, CALIFORNIA, AND THE STATE OF CALIFORNIA.

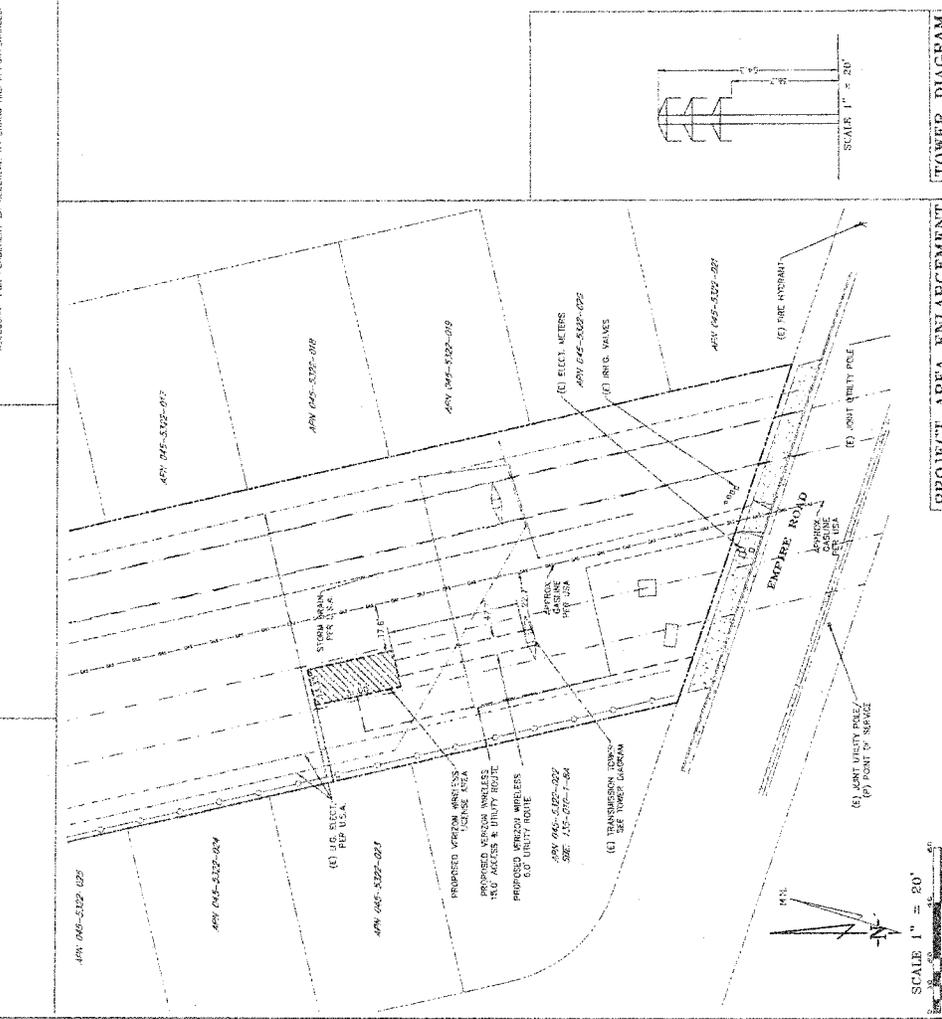
3. THE PROJECT SHALL BE CONFORMANT WITH ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE CITY AND COUNTY OF OAKLAND, CALIFORNIA, AND THE STATE OF CALIFORNIA.

VERIZON WIRELESS
HIGHWAY 880 & 89TH LIDCONE AREA
ALL THE CERTAIN LIDCONE AREA BEING A PORTION OF PARCELS 101
112 AS delineated on the map of parcel map recorded in roll 8 of
book 10000 page 10000 of the public records of the County of Alameda,
California, more particularly recording as follows:

CONSIDERING AT THE NORTHWEST CORNER SAID LOT 147, THERE ALONG THE
WESTERLY BOUNDARY THEREOF SOUTH 89TH STREET EAST 2800 FEET, THENCE
SOUTH 89TH STREET EAST 2800 FEET, THENCE SOUTH 89TH STREET EAST
2800 FEET, THENCE SOUTH 89TH STREET EAST 2800 FEET, THENCE SOUTH
89TH STREET EAST 2800 FEET, THENCE SOUTH 89TH STREET EAST 2800
FEET TO THE POINT OF BEGINNING, THENCE SOUTH 89TH STREET EAST
2800 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 89TH STREET EAST
2800 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 89TH STREET EAST
2800 FEET TO THE POINT OF BEGINNING.

DATE OF SURVEY: 05-25-14
COMPILED BY: JAMES W. BROWN, D. BELL, E.E.
1982
LOCATED IN THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA
BY ENGINEERS JAMES W. BROWN AND JAMES W. BROWN, LICENSE NO. 445-5322-005
GEODETIC INFORMATION: THIS IS NOT A GEODETIC SURVEY.
ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON THE
NATIONAL DATUM OF 1983, BEING MEAN SEA LEVEL, UNLESS OTHERWISE
NOTED. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
N.S.A.D. ROAD CONSTRUCTION: SUBTRACT 2.00 FROM ELEVATIONS
SHOWN.
OUTSIDE INTERVAL: N.E.
ASSESSOR'S PARCEL NUMBER: 045-5322-005
L.A.N. NUMBER: N.E. 1/4 E 63
P.C. 207 21000
S.M. 2141-282, 214 9417

Project Name: Highway 880 & 89th
Project Site Location: Oakland, CA 94177
Date of (Re)creation: 01-07-13
Equipment/Structure Used to Obtain Coordinates: Trimble
Trimble 5600i and associated with Trimble. Other software
Type of Antenna Mount: Laying Tricornered Tower
Coordinates
Latitude: N 37°42'45.71" (NAD83) U 77°41'48.08" (NAD83)
Longitude: W 127°17'28.78" (NAD83) W 127°17'16.87" (NAD83)
ELEVATION at Ground at Structure (NAD83): 14.5' ANSL
Height of Structure: 64.5' ANSL



VERIZON WIRELESS
HIGHWAY 880 & 89TH LIDCONE AREA
ALL THE CERTAIN LIDCONE AREA BEING A PORTION OF PARCELS 101
112 AS delineated on the map of parcel map recorded in roll 8 of
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P.C. 207 21000
S.M. 2141-282, 214 9417

SCALE 1" = 50'
OVERALL PROJECT AREA

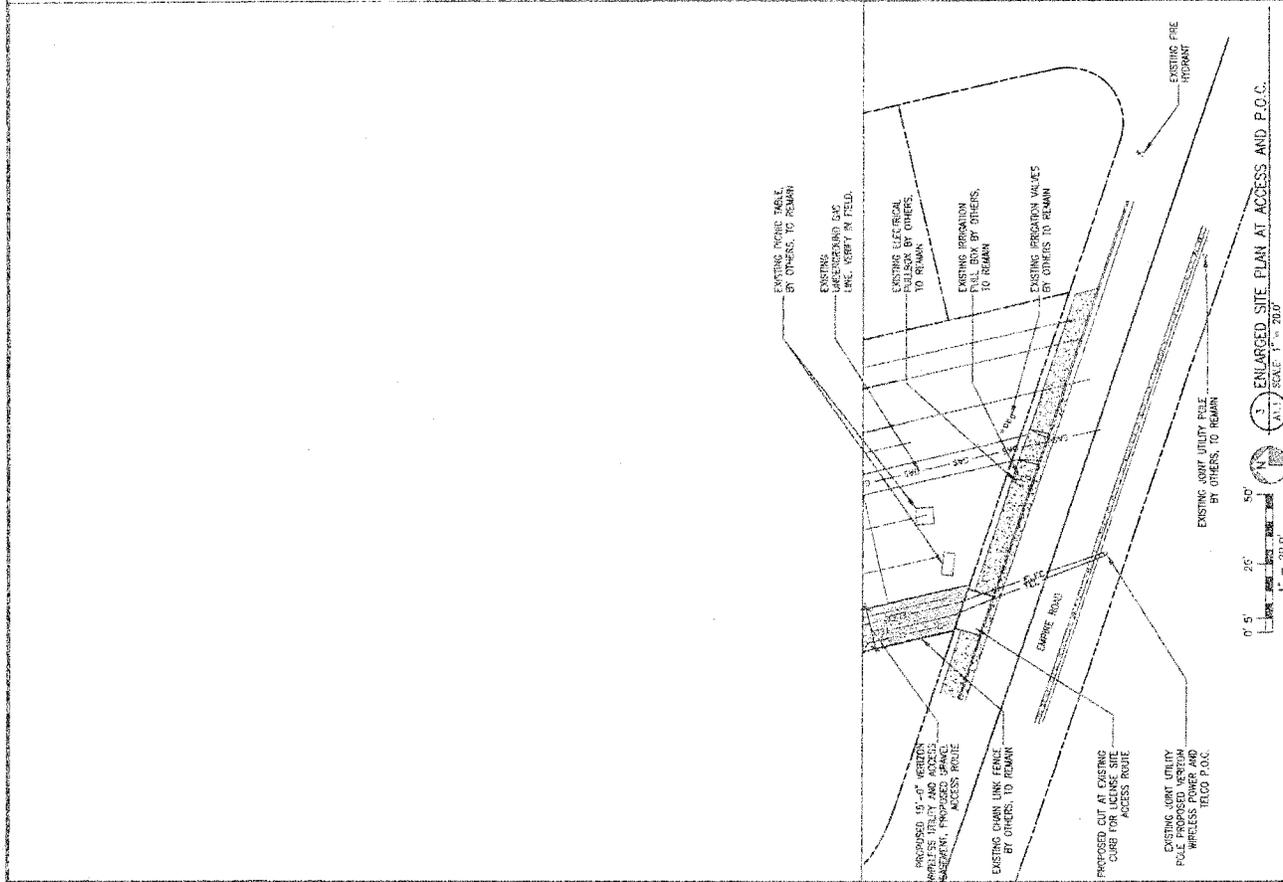
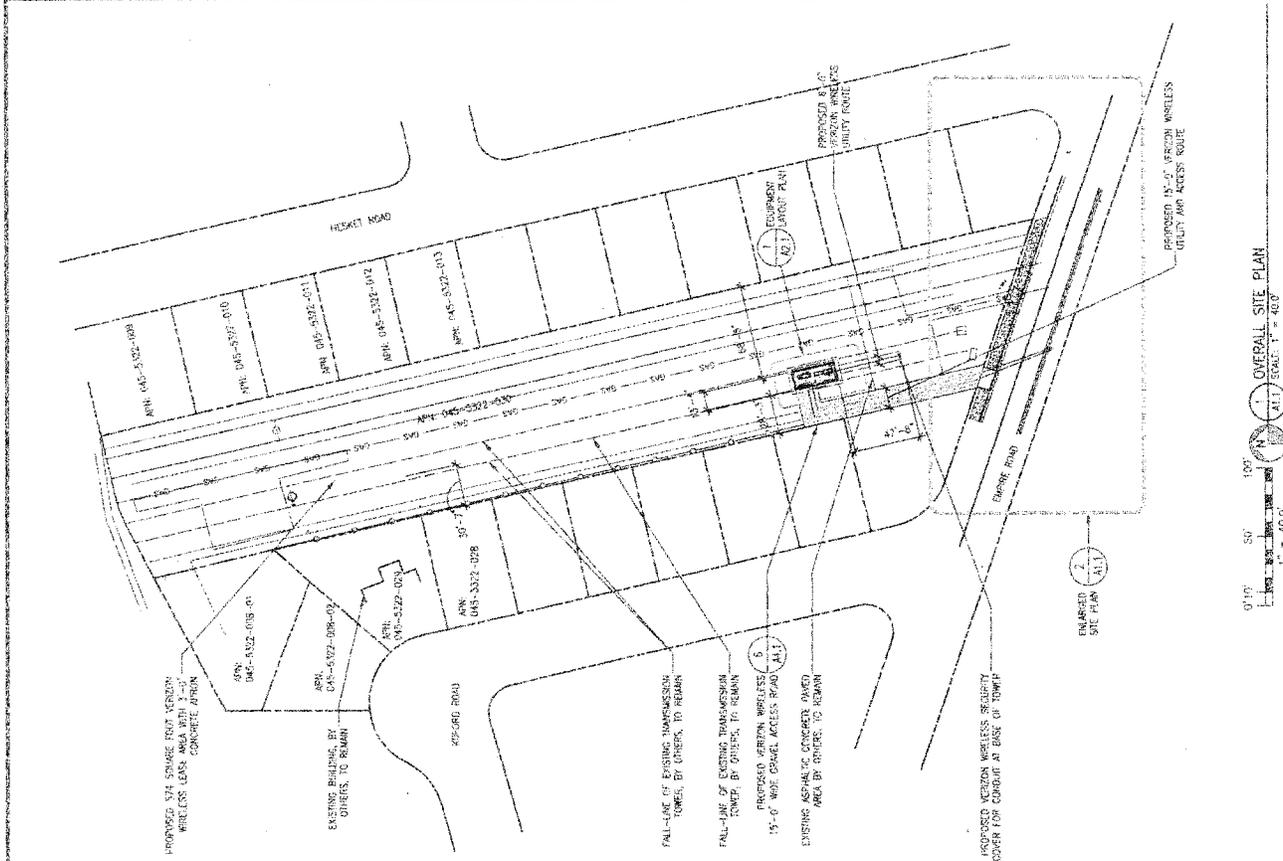
SCALE 1" = 20'
PROJECT AREA ENLARGEMENT

SCALE 1" = 20'
TOWER DIAGRAM



DATE: 01/11/11
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: 1" = 40.0'

ALI
 1000 BAY STREET
 OAKLAND, CA 94603
 TEL: 415.778.8800
 FAX: 415.778.8801
 WWW.ALIARCHITECTS.COM



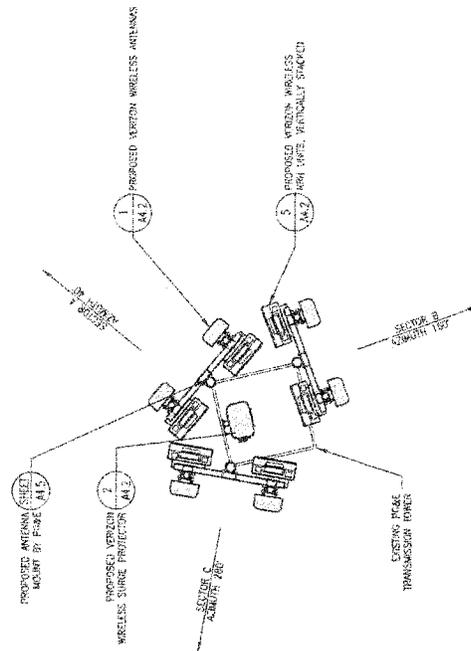
OVERALL SITE PLAN
 SCALE: 1" = 40.0'

ENLARGED SITE PLAN AT ACCESS AND P.O.C.
 SCALE: 1" = 20.0'



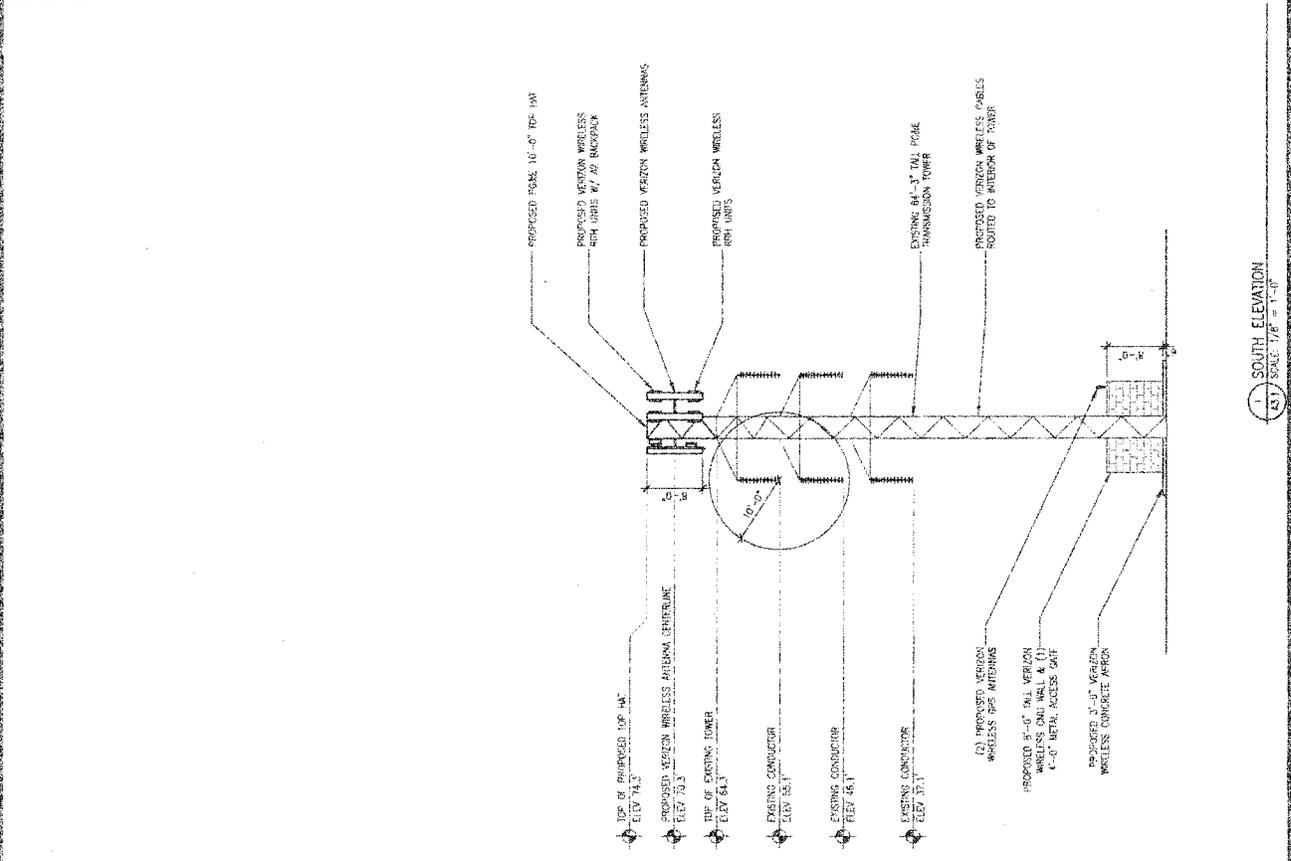
DATE:	11/11/11
BY:	Michael J. Smith
CHECKED BY:	Michael J. Smith
SCALE:	1/2" = 1'-0"

EQUIPMENT	DESCRIPTION	QUANTITY			TOTAL
		SECTOR A	SECTOR B	SECTOR C	
ANTENNA	EX-10583C	2	2	2	6
RHN	EX-10512	2	2	2	6
SEW	PROTECT W/ A2 INSULATION TO BE RETRANSMITTED	0	2	2	4
BLEEDER	PROTECT PROTECTING	0	0	0	0
POWERMETER	PROTECT PROTECTING	1	1	1	1
POWERMETER	7/8" DAMPER CORD	4	4	4	12
LET TABLE	N/A	0	0	0	0

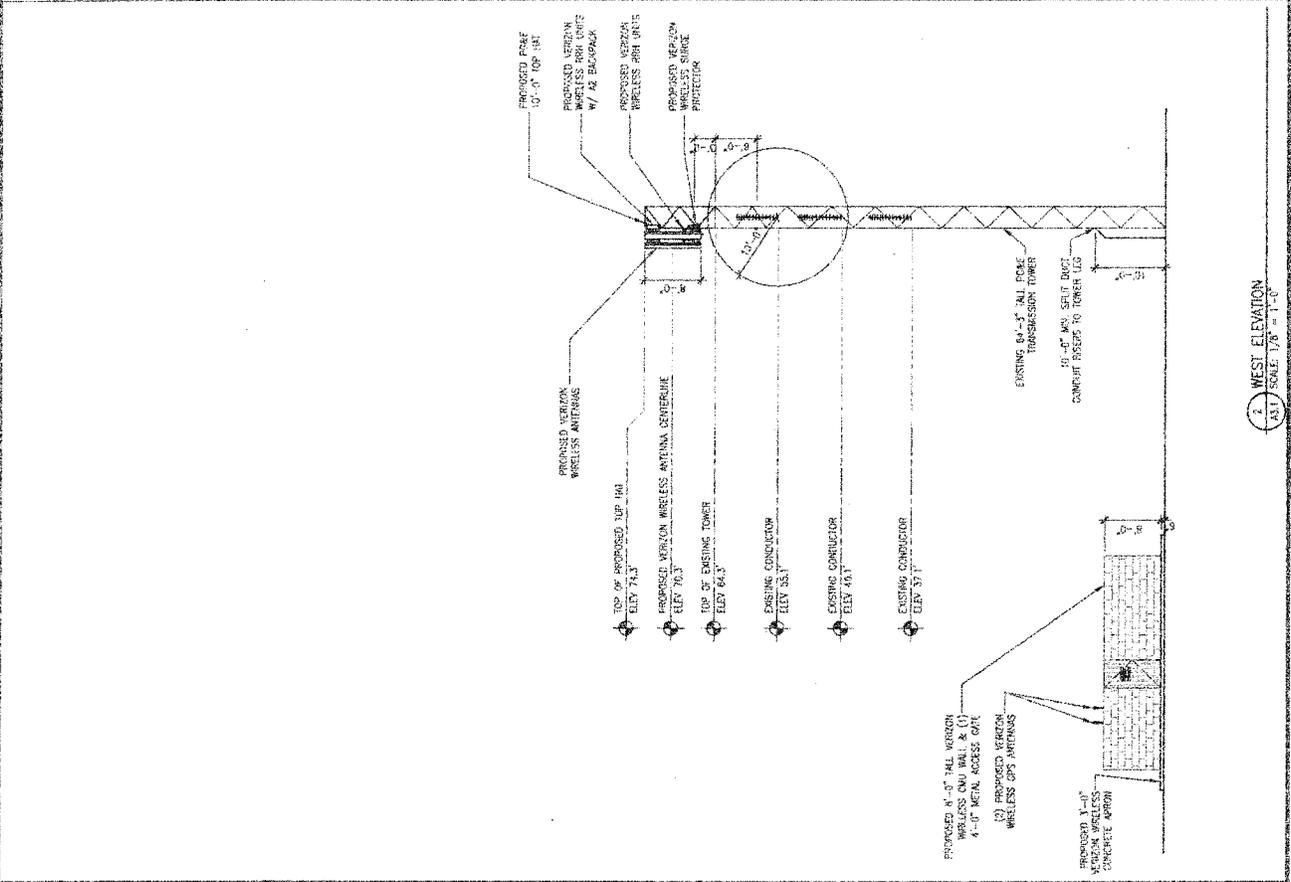




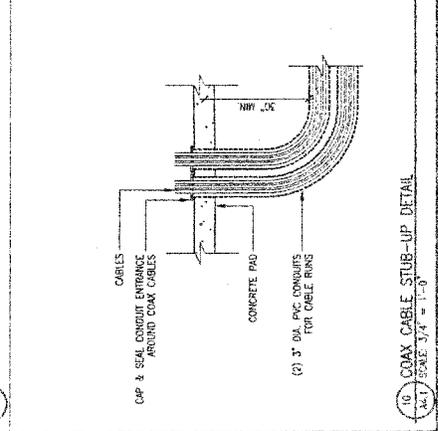
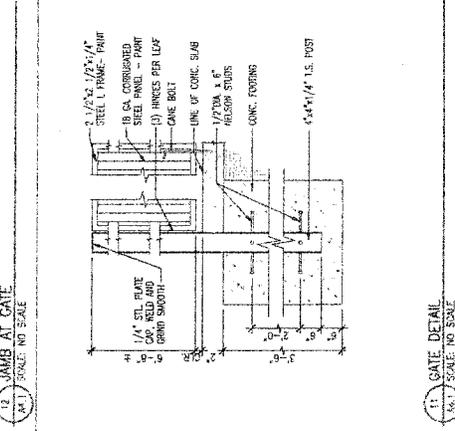
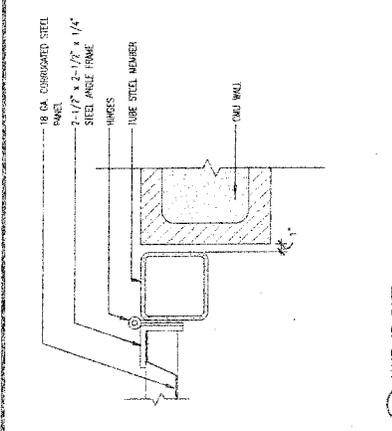
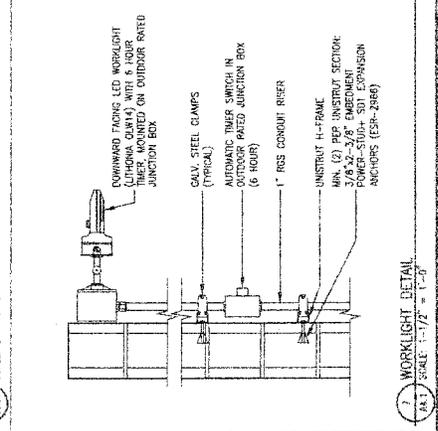
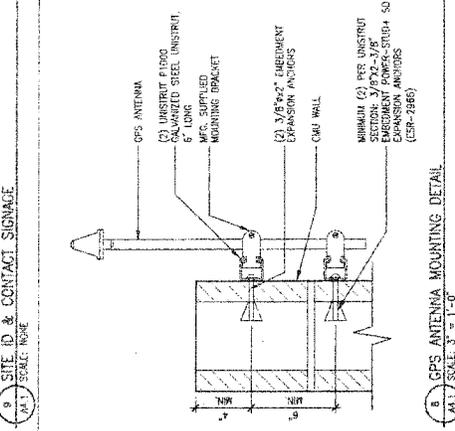
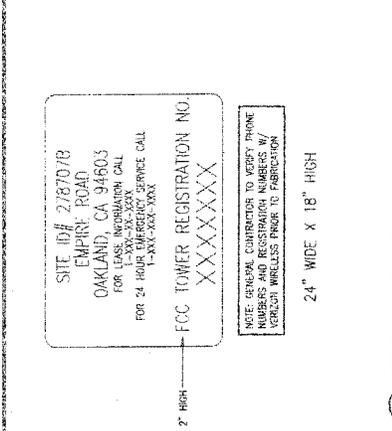
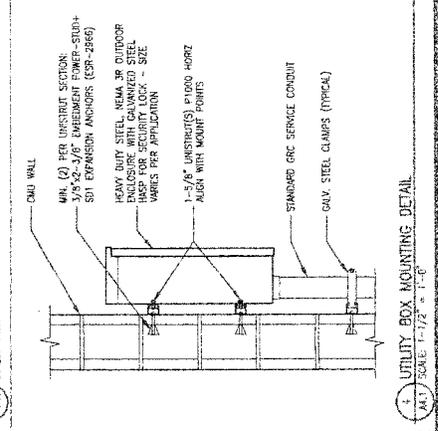
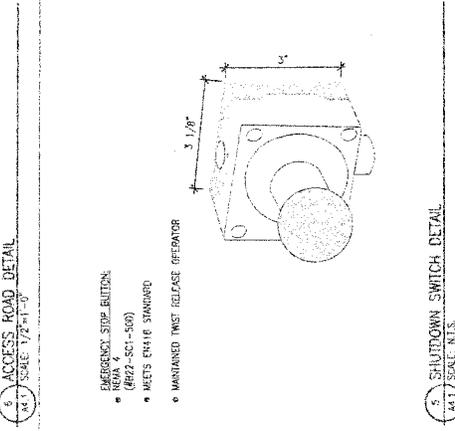
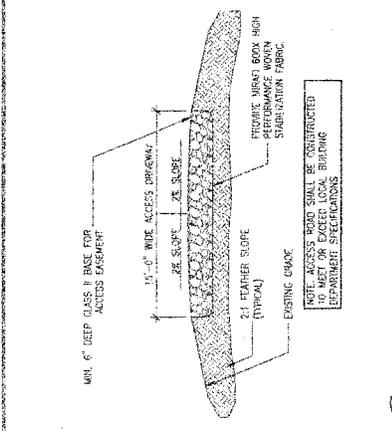
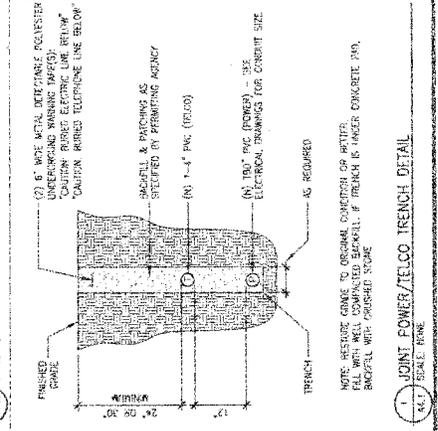
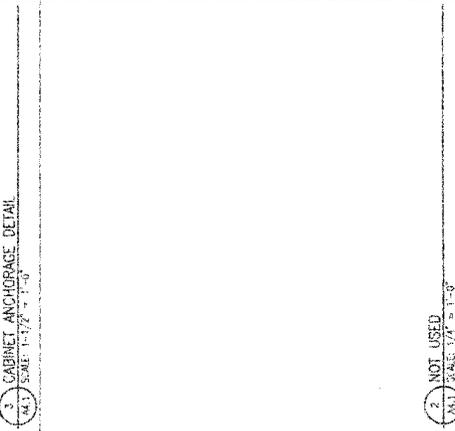
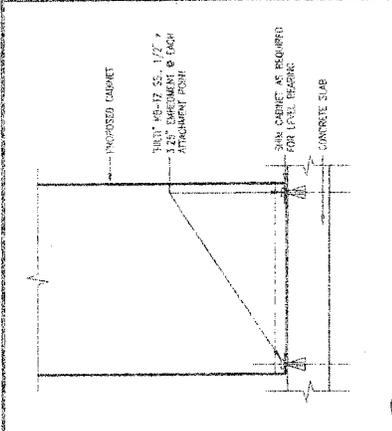
NO.	REVISION	DATE
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2	ISSUE FOR PERMIT	08/11/2011
3	ISSUE FOR PERMIT	08/11/2011
4	ISSUE FOR PERMIT	08/11/2011
5	ISSUE FOR PERMIT	08/11/2011
6	ISSUE FOR PERMIT	08/11/2011
7	ISSUE FOR PERMIT	08/11/2011
8	ISSUE FOR PERMIT	08/11/2011
9	ISSUE FOR PERMIT	08/11/2011
10	ISSUE FOR PERMIT	08/11/2011



1 SOUTH ELEVATION
 (A1) SCALE 1/8" = 1'-0"



2 WEST ELEVATION
 (A1) SCALE 1/8" = 1'-0"



1. JAMB AT GATE
 (A.1) SCALE: NO SCALE

2. GATE DETAIL
 (A.1) SCALE: NO SCALE

3. COAX CABLE STUB-UP DETAIL
 (A.1) SCALE: 3/4" = 1'-0"

4. ACCESS ROAD DETAIL
 (A.1) SCALE: 1/2" = 1'-0"

5. SHUTDOWN SWITCH DETAIL
 (A.1) SCALE: N.T.S.

6. UTILITY BOX MOUNTING DETAIL
 (A.1) SCALE: 1-1/2" = 1'-0"

7. WORKLIGHT DETAIL
 (A.1) SCALE: 1-1/2" = 1'-0"

8. GPS ANTENNA MOUNTING DETAIL
 (A.1) SCALE: 3" = 1'-0"

9. SITE ID & CONTACT SIGNAGE
 (A.1) SCALE: NONE

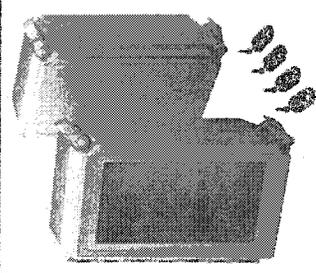
10. CABINET ANCHORAGE DETAIL
 (A.1) SCALE: 1-1/2" = 1'-0"

11. NOT USED
 (A.1) SCALE: 1/4" = 1'-0"

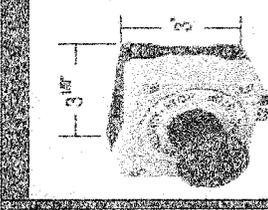
12. JOINT POWER/TELCO TRENCH DETAIL
 (A.1) SCALE: NONE

PG&E Material and Hardware

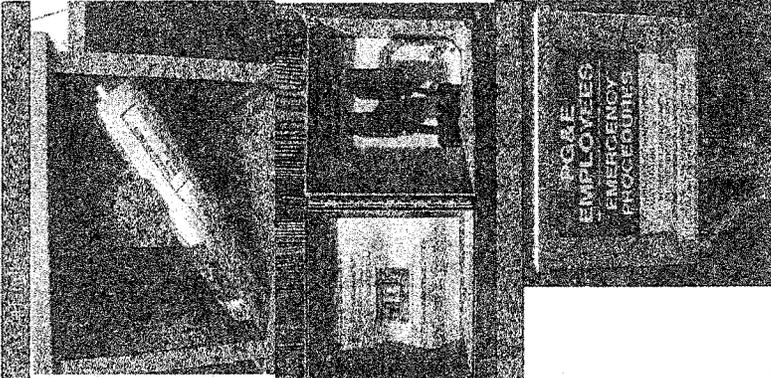
Field Notes: (#1) Approved RF Disconnects are designed by the Carrier and tested/confirmed by PG&E. (#2) PG&E locks (ONLY) installed on RF Disconnect and Document boxes. (#3) Access Gate Lock Configurations as noted - multiple locks to be inserted/daisy chained inside the "eye-bolts"



Model # A14128CHQRFGW - Fiberglass, Quick Release Latch with Standard Cover (Generator Documents BOX)
Model # ABR86 - NEMA Type 3R Enclosure, Screw Cover



Meets EN418 Standard Maintained Twist Release Operator NEMA 4 #B22-SC1-60D

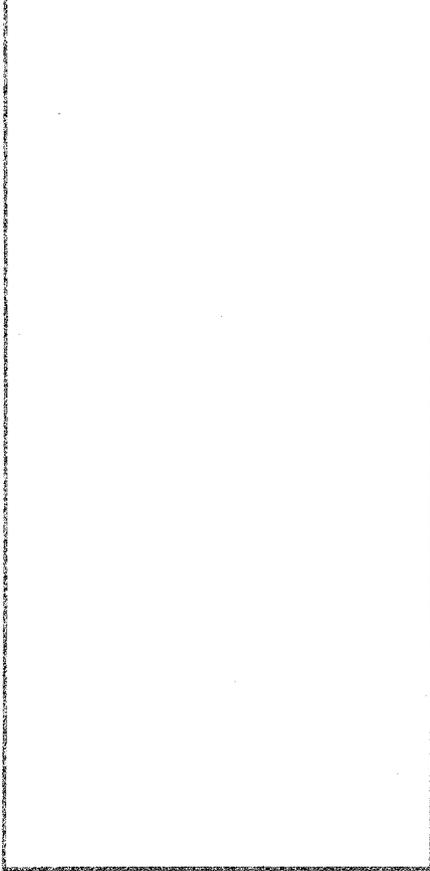
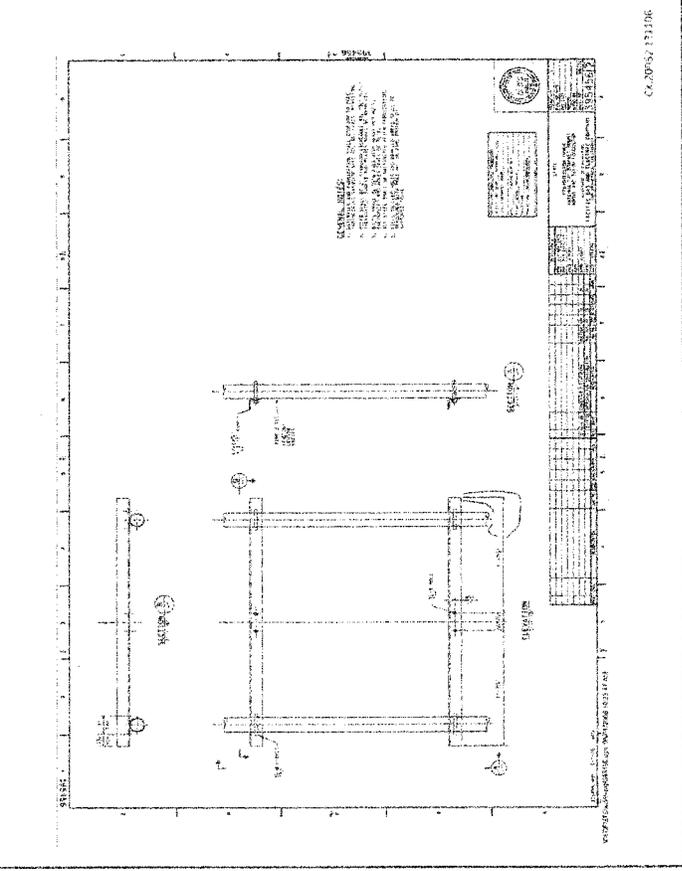
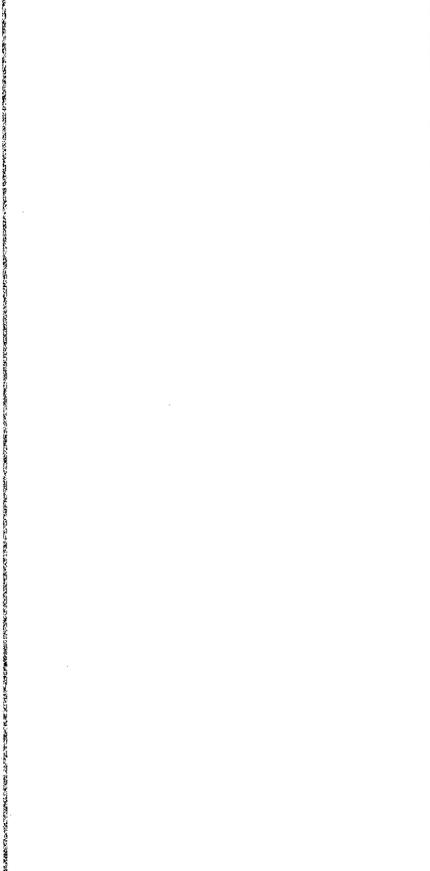


- 1) This arrangement is for wood gates and fences. For other types of enclosures (CMU, fiberglass, or metal) use appropriate eyebolt type.
- 2) If additional locks are required, daisy-chain them between eyebolts.
- 3) HB IVES Lag thread eyebolt: 3/8" dia, 4-1/2" overall length, 2" thread length, 1-1/8" ID eye, zinc plated steel - or equal.
- 4) 5/16" Grade 40 chain.

CX.20052.131106



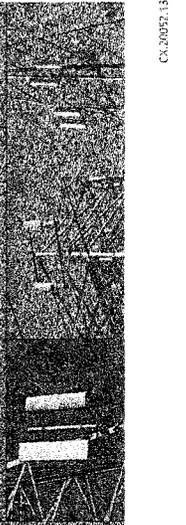
Project No.	CA 20057
Sheet No.	3 of 3
Scale	AS SHOWN
Author	J. [Name]
Check	[Name]
Date	12/15/10



PG&F Hardware and Material

PG&F Antenna (PG&F) supplies and installs antenna conductors, K-frames, (K1) OC supports and bolts. Below Conductors: (K1) OC supports and bolts. Below K-frames: (K1) OC supports and bolts. Below Conductors: (K1) OC supports and bolts. Below K-frames: (K1) OC supports and bolts. Below Conductors: (K1) OC supports and bolts. Below K-frames: (K1) OC supports and bolts.

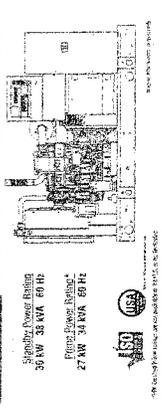
Angle Steel Size	12" x 12" x 1/2"
Angle Steel Length	13' 6" x 2'
Pipe Size	40 (2.125" OD x 2)
Pipe Length	Values based on Antenna
1/2" Bolt Size	(2" x 1/2" x 6)
Hardware	(1/2" x 12) A325 Galvanized bolts, flts, lock washers and heavy hex nuts
Notes	1) See PG&F K-Frame Engineering drawing # 305456 rev 2 for design measurements and hole patterns 2) Materials and Fabrication shall conform to PG&F Engineering Standards, Latest Revision. 3) Plates shall be 1/2" standard to include 40, (2-3/8) 1/8", galvanized. Angle and plates shall be ASTM A36. 4) Bolts shall be (1/2") A193 with heavy hex nuts, galvanized and holes shall be (5/16") 5) Field Drilled holes and damaged areas shall be retouched with PG&F No. 56 Zinc Primer or approved paint.



CA 20057, 131106

CA 20057, 131106

GENERAC INDUSTRIAL
SD030
2.4L
Industrial Diesel Generator Set
 THE RATED 50/60 Hertz Emergency



Standby Diesel Rating
 30 kW 38 kVA 40 hp

Prime Power Rating
 27 kW 34 kVA 37 hp

Powering Ahead
 For use in areas where power is not available, the SD030 is the perfect standby generator.

Generator Set
 The SD030 is a compact, portable generator set that can be used in a wide variety of applications. It is designed for use in areas where power is not available, such as construction sites, remote locations, and emergency backup power.

GENERAC INDUSTRIAL
SD030
Standby Diesel Rating
 30 kW 38 kVA 40 hp

Prime Power Rating
 27 kW 34 kVA 37 hp

Standby Diesel Rating
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GENERAC INDUSTRIAL
SD030
Standby Diesel Rating
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Prime Power Rating
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Standby Diesel Rating
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Prime Power Rating
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Standby Diesel Rating
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Prime Power Rating
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GENERAC INDUSTRIAL
SD030
Application and engineering data

General Information

Dimensions and Weights

Operating Data

Application and Engineering Data

GENERAC INDUSTRIAL
SD030
Application and engineering data

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SD030
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General Information

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MST ARCHITECTS
 1000 14th Street, Suite 1000
 Oakland, CA 94612
 Phone: (415) 778-1000
 Fax: (415) 778-1001
 Website: www.mstarchitects.com

VERTIZON
 1000 14th Street, Suite 1000
 Oakland, CA 94612
 Phone: (415) 778-1000
 Fax: (415) 778-1001
 Website: www.vertizon.com

STANBY GENERATOR DATASHEETS
 A6.1

MST ARCHITECTS
 COMPLETE
 1001 ...
 ...

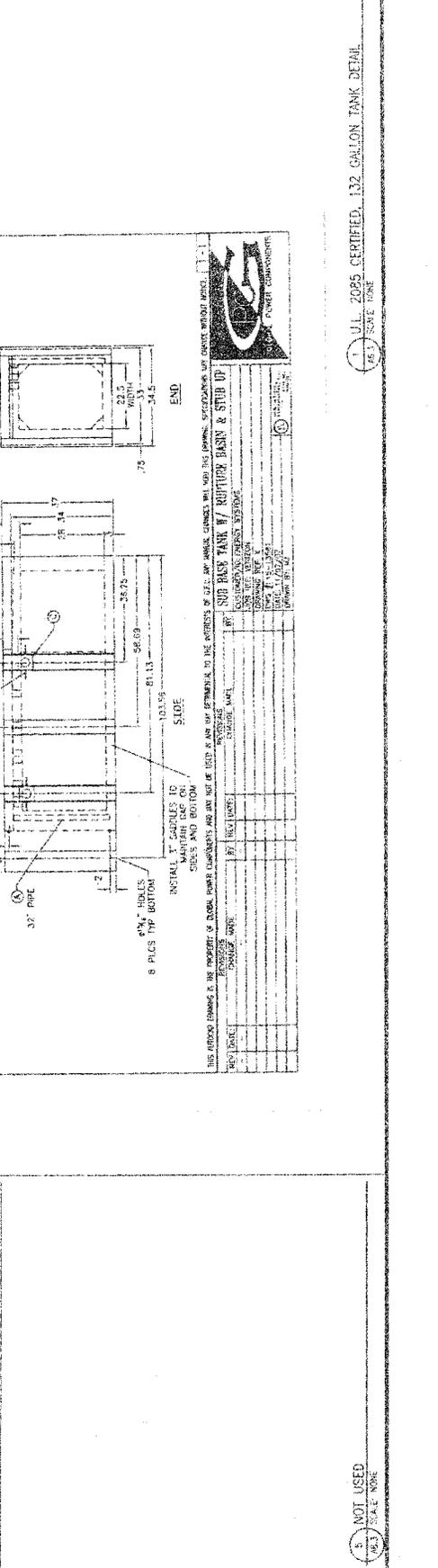
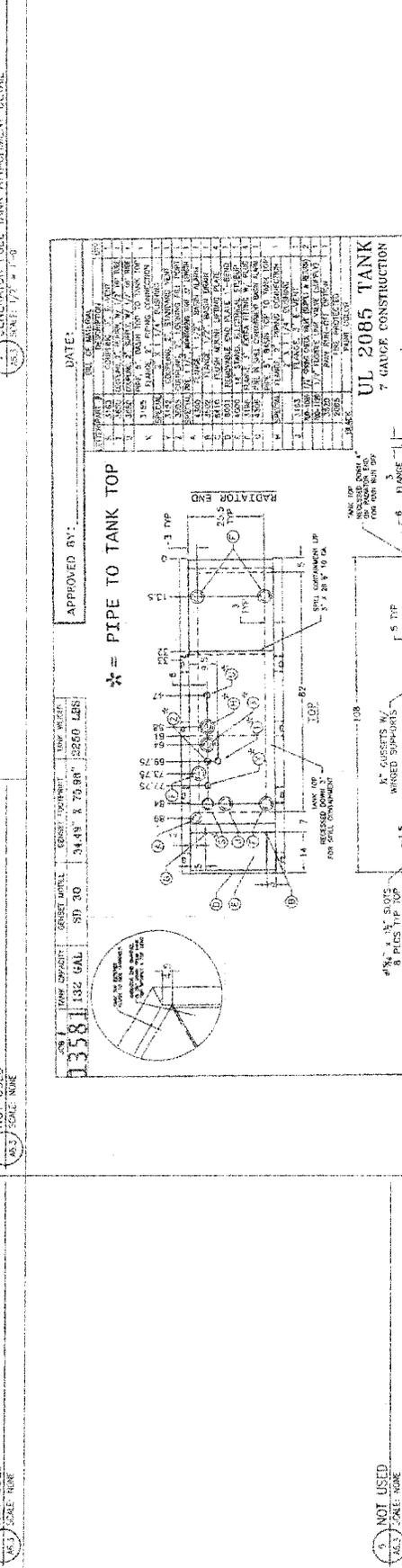
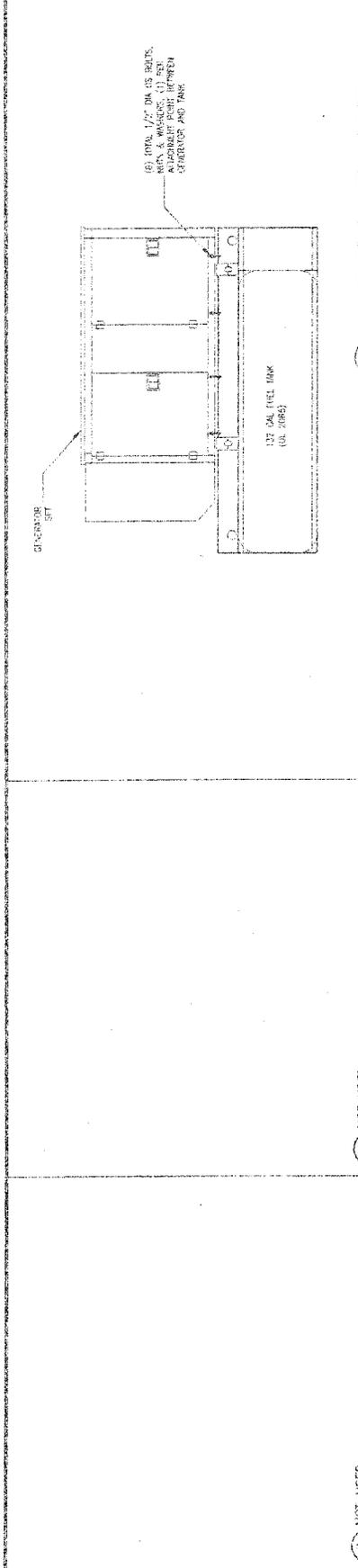
VERTIZON
 4MY 280 & 98TH
 EMPERE ROAD
 OAKLAND, CA 94612
 U.L. 2085 CERTIFIED, 132 GALLON TANK DETAIL



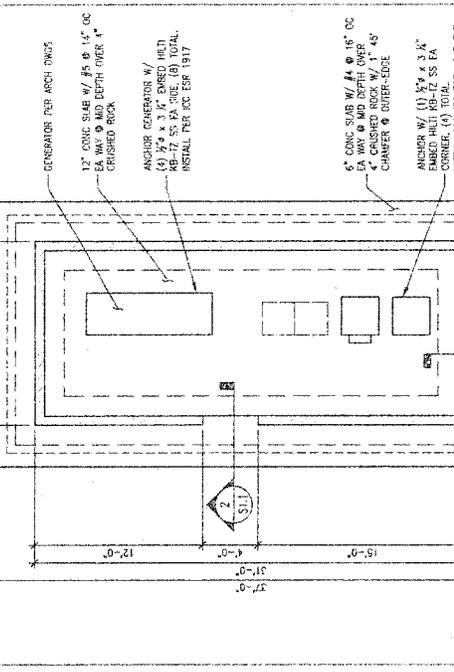
DATE	11/11/11
SCALE	AS SHOWN
PROJECT	...
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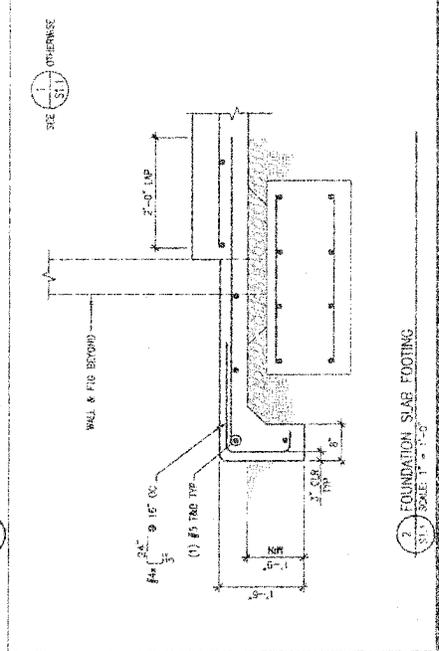
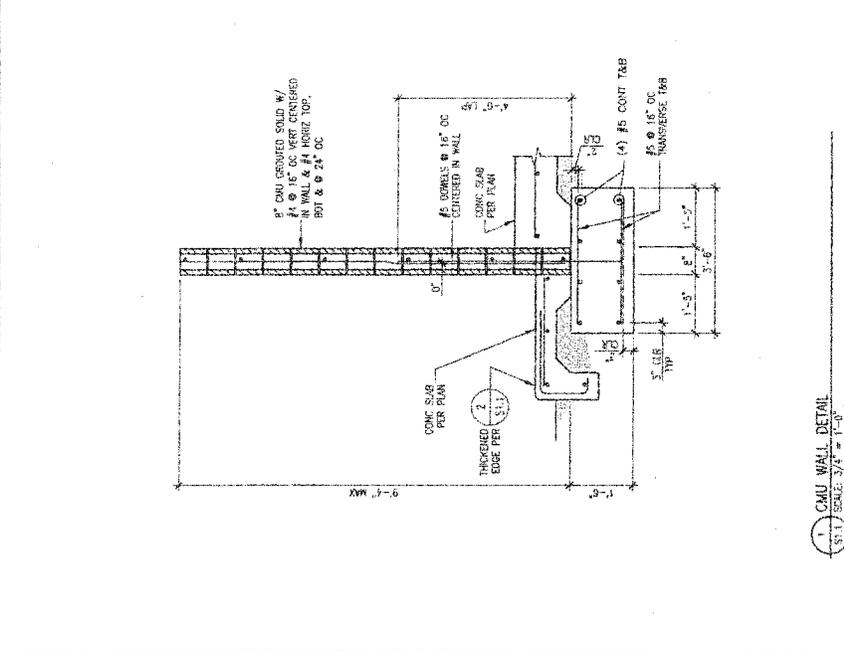
A6.3



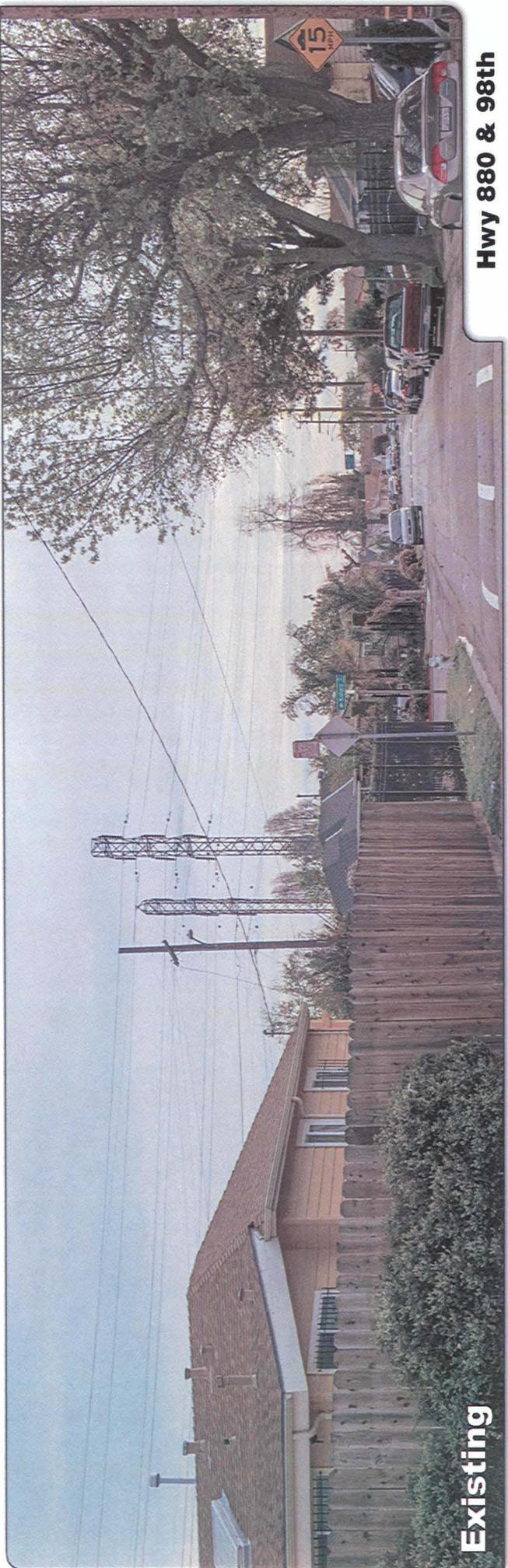
1. All work shall be in accordance with the California Building Code, 1997, as amended.
2. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.
3. The contractor shall be responsible for obtaining all necessary insurance coverage.
4. The contractor shall be responsible for obtaining all necessary bonding.
5. The contractor shall be responsible for obtaining all necessary approvals from the appropriate authorities.
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EQUIPMENT FOUNDATION PLAN
 S.I. SCALE: 1/4" = 1'-0"



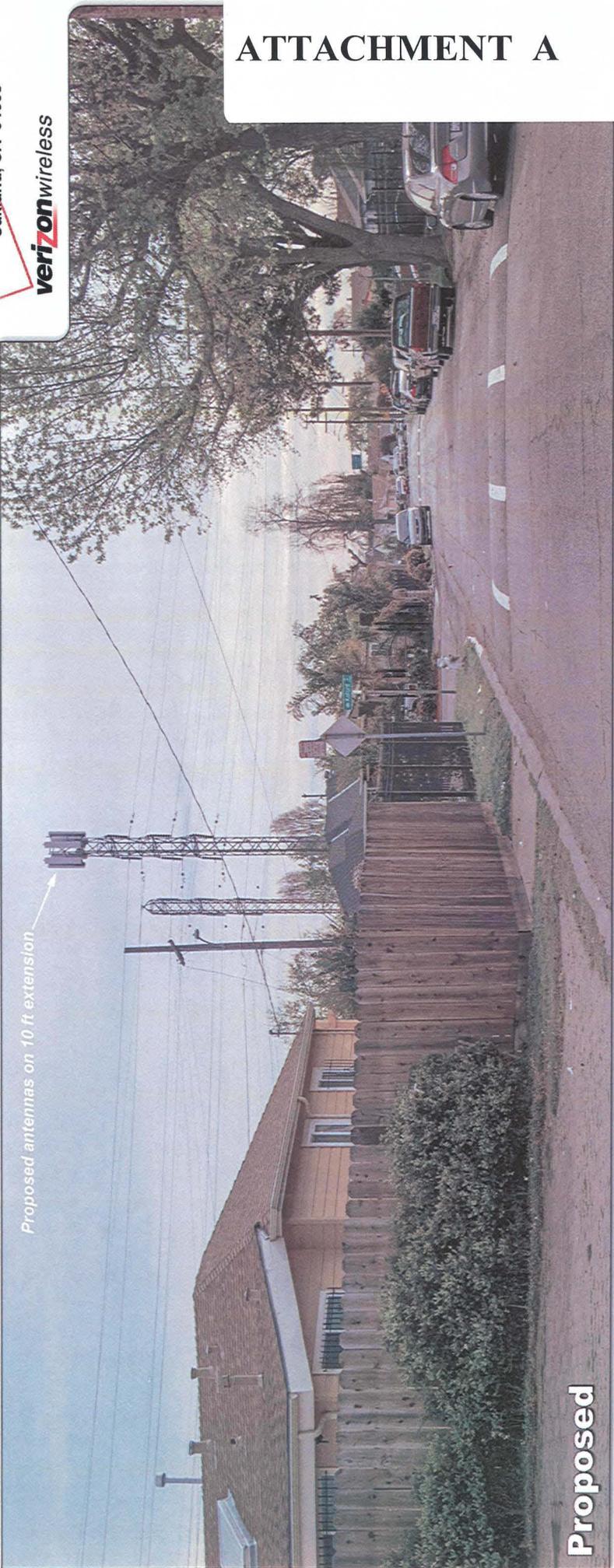
FOUNDATION SLAB FOOTING
 S.I. SCALE: 1" = 1'-0"



Existing

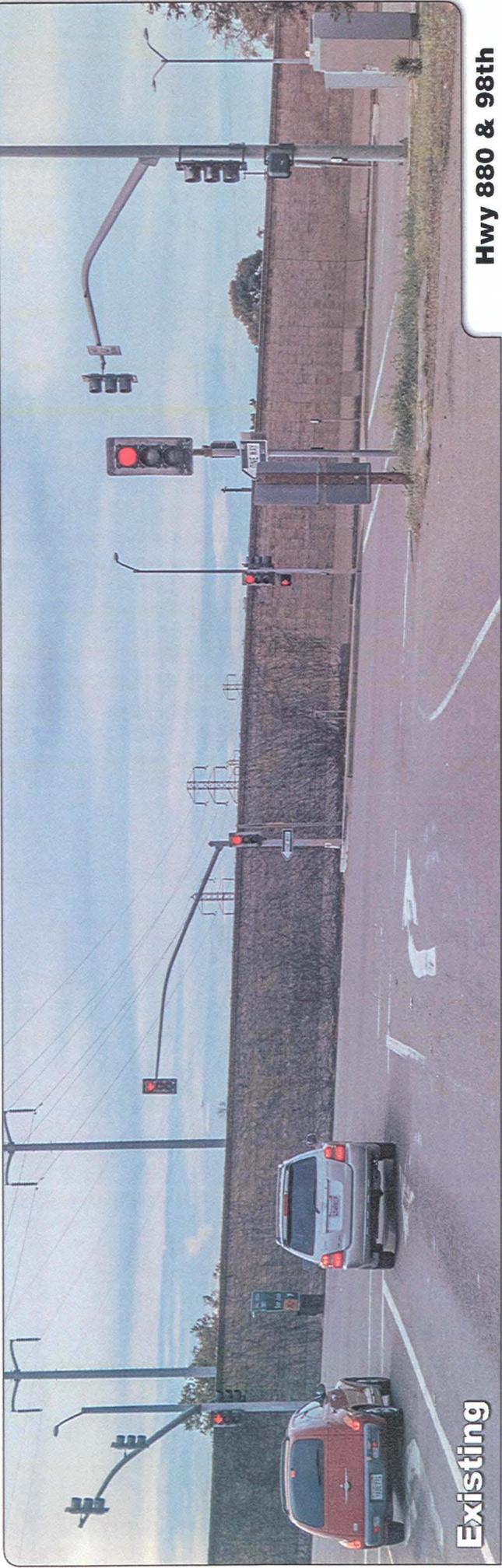
Photosimulation of the view looking east along Empire Road.

Hwy 880 & 98th
 Empire Road
 Oakland, CA 94603



Proposed

ATTACHMENT A

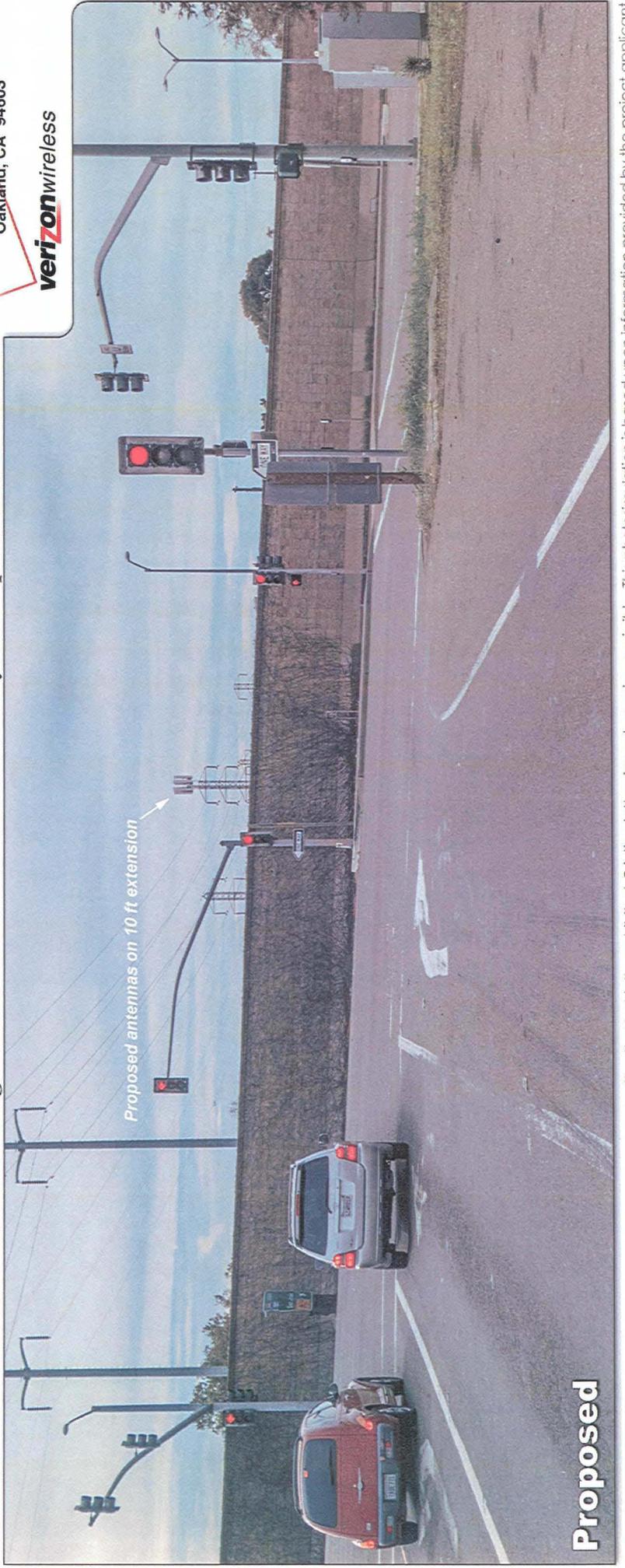


Existing

Photosimulation of the view looking south from the southbound freeway offramp to 98th Ave.

Hwy 880 & 98th

Empire Road
Oakland, CA 94603



Proposed

Photosimulation of the view looking northwest from across Empire Road.



Proposed antennas
on a 10 ft extension



Proposed 8 ft wall enclosing cabinets

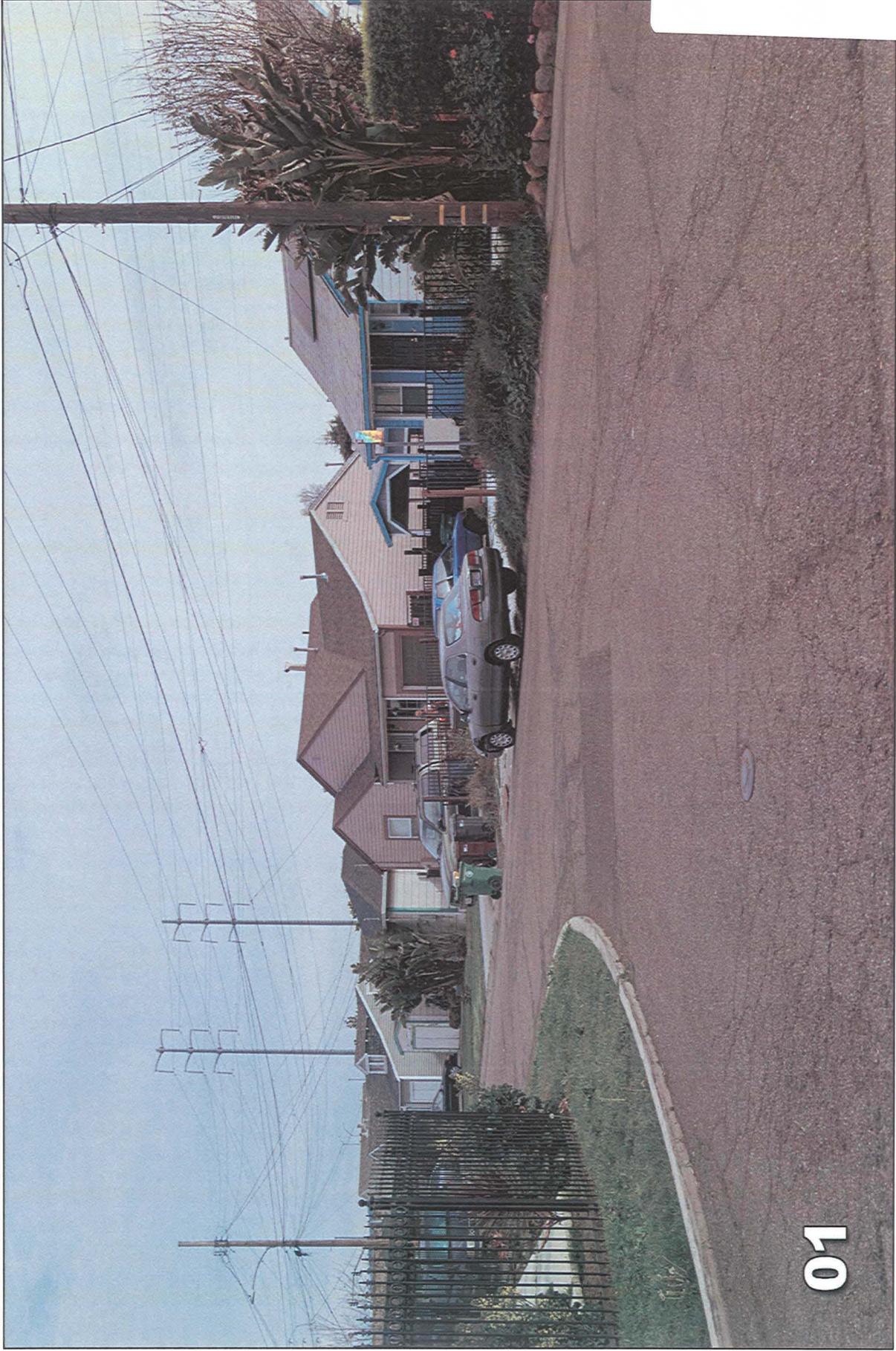
Hwy 880 & 98th
Empire Road
Oakland, CA 94603



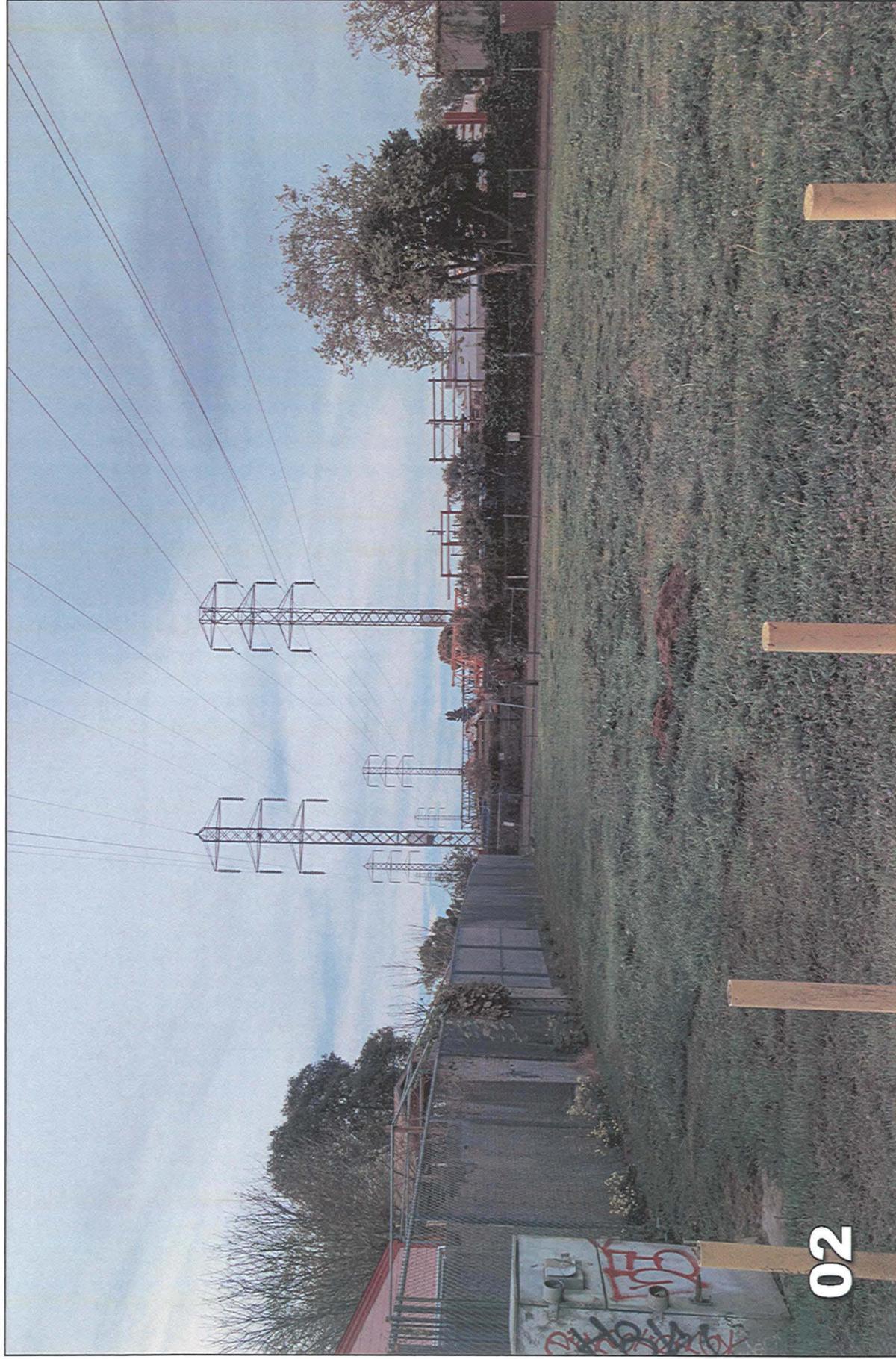
Existing

Proposed

Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)

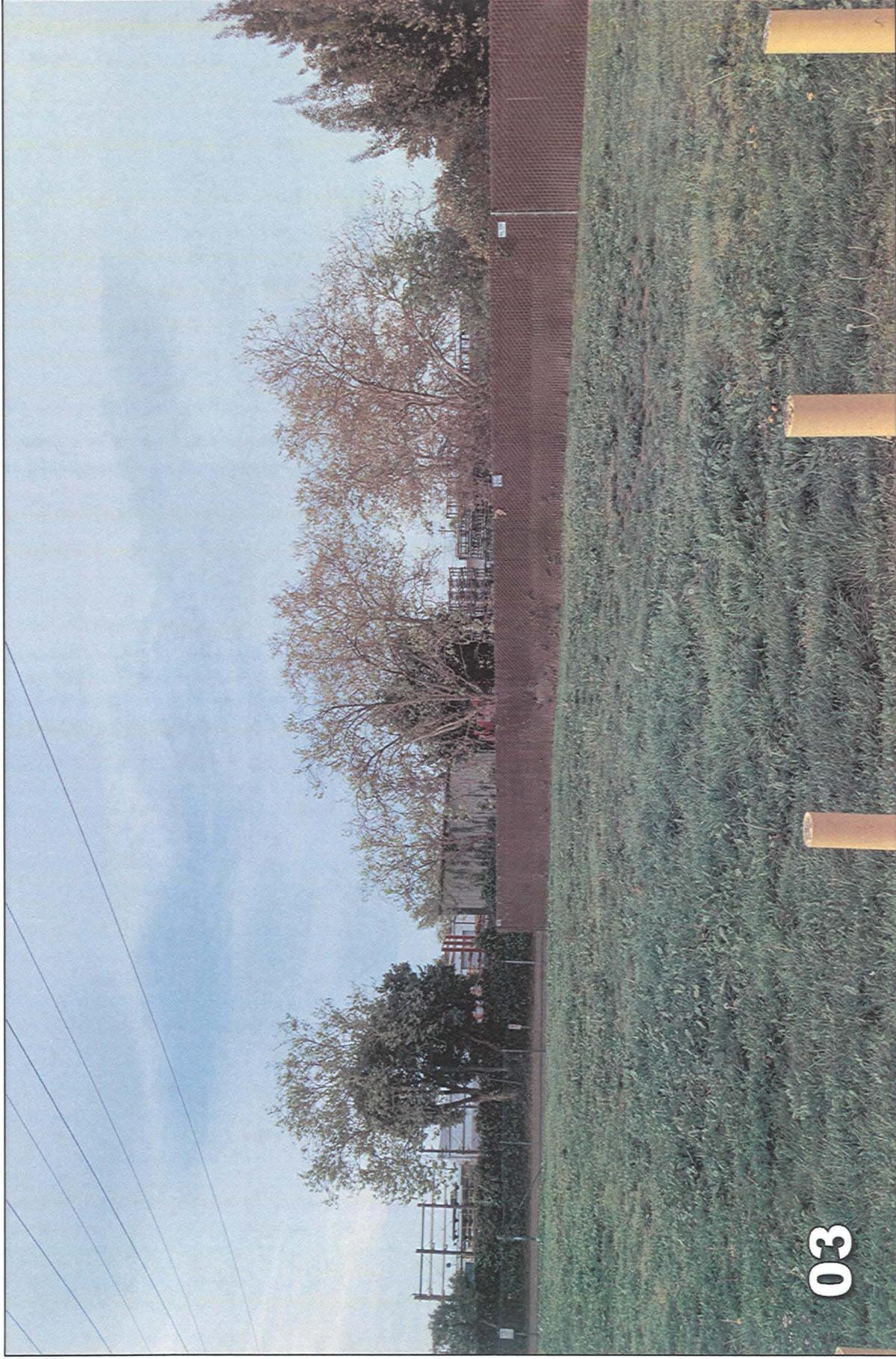


Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)

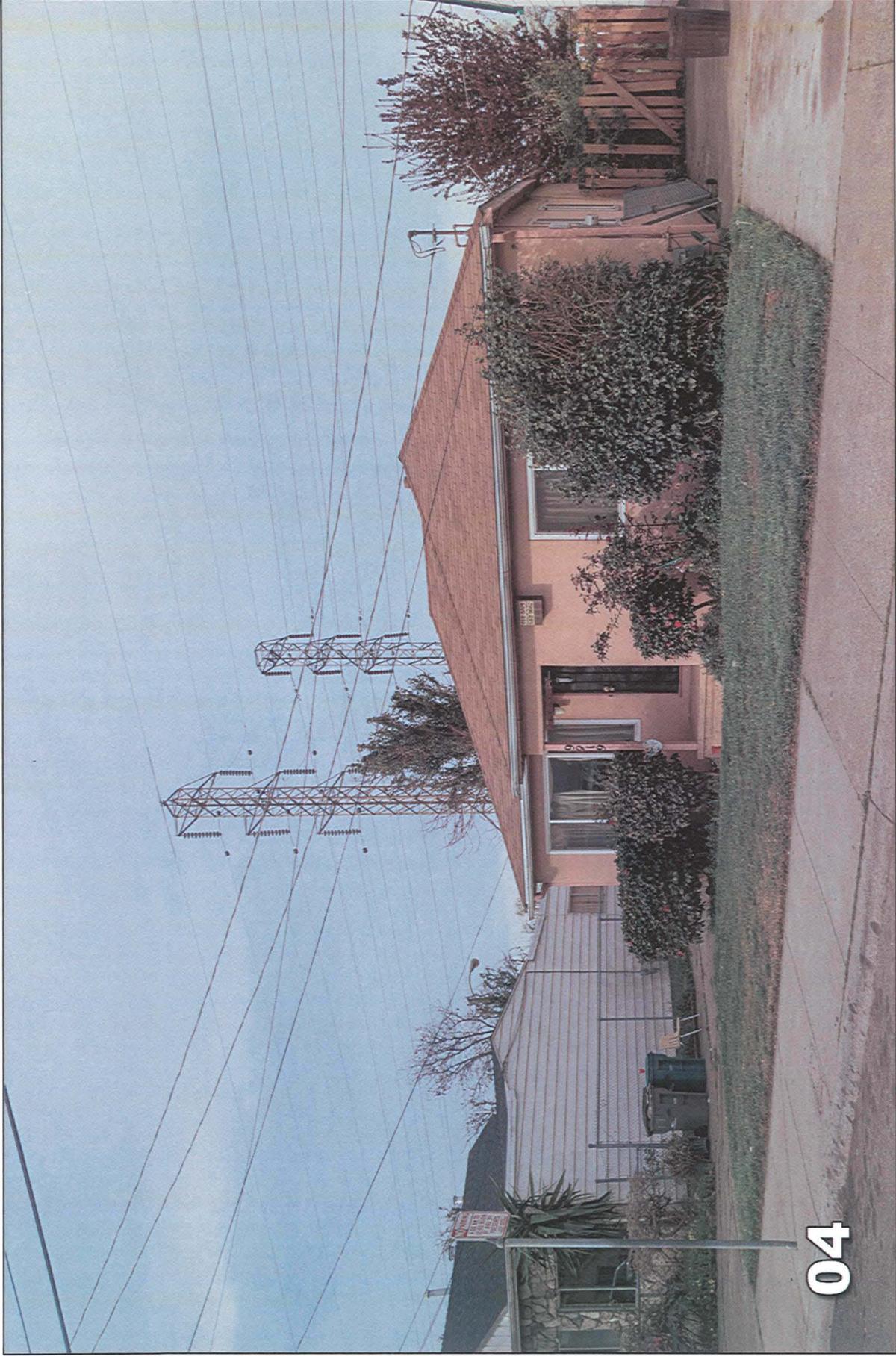


02

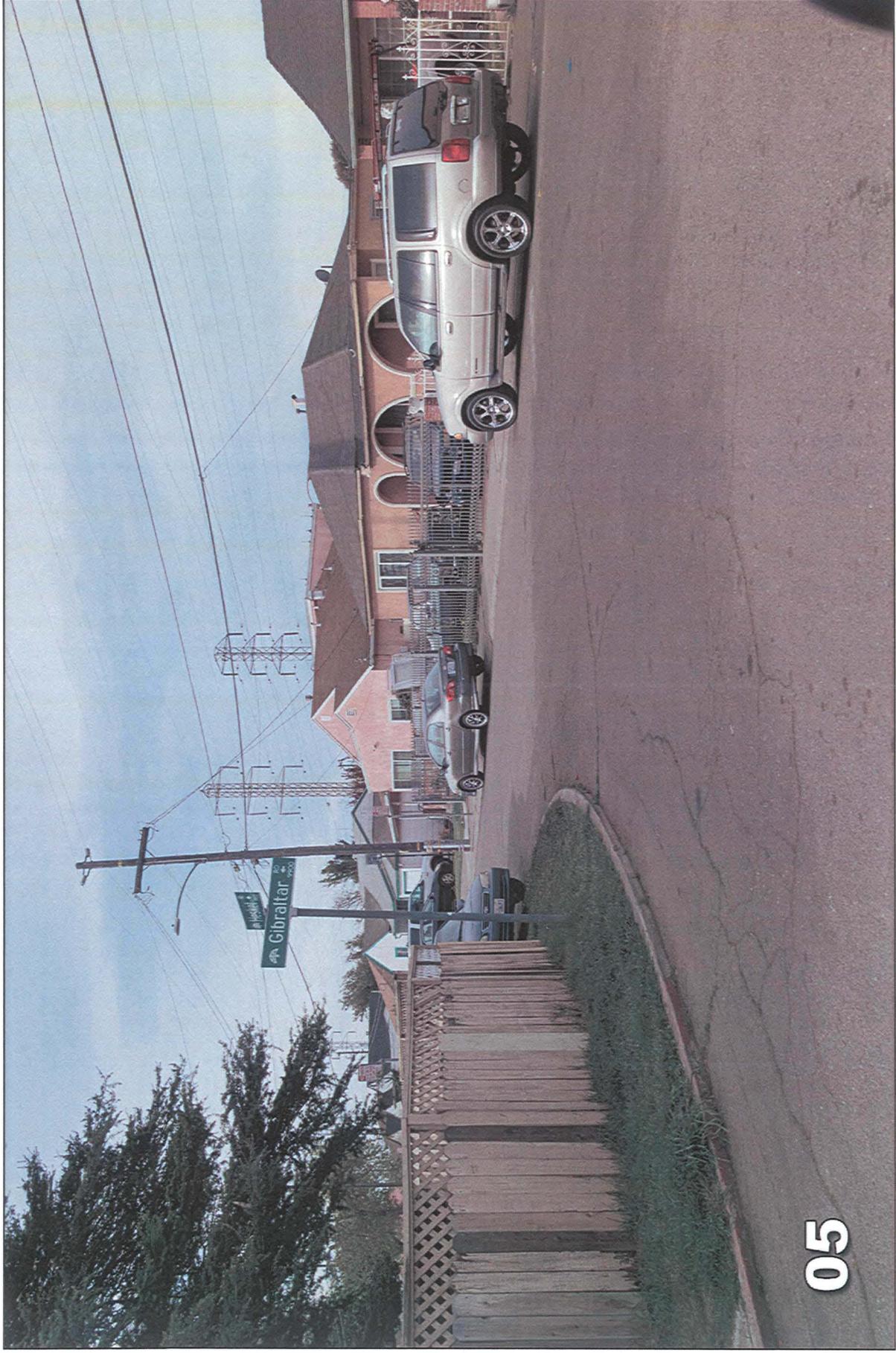
Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)



Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)



Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)



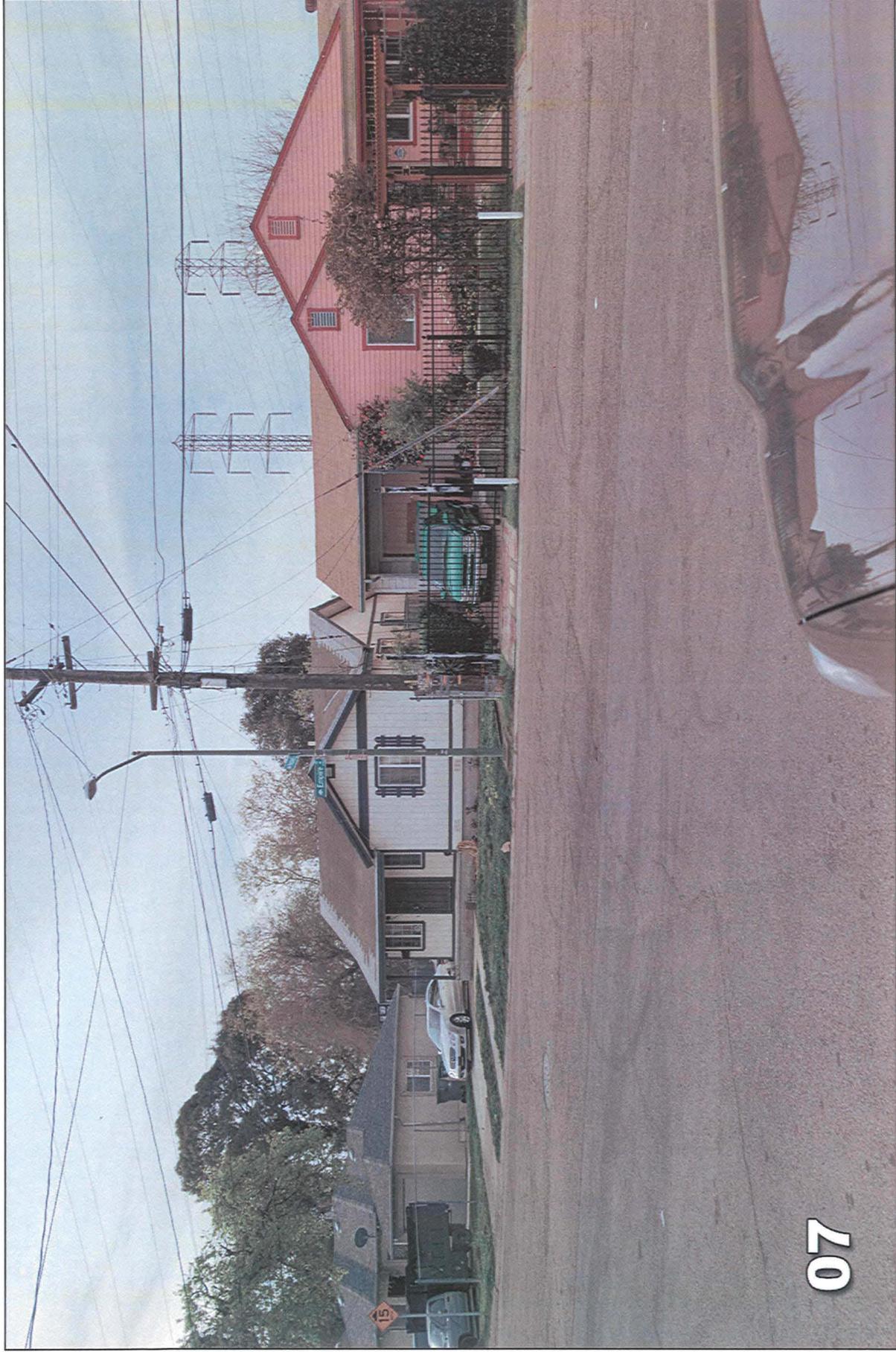
05

Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)

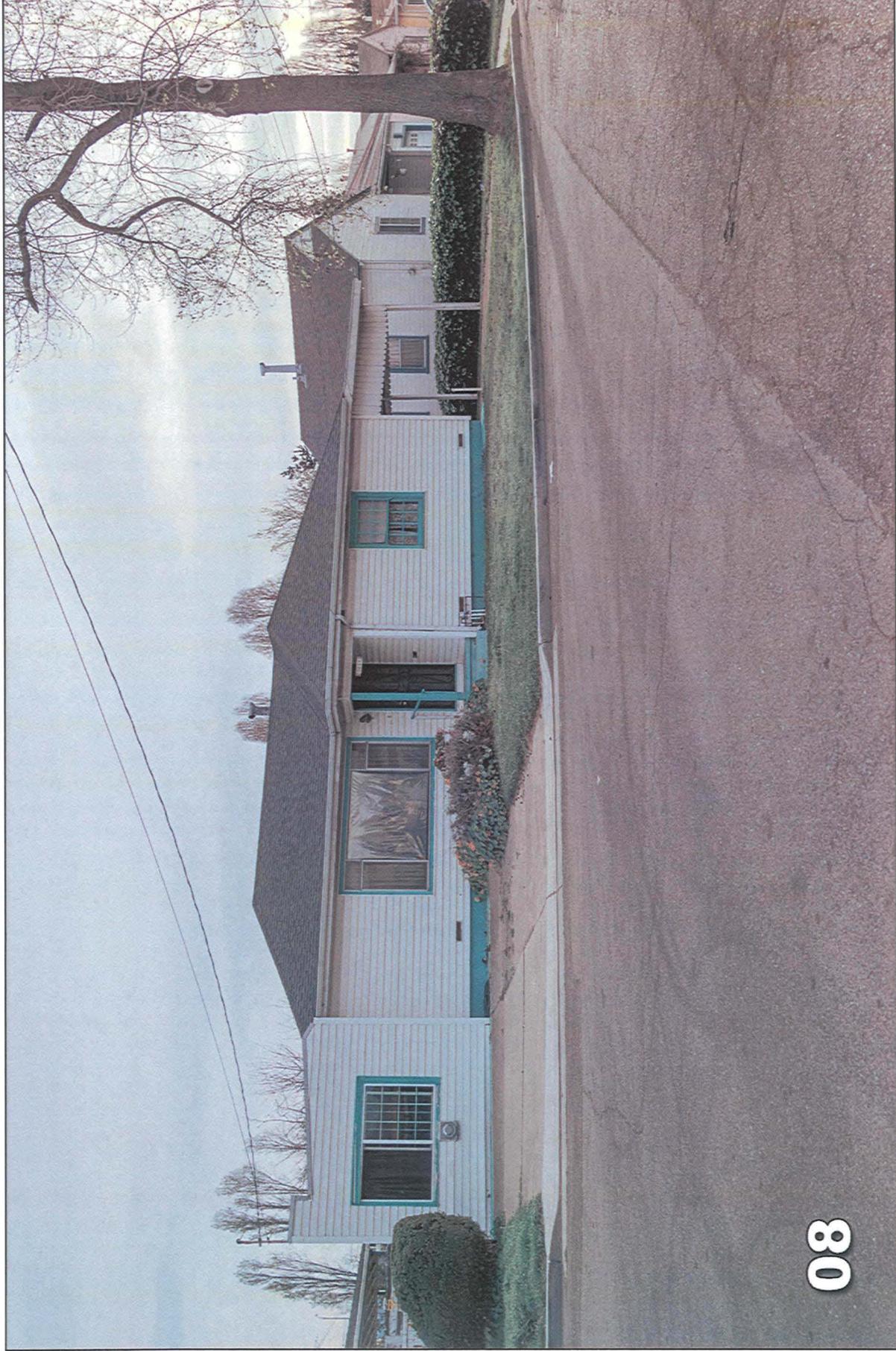


Photos of the Surrounding Area

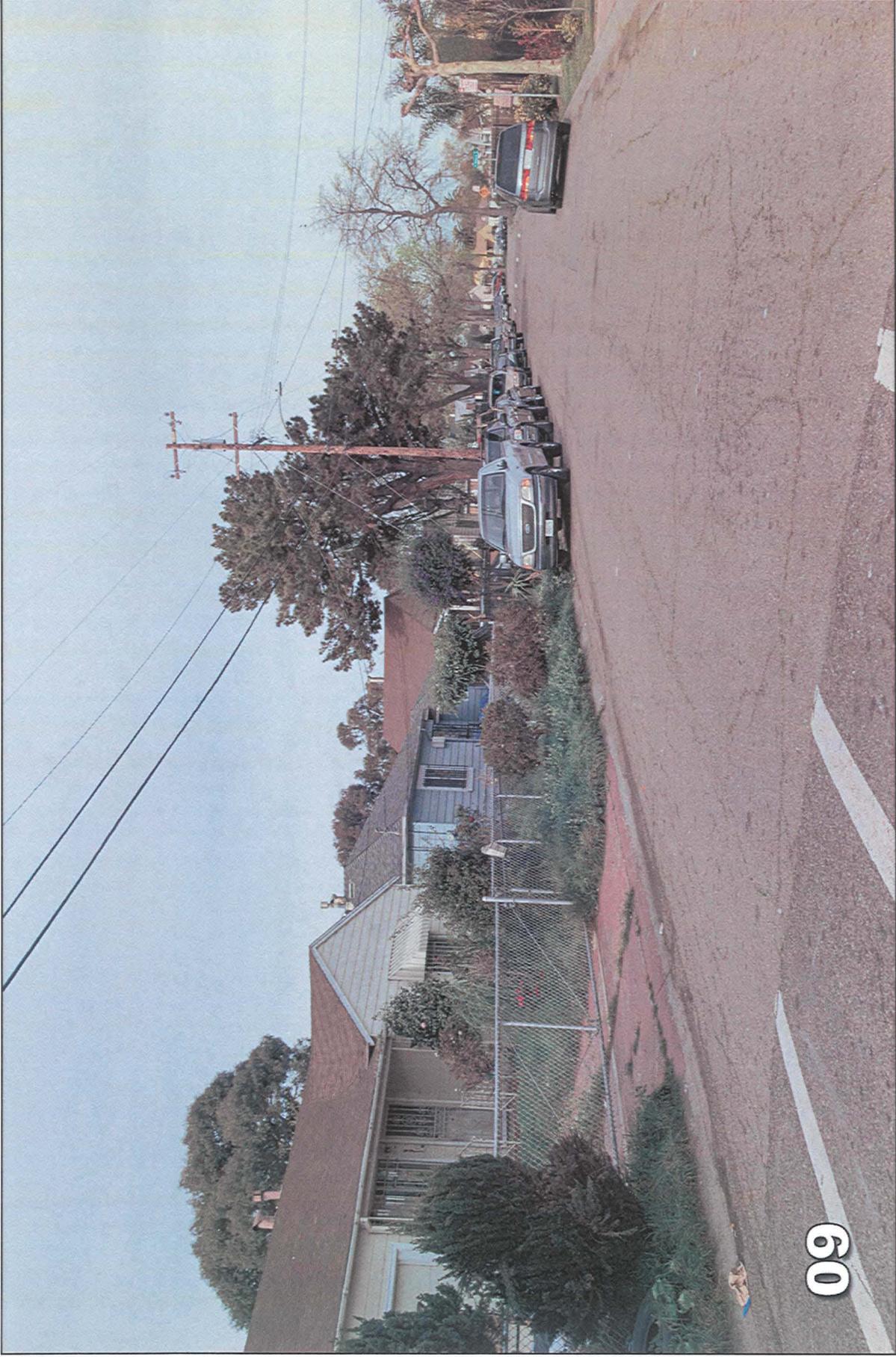
Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)



Verizon Project: "Hwy 880 & 98th"
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Verizon Project: "Hwy 880 & 98th"
Empire Road, Oakland, CA 94603 (APN: 045-5322-030)



Verizon Wireless • Proposed Base Station (Site No. 278707 “Hwy 880 & 98th”) Empire Road • Oakland, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Verizon Wireless, a personal wireless telecommunications carrier, to evaluate the base station (Site No. 278707 “Hwy 880 & 98th”) proposed to be located along Empire Road in Oakland, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Executive Summary

Verizon proposes to install directional panel antennas on a tall PG&E lattice tower located along Empire Road in Oakland. The proposed operation will comply with the FCC guidelines limiting public exposure to RF energy.

Prevailing Exposure Standards

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

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5,000–80,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
BRS (Broadband Radio)	2,600	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

Power line frequencies (60 Hz) are well below the applicable range of these standards, and there is considered to be no compounding effect from simultaneous exposure to power line and radio frequency fields.

General Facility Requirements

Base stations typically consist of two distinct parts: the electronic transceivers (also called “radios” or “channels”) that are connected to the traditional wired telephone lines, and the passive antennas that send the wireless signals created by the radios out to be received by individual subscriber units. The



**Verizon Wireless • Proposed Base Station (Site No. 278707 “Hwy 880 & 98th”)
Empire Road • Oakland, California**

transceivers are often located at ground level and are connected to the antennas by coaxial cables. A small antenna for reception of GPS signals is also required, mounted with a clear view of the sky. Because of the short wavelength of the frequencies assigned by the FCC for wireless services, the antennas require line-of-sight paths for their signals to propagate well and so are installed at some height above ground. The antennas are designed to concentrate their energy toward the horizon, with very little energy wasted toward the sky or the ground. This means that it is generally not possible for exposure conditions to approach the maximum permissible exposure limits without being physically very near the antennas.

Computer Modeling Method

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

Site and Facility Description

Based upon information provided by Verizon, including zoning drawings by MST Architects, Inc., dated February 17, 2015, it is proposed to install six Amphenol Model HEX458CW0000 directional panel antennas on the existing 75½-foot PG&E lattice tower sited along the north side of Empire Road, between Koford and Heskett Roads, in Oakland. The antennas would be mounted with no downtilt at an effective height of about 70 feet above ground and would be oriented in pairs toward 40°T, 160°T, and 280°T, to provide service in all directions. The maximum effective radiated power in any direction would be 7,790 watts, representing simultaneous operation at 2,920 watts for AWS, 2,780 watts for PCS, and 2,290 watts for 700 MHz service; no operation on cellular frequencies is presently proposed from this site. There are reported no other wireless telecommunications base stations at the site or nearby.

Study Results

For a person anywhere at ground, the maximum RF exposure level due to the proposed Verizon operation is calculated to be 0.010 mW/cm², which is 1.1% of the applicable public exposure limit. The maximum calculated level at the second-floor elevation of any nearby building* is 1.5% of the

* Located at least 70 feet away, based on photographs from Google Maps.



**Verizon Wireless • Proposed Base Station (Site No. 278707 "Hwy 880 & 98th")
Empire Road • Oakland, California**

public exposure limit. It should be noted that these results include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operation.

No Recommended Mitigation Measures

Due to their mounting locations, the Verizon antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that PG&E already takes adequate precautions to ensure that there is no unauthorized access to its tower and that all authorized personnel receive appropriate training to prevent exposures in excess of the occupational limit.

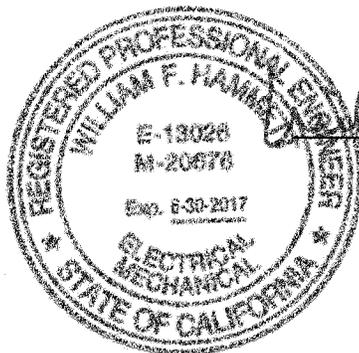
Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by Verizon Wireless along Empire Road in Oakland, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations.

Authorship

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2017. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

October 2, 2015



William F. Hammett
William F. Hammett, P.E.

707/996-5200



RFR.CALC™ Calculation Methodology

Assessment by Calculation of Compliance with FCC Exposure Guidelines

The U.S. Congress required (1996 Telecom Act) the Federal Communications Commission (“FCC”) to adopt a nationwide human exposure standard to ensure that its licensees do not, cumulatively, have a significant impact on the environment. The maximum permissible exposure limits adopted by the FCC (see Figure 1) apply for continuous exposures from all sources and are intended to provide a prudent margin of safety for all persons, regardless of age, gender, size, or health. Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits.

Near Field.

Prediction methods have been developed for the near field zone of panel (directional) and whip (omnidirectional) antennas, typical at wireless telecommunications base stations, as well as dish (aperture) antennas, typically used for microwave links. The antenna patterns are not fully formed in the near field at these antennas, and the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) gives suitable formulas for calculating power density within such zones.

For a panel or whip antenna, power density $S = \frac{180}{\theta_{BW}} \times \frac{0.1 \times P_{net}}{\pi \times D \times h}$, in mW/cm²,

and for an aperture antenna, maximum power density $S_{max} = \frac{0.1 \times 16 \times \eta \times P_{net}}{\pi \times h^2}$, in mW/cm²,

where θ_{BW} = half-power beamwidth of the antenna, in degrees, and
 P_{net} = net power input to the antenna, in watts,
 D = distance from antenna, in meters,
 h = aperture height of the antenna, in meters, and
 η = aperture efficiency (unitless, typically 0.5-0.8).

The factor of 0.1 in the numerators converts to the desired units of power density.

Far Field.

OET-65 gives this formula for calculating power density in the far field of an individual RF source:

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

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

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

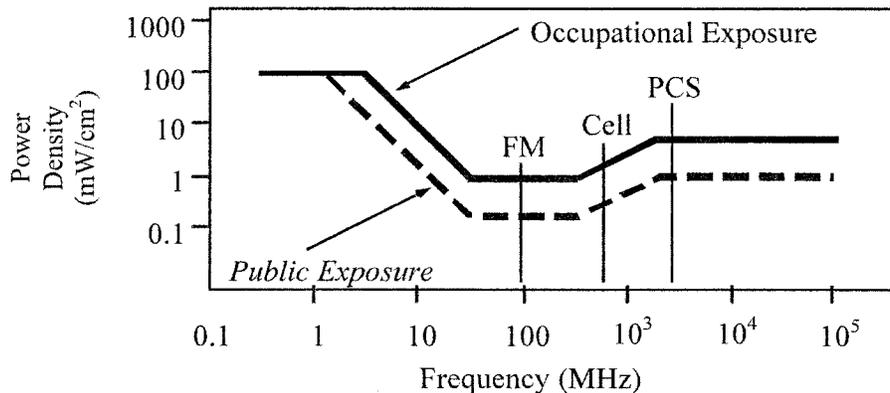


FCC Radio Frequency Protection Guide

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

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

Frequency Applicable Range (MHz)	Electromagnetic Fields (<i>f</i> is frequency of emission in MHz)					
	Electric Field Strength (V/m)		Magnetic Field Strength (A/m)		Equivalent Far-Field Power Density (mW/cm ²)	
0.3 – 1.34	614	<i>614</i>	1.63	<i>1.63</i>	100	<i>100</i>
1.34 – 3.0	614	<i>823.8/f</i>	1.63	<i>2.19/f</i>	100	<i>180/f²</i>
3.0 – 30	1842/f	<i>823.8/f</i>	4.89/f	<i>2.19/f</i>	900/f ²	<i>180/f²</i>
30 – 300	61.4	<i>27.5</i>	0.163	<i>0.0729</i>	1.0	<i>0.2</i>
300 – 1,500	3.54√ <i>f</i>	<i>1.59√f</i>	√ <i>f</i> /106	<i>√f/238</i>	<i>f/300</i>	<i>f/1500</i>
1,500 – 100,000	137	<i>61.4</i>	0.364	<i>0.163</i>	5.0	<i>1.0</i>



Higher levels are allowed for short periods of time, such that total exposure levels averaged over six or thirty minutes, for occupational or public settings, respectively, do not exceed the limits, and higher levels also are allowed for exposures to small areas, such that the spatially averaged levels do not exceed the limits. However, neither of these allowances is incorporated in the conservative calculation formulas in the FCC Office of Engineering and Technology Bulletin No. 65 (August 1997) for projecting field levels. Hammett & Edison has built those formulas into a proprietary program that calculates, at each location on an arbitrary rectangular grid, the total expected power density from any number of individual radio sources. The program allows for the description of buildings and uneven terrain, if required to obtain more accurate projections.



PROJECT SUPPORT STATEMENT VERIZON WIRELESS

Site Name: Hwy 880 & 98th
Location: Empire Road, Oakland, CA 94603
APN: 045-5322-030

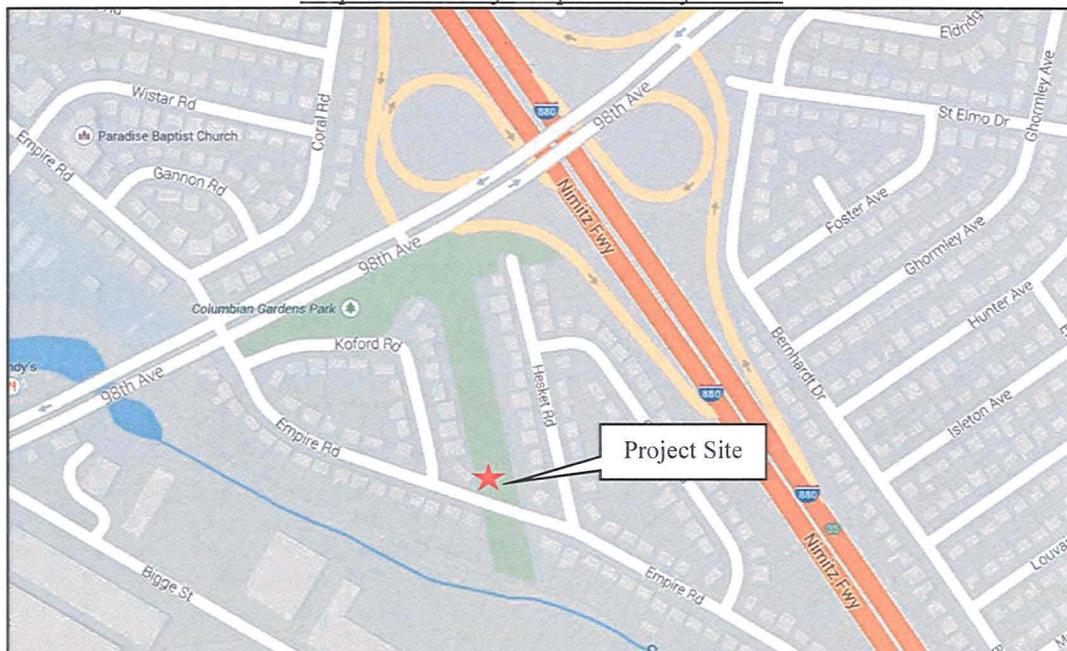
Introduction

Verizon Wireless is seeking to improve communications service to residences, businesses, public services, and area travelers in Oakland, California. Verizon maintains a strong customer base in Oakland as well as Alameda County and strives to improve coverage for both existing and potential customers. The proposed facility is needed to bring better coverage to the vicinity and to help with capacity at Verizon's existing on-air sites of Doolittle, E 14th & 98th, and Hwy 880/Davis.

Location & Design Description

Verizon proposes a new wireless communications facility collocated on an existing 64.3' PG&E transmissions tower on Empire Road, Oakland, CA 94603. The proposed facility is located within the Open Space, Neighborhood Park (OS-NP). The site is entirely surrounded by Detached Unit Residential Zone-1 (RD-1) zones. It will have associated ground equipment, such as an equipment shelter and emergency standby generator, near the base of the existing PG&E tower.

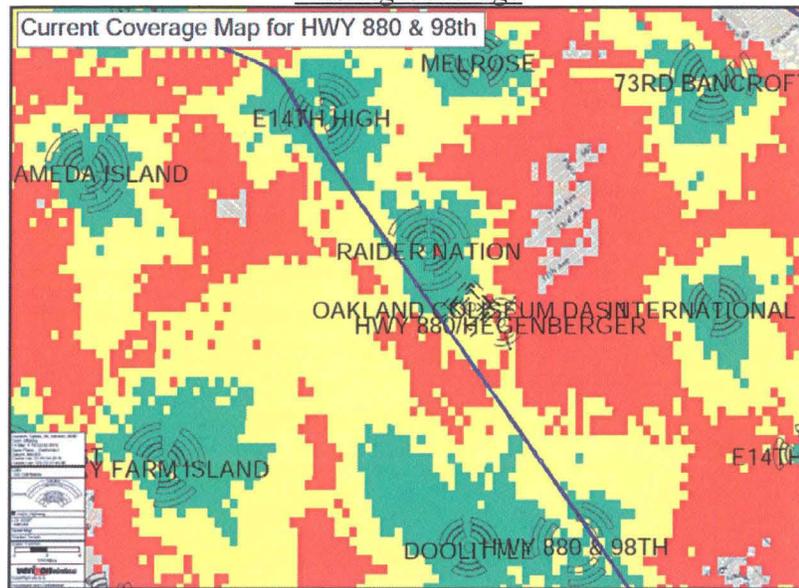
Map Location of Proposed Project Site



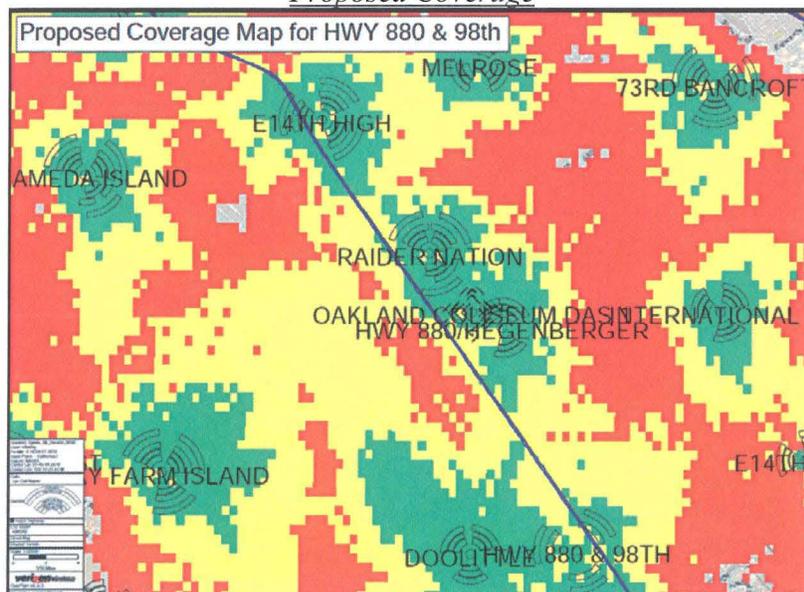
Coverage and Capacity Objectives

The objective of the proposed facility is both to fill a gap in coverage in the Oakland area as well as provide support capacity to the existing overloaded facilities in the City. The coverage maps below visually depict the improved coverage to be provided by the proposed telecommunications site. The first map represents Verizon’s coverage conditions give approval of the proposed telecommunications site. The green areas on both maps represent areas with good indoor/outdoor coverage. The yellow areas on both maps below represent areas with good outdoor coverage only. The red portions of the maps represent areas with poor outdoor coverage.

Existing Coverage



Proposed Coverage



Compliance with City Development Requirements

The choice of a wireless telecommunications facility at this location was made due to a number of factors, taking into account the needs of Verizon’s network and the community values as expressed in the City’s Code. Chapter 17.128 (Telecommunications Regulations); Chapter 17.134 (Conditional Use Permit), and Chapter 17.136 (Design Review).

The proposed collocation on an existing PG&E transmissions tower has been designed to conform with the applicable section of the City’s code and particularly section 17.11.060, which established provisions for conditionally permitted minor activities in the OS zone and 17.28.070, which established guidelines for facilities with six (6) antennas and an equipment shelter, i.e. “Macro Facilities.”

A. Siting, Location and Alternatives

Section 17.128.110 sets forth the City’s preference for siting new wireless facilities in order of preference, with the leading three preferential locations being collocation on an existing structure or facility with existing wireless antennas, city-owned properties or other public or quasi-public facilities, or existing commercial or industrial structures in non-residential zones. Proposed facilities locating in these ranked preferences do not require a site alternatives analysis.

Here, Verizon is collocating on an existing PG&E tower and will be adding (6) antennas to the top of the existing tower. This property is located on a public or quasi-public facility. Additionally, we are collocating on an existing transmissions tower in the vicinity. Because the proposed site achieves the City’s second most ideal location preference of collocating on public or quasi-public facility property, so no site alternatives analysis is provided.

B. Site Design Preferences

Section 17.128.120 establishes an order of preference for design which includes building or structure mounted completely concealed from view as the most preferred with towers as the least preferred. If the site design does not include a building or structure mounted antennas completely concealed from view or set back from the roof edge, then a site alternatives analysis is required.

Here, the proposed collocation involves structure mounted antennas above the roof line and visible from the public right-of-way. Section 17.128.120 (D) (Site Design Preference). A site design alternatives analysis on why the three (3) more preferred designs could not be used is below.

a. Building or Structure Mounted Antennas Completely Concealed from View.

Here, the structure on which Verizon is mounting its antennas is an existing 64.3’ tall PG&E transmissions tower. Because of the shape of the existing tower, the addition of Verizon’s proposed antennas to the monopole is impossible to completely conceal from public view. Furthermore, lattice-style of the PG&E tower does not provide any concealment. Due to the nature of the tower structure, the proposed Verizon antennas cannot fulfill this design preference.

- b. Building or Structure Mounted Antennas set back from roof edge, not visible from public right-of-way.*

Similar to above, due to the contours of the existing tower, it is impossible to completely conceal Verizon’s proposed antennas from public view. Additionally, there is no roof edge or set back area available for the proposed antennas on a transmissions tower. Due to the nature and structure of the tower, the proposed Verizon antennas cannot fulfill this design preference.

- c. Building or structure mounted antennas below roofline (façade mount, pole mount) visible from public right-of-way, painted to match existing structure.*

This requirement is not applicable because Verizon is adding an additional 10’ to the existing tower. However, taking into account the shape of the existing tower, there is no feasible way to conceal the proposed antennas from public view without disturbing the existing PG&E facility.

C. General Development for Macro Facilities

Section 17.128.070 (A) provides general development standards for macro facilities.

- a. The Macro Facilities shall be located on existing building, poles or other existing support structures, or shall be post mounted.*

This requirement is met here since the proposed facility will be located on an existing 64.3’ PG&E tower on Empire Road.

- b. The equipment shelter or cabinet must be concealed from public view or made compatible with the architectures of the surrounding structures or placed underground. The shelter or cabinet must be regularly maintained.*

Verizon’s equipment is located within an 11’-6” x 16’-10.5” pre-fabricated equipment shelter and concealed from public view. The shelter is further concealed from view by a proposed concrete masonry unit (CMU) wall with metal access gates. Accordingly, Verizon’s facility conforms to this requirement and a Verizon technician will visit 1-2 times a month for routine maintenance.

- c. Macro Facilities may exceed the height limitation specified for all zones but may not exceed fifteen (15) feet above the roof line or parapet.*

The proposed facility will add a 10’ tall top hat to the existing tower’s height in order to achieve Verizon’s coverage objectives.

- d. *Ground post mounted Macro Facilities must not exceed seventeen (17) feet to the top of the antenna.*

This requirement is not applicable. The proposed structure is not ground post mounted.

- e. *The applicant shall submit written documentation demonstrating that the emissions from the proposed project are within the limits set by the FCC.*

All emissions from the proposed project are within the limits set by FCC. Please see attached Radio Frequency study prepared by independent licensed engineering firm, Hammet & Edison, Inc. Verizon has also agreed and complied with the RF emissions standards set forth in section 17.128.130.

D. Regular Design Review Criteria for Nonresidential Facilities.

- a. *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 results 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 has some significant relationship to outside appearance shall be considered, except as otherwise provided in Section 17.136.060.*

Verizon’s proposed facility will be collocated on an existing PG&E transmissions tower, located on a parcel within the OS-NP zoning designation. The OS zone is intended to create, preserve, and enhance land for permanent open space to meet the recreational needs of Oakland’s residents and to promote park uses. Taking this into account, Verizon looked to existing structures for collocation purposes.

Here, Verizon has taken these factors into account and is in compliance with these requirements by choosing the City’s second most preferred site design preference by locating on an existing transmissions tower on public or quasi-public facilities. Please see Site Design Preference above.

- b. *That the proposed design will be of quality and character which harmonizes with, and serves to protect the value of, private and public investments in the area.*

Verizon’s antennas are located on an existing PG&E transmissions tower. Verizon’s antennas will be located on top of the 10’ extension to the tower. Additionally, the facility has been designed to enhance capacity and coverage to the area, harmonize with the use of the existing tower, and the nature and character of the area. Please see Photosimulations for additional detail.

- c. *That the proposed design conforms in all significant respect 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 Proposed Facility provides an important community benefit to this commercial and residential area of the city and in a manner that confirms with the City's General Plan as well as the Telecommunications and Design Review codes. A finding that this criteria is satisfied is appropriate. Please see Project Support Statement.

E. Additional Design Review Criteria for Macro Facilities.

Section 17.128.070 (B) provides general development standards for macro facilities.

- a. *Antennas should be painted and/or textured to match the existing structure.*

Verizon’s proposed antennas painted to match the exterior of the existing tower. Please see Site Plans for additional information.

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

This requirement is not applicable.

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

The proposed antennas will be mounted onto a 10’ extension to an existing tower and will incorporate the vertical design elements of the tower to help in camouflaging. Please see Photosimulations for more detail.

- d. *Equipment shelters or cabinets shall be screen from public view by using landscaping, or materials and colors consistent with surrounding backdrop or place underground or inside existing facilities or behind screening fences.*

Verizon’s equipment shelter will be concealed from public view by placing it behind a CMU wall next to the base of the existing tower. All ground equipment will be contained within the locked equipment shelter. Verizon is compliant with this requirement.

- e. *Equipment shelters or cabinets shall be consistent with the general character of the area.*

Verizon’s equipment cabinets are located within an 11’-6” x 16’-10.5” pre-fabricated equipment shelter, which is concealed from public view by placing it behind a CMU wall next to the base of the existing tower.

- f. *For antennas attached to the roof, maintain a 1:1 ratio for equipment setback.*

This requirement is not applicable.

- g. *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-claiming measures and anti-tampering devices.*

Public access to the proposed site’s antennas and equipment is completely restricted. This is an unmanned facility with no public access to Verizon’s equipment or antennas which will be accessible only to authorized personnel. A Verizon technician will visit 1-2 times per month for routine maintenance. Verizon’s equipment shelter will be surrounded by CMU wall with metal access gates. Please see section (d) and (e) for additional information.

F. RF Emissions Standards

An RF report has been prepared by independent licensed engineering firm Hammett & Edison, Inc. demonstrating that the Verizon facility has been designed to comply with FCC requirements. Additionally, Verizon agrees to additional RF study and reporting requirements for the facility set forth in section 17.128.130 (b)-(c).

Safety Benefits of Improved Wireless Service

Verizon offers its customers multiple services such as voice calls, text messaging, mobile email, picture/video messaging, mobile web, navigation, broadband access, V CAST, and E911 services. Mobile phone use has become an extremely important tool for first responders and serves as a back-up system in the event of a natural disaster. Verizon will install a standby generator at this telecommunications site to ensure quality communication for the surrounding community in the event of a natural disaster or catastrophic event. This generator will be fully contained within the equipment shelter and will provide power to the telecommunications site in the event that local power systems are offline.

Standby Generator Testing

Verizon Wireless installs a standby generator and batteries at all of its cell sites. The generator and batteries serve a vital role in Verizon Wireless’ emergency and disaster preparedness plan. In the event of a power outage, Verizon Wireless’ communications equipment will first transition over to the backup batteries. The batteries can run the site for a roughly 8 hours, depending upon the demand placed upon the equipment. Should the power outage extend beyond

the capacity of the batteries, the backup generator will automatically start and recharge the batteries. This two state backup plan is an extremely important component of every Verizon Wireless communications site.

As one of the nation’s largest wireless companies, Verizon Wireless is the mobile phone service of choice to many Federal, State, and Local public safety agencies. While many public safety agencies employ their own two-way radio systems for intra-agency communications, Verizon Wireless phones are often the link to other agencies and the outside world. Backup batteries and generators allow Verizon Wireless’ communications sites to continue providing valuable communications services in the event of a power outage, natural disaster or other emergency.

Operations & Maintenance

Visitation to the site by a service technician for routine maintenance typically occurs on an average of once per month. The proposed site is entirely self-monitored and connected directly to a central office where sophisticated computers alert personnel to any equipment malfunction. Because the wireless facility is unmanned, there is no regular hours of operation and no impacts to existing local traffic patterns. No water or sanitation services will be required.

Compliance with FCC Standards

Verizon Wireless complies with all FCC rules governing construction requirements, technical standards, interference protection, power and height limitations and radio frequency standards. In addition, Verizon complies with all FAA rules on site location and operation.

Notice of Actions Affecting This Development Permit

In accordance with California Government Code Section 65945(a), Verizon Wireless requests notice of any proposal to adopt or amend the: general plan, specific plan, zoning ordinance, ordinance(s) affecting building or grading permits that would in any manner affect this development permit. Any such notice may be sent to 2009 V Street, Sacramento, CA 95818.

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

During the candidate review process, Verizon first looked for collocation opportunities within the Search Ring. This particular search ring does not provide a feasible collocation opportunities to fulfill Verizon’s coverage objectives since there are no tall structures with existing wireless antennas available in the area.

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

The search ring is located in an area that is predominantly zoned RD-1 with two smaller areas that are zoned OS-CP and OS-NP. Here, this particular area has a series of PG&E transmission towers that cut through the residential neighborhood. Additionally, as a public facility, PG&E’s structures are a highly favorable location for telecommunications facilities.

c. Existing commercial or industrial structures in non-residential zones (excluding all HBX Zones and the D-CE-3 and D-CE-4 Zones).

This entire search ring is residential zones except for the two open space parcels.

d. Existing commercial or industrial structures in residential zones, HBX Zones or the D-CE-3 or D-CE-4 Zones).

This area does not have commercial or industrial structures within the search ring that would satisfy Verizon’s requirements. The only existing industrial structures are the PG&E towers that crisscross through the neighborhood.

Investigation outside the Search Ring

In an attempt to keep from investigating and disturbing residentially zoned properties and nearby houses, commercial properties along Bigge Street were investigated as possible candidates for both rooftop and new tower construction even though they are located south of the edges of the search ring provided by Verizon’s RF engineer.

Other properties that were investigated:

1. SBA Monopole, 10700 Bigge Street, Oakland, CA (APN: 077A-0745-041-01)

This parcel is zoned RD-1 and is an existing SBA telecommunications facility with a 52’ tall monopole. According to Verizon’s RF engineer, no antennas could go above the 42’ centerline without interference, and would not meet coverage objectives at that height. Therefore, Verizon requested SBA raise the tower to accommodate its needs. However, the compound and tower structure is constructed on raised blocks and raising the tower would not pass a structural analysis. In addition, the underlying property owner, Bigge Crane & Rigging was not open to the addition of another provider entering and exiting their property.

2. Bigge Development Company, Bigge Street Properties LLC

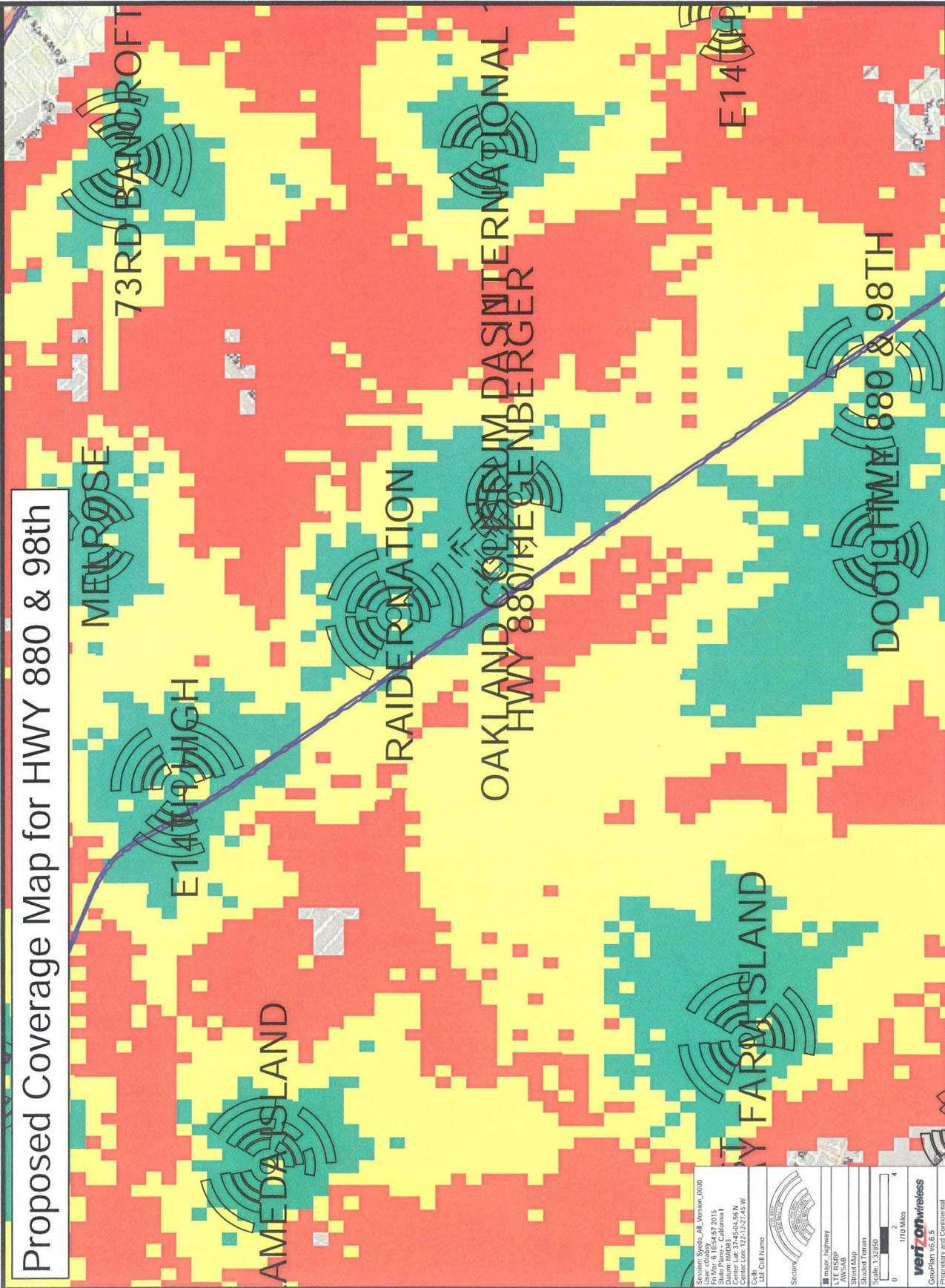
This property owner has multiple parcels along Bigge Street, zoned RD-1, with PG&E towers running along it. Verizon, through communications with PG&E, reached out to Bigge. The property owner here notified Verizon that it does not have any interest in allowing telecommunications onto its tenants’ properties.

3. Stuart Corvin, CSEB Properties, 31 Bigge Street, Oakland, CA (APN: 077A-0745-030)
No response from landowners after repeated attempts at communication via mail and physical visit.
4. Penske Truck Leasing, 10755 Bigge Street, Oakland, CA (APN: 077A-0745-029-45-6)
No response from landowners after repeated attempts at communication via mail and physical visit.

Conclusion

The Proposed Facility location and design represents a thorough and responsible investigation of alternative sites and co-location possibilities performed over the last few months. After an exhaustive review of the available properties and the applicable zoning law, Verizon has determined that the proposed site is the best available location for a wireless telecommunications facility to meet the coverage objective.

Proposed Coverage Map for HWY 880 & 98th



Service: Sprint_AL_Versim_0000
File: 1054572015
State: Phoenix, California
Center Lat: 37-45-45.56 N
Center Lon: 122-12-27.45 W
UTM Cell Name

Scale: 1:32800
1170 Miles
0 1 2 3 4

verizonwireless
GeoPrint v6.0.5
Proprietary and Confidential

Environmental Noise Analysis

Hwy 880 & 98th Cellular Facility

Oakland, California

BAC Job # 2015-051

Prepared For:

Complete Wireless Consulting

Attn: Ms. Kim Le
2009 V Street
Sacramento, CA. 95818

Prepared By:

Bollard Acoustical Consultants, Inc.



Paul Bollard, President

November 17, 2015



Introduction

The Highway 880 & 98th Avenue Verizon Wireless Unmanned Telecommunications Facility Project (project) proposes the installation antennas on an existing PG&E transmission tower and the installation of outdoor equipment cabinets and an emergency diesel standby generator located within APN 045-5322-030 in Oakland, California. The outdoor equipment cabinets and the emergency diesel standby generator have been identified as primary noise sources associated with the project. Please see Figure 1 for the general site location. The studied site design is dated October 1, 2015.

Bollard Acoustical Consultants, Inc. has been contracted by Complete Wireless Consulting, Inc. to complete an environmental noise assessment regarding the proposed project cellular equipment operations. Specifically, the following addresses daily noise production and exposure associated with operation of the project emergency generator and outdoor equipment cabinets.

Please refer to Appendix A for definitions of acoustical terminology used in this report. Appendix B illustrates common noise levels associated with various sources.

Criteria for Acceptable Noise Exposure

City of Oakland Municipal Code

Chapter 17.120.050 of the City of Oakland Municipal Code provides the performance standards applicable to this project as shown below in Table 1 (Table 17.120.01 of Municipal Code). The City of Oakland requires that the noise level standards set forth in Table 1 be applied at the property line of the receiving residential land use.

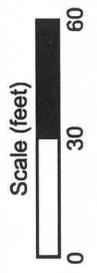
Cumulative Number of Minutes in Either the Daytime or Nighttime One Hour Time Period	Statistical Descriptor	Noise Level, dB	
		Daytime (7 a.m.-10 p.m.)	Nighttime (10 p.m.-7 a.m.)
20	L ₃₃	60	45
10	L ₁₆	65	50
5	L ₈	70	55
1	L ₂	75	60
0	L _{max}	80	65

Source: City of Oakland Municipal Code, Chapter 17.120.050, Table 17.120.01

Figure 1
 Proposed Cellular Equipment Lease Area and Distances to Nearest Residential Property Lines
 Highway 880 & 98th Cellular Facility - Oakland, California



- Legend**
- Nearest Noise-Sensitive Receivers
 - Proposed Equipment Shelter
 - Proposed Standby Diesel Generator
 - Proposed 8-foot Tall CMU Wall Enclosure



Project Noise Generation

As discussed previously, there are two project noise sources which are considered in this evaluation; the equipment cabinet cooling systems and the emergency generator. The evaluation of potential noise impacts associated with the operation of each noise source is evaluated separately as follows:

Equipment Cabinet Noise Sources and Reference Noise Levels

The project proposes the installation of two equipment cabinets within the lease area illustrated on Figure 1. Specifically, the cabinets assumed for the project are one Charles Industries 48V Power Plant and one miscellaneous cabinet cooled by a McLean Model T-20 air conditioner. The cabinets and their respective reference noise levels are provided below in Table 2. The manufacturer's noise level data specification sheets for the proposed equipment cabinets are provided as Appendix C.

Table 2			
Reference Noise Level Data of Proposed Equipment Cabinets			
Equipment	Number of Cabinets	Reference Noise Level, dB	Reference Distance, feet
Charles Industries 48V Power Plant	1	60	5
McLean T-20	1	66	5
Notes: Manufacturer specification sheets provided as Appendix C.			

Generator Noise Sources and Reference Noise Levels

A Generac Industrial Power Systems Model SD030 is proposed for use at this facility to maintain cellular service during emergency power outages. The site plans indicate that the generator, located within the same lease area as the equipment cabinets, will be equipped with the Level 2 Acoustic Enclosure resulting in a reference noise level of 68 dB at 23 feet. The manufacturer's noise level data specification sheet for the proposed generator is provided as Appendix D.

The generator which is proposed at this site would only operate during emergencies (power outages) and brief daytime periods for periodic maintenance/lubrication. According to the project applicant, testing of the generator would occur twice per month, during daytime hours, for a duration of approximately 15 minutes. The emergency generator would only operate at night during power outages. It is expected that nighttime operation of the project emergency generator would be exempt from the City's exterior noise exposure criteria due to the need for continuous cellular service provided by the project equipment.

Predicted Facility Noise Levels at Nearest Residential Property Lines

As indicated in Figure 1, the project equipment maintain a separation of 35 and 70 feet from the nearest residential property lines to the west and east, respectively. Assuming standard

spherical spreading loss (-6 dB per doubling of distance), project-equipment noise exposure at the closest residential property lines was calculated and the results of those calculations are presented in Table 3. The predicted equipment noise levels presented below in Table 3 take consideration the screening provided by the proposed 8-foot tall CMU wall enclosing the project equipment. Barrier insertion loss calculation worksheets are provided as Appendix E.

Table 3 Project-Related Noise Exposure at Nearest Residential Property Lines Hwy 880 & 98th Verizon Wireless Telecommunications Facility Project			
Nearest Receiver ¹	Distance from Cellular Equipment (feet)	Predicted Noise Levels, (dBA) ²	
		Equipment Cabinets, (L ₃₃)	Generator, (L ₃₃)
1	35	41	55
2	70	35	48

Notes:

¹ Receiver locations are shown on Figure 1.

² Predicted equipment noise levels take into consideration the attenuation provided by the proposed 8-foot tall CMU noise barrier. Barrier insertion loss calculation worksheets are provided as Appendix E.

The equipment cabinets were conservatively assumed to be in operation for the duration of an hour during nighttime hours. According to the City of Oakland Municipal Code (Table 1), the corresponding noise level standard given an hour of *nighttime* operation would be 45 dB L₃₃. As shown in Table 3, the predicted equipment cabinet noise levels of 35-41 dB L₃₃ at the nearest residential property lines would satisfy the City of Oakland 45 dB L₃₃ nighttime noise level standard. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of the project.

Project representatives have indicated that the proposed generator would be in operation for routine testing and maintenance twice a month during *daytime* hours for no more than 15 minutes. The corresponding noise level standard given less than 15 minutes of operation during *daytime* hours would be 60 dB L₃₃. As shown in Table 3, the predicted generator noise levels at the nearest residential property lines of 48-55 dB L₃₃ would satisfy the City of Oakland 60 dB L₃₃ daytime noise level standard. As a result, no further consideration of noise mitigation measures would be warranted for this aspect of the project.

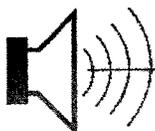
Conclusions

Based on the equipment noise level data and analyses presented above, project-related equipment noise exposure is expected to satisfy the applicable City of Oakland noise exposure limits at the nearest residential property lines. As a result, no additional noise mitigation measures would be warranted for this project.

This concludes our environmental noise assessment for the proposed Highway 880 & 98th Avenue Cellular Facility in the City of Oakland, California. Please contact BAC at (916) 663-0500 or paulb@bacnoise.com with any questions or requests for additional information.

Appendix A Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz.
L_{dn}	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
L_{max}	The highest root-mean-square (RMS) sound level measured over a given period of time.
Loudness	A subjective term for the sensation of the magnitude of sound.
Masking	The amount (or the process) by which the threshold of audibility is for one sound is raised by the presence of another (masking) sound.
Noise	Unwanted sound.
Peak Noise	The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the Maximum level, which is the highest RMS level.
RT₆₀	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 sabin.
SEL	A rating, in decibels, of a discrete event, such as an aircraft flyover or train passby, that compresses the total sound energy of the event into a 1-s time period.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.

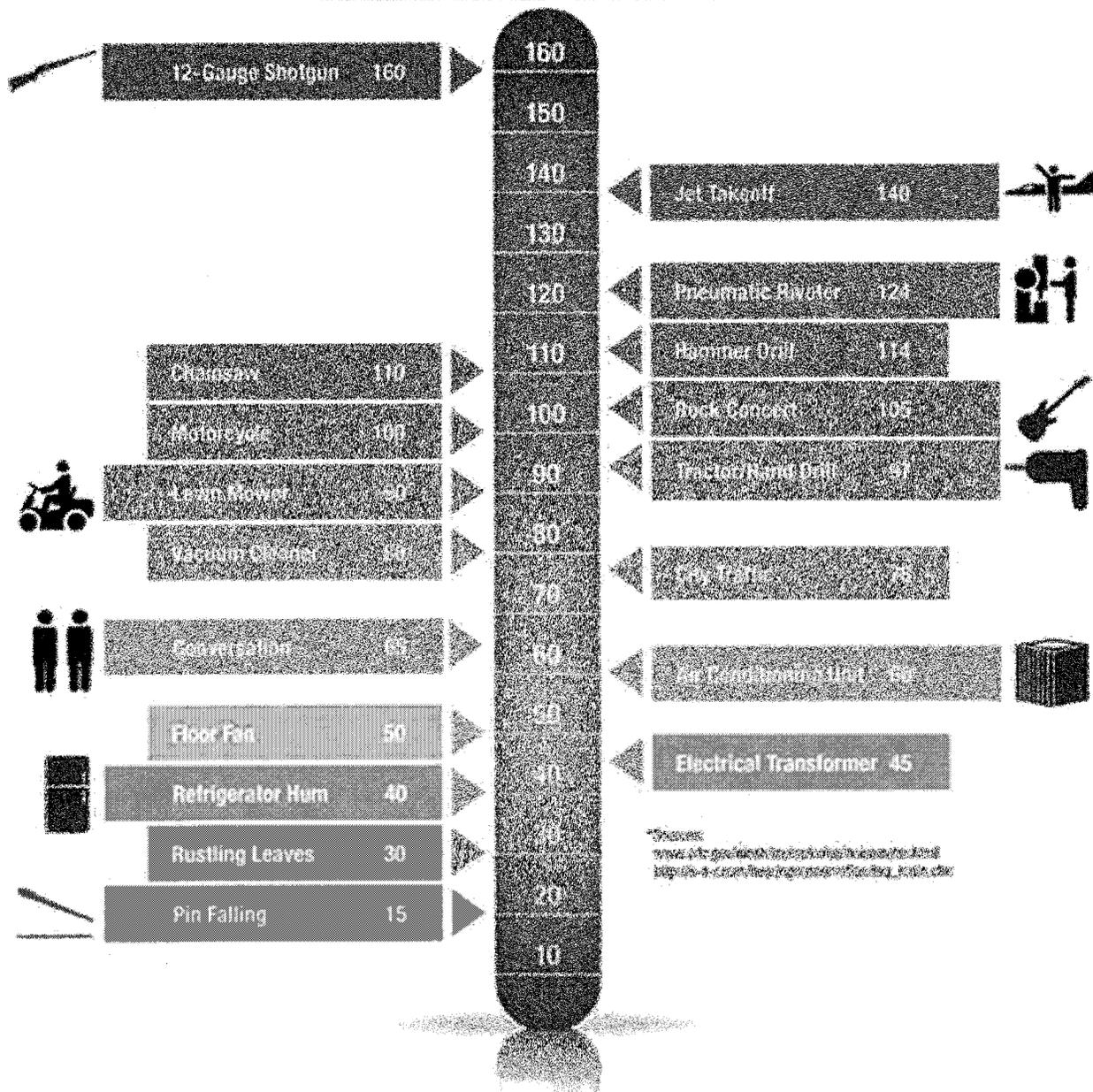


BOLLARD

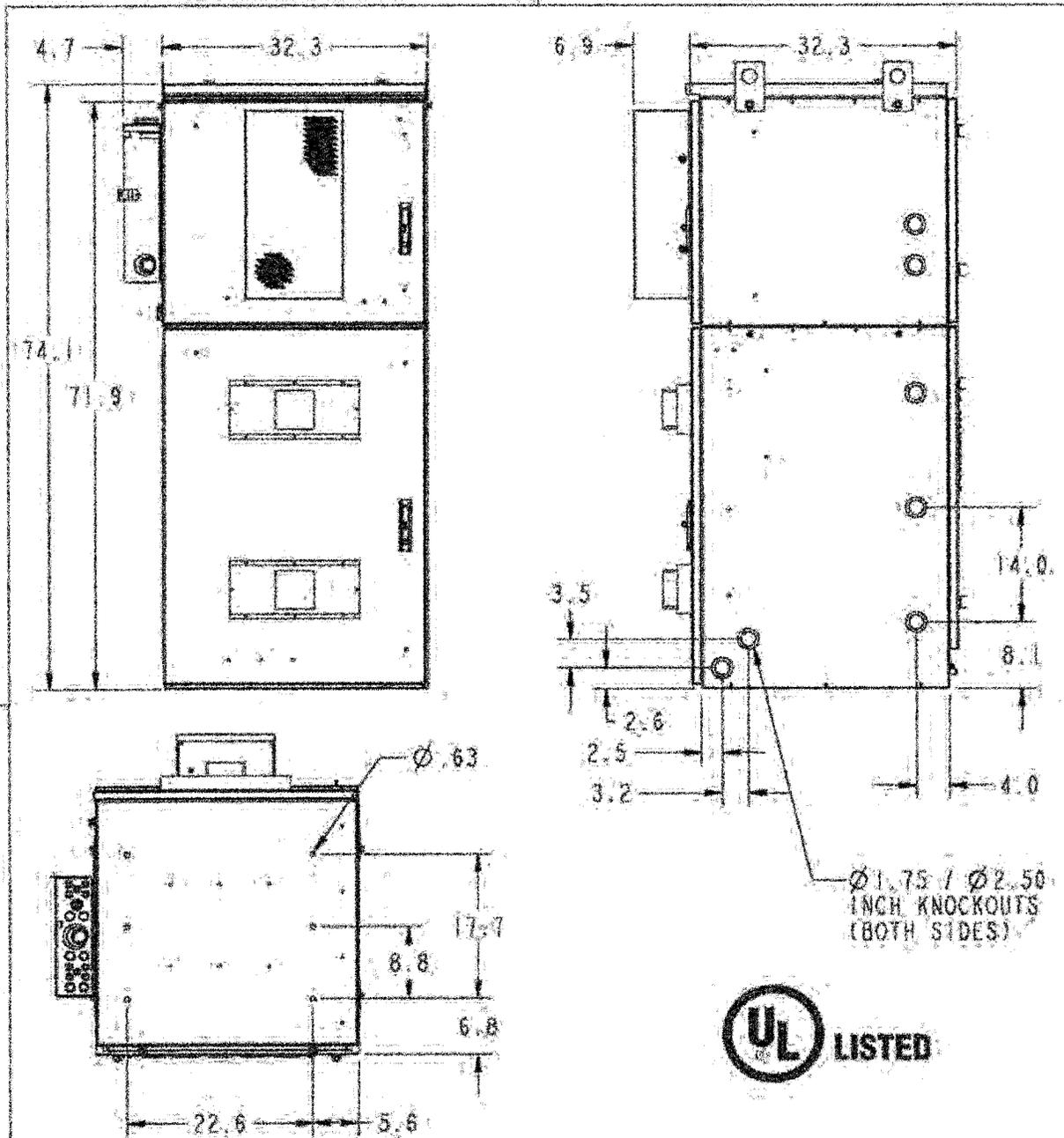
Acoustical Consultants

Appendix B

Typical A-Weighted Sound Levels of Common Noise Sources Decibel Scale (dBA)*



Appendix C-1



WEIGHT WITH BATTERIES:
2296 LBS.

NorthStar NSB-170FT batteries
at 126 lbs each, Qty 12

WEIGHT WITHOUT BATTERIES:
760 LBS.

MAX NOISE LEVEL:
55-60dB

CHARLES PART #
CUBE-SS4C215XC1

Charles
Charles Industries Ltd.
Telecommunications Group
Charles Centre, 3800 Austin Drive
Bellingham, BC V2X 2S6
Telephone: 607-962-6700

THIS IS THE PROPERTY OF CHARLES INDUSTRIES LTD. AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER SUPPLEMENTAL TO THIS INQUIRY.

Verizon Wireless
Large Site Support Enclosure

**Appendix E-1
Barrier Insertion Loss Calculation**

Project Information: Job Number: 2015-051
Project Name: Hwy 880 & 98th Cellular Facility
Location(s): Residential Property Line

Noise Level Data: Source Description: Equipment Cabinets
Source Noise Level, dBA: 50
Source Frequency (Hz): 500
Source Height (ft): 5

Site Geometry: Receiver Description: Property Line - West
Source to Barrier Distance (C₁): 6
Barrier to Receiver Distance (C₂): 29

Pad/Ground Elevation at Receiver: 0
Receiver Elevation¹: 5
Base of Barrier Elevation: 0
Starting Barrier Height 8

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height (ft)	Insertion Loss, dB	Noise Level, dB	Barrier Breaks Line of Site to Source?
8	8	-9.5	40.5	Yes
9	9	-10.9	39.1	Yes
10	10	-12.1	37.9	Yes
11	11	-13.3	36.7	Yes
12	12	-14.2	35.8	Yes
13	13	-14.6	35.4	Yes
14	14	-15.3	34.7	Yes
15	15	-15.9	34.1	Yes
16	16	-16.3	33.7	Yes
17	17	-16.6	33.4	Yes
18	18	-16.9	33.1	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s).

**Appendix E-2
Barrier Insertion Loss Calculation**

Project Information: Job Number: 2015-051
Project Name: Hwy 880 & 98th Cellular Facility
Location(s): Residential Property Line

Noise Level Data: Source Description: Equipment Cabinets
Source Noise Level, dBA: 44
Source Frequency (Hz): 500
Source Height (ft): 5

Site Geometry: Receiver Description: Property Line - East
Source to Barrier Distance (C₁): 6
Barrier to Receiver Distance (C₂): 64

Pad/Ground Elevation at Receiver: 0
Receiver Elevation¹: 5
Base of Barrier Elevation: 0
Starting Barrier Height 8

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height (ft)	Insertion Loss, dB	Noise Level, dB	Barrier Breaks Line of Site to Source?
8	8	-9.2	34.8	Yes
9	9	-10.5	33.5	Yes
10	10	-11.7	32.3	Yes
11	11	-12.9	31.1	Yes
12	12	-13.8	30.2	Yes
13	13	-14.5	29.5	Yes
14	14	-14.6	29.4	Yes
15	15	-15.3	28.7	Yes
16	16	-15.9	28.1	Yes
17	17	-16.3	27.7	Yes
18	18	-16.6	27.4	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s).

**Appendix E-3
Barrier Insertion Loss Calculation**

Project Information: Job Number: 2015-051
Project Name: Hwy 880 & 98th Cellular Facility
Location(s): Residential Property Line

Noise Level Data: Source Description: Generator (SD 030 w/ L2A Enclosure)
Source Noise Level, dBA: 64
Source Frequency (Hz): 500
Source Height (ft): 5

Site Geometry: Receiver Description: Property Line - West
Source to Barrier Distance (C₁): 6
Barrier to Receiver Distance (C₂): 29

Pad/Ground Elevation at Receiver: 0
Receiver Elevation¹: 5
Base of Barrier Elevation: 0
Starting Barrier Height 8

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height (ft)	Insertion Loss, dB	Noise Level, dB	Barrier Breaks Line of Site to Source?
8	8	-9.5	54.5	Yes
9	9	-10.9	53.1	Yes
10	10	-12.1	51.9	Yes
11	11	-13.3	50.7	Yes
12	12	-14.2	49.8	Yes
13	13	-14.6	49.4	Yes
14	14	-15.3	48.7	Yes
15	15	-15.9	48.1	Yes
16	16	-16.3	47.7	Yes
17	17	-16.6	47.4	Yes
18	18	-16.9	47.1	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s).

**Appendix E-4
Barrier Insertion Loss Calculation**

Project Information: Job Number: 2015-051
Project Name: Hwy 880 & 98th Cellular Facility
Location(s): Residential Property Line

Noise Level Data: Source Description: Generator (SD 030 w/ L2A Enclosure)
Source Noise Level, dBA: 58
Source Frequency (Hz): 500
Source Height (ft): 5

Site Geometry: Receiver Description: Property Line - East
Source to Barrier Distance (C₁): 3
Barrier to Receiver Distance (C₂): 67

Pad/Ground Elevation at Receiver: 0
Receiver Elevation¹: 5
Base of Barrier Elevation: 0
Starting Barrier Height 8

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height (ft)	Insertion Loss, dB	Noise Level, dB	Barrier Breaks Line of Site to Source?
8	8	-10.5	47.5	Yes
9	9	-11.9	46.1	Yes
10	10	-13.2	44.8	Yes
11	11	-14.1	43.9	Yes
12	12	-14.6	43.4	Yes
13	13	-15.3	42.7	Yes
14	14	-15.9	42.1	Yes
15	15	-16.3	41.7	Yes
16	16	-16.6	41.4	Yes
17	17	-16.9	41.1	Yes
18	18	-17.1	40.9	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s).

CITY OF OAKLAND Interoffice Memorandum

CITY OF OAKLAND
PARKS AND RECREATION

Oakland Parks and Recreation

TO: Barry Miller, Chair, Parks and Recreation Advisory Commission
FROM: Michael Bradley, Planner II, Bureau of Planning
DATE: November 18, 2015
SUBJECT: **REQUEST FOR THE PARKS AND RECREATION ADVISORY COMMISSION TO MAKE A RECOMMENDATION ON A MAJOR CONDITIONAL USE PERMIT AND DESIGN REVIEW FOR THE PROPOSED INSTALLATION OF A TEN FOOT (10') EXTENSION TO AN EXISTING 64.3 FOOT PACIFIC GAS AND ELECTRIC (PG&E) TOWER TO CREATE A MINI - TELECOMMUNICATIONS FACILITY WITH SIX (6) ANTENNAS AND A 646 SQUARE FOOT EQUIPEMENT AREA ON THE GROUND IN A PORTION OF COLUMBIAN GARDENS PARK OWNED BY PG&E**

SUMMARY

The applicant requests Parks and Recreation Advisory Commission approval of a Major Conditional Use Permit and Regular Design Review to construct a Mini Telecommunications Facility consisting of a ten foot (10') extension to an existing 64.3 foot Pacific Gas and Electric (PG&E) tower with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E

FISCAL IMPACT

As this portion of Columbian Gardens Park is owned and maintained by Pacific Gas and Electric (PG&E), Planning Staff believe there will be no short- or long-term fiscal impacts due to Verizon Wireless leasing and installing a Mini Telecommunications facility at the subject site.

PROJECT DESCRIPTION

To construct a Mini Telecommunications Facility consisting of a ten foot (10') extension to an existing 64.3 foot Pacific Gas and Electric (PG&E) tower for a total height of 74.3 feet with six (6) antennas and a 646 square foot, fenced in equipment area on the ground between overhead power lines in a portion of Columbian Gardens Park owned by PG&E.

BACKGROUND

This type of application requires a Major Conditional Use Permit for a Mini Telecommunications facility in the OS Open Space, Neighborhood Park Zone (section 17.11.090 B and 17.128.060C) and Design Review (section 17.136.050B and 17.128.060B) with review and approval by the Planning Commission.

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".

RECOMMENDATION

The Bureau of Planning recommends the Parks and Recreation Advisory Commission recommend approval of the proposed Major Conditional Use Permit and Design Review to construct a Mini Telecommunications Facility consisting of a ten foot (10') extension to an existing 64.3 foot Pacific Gas and Electric (PG&E) tower for a total height of 74.3 feet with six (6) antennas and a 646 square foot, fenced in equipment area on the ground between overhead power lines in a portion of Columbian Gardens Park owned by PG&E. The proposed project will result in better telecommunications for residents living in the neighborhood surrounding the park and for those traveling along the 880 Freeway.

Respectfully submitted,

Michael Bradley (Signature)
Michael Bradley
Planner II, Bureau of Planning

Attachments: Exhibit A – *Project Plans*
Exhibit B – *Project Photo Simulations*



CITY OF OAKLAND

Bureau of Planning

250 Frank H. Ogawa Plaza, Suite 2114, Oakland, California, 94612 - 2032

Release on October 30, 2015

Dear Columbian Gardens Park Interested Parties:

Please be advised the Parks and Recreation Advisory Commission (PRAC) will consider an action item regarding installation of a 10 foot extension to an existing 64.3 foot PG&E tower to create a Mini-Telecommunications Facility with six (6) antennas and a 646 square foot equipment area on the ground in a portion of Columbian Gardens Park owned by PG&E at their scheduled meeting on November 18, 2015. Specifically, the PRAC will be asked to make findings, conduct design review and make a recommendation to the Planning Commission regarding the Major Conditional Use Permit and Design Review application. Please note the following meeting details:

PARKS AND RECREATION ADVISORY COMMISSION

City of Oakland

Wednesday, November 18, 2015 at 4:30PM

Lake Merritt Garden Center, 666 Bellevue Avenue

The staff report, when available, will also be provided on the webpage link noted above (and a link will be provided by email, as well).

Should you have any questions and/or comments, please do not hesitate to contact me at the address, phone number or email address listed below. Thank you for your interest.

Michael Bradley, Planner II | City of Oakland | Bureau of Planning | 250 Frank H. Ogawa Plaza, Suite 2114 | Oakland, CA 94612 | Phone: (510)238-6935 | Fax: (510) 238-3254 | Email: mbradley@oaklandnet.com | Website: www.oaklandnet.com/planning