



# SAN FRANCISCO PLANNING DEPARTMENT

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## Executive Summary CONDITIONAL USE

HEARING DATE: JANUARY 28, 2010

*Date:* January 21, 2010  
*Case No.:* **2009.0877C**  
*Project Address:* **1135 Evans Avenue**  
*Current Zoning:* NC-2 (Small-Scale Neighborhood Commercial District)  
40-X Height and Bulk District  
*Block/Lots:* 4602A/014  
*Project Sponsor:* James Singleton  
12647 Alcosta Blvd Ste 110  
San Ramon, CA 94583  
*Staff Contact:* Diego R Sánchez – (415) 575-9082  
[diego.sanchez@sfgov.org](mailto:diego.sanchez@sfgov.org)

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### PROJECT DESCRIPTION

The proposal is to install three wireless panel antennas on two existing lattice towers. The antennas would be mounted no higher than 50 feet from the base of each lattice tower. Each antenna is approximately 1 foot wide, 4 feet high and ½ foot in depth. The lattice towers, located toward the southern end of the site, are approximately 150 feet from the east property line, 200 feet from the north property line, 65 feet from the west property line and 20 feet from the south property line. The addition of these antennas is intended to increase data streaming speed and assist in the maintenance and expansion of the Verizon wireless telecommunications network within the southeast sector of the City of San Francisco.

### SITE DESCRIPTION AND PRESENT USE

The project is located at the southwest corner of Evans Avenue and Middle Point Road, lot 014 of Assessor's Block 4602A. The site is owned by Pacific Gas & Electric (PG&E). The site is used as a location for electrical transmission towers. Two other wireless transmission facilities are located on site as well.

### SURROUNDING PROPERTIES & NEIGHBORHOOD

The subject property is located at the northern end of the Bayview/Hunters Point neighborhood. To the south and east is the Hunter's View San Francisco Housing Authority site. To the north is a United States Post Office as well as other commercial properties within the India Basin Industrial Park. Residential properties are found further to the west of the subject property. PDR (Production, Distribution and Repair) and M (Manufacturing) Zoning districts surround the subject property to the north and east; Residential, Mixed, Low Density Districts (RM-1) are to the south of the site; and Residential, House,

Two Family Districts are to the west. Overall, the site is located in a lightly developed, low residential density area of the Bayview/Hunters Point Neighborhood.

### ENVIRONMENTAL REVIEW STATUS

The project is categorically exempt from environmental review as a Class 3(c) project.

### HEARING NOTIFICATION REQUIREMENTS

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	January 8, 2009	January 8, 2009	20 days
Posted Notice	20 days	January 8, 2009	January 8, 2009	20 days
Mailed Notice	20 days	January 8, 2009	January 8, 2009	20 days

### ISSUES AND OTHER CONSIDERATIONS

- The Department has not received public comment on this project.

### REQUIRED COMMISSION ACTION

Authorize Conditional Use under Planning Code Sections 711.83 and 303 to allow for the establishment of a wireless transmission facility within a NC-2 (Small Scale Neighborhood Commercial) District and a 40-X Height and Bulk District.

### BASIS FOR RECOMMENDATION

The Department believes this project is necessary and/or desirable under Section 303 of the Planning Code for the following reasons:

- The proposed location is classified as a Preferred Site for wireless transmission facilities as it is a Co-Location site with a Location Preference Number 2.
- The project sponsor has complied with all procedural requirements for the establishment of a wireless transmission facility, including holding a community outreach meeting to residents within 500 feet of the proposed location in November 2009.
- The proposed project will assist in maintaining a complete and comprehensive wireless telecommunications network within the city of San Francisco and provides a service that is in demand and serves the public good.

<b>RECOMMENDATION:</b> <b>Approve with Conditions</b>
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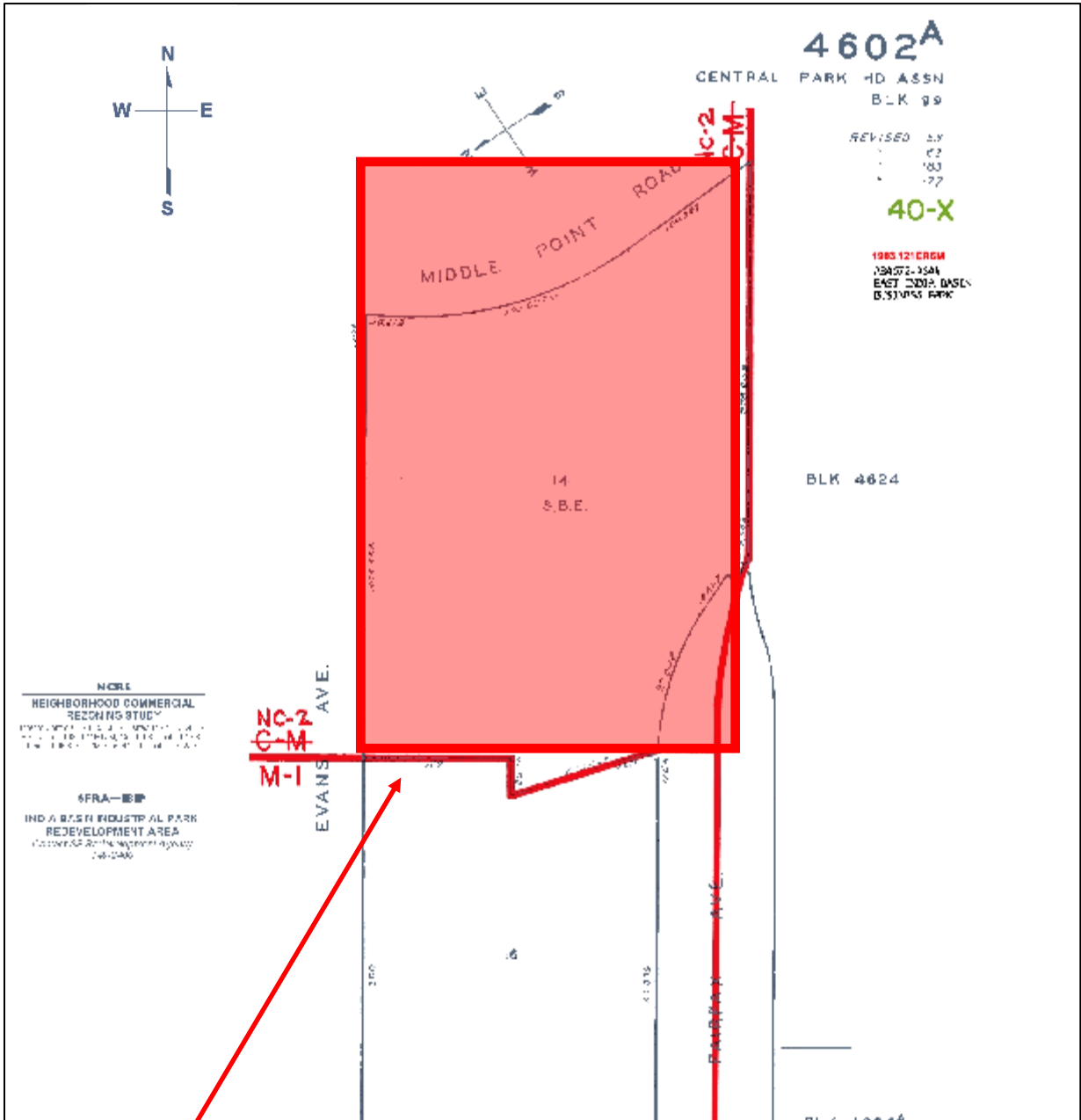
## Exhibit Checklist

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Executive Summary   | <input checked="" type="checkbox"/> Project sponsor submittal    |
| <input checked="" type="checkbox"/> Draft Motion        | Drawings: <u>Existing Conditions</u>                             |
| <input type="checkbox"/> Environmental Determination    | <input checked="" type="checkbox"/> Check for legibility         |
| <input checked="" type="checkbox"/> Zoning District Map | Drawings: <u>Proposed Project</u>                                |
| <input checked="" type="checkbox"/> Height & Bulk Map   | <input checked="" type="checkbox"/> Check for legibility         |
| <input checked="" type="checkbox"/> Parcel Map          | <input type="checkbox"/> Letters of Project Support / Opposition |
| <input checked="" type="checkbox"/> Sanborn Map         |  |
| <input checked="" type="checkbox"/> Aerial Photo        |  |
| <input checked="" type="checkbox"/> Context Photos      |  |
| <input checked="" type="checkbox"/> Site Photos         |  |

Exhibits above marked with an "X" are included in this packet

\_\_\_\_\_  
Planner's Initials

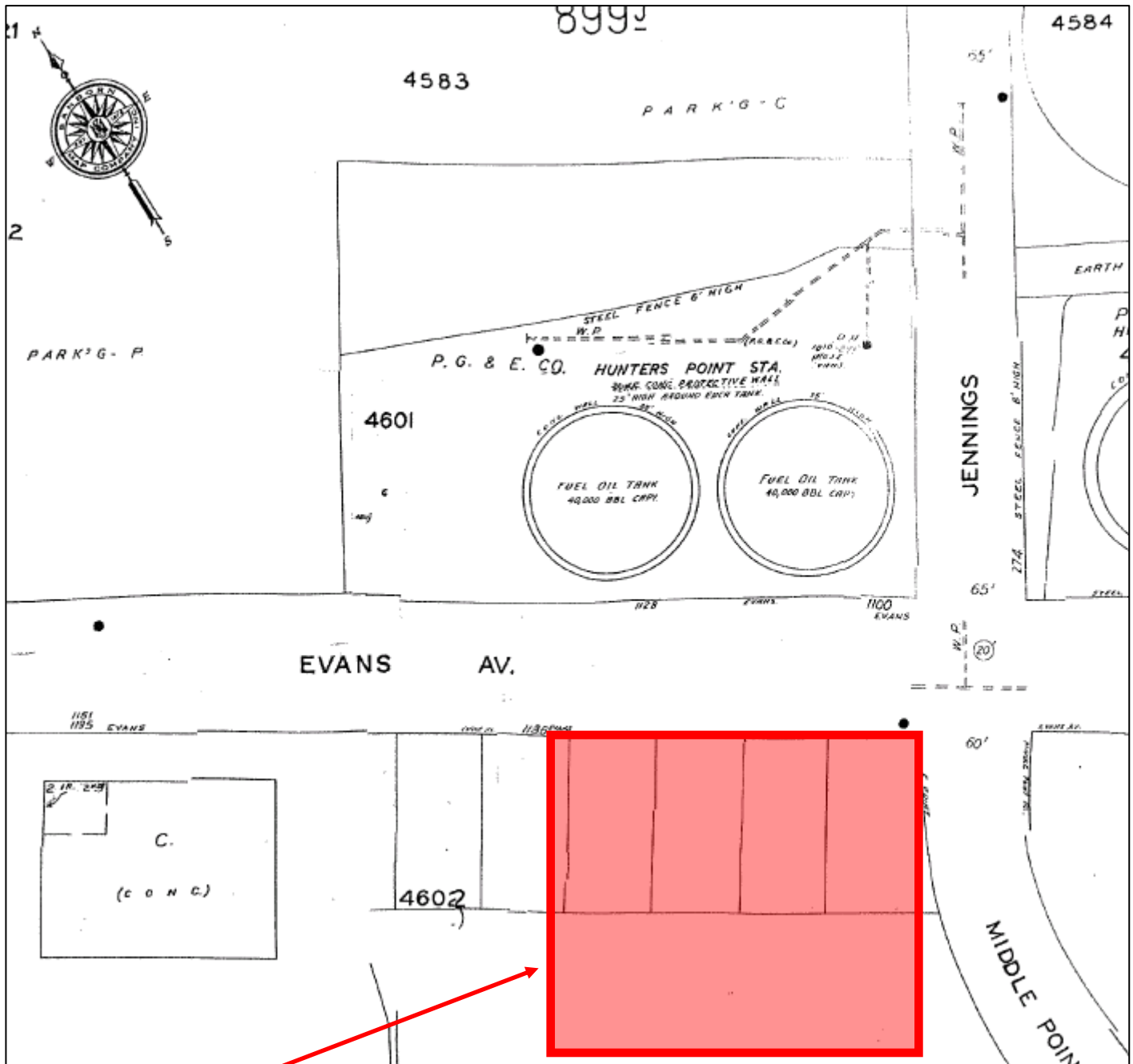
# Parcel Map



**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2009.0877C  
Wireless Transmission Facility  
1135 Evans Avenue

# Sanborn Map\*



\*The Sanborn Maps in San Francisco have not been updated since 1998, and this map may not accurately reflect existing conditions.

**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2009.0877C  
Wireless Transmission Facility  
1135 Evans Avenue

# Aerial Photo



**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2009.0877C  
Wireless Transmission Facility  
1135 Evans Avenue



# Zoning Map



**SUBJECT PROPERTY**

Conditional Use Hearing  
Case Number 2009.0877C  
Wireless Transmission Facility  
1135 Evans Avenue

# Height & Bulk Map



## HEIGHT AND BULK DISTRICTS

OS ← "Open Space" District

"Numbers" are Height Limits in feet. See Planning Code Section 250 and following.

"Letters" refer to Bulk Limits. See Planning Code Section 270.

00-Z-1 ← "Suffix Numbers" identify districts in which special regulations apply. See Planning Code Sections 263 and following.



**SUBJECT PROPERTY**

Conditional Use Hearing  
 Case Number 2009.0877C  
 Wireless Transmission Facility  
 1135 Evans Avenue



# Site Photo



Conditional Use Hearing  
Case Number 2009.0877C  
Wireless Transmission Facility  
1135 Evans Avenue



City and County of San Francisco  
**DEPARTMENT OF PUBLIC HEALTH**  
**ENVIRONMENTAL HEALTH SECTION**

Gavin Newsom, Mayor  
Mitchell H. Katz, MD, Director of Health  
Rajiv Bhatia, MD, MPH, Director of EH

**Review of Cellular Antenna Site Proposals**

**Project Sponsor:** Verizon Wireless **Planner:** Jonas Ionin

**RF Engineer Consultant:** Bill Hammett, Hammett & Edison **Phone number** 707-996-5200

**Project Address/Location:** 1135 Evans Ave. (#161761)

The following information is required to be provided before approval of this project can be made. These information requirements are established in the San Francisco Planning Department Wireless Telecommunications Services Facility Siting Guidelines dated August 1996.

In order to facilitate quicker approval of this project, it is recommended that the project sponsor review this document before submitting the proposal to ensure that all requirements are included.

X 1. The location of all existing antennas and facilities. Existing RF levels. (WTS-FSG, Section 11, 2b)

X 2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from the approved antennas. (WTS-FSG Section 11, 2b)

X 3. The number and types of WTS within 100 feet of the proposed site and provide estimates of cumulative EMR emissions at the proposed site. (WTS-FSG, Section 10.5.2)

X 4. Location (and number) of the Applicant's antennas and back-up facilities per building and number and location of other telecommunication facilities on the property (WTS-FSG, Section 10.4.1a)

X 5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to the application (WTS-FSG, Section 10.4.1c)

X 6. The total number of watts per installation and the total number of watts for all installations on the building (roof or side) (WTS-FSG, Section 10.5.1).

X 7. Preferred method of attachment of proposed antenna (roof, wall mounted, monopole) with plot or roof plan. Show directionality of antennas. Indicate height above roof level. Discuss nearby inhabited buildings (particularly in direction of antennas) (WTS-FSG, Section 10.4.1d)

X 8. Report estimated ambient radio frequency fields for the proposed site (identify the three-dimensional perimeter where the FCC standards are exceeded.) (WTS-FSG, Section 10.5) State FCC standard utilized and power density exposure level (i.e. 1986 NCRP, 200  $\mu\text{w}/\text{cm}^2$ )

X 9. Signage at the facility identifying all WTS equipment and safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. (WTS-FSG, Section 10.9.2). Discuss signage for those who speak languages other than English.

X 10. Statement on who produced this report and qualifications.

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X **Approved.** Based on the information provided the following staff believes that the project proposal will comply with the current Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC standard 1986 - NCRP **Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.**

*Comments: There are existing antennas operated by Verizon installed on two tall steel PG&E lattice towers located at 1135 Evans Avenue. Also at this location are similar antennas operated by T-Mobile and Sprint Nextel. Existing RF levels at ground level were less than 1% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. Verizon proposes to add three antennas which are Andrew Model BXA70063-4CF. The antennas would be mounted at effective height of about 44 feet above the ground. The estimated ambient RF field from the proposed Verizon transmitters at ground level is calculated to be 0.0076 mW/sq. cm., which is 1.4% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend 32 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas in English, Spanish and Chinese. Worker should not have access to directly in front of the antennas while they are in operation.*

     **Not Approved**, additional information required. \_\_\_\_\_

     **Not Approved**, does not comply with Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC Standard

  1   Hours spent reviewing

  \$167.00   Charges to Project Sponsor (in addition to previous charges, to be received at time of receipt by Sponsor)

Signed Patrick Fosdahl Digitally signed by Patrick Fosdahl  
DN: cn=Patrick Fosdahl, o=SFDPH,  
ou=Environmental Health, email=patrick.  
fosdahl@sfdph.org, c=US  
Date: 2009.06.19 12:12:17 -0700' Date June 19, 2009

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Existing



Proposed





Existing

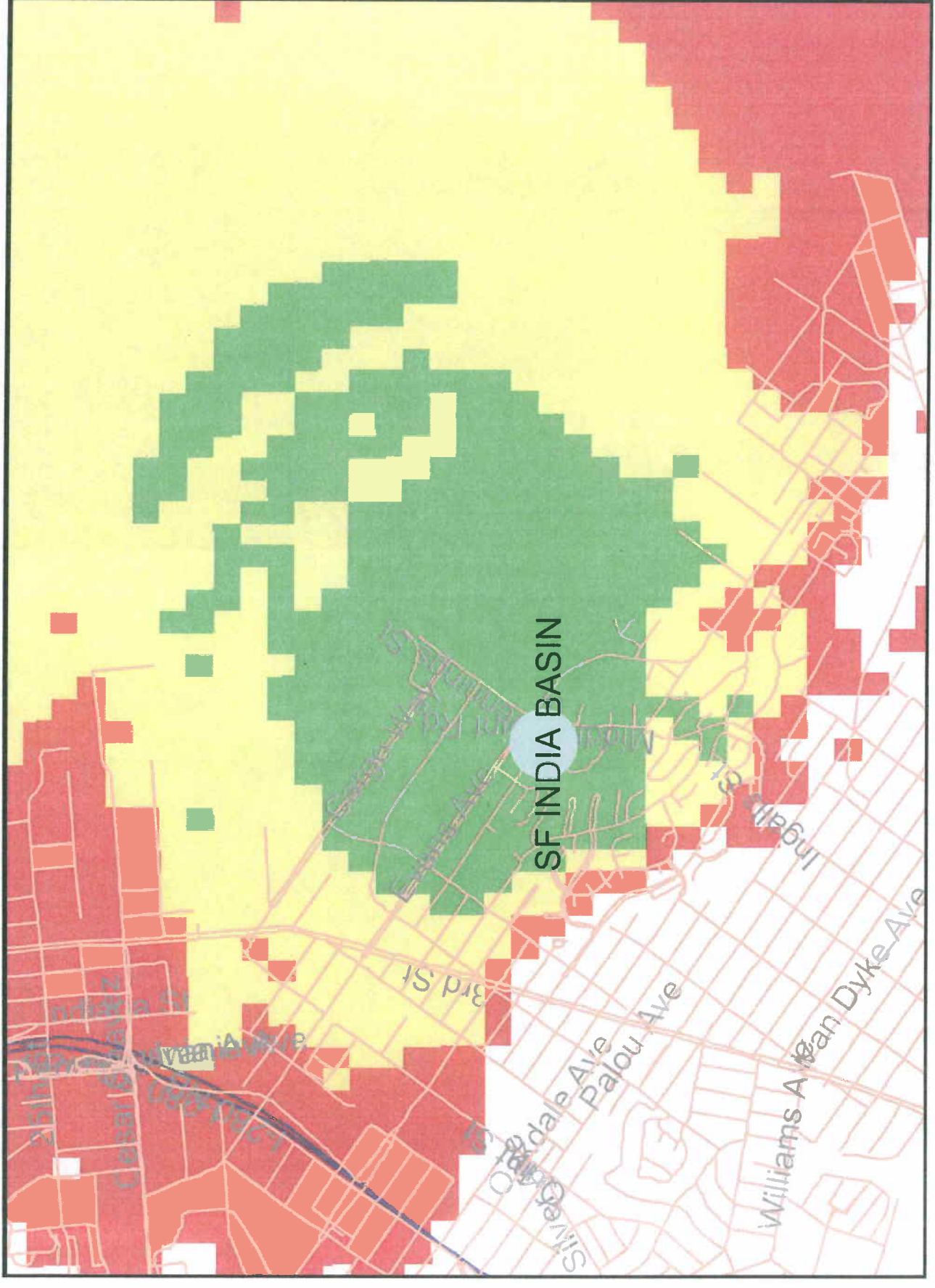


proposed antennas

Proposed



Proposed  
Green = Good  
Yellow = Fair  
Red = Poor  
White = Bad or None  
Verizon - India Basin



Existing

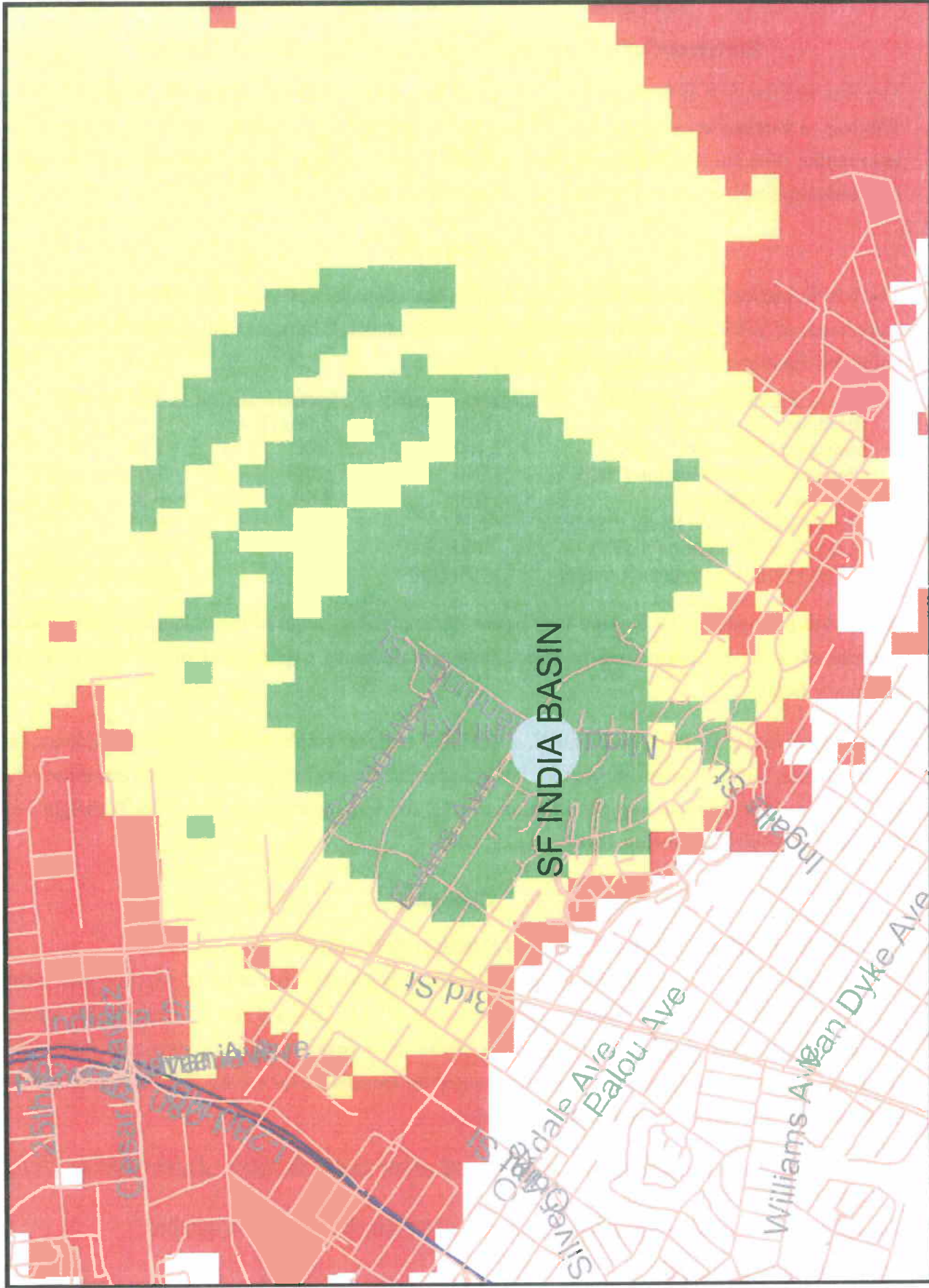
Green = Good

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Verizon - India Basin



**Verizon Wireless • Base Station No. 161761 “India Basin”  
1135 Evans Avenue • San Francisco, 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 wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. 161761 “India Basin”) located at 1135 Evans Avenue with respect to prevailing standards limiting human exposure to radio frequency energy.

**Background**

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of WTS facilities with prevailing safety standards. The acceptable limits for exposures of unlimited duration are those adopted by the FCC:

Personal Wireless Service	Approx. Frequency	Occupational Limit	Public Limit
Broadband Radio (“BRS”)	2,600 MHz	5.00 mW/cm <sup>2</sup>	1.00 mW/cm <sup>2</sup>
Advanced Wireless (“AWS”)	2,100	5.00	1.00
Personal Communication (“PCS”)	1,950	5.00	1.00
Cellular Telephone	870	2.90	0.58
Specialized Mobile Radio (“SMR”)	855	2.85	0.57
Long Term Evolution (“LTE”)	700	2.33	0.47
[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.

The site was visited by Rajat Mathur, P.E., a qualified engineer employed by Hammett & Edison, Inc., during normal business hours on May 27, 2009, and reference has been made to additional information provided by Verizon regarding the addition of LTE service, including drawings by Foresight Land Surveying & Civil Engineering, dated June 22, 2009.

**Checklist**

*1. The location of all existing antennas and facilities at site. Existing RF levels.*

Installed for Verizon were directional panel antennas mounted to the sides of two tall steel PG&E lattice towers inside a locked fence enclosure located at 1135 Evans Avenue. Existing RF levels at ground near the site measured less than 3% of the most restrictive public exposure limit. Also observed at the site were similar antennas mounted on the towers for use by T-Mobile and by Sprint Nextel, other wireless telecommunications carriers.

*2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas.*

No other WTS facilities are reported to be approved for this site, but not yet installed.



**Verizon Wireless • Base Station No. 161761 “India Basin”  
1135 Evans Avenue • San Francisco, California**

3. The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.

There were no other WTS facilities observed within 100 feet of the proposed site.

4. Location (and number) of Applicant’s antennas and back-up facilities per building and location (and number) of other WTS at site.

Verizon proposes to add LTE service by mounting three Andrew Model BXA70063-4CF next to the existing antennas, reported to be Andrew Model BXD6340638CF for PCS and cellular service, mounted with up to 7° downtilt. The antennas would be mounted at effective heights of at least 37 feet above ground and would be oriented toward 50°T, 160°T, and 330°T.

5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to application.

The maximum rating of the cellular and PCS transmitters is 20 watts, with the proposed LTE transmitters rated at 16 watts. The power ratings of the transmitters for T-Mobile and Sprint Nextel are not known. The actual operating power of the transmitters will depend upon the system losses encountered after the physical cabling runs have been installed; the transmitters may operate at a power less than their maximum rating, such that the total power radiated from the antennas does not exceed the level given in Item 6 below.

6. Total number of watts per installation and total number of watts for all installations at site.

The maximum effective radiated power in any direction for Verizon would be 1,720 watts, representing simultaneous operation at 320 watts for PCS, 1,000 watts for cellular, 400 watts for LTE service. The maximum effective radiated powers for the T-Mobile and Sprint Nextel had been reported to be 400 and 1,000 watts, respectively.

7. Plot or roof plan showing method of attachment of antennas, directionality of antennas, and height above roof level. Discuss nearby inhabited buildings.

The antennas would be mounted as described in Item 4 above. There was noted a taller building located nearby, across the street.

8. Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.

For a person anywhere at ground near the site, the maximum ambient RF level from the proposed Verizon operation is calculated to be 0.013 mW/cm<sup>2</sup>, which is 2.3% of the applicable public exposure limit. Therefore, ambient levels at ground are estimated to be less than 4% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend 32 feet in front of the Verizon antennas; this does not reach any publicly accessible areas.



**Verizon Wireless • Base Station No. 161761 "India Basin"  
1135 Evans Avenue • San Francisco, California**

9. Describe proposed signage at site.

Due to their mounting location, the Verizon antennas are not 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. To prevent exposures in excess of the occupational limit by authorized PG&E workers, it is expected that they will adhere to appropriate safety protocols adopted by that company.

10. Statement of authorship.

The undersigned author of this statement is a qualified Professional Engineer, holding California Registrations Nos. E-13026 and M-20676, which expire on June 30, 2011. 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.

**Conclusion**

Based on the information and analysis above, it is my professional opinion that the Verizon Wireless base station operation located at 1135 Evans Avenue in San Francisco will continue to 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.

September 15, 2009



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

09-0877 C





# SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)

- Inclusionary Housing (Sec. 315)
- Jobs Housing Linkage Program (Sec. 313)
- Downtown Park Fee (Sec. 139)
- First Source Hiring (Admin. Code)
- Child Care Requirement (Sec. 314)
- Other

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## Planning Commission Motion

HEARING DATE: JANUARY 28, 2010

*Date:* January 21, 2010  
*Case No.:* **2009.0877C**  
*Project Address:* **1135 Evans Avenue**  
*Current Zoning:* NC-2 (Small-Scale Neighborhood Commercial District)  
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 12647 Alcosta Blvd Ste 110  
 San Ramon, CA 94583  
*Staff Contact:* Diego R Sánchez – (415) 575-9082  
 diego.sanchez@sfgov.org

**ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 711.83 AND 790.80 TO INSTALL A WIRELESS TRANSMISSION FACILITY CONSISTING OF THREE PANEL ANTENNAS ON TWO EXISTING 70 FOOT TALL LATTICE TOWERS AS PART OF THE VERIZON WIRELESS TELECOMMUNICATIONS NETWORK WITHIN THE NC-2 (SMALL SCALE NEIGHBORHOOD COMMERCIAL) DISTRICT AND A 40-X HEIGHT AND BULK DISTRICT.**

### PREAMBLE

On September 17, 2009, James Singleton (hereinafter "project sponsor"), made an application (hereinafter "application"), for Conditional Use authorization on the property at 1135 Evans Avenue, Lot 014 in Assessor's Block 4602A, (hereinafter "project site") to install a wireless transmission facility consisting of three panel antennas on two existing 70 foot lattice towers as part of the Verizon wireless telecommunications network within the Small-Scale Neighborhood Commercial District (NC-2) and a 40-X Height and Bulk District.

The proposed project was determined by the San Francisco Public Utilities Commission's Bureau of Environmental and Regulatory Management to be categorically exempt from the environmental review process pursuant to Class 3 exemptions of Title 14 of the California Administrative Code. The Commission has reviewed and concurs with said determination. The categorical exemption and all pertinent documents may be found in the files of the Planning Department, as the custodian of records, at 1650 Mission Street, San Francisco.

The proposed project as approved herein is consistent with the project description contained in the categorical exemption and would not result in significant impacts not identified in the categorical exemption or cause significant effects already identified in the categorically exemption to be substantially more severe.

On January 28, 2010, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use.

The Commission has heard and considered the testimony presented to it at the public hearing and has further considered written materials and oral testimony presented on behalf of the applicant, department staff, and other interested parties.

**MOVED**, that the Commission hereby authorizes the Conditional Use in Application No. 2009.0877C, subject to the conditions contained in "EXHIBIT A" of this motion, based on the following findings:

## **FINDINGS**

Having reviewed the materials identified in the preamble above, and having heard all testimony and arguments, this Commission finds, concludes, and determines as follows:

1. The above recitals are accurate and constitute findings of this Commission.
2. **Site Description and Present Use.** The project is located at the southwest corner of Evans Avenue and Middle Point Road, lot 014 of Assessor's Block 4602A. The site is owned by Pacific Gas & Electric (PG&E). The site is used as a location for electrical transmission towers. Two other wireless transmission facilities are located on site as well.
3. **Surrounding Properties and Neighborhood.** The subject property is located at the northern end of the Bayview/Hunters Point neighborhood. To the south and east is the Hunter's View San Francisco Housing Authority site. To the north is a United States Post Office as well as other commercial properties within the India Basin Industrial Park. Residential properties are found further to the west of the subject property. PDR (Production, Distribution and Repair) and M (Manufacturing) Zoning districts surround the subject property to the north and east; Residential, Mixed, Low Density Districts (RM-1) are to the south of the site; and Residential, House, Two Family Districts are to the west. Overall, the site is located in a lightly developed, low residential density area of the Bayview/Hunters Point Neighborhood.
4. **Proposal.** The proposal is to install three wireless panel antennas on two existing lattice towers. The antennas would be mounted no higher than 50 feet from the base of each lattice tower. Each antenna is approximately 1 foot wide, 4 feet high and ½ foot in depth. The lattice towers, located toward the southern end of the site, are approximately 150 feet from the east property line, 200 feet from the north property line, 65 feet from the west property line and 20 feet from the south property line. The addition of these antennas is intended to increase data streaming speeds and assist in the maintenance and expansion of the Verizon wireless telecommunications network within the southeast sector of the City of San Francisco.

5. **Past History and Actions.** The Planning Commission held a duly advertised public hearing on August 15, 1996 to consider adoption of guidelines for the siting of WTS facilities in San Francisco which would include standard conditions of approval for wireless communications facilities which are regulated by the FCC and required to meet the health and safety standards.

The Planning Commission, by Resolution No. 14182, adopted the proposed WTS Facilities Siting Guidelines on August 15, 1996. The sample conditions of approval presented in the Guidelines form the basis for the development of conditions of approval for this Application and Motion.

On January 28, 2010, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use pursuant to Planning Code Sections 711.83 and 790.80 to allow the installation of a wireless telecommunications facility consisting of three new panel antennas on two existing 70 foot lattice towers as part of Verizon wireless telecommunications network.

6. **Location Preference.** The WTS Facilities Siting Guidelines identify different types of buildings for the siting of wireless transmission facilities, with Location Preference 1 being the most desirable location and Location Preference 7 being the least desirable location. Under the Guidelines, the project is a Location Preference Number 2, Co-Location and as such is a Preferred Location Site.
7. **Radio Waves Range.** The Project Sponsor has stated that the proposed wireless network will transmit calls by radio waves operating in the 700 Megahertz (MHZ) bands which are regulated by the Federal Communications Commission (FCC) and which must comply with the FCC-adopted health and safety standards for electromagnetic radiation and radio frequency radiation.
8. **Radiofrequency (RF) Emissions:** The project sponsor retained Hammett & Edison, Inc., a radio engineering consulting firm, to prepare a report describing the expected RF emissions from the proposed facility. The Department of Public Health reviewed the report and determined that the proposed facility complies with the standards set forth in the Guidelines.
9. **Department of Public Health Review and Approval.** The existing RF levels at ground level near the site for the Verizon proposal were less than 1% of the public exposure limit. Verizon is proposing to install three Andrew Model BXA70063-4CF antennas. The estimated ambient RF field from the proposed transmitters at ground level is calculated to be 0.0076 mW/cm<sup>2</sup>, which is 1.4% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit does not reach any public accessible locations. Due to the proposed mounting locations of the antennas, they will not be accessible to the general public. Warning signs must be posted on the bottom of the tower in English, Spanish, and Chinese.
10. **Maintenance Schedule.** Maintenance visits would occur once each month, conducted by Verizon maintenance employees, generally of two workers. During service-affecting situations, such as loss of power for more than four hours, additional visits would occur.

11. **Community Outreach.** A Community Outreach Meeting was conducted for the proposed project. The meeting was held from 6:30 P.M. to 8:00 P.M. on Tuesday, November 24, 2009, at Bell Chapel CME Church located at 1397 Palou Avenue, San Francisco, CA 94124. No neighbors attended the meeting.
12. **Five-year plan:** Verizon submitted its latest five-year plan, as required, in October 2009.
13. **Public Comment.** The Department has not received public comment since the filing of the application as of the date of this motion.
14. **Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the amendments to Planning Code in the following manner:

- A. **Use.** Per Planning Code Sections 711.83 and 790.80, a Conditional Use is required for all public uses such as wireless transmission facilities.

*The project is proposing a wireless transmission facility and is requesting Conditional Use authorization.*

15. **Planning Code Section 303** establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use approval. On balance, the project does comply with said criteria in that:

- A. The proposed new uses and building, at the size and intensity contemplated and at the proposed location, will provide a development that is necessary or desirable, and compatible with, the neighborhood or the community.

*The proposed project will be generally desirable and compatible with the surrounding neighborhood because the project will not conflict with the existing uses of the property and will be of such size and nature to be compatible with the surrounding industrial nature of the vicinity. The approval of this authorization has been found, first and foremost, to ensure public safety, and ensure that the placement of antennas are so located and designed so as to be in harmony with the character of the immediate area. The proposed project will also provide necessary facilities for emergency transmission and improved communication for the neighborhood, community and region.*

- B. The proposed project will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity. There are no features of the project that could be detrimental to the health, safety or convenience of those residing or working the area, in that:
  - i Nature of proposed site, including its size and shape, and the proposed size, shape and arrangement of structures;



*The proposed project must comply with all applicable Federal and State regulations to safeguard the health, safety and to ensure that persons residing or working in the vicinity will not be affected, and prevent harm to other personal property.*

*An evaluation of potential health effects from RF radiation, conducted by the Department of Public Health, has concluded that the proposed wireless transmission facilities will have no adverse health effects if operated in compliance with the FCC-adopted health and safety standards. The Department has received information that the proposed wireless system must be operated so as not to interfere with radio or television reception in order to comply with the provisions of its license under the FCC.*

*The Department is developing a database of all such wireless communications facilities operating or proposed for operation in the City and County of San Francisco. All applicants are now required to submit information on the location and nature of all existing and approved wireless transmission facilities operated by the Project Sponsor. The goal of this effort is to foster public information as to the location of these facilities.*

- ii The accessibility and traffic patterns for persons and vehicles, the type and volume of such traffic, and the adequacy of proposed off-street parking and loading;

*No increase in traffic volume is anticipated.*

- iii The safeguards afforded to prevent noxious or offensive emissions such as noise, glare, dust and odor;

*Noise or noxious emissions from this use are not likely to be significantly greater than ambient conditions due to the operation of the wireless communication network.*

- iv Treatment given, as appropriate, to such aspects as landscaping, screening, open spaces, parking and loading areas, service areas, lighting and signs;

*The installation of antennas on existing lattice towers will not affect the existing landscaping, open spaces, parking and loading areas, service areas or signs.*

- C. That the use as proposed will comply with the applicable provisions of the Planning Code and will not adversely affect the General Plan.

*The Project complies with all relevant requirements and standards of the Planning Code and is consistent with objectives and policies of the General Plan as detailed below.*

- D. That the use as proposed would provide development that is in conformity with the purpose of the applicable Neighborhood Commercial District.

*The proposed project is consistent with the stated purposes of the Small Scale Neighborhood Commercial District because it is a use that will complement and assist in commercial activity within*

*the District. It is also in conformity as the intended use avoids any deleterious effects upon existing neighborhood character by being located on two existing lattice towers, approximately 70 feet tall and set back from the east and north street frontages 150 and 200 feet, respectively.*

16. **General Plan Compliance.** The Project is, on balance, consistent with the following Objectives and Policies of the General Plan

## **COMMERCE AND INDUSTRY ELEMENT**

### **Objectives and Policies**

#### **OBJECTIVE 1:**

MANAGE ECONOMIC GROWTH AND CHANGE TO ENSURE ENHANCEMENT OF THE TOTAL CITY LIVING AND WORKING ENVIRONMENT.

##### **Policy 1:**

Encourage development, which provides substantial net benefits and minimizes undesirable consequences. Discourage development, which has substantial undesirable consequences that cannot be mitigated.

##### **Policy 2:**

Assure that all commercial and industrial uses meet minimum, reasonable performance standards.

*The project would enhance the city living and working environment by providing communication services for residents and workers within the City. Additionally, the project would comply with Federal, State and Local performance standards.*

#### **OBJECTIVE 2:**

MAINTAIN AND ENHANCE A SOUND AND DIVERSE ECONOMIC BASE AND FISCAL STRUCTURE FOR THE CITY.

##### **Policy 1:**

Seek to retain existing commercial and industrial activity and to attract new such activity to the city.

##### **Policy 3:**

Maintain a favorable social and cultural climate in the city in order to enhance its attractiveness as a firm location.

*The site is an integral part of a wireless communications network that will enhance the City's diverse economic base.*

#### **OBJECTIVE 4:**

IMPROVE THE VIABILITY OF EXISTING INDUSTRY IN THE CITY AND THE ATTRACTIVENESS OF THE CITY AS A LOCATION FOR NEW INDUSTRY.

**Policy 1:**

Maintain and enhance a favorable business climate in the City.

**Policy 2:**

Promote and attract those economic activities with potential benefit to the City.

*The project would benefit the City by enhancing the business climate through improved communication services for residents and workers.*

**COMMUNITY SAFETY ELEMENT**

**Objectives and Policies**

**OBJECTIVE 3:**

ENSURE THE PROTECTION OF LIFE AND PROPERTY FROM THE EFFECTS OF FIRE OR NATURAL DISASTER THROUGH ADEQUATE EMERGENCY OPERATIONS PREPARATION.

**Policy 1:**

Maintain a local agency for the provision of emergency services to meet the needs of San Francisco.

**Policy 2:**

Develop and maintain viable, up-to-date in-house emergency operations plans, with necessary equipment, for operational capability of all emergency service agencies and departments.

**Policy 3:**

Maintain and expand agreements for emergency assistance from other jurisdictions to ensure adequate aid in time of need.

**Policy 4:**

Establish and maintain an adequate Emergency Operations Center.

**Policy 5:**

Maintain and expand the city's fire prevention and fire-fighting capability.

**Policy 6:**

Establish a system of emergency access routes for both emergency operations and evacuation.

*The project would enhance the ability of the City to protect both life and property from the effects of a fire or natural disaster by providing communication services.*

17. **Planning Code Section 101.1(b)** establishes eight priority-planning policies and requires review of permits for consistency with said policies. On balance, the project does comply with said policies in that:

- A. That existing neighborhood-serving retail uses be preserved and enhanced and future opportunities for resident employment in and ownership of such businesses be enhanced.

*No neighborhood-serving retail use would be displaced and the wireless communications network will enhance personal communication services.*

- B. That existing housing and neighborhood character be conserved and protected in order to preserve the cultural and economic diversity of our neighborhoods.

*No residential uses would be displaced as the proposed project is an addition to a site that currently houses multiple wireless transmission sites.*

- C. That the City's supply of affordable housing be preserved and enhanced,

*The project would have no adverse impact on affordable housing in the vicinity.*

- D. That commuter traffic not impede MUNI transit service or overburden our streets or neighborhood parking.

*Due to the nature of the project and minimal maintenance or repair, municipal transit service would not be impeded and neighborhood parking would not be overburdened.*

- E. That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for resident employment and ownership in these sectors be enhanced.

*The Project would cause no displacement of industrial and service sector activity.*

- F. That the City achieve the greatest possible preparedness to protect against injury and loss of life in an earthquake.

*Compliance with applicable structural safety and seismic safety requirements would be considered during the building permit application review process.*

- G. That landmarks and historic buildings be preserved.

*No landmarks or historic buildings would be affected by the project.*

- H. That our parks and open space and their access to sunlight and vistas be protected from development.

*The Project will have no adverse impact on parks or open space, or their access to sunlight or vistas.*

18. The Project is consistent with and would promote the general and specific purposes of the Code provided under Section 101.1(b) in that, as designed, the Project would contribute to the character and stability of the neighborhood and would constitute a beneficial development.
19. The Commission hereby finds that approval of the Determination of Compliance authorization would promote the health, safety and welfare of the City.

**DECISION**

The Commission, after carefully balancing the competing public and private interests, and based upon the Recitals and Findings set forth above, in accordance with the standards specified in the Code, hereby approves the Conditional Use authorization under Planning Code Sections 711.83 and 790.80 to install a wireless transmission facility consisting of three panel antennas on two existing 70' lattice towers as part of the Verizon wireless telecommunications network within an NC-2 (Small-Scale Neighborhood Commercial) District and a 40-X Height and Bulk District and subject to the conditions of approval attached hereto as **Exhibit A**.

**APPEAL AND EFFECTIVE DATE OF MOTION: Any aggrieved person may appeal this conditional use authorization to the Board of Supervisors within thirty (30) days after the date of this Motion No XXXXX. The effective date of this Motion shall be the date of this Motion if not appealed (after the 30-day period has expired) OR the date of the decision of the Board of Supervisors if appealed to the Board of Supervisors. For further information, please contact the Board of Supervisors at (415) 554-5184, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.**

I hereby certify that the foregoing Motion was adopted by the Planning Commission on **January 28, 2010**.

---

Linda D Avery  
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: January 28, 2010



# Exhibit A

## Conditions of Approval

Whenever "Project Sponsor" is used in the following conditions, the conditions shall also bind any successor to the Project or other persons having an interest in the Project or underlying property.

### General Conditions

1. This approval is for Conditional Use authorization under Planning Code Sections 711.83 and 790.80 to install a wireless transmission facility consisting of three panel antennas on an existing 70' lattice tower as part of the Verizon wireless telecommunications network within the NC-2 (Small-Scale Neighborhood Commercial) District and a 40-X Height and Bulk District.
2. The Project approved by this Motion is in general conformity with the plans dated June 22, 2009, on file with the Department in the docket for Case No. 2009.0877 (labeled EXHIBIT B), reviewed and approved by the Commission on January 28, 2010.

### Design

3. The final plans shall meet the standards of the Planning Code and be in general conformity with the plans approved by the Commission on January 28, 2010. as Exhibit B found in the Case docket.
4. Prior to the issuance of any building or electrical permits for the installation of the facilities, the Project Sponsor shall submit final scaled drawings for review and approval by the Planning Department ("Plan Drawings"). The Plan Drawings shall:
  - a. Structure and Siting. Identify all facility related support and protection measures to be installed. This includes, but is not limited to, the location(s) and method(s) of placement, support, protection, screening, paint and/or other treatments of the antennas and other appurtenances to insure public safety, insure compatibility with urban design, architectural and historic preservation principles, and harmony with neighborhood character.
  - b. For the Project Site, regardless of the ownership of the existing facilities: Identify the location of all existing antennas and facilities; and identify the location of all approved (but not installed) antennas and facilities.
  - c. Emissions. Provide a report, subject to approval of the Zoning Administrator, that operation of the facilities in addition to ambient RF emission levels will not exceed adopted FCC standards with regard to human exposure in uncontrolled areas.

**Performance**

5. Project Implementation Report. The Project Sponsor shall prepare and submit to the Zoning Administrator a Project Implementation Report. The Project Implementation Report shall:
  - a. Identify the three-dimensional perimeter closest to the facility at which adopted FCC standards for human exposure to RF emissions in uncontrolled areas are satisfied;
  - b. Document testing that demonstrates that the facility will not cause any potential exposure to RF emissions that exceed adopted FCC emission standards for human exposure in uncontrolled areas.
  - c. Compare test results for each test point with applicable FCC standards. Testing shall be conducted in compliance with FCC regulations governing the measurement of RF emissions and shall be conducted during normal business hours on a non-holiday week day with the subject equipment measured while operating at maximum power.
  - d. The Project Implementation Report shall be prepared by a certified professional engineer or other technical expert approved by the Department. At the sole option of the Department, the Department (or its agents) may monitor the performance of testing required for preparation of the Project Implementation Report. The cost of such monitoring shall be borne by the Project Sponsor pursuant to the condition related to the payment of the City's reasonable costs.
6. Notification and Testing. The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 4 and 13.
7. Approval. The Zoning Administrator shall request that the Certification of Final Completion for operation of the facility not be issued by the Department of Building Inspection until such time that the Project Implementation Report is approved by the Department for compliance with these conditions.
8. Notification prior to Project Implementation Report. The Project Sponsor shall undertake to inform and perform appropriate tests for residents of any dwelling units located within 25 feet of the transmitting antennae at the time of testing for the Project Implementation Report.
  - a. At least twenty calendar days prior to conducting the testing required for preparation of the Project Implementation Report, the Project Sponsor shall mail notice to the Department, as well as to the resident of any legal dwelling unit within 25 feet of a transmitting antenna, of the date on which testing will be conducted. The Applicant will submit a written affidavit attesting to this mail notice along with the mailing list.
  - b. When requested in advance by a resident notified of testing pursuant to subsection (a), the Project Sponsor shall conduct testing of total power density of RF emissions within the residence of that resident on the date on which the testing is conducted for the Project Implementation Report.

9. Community Liaison. Within 10 days of the effective date of this authorization, the Project Sponsor shall appoint a community liaison officer to resolve issues of concern to neighbors and residents relating to the construction and operation of the facilities. Upon appointment, the Project Sponsor shall report in writing the name, address and telephone number of this officer to the Zoning Administrator. The Community Liaison Officer shall report to the Zoning Administrator what issues, if any, are of concern to the community and what issues have not been resolved by the Project Sponsor.
10. Installation. Within 10 days of the installation and operation of the facilities, the Project Sponsor shall confirm in writing to the Zoning Administrator that the facilities are being maintained and operated in compliance with applicable Building, Electrical and other Code requirements, as well as applicable FCC emissions standards.
11. Screening.
  - a. To the extent necessary to ensure compliance with adopted FCC regulations regarding human exposure to RF emissions, and upon the recommendation of the Zoning Administrator, the Project Sponsor shall:
    - i. Modify the placement of the facilities;
    - ii. Install fencing, barriers or other appropriate structures or devices to restrict access to the facilities;
    - iii. Install multi-lingual signage, including the RF radiation hazard warning symbol identified in ANSI C95.2-1982, to notify persons that the facility could cause exposure to RF emissions; or
    - iv. Implement any other practice reasonably necessary to ensure that the facility is operated in compliance with adopted FCC RF emission standards.
  - b. To the extent necessary to minimize visual obtrusion and clutter, installations shall conform to the following standards:
    - i. Antennas and back-up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual impacts;
    - ii. Rooftop installations shall be setback such that back-up facilities are not viewed from the street;
    - iii. Antennae attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
    - iv. Although co-location of various companies' facilities may be desirable, a maximum number of antennas and back-up facilities on the Project Site shall be established, on a case-by-case basis, such that "antennae farms" or similar visual intrusions for the site and area is not created.
12. The Project Sponsor or Property Owner shall remove antennae and equipment that has been out of service for a continuous period of six months.

13. Periodic Safety Monitoring. The Project Sponsor shall submit to the Zoning Administrator 10 days after installation of the facilities, and every two years thereafter, a certification attested to by a licensed engineer expert in the field of EMR/RF emissions, that the facilities are and have been operated within the then current applicable FCC standards for RF/EMF emissions.
14. Emissions Conditions. It is a continuing condition of this authorization that the facilities be operated in such a manner so as not to contribute to ambient RF/EMF emissions in excess of then current FCC adopted RF/EMF emission standards; violation of this condition shall be grounds for revocation.
15. Noise and Heat. The WTS facility, including power source and cooling facility, shall be operated at all times within the limits of the San Francisco Noise Ordinance. The WTS facility, including power source and cooling facility, shall not be operated so as to cause the generation of heat that adversely affects a building occupant.
16. Implementation and Monitoring Costs.
  - a. The Project Sponsor, on an equitable basis with other WTS providers, shall pay the cost of preparing and adopting appropriate General Plan policies related to the placement of WTS facilities. Should future legislation be enacted to provide for cost recovery for planning, the Project Sponsor shall be bound by such legislation.
  - b. The Project Sponsor or its successors shall be responsible for the payment of all reasonable costs associated with the monitoring of the conditions of approval contained in this authorization, including costs incurred by this Department, the Department of Public Health, the Department of Electricity and Telecommunications, Office of the City Attorney, or any other appropriate City Department or agency pursuant to Planning Code Section 351(f)(2). The Planning Department shall collect such costs on behalf of the City.
  - c. The Project Sponsor shall be responsible for the payment of all fees associated with the installation of the subject facility, which are assessed by the City pursuant to all applicable law.
17. All Conditions Basis for Revocation. The Project Sponsor or its successors shall comply fully with all conditions specified in this authorization. Failure to comply with any condition shall constitute grounds for revocation under the provisions of Planning Code Sections 174, 176 and 303(d). The Zoning Administrator shall schedule a public hearing before the Planning Commission to receive testimony and other evidence to demonstrate a finding of a violation of a condition of the authorization of the use of the facility and, finding that violation, the Commission shall revoke the Conditional Use authorization. Such revocation by the Planning Commission is appealable to the Board of Supervisors.

In the event that the project implementation report includes a finding that RF emissions for the site exceed FCC Standards in any uncontrolled location, the Zoning Administrator may require the Applicant to immediately cease and desist operation of the facility until such time that the violation is corrected to the satisfaction of the Zoning Administrator.

18. Complaints and Proceedings. Should any party complain to the Project Sponsor about the installation or operation of the facilities, which complaints are not resolved by the Project Sponsor, the Project Sponsor (or its appointed agent) shall advise the Zoning Administrator of the complaint and the failure to satisfactorily resolve such complaint. If the Zoning Administrator thereafter finds a violation of any provision of the Planning Code and/or any condition of approval herein, the Zoning Administrator shall attempt to resolve such violation on an expedited basis with the Project Sponsor. If such efforts fail, the Zoning Administrator shall refer such complaints to the Commission for consideration at the next regularly scheduled public meeting.
19. Severability. If any clause, sentence, section or any part of these conditions of approval is for any reason held to be invalid, such invalidity shall not affect or impair other of the remaining provisions, clauses, sentences, or sections of these conditions. It is hereby declared to be the intent of the Commission that these conditions of approval would have been adopted had such invalid sentence, clause, or section or part thereof not been included herein.
20. Transfer of Operation. Any carrier/provider authorized by the Zoning Administrator or by the Planning Commission to operate a specific WTS installation may assign the operation of the facility to another carrier licensed by the FCC for that radio frequency provided that such transfer is made known to the Zoning Administrator in advance of such operation, and all conditions of approval for the subject installation are carried out by the new carrier/provider, and the authorizing Motion is recorded on the deed of the property stating the new carrier/provider and authorizing conditions of approval.
21. Compatibility with City Emergency Services. The facility shall not be operated, nor caused to transmit on or adjacent to any radio frequencies licensed to the City for emergency telecommunication services such that the City's emergency telecommunications system experiences interference, unless prior approval for such has been granted in writing by the City.

**Motion No. XXXXXX**  
**Hearing Date: January 28, 2010**

**CASE NO. 2009.0877C**  
**1135 Evans Avenue**



East looking West down Evans Avenue



Evans Avenue South Block Front - left to right



Evans Avenue North Block front - right to left





North looking South up Middlepoint Road



Middlepoint Road East Block Front - left to right



Middlepoint Road West Block Front - right to left





Westpoint Road from East looking West



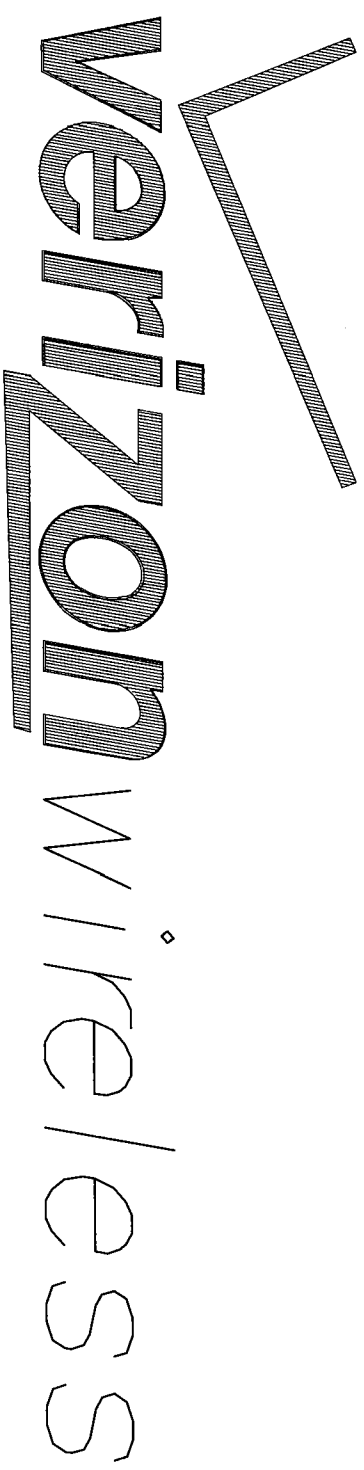
Westpoint Road South Block Front - right to left



Westpoint Road North Block Front - left to right







# INDIA BASIN - LTE ADD/MOD

**1135 EVANS AVENUE  
SAN FRANCISCO, CA**

**PSL# 161761**

**SAP# 41184227  
TOWER 0/30 P-X #2**

**Foresight**  
Land Surveying & Civil Engineering  
Jim Schuricht  
ph 925-389-8180  
email: foresight@comcast.net

**NSA WIRELESS, INC.**  
Bishop Ranch 15 1st Floor  
12647 Alcosta Blvd, Suite 110  
San Ramon, CA 94583  
Office: 925-244-1890  
Fax: 925-355-0672

**Verizon Wireless**

2785 MITCHELL DRIVE, BLDG 9  
WALNUT CREEK, CA, 94598  
OFFICE: (925) 279-6000  
JAY INDUYE  
(925) 279-6391

PSL NO. 161761  
INDIA BASIN  
1135 EVANS AVENUE  
SAN FRANCISCO, CA 94124  
SAN FRANCISCO COUNTY

VERIZON WIRELESS  
EQUIP. ENGINEER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
VERIZON WIRELESS  
REAL ESTATE:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
VERIZON WIRELESS  
CONSTRUCTION:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
VERIZON WIRELESS  
RF ENGINEER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
PROPERTY OWNER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NO.	DATE	ISSUE
A	03/18/09	FOR REVIEW
0	06/09/09	PER REDLINES
1	06/22/09	100%

SHEET TITLE \_\_\_\_\_

TITLE SHEET

SHEET NUMBER \_\_\_\_\_

T-1

FORESIGHT JOB # 500906

## PROJECT TEAM

**ENGINEER:**  
FORESIGHT LAND SURVEYING  
& CIVIL ENGINEERING  
CONTACT: JIM SCHURICHT  
PHONE: (925) 389-8180

**OWNER REP:**  
PACIFIC GAS & ELECTRIC  
77 BEALE STREET, RM 2361  
SAN FRANCISCO, CA  
SEAN RADELLE  
(415) 513-9849

**APPLICANT:**  
 **Verizon Wireless**  
2785 MITCHELL DRIVE  
WALNUT CREEK, CA 94598  
CONTACT: JAY INDUYE  
PHONE: (925) 279-6391

**AGENT:**  
NSA WIRELESS, INC.  
12467 ALCOSTA BLVD, SUITE 110  
SAN RAMON, CA 94583  
CONTACT: CHRIS DURAND  
PHONE: (925) 244-1897

NSA WIRELESS - CONSTRUCTION

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NSA WIRELESS - LEASING

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NSA WIRELESS - ZONING

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## CODE COMPLIANCE

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

1. CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25)
2. CALIFORNIA BUILDING CODE (CBC) 2007
3. CALIFORNIA MECHANICAL CODE (CMC) 2007
4. CALIFORNIA PLUMBING CODE (CPC) 2007
5. CALIFORNIA ELECTRIC CODE (CEC) 2007
6. COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2001 CALIFORNIA BUILDING CODE.

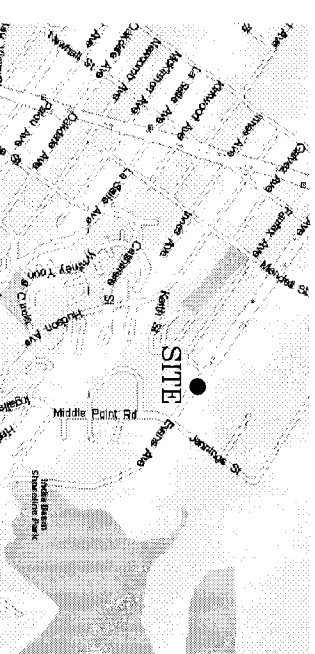
## PROJECT DESCRIPTION

1. ADD (3) ANTENNAS TOTAL, (1) PER SECTOR TO EXISTING PG&E TOWER.

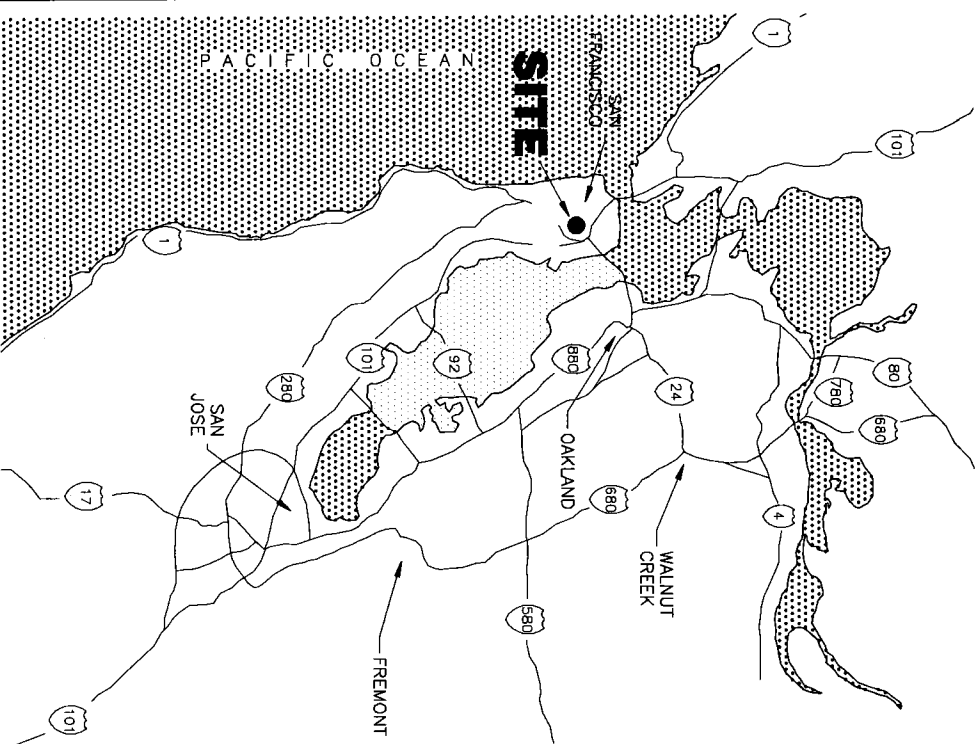
## SHEET INDEX

- T-1 TITLE SHEET
- T-2 SF FD CHECK LIST
- T-3 EMF REPORT
- T-4 SITE SIGNAGE
- A-1 SITE PLAN
- A-2 ELEVATION VIEW
- A-3 ELEVATION VIEW
- A-4 GENERAL NOTES AND DETAILS

## VICINITY MAP



## LOCATION MAP



## DRIVING DIRECTIONS

### FROM VERIZON OFFICE - WALNUT CREEK, CA

Depart 2785 Mitchell Dr, Walnut Creek, CA 94598 on Mitchell Dr  
Turn LEFT (South-East) onto N Wiget Ln  
Turn RIGHT (West) onto Ygnacio Valley Rd  
Road name changes to Hillside Ave  
Take Ramp (RIGHT) onto SR-24 [Grove Shafter Fwy] CA-24/Oakland  
Turn RIGHT onto Ramp I-580/San Francisco/Hayward  
Keep RIGHT to stay on Ramp I-580/San Francisco  
Take Ramp (LEFT) onto I-580 [McArthur Fwy] I-580/Hayward  
Take Ramp (LEFT) onto I-80/San Francisco  
Take Ramp (RIGHT) onto I-80  
Road name changes to US-101  
Keep RIGHT onto Ramp C Chavez St  
Keep LEFT to stay on Ramp C Chavez St East/Boysnore Blvd  
Take Ramp (LEFT) onto Army St [Cesar Chavez] Army St East  
Turn RIGHT (South) onto Evans Ave  
Arrive 1135 Evans Ave, San Francisco, CA 94124

## BUILDING / SITE DATA LEGEND

A.P.N.: 4602A-014  
PSL NUMBER: 161761  
OCCUPANCY TYPE: UNOCCUPIED  
CONSTRUCTION TYPE: V-N

NOTE: IF DRAWING IS 11" x 17"  
DRAWING IS 1/2 SCALE

# Verizon Wireless

Land Surveying & Civil Engineering  
 Jim Schuricht  
 ph 925-389-8180  
 email: foresight@comcast.net

**NSA WIRELESS, INC.**  
 Bishop Ranch 15 1st Floor  
 12647 Alcosta Blvd, Suite 110  
 San Ramon, CA 94583  
 Office: 925-244-1890  
 Fax: 925-355-0672

2785 MITCHELL DRIVE, BLDG 9  
 WALNUT CREEK, CA, 94598  
 OFFICE: (925) 279-6000  
 JAV INVOICE  
 (925) 279-6391  
 PSL NO.161761  
 INDIA BASIN  
 1135 EVANS AVENUE  
 SAN FRANCISCO, CA 94124

**VERIZON WIRELESS**  
 EQUIP. ENGINEER:  
 VERIZON WIRELESS  
 REAL ESTATE:  
 VERIZON WIRELESS  
 CONSTRUCTION:  
 VERIZON WIRELESS

SIGNATURE DATE  
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 REAL ESTATE:  
 VERIZON WIRELESS  
 CONSTRUCTION:  
 VERIZON WIRELESS

NO.	DATE	ISSUE
A	03/18/09	FOR REVIEW
1	06/09/09	PER REDLINES
	06/22/09	100%

SHEET TITLE  
**SF FD**  
**CHECKLIST**

SHEET NUMBER  
**T-2**

FORESIGHT JOB # 500906

**San Francisco Fire Department**  
 Division of Fire Prevention and Investigation

**2006 Permit Application Checklist for Cellular Antenna Sites and all Equipment Serving the Cellular Antenna Site**

This checklist shall be printed on a drawing sheet and submitted as part of the plans submitted with any building permit application creating or modifying cellular antenna sites regardless of RF emission quantities. This checklist is designed to assist designers, installers, plan reviewers, and field inspectors. This checklist shall be prepared by the design professional and shall be stamped and wet-signed.

This document is not all-inclusive of all requirements for cellular antenna sites and it is the responsibility of the designer to research the applicable codes. Documents referenced for this bulletin are as follows:

FCC OET Bulletin 56 - Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields (August 1998)  
 FCC OET Bulletin 85 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (Ed. 97-01; August 1997)  
 FCC - A Local Government Official's Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance (June 2, 2000)  
 2007 California Building Code (2001 CBC)  
 2007 California Fire Code (2001 CFC)  
 2007 San Francisco Fire Code (2001 SFFC)  
 2002 NFPA 13 Automatic Sprinkler Systems  
 2002 NFPA 72 National Fire Alarm Code

STATUS	SHEET LOCATION
COMPLETE	T-1
COMPLETE	A-1 A-2 A-3
COMPLETE	T-3
N/A	
COMPLETE	T-4

1. Description of scope of work (both on the application and plans) shall match the actual work being done.  
 2. Plans shall include plan views and elevations showing all equipment locations and cable runs.  
 3. Submit on a drawing sheet the San Francisco Health Department Cellular Antenna Site (WTS) Checklist/Proposal/Engineer's RF Report. The FCC requires carriers to inform and prevent occupational exposure (i.e. building maintenance workers, fire fighters, etc.). This RF report shall not specify locking the roof access door to keep the general public off of the roof per 2001 SFFC 12077.1. The RF report shall be wet stamped and signed by an engineer.  
 4. Drawings shall reflect the striped/exclusion areas per the above RF Report with a minimum radius being 1 foot.  
 5. Notices to Workers warning signage as applicable per the above RF Report:

Telephone: (415) 882-8187  
 Fax: (415) 882-8000  
 1489 Mission Street, 9th floor  
 San Francisco, CA 94103  
 Prepared by: Jim Schuricht  
 Date: 06/22/09

**San Francisco Fire Department**  
 Division of Fire Prevention and Investigation

Signage shall be in English, Chinese and Spanish. The signage shall be permanently mounted at the stairwell side of the roof-access stairwell, door, in the Fire Control Room within proximity of the call-site shutdown signage and any other space necessary to warn workers (i.e. parapets, street side of fire escapes). The signage shall be clearly labeled and visible from any direction of approach. The sign shall be weatherproof with contrasting background and lettering colors and shall be readable from at least fifteen (15) feet from the sign. There is a yellow triangle around the antenna symbol (see ANSI C95.2-1998) and Location and signage detail with site specific information shall be included on a drawing sheet.

5. Provide a quantitative three-dimensional perimeter of the RF levels if the antennas appear to encroach on any means of egress.  
 7. Camouflaged antennas shall have at least a 4 inch signage permanently mounted to the exterior of the RF screen as provided below. These antennas shall also have the striped exclusion area to the fullest extent of the antenna location with a minimum radius of 1 foot.  
 The signage shall be clearly labeled and visible from any direction of approach even if access is achieved from the building face (i.e. ladders, cherry picker, etc.). The sign shall be weatherproof with contrasting background color and shall be recognizable from at least fifteen (15) feet from the sign. The sign shall contain the yellow triangle around the antenna symbol (see ANSI C95.2-1998) and Location and signage detail shall be included on a drawing sheet.  
 8. Plans shall show whether a new electrical service is installed for the call site. In general, buildings should only have one electrical service. However, with the prior approval of the San Francisco Fire Department and the Electrical Inspection Division, buildings may have one additional service to serve rooftop antenna equipment, provided a permanent placard is provided at the location of each service disconnect stating the location of the other and identifying the equipment served by each service.  
 9. Provide a note of all cables from their origin to the equipment (plan, elevation and section views). Cables/wiring shall not be allowed in exit enclosures or in front of dry stairwells (2007 CBC 1020.1.1).  
 10. EITRHS:  
 Provide a manual battery disconnect:  
 \* Instructional signage shall be provided on the Procedure To Disconnect or De-Energize Radio Frequency (RF) Signal for the above manual disconnect for the batteries.  
 \* Signage shall be permanently mounted next to the battery's electrical panel and clearly labeled in a phenolic label with a white background and black lettering. The title block shall be a red background and 1" high white lettering.  
 \* The actual breaker(s) shall be a phenolic label (red background and white lettering) with lettering not less than 1/8" high.

STATUS	SHEET LOCATION
COMPLETE	A-1 A-2 A-3
N/A	
N/A	
N/A	
N/A	
N/A	

Telephone: (415) 882-8187  
 Fax: (415) 882-8000  
 1489 Mission Street, 9th floor  
 San Francisco, CA 94103  
 Prepared by: Jim Schuricht  
 Date: 06/22/09

**San Francisco Fire Department**  
 Division of Fire Prevention and Investigation

The signage shall also be like posted in the FCC Room within proximity of the Fire Alarm Panel and building's main electrical room within proximity of the main shutdown.  
 \* A copy of the signage shall be included on a drawing sheet.  
 \* Provide SFPD approved key lock box for equipment/electrical room for battery/equipment shutdown.  
 \* The permanently mounted label above the lock box shall read "SFPD BATTERY DISCONNECT ACCESS KEY" and shall be a phenolic label with a red background and white lettering.  
 \* Location and label of the key lock box shall be included on a drawing sheet.  
 OR:  
 Provide 24 hour/7 days a week telephone service center shut-down:  
 \* Provide instructional signage for emergency shutdown of the cell site including telephone number and call site identification number.  
 \* The sign shall state that there is no manual shut down for the cell site and to call the contact number (the number shall be printed on the sign) with the site identification number (the number shall be printed on the sign) for immediate shut-down of the site 24hr/7days a week.  
 \* The sign shall also state whether or not the back-up battery power to the antennas is also shut-down.  
 \* The signage shall be permanently mounted next to the main electrical shut-off, in the FCC room within close proximity to the Fire Alarm Panel, at the battery cabinet and at the equipment room.  
 \* The sign shall be clearly labeled in a phenolic label with a white background and black lettering. The title block shall be a red background and 1" high white lettering.  
 A copy of the signage shall be included on a drawing sheet.  
 11. Is a new HVAC system being installed?  
 Yes  
 \* What is the volume of refrigerant used by the cooling unit(s)?  
 \* What is the type of refrigerant per 2007 CFC?  
 \* Assure compliance with 2007 CFC Section 606.  
 No

STATUS	SHEET LOCATION
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	

Telephone: (415) 882-8187  
 Fax: (415) 882-8000  
 1489 Mission Street, 9th floor  
 San Francisco, CA 94103  
 Prepared by: Jim Schuricht  
 Date: 06/22/09

**San Francisco Fire Department**  
 Division of Fire Prevention and Investigation

compliance with Section 608 of the 2007 California Fire Code is required, the following additional information shall be provided:  
 \* Rooftop battery rooms exceeding the above requirements shall be separated from the building and any openings as specified by the 2007 CBC and CMC.  
 \* Plans state that a separate fire department permit will be obtained from SFPD Headquarters at 636 2nd St.

Prepared by: **JIM SCHURICHT**  
 (Please include professional title and stamp)  
 Firm Name: FORESIGHT LAND SURVEYING & CIVIL ENGINEERING  
 Address: 930 LAHOE BLVD, #902-152, INCLINE VILLAGE, NV 89451  
 Phone Number: 925 389-8180  
 Fax Number: 925 389-8180  
 For Further Information see the FCC website: <http://www.fcc.gov/oet/rfsafety>

Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Title: \_\_\_\_\_



2785 MITCHELL DRIVE, BLDG 9  
 WALKER CREEK, CA, 94598  
 OFFICE: (925) 279-6000  
 JAV INOUE  
 (925) 279-6391  
 PSL NO. 161761  
 INDIA BASIN  
 1135 EVANS AVENUE  
 SAN FRANCISCO, CA 94124  
 SAN FRANCISCO COUNTY

VERIZON WIRELESS  
 EQUIP. ENGINEER:

SIGNATURE DATE

VERIZON WIRELESS  
 REAL ESTATE:

SIGNATURE DATE

VERIZON WIRELESS  
 CONSTRUCTION:

SIGNATURE DATE

VERIZON WIRELESS  
 RF ENGINEER:

SIGNATURE DATE

PROPERTY OWNER:

SIGNATURE DATE

DRAWN BY CHECKED BY

PGM

NO.	DATE	ISSUE
A	3/18/09	FOR REVIEW
0	06/09/09	PER REDLINES
1	06/22/09	100%

SHEET TITLE

EMF  
 REPORT

SHEET NUMBER

T-3

FORESIGHT JOB # 500906

Verizon Wireless • Base Station No. 161761 "India Basin"  
 1135 Evans Avenue • San Francisco, California

9. Describe proposed signage at site.

Due to their mounting location, the Verizon antennas are not 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. To prevent exposures in excess of the occupational limit by authorized PG&E workers, it is expected that they will adhere to appropriate safety protocols adopted by that company.

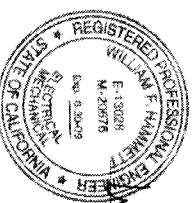
10. Statement of authorship.

The undersigned author of this statement is a qualified Professional Engineer, holding California Registrations Nos. E-13026 and M-20676, which expire on June 30, 2009. 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.

**Conclusion**

Based on the information and analysis above, it is my professional opinion that the Verizon Wireless base station operation located at 1135 Evans Avenue in San Francisco will continue to 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.

June 18, 2009



William T. Hammett, P.E.

HAMMETT & EDISON, INC.  
 CONSULTING ENGINEERS  
 SAN FRANCISCO

VW161761599  
 Page 3 of 3

Verizon Wireless • Base Station No. 161761 "India Basin"  
 1135 Evans Avenue • San Francisco, California

3. The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.

There were no other WTS facilities observed within 100 feet of the proposed site.

4. Location (and number) of Applicant's antennas and back-up facilities per building and location (and number) of other WTS at site.

Verizon proposes to add LTE service by adding three Andrew Model BXA70063-4CF next to the existing antennas, reported to be Andrew Model BXD634063KCF for PCS and cellular service, mounted with up to 7° down tilt at an effective height of at least 44 feet above ground and oriented toward 50°T, 160°T, and 330°T.

5. Power rating, maximum and expected operating power for all existing and proposed backup equipment subject to application.

The maximum rating of the cellular and PCS transmitters is 20 watts, with the proposed LTE transmitters rated at 16 watts. The power ratings of the transmitters for T-Mobile and Sprint Nextel are not known. The actual operating power of the transmitters will depend upon the system losses encountered after the physical cabling runs have been installed; the transmitters may operate at a power less than their maximum rating, such that the total power radiated from the antennas does not exceed the level given in Item 6 below.

6. Total number of watts per installation and total number of watts for all installations at site.

The maximum effective radiated power in any direction for Verizon would be 1,720 watts, representing simultaneous operation at 320 watts for PCS, 1,000 watts for cellular, 400 watts for LTE service. The maximum effective radiated powers for the T-Mobile and Sprint Nextel had been reported to be 400 and 1,000 watts, respectively.

7. Plot or roof plan showing method of attachment of antennas, directivity of antennas, and height above roof level. Discuss nearby inhabited buildings.

The antennas would be mounted as described in Item 4 above. There was noted a taller building located nearby, across the street.

8. Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.

For a person anywhere at ground near the site, the maximum ambient RF level from the proposed Verizon operation is calculated to be 0.0076 mW/cm<sup>2</sup>, which is 1.4% of the applicable public exposure limit. Therefore, ambient levels at ground are estimated to be less than 4% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend 33 feet in front of the Verizon antennas; this does not reach any publicly accessible areas.

HAMMETT & EDISON, INC.  
 CONSULTING ENGINEERS  
 SAN FRANCISCO

VW161761599  
 Page 2 of 3

Verizon Wireless • Base Station No. 161761 "India Basin"  
 1135 Evans Avenue • San Francisco, 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 wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. 161761 "India Basin") located at 1135 Evans Avenue with respect to prevailing standards limiting human exposure to radio frequency energy.

**Background**

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of WTS facilities with prevailing safety standards. The acceptable limits for exposures of unlimited duration are those adopted by the FCC:

Personal Wireless Service	Approx. Frequency	Occupational Limit	Public Limit
Broadband Radio ("BRS")	2,600 MHz	5,000 mW/cm <sup>2</sup>	1,000 mW/cm <sup>2</sup>
Advanced Wireless ("AWS")	2,100	5,000	1,000
Personal Communication ("PCS")	1,950	2,900	0.58
Cellular Telephone	850	2,85	0.57
Specialized Mobile Radio ("SMR")	855	2,33	0.47
Long Term Evolution ("LTE")	700	1,000	0.20
Fixed restrictive frequency range	30-300		

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.

The site was visited by Rajat Mahur, P.E., a qualified engineer employed by Hammett & Edison, Inc., during normal business hours on May 27, 2009, and reference has been made to additional information provided by Verizon regarding the addition of LTE service, including drawings by Foresight Land Surveying & Civil Engineering, dated March 18, 2009.

**Checklist**

1. The location of all existing antennas and facilities at site. Existing RF levels.

Installed for Verizon were directional panel antennas mounted to the sides of two tall steel PG&E lattice towers inside a locked force enclosure located at 1135 Evans Avenue. Existing RF levels at ground near the site measured less than 3% of the most restrictive public exposure limit. Also observed at the site were similar antennas mounted on the towers for use by T-Mobile and by Sprint Nextel, other wireless telecommunications carriers.

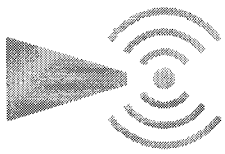
2. The location of all approved but not installed antennas and facilities. Expected RF levels from approved antennas.

No other WTS facilities are reported to be approved for this site, but not yet installed.

HAMMETT & EDISON, INC.  
 CONSULTING ENGINEERS  
 SAN FRANCISCO

VW161761599  
 Page 1 of 3

# NOTICE



Radio frequency fields beyond this point may exceed the FCC general public exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Manufactured by Verizon Wireless. Copyright 2009. All rights reserved. PS&L#123810

SITE NO. PS&L#123810

## CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS SHOWN ON SHEET A-1



## NOTICE

- GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS**
- All personnel should have electromagnetic energy (EMF) awareness training.
  - All personnel entering this site must be authorized copy of posted signs.
  - Assume all antennas are active during the working hours unless notified by appropriate team members.
  - Maintain minimum 7 feet clearance from all antennas. Do not stop in front of antennas. Use personal RF monitors while working near antennas.
  - Never operate transmitters without shields during normal operation.
  - Do not operate base station antennas in equipment rooms.

## CAUTION SIGN

### SIGNAGE MOUNTING NOTES:

SIGNS SHALL BE SECURELY FASTENED AT LOCATIONS SHOWN ON THE PLANS IN SUCH A MANNER AS TO DETER REMOVAL, BY FORCES OF NATURE, THEFT, VANDALISM, ETC. THE CONTRACTOR SHALL INVESTIGATE THE EXISTING CONSTRUCTION MATERIAL AT THE LOCATION AT WHICH THE SIGNS ARE TO BE ATTACHED AND DETERMINE THE REQUIREMENTS TO PROPERLY SECURE THE SIGN AT ALL FOUR CORNERS USING THE FOLLOWING GUIDELINE AS A MINIMUM:

CONCRETE: 1/4 TAPPER CONCRETE ANCHOR, 2 INCH MINIMUM EMBEDMENT

METAL: #12 SHEET METAL SCREWS, 1 INCH MINIMUM EMBEDMENT

WOOD: #12 ROUND HEAD WOOD SCREWS, 1-1/2 INCH MINIMUM EMBEDMENT

BOLTING: 1/4 MACHINE SCREWS WITH LOCK WASHERS

CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPER SECUREMENT OF SIGNAGE AT THE SITE

## INFORMATION - DISCONNECT PROCEDURE

PROCEDURE TO DISCONNECT OR DE-ENERGIZE RADIO FREQUENCY (RF SIGNAL)

1. DISCONNECT POWER AT MAIN SERVICE DISCONNECT
2. DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT

Contact Verizon Wireless at 1-800-242-7622 and follow their instructions prior to performing any maintenance or repairs closer than 3 feet from the antennas.

This is Verizon Wireless Site: PS&L 123810

Verizon Wireless

### NOTES:

1. SIGN SHALL BE A PNEUMATIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERS. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERS.
2. CONTRACTOR TO PLACE SIGNS IN THE FOLLOWING LOCATIONS: BATTERY LOCATION WITH PROMINENT OF BATTERY DISCONNECT, FCC ROOM WITH PROMINENT OF THE FIRE ALARM PANEL, AND THE BUILDING MAIN ELECTRICAL ROOM WITH PROMINENT OF THE MAIN SWITCHER.

## BATTERY DISCONNECT SIGN

## EMERGENCY SHUT DOWN

FOR IMMEDIATE SHUTDOWN OF ALL RADIO FREQUENCY EMISSIONS OF THIS SITE, PLEASE CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.

CONTACT PHONE NUMBER:  
1-800-242-7622

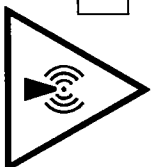
SITE IDENTIFICATION NUMBER:  
PS&L#123810

LOCATION OF EQUIPMENT:

- ROOFTOP
  - OTHER
- THIS EQUIPMENT HAS BATTERY BACKUP:
- ROOFTOP
  - OTHER

## CAUTION SIGN

## NOTICE TO WORKERS



RADIO FREQUENCY ANTENNAS ON THIS ROOF. PLEASE EXERCISE CAUTION AROUND ANTENNAS AND OBEY POSTED SIGNS AND/OR MARKINGS. FOR ACCESS TO RESTRICTED AREAS OR FOR FURTHER INFORMATION, PLEASE CALL 1-800-242-7622 (VERIZON SITE NUMBER 123810)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

## AVISO A TRABAJADORES

EXISTEN ANTENAS DE RADIOFRECUENCIA EN ESTE TECHIDO. POR FAVOR USE PRECAUCION ALREDEDOR DE LAS ANTENAS Y OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS INFORMACION, LLAME AL TELEFONO 1-888-859-1400 (NUMERO DE SITIO PS&L 123810)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.1310

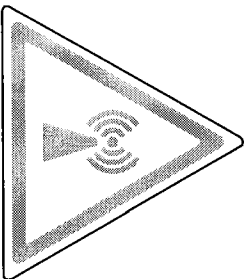
## 工作人員注意

此處屋頂有特種無線電裝置。在天線範圍內請保持小心，並遵照各已張貼之指示及/或標誌行事。如需進入禁區範圍或索取更多資料，請致電 1-888-859-1400 (現場區號: SF33x659-E)

根據 FCC 規則 47 CFR 1.1310 執行

## WARNING SIGN

# CAUTION



BEYOND THIS POINT you are entering a controlled area where RF emissions may exceed the FCC Occupational Exposure Limits. Obey all posted signs and site guidelines for working in an RF environment.

Ref: FCC 47CFR 1.1307(b)

## CAUTION SIGN

## SIGNAGE AND STRIPING INFORMATION

THE FOLLOWING INFORMATION IS A GUIDE LINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATIONS SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDE LINE OR REGULATIONS SHALL BE FOLLOWED AND OVER RIDE THE LESSER.

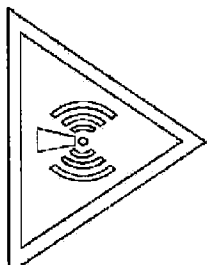
IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR THAT CANNOT BE LOCKED OR HAVING A FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDE LINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDE LINE FOR PLACEMENT OF SUCH STRIPING.

ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE A1&T CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS, AND ON ALL BARRICADES IN PLANE SITE AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNAS ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI Z39.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE VERIZON'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL, SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE VERIZON CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.



## WARNING

HIGH/ROOF FREQUENCY EXPOSURE AREA

KEEP BACK 7 FEET FROM THIS ANTENNA. IF ACCESS IS REQUIRED WITHIN THIS DISTANCE, PLEASE CONTACT ANTENNA OWNER BEFORE APPROACHING.

ADVERTENCIA

AREA DE EXPOSICION DE ALTAS FRECUENCIAS DE RADIO

MANTENERSSE A 7 PIES DE DISTANCIA DE ESTA ANTENA. SI ES NECESARIO APROXIMARSE MAS CERCANOS CON EL PROPIETARIO DE LA ANTENA ANTES DE HACERLO.

## 警告

高頻無線電能量地區

請保持與此天線 7 呎以外，如需進入此範圍內，請在進入之前先聯絡天線的所有人。

PHONE NUMBER/NUMERO DE TELEFONO: 161761

TOPPER JOHNASTON, (415) 705-5500

OWNER/PROPIETARIO/ 主人: 161761

SITE NUMBER/NUMERO DEL SITIO: 161761

Hemmel & Eskin, Inc.

# Foresight

Land Surveying & Civil Engineering

Jim Schuricht  
ph: 925-389-8180  
email: foresight@comcast.net

NSA WIRELESS, INC.  
Bishop Ranch 15 1st Floor  
12647 Alcosta Blvd, Suite 110  
San Ramon, CA 94583  
Office: 925-244-1890  
Fax: 925-555-0672



2785 MITCHELL DRIVE, BLDG 9  
WALNUT CREEK, CA 94598  
OFFICE: (925) 279-6000  
JAY INOUÉ  
(925) 279-6391

PS&L NO. 161761  
INDIA BASIN  
1135 EVANS AVENUE  
SAN FRANCISCO, CA 94124  
SAN FRANCISCO COUNTY

VERIZON WIRELESS EQUIP. ENGINEER:

SIGNATURE DATE  
VERIZON WIRELESS REAL ESTATE:

SIGNATURE DATE  
VERIZON WIRELESS CONSTRUCTION:

SIGNATURE DATE  
VERIZON WIRELESS RF ENGINEER:

SIGNATURE DATE  
PROPERTY OWNER:

SIGNATURE DATE

DRAWN BY CHECKED BY

NO.	DATE	ISSUE
A	3/18/09	FOR REVIEW
0	06/09/09	PER REDLINES
1	06/22/09	100%

SHEET TITLE

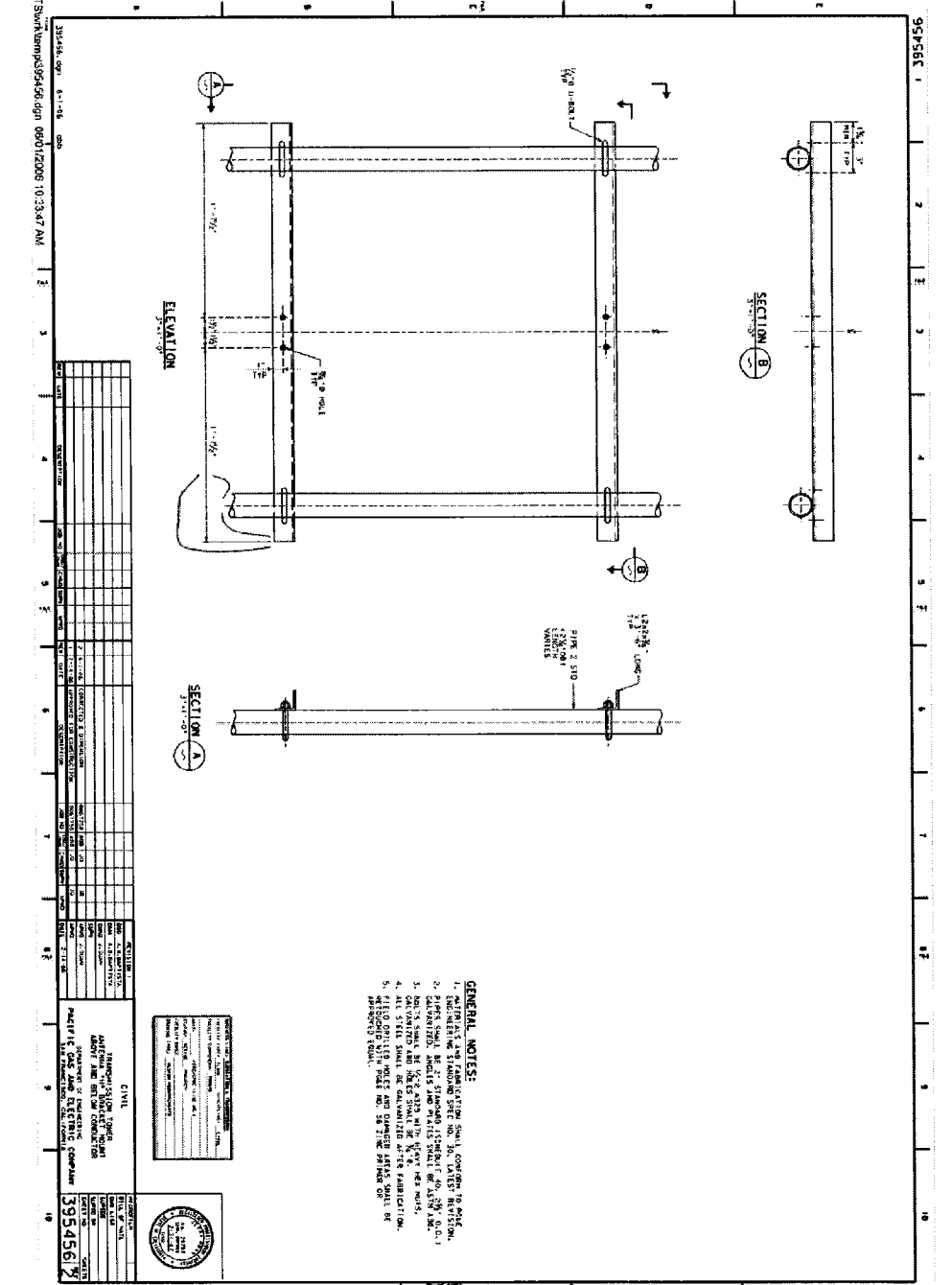
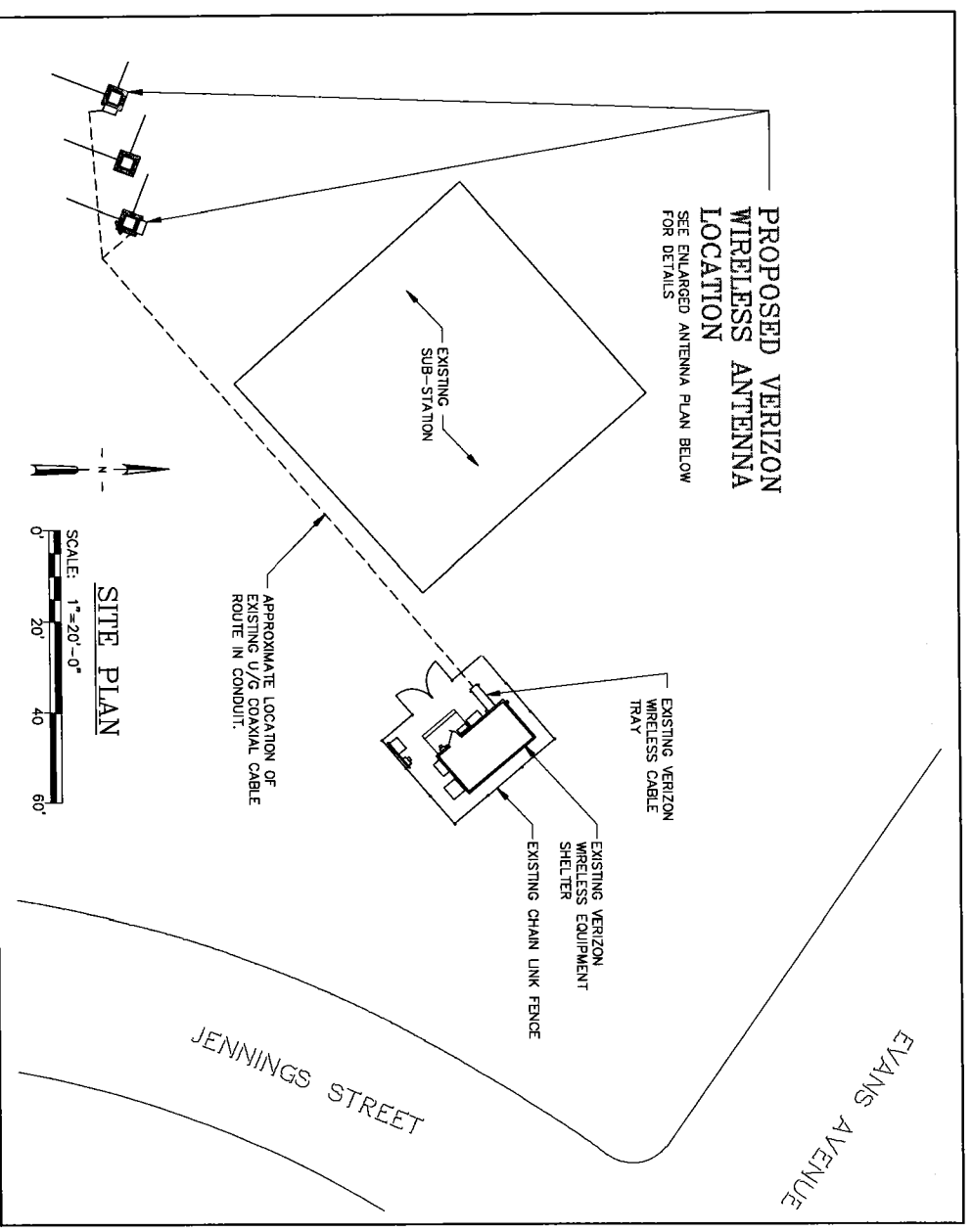
SITE SIGNAGE

SHEET NUMBER

T-4

FORESIGHT JOB # 500906





- GENERAL NOTES:**
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF PUBLIC UTILITIES, AND THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION.
  2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF PUBLIC UTILITIES, AND THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION.
  3. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF PUBLIC UTILITIES, AND THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION.
  4. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF PUBLIC UTILITIES, AND THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION.
  5. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SAN FRANCISCO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF PUBLIC UTILITIES, AND THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION.

NO.	DATE	ISSUE
1	06/22/09	100%



SIGNATURE	DATE	
DRAWN BY	CHECKED BY	
PAM		
NO.	DATE	ISSUE
A	3/18/09	FOR REVIEW
0	06/09/09	PER REDLINES
1	06/22/09	100%

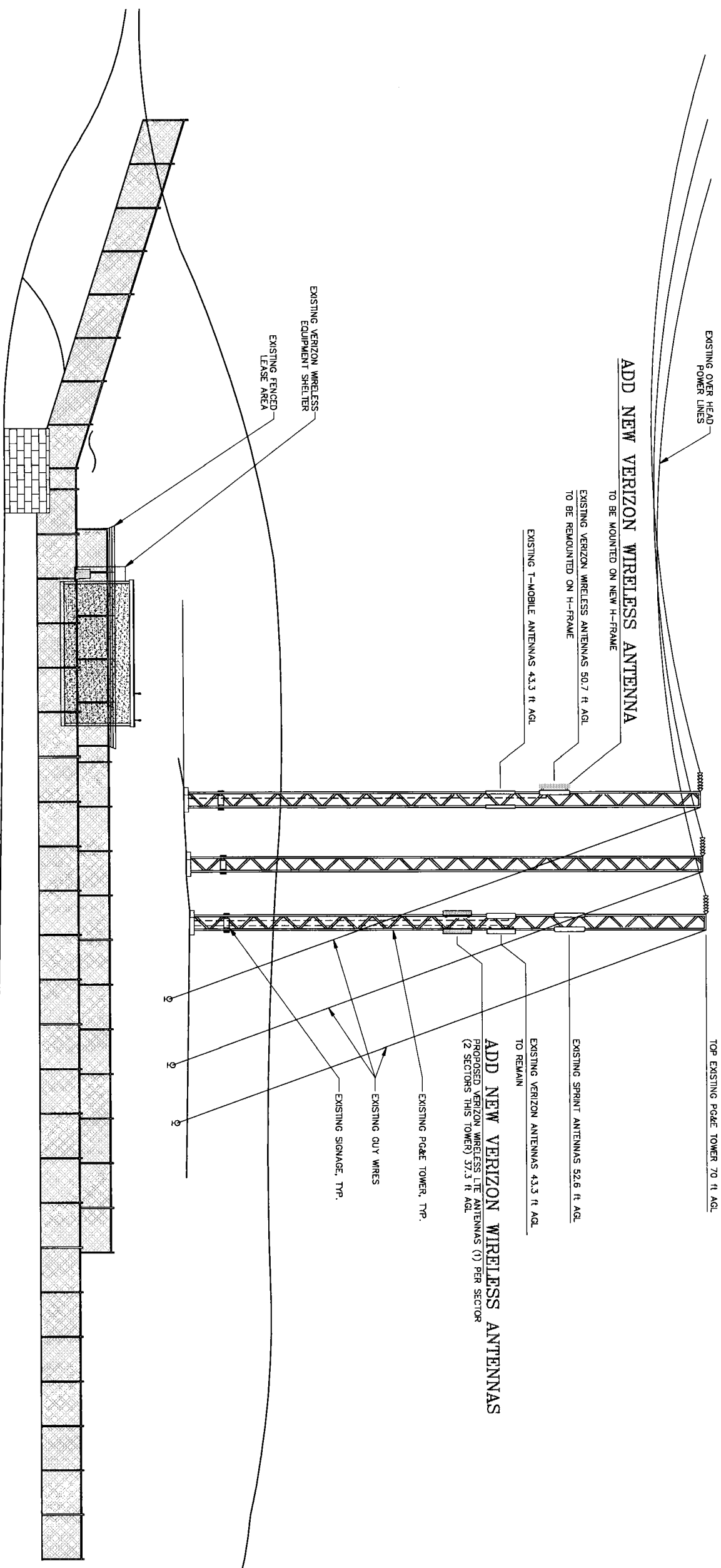
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ELEVATION  
 VIEW

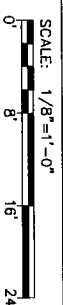
SHEET NUMBER

A-2

FORESIGHT JOB # 500906



NORTHEAST ELEVATION





2785 MITCHELL DRIVE, BLDG 9  
 WALNUT CREEK, CA 94598  
 OFFICE: (925) 279-6000  
 JAY INOUYE  
 (925) 279-6391

PSL NO. 161761  
 INDIA BASIN  
 1135 EVANS AVENUE  
 SAN FRANCISCO, CA 94124  
 SAN FRANCISCO COUNTY

VERIZON WIRELESS  
 EQUIP. ENGINEER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIZON WIRELESS  
 REAL ESTATE:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIZON WIRELESS  
 CONSTRUCTION:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIZON WIRELESS  
 RF ENGINEER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 PROPERTY OWNER:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
 PGM \_\_\_\_\_

NO.	DATE	ISSUE
A	3/18/09	FOR REVIEW
0	06/09/09	PER REDLINES
1	06/22/09	100%

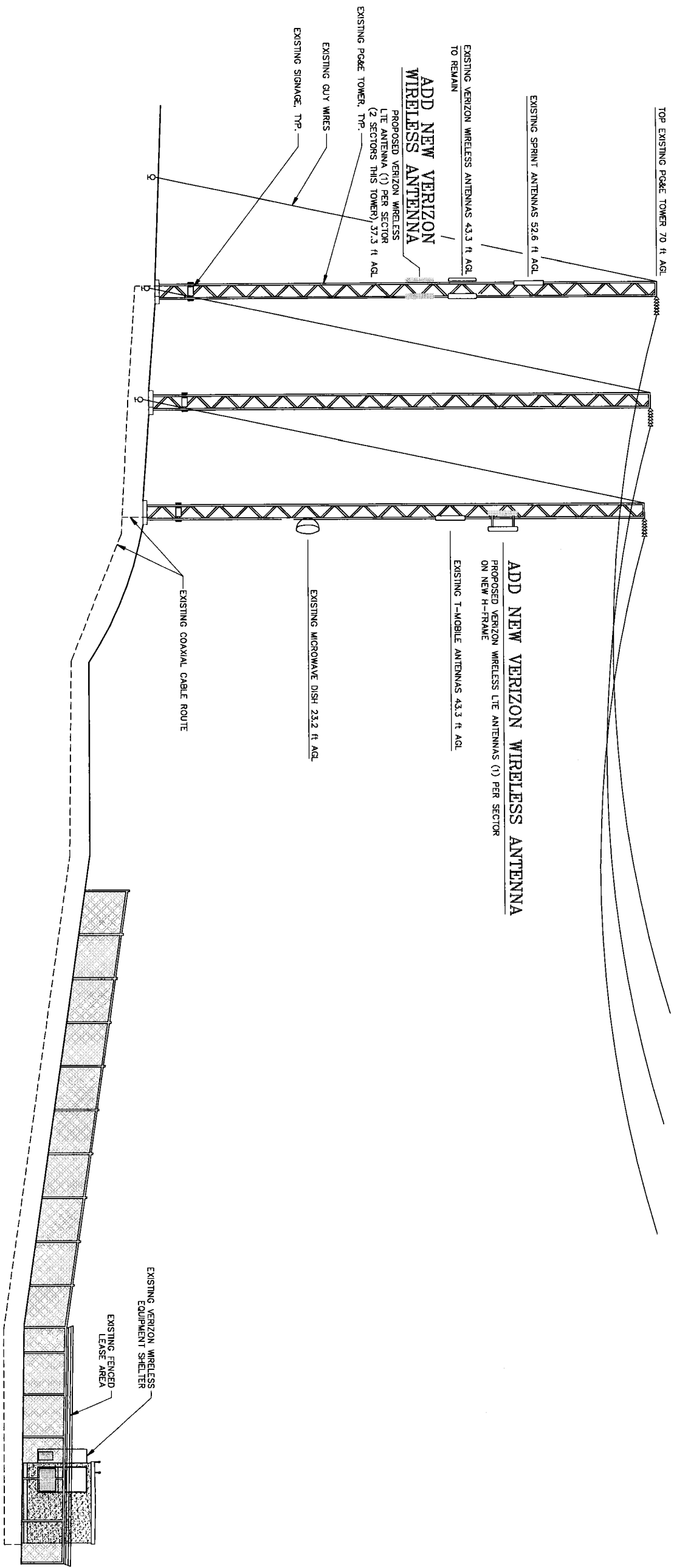
SHEET TITLE

ELEVATION  
 VIEW

SHEET NUMBER

A-3

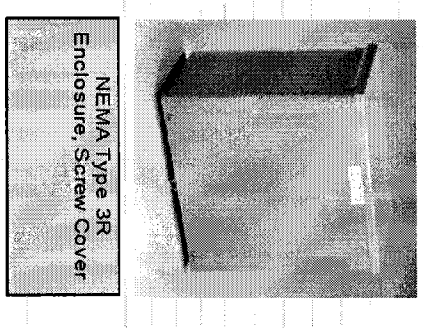
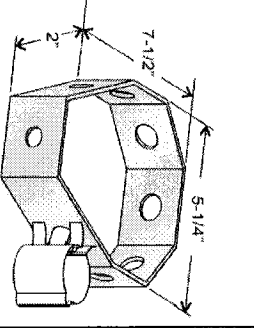
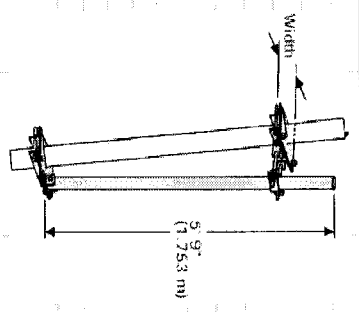
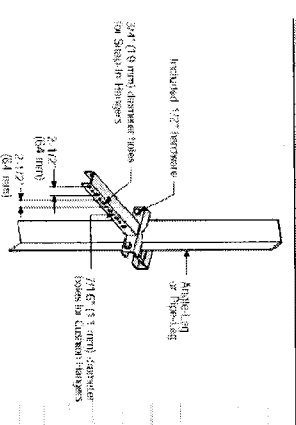
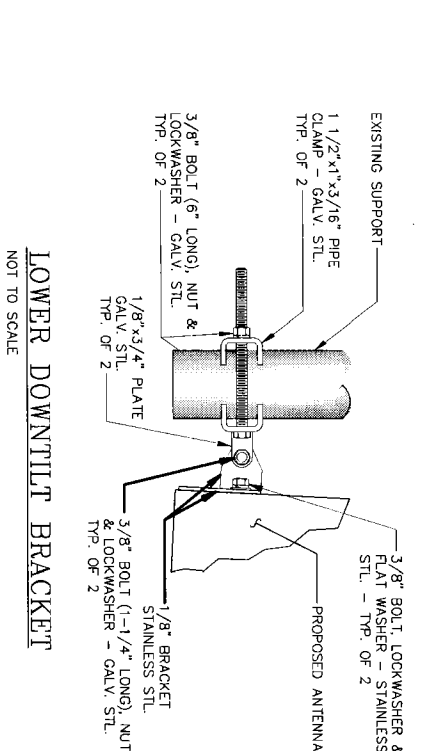
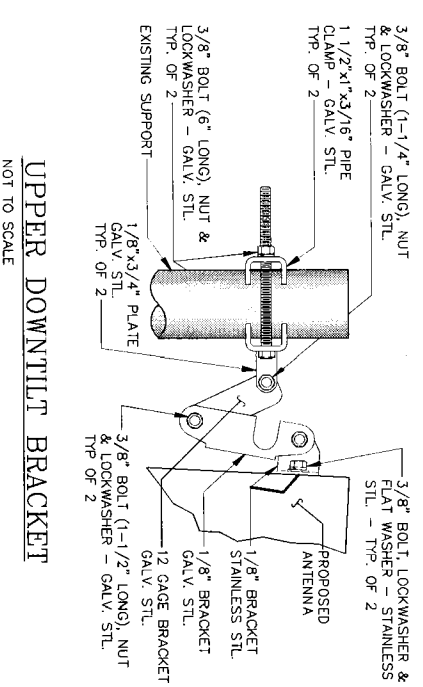
FORESIGHT JOB # 500906



SOUTHEAST ELEVATION  
 SCALE: 1/8"=1'-0"  
 0 8 16 24'

DESIGN CONFORMS TO THE CALIFORNIA BUILDING CODE, 2007 EDITION.

1. THE CONTRACTOR SHALL NOTIFY FORESIGHT (WHERE REQUIRED) OF ANY ERRORS, OMISSIONS, OR INCONSISTENCIES AS THEY MAY BE DISCOVERED IN PLANS, DOCUMENTS, NOTES, OR SPECIFICATIONS PRIOR TO STARTING CONSTRUCTION INCLUDING, BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS THE POTENTIAL TO AFFECT THE SAFETY, HEALTH, OR ENVIRONMENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO RECTIFY THE SITUATION BY THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE DESIGN GROUP.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO FORESIGHT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUB-CONTRACTOR.
3. A COPY OF GOVERNING AGENCY APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW, SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE CONTRACTOR SHALL ALSO MAINTAIN A COPY OF GOVERNING AGENCY APPROVED PLANS. THE CONTRACTOR SHALL MAINTAIN A COPY OF GOVERNING AGENCY APPROVED PLANS IN GOOD CONDITION, COMPLETE WITH ALL REVISIONS, ADDED, AND/OR CHANGE ORDERS AT THE CONCLUSION OR THE WORK AS A PART OF THE AS-BUILT DRAWINGS RECORDS.
4. THE CONTRACTOR SHALL STUDY THE STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS AND CROSS CHECK THEIR DETAILS, NOTES, DIMENSIONS, AND ALL REQUIREMENTS PRIOR TO THE START OF ANY WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT AND SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
6. THE CONTRACTOR HAS THE RESPONSIBILITY OF LOCATING ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLANS, AND PROTECTING THEM FROM DAMAGE. THE CONTRACTOR OR SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR AND SUB-CONTRACTOR SHALL BEAR THE EXPENSES OF REPAIR AND/OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
7. THE REFERENCES OF THE DRAWINGS ARE FOR CONVENIENCE ONLY AND SHALL NOT LIMIT THE APPLICATION OF THE DRAWINGS OR DETAILS.
8. ALL CONSTRUCTION THROUGHOUT THE PROJECT SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS, EXCEPT WHERE EXEMPTED.
9. THE GOVERNING AGENCIES, CODE AUTHORITIES AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT. TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
10. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES. FORESIGHT IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM THIS PRACTICE. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.
11. THE PROJECT, WHEN COMPLETED SHALL COMPLY WITH LOCAL SECURITY CODES AND TITLE 24 ENERGY CONSERVATION REQUIREMENTS. (TITLE 24 WHEN APPLICABLE)
12. CONTRACTOR TO REMOVE AND/OR REPAIR ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCHING AND GENERAL CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A PROJECT LEAVE, STRAIGHT, AND TRUE ACCORDING TO THE PLANS. THE CONTRACTOR SHALL COMPARE THE LINES AND LEVELS OF THE EXISTING CONDITIONS WITH THOSE SHOWN ON THE PLANS PRIOR TO START OF ANY CONSTRUCTION.
14. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING, BLOCKING, AND/OR SLEEVES REQUIRED FOR THE INSTALLATION OF FIXTURES, MECHANICAL EQUIPMENT, PLUMBING, HARDWARE, AND FINISH ITEMS TO INSURE A PROPER AND COMPLETE JOB.
15. TRADES INVOLVED IN THE PROJECT SHALL BE RESPONSIBLE FOR THEIR OWN CUTTING, FITTING, PATCHING, ETC. SO AS TO BE RECEIVED PROPERLY BY THE WORK OF OTHER TRADES.
16. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, DEFECTIVE, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT, UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
17. THE CONTRACTOR SHALL BE REQUIRED TO PAY FOR ALL NECESSARY PERMITS AND/OR FEES WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR THEIR REPRESENTATIVE. CONTRACTOR SHALL OBTAIN AND MAKE FINAL PAYMENT FOR SAID DOCUMENTS.
18. FIRE EXTINGUISHER REQUIREMENTS SHALL BE VERIFIED WITH THE LOCAL FIRE MARSHAL.
19. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO PLACEMENT OF NEW IMPROVEMENTS
20. IF NECESSARY THE CONTRACTOR TO PROVIDE TRENCH AS REQUIRED TO INSTALL BOTH ELECTRICAL AND TELEPHONE UNDERGROUND CONDUITS (40 PVD). BACKFILL WITH CLEAN SAND AND COMPACT TO THE SATISFACTION OF THE DISTRICTS INSPECTOR. REPLACE FINISH GRADE WITH MATCHING MATERIALS (GRASS, ASPHALT, CONCRETE, ETC.).
21. IF NECESSARY THE CONTRACTOR TO PROVIDE HEAVY STEEL PLATES AT OPEN TRENCHES FOR SAFETY AND TO PROTECT EXISTING GROUND SURFACES FROM HEAVY EQUIPMENT UTILIZED DURING CONSTRUCTION.
22. IF NECESSARY THE CONTRACTOR TO PATCH AND REPAIR ALL GROUND SURFACES WITHIN THE CONSTRUCTION AREA AS NECESSARY TO PROVIDE A UNIFORM SURFACE AND MAINTAIN EXISTING SURFACE DRAINAGE SLOPES.



UNIVERSAL SMART-IN BRACKET 16 RUNS			
Part#	Dimensions	Material	Notes
B 2282	2.12" x 2.12" x 0.6"	1.5" x 1.5" x 0.0	
B 2283	5.1" x 10.5" x 0.4"	5.1" x 10.5" x 0.4"	
B 2284	8.1" x 10.5" x 0.4"	8.1" x 10.5" x 0.4"	

ADJUSTABLE SLOPE PIPE MOUNT			
Part#	Dimensions	Material	Notes
B 1713	2.02" x 2.02" x 0.4"	2.02" x 2.02" x 0.4"	
B 1714	4.1" x 10.5" x 0.4"	4.1" x 10.5" x 0.4"	
B 1715	8.1" x 10.5" x 0.4"	8.1" x 10.5" x 0.4"	

BRACKET MOUNTING HOLES IS 9/16" (MOUNTING HARDWARE AND SCREWS ORDERED SEPARATELY)

A MINIMUM OF 4-10 BRACKETS ARE NEEDED (depending on antenna mounting location).

Station is to be installed inside of HOFFMAN BOX (8"x8"x6") Part# ABR86 for shutdown of cell antennas. When Microwave antenna is used, requires additional station to be installed in box.

Components can be ordered at Pough Electric Supply 1155 Bryant St, S.F. 415-431-6300

\*H\* Bracket must be fabricated from listed material and is required where 6 or more antennas are installed.

**Foresight**  
Land Surveying & Civil Engineering  
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**NSA WIRELESS, INC.**  
Bishop Ranch 15 1st Floor  
12647 Accosta Blvd, Suite 110  
San Ramon, CA 94583  
Office: 925-244-1890  
Fax: 925-355-0672

**Verizon wireless**

2795 MITCHELL DRIVE, BLDG 9  
WALKER CREEK, CA 94598  
OFFICE: (925) 279-6000  
JAY INDOVE  
(925) 279-6391

PSL NO. 161761  
INDIA BASIN  
1135 EVANS AVENUE  
SAN FRANCISCO, CA 94124  
SAN FRANCISCO COUNTY

VERIZON WIRELESS  
EQUIP. ENGINEER:

SIGNATURE DATE  
VERIZON WIRELESS  
REAL ESTATE:

SIGNATURE DATE  
VERIZON WIRELESS  
CONSTRUCTION:

SIGNATURE DATE  
VERIZON WIRELESS  
RF ENGINEER:

SIGNATURE DATE  
PROPERTY OWNER:

SIGNATURE DATE  
DRAWN BY CHECKED BY

PGM  
NO. DATE ISSUE  
A 3/18/09 FOR REVIEW  
0 06/09/09 PER REDLINES  
1 06/22/09 100%

SHEET TITLE  
GENERAL NOTES  
& DETAILS  
SHEET NUMBER

A-4

FORESIGHT JOB # 500906