# **Certificate of Appropriateness Case Report**

**CONSENT CALENDAR** 

Hearing Date: March 3, 2010
Filing Date: February 3, 2010
Case No.: 2010.0070A
Project Address: 150 Broadway

Zoning: C-2 (Community Business)

65-X Height and Bulk District

Block/Lot: 0141/011
Applicant: Joe Camicia

(415) 722-1183

Staff Contact Angela Threadgill - (415) 558-6602

angela.threadgill@sfgov.org

*Reviewed By* Tina Tam – (415) 558-6325

tina.tam@sfgov.org

### PROPERTY DESCRIPTION

**150 Broadway** is located at the northeast corner of Broadway and Battery Street, in Assessor's Block 0141, Lot 011, within the Northeast Waterfront Historic District. The eight-story office building was built in 2008 and is considered non-contributory to the Historic District. The property is within a C-2 (Community Business) Zoning District and a 65-X Height and Bulk District. The site is also within the Waterfront Special Use District No. 3.

### PROJECT DESCRIPTION

The proposed project is for the installation of four (4) wireless telecommunication antennas mounted to the existing rooftop penthouse and for the installation of four (4) wireless telecommunication equipment cabinets located adjacent to the existing rooftop penthouse within a new 10 ft. X 20 ft. enclosure (either chain link with dark slats or a solid wall painted to match the penthouse). The antennas will be partially screened and painted to match the surface to which they are attached.

### OTHER ACTIONS REQUIRED

None.

### COMPLIANCE WITH THE PLANNING CODE PROVISIONS

The proposed project complies with all other provisions of the Planning Code.

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

Reception: 415.558.6378

Fax:

415.558.6409

Planning Information: 415.558.6377

### APPLICABLE PRESERVATION STANDARDS

### **ARTICLE 10**

150 Broadway has been deemed as Non-Contributory to the Northeast Waterfront Historic District under Article 10 of the Planning Code. A Certificate of Appropriateness is required for any work involving a sign, awning, marquee, canopy, mural, or other appendage, for which a City permit is required in a historic district. In appraising a proposal for a Certificate of Appropriateness, the Historic Preservation Commission should (1) consider the factors of height, massing, fenestration, materials, color, texture, detail, style, scale and proportion, signage, landscaping and street furniture; and (2) preserve, enhance or restore, and not damage or destroy, the exterior architectural appearance of the subject site, building, structure and object which is compatible with the character of the Historic District. Section 1006.7(d) of the Planning Code provides, in relevant part, as follows:

For applications pertaining to all property in historic districts, the proposed work shall also conform to such further standards as may be embodied in the ordinance designating the historic district. [The designating ordinance for the Northeast Waterfront Historic District is Appendix D, Article 10.]

### THE SECRETARY OF THE INTERIOR'S STANDARDS

Rehabilitation is the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features that convey its historical, cultural, or architectural values. The Rehabilitation Standards provide, in relevant part(s):

### Standard 9.

New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

### PUBLIC/NEIGHBORHOOD INPUT

The Department has received no public input on the project at the date of this report.

### **ISSUES & OTHER CONSIDERATIONS**

None.

### STAFF ANAYLSIS

Particular to wireless communication facilities, Staff considered the proposed location, method of attachment, screening material, size, and number in relation to the subject building and historic district. Based on the requirements of Article 10 and the *Secretary of Interior's Standards*, staff has

determined that the proposed work will not adversely effect the non-historic subject building, nor the special architectural and historic character of the Northeast Waterfront Historic District.

Two of the four wireless communication antennas would be located on a secondary elevation and the other two antennas would be located on an existing rooftop penthouse; each face-mounted at a height not to exceed the structure to which the antennas are attached; therefore, no antenna would disrupt the existing cornice or parapet lines. The equipment cabinets and screen enclosure would be setback approximately 15 feet and 45 feet from the west and south elevations, respectively, and would not exceed approximately 7 feet above the roof surface, or 2 feet above the height of the parapet. Additionally, the view from Telegraph Hill over the roofs of the Northeast Waterfront District would be largely the same, as the new enclosed screen wall and cabinets are located downslope on the south side of the much taller penthouse, thus hidden within the viewscape. The proposed wireless communication facilities have been strategically positioned to be minimally visible from adjacent public rights-of-way and public open spaces.

### **ENVIRONMENTAL REVIEW STATUS**

The Planning Department determined that the proposed project is exempt/excluded from environmental review, pursuant to CEQA Guideline Section 15301(a) (Class 1 – Minor structures appurtenant to commercial facilities) because the project consists of the leasing, minor alteration, and operation of wireless telecommunication facilities at an existing private structure, involving no expansion of use.

### BASIS FOR RECOMMENDATION

- That the proposed wireless communication facilities have been strategically positioned to be minimally visible from adjacent public rights-of-way and public open spaces.
- That the four (4) proposed wireless communication antennas would be located on a secondary elevation and on an existing rooftop penthouse at a height not to exceed the structure to which the antennas are attached; therefore, no antenna would disrupt the existing cornice or parapet lines.
- That the equipment cabinets and screen enclosure would be sufficiently setback from street-facing elevations and the height would not exceed approximately 7 feet above the roof surface, or 2 feet above the height of the parapet; thereby reducing visibility.
- That the new screen enclosure and cabinets are located downslope on the south side of the much taller penthouse, thus hidden within the viewscape from Telegraph Hill.
- For these reasons, the proposal overall, is appropriate for and consistent with the purposes of Article 10, meets the standards of Article 10, and the *Secretary of Interior's Standards for Rehabilitation*.

RECOMMENDATION: Approve

### **ATTACHMENTS**

Draft Motion and Exhibit A: Certificate of Appropriateness

Project Sponsor Submittal

Application

Photo Simulations of Proposed Project

**Technical Specifications** 

Plans

Zoning Maps

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# Historic Preservation Commission Draft Motion

**HEARING DATE: MARCH 3, 2010** 

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

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ADOPTING FINDINGS FOR A CERTIFICATE OF APPROPRIATENESS FOR PROPOSED WORK DETERMINED TO BE APPROPRIATE FOR AND CONSISTENT WITH THE PURPOSES OF ARTICLE 10, TO MEET THE STANDARDS OF ARTICLE 10 AND TO MEET THE SECRETARY OF INTERIOR'S STANDARDS FOR REHABILITATION, FOR THE PROPERTY LOCATED ON LOT 011 IN ASSESSOR'S BLOCK 0141, WITHIN AN C-2 (COMMUNITY BUSINESS) ZONING DISTRICT, AND A 65-X HEIGHT AND BULK DISTRICT.

### **PREAMBLE**

WHEREAS, On February 3, 2010, Mr. Joe Camicia (hereinafter "Project Sponsor") filed an application with the San Francisco Planning Department (hereinafter "Department") for a Certificate of Appropriateness for the installation of four (4) wireless telecommunication antennas mounted to the existing rooftop penthouse and for the installation of four (4) wireless telecommunication equipment cabinets located adjacent to the existing rooftop penthouse within a new 10 ft. X 20 ft. enclosure (hereinafter "Project") at the subject building located on Lot 011 in Assessor's Block 0141.

WHEREAS, The Project was determined by the Department to be categorically exempt from environmental review. The Historic Preservation Commission (hereinafter "Commission") has reviewed and concurs with said determination.

WHEREAS, On March 3, 2010, the Commission conducted a duly noticed public hearing on the current project, Case No. 2010.0070A ("Project") for its appropriateness.

WHEREAS, In reviewing the Application, the Commission has had available for its review and consideration case reports, plans, and other materials pertaining to the Project contained in the

Motion No. XXXX Hearing Date: March 3, 2010

Department's case files, has reviewed and heard testimony and received materials from interested parties during the public hearing on the Project.

**MOVED**, that the Commission hereby grants the Certificate of Appropriateness, in conformance with the architectural plans dated December 9, 2009 and labeled Exhibit A on file in the docket for Case No. 2010.0070A based on the following findings:

### **FINDINGS**

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

- 1. The above recitals are accurate and also constitute findings of the Commission.
- 2. Findings pursuant to Article 10:
  - That the proposed wireless communication facilities have been strategically positioned to be minimally visible from adjacent public rights-of-way and public open spaces.
  - That the four (4) proposed wireless communication antennas would be located on a secondary elevation and on an existing rooftop penthouse at a height not to exceed the structure to which the antennas are attached; therefore, no antenna would disrupt the existing cornice or parapet lines.
  - That the equipment cabinets and screen enclosure would be sufficiently setback from street-facing elevations and the height would not exceed approximately 7 feet above the roof surface, or 2 feet above the height of the parapet; thereby reducing visibility.
  - That the new screen enclosure and cabinets are located downslope on the south side of the much taller penthouse, thus hidden within the viewscape from Telegraph Hill.
  - The proposed project meets the following Secretary of the Interior's Standards for Rehabilitation:

### Standard 9.

New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

- 3. For these reasons, the proposal overall, is appropriate for and consistent with the purposes of Article 10, meets the standards of Article 10, and the *Secretary of Interior's Standards for Rehabilitation*.
- 4. **General Plan Compliance.** The Project is consistent with the Objectives and Policies of the General Plan in that:

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### **URBAN DESIGN ELEMENT**

### **Objectives and Policies**

### **OBJECTIVE 2:**

CONSERVATION OF RESOURCES WHICH PROVIDE A SENSE OF NATURE, CONTINUITY WITH THE PAST, AND FREEDOM FROM OVERCROWDING.

### Policy 2.4:

Preserve notable landmarks and areas of historic, architectural or aesthetic value, and promote the preservation of other buildings and features that provide continuity with past development.

- 5. **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.

The proposed project would not displace any existing neighborhood-serving businesses.

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

The proposed project is located in a C-2 Zoning District characterized by low- and mid-rise office uses interspersed with residential and ground-floor commercial uses. The proposed project would not effect the current cultural and economic diversity of the Northeast Waterfront.

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

Although the proposed Project is leaoted at a site occupied by affordable housing, the Project would not remove or displace the existing affordable housing.

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

The proposed Project would not generate commuter traffic nor impede MUNI transit service.

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 proposed project would not displace any tenants, and would have no material effect on industrial or service sector space.

SAN FRANCISCO
PLANNING DEPARTMENT

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Motion No. XXXX Hearing Date: March 3, 2010

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

The Project will conform to the structural and seismic requirements of the San Francisco Building Code through its methods of attachment.

G. That landmarks and historic buildings be preserved.

The proposed project would involve a non-contributory building to the Northeast Waterfront Historic District and would have no adverse effect on the building's interior or exterior architectural features. The Project preserves the architectural and historic importance of the District through sensitive placement of the wireless telecommunication facilities.

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

The Project will not impact parks, open space, or their access to sunlight or vistas.

Motion No. XXXX CASE NO 2010.0070A Hearing Date: March 3, 2010 150 Broadway

### **DECISION**

That based upon the Record, the submissions by the Applicant, the staff of the Department and other interested parties, the oral testimony presented to this Commission at the public hearings, and all other written materials submitted by all parties, the Commission hereby **GRANTS Certificate of Appropriateness No. 2010.0070A** attached hereto as "EXHIBIT A" which is incorporated herein by reference as though fully set forth.

APPEAL AND EFFECTIVE DATE OF MOTION: APPEAL: Any aggrieved person may appeal this Motion to the Board of Appeals within fifteen (15) days after the date of this Motion No. XXXX. The effective date of this Motion shall be the date of this Motion. For further information, please contact the Board of Appeals in person at 1650 Mission Street, (Room 304) or call 575-6880.

I hereby certify that the Historical Preservation Commission ADOPTED the foregoing Motion on March 3, 2010.

Linda D. Avery Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: March 3, 2010

Motion No. XXXX Hearing Date: March 3, 2010

### **EXHIBIT A**

# **Certificate of Appropriateness**

Case No: 2010.0070A

Assessor's Block: Lot: 0141/011

Address of Property: 150 Broadway

**Date Application Filed**: February 3, 2010

Historic District: Northeast Waterfront Historic District

### **Description of Work Proposed:**

The proposed project is for the installation of four (4) wireless telecommunication antennas mounted to the existing rooftop penthouse and for the installation of four (4) wireless telecommunication equipment cabinets located adjacent to the existing rooftop penthouse within a new 10 ft. X 20 ft. enclosure (either chain link with dark slats or a solid wall painted to match the penthouse). The antennas will be partially screened and painted to match the surface to which they are attached.

### Final Action by the Historic Preservation Commission on March 3, 2010:

The Commission has reviewed the proposed work and has determined that the work would not have a significant impact upon and would not be potentially detrimental to the subject building or the Northeast Waterfront Historic District. A motion to was passed X-X by the Historic Preservation Commission in conformance with the drawings stamped Exhibit A, on file in the docket for Case No. 2010.0070A, based upon the following findings:

### Findings of the Historic Preservation Commission:

- The proposed wireless communication facilities have been strategically positioned to be minimally visible from adjacent public rights-of-way and public open spaces.
- The four (4) proposed wireless communication antennas would be located on a secondary elevation and on an existing rooftop penthouse at a height not to exceed the structure to which the antennas are attached; therefore, no antenna would disrupt the existing cornice or parapet lines.
- The equipment cabinets and screen enclosure would be sufficiently setback from street-facing elevations and the height would not exceed approximately 7 feet above the roof surface, or 2 feet above the height of the parapet; thereby reducing visibility.
- The new screen enclosure and cabinets are located downslope on the south side of the much taller penthouse, thus hidden within the viewscape from Telegraph Hill.
- The proposed project meets the following *Secretary of the Interior's Standards for Rehabilitation*:

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### Standard 9.

New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

For these reasons, the proposal overall, is appropriate for and consistent with the purposes of Article 10, meets the standards of Article 10, and the Secretary of Interior's Standards for Rehabilitation.

**Duration of this Certificate of Appropriateness:** This Certificate of Appropriateness is issued pursuant to Article 10 of the Planning Code and is valid for a period of three (3) years from the effective date of approval by the Historic Preservation Commission. Implementation of this Certificate of Appropriateness is accomplished by completion of construction work (verified through a job card signed by a District Building Inspector) after issuance of an appropriate Building Permit.

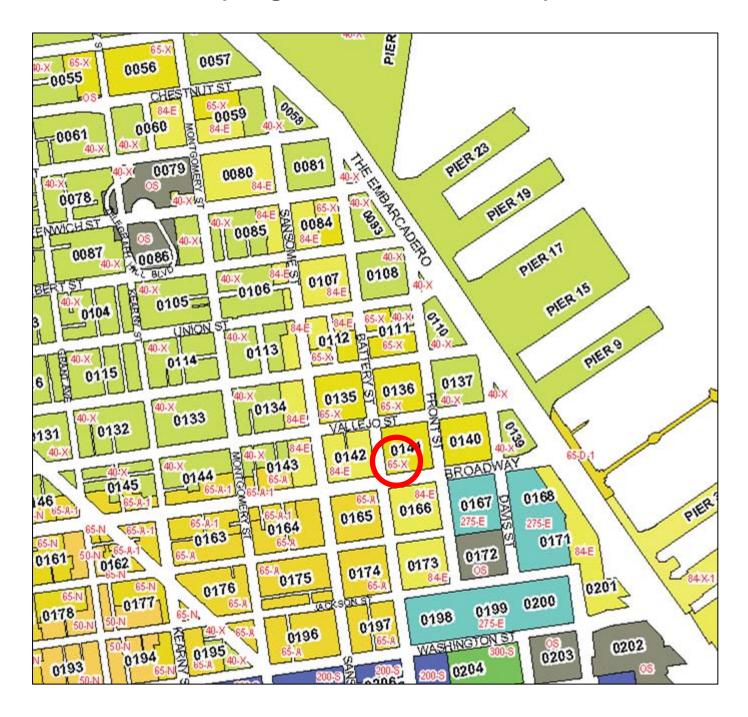
**APPEAL**: Any aggrieved person may appeal the action on this Certificate of Appropriateness by appeal of the issuance of the Building Permit required to implement the proposed work. Contact the Board of Appeals (575-6880) for instructions on filing a permit appeal.

THIS IS NOT A PERMIT TO COMMENCE ANY WORK OR CHANGE OF OCCUPANCY UNLESS NO BUILDING PERMIT IS REQUIRED. PERMITS FROM THE DEPARTMENT OF BUILDING INSPECTION (and any other appropriate agencies) MUST BE SECURED BEFORE WORK IS STARTED OR OCCUPANCY IS CHANGED.

SAN FRANCISCO
PLANNING DEPARTMENT

# **Zoning Map**

# (Height and Bulk Districts)





Certificate of Appropriateness Hearing Case Number 2010.0070A 150 Broadway

# **Zoning Map**

# (Art. 10 Preservation Districts)



<sup>&</sup>quot;G" – Telegraph Hill Historic District



Certificate of Appropriateness Hearing Case Number 2010.0070A 150 Broadway

<sup>&</sup>quot;H"- Northeast Waterfront Historic District

<sup>&</sup>quot;I" – Jackson Square Historic District

### A. OWNER/PROJECT SPONSOR INFORMATION

Property Owner's Name: Chinatown Community Development Center

Address: 1525 Grant Ave., San Francisco, CA. 94133 Telephone: (415) 984-1450

Applicant's Name: T-Mobile West Corporation

Address: 1855 Gateway Blvd., 9th floor, Concord, CA. 94520 Telephone: (415) 309-8979

Primary Contact for Project Information: Joseph Camicia

Address: 3850 23<sup>rd</sup> St., San Francisco, CA. 94114 Telephone: (415) 722-1883

Fax Number: n/a

File Date:

Email: CamiciaConsultant@gmail.com

### **B. PROJECT INFORMATION**

Address of Project: 150 Broadway (aka 810 Battery)

Cross Streets: Broadway at Battery St.

Complete if applicable:

Building Permit Application (BPA) No.: 2009.0723.3316

BPA File Date: 7/23/2009

### C. APPLICANT'S AFFIDAVIT

Under penalty of perjury, I, the applicant, declare that I am the owner or authorized agent of the owner(s) of this property, and that the information presented is true and correct to the best of my knowledge

Signed:

Joseph Camicia

(Print Name of Applicant in Full)

Date:

December 14, 2009

D. ENVIRONMENTAL DETERMINATION (To be filled out by Preservation Technical Specialist during application intake)

Determination:\_\_\_\_\_

# E. ZONING CLASSIFICATION / HISTORIC RATINGS

Assessor's Block/Lot: 0141/011

Zoning District: C-2

Landmark No. and Name: n/a

Article 11 Category: n/a

1976 AS Survey Rating: n/a

Heritage Rating: n/a

Height/Bulk: 65-X

Historic District: Northeast Waterfront District

Conservation District: n/a

Here Today Page: n/a

Other Surveys: n/a

### F. PROJECT DESCRIPTION

Other:

**★** Alteration ★Addition

☐ New Construction

□ Demolition

Present/Previous Use: Mixed commercial and residential Proposed Use: Same, with new wireless telecommunications facilities on roof

Describe proposed scope of work: <u>T-Mobile proposes to install a new wireless</u> telecommunications facility on the roof of 150 Broadway (aka 810 Battery St.) consisting of three (3) antennas mounted to the rooftop penthouse and four (4) equipment cabinets located within a new 10' x 20' enclosure directly adjacent to the penthouse. The antennas will be partially screened and painted to match the penthouse to which they are to be mounted. The equipment area will be enclosed within a new fence (either chain link with dark slats or a solid wall painted to match).

Describe existing features and materials to be removed: No existing features or materials are proposed to be removed.

Note: Attach continuation sheets, if necessary.

# G. COMPLIANCE WITH APPLICABLE PLANNING CODE PRESERVATION STANDARDS

In reviewing applications for Certificates of Appropriateness, the Landmarks Board will consider whether the proposed work would be appropriate for and consistent with the purpose of Article 10 of the Planning Code. Please describe below how the proposed work would preserve, enhance, or restore, and not damage or destroy, the building's exterior architectural

The proposed wireless facilities have been designed to have minimal new visual impact and will not significantly alter any exterior feastures of the subject building. The antennas will be flushmounted to various areas of the rooftop penthouse and will be painted to match their surroundings. The enclosed equipment area will be situated at the base of the central penthouse underneath an existing staircase. Neither the antennas nor the equipment cabinets will add any height to the building and will only be minimally visible from surrounding public rights of way.

This question applies to proposed work in historic districts only. Describe how the proposed project is compatible with the character of the pertinent historic district described in the specific appendix to Article 10 of the Planning Code. (Appendices B through K of Article 10 provide in-depth information on each of the individual historic districts, describing their unique features and particular standards for review within the district.)

The proposal constitutes a minor exterior alteration that is consistent with Appendix D to Article 10 of the San Francisco Planning Code (Northeast Waterfront Historic District). The subject building, constructed in 2007, is consistent with the material, size, and bulk requirements stipulated in Section 6 of Appendix D and the proposed T-Mobile facility does not significantly alter any of those features or otherwise bring the site out of compliance with any part of the Planning Code.

Note: Attach continuation sheets, if necessary.

# H. COMPLIANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARDS (STANDARDS) FOR THE REHABILIATION OF HISTORIC PROPERTIES

Please describe how the proposed project meets the following 10 rehabilitation Standards. Please respond to each statement as completely as possible (i.e. give reasons as to how and why the project meets the Standards rather than merely concluding that it does so).

1. The property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships:

The T-Mobile antennas and associated equipment cabinets are to be mounted to existing penthouse structures and will not result in any change to building materials, features, spaces or spatial relationships. To ensure as little visual impact as possible, all new facilities will be painted to match their surroundings. The proposal will not result in any additions to the existing height of the building and will not cast any shadows on adjacent properties. The newly introduced use (rooftop wireless facility) will not have any impact on the existing residential or commercial uses of the subject building or any similar uses that may be located in adjacent buildings.

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize the property will be avoided:

The subject building, while it is located within the locally designated Northeast Waterfront Historic District, is not considered a historic building. However, the building was clearly design with the intent to preserve the existing characteristics of the historic neighborhood, and the T-Mobile will not alter any prominent exterior features. The proposal does not include any removal or of distinctive materials or significant alteration of any features, spaces, and spatial relationships.

3. Each property will be recognized as a physical record of its time, place and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken:

This project consists only of minor facilities that will blend, as much as possible, with the building's existing aesthetics. All facilities will be painted to match their surroundings and screened from view to fullest extent practicable. The proposed antennas and equipment will not add a false sense of historical development as they are small auxiliary facilities located among other similar facilities on the building's roof.

4. Changes to a property that have acquired historic significance in their own right will be retained and preserved:

Because the subject building was only constructed two years ago, it likely doesn't yet qualify as a building that has acquired historic significance. However, as previously discussed, none of the building's prominent features will be altered by the T-Mobile proposal, and any acquired historic significance shall be retained and preserved.

5. Distinctive materials, features, finishes, and construction techniques or examples of fine craftsmanship that characterize a property will be preserved:

All materials, features, finishes and construction techniques will not be adversely affected by the proposal. The proposal simply consists of installing three antennas and an equipment enclosure on the roof, none which will significantly alter any of the prominent features of the subject building.

6. Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence:

Not applicable. The building is new and does not contain any deteriorated historic features.

7. Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used:

Not applicable. No chemical or physical treatment is proposed.

8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken:

Not applicable. The project will not impact any archeological resources.

9. New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment:

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<u>Installation of the proposed T-Mobile facilities will not destroy any historic materials, features or spatial relationships.</u>

10. New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would not be impaired:

If ever required or desirable, the T-Mobile facility could be removed without any permanent impact. The form and integrity would be entirely preserved.

Note: Attach continuation sheets, if necessary.

# NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) FCC-FOCUSED CHECKLIST EVALUATION

T-MOBILE USA - SITE NAME: 801 Battery
T-MOBILE USA - SITE NUMBER: SF-23213E



Prepared for:



T-Mobile West Corporation dba T-Mobile USA 1855 Gateway Boulevard, 9<sup>th</sup> Floor Concord, California 94520

30-Nov-2009

Prepared by:



EarthTouch, Inc. 3135 North Fairfield Road, Suite D Layton, Utah 84041 and "unintentional" take (take that results from, but is not the purpose of, the activity in question). Impacts to active migratory binds' nests are interpreted by the USFWS as "take" of migratory birds under the MBTA. During the site inspection, no bird nests were noted on the building or within nearby landscaped areas. Development of the proposed PCs facility would not involve removing or trimming trees and would not occur in areas adjacent to trees that may provide for potential nesting locations. The proposed PCS facility would not involve disturbance to naturally occurring grasslands and therefore would not impact ground-nesting birds. Therefore, the proposed action would not result in "take" or nigratory birds protected under the MBTA.

### 47 CFR 1.1307 (a)(4)

Would the proposed PCS facility affect sites, districts, buildings, structures, or objects significant in American history, architecture, engineering, archaeology, and/or cultural resources that are listed or eligible for listing in the National Register of Historic Places?

### No Effect

Section 106 of the National Historic Preservation Act of 1966 (NHPA) requires Federal agencies to evaluate the effects of proposed undertakings on historical, archaeological, and cultural resources. Guidelines for implementing the Section 106 process are promulgated by the Advisory Council on Historic Preservation (ACHP) in "Protection of Historic Properties" (36 CFR Part 800), which mandate Federal agency compliance with other laws related to historic preservation including the Archaeological and Historic Preservation Act (AHPA), Executive Order 11593, and NEPA. Other agency-specific rules also require consideration of a proposed project's impact on historic properties and cultural resources. Historic properties is a term of defined statutory meaning defined by the FCC to include "...any historic or prehistoric site, building, structure, or object included in, or eligible for inclusion in the National Register of Historic Places (NRHP)."

An initial step in the process outlined in 36 CFR Part 800 is delineating an area of potential effect (APE), which is defined as the geographic area within which a proposed action facility may have an effect on historic properties, if present. The FCC has defined the APE for wireless telecommunications projects to include the area affected by construction and project staging as well as visual impacts, which varies depending upon the height of the structure.

The Nationwide Programmatic Agreement for the Collocation of Wireless Antennas (16-Mar-2001) aka "Collocation Agreement" provides three sets of conditions ("Stipulations") that categorically exclude a proposed PCS facility from the consultative requirements set forth in 36 CFR Part 800 and Section 106 of the NHPA in some cases. Stipulation V applies to proposed wireless telecommunication facility collocations on buildings and non-FCC regulated tower structures. Conformance with the conditions of Stipulation V requires the following:

- The building, structure, or object be less than 45 years old; and
- The building, structure, or object that cannot be within a historic district, or within 250 feet of a
  historic district, or have deployed antennas be visible from ground level from within a historic
  district; and
- The building, structure, or object is not listed on, or eligible, determined eligible, or potentially eligible for listing on the NRHP; and
- The collocation licensee has not received a letter or notification of complaint to the FCC regarding the proposed PCS facility from the public.



Relevant information pertaining to the subject property includes:

- Information obtained from the San Francisco Planning Department indicated that the building on the site was constructed in 2007.
- Review of the *Directory of Properties in the Historic Property Data File for San Francisco County* (Historic Properties Directory) indicated that the subject property is not listed in this directory.
- The subject property is not located within 250 feet of a historic property or a historic district;
- To our knowledge, T-Mobile USA has not received notification from a member of the public, the California Office of Historic Preservation (OHP), or other party regarding potential adverse effect to a historic property associated with the PCS facility collocation.

The proposed antenna deployment locations, lease area, access easement, and utility easement are located within the building. No trenching outside the building appears necessary during construction of the proposed PCS facility or to enable operation of the proposed PCS facility. Therefore, the proposed PCS facility collocation would not likely result in direct impacts to a *historic property*.

Based upon a review of readily available information; the proposed PCS facility collocation, as depicted in Construction Drawings appears to conform to the conditions of Stipulation V of the *Nationwide Programmatic Agreement for the Collocation of Wireless Antennas* (16-Mar-2001) and would, therefore, be *categorically excluded* by FCC rule from the consultation requirements of Section 106. As such, consultation with the California OHP, pursuant to Section 106 would not be warranted.

### 47 CFR 1.1307 (a)(5)

Would the proposed PCS facility affect Native American religious sites?

No Effect

Jaws, Numerous federal statutes. implementing regulations require consultation with Native American tribes, including the National Historic Preservation Act (NHPA) Resources Protection Archaeological Native American Graves Protection Repatriation Act, and Archaeological Historic Preservation Act. Implementing regulations found in 36 CFR Part 800 require agencies of the federal government to determine if their actions would have an affect on archaeological sites or proporties of historic or American cultural significance Native communities or other ethnic groups.

There are more than 100 federally recognized Native American tribes within the State of California. The Native American Heritage Commission (NAHC) was established in 1976





Optimizer® Panel Dual Polarized Antenna equipped with (2) AISG 2.0 ACU motors

### **Product Description**

A combination of two X-Polarized antennas in a single radome, this pair of variable tilt antennas provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features a wide downtilt range. This antenna is optimized for performance across the entire AWS frequency band (1710-2155 MHz). The antenna comes pre-connected with two antenna control units (ACU).

### Features/Benefits

- Variable electrical downtilt provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High Suppression of all Upper Sidelobes (Typically <-20dB).
- Gain tracking difference between AWS UL (1710-1755 MHz) and DL (2110-2155 MHz) <1dB.
- Two X-Polarised panels in a single radome.
- Azimuth horizontal beamwidth difference <4deg between AWS UL (1710-1755 MHz)</li> and DL (2110-2155 MHz)
- Low profile for low visual impact.
- Dual polarization; Broadband design.
- Includes (2) AISG 2.0 Compatible ACU-A20-N antenna control units

### **Technical Specifications**

**Electrical Specifications** 

Frequency Range, MHz	
Antenna Type	
Electrical Down Tilt Option	
Gain, dBi (dBd)	
Electrical Downtilt, deg	
Horizontal Beamwidth, deg	
VSWR	
Vertical Beamwidth, deg	

Gain, dBi (dBd)	18.4 (16.3)	
Electrical Downtilt, deg	0-10 , 0-10	
Horizontal Beamwidth, deg	65	
VSWR	< 1.5:1	
Vertical Beamwidth, deg	5.9 to 7.7	
1st Upper Sidelobe Suppression, dB	> 18 (typically > 20)	
Upper Sidelobe Suppression, dB	> 18 all (typically > 20)	
Polarization	Dual pol +/-45°	
Front-To-Back Ratio, dB	>26 (typically 28)	
Maximum Power Input, W	300	
Isolation between Ports, dB	> 30	
Lightning Protection	Direct Ground	
3rd Order IMP @ 2 x 43 dBm, dBc	> 150 (155 Typical)	
Sid Order IIII O E A 10 COLLY COL		

1710-2170 Panel Dual Polarized

Variable

### **Mechanical Specifications**

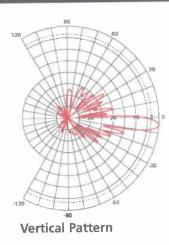
information contained in the present datasheet is subject to confirmation at time of ordering.

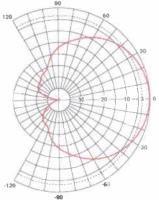
Rated Wind Speed, km/h (mph)	160 (100)
Survival Wind Speed, km/h (mph)	200 (125)
Max Wind Loading Area, m² (ft²)	0.64 (6.6)
Maximum Thrust @ Rated Wind, N (lbf)	787 (177)
Front Thrust @ Rated Wind, N (lbf)	787 (177)
Reflector Material	Aluminum
Radiating Element Material	Brass
Radome Material	Fiberglass
Connector Type	(4) 7-16 DIN Female
Connector Location	Bottom
Mount Type	Downtilt Kit w/Scissor Kit
Mounting Hardware	APM40-2 + APM40-E2
Weight w/o Mtg Hardware, kg (lb)	18.5 (40.7)
Packing Dimensions, HxWxD, mm (in)	1550 x 420 x 260 (61 x 16.5 x 10.3)
Overall Length, m (ft)	1.42 (4.6)
Dimensions - HxWxD, mm (in)	1420 x 337 x 80 (55.9 x 13.3 x 3.15)
Shipping Weight, kg (lb)	25 (55)
3.1.15	

<sup>\*</sup> This data is provisional and subject to change.









**Horizontal Pattern** 

Print Date: 21.2.2007



### TMZXXX-6516-R2M

DualPol®, Hex Port Panel Antenna

**DualPol®** Teletilt®

- Patented cross dipole and feed system
- Rugged, reliable design with excellent PIM suppression
- Includes factory installed AISG 2.0 RET actuator
- Fully compatible with Andrew Teletilt® remote control antenna system

### ELECTRICAL

1710-2155 Frequency Range (MHz):

Characteristic Impedance (Ohms): 50  $63 \pm 8$ Azimuth BW (Deg):  $7.3 \pm 1.0$ Elevation BW (Deg):  $17.4 \pm 0.8$ Gain (dBi): +45° Polarization:

40 2° Front-to-Back Ratio (dB) >30 >30 >30 Copol, 180° ± 30°: 4° 80 2° 60 Upper Sidelobe (dB) Main Beam to +30°: >16 >18 >18 >18

1.35:1 / 16.5 VSWR / Return Loss (dB):

Port-to-Port Isolation (dB): >30 2-8\* Electrical Tilt Range (Deg): Electrical Downtilt Accuracy (Deg): ± 0.3

8º Cross-pol (dB) >13 >13 >12 3 dB Beamwidth:

Intermodulation Products (dBc)

155 3rd Order, 2 x 20 Watts: 250 Max. Input Power (Watts): **Lightning Protection:** DC Ground

\*Antenna full tilt range includes 0-10°, specs reduced at 0°, 1°, 9°, and 10°.

### PERFORMANCE TRACKING

Gain Variation (dB) (between UL

1.6 and DL frequency pair):

Electrical Tilt Accuracy (Deg) (between UL and DL frequncy

< 0.5 pair within 0.5°):

Azimuth HPBW (Deg) (between

16 UL and DL frequency pair):

### MECHANICAL

16 / 35.2 Net Weight (kg / lbs):

1523 x 500 x 90 mm Dimensions-LxWxD: 60 x 19.7 x 3.5 inch (with actuator)

0.65 / 7.0 Max. Wind Area (m² / ft²): 990 / 223 Max. Wind Load (N / lbf): Max. Wind Speed (km/h / mph): 241 / 150

Hot Dip Galvanized Hardware Material: 7-16 DIN, Female (4) **Connector Type:** 

Off White Color: DB5083 Standard Mounting Hardware:



Note: Actuators and protective shrouds included with this antenna are not shown.

Andrew Wireless Solutions www.andrew.com

Customer Service 24 hours U.S.A., Canada, Mexico 1-800-255-1479 U.K.: 0800 250055 Other Europe +44 592 782 612

Visit our Wob site at www.andrew.com or contact your local Andrew Wireless Solutions representative for more information.

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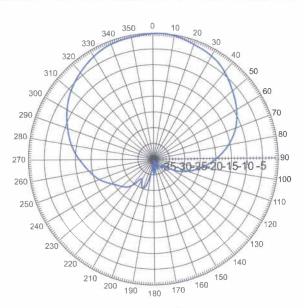
# TMZXXX-6516-R2M

DualPol®, Hex Port Panel Antenna

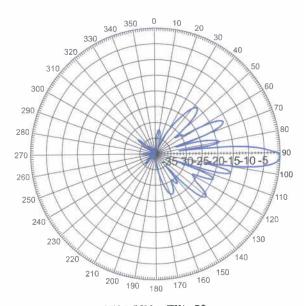
**DualPol®** Teletilt®

### **AZIMUTH PATTERN**

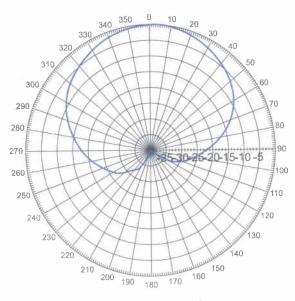
### **ELEVATION PATTERN**



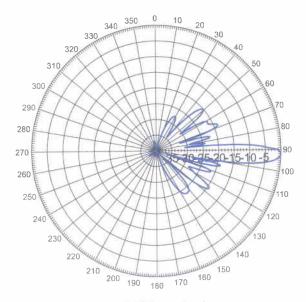
1732 MHz, Tilt: 2°



1732 MHz, Tilt: 2°



1880 MHz, Tilt: 2°



1880 MHz, Tilt: 2°

Note: Scale 5 dB per division.

### Andrew Wireless Solutions www.andrew.com

Customer Service 24 hours U.S.A., Canada, Mexico 1-800-255-1479 U.K. 0800 250055 Other Europe:+44 592 782 612

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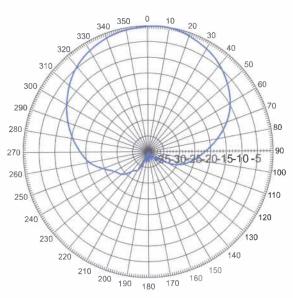
## TMZXXX-6516-R2M

DualPol®, Hex Port Panel Antenna

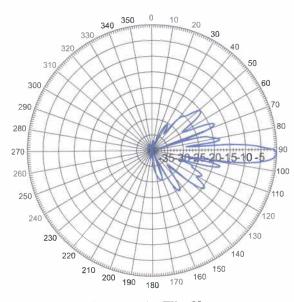
**DualPol®** Teletilt®

### **AZIMUTH PATTERN**

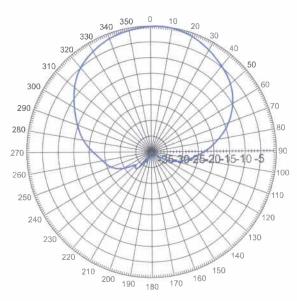
### **ELEVATION PATTERN**



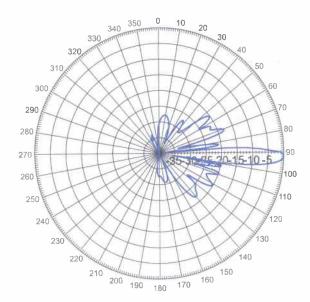
1960 MHz, Tilt: 2°



1960 MHz, Tilt: 2°



2132 MHz, Tilt: 2°



2132 MHz, Tilt: 2°

Note: Scale 5 dB per division.

### Andrew Wireless Solutions www.andrew.com

Customer Service 24 hours

Visit our Web site at www.andrew.com or contact your local Andrew Wireless Solutions representative for more information.

Customer Service 24 hours

U.S.A., Canada, Mexico: 1-800-255-1479

U.K. 0800 250055

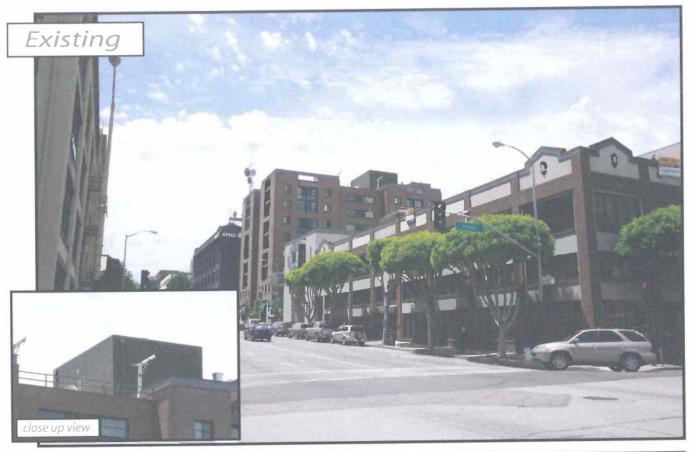
Other Europe: +44 592 782 612

Other Europe: +44 592 782 612

Other Europe: +45 592 782 612

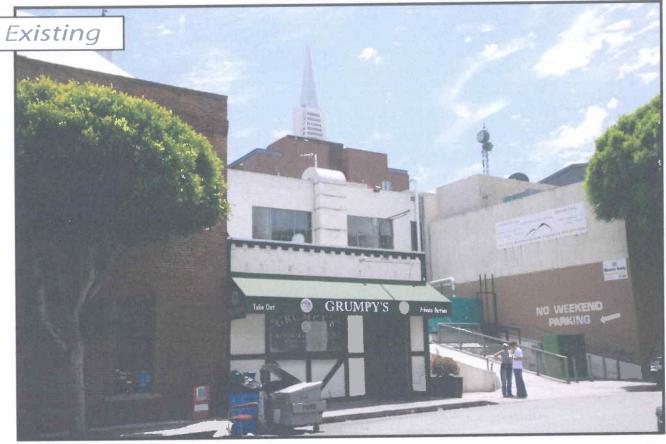
Other Europe: +46 592 782 612

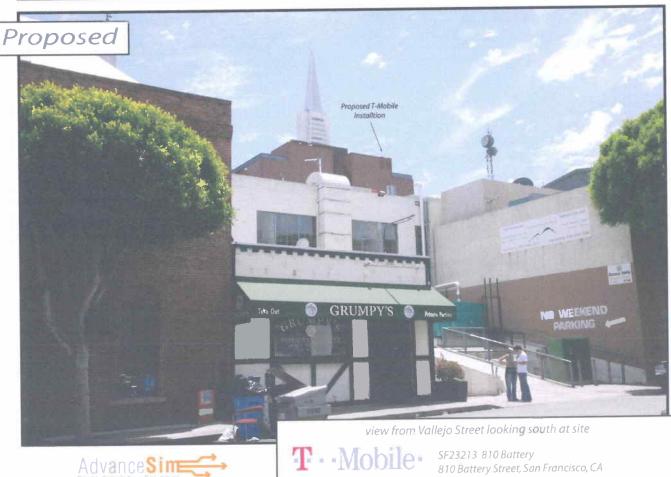
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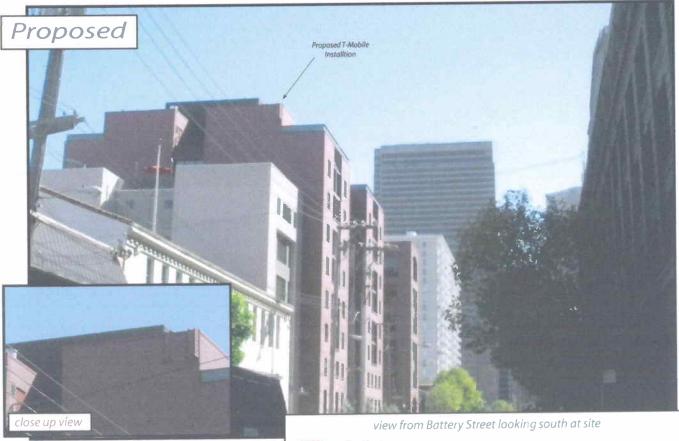
AdvanceSime





AdvanceSime





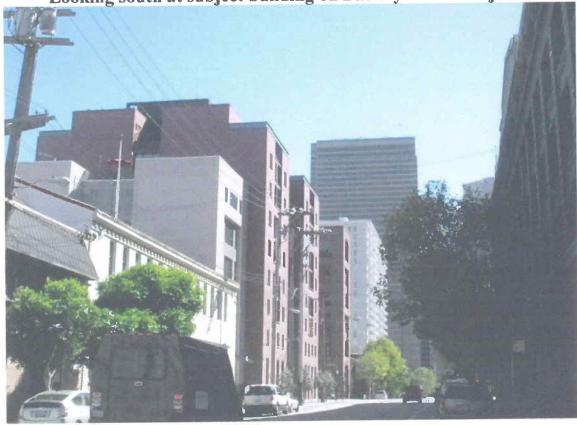
AdvanceSing

T · Mobile

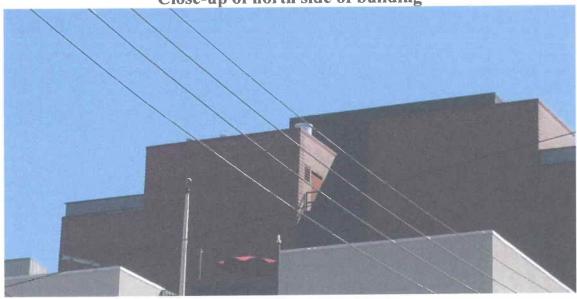
SF23213 810 Battery 810 Battery Street, San Francisco, CA Looking west at subject building from Broadway near Front St.



Looking south at subject building on Battery near Vallejo St.



Close-up of north side of building



Close-up of penthouse area



# T-MOBILE WEST CORPORATION

# T - Mobile -

1855 GATEWAY BLVD 9TH FLOOR CONCORD, CA 94520

810 BATTERY

SF23213E



# PROJECT DESCRIPTION

A (N) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF A (N) LEASE AREA W/ (4) (N) EQUIPMENT CABINETS & 💋 (N) ANTENNAS W/

### PROJECT INFORMATION

SITE NAME: COUNTY:

SITE ADDRESS:

810 BATTERY SAN FRANCISCO

SITE #: SF23213E JURISDICTION: CITY OF SAN FRANCISCO

AT&T

TELEPHONE:

0141-011

810 BATTERY ST

SAN FRANCISCO, CA 94111

CURRENT ZONING:

CONSTRUCTION TYPE:

OCCUPANCY TYPE:

PROPERTY OWNER:

CHINATOWN COMMUNITY DEVELOPMENT CENTER

SAN FRANCISCO, CA 94133

1855 GATEWAY BLVD, 9TH FLOOR

CONCORD, CA 94520-3200

LEASING CONTACT:

APPLICANT:

ATTN: JIM JAGGERS (916) 213-8407 PERMIT ME INC 3850 23RD STREET

SAN FRANCISCO, CA 94114

ZONING CONTACT:

ATTN: JOSEPH CAMICIA (415) 722-1183 3850 23RD STREET SAN FRANCISCO, CA 94114

CONSTRUCTION CONTACT:

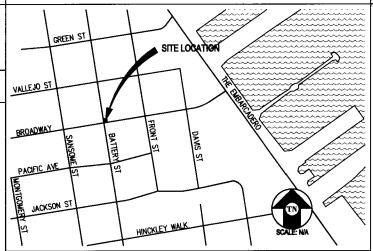
ATTN: KRESSTON HAYNES (209) 938-7251 SITE SERVICES II C AMERICAN CANYON, CA 94503

LATITUDE: LONGITUDE: N 37' 47' 55.36" NAD 83 W 122" 24" 03.45" NAD 83

AMSL:

±23.52

### **VICINITY MAP**



### **DRIVING DIRECTIONS**

1855 GATEWAY BLVD, CONCORD, CA 94520-3200 810 BATTERY ST, SAN FRANCISCO, CA 94111

		070 57
1.	HEAD SOUTHEAST ON GATEWAY BLVD	230 FT
2.	TURN RIGHT TOWARD CLAYTON RD	112 FT
3.	TURN RIGHT AT CLAYTON RD	0.2 Mi
4.	TAKE THE RAMP ONTO CA-242 S	1.3 MI
5.	MERGE ONTO 1-680 S	3.2 MI
6.	TAKE THE EXIT ONTO CA-24 W TOWARD OAKLAND/LAFAYETTE	13.6 MI
7.	TAKE THE EXIT ONTO I-580 W	1.5 MI
8.	TAKE EXIT 19A ON THE LEFT TO MERGE ONTO 1-80 W	6.7 MI
9.	TAKE THE FREMONT ST EXIT	0.4 MI
10.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR FOLSOM ST	0.2 MI
11.	TURN LEFT AT FOLSOM ST	0.3 MI
12.	TURN LEFT AT THE EMBARCADERO	0.4 MI
13.	CONTINUE STRAIGHT TO STAY ON THE EMBARCADERO	0.3 MI
14.	TURN LEFT AT BROADWAY ST	0.1 MI
15.	TURN RIGHT AT FRONT ST	354 FT
16.	TURN LEFT AT VALLEJO ST	348 FT
17.		279 FT
END	AT 810 BATTERY ST, SAN FRANCISCO, CA 94111	
ESTH	MATED TIME: 37 MINUTES ESTIMATED DISTANCE: 28.5 MILES	

### **CODE COMPLIANCE**

ALL WORK & MATERIALS SHALL BE PERFORMED & 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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 1. 2007 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
- 2. 2007 CALIFORNIA BUILDING CODE
- 3. 2007 CALIFORNIA ELECTRICAL CODE
- 4. 2007 CALIFORNIA MECHANICAL CODE
- 5. 2007 CALIFORNIA PLUMBING CODE
- 6. 2007 CITY OF SAN FRANCISCO FIRE CODE
- 7. LOCAL BUILDING CODES
- B. CITY/COUNTY ORDINANCES
- 9. ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

### HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

SHEET DESCRIPTION REV  T-1 TITLE T-2 FIRE DEPARTMENT CHECKLIST T-3 SIGNAGE DETAILS T-4 EMF REPORT T-5 BATTERY INFO LS-1 SURVEY A-1 SITE PLAN A-2 EQUIP PLAN, ANTENNA PLANS, & DETAILS A A-3 ELEVATION A-4 ELEVATION A-5 FOULP FLEVATION & DETAILS A A-5 FOULP FLEVATION & DETAILS A  RF  LEASING ZONING  CONSTRUCTION T-MOBILE		SHEET INDEX	APPROVAL	
T-2 FIRE DEPARTMENT CHECKLIST T-3 SIGNAGE DETAILS T-4 EMF REPORT T-5 BATTERY INFO LS-1 SURVEY A-1 SITE PLAN A-2 EQUIP PLAN, ANTENNA PLANS, & DETAILS A A-3 ELEVATION A-4 ELEVATION A  LEASING  ZONING  CONSTRUCTION  T-MOBILE	SHEET	DESCRIPTION	REV	
A-6 DETAILS - S-1 DETAILS - S-2 DETAILS A E-1 ELECTRICAL PLAN - F-2 GROUNDING PLAN -	T-1 T-2 T-3 T-4 T-5 LS-1 A-1 A-2 A-3 A-4 A-5 A-6 S-1 S-2 E-1	TITLE FIRE DEPARTMENT CHECKLIST SIGNAGE DETAILS EMF REPORT BATTERY INFO SURVEY SITE PLAN EQUIP PLAN, ANTENNA PLANS, & DETAILS ELEVATION ELEVATION EQUIP ELEVATION & DETAILS DETAILS DETAILS DETAILS ELECTRICAL PLAN	A - A A A A A	LEASING ZONING CONSTRUCTION

# 810 **BATTERY**

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

ISSUE STATUS			
Δ	DATE	DESCRIPTION	BY
	04-24-09	ZD 90%	-
	04-26-09	ZD 100%	-
	07-19-09	CD 90%	-
07-22-09 12-09-09			_
			CL
	-	-	-
DRAWN BY: C. SYLVESTER			
CHECKED BY: L. HOUGHTBY			
APPROVED BY: B. McCOMB			
DATE: 12/09/09			





# -Mobile-H

SHEET TITLE: TITLE SHEET NUMBER:

1855 GATEWAY BLVD CONCORD, CA 94520

### SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 1 OF 4

# 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 1999) FCC OET Bulletin 65 - 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 (2007 CBC)

2007 California Fire Code (2007 CFC) 2007 California Mechanical Code (2007 CMC) 2007 San Francisco Fire Code (2007 SFFC) 2002 NEPA 13 Automatic Sprinkler Systems

2002 NFPA 72 National Fire Alarm Code

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.) The RF report shall not specify locking the roof access door to keep the general public off of the roof per 2007 SFFC 1207.7.1. The RF report shall be wet stamped and signed by COMPLETE 10. EITHER: an engineer.
- 4. Drawings shall reflect the striped/exclusion areas per the above RF Report N/A

### SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 2 OF 4

2.06 PERMIT APPLICATION CHECKLIST FOR CELLULAR ANTENNA COMPLETE 5. Notice to Workers warning signage as applicable per the above RF Report: N/A SEE PAGE T-3 Signage shall be in English, Mandarin 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 cell-site shutdown signage and any other space necessary to warn workers (ie. 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 C95.2-1999); and Location and signage detail with site specific information shall be included on a drawing sheet.

> SEE EMF 6. Provide a quantitative three-dimensional perimeter of the RF levels if the N/A antennas appear to encroach on any means of exiting.

COMPLETE 7. Camouflaged antennas shall have 4inch x 4inch signage permanently mounted to the exterior of the RF screen as provided below. These antennas shall also have the stripped 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 vellow triangle around the antenna symbol (see ANSI C95.2-1999); and Location and signage detail shall be included on a drawing sheet.

1. Description of scope of work (both on the application and plans) shall represent the actual work being does.

COMPLETE

SEE PAGE E-1

Site. In general, buildings should only have one electrical service is installed for the cell 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.

COMPLETE 9. Provide route of all cables from their origin to the equipment (plan, elevation and section views). Cables/wiring shall not be allowed in exit COMPLETE enclosures or in front of dry standpipes (2007 CBC 1020.1.1).

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.

### SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 3 OF 4

* Signage shall be permanently mounted next to the battery's electrical
panel and clearly labeled in a phenolic label with a white background an
black lettering. The title block shall be a red background and 1" high
white lettering.
with the control of t

\* The actual breaker(s) shall be a phenolic label (red background and white lettering) with lettering not less than 1/8" high.

\* 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 shutoff.

\* A copy of the signage shall be included on a drawing sheet. N/A \* Provide SFFD approved key lock box for equipment/electrical room for

battery/equipment shutdown. \* The permanently mounted label above the lock box shall read "SFFD. 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

Provide 24 hour/7 days a week telephone service center shut-down: SPECIFIED

\* Provide Instructional signage for emergency shutdown of the cell site including telephone number and cell site identification number. SPECIFIED \* 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.

SPECIFIED \* The sign shall also state whether or not the back-up battery power to the antennas is also shut-down. SPECIFIED

\* 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?

\* What is the volume of refrigerant used by the cooling unit(s)?

\* What is the type of refrigerant per 2007 CMC?

\* Assure compliance with 2007 CFC Section 606.

\_\_12. Plans state sequence of operations for any new detection, dampers, or

### SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 4 OF 4

COMPLETE 13. Plans shall clearly show locations of batteries and battery cabinets.

COMPLETE 14. Plans shall state whether the building is fully sprinklered or not.

COMPLETE 15. In fully sprinklered buildings, equipment rooms shall be provided with

sprinklers in accordance with NFPA 13.

COMPLETE 16. Provide a table on a drawing sheet showing the manufacturer, model, SEE PAGE T-5 type, amount (callons or pounds) of electrolyte flooded lead acid. Nic. type, amount (gallons or pounds) of electrolyte, flooded lead acid, Ni-Cd, VRLA or Li-ion. Please show detailed compliance with 2007 CFC Section 608 on the drawing sheets. When 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 SFFD Headquarters at 698 2nd St.

Prepared by: Mr. Bret McComb, PE

(Please include professional title and stamp)

STREAMLINE ENGINEERING & DESIGN, INC. Firm Name:

11768 ATWOOD RD, SUITE 20 Address:

AUBURN, CA 95603

Phone Number: 1-530-368-0532

For further Information see the FCC website: http://www.fcc.gov/oet/rfsafety or contact the

San Francisco Fire Department 1660 Mission Street, 4th Floor San Francisco, CA 94103 (415) 558-6187

810 **BATTERY** 

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

	ISSUE STATUS			
Δ	DATE	DESCRIPTION	BY	
Г	04-24-09	ZD 90%	-	
	D4-26-09	ZD 100%	-	
	07-19-09	CD 90%	-	
	07-22-09	CD 100%	-	
A	12-09-09	CD 100%	CL	
	_	-	_	
DRAWN BY: C. SYLVESTER				

C. SYLVESTE CHECKED BY: L. HOUGHTBY APPROVED BY: B. McCOMB

12/09/09 DATE:





# --Mobile H

SHEET TITLE: FIRE DEPARTMENT **CHECKLIST** SHEET NUMBER:

BLVD 94520

5 GATEWAY I

T-2

### SIGNAGE AND STRIPING INFORMATION

- 1. 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 REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS. THE MORE RESTRICTIVE GUIDE LINE OR REGULATION SHALL BE FOLLOWED AND OVER RIDE THE LESSER.
- 2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY T-MOBILE IS 1mWcm2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY T-MOBILE IS 5mWcm2
- 3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOSE NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE
- 4. 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
- 5. 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 TO 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
- 6. 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 T-MOBILE 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 ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF, WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE T-MOBILE'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 T-MOBILE CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.
- 7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE T-MOBILE 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 T-MOBILE CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE
- 8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.



## **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 1-888-662-4662 (SITE NUMBER: SF23213)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

# **AVISO A TRABAJADORES**

EXISTEN ANTENAS DE RADIOFREQUENCIA EN ESTE TECHO. POR FAVOR USE PRECAUCION ALREDOR DE LAS ANTENAS Y OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS INFORMACION, LLAME AL TELEFONO 1-888-859-1400 (NUMERO DE SITIO: SF23213)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.130

# 工作人員注意

此屋宇房顶有射頻天線裝置 在天線範圍四周務請小心,並遵照各已張貼之指示 及/或標繳行事 如點進入樂區範圍或索取更多資料

請致電1-888-859-1400 此站區號: (SF23213)

依據FCC條例第47 CFR1.1310 獻執行

- 1. WARNING SIGN TO BE MOUNTED AT ANTENNAS LOCATIONS.
- 2. SIGN SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS.
- SIGNAGE SHALL BE CLEARLY LABELED IN A PHENOLIC LABEL WITH A WHITE BACKGROUND AND BLACK LETTERING, AND SHALL BE READABLE FROM AT LEAST (15) FEET FROM THE SIGN.
- 4. PROPOSED 12"X20" PLASTIC SIGN



# **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.

SITE NO. SF23213

# TYPICAL CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.

# NOTICE

### GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS

All personnel should have electromagnetic energy

- (EME) awareness training.

  All personnel entering this site must be authorized. obey all posted signs.
- Assume all antennas are active
- Assume all antennas are active.

  Before working on antennas, notify owners and disable appropriate transmitters.

  Maintain minimum 3 feet clearance from all antennas Do not stop in front of oritennas.

  Use personal RF monitors while working near antennas.
- O Never operate transmitters without shields during normal operation.

  Do not operate base station antennas in equipment

# TYPICAL CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED TO THE STAIRWELL SIDE OF THE ROOF ACCESS

### 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

Contact T-Mobile at 1-888-662-4662 and follow their instructions prior to perfo maintenance or repairs closer than 3 feet from the

This is T-Mobile Wireless Site# SF23213

T-Mobile

### NOTES:

- SIGN SHALL BE A PHENOLIC LABEL WITH WHITE BACKGROUND AND BLACK LETTERING. THE TITLE BLOCK SHALL BE A RED BACKGROUND AND 1" HIGH WHITE LETTERING.
- 2. CONTRACTOR TO PLACE SIGNS IN FOLLOWING LOCATIONS: BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT, FCC ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL, AND THE BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF.

# BATTERY DISCONNECT SIGN



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

> CONTACT PHONE NUMBER: 1-888-662-4662

SITE IDENTIFICATION NUMBER:

Site No: SF23213 ENTER SUTE ID ABOVE

LOCATION OF EQUIPMENT: ☑ ROOF TOP

□ OTHER THIS EQUIPMENT HAS BATTERY BACKUP:

□ NO

NOTE: SIGN TO BE PERMANENTLY MOUNTED ON DOOR OF BTS CABINET

## 810 **BATTERY**

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

ISSUE STATUS △ DATE DESCRIPTION BY D4-24-09 ZD 90% -D4-26-09 ZD 100% -07-19-09 CD 90% -07-22-09 CD 100% -▲ 12-09-09 CD 100% CL

DRAWN BY: C. SYLVESTER CHECKED BY: L. HOUGHTBY

APPROVED BY: B. McCOMB



and Design



 Mobile **8 \_\_** 

1855 GATEWAY I CONCORD, CA 9

94520

SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:

T-3

## T-Mobile West Corp. • Base Station No. SF23213C 810 Battery Street • San Francisco, California

### Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by T-Mobile, West Corp...a. personal, wireless, telecommunications, carrier, ...to\_evaluate\_the\_proposed\_base\_station (Site, No., SF23213C). Jocated, at, 810, Battery, Street, in, San, Francisco, California, for, compliance, with appropriate guidelines limiting human exposure to radiofrequency ("RF") electromagnetic, fields.

### Background

The, San, Francisco, Department, of, Public, Health, has, adopted, a,, 10-point, checklist, for, determining the control of $compliance, of, WTS, facilities, with, prevailing, safety, standards., \\ , The, acceptable, thresholds, for the standard standa$ exposures, of, unlimited, duration, come, from, the, guidelines, adopted, by, the, FCC, at, the, direction, of, the

Aporox Frequency	Occupational Limit.	Public Limit
2,100,MHz	5.00,mW/cm <sup>2</sup>	1.00,mW/cm <sup>2</sup>
1,950	5.00	1.00
870	2.90	0.58
855	2.85	0.57
30-300	1.00	0.20
	2,100,MHz 1,950 870 855	1,950 5.00 870 2.90 855 2.85

The, site, was, visited, by, Rajat, Mathur, P.E., a, qualified, engineer, employed, by, Hammett, &, Edison, Inc., during normal business hours on June 24, 2009, a non-holiday, weekday, and, reference has been made to,additional,information,provided,by,,T-Mobile,and,drawings,by,Streamline,Engineering,and,Design, Inc.,dated,November,4,,2009.

- 1. The location of all existing antennas and facilities at site. Existing RF levels. There, were, reported, no, other, wireless, facilities, installed, at, this, site., Existing, RF, Jevels, for, a, person anywhere, at, ground, near, the, site, were, Jess, than, J%, of, the, most, restrictive, public, exposure, limit
- 2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas

No. other, 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

There, were, observed, no, other, WTS, facilities, within, 100, feet, of, the, proposed, site,, although, antennas, and the proposed of thefor, use, by, TV, Station, KPIX, are, Jocated, about, 140, feet, away, across, Battery, Street, and, antennas, for, use the property of theby,Sprint,Nextel,are,Jocated,about,200,feet,Jo,the,north.



# T-Mobile West Corp. • Base Station No. SF23213C 810 Battery Street • San Francisco, California

T-Mobile antennas themselves, such as might occur during maintenance work on the building, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory warning signs' at the roof access door and at 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 FCCadopted guidelines.

### 10. Statement of authorship.

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

Based on the information and analysis above, it is my professional opinion that the T-Mobile West Corp. base station operation located at 810 Battery Street 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.



HAMMETT & EDISON, INC.

# T-Mobile West Corp. • Base Station No. SF23213C 810 Battery Street • San Francisco, California

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

T-Mobile proposes to install four directional panel antennas above the roof of the eight-story building Two RFS Model APX16DWV-16DWV-S-E-A20 antennas would be mounted on the north face of a mechanical equipment penthouse at an effective height of about 84 feet above ground and would be oriented toward 350°T. The two other antennas would be Andrew Model TMZXXX-6516-R2M, mounted on another mechanical equipment penthouse at an effective height of about 911/2 feet above ground, 16 feet above the roof, and would be oriented singly toward 100°T and 230°T.

- 5. Power rating (maximum and expected operating power) for all existing and proposed backup
- T-Mobile proposes to install Ericsson RBS transmitters whose maximum power rating is 60 watts, but are expected to operate below 40 watts, such that the power radiated from the antenna 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 by T-Mobile in any direction would be 2,960 watts, representing simultaneous operation at 1,960 watts for PCS and 1,000 watts for AWS.
- Plot or roof plan showing method of attachment of antennas, directionality of antennas, and height above roof level. Discuss nearby inhabited buildings.

The proposed antennas are to be installed as described in Item 4 above. There were observed buildings of similar height nearby, at least 90 feet away; closer buildings are all lower.

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 T-Mobile operation is calculated to be 0.0020 mW/cm<sup>2</sup>, which is 0.20% of the applicable public exposure limit; cumulative RF levels at the site are estimated to remain below 1% of the public limit. The maximum calculated RF exposure level at the nearest building of similar height is 12% of the public limit. The maximum calculated cumulative level on the roof of the subject building is 14% of the public exposure limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend up to 19 feet out from the antenna face and to much lesser distances above, below, and to the sides of the antennas and does not extend into uncontrolled areas.

Due to their mounting locations, the T-Mobile antennas are not 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 HAMMETT & EDISON, INC.

## 810 **BATTERY**

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

	ISSUE	STATU	S
	DATE	DESCRIPTION	В
	04-24-09	ZD 90%	1
	04-26-09	ZD 100%	ľ
	07-19-09	CD 90%	1
	07-22-09	CD 100%	1
$\Delta$	12-09-09	CD 100%	ರ
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DR	AWN BY:	C. SYLVESTE	R
CHECKED BY:		L. HOUGHTB	ľ
API	PROVED BY:	B. McCOMB	
DA.	TE:	12/09/09	







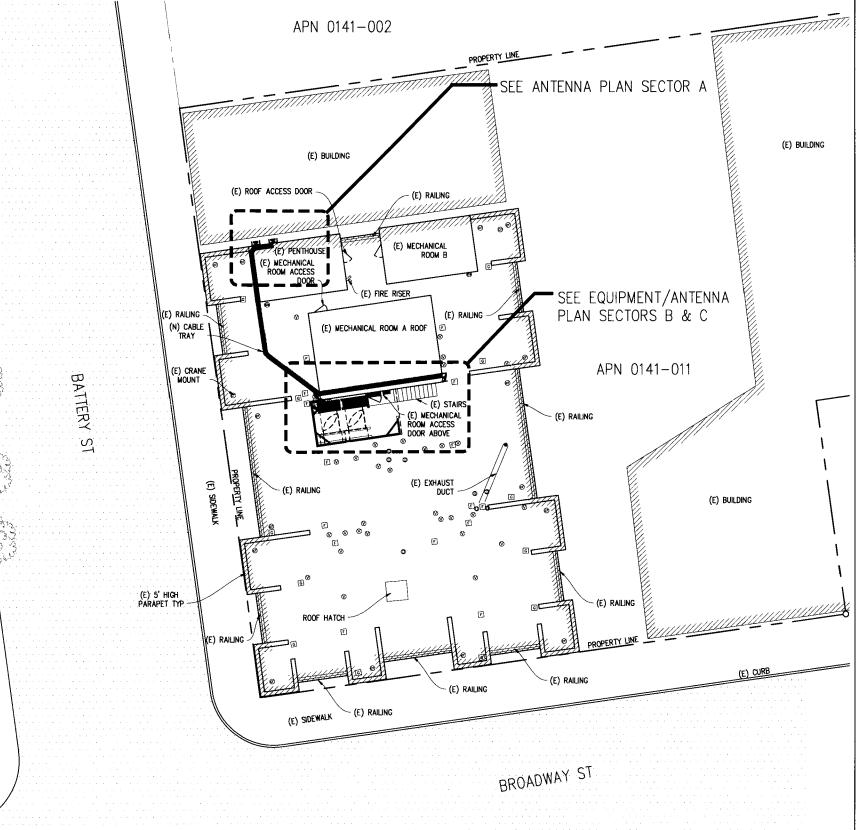
SHEET TITLE: EMF REPORT SHEET NUMBER:

T-4

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.

### PROJECT GENERAL NOTES

- 1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS NOTED OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPUSHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- It is the responsibility of the contractor to pay for permit fees and to obtain said permits and to coordinate inspections.
- 6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
- 8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULLES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 9. THE GENERAL CONTRACTOR SHALL SUPERWISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- 10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
- 11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- 12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
- 14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- 15. CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
- 16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSITIED FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONISHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
- 17. CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.





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# 810 BATTERY

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

		STATUS		
		DESCRIPTION	BY	
	04-24-09	ZD 90%	-	
	04-26-09	ZD 100%	_	
	07-19-09	CD 90%	Ι =	
07-22-09 12-09-09	CD 100%	-		
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DRAWN BY: CHECKED BY: APPROVED BY:		-	-	
		C. SYLVESTER		
		L. HOUGHTB	Y	
		B. McCOMB		
DA	TE:	12/09/09		





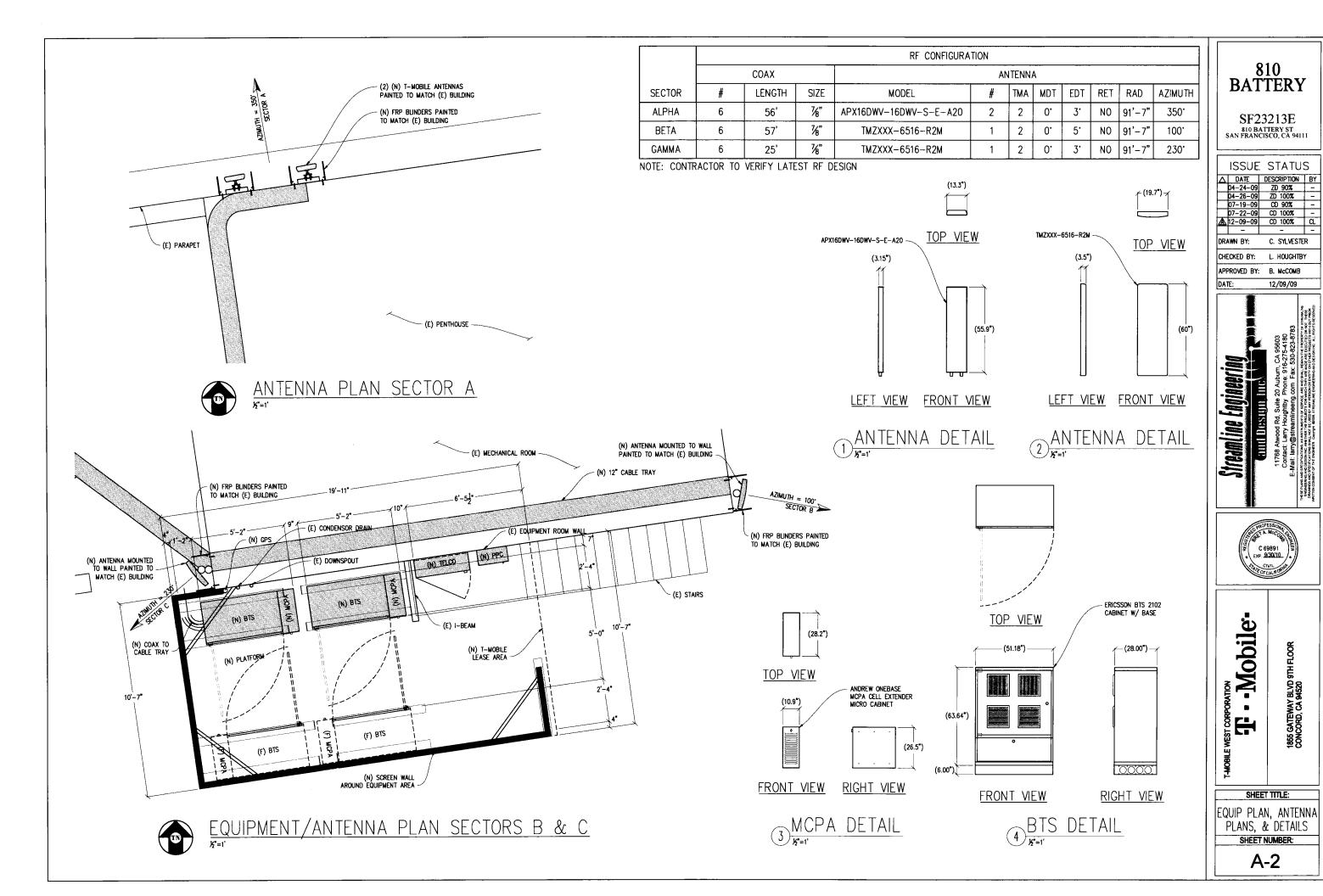
T - Mobile1855 GATEWAY BLVD 9TH FLOOR
CONCORD, CA 94520

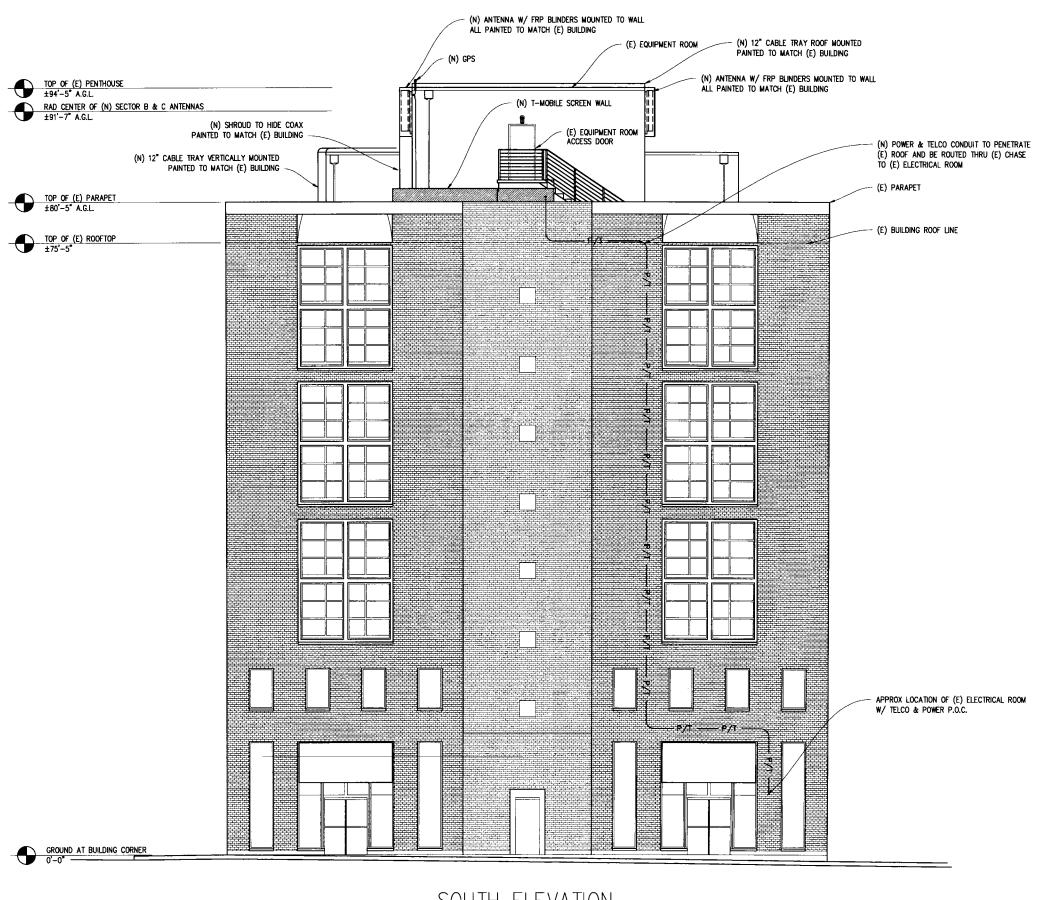
SHEET TITLE:

SITE PLAN

SHEET NUMBER:

A-1





810 BATTERY

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

	ISSUE	STATU	S
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DRAWN BY: C. SYLVESTER
CHECKED BY: L. HOUGHTBY

APPROVED BY: B. McCOMB
DATE: 12/09/09

Cuttl Design Inc.

11788 Atwood Rd, Suite 20 Aubum, CA 95603
Contact. Larry Houghby Phone: 916-275-4189
E-Mall: larry @streamlineerig.com Fax: 530-822-8783
Re page 100-2012-91899 (April 2012-9189)
Re page 100-2012-91899 (April 2012-9189)
Representation (April 2012-9189)
Representation (April 2012-9189)



WEST CORPORATION
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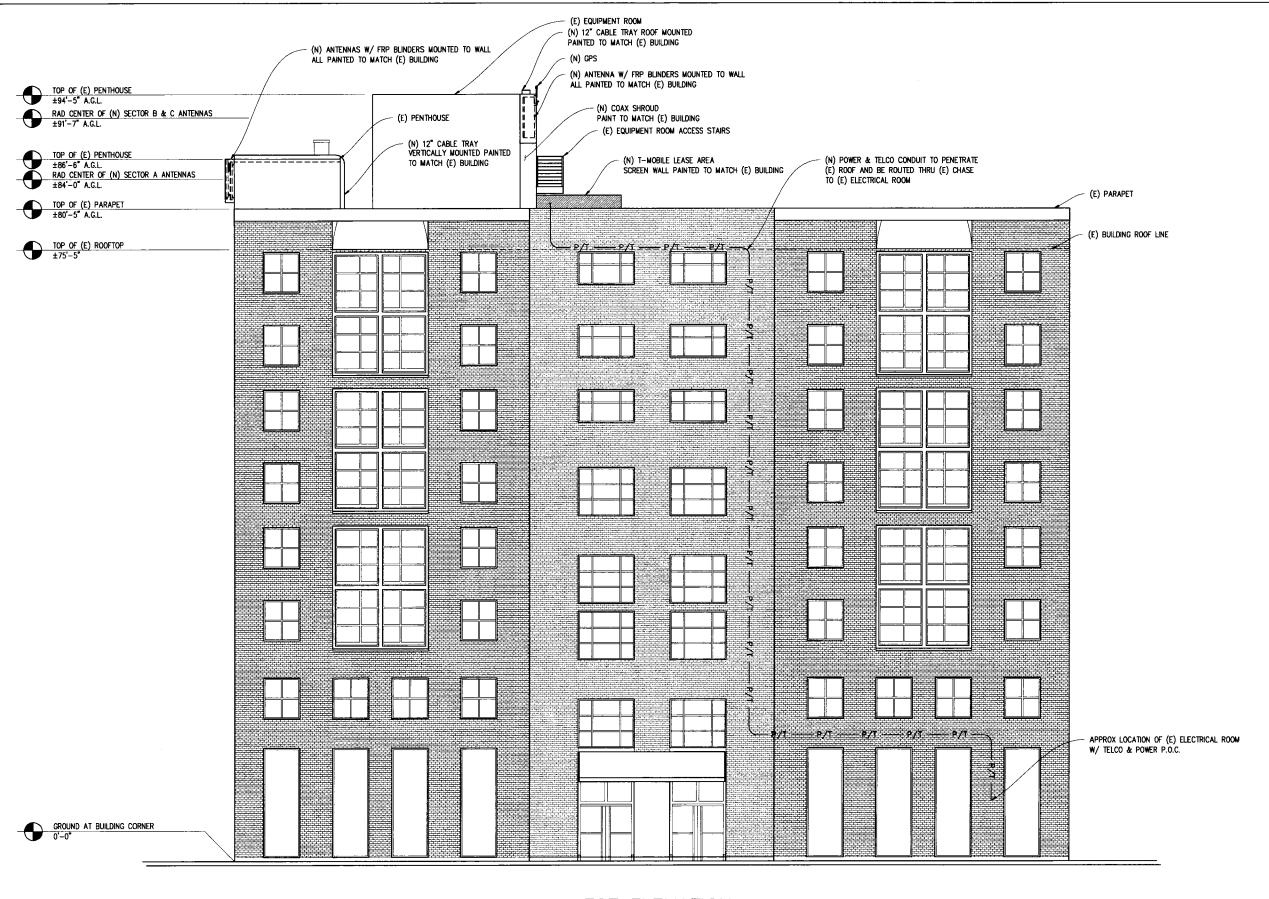
SHEET TITLE:

ELEVATION

SHEET NUMBER:

A-3

SOUTH ELEVATION



810 BATTERY

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

	ISSUE	STATU	S
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	04-26-09	ZD 100%	ı
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DRAWN BY: C. SYLVESTER
CHECKED BY: L. HOUGHTBY

APPROVED BY: B. McCOMB

DATE: 12/09/09

COMPLINE Engineering

Continues Awood Rd. Suite 20 Aubum, CA 95603



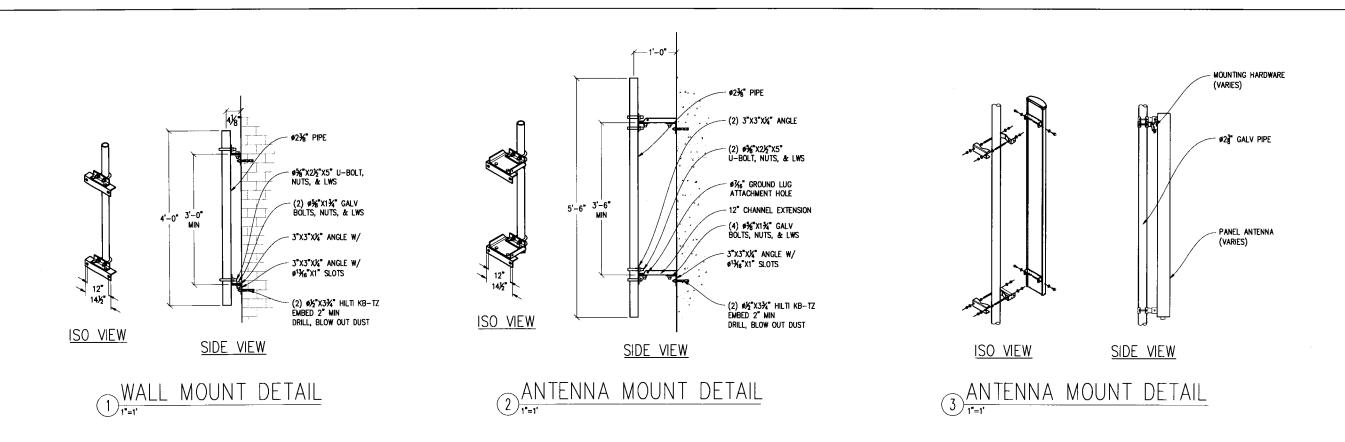
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TE -- Mobile-

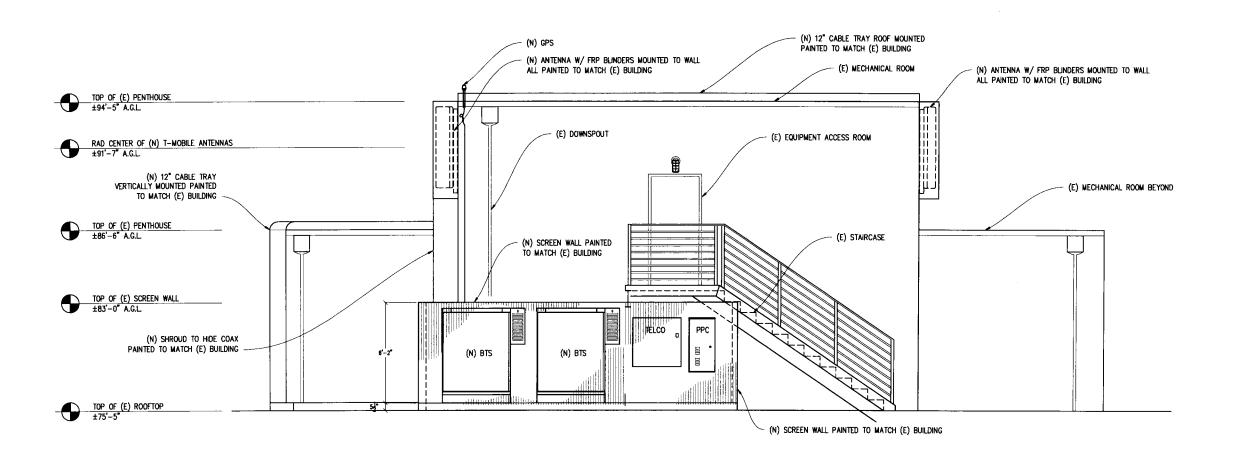
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A-4

WEST ELEVATION







SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

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C. Sylvester				
L. HOUGHTBY				
B. McCOMB				
12/09/09				





MOBILE WEST CORPORATION

T - Mobile

1855 GATEWAY BLVD 9TH FLOOR
CONCORD, CA 94520

SHEET TITLE:

EQUIP ELEVATION
& DETAILS

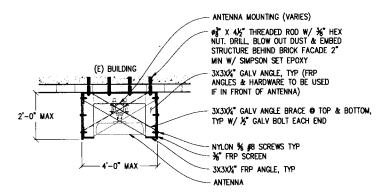
SHEET NUMBER:

A-5

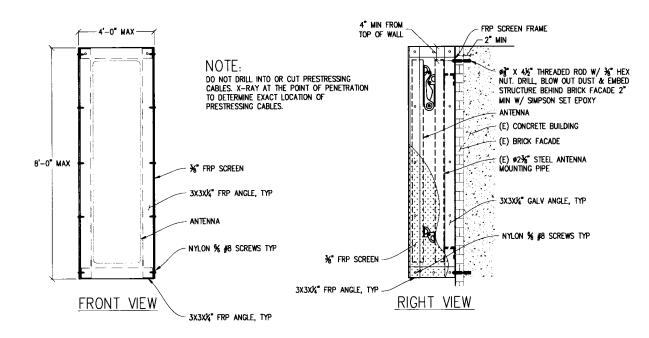
EQUIPMENT ELEVATION

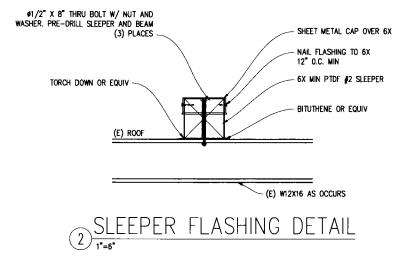
### FRP NOTES

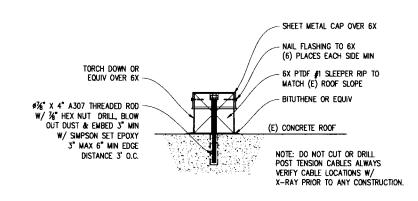
- THE FRP FRAME PERIMETER IN FRONT OF ANTENNAS SHALL BE ASSEMBLED W/ FRP STRUCTURAL MEMBERS ONLY. STEEL MAY BE USED BEHIND ANTENNAS.
- 2. FIR OUT VERTICAL FRP FRAME WHERE FIBERGLASS PANELS DO NOT REST FLUSH AGAINST FRAME WITH A \$\frac{1}{2}\] OR EQUIVALENT SIZE TO DEPTH OF FIRRING REQUIRED. FRP SHIM SHOULD RUN THE ENTIRE LENGTH OF THE FRAME WHEN NEEDED. FRP SCREEN SHALL BE FLUSH AGAINST THE FRAME AT ALL CONNECTION POINTS.
- 3. THE FRP SCREEN SHALL BE SUPPORTED WITH FRAME PLACEMENT PER MANUFACTURER SPECS.
- THE FRP SCREEN SHALL BE SCREWED TO FRAME AS OUTLINED IN THE SCHEDULE PER MANUFACTURER SPECS.
- ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING, OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF
- 6. ALL STEEL MEMBERS SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & COLD GALVANIZED WHEN CUT, DRILLED, OR WELDED.



### TOP VIEW







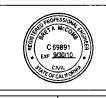
SLEEPER FLASHING DETAIL

## 810 BATTERY

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

	ISSUE	STATU	S		
Δ	DATE	DESCRIPTION	BY		
	04-24-09	ZD 90%	_		
	04-26-09	ZD 100%	-		
	07-19-09	CD 90%	-		
	07-22-09	CD 100%	-		
A	12-09-09	CD 100%	CL		
	1	-	_		
DRAWN BY:		C. SYLVESTE	C. Sylvester		
CHECKED BY:		L. HOUGHTB	Y		
APPROVED BY:		B. McCOMB			

12/09/09



T-MOBILE WEST CORPORATION

T - Mobile

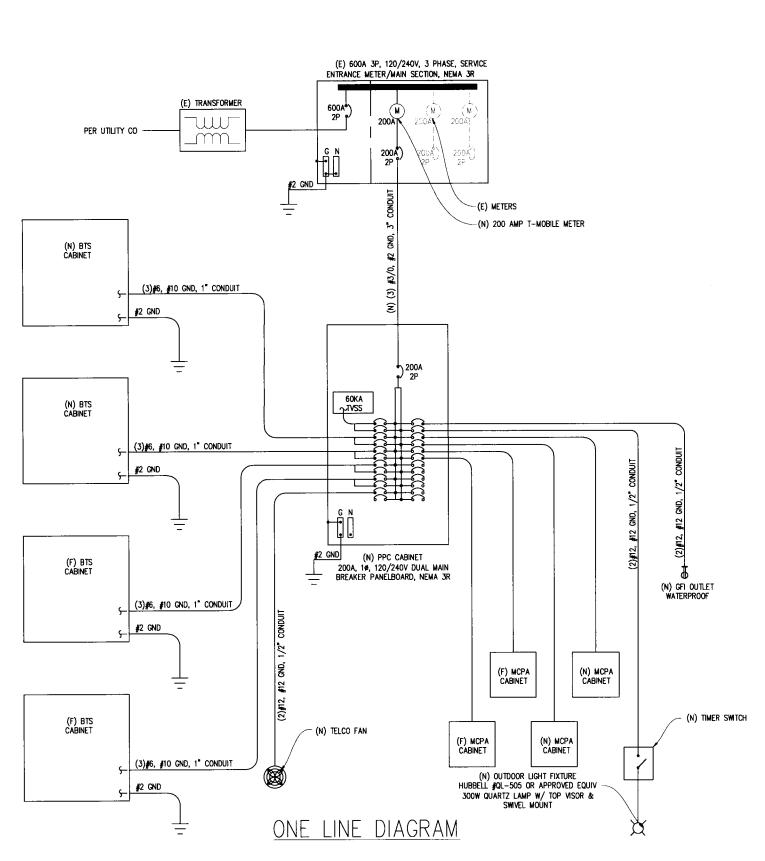
1855 GATEWAY BLVD 9TH FLOOR
CONCORD, CA 94520

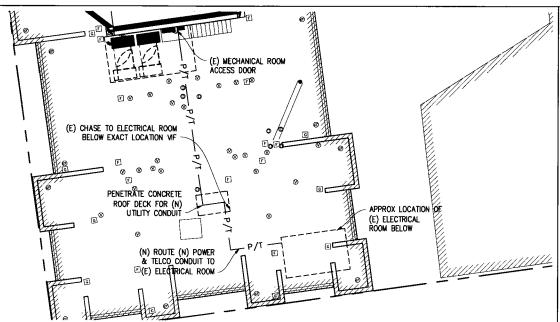
SHEET TITLE:

DETAILS

SHEET NUMBER:

FRP BLINDERS DETAIL







# ROOFTOP ELECTRICAL PLAN

### ELECTRIC LEGEND

### M) METER

CIRCUIT BREAKER

\_\_\_ MAIN SERVICE GROUND

--- WIRED CONNECTION

7 SWITCH

C LIGHTS

GFI RECEPTACLE

TELCO FAN

### ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE NEC AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- 3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- 4. ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- 5. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- 6. ELECTRICAL WIRING SHALL BE COPPER #12 MIN WITH TYPE XHHW, THWN, OR THHN INSULATION.
- 7. ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- 8. ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- 9. A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- 10. WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.

# PANEL SCHEDULE

IAMEPLATE: P	PANEL A			SC	LEVEL	: 10,00	Ю (	VOLTS:	120V/240V, 1	ø	
LOCATION: INSIDE								BUSS AMPS: 200A			
AOUNTING : W	ALL MOUNTE	0						MAIN CB:	200A		
ØΑ	ø₿		BKR	CIRC	OUT	BKR				øΑ	₽B
LOAD VA	LOAD VA	LOAD DESCRIPTION	AMP/ POLE		0	AMP/ POLE		LOAD DESCRIPTION		LOAD VA	LOAD VA
800		SURGE ARRESTOR	1 60/2	01	02	20/1	GFI RE	CEPTACLES	_	800	
	800	•	11 -	03	04	20/1	LIGHTS				300
2,974		(N) BTS #1	30/2	05	06	20/1	(N) MC	PA		850	
	2,974	,	Π-	07	08	20/1	(N) MC	PA			850
2,974		(N) BTS #2	30/2	09	10	20/1	(F) MC	PA		850	
	2,974	-	T _	11	12	20/1	(F) MC	PA			850
2,974		(F) BTS #3	30/2	13	14		1				
	2,974		1 -	15	16						
2,974		(F) BTS #4	30/2	17	18						
	2,974		Ч	19	20						
500		TELCO FAN	20/1	21	22						
		SPARE		23	24						
13,196	12,696	PHASE TOTALS						F	HASE TOTALS	2,500	2,000

NOTE: EXISTING LOADS HAVE NOT BEEN FIELD VERIFIED. THEY ARE APPROXIMATE BASED ON EXISTING CB SIZES. CONTACT THE ENGINEER IF THE LOADS DIFFER FROM THAT WHICH IS SHOWN ON THE PLANS

# 810 BATTERY

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

=				
	ISSUE	STATU	S	
Δ	DATE	DESCRIPTION	BY	
	04-24-09	ZD 90%	1	
	04-26-09	ZD 100%	-	
	07-19-09	CD 90%	-	
	07-22-09	CD 100%	-	
▲	12-09-09	CD 100%	CL	
	-	-	_	
DRA	WN BY:	C. SYLVESTER		
CHE	CKED BY:	L. HOUGHTB	Y	
APF	ROVED BY:	B. McCOMB		

DATE:

12/09/09





HE WEST CORPORATION

T - Mobile.

1885 GATEWAY BLYD STUELDOD

SHEET TITLE:

ELECTRICAL PLAN

SHEET NUMBER:

### GROUNDING NOTES

- 1. GROUNDING SHALL COMPLY WITH NEC ART. 250.
- 2. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS. THE GROUND RODS SHALL BE (\*X 10' COPPER CLAD STEEL SPACED AT 10' INTERVALS MAX. RODS SHALL BE INTERCONNECTED WITH #2 SOLID TINNED BARE COPPER GROUND WIRE BURIED A MINIMUM 18" BELOW GRADE. AN ONSITE INSPECTION BY THE OWNER SHALL BE REQUIRED PRIOR TO ANY BACKELL
- 3. USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE CROUNDING (UNLESS OTHERWISE SPECIFIED) AND \$2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- 4. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- 5. EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
- 6 CONNECTIONS TO FOUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
- 7. APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
- 8. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUCS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
- 9. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
- 10. THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:
- A. CONNECT TO EXISTING GROUNDING SYSTEMS
- B. CONNECT TO BUILDING STEEL COLUMNS
  C. INSTALL A NEW GROUNDING SYSTEM OR
- D. INSTALL NEW CHEMICAL RODS

Upon completion of the grounding installation the contractor shall employ an owner approved 3rd party to conduct a "fall of potential" test and submit a report of such test for approval to either the owner or construction manager.

## GROUND LEGEND

MECHANICAL CONNECTION

EXOTHERMIC CADWELD

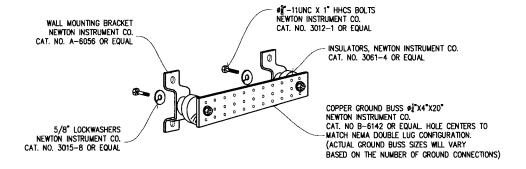
TYP. CADWELD INSPECTION WELL

TYP F DIA. X 10'-0" LONG COPPER CLAD GROUND ROD . 10' O.C. MAX & 18" MIN BELOW FINISH GRADE

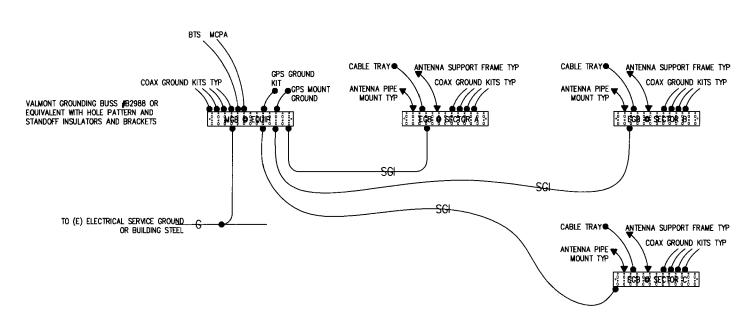
GATE GROUNDING STRAP

TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN

-SGI- GROUND WIRE #2 STRANDED GREEN INSULATED WIRE



GROUND BUSS DETAIL



2 GROUND BUSS CONNECTION DIAGRAM NOT TO SCALE

## 810 **BATTERY**

SF23213E 810 BATTERY ST SAN FRANCISCO, CA 94111

ISSUE STATUS							
Δ	DATE	DESCRIPTION	BY				
	04-24-09	ZD 90%	1				
	04-26-09	ZD 100%	1				
	07-19-09	CD 90%	1				
	07-22-09	CD 100%	-				
▲	12-09-09	CD 100%	CL				
	_	-	1				
DRAWN BY: C. SYLVESTER							
$\Gamma^{-}$							

CHECKED BY: L. HOUGHTBY APPROVED BY: B. McCOMB

DATE: 12/09/09





-Mobile 1855 GATEWAY BLVD 9 CONCORD, CA 94520 H

SHEET TITLE: GROUNDING PLAN

SHEET NUMBER: