



SAN FRANCISCO PLANNING DEPARTMENT

Executive Summary Conditional Use Authorization

HEARING DATE: JULY 28, 2011

Date: July 21, 2011
Case No.: 2010.0038C
Project Address: 888 Innes Avenue
Current Zoning: NC-2 (Small-Scale Neighborhood Commercial) District
40-X Height and Bulk District
Block/Lot: 4645 / 014
Project Sponsor: Sylvia Do for MetroPCS
115 Sansome Street, Suite 1400B
San Francisco, CA 94104
Staff Contact: Erika S. Jackson – (415) 558-6363
erika.jackson@sfgov.org
Recommendation: **Approval with Conditions**

1650 Mission St.
Suite 400
San Francisco,
CA 94103-2479

Reception:
415.558.6378

Fax:
415.558.6409

Planning
Information:
415.558.6377

PROJECT DESCRIPTION

The proposal is to install a wireless telecommunications facility consisting of three new panel antennas and two new equipment cabinets on the rooftop of an existing commercial building that is approximately 20 feet tall. The proposal is part of a wireless transmission network operated by MetroPCS. The antennas measure 49.4" high by 2.7" deep by 11.8" wide. The antennas would be mounted within a faux vent and setback approximately 9 feet from the front façade and 20 feet from the side facades. Equipment cabinets would be located within a shed on the rooftop along the southeast side building facade. The proposal will also remove two existing panel antennas operated by MetroPCS. These antennas are located within a faux vent that is located at the northwest corner of the building. The *WTS Facilities Siting Guidelines* identify different types of buildings for the siting of wireless telecommunications facilities. Under the *Guidelines*, the Project is a Location Preference 4 (Preferred Location – Industrial or Commercial Structures).

SITE DESCRIPTION AND PRESENT USE

The site is occupied by a commercial building that is approximately 20 feet tall and was constructed in 1986. The building is occupied by a commercial awning business. The building is located in an NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District. The lot is approximately 3,750 square feet and has street frontage only on Innes Avenue.

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is located within the Bayview / Hunter's Point Neighborhood. The subject site is zoned NC-2, which is described in the Planning Code as designed as linear shopping streets which provide convenience goods and services to the surrounding neighborhoods and limited shopping goods for a wider market. A pattern of single-story industrial warehouses and commercial buildings with some

single-story residences exists in the neighborhood. The overall density of dwelling units is low, however, there are some multi-family housing buildings. Immediately adjacent to the project site are single-story commercial buildings, a vacant lot, and the India Basin area of the San Francisco Bay.

ENVIRONMENTAL REVIEW

The project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption. 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.

HEARING NOTIFICATION

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	July 8, 2011	July 8, 2011	20 days
Posted Notice	20 days	July 8, 2011	July 8, 2011	20 days
Mailed Notice	20 days	July 8, 2011	June 30, 2011	28days

PUBLIC COMMENT

As of July 20, 2011, the Department has received no comments regarding the proposed project.

REQUIRED COMMISSION ACTION

In order for the project to proceed, the Commission may grant the Conditional Use authorization pursuant to Planning Code Sections 711.83, 303, and 790.80 to allow the installation of wireless facilities.

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 project complies with the applicable requirements of the Planning Code.
- The project is consistent with the objectives and policies of the General Plan.
- The Project is consistent with the 1996 WTS Facilities Siting Guidelines, Planning Commission Resolution No. 14182.
- The project site is a Location Preference 4, a preferred location, according to the Wireless Telecommunications Services (WTS) Siting Guidelines.
- The project will improve coverage for an area where there is currently poor cell phone coverage.

RECOMMENDATION: Approval with Conditions
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ATTACHMENTS

- | | |
|---|--|
| <input checked="" type="checkbox"/> Executive Summary | <input checked="" type="checkbox"/> Project sponsor submittal |
| <input checked="" type="checkbox"/> Draft Motion | Drawings: <u>Proposed Project</u> |
| <input checked="" type="checkbox"/> Zoning District Map | <input checked="" type="checkbox"/> Check for legibility |
| <input checked="" type="checkbox"/> Parcel Map | <input checked="" type="checkbox"/> Photo Simulations |
| <input checked="" type="checkbox"/> Sanborn Map | <input checked="" type="checkbox"/> Coverage Maps |
| <input checked="" type="checkbox"/> Aerial Photo | <input checked="" type="checkbox"/> RF Report |
| <input checked="" type="checkbox"/> Context Photos | <input checked="" type="checkbox"/> DPH Approval |
| <input checked="" type="checkbox"/> Site Photos | <input checked="" type="checkbox"/> Community Outreach Meeting Documents |

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

_____ Planner's Initials

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SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)

- Affordable Housing (Sec. 415)
- Jobs Housing Linkage Program (Sec. 413)
- Downtown Park Fee (Sec. 412)
- First Source Hiring (Admin. Code)
- Child Care Requirement (Sec. 414)
- Other

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Planning Commission Motion No. XXXXX

HEARING DATE: JULY 28, 2011

Date: July 21, 2011
Case No.: **2010.0038C**
Project Address: **888 Innes Avenue**
Current Zoning: NC-2 (Small-Scale Neighborhood Commercial) District
 40-X Height and Bulk District
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ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 711.83, 303, AND 790.80 TO INSTALL A WIRELESS TELECOMMUNICATIONS FACILITY CONSISTING OF THREE NEW PANEL ANTENNAS AND TWO NEW EQUIPMENT CABINETS ON THE ROOFTOP OF AN EXISTING SINGLE-STORY COMMERCIAL BUILDING THAT IS APPROXIMATELY 20 FEET TALL WITHIN AN NC-2 (SMALL-SCALE NEIGHBORHOOD COMMERCIAL) ZONING DISTRICT, AND A 40-X HEIGHT AND BULK DISTRICT.

PREAMBLE

On January 21, 2010, MetroPCS (hereinafter "Project Sponsor"), made an application (hereinafter "application"), for Conditional Use Authorization on the property at 888 Innes Avenue, Lot 014 in Assessor's Block 4645, (hereinafter "Project Site") to install a wireless telecommunications facility consisting three new panel antennas and two new equipment cabinets on the rooftop of the existing single-story commercial building as part of MetroPCS's wireless telecommunications network within a NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District.

The project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption. 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 (hereinafter "Department"), as the custodian of records, at 1650 Mission Street, San Francisco.

On July 28, 2011, the San Francisco Commission (hereinafter "Commission") conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use authorization.

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. 2010.0038C, 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 site is occupied by a commercial building that is approximately 20 feet tall and was constructed in 1986. The building is occupied by a commercial awning business. The building is located in an NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District. The lot is approximately 3,750 square feet and has street frontage only on Innes Avenue.
3. **Surrounding Properties and Neighborhood.** The Project Site is located within the Bayview / Hunter's Point Neighborhood. The subject site is zoned NC-2, which is described in the Planning Code as designed as linear shopping streets which provide convenience goods and services to the surrounding neighborhoods and limited shopping goods for a wider market. A pattern of single-story industrial warehouses and commercial buildings with some single-story residences exists in the neighborhood. The overall density of dwelling units is low, however, there are some multi-family housing buildings. Immediately adjacent to the project site are single-story commercial buildings, a vacant lot, and the India Basin area of the San Francisco Bay.
4. **Project Description.** The proposal is to install a wireless telecommunications facility consisting of three new panel antennas and two new equipment cabinets on the rooftop of an existing commercial building that is approximately 20 feet tall. The proposal is part of a wireless transmission network operated by MetroPCS. The antennas measure 49.4" high by 2.7" deep by 11.8" wide. The antennas would be mounted within a faux vent and setback approximately 9 feet from the front façade and 20 feet from the side facades. Equipment cabinets would be located within a shed on the rooftop along the southeast side building facade. The proposal will also remove two existing panel antennas operated by MetroPCS. These antennas are located within a faux vent that is located at the northwest corner of the building. The *WTS Facilities Siting Guidelines* identify different types of buildings for the siting of wireless telecommunications facilities. Under the *Guidelines*, the Project is a Location Preference 4 (Preferred Location – Industrial or Commercial Structures).

5. **Past History and Actions.** The Planning Commission established guidelines for the installation of wireless telecommunications facilities in 1996 ("Guidelines"). These Guidelines set forth the land use policies and practices that guide the installation and approval of wireless facilities throughout San Francisco. A large portion of the Guidelines was dedicated to establishing location preferences for these installations. The Board of Supervisors, in Resolution No. 635-96, provided input as to where wireless facilities should be located within San Francisco. The Guidelines were updated by the Commission in 2003, requiring community outreach, notification, and detailed information about the facilities to be installed.¹

Section 8.1 of the Guidelines outlines Location Preferences for wireless facilities. There are five primary areas where the installation of wireless facilities should be located:

1. Publicly-used Structures: such facilities as fire stations, utility structures, community facilities, and other public structures;
2. Co-Location Site: encourages installation of facilities on buildings that already have wireless installations;
3. Industrial or Commercial Structures: buildings such as warehouses, factories, garages, service stations;
4. Industrial or Commercial Structures: buildings such as supermarkets, retail stores, banks; and
5. Mixed Use Buildings in High Density Districts: buildings such as housing above commercial or other non-residential space.

Before the Planning Commission can review an application to install a wireless facility, the project sponsor must submit a five-year facilities plan, which must be updated biannually, an emissions report and approval by the Department of Public Health, Section 106 Declaration of Intent, a submittal checklist and details about the facilities to be installed.

Under Section 704(B)(iv) of the 1996 Federal Telecommunications Act, local jurisdictions cannot deny wireless facilities based on Radio Frequency (RF) radiation emissions so long as such facilities comply with the FCC's regulations concerning such emissions.

On July 28, 2011, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use authorization pursuant to Planning Code Sections 711.83, 303, and 790.80 to install a wireless telecommunications facility consisting three new panel antennas and two new equipment cabinets on the rooftop of an existing single-story commercial building as part of MetroPCS's wireless telecommunications network within a NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District.

¹ PC Resolution 16539, passed March 13, 2003.

6. **Location Preference.** The *WTS Facilities Siting Guidelines* identify different types of buildings for the siting of wireless telecommunications facilities. Under the *Guidelines*, the Project is a Location Preference 4 (Preferred Location – Industrial or Commercial Structures).
7. **Radio Waves Range.** The Project Sponsor has stated that the proposed wireless network will transmit calls by radio waves operating in the 1710 - 2170 Megahertz (MHZ) bands, which is 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. Pursuant to the *Guidelines*, 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.** There are 2 existing antennas operated by MetroPCS installed on the roof top of the building at 888 Innes Avenue. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. MetroPCS proposes to remove its 2 existing antennas and to install 3 new antennas. The antennas are mounted at a height of 25 feet above the ground. The estimated ambient RF field from the proposed MetroPCS transmitters at ground level is calculated to be 0.047 mW/sq cm., which is 4.7% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 18 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Workers should not have access to within 4 feet of the front of the antennas while they are in operation.
10. **Maintenance Schedule.** The proposed facility would operate without on-site staff but with a two-person maintenance crew visiting the property approximately once a month and on an as-needed basis to service and monitor the facility.
11. **Community Outreach.** Per the *Guidelines*, the project sponsor held a Community Outreach Meeting for the proposed project. The meeting was at 7:00 P.M. on May 19, 2011 at the Willie Mays Boys and Girls Club, located at 195 Kiska Road. There were 3 members of the public in attendance at the meeting.
12. **Five-year plan:** Per the *Guidelines*, the project sponsor submitted its latest five-year plan, as required, in April 2011.
13. **Public Comment.** The Department has received X comments on the project.
14. **Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the Planning Code in the following manner:

A. **Use.** Per Planning Code Sections 711.83, 303, and 790.80, a Conditional Use authorization is required for the installation of other uses such as wireless transmission facilities.

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.

i Desirable: San Francisco is a leader of the technological economy; it is important and desirable to the vitality of the city to have and maintain adequate telecommunications coverage and data capacity. This includes the installation and upgrading of systems to keep up with changing technology and increases in usage. It is desirable for the City to allow wireless facilities to be installed.

The proposed project at 888 Innes Avenue 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 nature of the vicinity. The approval of this authorization has been found, first and foremost, to insure public safety, and insure that the placement of antennas and related support and protection features are so located, designed, and treated architecturally to minimize their visibility from public places, to avoid intrusion into public vistas, avoid disruption of the architectural design integrity of building and insure harmony with neighborhood character. The project has been reviewed and determined to not cause the removal or alteration of any significant architectural features on the subject known historic resource.

ii Necessary: In the case of wireless installations, there are two criteria that the Commission reviews: coverage and capacity.

Coverage: San Francisco does have sufficient overall wireless coverage (note that this is separate from carrier service). It is necessary for San Francisco to have as much coverage as possible in terms of wireless facilities. Due to the topography and tall buildings in San Francisco, unique coverage issues arise because the hills and building break up coverage. Thus, telecommunication carriers often install additional installations to make sure coverage is sufficient.

Capacity: While a carrier may have adequate coverage in a certain area, the capacity may not be sufficient. With the continuous innovations in wireless data technology and demand placed on existing infrastructure, individual telecommunications carriers must upgrade and in some instances expand their facilities network to be able to have proper data distribution. It is necessary for San Francisco, as a leader in technology, to have adequate capacity.

The proposed project at 888 Innes Avenue is necessary in order to achieve sufficient street and in-building mobile phone coverage. Recent drive tests in the subject area conducted by the MetroPCS

Radio Frequency Engineering Team provide conclusive evidence that the subject property is the most viable location, based on factors including quality of coverage, population density, land use compatibility, zoning and aesthetics. The proposed project will improve the coverage area in the immediate vicinity. This facility will fill in the gaps to improve coverage in the India Basin area as well as to provide necessary facilities for emergency transmission and improved communication for the neighborhood, community and the 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.

The Department of Public Health conducted an evaluation of potential health effects from Radio Frequency radiation, and 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 with the facilities operating unmanned, with a single maintenance crew visiting the site once a month or on an as-needed basis.

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

While some noise and dust may result from the erection of the antennas and transceiver equipment, noise or noxious emissions from continued 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 proposed antennas are proposed to be installed on the existing rooftop and screened behind a faux vent. The proposal, located at 20 feet above grade and setback 9 feet from the front facade, is small in size and is minimally visible at the pedestrian level. The project will not affect the existing landscaping.

- 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 would not modify or preclude development that is in conformity with the purpose of the NC-2 Zoning District.

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

2004 HOUSING ELEMENT

HOUSING DENSITY, DENSITY, DESIGN & QUALITY OF LIFE

OBJECTIVE 11 - IN INCREASING THE SUPPLY OF HOUSING, PURSUE PLACE MAKING AND NEIGHBORHOOD BUILDING PRINCIPLES AND PRACTICES TO MAINTAIN SAN FRANCISCO'S DESIRABLE URBAN FABRIC AND ENHANCE LIVABILITY IN ALL NEIGHBORHOODS.

POLICY 11.2 - Ensure housing is provided with adequate public improvements, services, and amenities.

The project will improve MetroPCS Wireless coverage in residential, commercial and recreational areas along primary transportation routes in San Francisco.

2009 HOUSING ELEMENT

BALANCE HOUSING CONSTRUCTION AND COMMUNITY INFRASTRUCTURE

OBJECTIVE 12 – BALANCE HOUSING GROWTH WITH ADEQUATE INFRASTRUCTURE THAT SERVES THE CITY'S GROWING POPULATION.

POLICY 12.2 – Consider the proximity of quality of life elements, such as open space, child care, and neighborhood services, when developing new housing units.

POLICY 12.3 – Ensure new housing is sustainable supported by the City’s public infrastructure systems.

The Project will improve MetroPCS Wireless coverage in a residential, commercial and recreational area along primary transportation routes in San Francisco.

URBAN DESIGN

Objectives and Policies

OBJECTIVE 4 - IMPROVEMENT OF THE NEIGHBORHOOD ENVIRONMENT TO INCREASE PERSONAL SAFETY, COMFORT, PRIDE AND OPPORTUNITY.

POLICY 4.14 - Remove and obscure distracting and cluttering elements.

The Project adequately “stealths” the proposed antennas and related equipment by locating the antennas behind a faux vent setback 9 feet from the front façade. The antennas are minimally visible from the street. The proposed project also proposes to remove the existing two antennas that are behind a faux vent that is not setback from the front façade.

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 total 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 new 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.

OBJECTIVE 8 - ENHANCE SAN FRANCISCO'S POSITION AS A NATIONAL CENTER FOR CONVENTIONS AND VISITOR TRADE.

POLICY 8.3 - Assure that areas of particular visitor attraction are provided with adequate public services for both residents and visitors.

The Project will ensure that residents and visitors have adequate public service in the form of MetroPCS Wireless mobile telecommunications.

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 or altered in any way by the granting of this authorization.

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

The project would not adversely affect 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.

The proposed Project does not cause the removal or alteration of any significant architectural features.

- 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, 303, and 790.80 to install a wireless telecommunications facility consisting three new panel antennas and two new equipment cabinets on the rooftop of an existing single-story commercial building as part of MetroPCS's wireless telecommunications network within a NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District. The proposal is part of a wireless transmission network operated by MetroPCS on a Location Preference 4 (Preferred Location – Industrial or Commercial Structures) according to the Wireless Telecommunications Services (WTS) Siting Guidelines and is 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. 18335. 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 **July 28, 2011**.

Linda Avery
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: July 28, 2011

EXHIBIT A

AUTHORIZATION

This authorization is for a conditional use to allow a wireless telecommunications facility consisting of This approval is for Conditional Use authorization under Planning Code Sections 711.83, 303, and 790.80 to install a wireless telecommunications facility consisting three new panel antennas and two new equipment cabinets on the rooftop of an existing single-story commercial building as part of MetroPCS's wireless telecommunications network within a NC-2 (Small-Scale Neighborhood Commercial) Zoning District and a 40-X Height and Bulk District. The proposal is part of a wireless transmission network operated by MetroPCS on a Location Preference 4 (Preferred Location – Industrial or Commercial Structures) according to the Wireless Telecommunications Services (WTS) Siting Guidelines.

RECORDATION OF CONDITIONS OF APPROVAL

Prior to the issuance of the building permit or commencement of use for the Project the Zoning Administrator shall approve and order the recordation of a Notice in the Official Records of the Recorder of the City and County of San Francisco for the subject property. This Notice shall state that the project is subject to the conditions of approval contained herein and reviewed and approved by the Planning Commission on **July 28, 2011** under Motion No. XXXXX.

PRINTING OF CONDITIONS OF APPROVAL ON PLANS

The conditions of approval under the 'Exhibit A' of this Planning Commission Motion No. XXXXX shall be reproduced on the Index Sheet of construction plans submitted with the Site or Building permit application for the Project. The Index Sheet of the construction plans shall reference to the Conditional Use authorization and any subsequent amendments or modifications.

SEVERABILITY

The Project shall comply with all applicable City codes and requirements. 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 remaining clauses, sentences, or sections of these conditions. This decision conveys no right to construct, or to receive a building permit. "Project Sponsor" shall include any subsequent responsible party.

CHANGES AND MODIFICATIONS

Changes to the approved plans may be approved administratively by the Zoning Administrator. Significant changes and modifications of conditions shall require Planning Commission approval of a new Conditional Use authorization.

Conditions of approval, Compliance, Monitoring, and Reporting

PERFORMANCE

1. **Validity and Expiration.** The authorization and right vested by virtue of this action is valid for three years from the effective date of the Motion. A building permit from the Department of Building Inspection to construct the project and/or commence the approved use must be issued as this Conditional Use authorization is only an approval of the proposed project and conveys no independent right to construct the project or to commence the approved use. The Planning Commission may, in a public hearing, consider the revocation of the approvals granted if a site or building permit has not been obtained within three (3) years of the date of the Motion approving the Project. Once a site or building permit has been issued, construction must commence within the timeframe required by the Department of Building Inspection and be continued diligently to completion. The Commission may also consider revoking the approvals if a permit for the Project has been issued but is allowed to expire and more than three (3) years have passed since the Motion was approved.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org.

2. **Extension.** This authorization may be extended at the discretion of the Zoning Administrator only where failure to issue a permit by the Department of Building Inspection to perform said tenant improvements is caused by a delay by a local, State or Federal agency or by any appeal of the issuance of such permit(s).

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org.

DESIGN – COMPLIANCE AT PLAN STAGE

3. **Plan Drawings - WTS.** 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 describe:
 - 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.

For information about compliance, contact the Case Planner, Planning Department at 415-558-6613, www.sf-planning.org.

4. **Screening - WTS.** To the extent necessary For information about compliance with adopted FCC regulations regarding human exposure to RF emissions, and upon the recommendation of the Zoning Administrator, the Project Sponsor shall:
 - a. Modify the placement of the facilities;
 - b. Install fencing, barriers or other appropriate structures or devices to restrict access to the facilities;
 - c. 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;
 - d. Implement any other practice reasonably necessary to ensure that the facility is operated in compliance with adopted FCC RF emission standards.
 - e. To the extent necessary to minimize visual obtrusion and clutter, installations shall conform to the following standards:
 - f. Antennas and back up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual impacts;
 - g. Rooftop installations shall be setback such that back up facilities are not viewed from the street;
 - h. Antennae attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
 - i. 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.

For information about compliance, contact the Case Planner, Planning Department at 415-558-6613, www.sf-planning.org.

MONITORING - AFTER ENTITLEMENT

5. **Enforcement.** Violation of any of the Planning Department conditions of approval contained in this Motion or of any other provisions of Planning Code applicable to this Project shall be subject to the enforcement procedures and administrative penalties set forth under Planning Code Section 176 or Section 176.1. The Planning Department may also refer the violation complaints to other city departments and agencies for appropriate enforcement action under their jurisdiction.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

6. **Monitoring.** The Project requires monitoring of the conditions of approval in this Motion. The Project Sponsor or the subsequent responsible parties for the Project shall pay fees as established under Planning Code Section 351(e) (1) and work with the Planning Department for information about compliance.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

7. **Revocation due to Violation of Conditions.** Should implementation of this Project result in complaints from interested property owners, residents, or commercial lessees which are not resolved by the Project Sponsor and found to be in violation of the Planning Code and/or the specific Conditions of Approval for the Project as set forth in Exhibit A of this Motion, the Zoning

Administrator shall refer such complaints to the Commission, after which it may hold a public hearing on the matter to consider revocation of this authorization.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org.

8. Implementation and Monitoring Costs - WTS.

- 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.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org.

9. Implementation and Monitoring - WTS. 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.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org.

10. Project Implementation Report - WTS. 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. The Project Implementation Report shall 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 weekday with the subject equipment measured while operating at maximum power.
- d. Testing, Monitoring, and Preparation. 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.

- i. Notification and Testing. The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 2 and 4.
- ii. 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.

For information about compliance, contact the Environmental Health Section, Department of Public Health at (415) 252-3800, www.sfdph.org.

11. **Notification prior to Project Implementation Report - WTS.** The Project Sponsor shall undertake to inform and perform appropriate tests for residents of any dwelling units located within 25 feet of the transmitting antenna 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.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

12. **Installation - WTS.** 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.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

13. **Periodic Safety Monitoring - WTS.** 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.

For information about compliance, contact the Environmental Health Section, Department of Public Health at (415) 252-3800, www.sfdph.org.

OPERATION

14. **Community Liaison.** Prior to issuance of a building permit application to construct the project and implement the approved use, the Project Sponsor shall appoint a community liaison officer to deal with the issues of concern to owners and occupants of nearby properties. The Project Sponsor shall provide the Zoning Administrator written notice of the name, business address, and telephone number of the community liaison. Should the contact information change, the Zoning Administrator

shall be made aware of such change. The community liaison 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.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

15. **Out of Service – WTS.** The Project Sponsor or Property Owner shall remove antennae and equipment that has been out of service or otherwise abandoned for a continuous period of six months.

For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

16. **Emissions Conditions – WTS.** 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.

For information about compliance, contact the Environmental Health Section, Department of Public Health at (415) 252-3800, www.sfdph.org.

17. **Noise and Heat – WTS.** The WTS facility, including power source and cooling facility, shall be operated at all times within the limits of the San Francisco Noise Control Ordinance. The WTS facility, including power source and any heating/cooling facility, shall not be operated so as to cause the generation of heat that adversely affects a building occupant.

For information about compliance, contact the Environmental Health Section, Department of Public Health at (415) 252-3800, www.sfdph.org.

18. **Transfer of Operation – WTS.** 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.

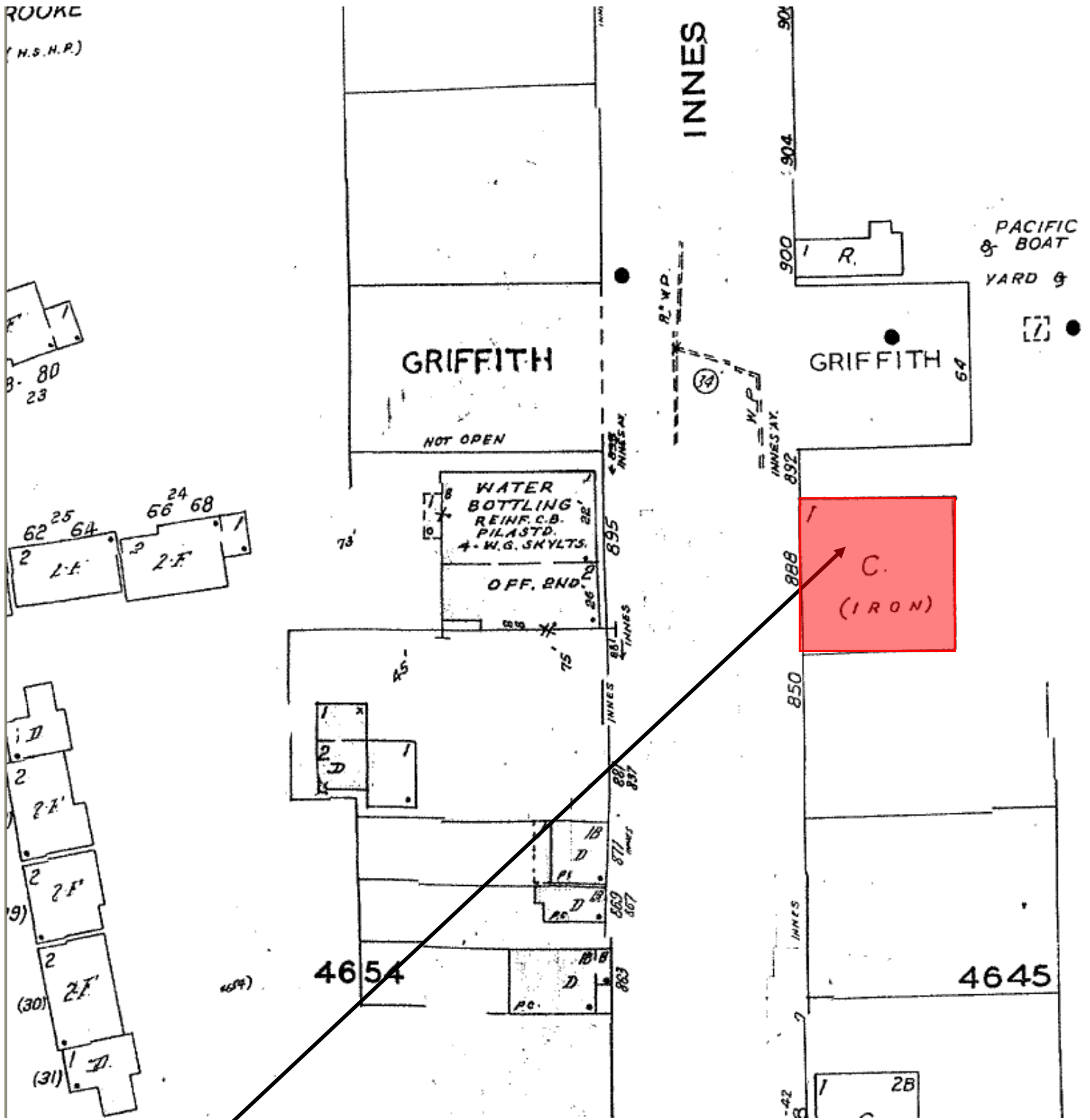
For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

19. **Compatibility with City Emergency Services – WTS.** The facility shall not be operated or 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.

For information about compliance, contact the Department of Technology, 415-581-4000, <http://sfgov3.org/index.aspx?page=1421>

Sanborn Map*

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



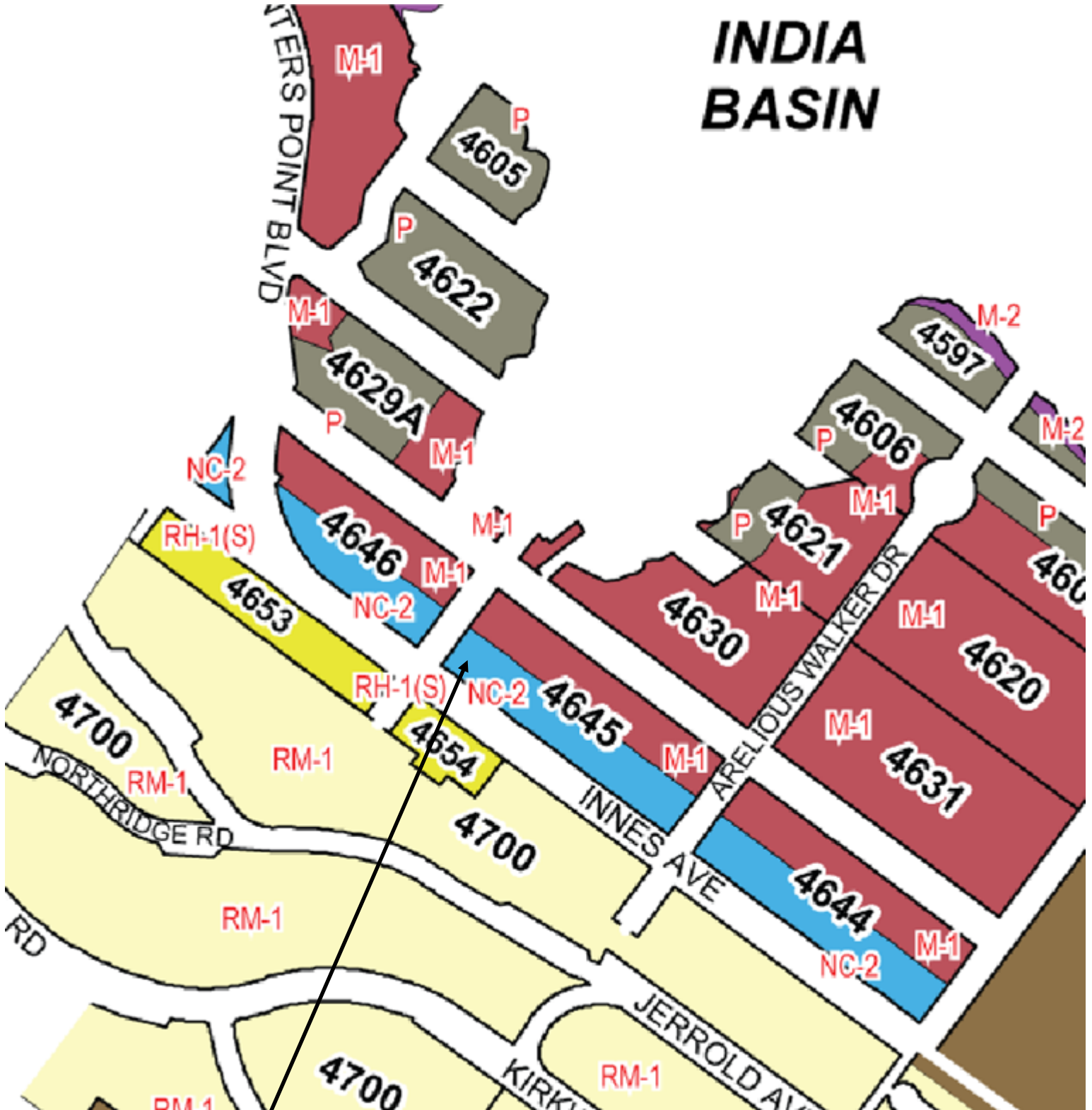
SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Zoning Map

INDIA BASIN



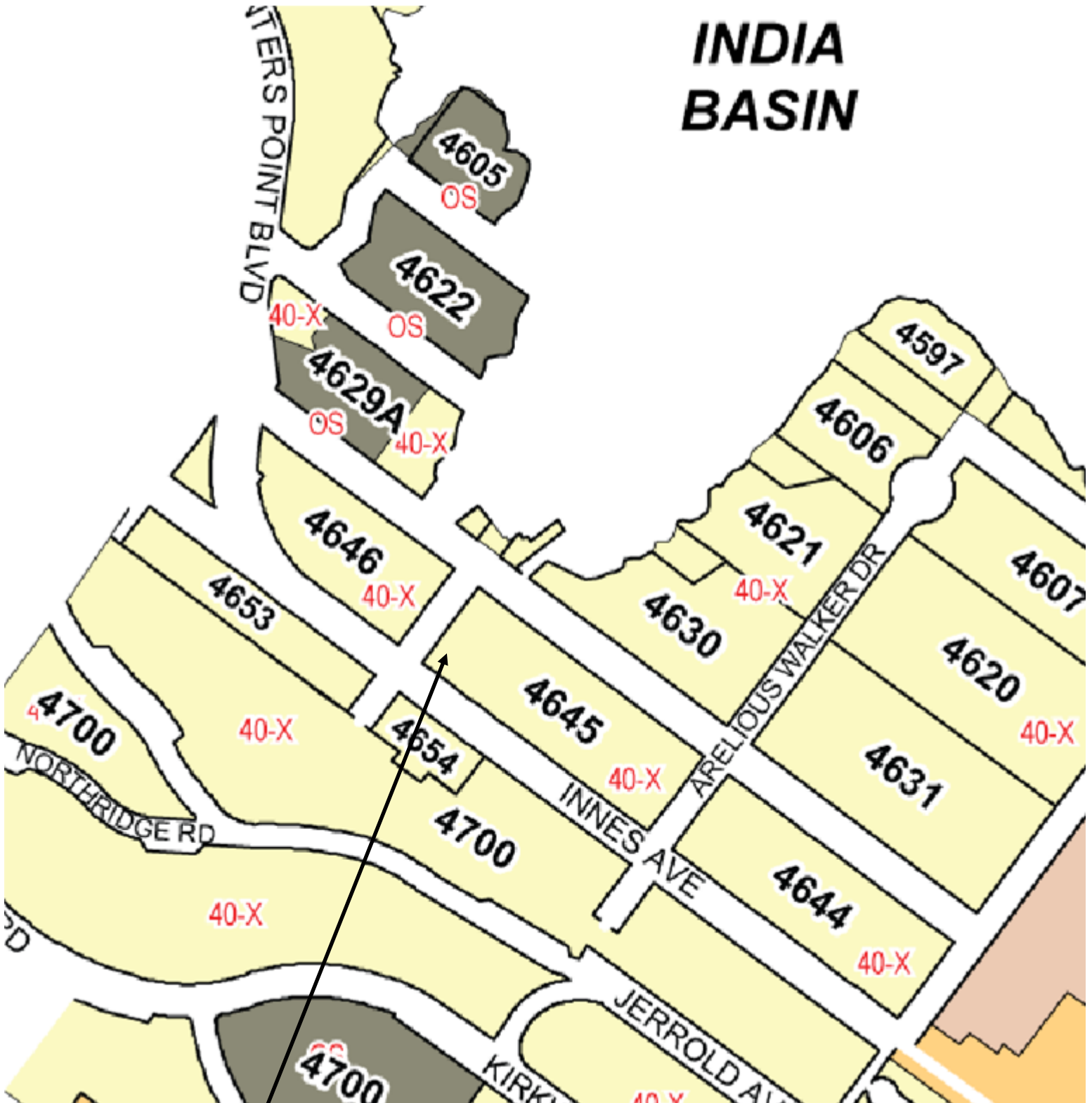
SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Height & Bulk Map

INDIA BASIN

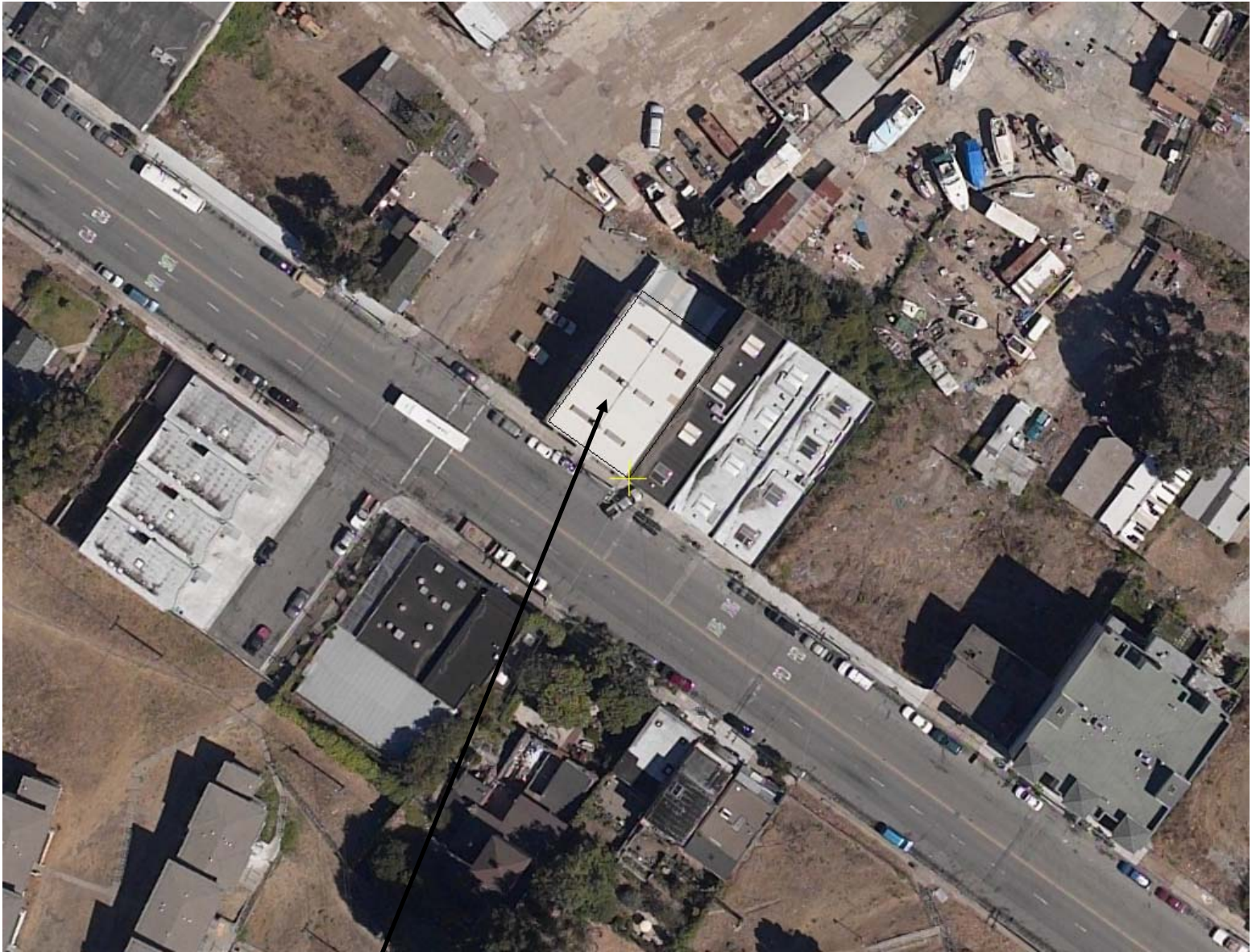


SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Aerial Photograph – Site View



SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Aerial Photograph – Looking South



SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Aerial Photograph – Looking West



SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Aerial Photograph – Looking North



SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Aerial Photograph – Looking East



SUBJECT PROPERTY



Conditional Use Hearing
Case Number 2010.0038C
888 Innes Avenue
4645 / 014

Existing



Existing Metro PCS
Installation To
Be Removed

Proposed



Proposed Metro PCS
Installation

view from Innes Avenue looking northwest at site

metroPCS

SF05690A Zebra Awning
888 Innes Avenue, San Francisco, CA

Existing



Proposed



view from Griffith Street looking northeast at site

metroPCS SF05690A Zebra Awning
888 Innes Avenue, San Francisco, CA

Existing



*Existing Metro PCS
Installation To
Be Removed*

Proposed



*Proposed Metro PCS
Installation*

view from Innes Avenue looking east at site

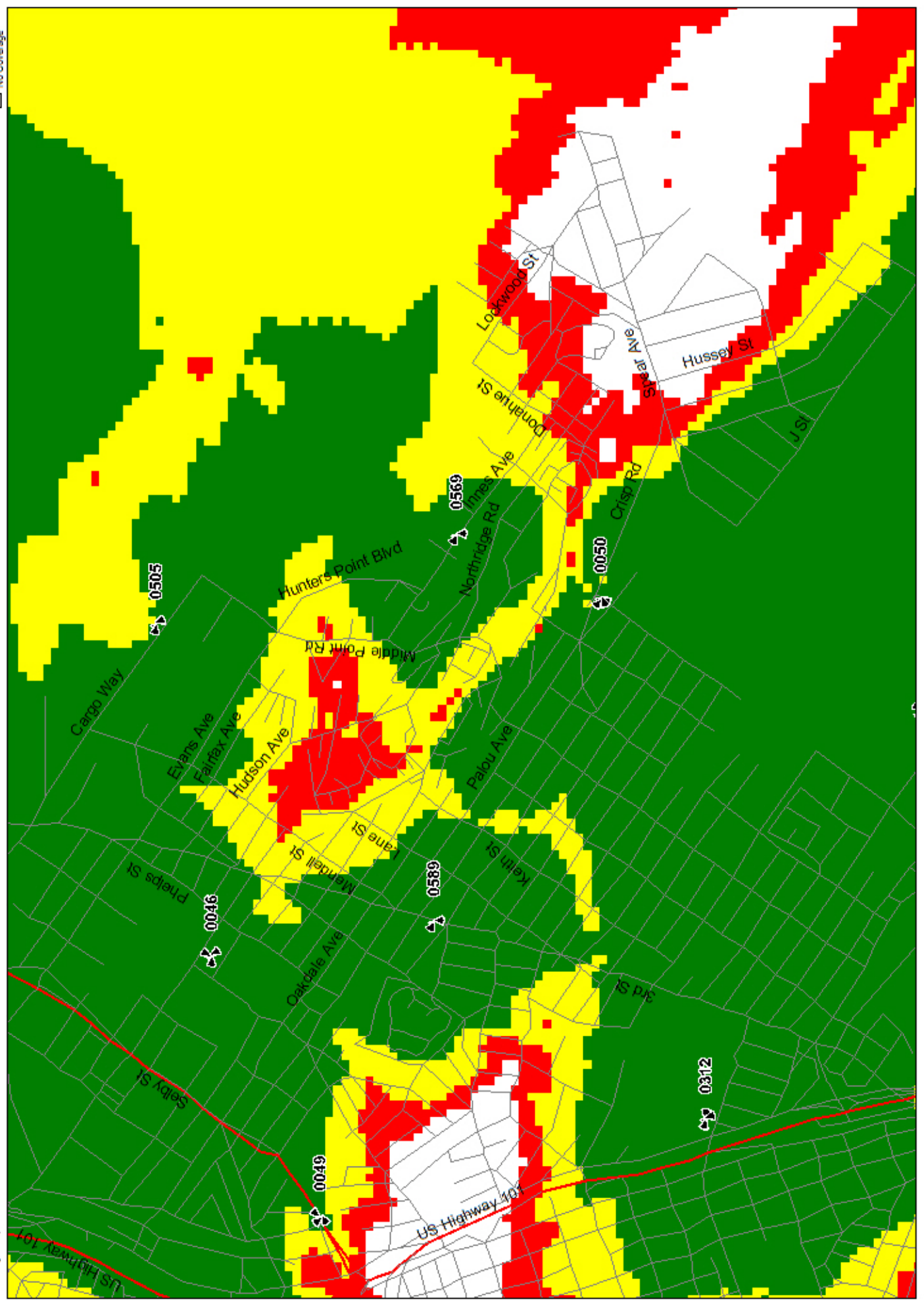
metroPCS

SF05690A Zebra Awning
888 Innes Avenue, San Francisco, CA

Coverage Legend
In-Building
In-Vehicle
Outdoor
No Coverage

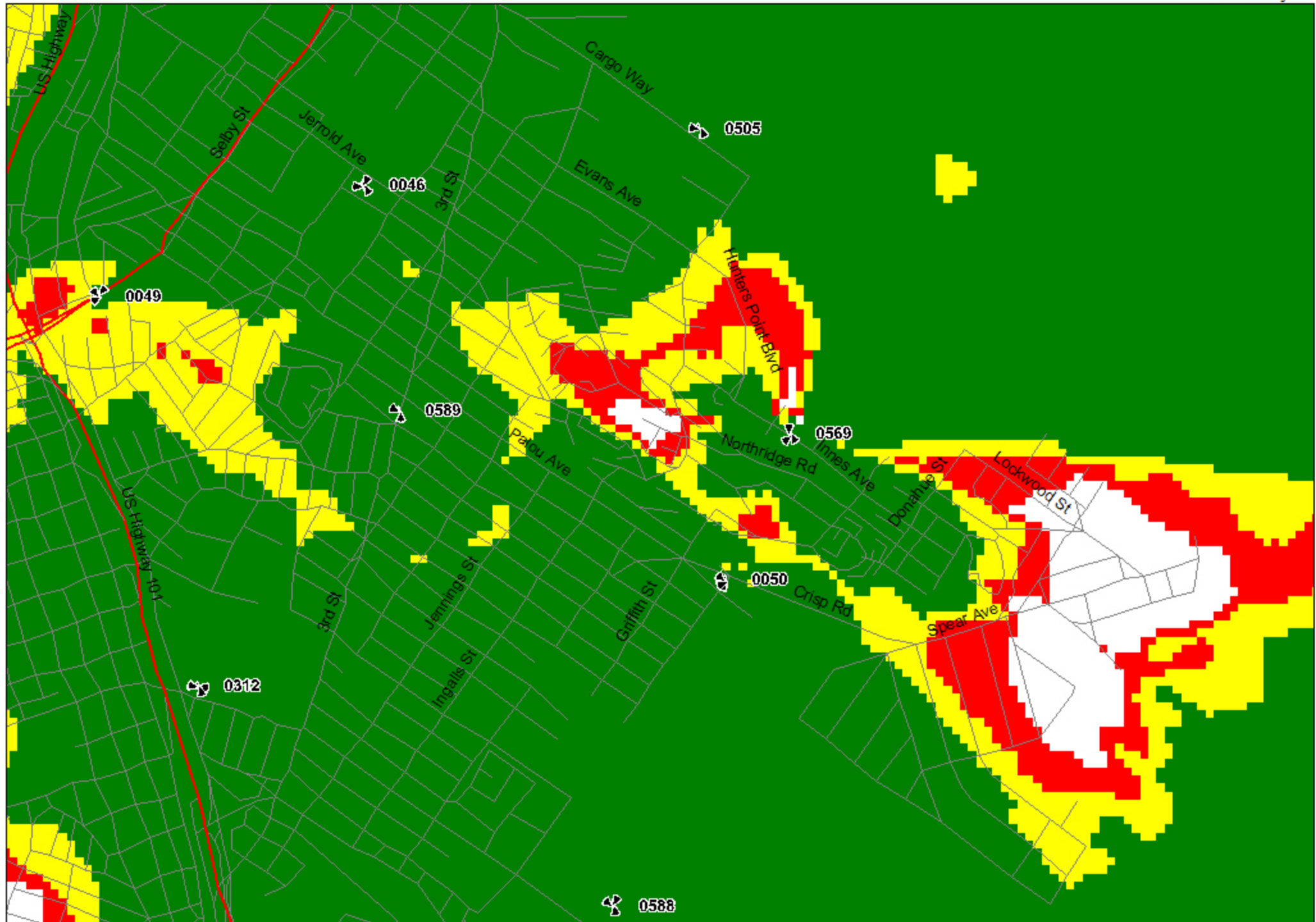
Current Coverage Around Innes Ave Area Before Modification of Site SF 0596

METRO PCS INC
RF Engineering
May 23, 2011



Coverage in Hunter's Point Area with Site SF0569 On-Air

Coverage Legend
■ In-Building
■ In-Vehicle
■ Outdoor
□ No Coverage



**MetroPCS • Base Station No. SF05690A
888 Innes 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 MetroPCS, a personal wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. SF05690A) located at 888 Innes Avenue in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

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 set by the FCC for exposures of unlimited duration are:

Personal Wireless Service	Approx. Frequency	Occupational Limit	Public Limit
Broadband Radio (“BRS”)	2,600 MHz	5.00 mW/cm ²	1.00 mW/cm ²
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

The site was visited by Mr. David Kelly, a qualified field technician contracted by Hammett & Edison, Inc., during normal business hours on December 18, 2009, a non-holiday weekday, and reference has been made to zoning drawings by MSA Architecture & Planning, Inc., dated November 25, 2009.

Checklist

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

MetroPCS had installed two directional panel antennas within a cylinder enclosure above the roof of the one-story commercial building located at 888 Innes Avenue. There were observed no other base stations at this site. Existing RF levels at ground near the site measured less than 1% of the most restrictive public limit.

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

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

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

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



**MetroPCS • Base Station No. SF05690A
888 Innes Avenue • San Francisco, California**

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

MetroPCS proposes to remove the existing antennas and replace them with three Kathrein Model 800-10251 directional panel antennas within a new cylinder, configured to resemble a vent. The antennas would be mounted with no downtilt at an effective height of about 23½ feet above ground, 3½ feet above the roof, and would be oriented toward 130°T, 220°T, and 310°T.

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

The maximum power rating of the new MetroPCS transmitters is 20 watts per channel. The transmitters may operate at a power below their maximum rating, such that the 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.

For the limited purposes of this study, the maximum effective radiated power by MetroPCS in any direction is assumed to be 1,890 watts, representing the simultaneous operation of six channels at 315 watts each.

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 installed as described in Item 4 above.

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

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed MetroPCS operation by itself is calculated to be 0.047 mW/cm², which is 4.7% of the applicable public exposure limit. The ambient RF level for the site is therefore expected to be less than 6% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend up to 18 feet out from the antenna faces and so does not reach any publicly accessible areas.

9. Describe proposed signage at site.

Due to their mounting location, the MetroPCS antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, no access within 4 feet directly in front of the antennas themselves, such as might occur during maintenance activities on the roof, should be allowed while the antennas are in operation, unless other measures can be demonstrated to



**MetroPCS • Base Station No. SF05690A
888 Innes Avenue • San Francisco, California**

ensure that occupational protection requirements are met. Posting explanatory warning signs* at the roof access hatch and on the cylinder in front of the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines.

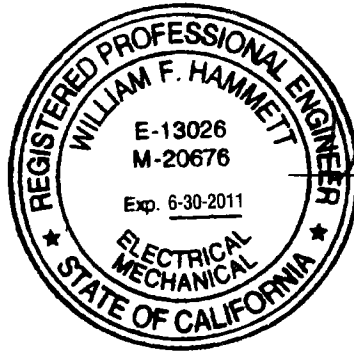
10. Statement of authorship.

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 proposed MetroPCS base station operation at 888 Innes Avenue in San Francisco can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment.

December 28, 2009



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

* Warning signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (e.g., a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter, and guidance from the landlord, local zoning or health authority, or appropriate professionals may be required.



10.00380



Review of Cellular Antenna Site Proposals

Project Sponsor : MetroPCS **Planner:** Jonas Ionin
RF Engineer Consultant: Hammett and Edison **Phone Number:** (707) 996-5200
Project Address/Location: 888 Innes Av
Site ID: 511 **SiteNo.:** SF05690A

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)
 Existing Antennas No Existing Antennas: 2
- 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)
 Yes No
- 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)
 Yes No
- 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)
 Maximum Power Rating: 20 watts.
- 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).
 Maximum Effective Radiant: 1890 watts.
- 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 10.41d)
- 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 μw/cm²)
 Maximum RF Exposure: 0.047 mW/cm² Maximum RF Exposure Percent: 4.7
- 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.
 Public_Exclusion_Area Public Exclusion In Feet: 18
 Occupational_Exclusion_Area Occupational Exclusion In Feet: 4

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

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 2 existing antennas operated by MetroPCS installed on the roof top of the building at 888 Innes Avenue. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. MetroPCS proposes to remove its 2 existing antennas and to install 3 new antennas. The antennas are mounted at a height of 25 feet above the ground. The estimated ambient RF field from the proposed MetroPCS transmitters at ground level is calculated to be 0.047 mW/sq cm., which is 4.7 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 18 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Worker should not have access to within 4 feet of the 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

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

Signed:



Dated: 4/13/2011

Patrick Fosdahl

Environmental Health Management Section
San Francisco Dept. of Public Health
1390 Market St., Suite 210,
San Francisco, CA. 94102
(415) 252-3904

NOTICE OF NEIGHBORHOOD MEETING

To: Neighbors and owners within 500' radius of 888 Innes Avenue

Meeting Information

Date: Thursday, May 19, 2011
Time: 7:00 p.m.
Location: Willie Mays Boys and Girls Club*
195 Kiska Road
San Francisco, CA 94124

MetroPCS Site Information

Address: Zebra Awning
888 Innes Avenue
San Francisco, CA 94124
Zoning: NC-2 (Neighborhood Commercial,
Small Scale)

Applicant

Modus, Inc. on behalf of MetroPCS
115 Sansome Street, 14th Floor
San Francisco CA, 94104

Contact Information

Sylvia Do
Modus, Inc.
115 Sansome Street, 14th Floor
San Francisco CA, 94104
(408) 644-1823
sdo@modus-corp.com

MetroPCS is proposing to install a wireless telecommunications facility at 888 Innes Avenue as part of its San Francisco wireless network. The proposed facility includes the replacement of two existing micro antennas with three new panel antennas within a new simulated roof vent. Two new equipment cabinets will be installed inside of the existing building.

You are invited to attend an informational neighborhood meeting at the Willie Mays Boys and Girls Club* on Thursday, May 19, 2011 at 7:00 p.m. to learn more about the project. Architectural plans and photographic simulations will be available for your review at the meeting. This project will be scheduled for Planning Commission review after our neighborhood meeting.

If you have any questions regarding the proposal or are unable to attend the meeting, please contact Sylvia Do at (408) 644-1823 or sdo@modus-corp.com. If you have any questions regarding the planning process, please contact Erika Jackson at (415) 558-6363 with the San Francisco Planning Department.

NOTE: If you require an interpreter to be present at the meeting, please contact our office at (408) 644-1823 at your earliest convenience and we will make every effort to provide you with an interpreter.

* The Boys and Girls Club is not affiliated with MetroPCS or the proposed project.

AVISO DE REUNIÓN EN EL VECINDARIO

A: Vecinos y propietarios dentro de un radio de 500 pies de 888 Innes Avenue

Información acerca de la reunión

Fecha: Jueves, 19 de mayo de 2011
Hora: 7:00 de la tarde
Lugar: Willie Mays Boys and Girls Club*
195 Kiska Road
San Francisco, CA 94124

Información sobre el sitio MetroPCS

Dirección: Zebra Awning
888 Innes Avenue
San Francisco, CA 94124
Zonificación: NC-2 (Comercial vecinal, a escala
pequeña)

Solicitante

Modus, Inc. de parte de MetroPCS
115 Sansome Street, 14th Floor
San Francisco CA, 94104

Información de contacto

Sylvia Do
Modus, Inc.
115 Sansome Street, 14th Floor
San Francisco CA, 94104
(408) 644-1823
sdo@modus-corp.com

MetroPCS piensa situar una instalación de telecomunicaciones inalámbricas en 888 Innes Avenue como parte de su red inalámbrica de San Francisco. La propuesta instalación incluye sustituir dos antenas microondas existentes por tres nuevas antenas panel dentro de una nueva rejilla falsa en el techo. Dos nuevos gabinetes de equipo serán instalados dentro del edificio existente.

Se le invita a asistir una reunión informativa de vecindario en Willie Mays Boys and Girls Club el jueves, 19 de mayo de 2011 a las 7:00 de la tarde para mayor información acerca del proyecto. En la reunión habrá planos arquitectónicos y maquetas fotográficas disponibles para que usted los inspeccione. Después de nuestra reunión de vecindario, se programará un análisis de este proyecto por parte del Comité de Planeación.

Si tiene alguna pregunta sobre la propuesta o no puede asistir a la reunión, sírvase comunicarse con Sylvia Do al teléfono (408) 644-1823 o escríbale: sdo@modus-corp.com. Si tiene alguna pregunta tocante al proceso de planificación, sírvase comunicarse con Erika Jackson del Departamento de Planificación de San Francisco al teléfono (415) 558-6363.

NOTA: Si requiere la presencia de un intérprete en la reunión, por favor comuníquese cuanto antes con nuestra oficina al teléfono (408) 644-1823 y haremos todo lo posible para proporcionarle un intérprete.

* El Boys and Girls Club no tiene afiliación ni con MetroPCS ni el proyecto propuesto.

社區會議通知

致：Innes 街 888 號五百英尺內的居民和業主

會議詳情

日期：2011 年 5 月 19 日（星期四）
時間：晚上 7:00
地點：Willie Mays 男女童會
（Willie Mays Boys and Girls Club*）
195 Kiska Road
San Francisco, CA 94124

MetroPCS 設施地點資料

地址：Zebra Awning
888 Innes Avenue
San Francisco, CA 94124
劃區：NC-2（社區商用，小型）

申請公司

Modus, Inc. 代表 MetroPCS
115 Sansome Street, 14th Floor
San Francisco CA, 94104

聯絡人

Sylvia Do
Modus, Inc.
115 Sansome Street, 14th Floor
San Francisco CA, 94104
(408) 644-1823
sdo@modus-corp.com

MetroPCS 建議在 Innes 街 888 號設立無線電通訊設施，是該公司三藩市無線電通訊網絡的一部份。建議中的設施包括在新的仿造屋頂排氣管內安裝三條新的平板天線，以取代現有兩條微型天線；兩個新的設備櫃將安裝於現有大樓內。

我們誠意邀請您出席將於 2011 年 5 月 19 日星期四晚上 7:00 在 Willie Mays 男女童會（Willie Mays Boys and Girls Club*）舉行的社區諮詢會議，進一步了解本計劃。會上將有建築設計圖及模擬圖片供與會者參考。本計劃將於社區諮詢會議後排期在規劃委員會（Planning Commission）上審核。

若對上述建議有任何疑問，但無法出席社區會議，請致電 (408) 644-1823 或電郵 sdo@modus-corp.com 與 Sylvia Do 聯絡；若對規劃程序有任何疑問，請致電 (415) 558 6363 與三藩市規劃部（City of San Francisco Planning Department）Erika Jackson 聯絡。

註：如需翻譯人員在會上提供協助，請即致電或 (408) 644-1823 與本辦事處聯絡，我們會盡力為您安排翻譯服務。

* 男女童會與 MetroPCS 或建議中的計劃並無關連。

NEIGHBORHOOD OUTREACH MEETING MINUTES

Project: MetroPCS Modification to Existing WTS Facility at 888 Innes Avenue

Meeting Date: Thursday, May 19, 2011 at 7:00 p.m.

Meeting Location: Willie Mays Boys & Girls Club at 195 Kiska Road

ATTENDEES

Public Attendees – Three neighborhood residents (refer to attached sign-in sheet)

- Michelle Carrington, Jill Fox, and Susan Green

Applicant Attendees

- Applicant: Joe Saluta with MetroPCS
- Applicant Representative/Land Use Consultant: Sylvia Do and Vanessa DeNike with Modus, Inc.
- EMF Consultant: William Hammett with Hammett & Edison

MEETING MINUTES

Sylvia Do welcomed the meeting attendees and provided a presentation describing the project location, scope of work, existing and proposed coverage, design, and next steps in the permitting process and facility installation.

The following questions and comments were provided by the neighborhood residents:

- Has MetroPCS and experiences very poor service in the area, particularly indoors. Wants to know what she can do to have this facility installed.
- Has AT&T and T-Mobile and also experiences poor service.
- Will MetroPCS interfere with the functions of other carriers? *No, each carrier uses different radiofrequency wavelengths and, therefore, do not create interference between carriers.*
- Would the facility provide better coverage if located on a tower or hill? *MetroPCS considered locating on nearby hills, but the hills are too high and could interfere with other MetroPCS sites. There are not any tall buildings located in this neighborhood. The proposed roof-mounted facility was designed at the lowest height possible so as to be visually unobtrusive.*
- Can wireless telecommunication facilities be located on residential properties? *The city and county regulates which zoning districts are preferred for WTS facilities.*
- Are there any health risks? *No, the proposal complies with FCC standards. San Francisco's Department of Public Health has reviewed and approved the EMF report.*
- Will the city and county require any mitigation in the community, such as planting street trees? *San Francisco typically does not require off-site mitigation for projects WTS facility modifications such as this. Provided contact information for San Francisco Planning's project manager.*

Meeting attendees were provided with contact information of the applicant and San Francisco Planning project manager should any additional questions arise. The Planning Commission hearing is anticipated on July 28; a hearing notice will be mailed to neighborhood residents prior to the public hearing.

The neighborhood meeting adjourned at 7:45 p.m.

SITE NAME:
ZEBRA AWNING

SITE NUMBER:
SF05690A

888 INNES AVENUE
SAN FRANCISCO, CA 94124
CITY & COUNTY OF SAN FRANCISCO

THESE PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ISSUANCE OF A BUILDING PERMIT AND ALL SHEETS HAVE BEEN ISSUED "FOR CONSTRUCTION".

ABV	ABOVE	M.B.	MACHINE BOLT
ADJ	ADJUSTABLE	MECH	MECHANICAL
ALT	ALTERNATE	MED	MEDIUM
APPROX	APPROXIMATE	MFR	MANUFACTURER
APP	APPROXIMATE	MIN	MINIMUM
AUTO	AUTOMATIC	MIR	MIRROR
AWG	AMERICAN WIRE GAUGE	MISC	MISCELLANEOUS
		MM	MILLIMETER(S)
BBU	BASE BAND UNIT	MTL	MATERIAL
BEL	BELOW	NOM	NOMINAL
BLK	BLOCK	NTS	NOT TO SCALE
BOT	BOTTOM	OD	OUTSIDE DIAMETER
BTCW	BARE TINNED COPPER WIRE	PAR	PARALLEL
CHAM	CHAMFER	PBC	POWER BACKUP CABINET
CIR	CIRCLE	PERI	PARALLEL
CIRC	CIRCUMFERENCE	PPC	POWER PROTECTION CABINET
CLR	CLEAR	PT	PRESSURE TREATED
CMU	CONCRETE MASONRY UNIT	PVC	POLY VINYL CHLORIDE
COL	COLUMN	RAD	RADIUS
COMB	COMBINATION	REF	REFERENCE
CONT	CONTINUOUS	RET	RETURN
CTR	COUNTER	REV	REVISION
DBS	DISTRIBUTED BASE STATION	RFU	RADIO FREQUENCY UNIT
DEP	DEPRESSED	SCH	SCHEDULE
DET	DETAIL	SECT	SECTION
DIAG	DIAGONAL	SF	SQUARE FOOT
DIA	DIAMETER	SHT	SHEET
DIM	DIMENSION	SIM	SIMILAR
DIV	DIVISION	SPEC	SPECIFICATION(S)
DN	DOWN	SPL	SPECIAL
DWG	DRAWING	SQ	SQUARE
EA	EACH	STD	STANDARD
EQ	EQUAL	SYM	SYMMETRICAL
EQPT	EQUIPMENT	SYS	SYSTEM
EXG	EXISTING	TEMP	TEMPORARY
FUT	FUTURE	THK	THICK(NESS)
GALV	GALVANIZED	TOL	TOLERANCE
GND	GROUND	TYP	TYPICAL
HD	HEAVY DUTY	UBC	UNIFORM BUILDING CODE
HDWR	HARDWARE	VERT	VERTICAL
HORZ	HORIZONTAL	W/	WITH
HR	HOUR	W/O	WITHOUT
HT	HEIGHT		
ID	INSIDE DIAMETER		
L	LENGTH		
LBL	LABEL		
MAX	MAXIMUM		

ABBREVIATIONS

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

2007	BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2007	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2006 INTERNATIONAL BUILDING CODE VOLUMES 1-3 AND 2007 CALIFORNIA AMENDMENTS)
2007	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2006 INTERNATIONAL MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2006 INTERNATIONAL PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS)
2007	CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS
2004	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
2007	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

CODE COMPLIANCE

ARCHITECT:

CONSULTANT'S NAME: MSA ARCHITECTURE AND PLANNING, INC.
ADDRESS: 4425 17TH STREET
CITY, STATE, ZIP: SAN FRANCISCO, CA 94114
CONTACT: ROBERT ZEHR
PHONE: (415) 503-1363

UTILITIES-ELECTRICAL:

CONSULTANT'S NAME: PACIFIC GAS AND ELECTRIC
PHONE: (800) 743-5000

UTILITIES-TELEPHONE:

CONSULTANT'S NAME: SBC
PHONE: (800) 750-2355

PROJECT TEAM

THIS PROJECT INVOLVES THE INSTALLATION OF:

(2) NEW EQUIPMENT CABINETS (1 RADIO & 1 BBU) ON CONCRETE SLAB AT GRADE.

REMOVAL OF (2) EXISTING MICRO ANTENNAS WITHIN SIMULATED ROOF VENT AND REPLACE WITH NEW (3) 40.6" HEIGHT PANEL ANTENNAS IN NEW SIMULATED ROOF VENT.

(E) SIMULATED ROOF VENT/ANTENNA SCREEN TO BE REMOVED AND REPLACED TO NEW LOCATION

EXTENSION OF EXISTING LOFT LANDING AND RELOCATION OF EXISTING STAIRS.

PROJECT DESCRIPTION

APPLICANT/LESSEE

NAME: METRO PCS INC.
ADDRESS: 1080 MARINA VILLAGE PKWY, 4TH FLOOR
ALAMEDA, CA 94501

AGENT

NAME: RYAN CROWLEY
ADDRESS: 3145 GEARY BLVD. #509
SAN FRANCISCO, CA 94118

PHONE: (415) 341-5301

PROPERTY INFORMATION

OWNER: MICHAEL SPEAR
ADDRESS: 888 INNES AVE., SAN FRANCISCO, CA 94124
CONTACT: MICHAEL SPEAR
PHONE: (415) 821-4000

AREA OF CONSTRUCTION: 24 SQ FT

OCCUPANCY TYPE: S-1

CONSTRUCTION TYPE: IIB

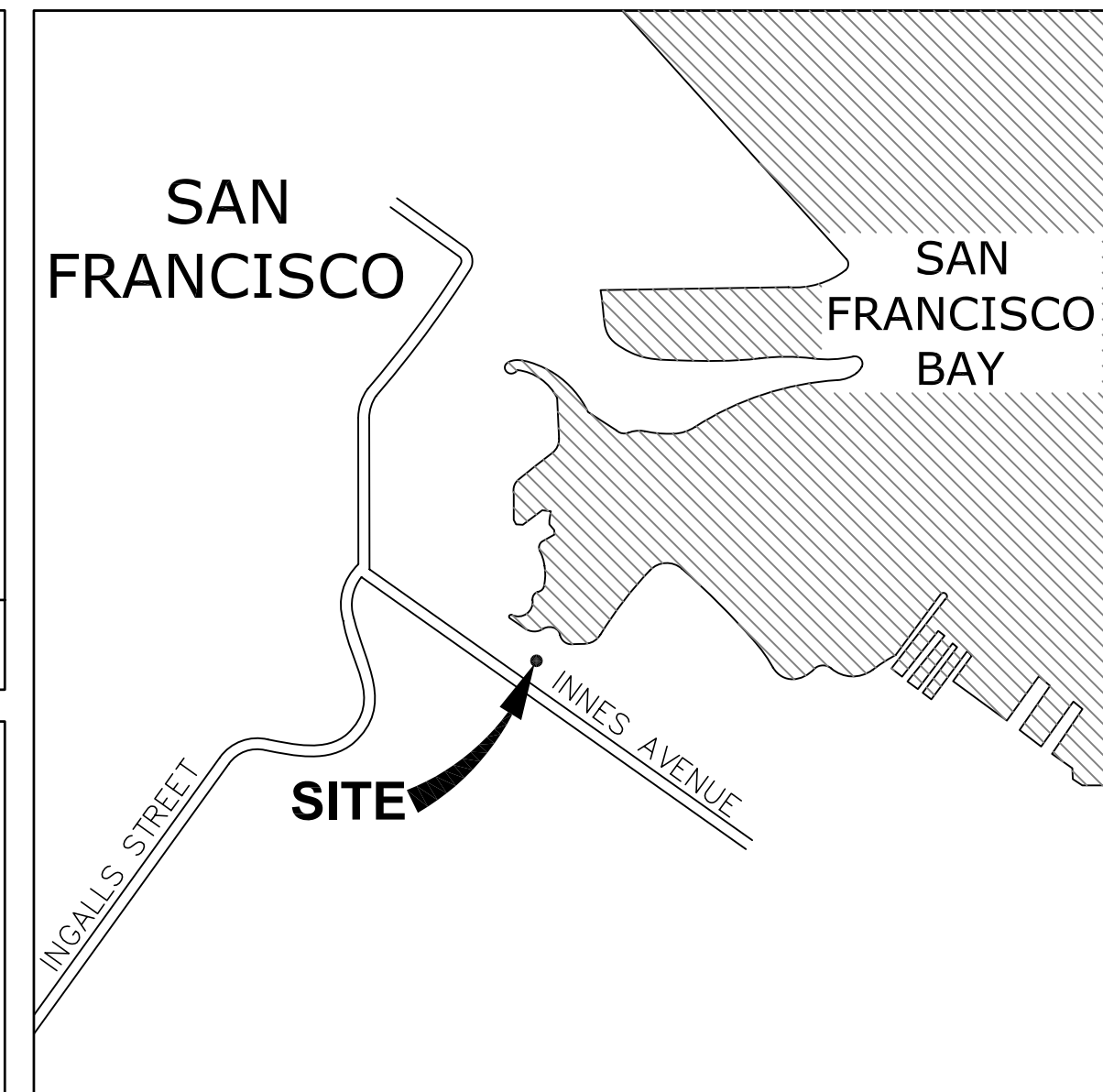
CURRENT ZONING: NC-2

ZONING APPLICATION #: T.B.D.

A.P.N.: 4645-014

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.

PROJECT SUMMARY



VICINITY MAP

DIRECTIONS FROM METRO PCS ALAMEDA OFFICE:

1. START AT MARINA VILLAGE PKWY, ALAMEDA ON MARINA VILLAGE PKWY GOING TOWARDS INDEPENDENCE DR - GO 0.3 MI
2. TURN RIGHT ON MARINER SQUARE DR - GO 0.2 MI
3. CONTINUE ON WEBSTER ST - GO 0.2 MI
4. WEBSTER ST BECOMES POSEY TUBE - GO 0.7 MI
5. POSEY TUBE BECOMES HARRISON ST - GO 0.1 MI
6. TURN RIGHT ON 7TH ST - GO 0.1 MI
7. TURN RIGHT ON JACKSON ST - GO < 0.1 MI
8. BEAR RIGHT ONTO I-880 NORTH - GO 2.8 MI
9. TAKE THE I-80 WEST L EXIST TOWARD SAN FRANCISCO/BAY BRIDGE - GO 8.4 MI
10. I-80 WEST BECOMES US-101 SOUTH - GO 1.1 MI
11. TAKE THE C CHAVEZ ST EXIT ONTO CESAR CHAVEZ - GO 0.7 MI
12. TURN RIGHT ON EVANS AVE - GO 1.4 MI
13. EVANS AVE BECOMES HUNTERS POINT BLVD - GO 0.3 MI
14. BEAR L ON INNES AVE - GO 0.1 MI
15. ARRIVE AT 888 INNES AVE. SAN FRANCISCO ON THE LEFT

DRIVING DIRECTIONS

SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	3
A-1	SITE PLAN	3
A-2	ENLARGED SITE PLANS	3
A-3	ELEVATIONS	3
A-4	ANTENNA SPECIFICATIONS	3

TITLE	SIGNATURE	DATE
NETWORK OPERATIONS MGR.		
RF ENGINEER		
REAL ESTATE		
PROPERTY OWNER		
ZONING APPROVAL		
CONSTRUCTION DIRECTOR		
NATIONAL DIRECTOR MGR.		

SHEET INDEX

GEODETTIC COORDINATES

NAD: 83
LAT: 37° 43' 55.22" N
LONG: 122° 22' 31.14" W

NOTE: NORTH SHOWN HAS BEEN ESTABLISHED USING COMPASS AND IS APPROXIMATE. ALL ANTENNA AZIMUTHS ARE TRUE NORTH. MAGNETIC DEVIATION HAS NOT BEEN ACCOUNTED FOR. VERIFY TRUE NORTH PRIOR TO INSTALLATION OF ANTENNAS.

TITLE	SIGNATURE	DATE
NETWORK OPERATIONS MGR.		
RF ENGINEER		
REAL ESTATE		
PROPERTY OWNER		
ZONING APPROVAL		
CONSTRUCTION DIRECTOR		
NATIONAL DIRECTOR MGR.		

APPROVAL LIST

A&E SEAL

PROJECT NO: SF05690

DRAWN BY: RM

CHECKED BY: RZ

CAD FILE: SF05690

SUBMITTALS

REV.	DATE	DESCRIPTION
3	06/15/10	100% ZONING
2	04/30/10	100% ZONING
1	01/18/10	100% ZONING
0	11/25/09	90% ZONING

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SITE
SF05690A
ZEBRA AWNING
888 INNES AVENUE
SAN FRANCISCO, CA 94124
CITY & COUNTY OF
SAN FRANCISCO

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

Jun 16, 2010 - 6:38pm jalejandr\RD\METRO PCS\METRO ACTIVE\SAN FRANCISCO\SF05690A Zebra Awning\1-ZD\M-PCS_SF05690_ZEBRA AWNING_ZD.dwg

metroPCS

1080 MARINA VILLAGE PKWY
4TH FLOOR
ALAMEDA, CA 94501
TEL: (510) 747-4600

MSA

Architecture & Planning, Inc.
4425 17th Street
San Francisco, Ca 94114
415.503.1363 fax 949.251.1120
Santa Ana San Diego San Francisco
www.msa-ap.com

A&E SEAL

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SHEET TITLE
SITE PLAN

SHEET NUMBER
A-1

(GRIFFITH STREET - R.O.W.)

(E) PROPERTY LINE

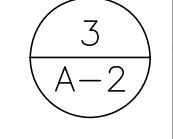
APN: 4645-015

(E) BUILDING ROOF

APN: 4645-014

(E) BUILDING

(E) SIMULATED ROOF VENT TO BE REMOVED AND REPLACED TO NEW LOCATION, SEE ENLARGED LAYOUT



(E) SIMULATED ROOF VENT TO BE REMOVED AND REPLACED TO NEW LOCATION

INNES AVENUE

SECTOR 'B' 230°

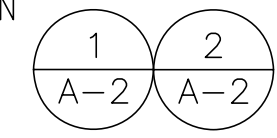
(E) CONCRETE SIDE WALK

(P) METRO PCS PANEL ANTENNAS WITHIN (P) SIMULATED ROOF VENT (CONCEALMENT RADOME TRIPOD MOUNTED ON 6"x8"x12' WD SLEEPERS SPANNING ACROSS MIN. 3 PURLINS)

(E) PARAPET, HEIGHT VARIES

(E) JOINT POLE & (E) METRO PCS POWER & TELCO P.O.C.

(E) & (P) LEASE AREA EXTENSION OF METRO PCS EQUIPMENT LOCATION, SEE ENLARGED SITE PLAN



(E) 6"x22 WFB @ 24' FROM FRONT OF BLDG

(E) (8) 2 7/8" x 8 1/2" RAFTER PURLINS @ 5' OC TYP.

(E) GARAGE AT LOWER LEVEL / (E) METRO PCS EQUIPMENT ACCESS

SECTOR 'C' 310°

(E) SKYLIGHT

SECTOR 'A' 150°

(E) SKYLIGHT

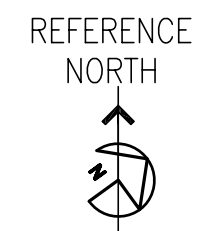
(E) METRO PCS COAX CABLE TRAY ON SLEEPERS ON ROOF

(E) METRO PCS ROOFTOP ENTRY ENCLOSURE WITH GPS ANTENNA

(E) ROOF HATCH

(E) PROPERTY LINE

(E) PROPERTY LINE

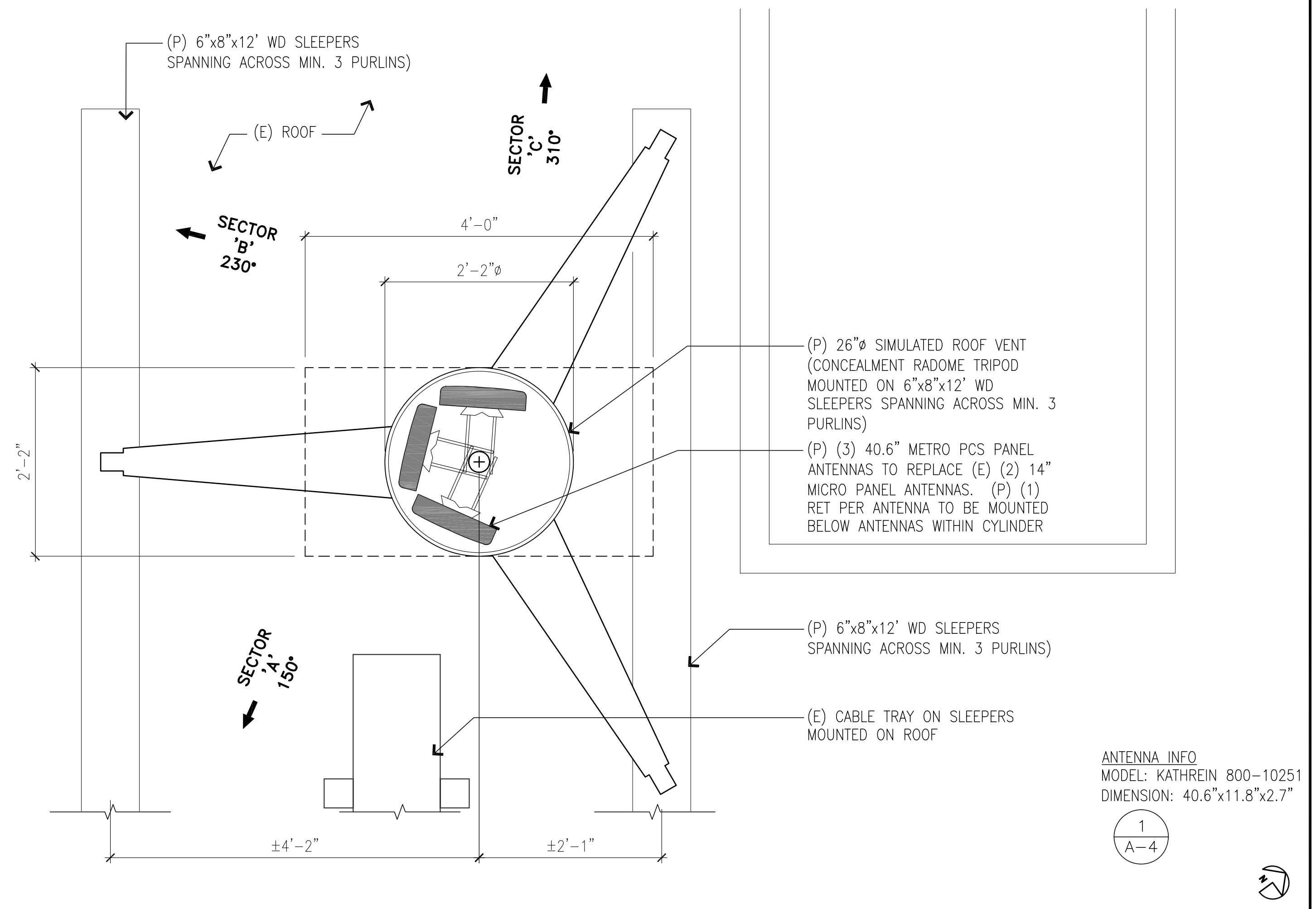


SCALE
3/16"=1'-0"

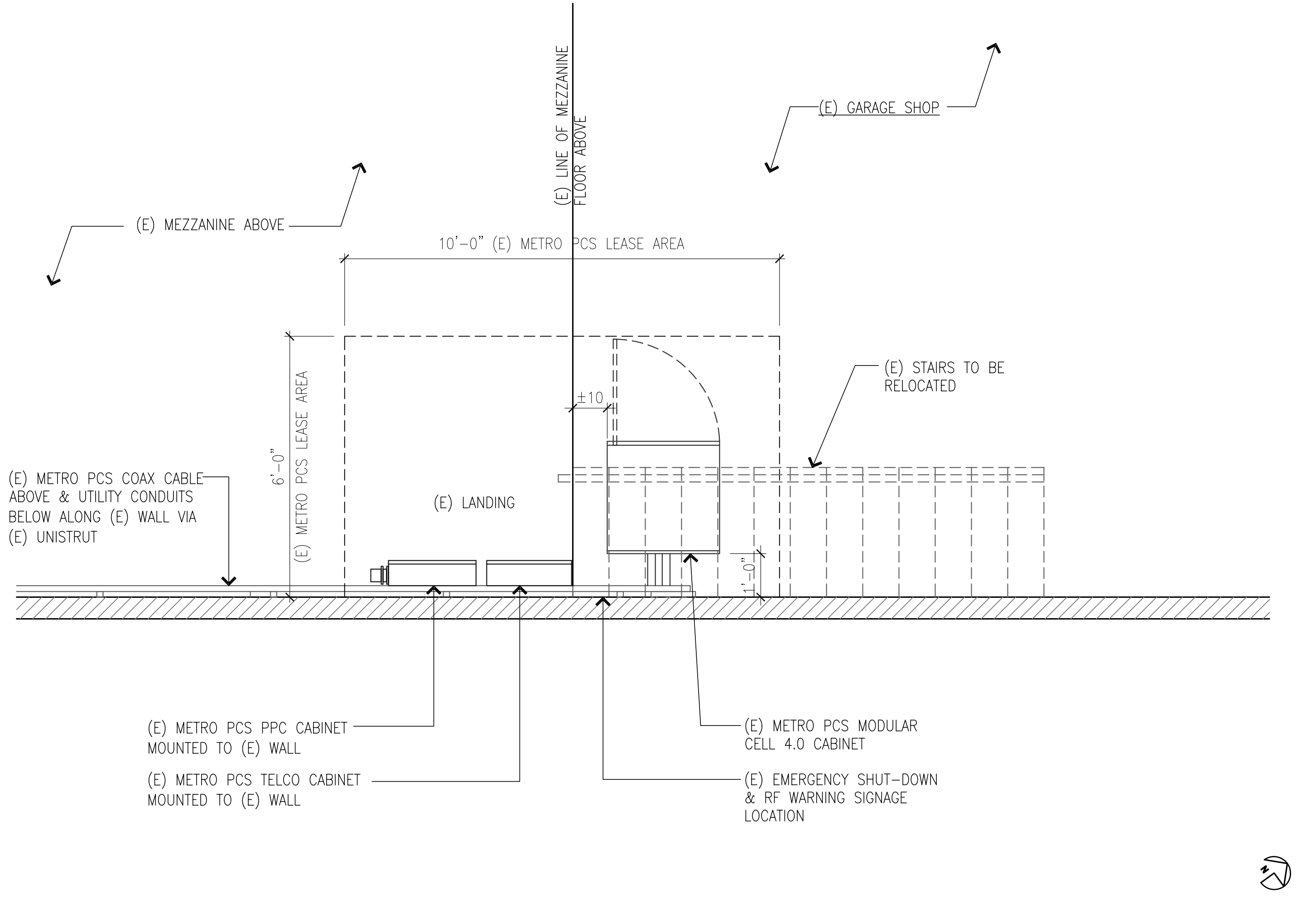
1

SITE PLAN

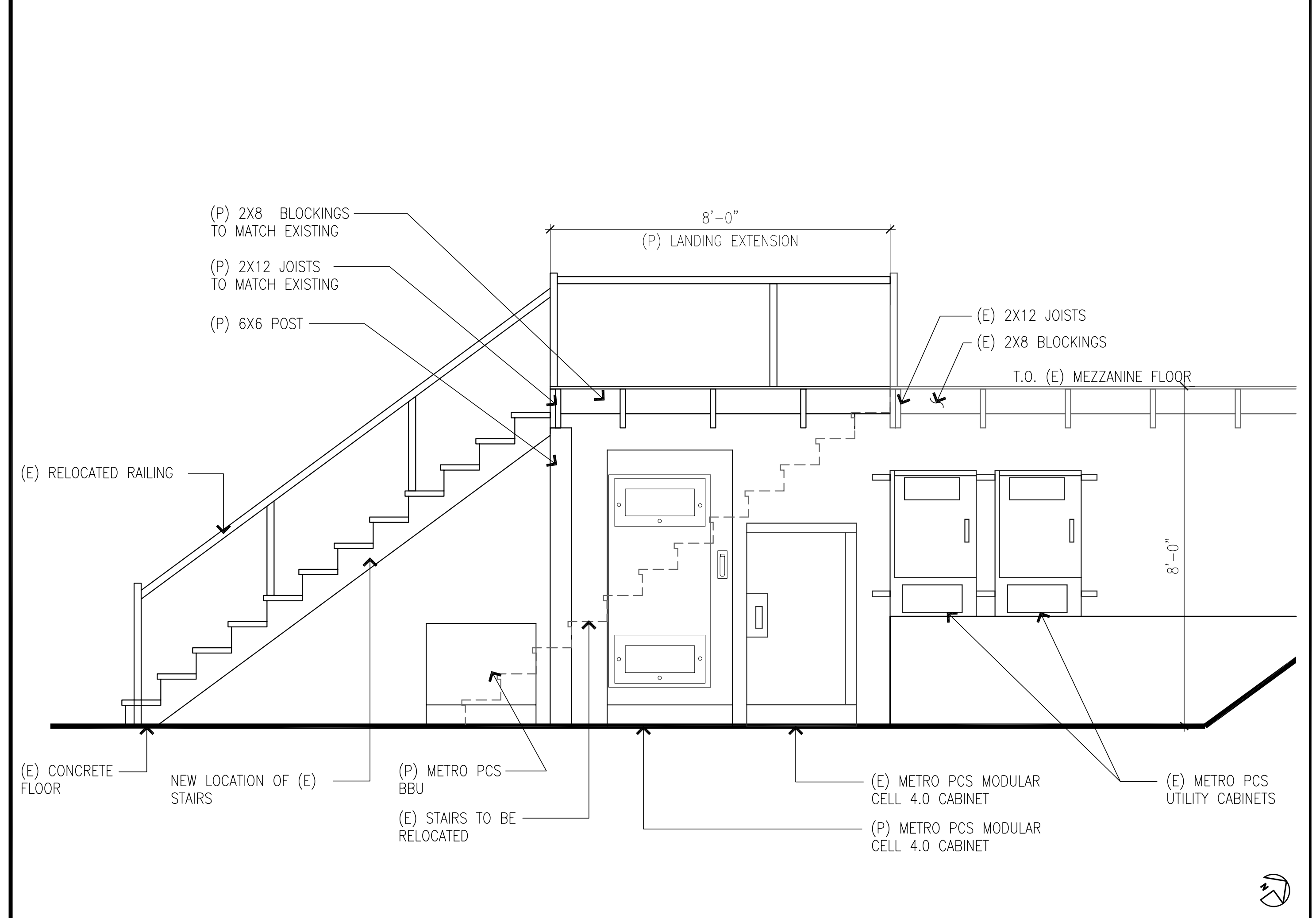
Jun 16, 2010 - 6:38pm jalejandr\RD\METRO PCS\METRO ACTIVE\SAN FRANCISCO\SFO5690A Zebra Awning\1-ZD\M-PCS_SF05690_ZEBRA AWNING_ZD.dwg



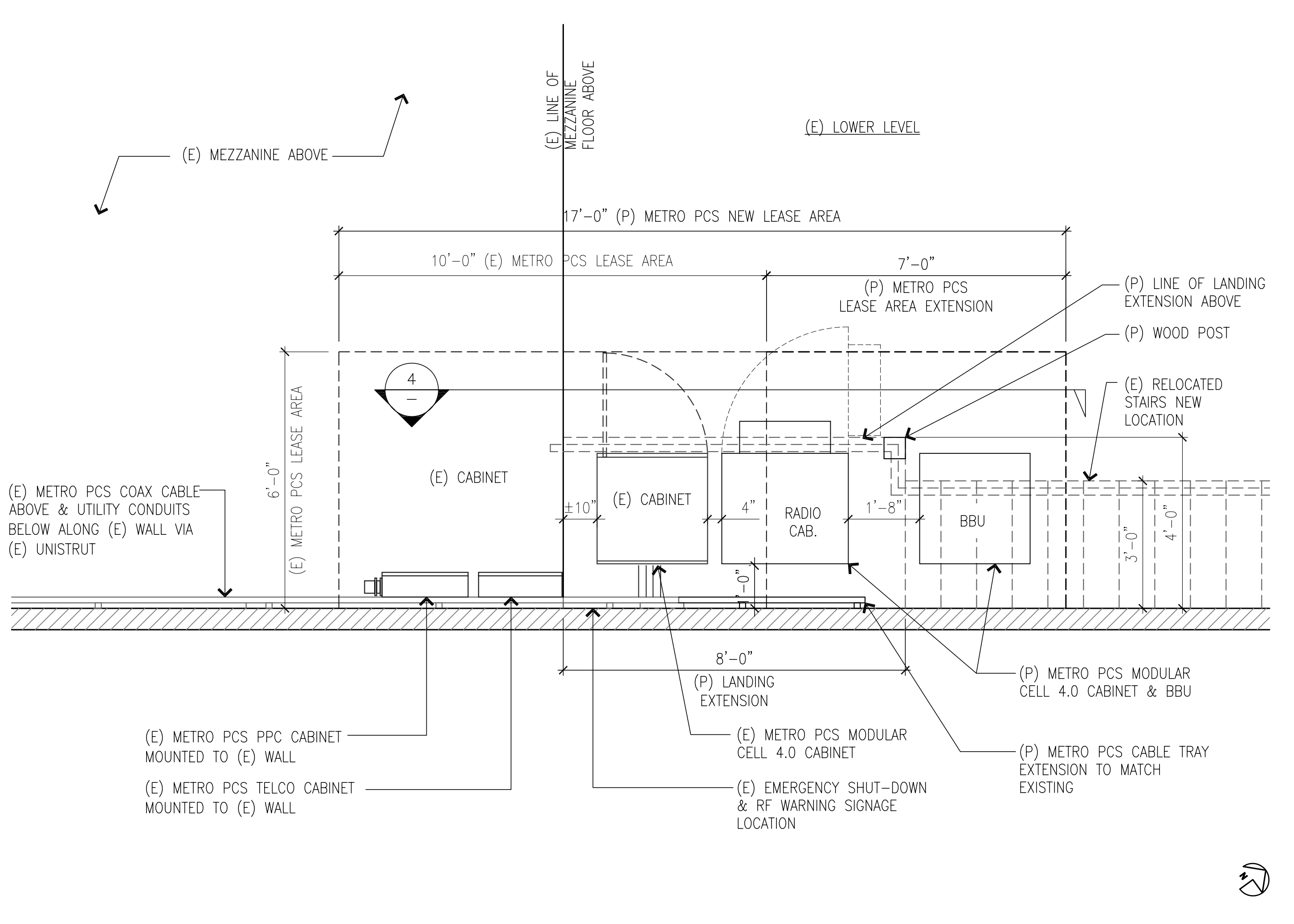
METRO PCS ANTENNA LAYOUT SCALE 1-1/2"=1'-0" 3



(E) METRO PCS EQUIPMENT LEASE AREA SCALE 1/2"=1'-0" 1



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



(P) METRO PCS EQUIPMENT LEASE AREA EXTENSION SCALE 1/2"=1'-0" 2

metroPCS
1080 MARINA VILLAGE PKWY
4TH FLOOR
ALAMEDA, CA 94501
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Santa Ana San Diego San Francisco
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A&E SEAL

PROJECT NO: SF05690
DRAWN BY: RM
CHECKED BY: RZ
CAD FILE: SF05690

SUBMITTALS

3	06/15/10	100% ZONING
2	04/30/10	100% ZONING
1	01/18/10	100% ZONING
0	11/25/09	90% ZONING

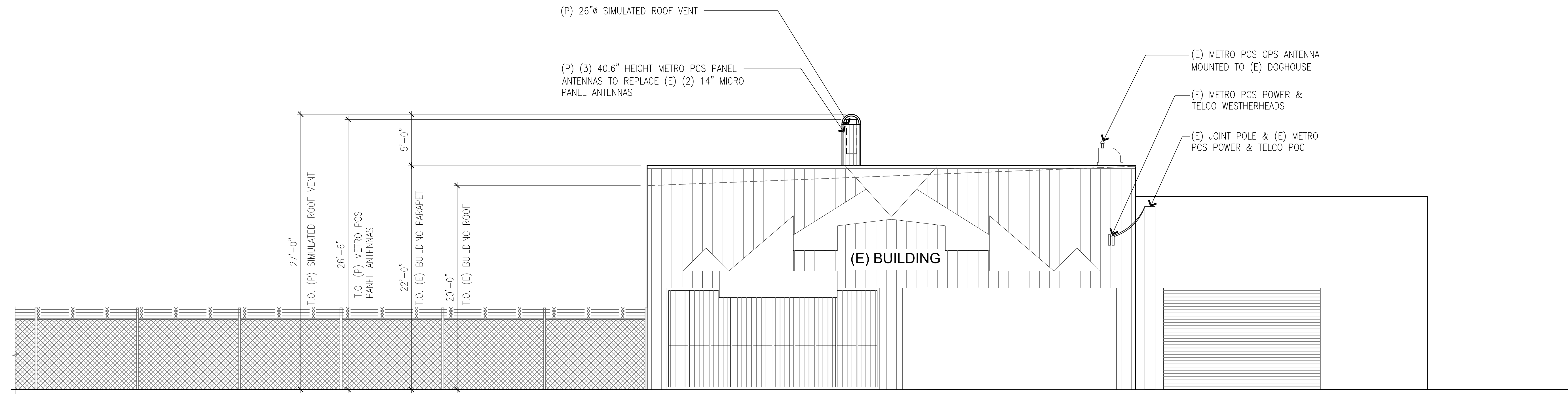
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CITY & COUNTY OF
SAN FRANCISCO

SHEET TITLE
ENLARGED SITE PLANS

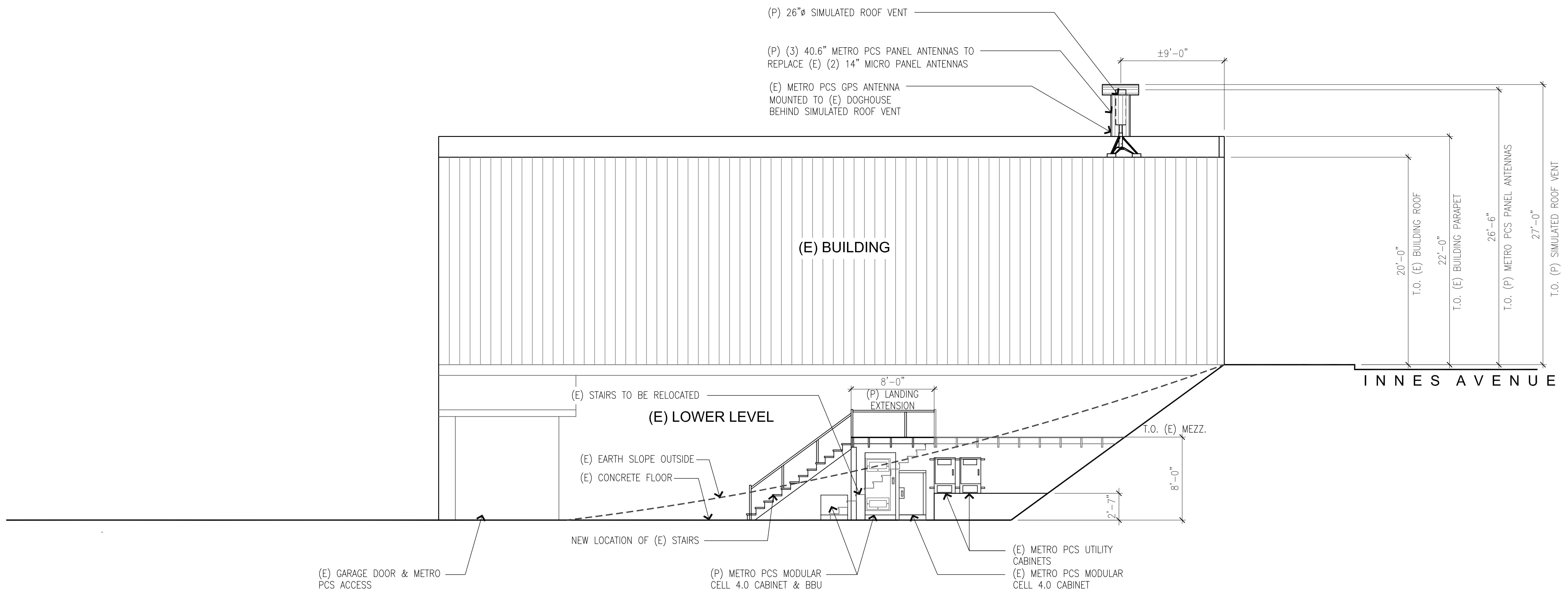
SHEET NUMBER
A-2

Jun 16, 2010 - 6:38pm jalejandr\RD\METRO PCS\METRO ACTIVE\SAN FRANCISCO\SF05690A Zebra Awning\1-ZD\M-PCS_SF05690_ZEBRA AWNING_ZD.dwg



WEST ELEVATION

SCALE
3/16"=1'-0" 1



NORTH ELEVATION

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

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SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-3

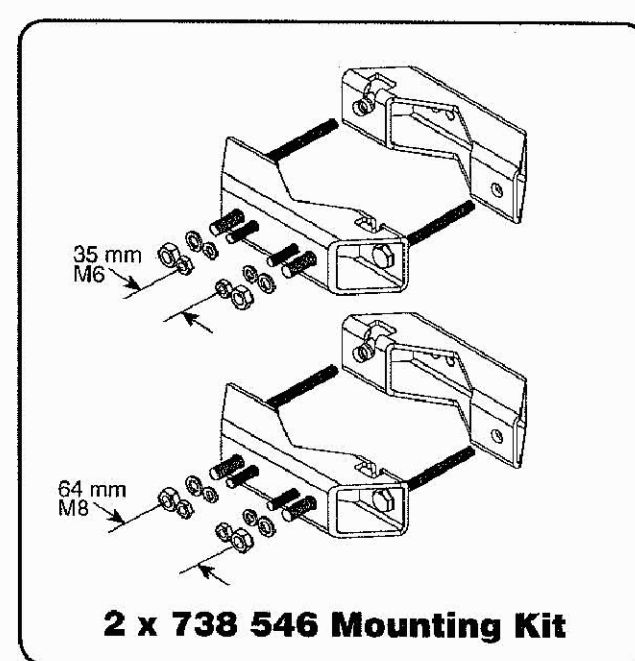
Jun 16, 2010 6:39pm jalejandr\RA\METRO PCS\METRO ACTIVE\SAN FRANCISCO\SFO5690A_Zebra Awning\1-ZD\M-PCS_SF05690A_ZEBRA AWNING_ZD.dwg

Battery Information				
Battery Electrolyte Data - 12V Monoblocs				
Battery Model	Total # of Battery Units Installed	Total Electrolyte Volume GAL/Unit	Total Electrolyte Volume/Units = (GAL)	Total Units X Electrolyte Volume/Units
PROVIDED BY MULTIPLE VENDORS	8	1.42 GAL	11.36 GAL = 8 Units x 1.42 GAL/Unit	

NOTE: BATTERIES ARE PROVIDED BY MULTIPLE VENDORS. TABLE SHOWS THE MAXIMUM VALUES FOR ELECTROLYTE.

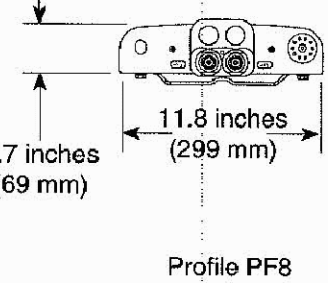
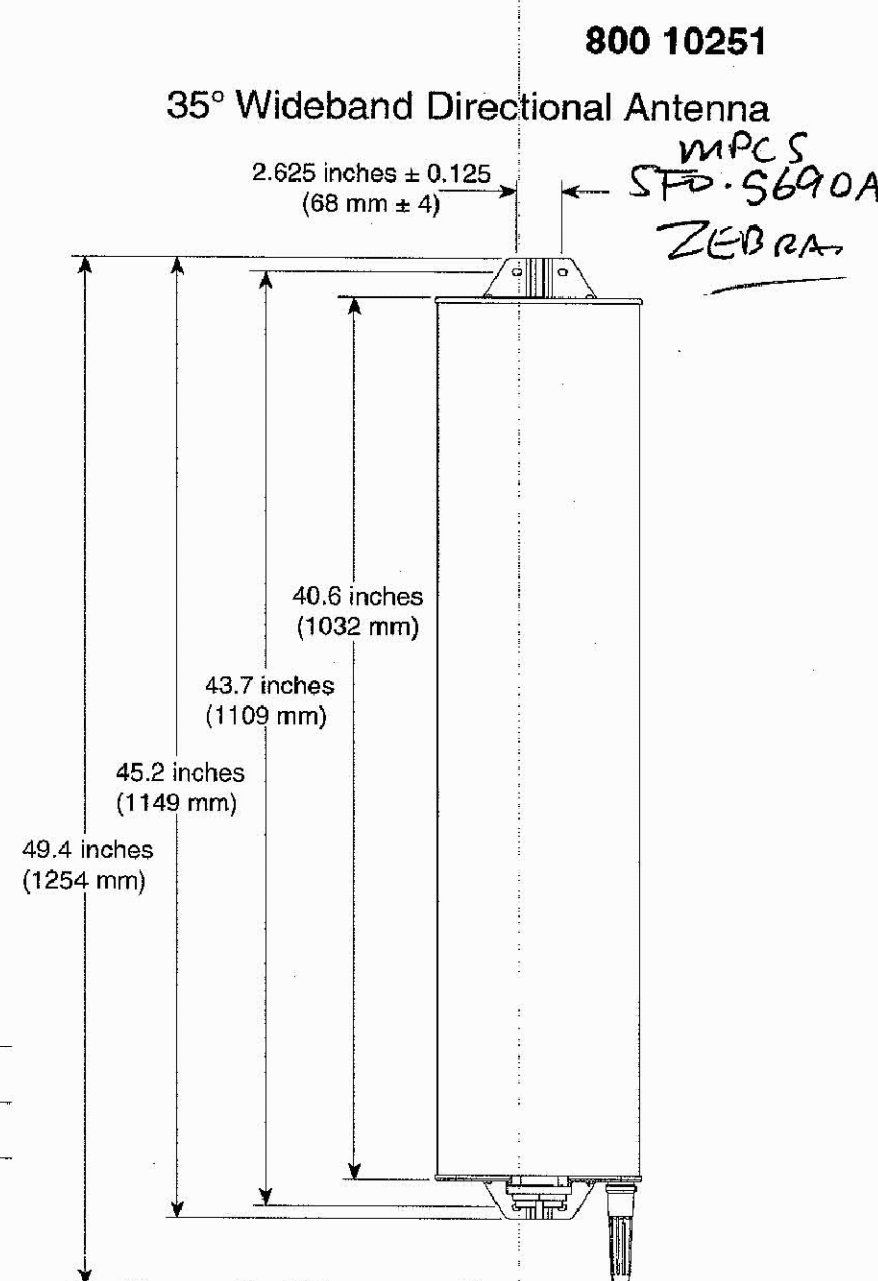
NOTE:
UPON FURTHER REVIEW OF THE CFC 2007 608.1, WHICH STATES "STATIONARY STORAGE BATTERY SYSTEMS HAVING AN ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS (189 L) FOR FLOODED LEAD ACID, NICKEL CADMIUM (NI-CD) AND VALVE-REGULATED LEAD ACID (VRLA), OR 1,000 POUNDS (454 KG) FOR LITHIUM-ION, USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES, SHALL COMPLY WITH THIS SECTION AND TABLE 608.1." IT WAS DETERMINED THAT THE PROPOSED VERIZON EQUIPMENT SITE IS EXEMPT DUE TO THE TOTAL ELECTROLYTE VOLUME WHICH IS SPECIFIED IN THE BATTERY INFORMATION TABLE IS LESS THAN 50 GALLONS.

KATHREIN
SCALA DIVISION



Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
850 10013	Tilt Mount Kit 0-20 Degrees down tilt angle.



Order Information:

Model	Description
800 10251	Antenna with 7-16 DIN connectors 0°-12° adjustable electrical down tilt

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.
Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com

KATHREIN
SCALA DIVISION

Kathrein's X-polarized adjustable electrical down tilt antennas offer the wireless carrier the ability to tailor polarization diversity sites for optimum performance. Using variable down tilt, only a few models need be procured to accommodate the needs of widely varying conditions. Remotely controlled down tilt is available as a retrofitable option.

- 0-12° down tilt range.
- UV resistant pultruded fiberglass radome.
- DC Grounded metallic parts for impulse suppression.
- No moving electrical connections.
- Wideband vector dipole technology.
- Optional remote down tilt control.
- Will accommodate future 3G / UMTS applications.

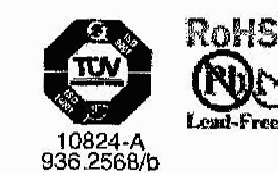
General specifications:

Frequency range	1710-2170 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3 < -150 dBc
Polarization	+45° and -45°
Front-to-back ratio (180° ± 90°)	>30 dB (co-polar)
Connector	2 x 7-16 DIN female
Isolation	>30 dB
Maximum input power	300 watts (at 50°C) per input
Weight	25.4 lb (11.5 kg)
Dimensions	40.8 x 11.8 x 2.7 inches (1032 x 299 x 69 mm)
Equivalent flat plate area	4.42 ft² (0.411 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	62.6 x 13.3 x 4.4 inches (1586 x 337 x 112 mm)
Shipping weight	32 lb (14.5 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.

See reverse for order information.

Specifications:

	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	19.2 dBi	19.5 dBi	19.8 dBi
Horizontal beamwidth	36° (half-power)	35° (half-power)	33° (half-power)
Vertical beamwidth	9.2° (half-power)	9° (half-power)	8.5° (half-power)
Electrical down tilt continuously adjustable	0°-12° (manual or optional remote control)	0°-12°	0°-12°
Sidelobe suppression for first sidelobe above horizon	0° 6' 12" T 15 17 17 dB	0° 6' 12" T 15 17 17 dB	0° 6' 12" T 15 17 17 dB
Horizontal pattern	>18 dB	>17 dB	>16 dB
Cross polar ratio Main direction	0°	25 dB (typical)	25 dB (typical)
Sector	>10 dB	>10 dB	>10 dB

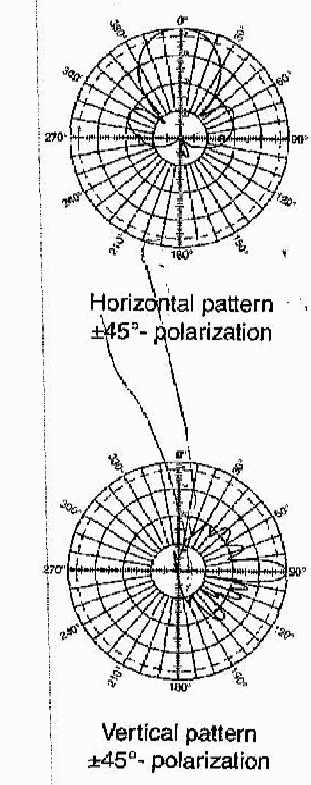
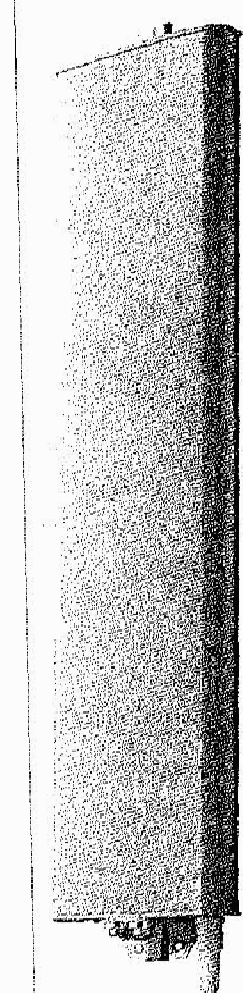


*Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991

MPC S-SFO5690A 800 10251
35° Wideband Directional Antenna

ZEBRA AWNING



metroPCS

1080 MARINA VILLAGE PKWY
4TH FLOOR
ALAMEDA, CA 94501
TEL: (510) 747-4600

MSA

Architecture & Planning, Inc.

4425 17th Street
San Francisco, CA 94114
415.503.1363 fax 949.251.1120
Santa Ana San Diego San Francisco

www.msa-ap.com

A&E SEAL

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DRAWN BY:	RM
CHECKED BY:	RZ
CAD FILE:	SFO5690

SUBMITTALS		
NO.	DATE	DESCRIPTION
3	06/15/10	100% ZONING
2	04/30/10	100% ZONING
1	01/18/10	100% ZONING
0	11/25/09	90% ZONING

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SITE
SFO5690A
ZEBRA AWNING
888 INNES AVENUE
SAN FRANCISCO, CA 94124
CITY & COUNTY OF SAN FRANCISCO

SHEET TITLE
ANTENNA SPECIFICATIONS

SHEET NUMBER
A-4

BATTERY INFORMATION

SCALE
NONE

2

ANTENNA SPECIFICATIONS

SCALE
NONE

1