



SAN FRANCISCO PLANNING DEPARTMENT

Executive Summary Conditional Use Authorization

HEARING DATE: JANUARY 10, 2013

Date: January 8, 2013
Case No.: **2012.0505C**
Project Address: **1101 Fillmore Street**
Current Zoning: NC-3 (Neighborhood Commercial, Moderate Scale) District
50-X Height and Bulk District
Block/Lot: 0755/002
Project Sponsor: AT&T Mobility represented by
Dave Hiatt, On-Air, LLC.
465 First Street, Suite 101
Sonoma, CA 95476
Staff Contact: Michelle Stahlhut – (415) 575-9116
Michelle.Stahlhut@sfgov.org
Recommendation: **Approval with Conditions**

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PROJECT DESCRIPTION

The proposal is to install a Wireless Telecommunications Services (“WTS”) facility consisting of one additional panel antenna concealed within a radome and associated equipment located on the roof of the subject building as part of AT&T Mobility’s Wi-Fi telecommunications network. The antennas are proposed on a Location Preference 2 Site (Co-location Site) according to the WTS Siting Guidelines. The proposed antenna would measure approximately 20” high by 7” wide by 3” thick. The antenna would be mounted on the roof of the subject building inside a radio frequency transparent radome. The maximum height of the antenna is 53’ 9” above grade. The associated equipment cabinet would also be located on the rooftop and would not be visible from the public right of way. The facility is proposed on a Location Preference 2 Co-location Site (Preferred Location).

SITE DESCRIPTION AND PRESENT USE

The building is located on Assessor’s Block 0755, Lot 002 on the northwest corner of Fillmore Street and Golden Gate Avenue. This site is within a NC-3 (Neighborhood Commercial, Moderate Scale) Zoning District, and a 50-X Height and Bulk District. The Project Site contains a four-story residential and commercial building. The subject building is on a corner lot with approximately 137 feet of frontage on Fillmore Street and 70 feet of frontage on Golden Gate Avenue. There are currently other macro antenna sites operated by AT&T and two other carriers on the rooftop.

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is located in the Western Addition neighborhood. Nearby uses along Fillmore Street consist of a mix of commercial and residential buildings with housing over neighborhood-serving commercial/retail uses, a fast food chain, the Northern District Police Station, a church, and a park.

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	December 20, 2012	December 20, 2012	20 days
Posted Notice	20 days	December 20, 2012	December 20, 2012	20 days
Mailed Notice	20 days	December 20, 2012	December 20, 2012	20 days

PUBLIC COMMENT

- As of January 3, 2012, the Department has received no public comment on the proposed project.

ISSUES AND OTHER CONSIDERATIONS

- Health and safety aspects of all wireless projects are reviewed under the Department of Public Health and the Department of Building Inspections.
- An updated Five Year Plan with approximate longitudinal and latitudinal coordinates of proposed locations, including the subject site is on file with the Planning Department.
- All required public notifications were conducted in compliance with the City's code and policies.

REQUIRED COMMISSION ACTION

Pursuant to Section 712.83 of the Planning Code, Conditional Use authorization is required for a WTS facility in a NC-3 Neighborhood Commercial, Moderate-Scale Zoning District.

BASIS FOR RECOMMENDATION

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 and Resolutions No. 16539 and No. 18523 supplementing the 1996 WTS Guidelines.

- The project site is considered a Location Preference 2 (Co-location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines.
- Health and safety aspects of all wireless projects are reviewed under the Department of Public Health and the Department of Building Inspections.
- The expected RF emissions fall well within the limits established by the FCC.
- Based on propagation maps provided by AT&T Mobility, the project will provide coverage in an area that currently experiences several gaps in coverage and capacity.
- Based on the analysis provided by AT&T Mobility, the project will provide additional capacity in an area that currently experiences insufficient service during periods of high data usage.
- Based on independent third-party evaluation, the maps, data, and conclusions about service coverage and capacity provided by AT&T Mobility are accurate.
- The proposed antennas will be minimally visible when viewed from adjacent rights-of-way and points further away so as to avoid intrusion into public vistas, avoid disruption of the architectural integrity of building and insure harmony with neighborhood character.
- The proposed project has been reviewed by staff and found to be categorically exempt from further environmental review. The proposed antenna project is categorically exempt from further environmental review pursuant to the Class 3 exemptions of California Environmental Quality Act.
- A Five Year Plan with approximate longitudinal and latitudinal coordinates of proposed locations, including the subject site, was submitted.
- All required public notifications were conducted in compliance with the City's code and policies.

RECOMMENDATION:	Approval with Conditions
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| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Executive Summary <input checked="" type="checkbox"/> Draft Motion <input checked="" type="checkbox"/> Zoning District Map <input type="checkbox"/> Height & Bulk Map <input checked="" type="checkbox"/> Parcel Map <input checked="" type="checkbox"/> Sanborn Map <input checked="" type="checkbox"/> Aerial Photo <input checked="" type="checkbox"/> Context Photos <input checked="" type="checkbox"/> Site Photos | <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project sponsor submittal Drawings: <u>Proposed Project</u> <input checked="" type="checkbox"/> Check for legibility <input checked="" type="checkbox"/> Photo Simulations <input checked="" type="checkbox"/> Coverage Maps <input checked="" type="checkbox"/> RF Report <input checked="" type="checkbox"/> DPH Approval <input checked="" type="checkbox"/> Community Outreach Report <input checked="" type="checkbox"/> Independent Evaluation |
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Exhibits above marked with an "X" are included in this packet _____ms _____ Planner's Initials



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. XXXX

HEARING DATE: JANUARY 10, 2013

Date: January 3, 2013
Case No.: **2012.0505C**
Project Address: **1101 Fillmore St**
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ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTION 303(c) AND 712.83 TO INSTALL A WIRELESS TELECOMMUNICATIONS SERVICES FACILITY CONSISTING OF ONE PANEL ANTENNA CONCEALED WITHIN A RADOME AND ASSOCIATED EQUIPMENT LOCATED ON THE ROOFTOP OF AN EXISTING RESIDENTIAL AND COMMERCIAL BUILDING AS PART OF AT&T MOBILITY’S WIRELESS TELECOMMUNICATIONS NETWORK WITHIN A NC-3 (NEIGHBORHOOD COMMERCIAL, MODERATE-SCALE) ZONING DISTRICT, AND A 50-X HEIGHT AND BULK DISTRICT.

PREAMBLE

On April 26, 2012, AT&T Mobility (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for Conditional Use Authorization on the property at 1101 Fillmore Street, Lot 002 in Assessor's Block 0755, (hereinafter "Project Site") to install a wireless telecommunications service facility consisting of one panel antenna concealed within a radome and associated equipment located on the roof of an existing residential and commercial building as part of AT&T’s wireless telecommunications network within an NC-3 (Neighborhood Commercial, Moderate-Scale) Zoning District and a 50-X Height and Bulk District.

The Project is exempt from the California Environmental Quality Act (“CEQA”) as a Class 3 Categorical Exemption (Section 15303 of the California Environmental Quality Act). The Planning 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 January 10, 2013, the San Francisco Planning 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. 2012.0505C, 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 building is located on Assessor's Block 0755, Lot 002 on the northwest corner of Fillmore Street and Golden Gate Avenue. This site is within a NC-3 (Neighborhood Commercial, Moderate Scale) Zoning District, and a 50-X Height and Bulk District. The Project Site contains a four-story residential and commercial building. The subject building is on a corner lot with approximately 137 feet of frontage on Fillmore Street and 70 feet of frontage on Golden Gate Avenue. There are currently other macro antenna sites operated by AT&T and two other carriers on the rooftop.
3. **Surrounding Properties and Neighborhood.** The Project Site is located in the Western Addition neighborhood. Nearby uses along Fillmore Street consist of a mix of commercial and residential buildings with housing over neighborhood-serving commercial/retail uses, a fast food chain, the Northern District Police Station, a church, and a park.
4. **Project Description.** The proposal is to install a Wireless Telecommunications Services ("WTS") facility consisting of one additional panel antenna concealed within a radome and associated equipment located on the roof of the subject building as part of AT&T Mobility's Wi-Fi telecommunications network. The antennas are proposed on a Location Preference 2 Site (Co-location Site) according to the WTS Siting Guidelines. The proposed antenna would measure approximately 20" high by 7" wide by 3" thick. The antenna would be mounted on the roof of the subject building inside a radio frequency transparent radome. The maximum height of the antenna is 53' 9" above grade. The associated equipment cabinet would also be located on the rooftop and would not be visible from the public right of way. The facility is proposed on a Location Preference 2 Co-location Site (Preferred Location).

5. **Past History and Actions.** The Planning Commission adopted the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines (“Guidelines”) for the installation of wireless telecommunications facilities in 1996. 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 and again in 2012, requiring community outreach, notification, and detailed information about the facilities to be installed.

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.

Section 8.1 of the WTS Siting Guidelines further stipulates that the Planning Commission will not approve WTS applications for Preference 5 or below Location Sites unless the application describes (a) what publicly-used building, co-location site or other Preferred Location Sites are located within the geographic service area; (b) what good faith efforts and measures were taken to secure these more Preferred Locations, (c) explains why such efforts were unsuccessful; and (d) demonstrates that the location for the site is essential to meet demands in the geographic service area and the Applicant’s citywide networks.

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, an independent evaluation verifying coverage and capacity, 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 January 10, 2013, 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 Section 712.83 to install a wireless telecommunications facility consisting of one additional

panel antenna concealed within a radome and associated equipment on the roof on an existing residential and commercial building as part of AT&T's Wi-Fi network.

6. **Location Preference.** The *WTS Facilities Siting Guidelines* identify different types of zoning districts and building uses for the siting of wireless telecommunications facilities. Under the *Guidelines*, the Project is a Location Preference Number 2 Colocation Site as the Project Site is located in an NC-3 District on the top of an existing residential and commercial building with existing WTS installations from Sprint and Metro PCS.
7. **Radio Waves Range.** The Project Sponsor has stated that the proposed wireless network is designed to address network congestion issues and will ease congestion by offloading data traffic from the voice network onto the Wi-Fi network. The network will offload data by radio waves operating in the 2,400 – 5,000 Megahertz (MHZ) bands, which are regulated by the Federal Communications Commission (FCC) and 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.** The proposed project was referred to the Department of Public Health (DPH) for emissions exposure analysis. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There are similar antennas operated by Sprint and MetroPCS at the site, but no other documented antennas within 100 feet of the site. AT&T Mobility proposes to install one new antenna for WiFi service. The antennas will be mounted at a height of approximately 48 feet above the ground. The estimated ambient RF field from the proposed AT&T Mobility transmitters at ground level is calculated to be 0.0012 mW/sq. cm., which is 0.12% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 4 inches 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 the area directly in front of the antenna while it is in operation.
10. **Coverage and Capacity Verification.** The maps, data, and conclusion provided by AT&T to demonstrate need for coverage and capacity have been determined by Hammett & Edison, and engineering consultant and independent third party to accurately represent the carrier's present and post-installation conclusions.
11. **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.
12. **Community Outreach.** Per the *Guidelines*, the Project Sponsor held a Community Outreach Meeting for the proposed project. The meeting was held at 6:00 p.m. on September 20, 2012 at the

West Bay Conference Center located at 1290 Fillmore Street. Two members of the community attended the meeting. Questions were asked regarding the facility including interference with home Wi-Fi network, details about the radiofrequency exposure, and whether the Wi-Fi is for public use.

13. **Five-year plan:** Per the *Guidelines*, the Project Sponsor submitted an updated five-year plan, as required, in October 2012.

14. **Public Comment.** As of January 3, 2012, the Department has received no public comment on the proposed project.

15. **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 Section 712.83, a Conditional Use authorization is required for the installation of Commercial Wireless Transmitting, Receiving or Relay Facility.

16. **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 1101 Fillmore Street is generally desirable and compatible with the surrounding neighborhood because the Project will not conflict with the existing uses of the property and will be designed to be compatible with the surrounding nature of the vicinity. 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 buildings, insure harmony with the existing neighborhood character and public safety. The Project has been reviewed and determined to not cause the removal or alteration of any significant architectural features of the subject building.

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 capacity). San Francisco's unique coverage issues are due to topography and building heights. The hills and buildings disrupt lines of site between WTS base stations. Thus, telecommunication carriers continue to 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 provide proper data and voice capacity. It is necessary for San Francisco, as a leader in technology, to have adequate capacity.

The proposed project at 1101 Fillmore Street is necessary in order to achieve sufficient street and in-building mobile phone coverage and data capacity. Recent drive tests in the subject area conducted by the AT&T Mobility Radio Frequency Engineering Team provide that the subject property is the most viable location, based on factors including quality of coverage and aesthetics.

- 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 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.

- 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 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 installation 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 antenna is concealed from nearby public rights-of-way inside a radiofrequency transparent radome that is setback three feet from the parapet of the building. When viewed from nearby public rights-of-way, the radome would appear to be part of the existing building. The antenna and associated equipment would not be visible from most vantage points. The project will not affect 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 Project is consistent with the purpose of Neighborhood district in that the intended use is located on an existing building approximately 50 feet tall with existing antenna sites and the proposed antenna is set back from the street frontage.

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

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 sustainably supported by the City’s public infrastructure systems.

The Project will improve AT&T Mobility's coverage and capacity along the Fillmore Street Neighborhood Commercial corridor and surrounding residential, commercial and recreational areas along a primary transportation route in San Francisco.

URBAN DESIGN

HUMAN NEEDS

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 antenna because it is located on the rooftop of the building within a radome that is designed and painted to appear as part of the existing building. The stealthed antennas would only be minimally visible from most vantage points in the nearby public rights-of-way.

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.

VISITOR TRADE

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 AT&T Mobility 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.

18. **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 have no adverse impact on 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 significantly 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 subject site is not a landmark building and is considered a Potential Historic Resource. The proposed project will not be visible from most vantage points, and minimally visible and concealed within a radome when viewed from the public right of way and will not impact the historic resource.

- 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.

19. 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.
20. 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 712.83 and 303 to install up one Wi-Fi panel antenna and associated equipment cabinets at the Project Site and as part of a wireless transmission network operated by AT&T Mobility on a Location Preference 2 (Preferred Location – Co-location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines, within a NC-3 (Neighborhood Commercial – Moderate-Scale) and a 50-X Height and Bulk District and subject to the conditions of approval attached hereto as **Exhibit A**.

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

I hereby certify that the foregoing Motion was adopted by the Planning Commission on **January 10, 2013**.

JONAS P. IONIN
Acting Commission Secretary

AYES
NAYS:

ABSENT:

ADOPTED: January 10, 2013

EXHIBIT A

AUTHORIZATION

This authorization is for a Conditional Use Authorization under Planning Code Sections 712.83 and 303 to install a wireless telecommunications services facility consisting of up one panel antenna with related equipment, a Location Preference 2 (Co-location Site) according to the Wireless Telecommunications Services (WTS) Siting Guidelines, as part of AT&T Mobility's wireless telecommunications network within a NC-3 Neighborhood Commercial (Moderate-Scale) District and a 50-X Height and Bulk District.

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 **January 10, 2013** 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 415-575-9078, www.sf-planning.org.

4. **Screening - WTS.** To the extent necessary to ensure compliance with adopted FCC regulations regarding human exposure to RF emissions, and upon the recommendation of the Zoning Administrator, the Project Sponsor shall:
 - 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 effects;
 - g. Rooftop installations shall be setback such that back up facilities are not viewed from the street;
 - h. Antennas 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 415-575-9078, 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 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 implementation of the conditions of approval contained in this authorization, including costs incurred by this Department, the Department of Public Health, the Department of Technology, Office of the City Attorney, or any other appropriate City Department or agency. 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 antennas 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.

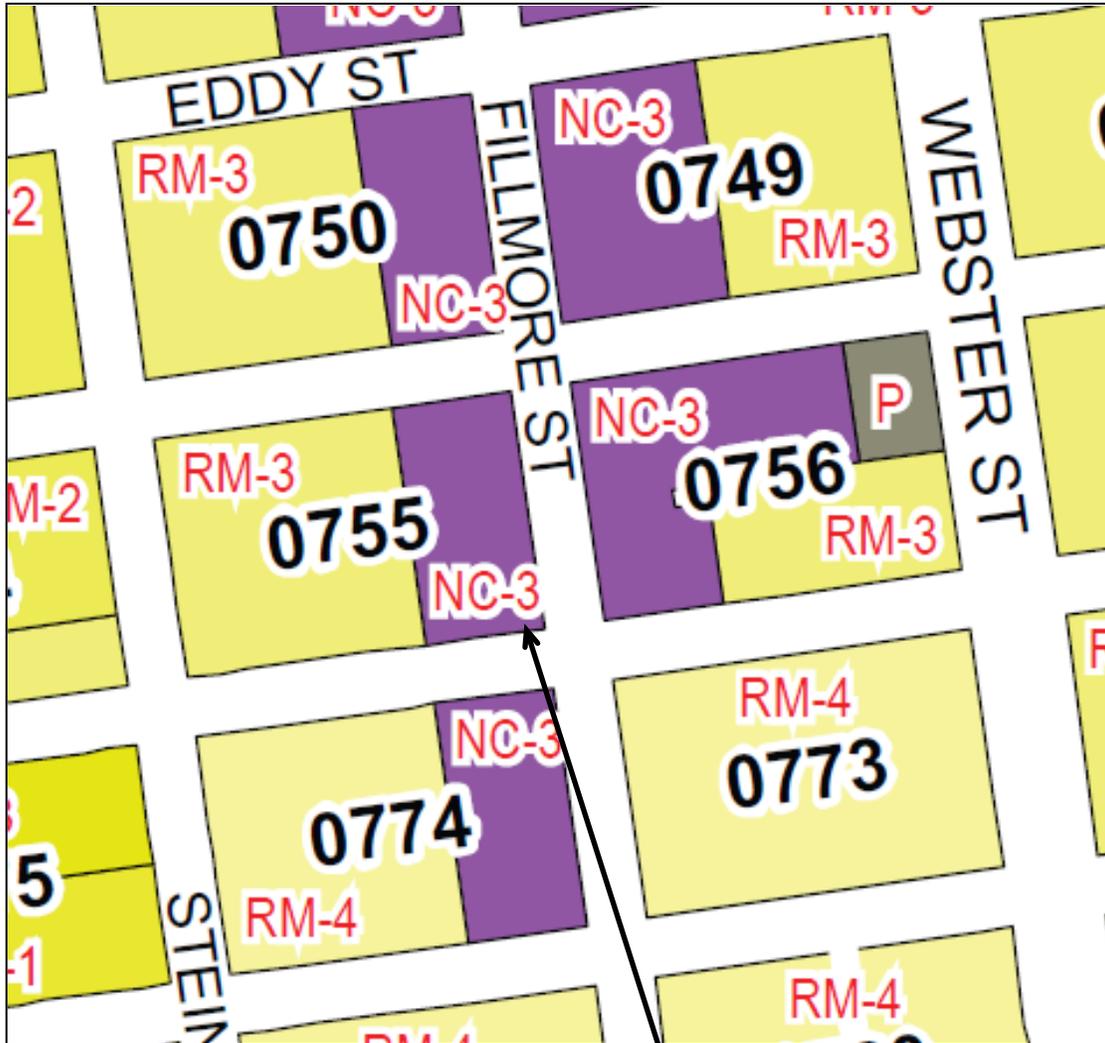
18. **Transfer of Operation – WTS.** Any carrier/provider authorized by the Zoning Administrator or by the Planning Commission to operate a specific WTS installation may assign the operation of the facility to another carrier licensed by the FCC for that radio frequency provided that such transfer is 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>

Zoning Map



SUBJECT PROPERTY

Case Number 2012.0505C
AT&T Mobility WTS Facility
1101 Fillmore Street

Aerial Photo



SUBJECT PROPERTY



Case Number 2012.0505C
AT&T Mobility WTS Facility
1101 Fillmore Street

Parcel Map

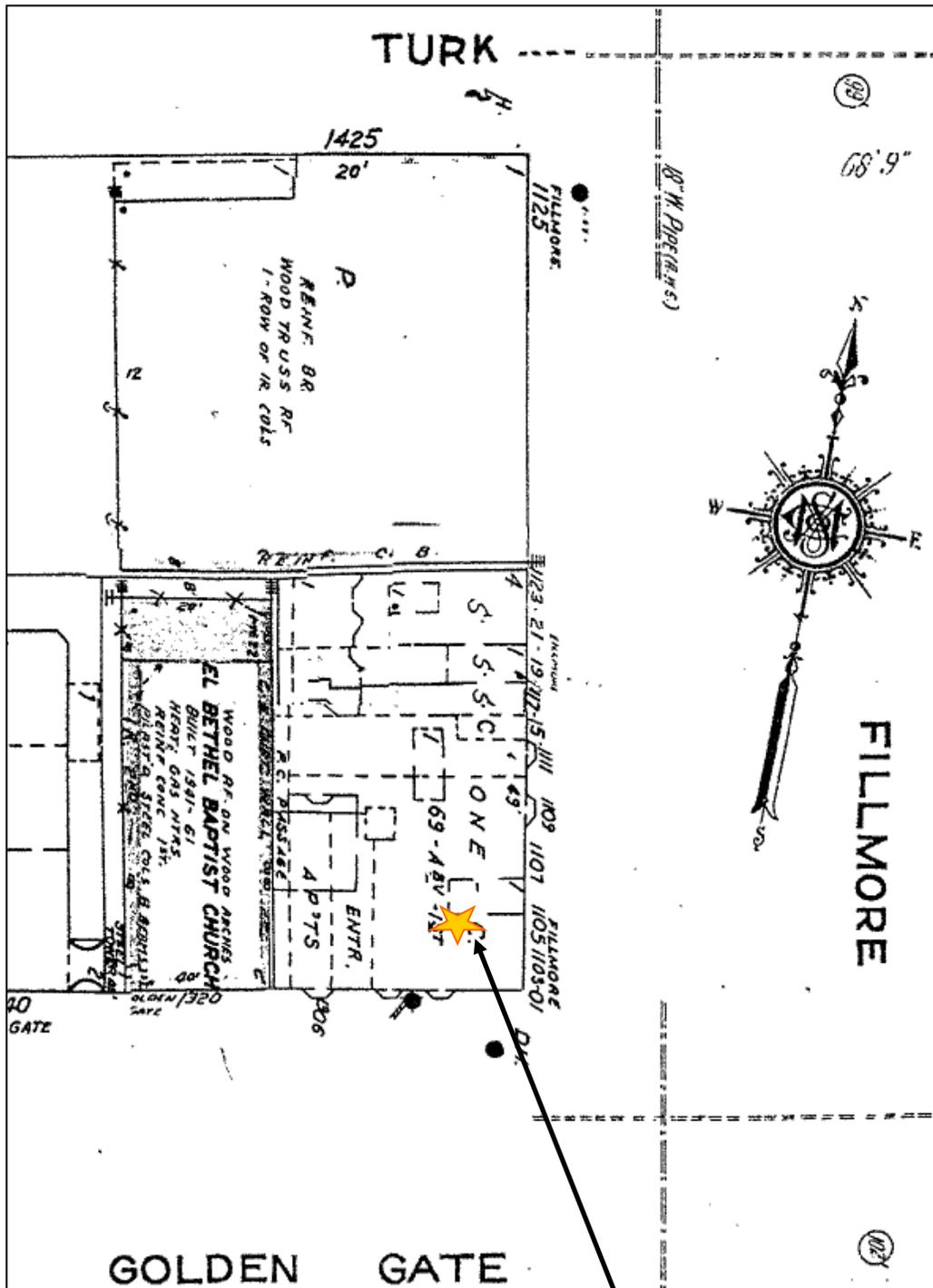


SUBJECT PROPERTY



Case Number 2012.0505C
AT&T Mobility WTS Facility
1101 Fillmore Street

Sanborn Map*

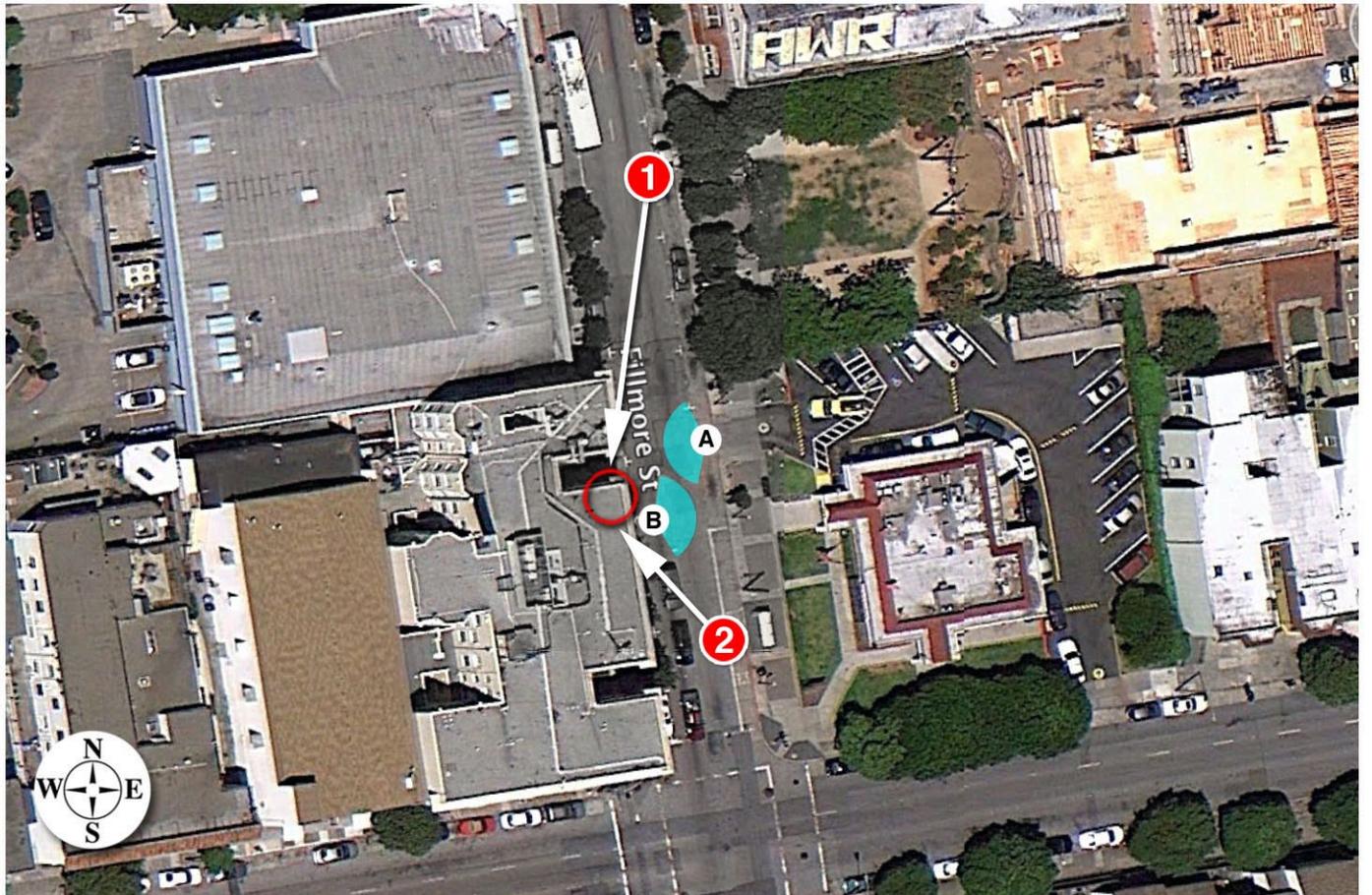


SUBJECT PROPERTY

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

Case Number 2012.0505C
 AT&T Mobility WTS Facility
 1101 Fillmore Street

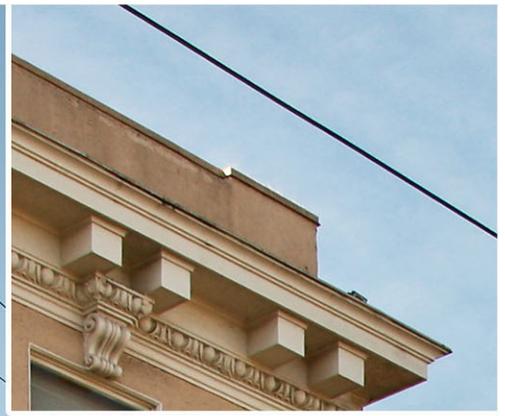






proposed AT&T antenna





Existing



proposed antenna



Proposed

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a wireless telecommunications carrier, to evaluate with respect to prevailing standards limiting human exposure to radio frequency energy that carrier's proposal for a standard configuration of Wi-Fi antennas to be installed on the outside of certain buildings in San Francisco.

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:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5–80 GHz	5.00 mW/cm ²	1.00 mW/cm ²
Wi-Fi	2.4–5	5.00	1.00
BRS (Broadband Radio)	2.6	5.00	1.00
AWS (Advanced Wireless)	2.1	5.00	1.00
PCS (Personal Communication)	1.9	5.00	1.00
Cellular	870 MHz	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

Checklist

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

Not applicable for this generic compliance study. Siting is proposed on outside faces or on short poles above the roof of buildings, mounted at least 21 feet above ground and oriented away from the buildings. Page 4 shows a proposed site that, based in part on data supplied by AT&T, meets these criteria.

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

Not applicable for this generic compliance study.

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

Not applicable for this generic compliance study.

**AT&T Mobility • Wi-Fi Network Antennas
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.

AT&T proposes to mount individual BelAir Model BNCKG0086 directional panel antennas on outside faces or on short poles above the roof of buildings at various locations in San Francisco, to provide Wi-Fi service to surrounding areas on 2.4 and 5 GHz frequencies.

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

The maximum power rating of the AT&T transmitters is 0.4 watts, although they 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.

The maximum effective radiated power from the face of the antennas would be 15 watts (7.5 watts each in the 2.4 and 5 GHz Wi-Fi bands), with lower power in other directions.

7. 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 would be mounted on buildings, as described in Item 1 above. It is anticipated that direct access to the antennas may be possible in some instances for persons from inside the buildings.

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 level from the proposed AT&T operation by itself is calculated to be 0.0012 mW/cm², which is 0.12% of the applicable public exposure limit. The applicable FCC exposure limit is reached only within 4 inches of the antennas.

9. Describe proposed signage at site.

Due to their low power of operation, the AT&T antennas can be considered intrinsically compliant with the FCC guidelines. Therefore, no mitigation measures are necessary to comply with those guidelines, although the City of San Francisco has requested the posting of explanatory signs at all antennas.

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco, California**

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, 2013. 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 the undersigned's professional opinion that the proposed AT&T Mobility Wi-Fi antennas on the identified building in San Francisco will, as proposed, comply with the prevailing standards limiting human exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. No mitigation measures are recommended at this site.



William F. Hammett

William F. Hammett, P.E.
707/996-5200

November 29, 2011

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco • California**

Site Meeting RF Exposure Siting Criteria



Based on drawings by HMM Design Group, dated July 18, 2011



Review of Cellular Antenna Site Proposals

Project Sponsor : AT&T Wireless **Planner:** Michelle Stahlhut
RF Engineer Consultant: Hammett and Edison **Phone Number:** (707) 996-5200
Project Address/Location: 1101 Fillmore St
Site ID: 177 **SiteNo.:** CNU5460

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: 15
- 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: 0.4 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: 15 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 10.4.1d)
- X 8. Report estimated ambient radio frequency fields for the proposed site (identify the three-dimensional perimeter where the FCC standards are exceeded.) (WTS-FSG, Section 10.5) State FCC standard utilized and power density exposure level (i.e. 1986 NCRP, 200 μw/cm²)
 Maximum RF Exposure: 0.0012 mW/cm² Maximum RF Exposure Percent: 0.12
- 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: 1
 Occupational_Exclusion_Area Occupational Exclusion In Feet: 0

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 6 antennas operated by AT&T Wireless installed on the roof top of the building at 1101 Fillmore Street. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There were observed similar antennas operated by Sprint (6) and MetroPCS (3) but no other antennas within 100 feet of this site. AT&T Wireless proposes to install 1 new antenna for WiFi service. The antenna will be mounted at a height of 48 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.0012 mW/sq cm., which is 0.12 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 4 inches 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 the area directly in front of the antenna while it is 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: 12/20/2011

Patrick Fosdahl

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

**1101 Fillmore City Hot Zone
San Francisco, CA**



Legend

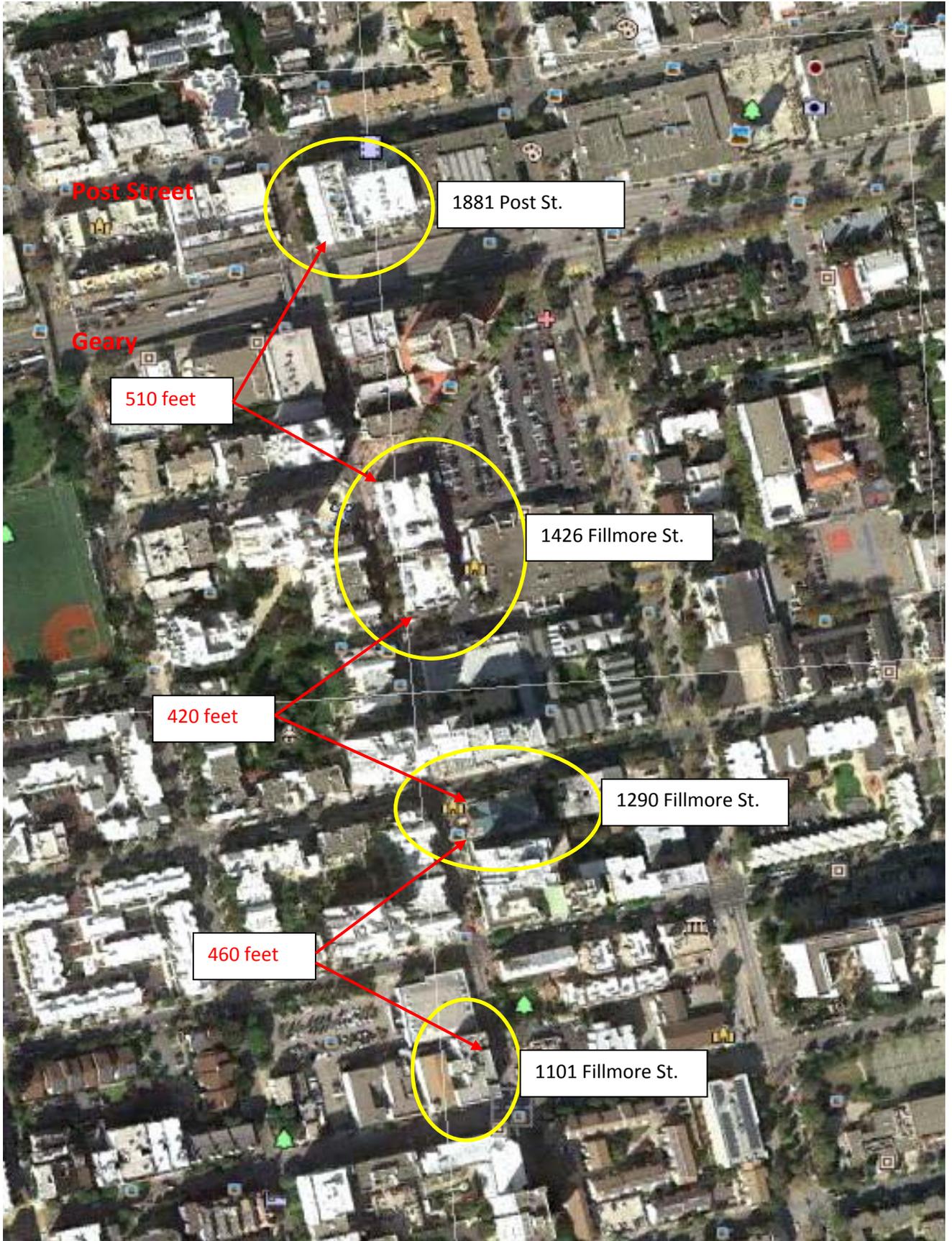
**1101 Fillmore City Hot Zone
San Francisco, CA**



Legend

-  Wi-Fi Coverage

Proposed AT&T WiFi Sites



Notice of Pre-Application Meeting

August 29, 2012

Date

Dear Neighbor:

You are invited to a neighborhood Pre-Application meeting to review and discuss the development proposal at 1101 Fillmore St., cross street(s) Fillmore/Golden Gate (Block/Lot#: 0755/002; Zoning: NC-3), in accordance with the San Francisco Planning Department's Pre-Application procedures. The Pre-Application meeting is intended as a way for the Project Sponsor(s) to discuss the project and review the proposed plans with adjacent neighbors and neighborhood organizations before the submittal of an application to the City. This provides neighbors an opportunity to raise questions and discuss any concerns about the impacts of the project before it is submitted for the Planning Department's review. Once a Building Permit has been submitted to the City, you may track its status at www.sfgov.org/dbi.

The Pre-Application process is only required for projects subject to Planning Code Section 311 or 312 Notification. It serves as the first step in the process prior to building permit application or entitlement submittal. Those contacted as a result of the Pre-Application process will also receive a formal entitlement notice or 311 or 312 notification when the project is submitted and reviewed by Planning Department staff.

A Pre-Application meeting is required because this project includes (check all that apply):

- New Construction;
- Any vertical addition of 7 feet or more;
- Any horizontal addition of 10 feet or more;
- Decks over 10 feet above grade or within the required rear yard;
- All Formula Retail uses subject to a Conditional Use Authorization.

The development proposal is to: Installation of a WiFi antenna to the building roof to reduce AT&T network congestion that results in customer calls being dropped.

Existing # of dwelling units: _____ Proposed: No Change Permitted: _____

Existing bldg square footage: _____ Proposed: No Change Permitted: _____

Existing # of stories: _____ Proposed: No Change Permitted: _____

Existing bldg height: _____ Proposed: No Change Permitted: _____

Existing bldg depth: _____ Proposed: No Change Permitted: _____

MEETING INFORMATION:

Property Owner(s) name(s): Golden Gate & Fillmore Associates, LP

Project Sponsor(s): David Hiatt, On Air, LLC

Contact information (email/phone): dhiatt_onair@yahoo.com, 408-872-4730

Meeting Address*: 1290 Fillmore Street

Date of meeting: September 20, 2012

Time of meeting**: 6:00 PM

*The meeting should be conducted at the project site or within a one-mile radius, unless the Project Sponsor has requested a Department Facilitated Pre-Application Meeting, in which case the meeting will be held at the Planning Department offices, at 1650 Mission Street, Suite 400.

**Weeknight meetings shall occur between 6:00 p.m. - 9:00 p.m. Weekend meetings shall be between 10:00 a.m. - 9:00 p.m., unless the Project Sponsor has selected a Department Facilitated Pre-Application Meeting.

If you have any questions about the San Francisco Planning Code, Residential Design Guidelines, or general development process in the City, please call the Public Information Center at 415-558-6378, or contact the Planning Department via email at pic@sfgov.org. You may also find information about the San Francisco Planning Department and on-going planning efforts at www.sfplanning.org.

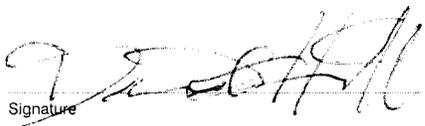
Affidavit of Conducting a Pre-Application Meeting, Sign-in Sheet and Issues/Responses submittal

I, David Hiatt, do hereby declare as follows:

1. I have conducted a Pre-Application Meeting for the proposed new construction or alteration prior to submitting any entitlement (Building Permit, Variance, Conditional Use, etc.) in accordance with Planning Commission Pre-Application Policy.
2. The meeting was conducted at West Bay Conf Ctr. 1290 Fillmore St (location/address)
on 9/20/2012 (date) from 6 - 7 PM (time).
3. I have included the mailing list, meeting initiation, sign-in sheet, issue/response summary, and reduced plans with the entitlement Application. I understand that I am responsible for the accuracy of this information and that erroneous information may lead to suspension or revocation of the permit.
4. I have prepared these materials in good faith and to the best of my ability.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

EXECUTED ON THIS DAY, September 20th, 2012 IN SAN FRANCISCO.



 Signature

David Hiatt

Name (type or print)

Agent

On Air, LLC - Site Aquisition

Relationship to Project (e.g. Owner, Agent)

(if Agent, give business name & profession)

1101 Fillmore Street

Project Address

Summary of discussion from the Pre-Application Meeting

Meeting Date: September 20, 2012

Meeting Time: 6:00 PM

Meeting Address: 1290 Fillmore Street

Project Address: 1101 Fillmore Street

Property Owner Name: Golden Gate and Fillmore Association, LLC

Project Sponsor/Representative: David Hiatt - On Air, LLC

Please summarize the questions/comments and your response from the Pre-Application meeting in the space below. Please state if/how the project has been modified in response to any concerns.

Question/Concern #1 by (name of concerned neighbor/neighborhood group): Connectivity to Wi-Fi. Will the new site impact the Wi-Fi modem in my house

Project Sponsor Response: No there won't be an impact because the antenna is very directional. This site is focused down Fillmore toward Geary, not at your house.

Question/Concern #2 Question to Dave - What is the EMF reading on a site like this. Is the combined EMF create an exponential EMF power

Project Sponsor Response: The power does increase with the addition of sites but the power of this site is extremely low. The site will not exceed FCC limits

Question/Concern #3 What will the EMF reading be in my apartment, we have an EMF meter and have turned off our microwave oven.

Project Sponsor Response: The site will be so low powered it probably won't be picked up by the meter in your apartment.

Question/Concern #4 Is the Wi-Fi for public use?

Project Sponsor Response: No, this Wi-Fi is provided for AT+T customers.



HAMMETT & EDISON, INC.
 CONSULTING ENGINEERS
 BROADCAST & WIRELESS

WILLIAM F. HAMMETT, P.E.
 DANE E. ERICKSEN, P.E.
 STANLEY SALEK, P.E.
 ROBERT P. SMITH, JR.
 RAJAT MATHUR, P.E.
 KENT A. SWISHER
 IVETTA PETUKH
 ANDREA L. BRIGHT
 KHOA M. PHAN

BY E-MAIL DHIATT_ONAIR@YAHOO.COM

April 17, 2012

Mr. David Hiatt
 On Air, LLC
 465 First Street West, Suite 101
 Sonoma, California 95476

ROBERT L. HAMMETT, P.E.
 1920-2002
 EDWARD EDISON, P.E.
 1920-2009

Dear Mr. Hiatt:

As you requested, we have reviewed the proposal by AT&T to install a new WiFi base station at 1101 Fillmore Street in San Francisco (Site No. CNU5460). The San Francisco Planning Department includes among its submittal requirements the following

- C. Coverage & Capacity Data Evaluation;
 An independent evaluation of maps, data, and conclusions about service coverage and capacity submitted by the wireless service provider to a professional engineer, licensed by the State of California and selected from a list provided by the Planning Department; wet stamped and signed.

Executive Summary

We concur with the maps, data, and conclusions provided by AT&T. The site as proposed will provide the coverage sought and will coordinate with the adjacent site proposed by AT&T.

Based on the information provided by AT&T, including its Service Area Definition Statement, its coverage maps, and drawings by HMH Design Group, dated July 18, 2011, that carrier is proposing to mount one BelAir Model BNCKG0086 directional panel antenna on the northeast corner of the roof parapet, in order to provide WiFi service in 2.4 and 5 GHz bands to its subscribers along Fillmore Street to the north. Operation in these bands is not individually licensed by the FCC, which means that they are open for use by any party, whether for short point-to-point data links, for wireless microphones and other localized use, and for Internet connectivity, as is observed at many coffee shops and other retail establishments. AT&T's proposed use is the latter, with phone, tablet, and computer connectivity to be provided to AT&T customers within the short service distance available at these microwave frequencies.

We appreciate the opportunity to perform this review. Please let us know if any questions arise on this matter.

Sincerely yours,

William F. Hammett, P.E.





at&t

4430 ROSEWOOD DRIVE
PLEASANTON, CA. 94588

SITE NUMBER: CNU5460 FILLMORE & GOLDEN GATE

SITE ADDRESS: 1101 FILLMORE ST. SAN FRANCISCO, CA

GENERAL NOTES

- ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
- 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 DISCONTINUED 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.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

REV.	DATE	REVISION
0	7/18/11	FOR REVIEW
1	12/08/11	ADD EMF REPORT
2	03/27/12	FOR PERMIT
3	07/02/12	PER CITY COMMENTS
4	08/21/12	ADD RADOME COVER
5	08/30/12	100%

HMH
DESIGN GROUP
5164 FRY ROAD
VACAVILLE, CA. 95687
PHONE: 707-448-8011
FAX: 448-8190

AT&T Project No.	1101 FILLMORE STREET
AT&T Site Name	FILLMORE & GOLDEN GATE
AT&T Site Address	1101 FILLMORE STREET SAN FRANCISCO, CA 94115
HMH Project No.	011083
Date	07/18/11
DRAWN	PAM
REVIEWED	

at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA. 94588

DIRECTIONS

Depart 4430 Rosewood Dr, Pleasanton, CA 94588 0.5 mi
 Turn RIGHT (North-West) onto Owens Dr 0.2 mi
 Turn RIGHT (North-East) onto Hacienda Dr 0.3 mi
 Take Ramp (RIGHT) onto I-580 27.5 mi I-580/Oakland
 Take Ramp (LEFT) onto I-80 0.9 mi I-80/San Francisco
 Take Ramp (RIGHT) onto I-80 7.0 mi
 Turn RIGHT onto Ramp 0.1 mi Ninth Street/Civic Center
 Keep RIGHT to stay on Ramp 87 yds 9th St/Civic Ctr/Fell St/Golden Gate
 Bear LEFT (South-West) onto Harrison St 0.1 mi
 Turn RIGHT (North-West) onto 9th St 0.5 mi PS
 Road name changes to Hayes St 0.8 mi
 Turn RIGHT (North) onto Fillmore St 0.3 mi

PROJECT INFORMATION

SCOPE OF WORK: INSTALL WI-FI ANTENNAS AT THE LOCATION SHOWN ON THESE PLANS INSTALL RELATED WI-FI EQUIPMENT WITHIN EXISTING AT&T EQUIPMENT AREAS IN THE EXISTING AT&T BASEMENT EQUIPMENT ROOM.

SITE ADDRESS: 11101 FILLMORE STREET
SAN FRANCISCO, CALIFORNIA
SAN FRANCISCO COUNTY

PROPERTY OWNER: GOLDEN GATE AND FILLMORE ASSOCIATES, LP
1717 POWELL STREET, SUITE 300
SAN FRANCISCO, CA. 94133

CONTACT PERSON: CHRIS FOWLER
(650) 888-0809

APPLICANT: AT&T WIRELESS SERVICES, INC.
4430 ROSEWOOD DRIVE BLDG. 3, 6th FLOOR
PLEASANTON, CA 94588

JURISDICTION: CITY OF SAN FRANCISCO
A.P.N.: 0755/022
CONST. TYPE: I, SPRINKLERED

FIRE DEPT. PLAN CHECK NOTE
THESE PLANS COMPLY WITH S.F.D. ADMINISTRATIVE BULLETINS
2.06 "SUBMITTAL REQUIREMENTS FOR CELLULAR ANTENNA SITES"

SITE QUALIFICATION PARTICIPANTS

	NAME	COMPANY	PHONE NUMBER
SAC	CHRIS FOWLER	ON-AIR LLC	(650) 888-0809
A/E	ART HOWLETT	HMH DESIGN GROUP LLC.	(707) 448-8011

DRAWING INDEX

REV.

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CNU0077 A-1	SITE PLAN	4
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CNU0077 A-4	ELEVATION	4
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VICINITY MAP



TITLE SHEET

T-1

2.06 Submittal Requirements for Cellular Antenna Sites

REFERENCE: 2010 SFBC, 2010 SFFC, 2010 SFMC and FCC OET Bulletin 65 (97-01)

1. Provide a description of work on the plans.
2. Plans shall include plan views and elevations showing all equipment locations and cable runs.
3. Plans shall include antenna cut-sheets and equipment list on a drawing sheet.
4. Include a copy of the signed and stamped RF report on a drawing sheet as a reference to identify the exclusion area required to prevent occupational exposures in excess of the FCC guidelines (47CFR1.1310 and FCC OET Bulletin 65 edition 97-01).
5. The RF report shall indicate whether or not the site under review is a part of a multiple transmitter site and shall show compliance with FCC 47CFR1.1307(b)(3), as amended - all transmitters shall not exceed 5% of the power density exposure limit.
6. Drawings shall reflect the striped/exclusion areas for workers per the above RF Report with a minimum radius of 1 foot.
7. Plans shall include a quantitative three-dimensional image of the RF levels from each antenna located near an egress point (e.g. penthouse stair, fire escape, roof walking paths, skylights, etc.).
8. "Notice to Workers" warning signage, as applicable per the above RF Report, shall be permanently mounted at the stairwell side of the roof-access door (ANSI C95.2-1982 (Reference [3]) – yellow or more durable color for outdoor longevity)
9. Camouflaged antennas shall have 4inch x 4inch signage permanently mounted to the exterior of the RF screen as provided below. The sign shall be weatherproof with contrasting background color and shall contain the yellow triangle around the antenna symbol (ANSI C95.2-1982 (Reference [3]) – yellow or more durable color for outdoor longevity). Signage location(s) and detail of the sign shall be included on the plans.
10. Cables/wiring shall not be allowed in exit enclosures, smoke-proof towers, elevator shafts, or in front of dry standpipes. 2010 CFC 1022.4 and 509.2
11. Antennas shall not be mounted closer than the exclusion zone plus 4 feet for installations near fire escapes, stair penthouse doors, exterior standpipe outlets, skylights, or other fire department operations consideration.
12. There is no guarantee that the fire department will not shut down the power to the site in an emergency situation although in order to reduce the site operator's possible loss of service the following information may be provided at the equipment room entrance:
 - Provide emergency shutdown procedure signage. The sign shall include the following:

1. Emergency 24 hour/7 day a week NOC / field technician telephone number for RF shut-down
 2. Cell site identification number
 3. Map to location of electrical main – electrical main shall be clearly identified with a permanent red label and white lettering.
 4. Map to location of battery cabinets and breakers – cabinets and breakers shall be clearly identified with a permanent red label and white lettering.
 5. Any other relevant information or procedures as required for the individual cellular site.
- 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. Multiple signs may need to be installed based upon the cellular site configuration.
 - A copy of the signage shall be included on a drawing sheet. See attached sample.

For further information see the FCC website: <http://www.fcc.gov/oet/rfsafety>

**EMERGENCY
SHUT DOWN**

**FOR IMMEDIATE SHUT DOWN OF ALL RADIO
FREQUENCY EMISSIONS OF THIS SITE,**

1) CALL CONTACT NUMBER AND GIVE SITE IDENTIFICATION NO.

CONTACT PHONE NUMBER: 1-XXX-XXX-XXXX

SITE IDENTIFICATION NUMBER: XXXXXXXX

2) DISCONNECT POWER AT MAIN SERVICE DISCONNECT:

Map and/or verbiage

3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:

Map and/or verbiage

Drawing notes:

1. 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:
 - a) Cell site equipment room door
 - b) Battery location within proximity of battery disconnect
 - c) FCC room within proximity of the fire alarm panel
 - d) Building's main electrical room within proximity of the main shutoff and/or at the cell site main electrical disconnect

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at&t
4430 ROSEWOOD DRIVE
PLEASANTON, CA 94588

**SF FD
CHECKLIST**

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a wireless telecommunications carrier, to evaluate with respect to prevailing standards limiting human exposure to radio frequency energy that carrier's proposal for a standard configuration of Wi-Fi antennas to be installed on the outside of certain buildings in San Francisco.

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:

Wireless Service	Frequency Band	Occupational Limit	Public Limit
Microwave (Point-to-Point)	5-80 GHz	5.00 mW/cm ²	1.00 mW/cm ²
Wi-Fi	2.4-5	5.00	1.00
BRS (Broadband Radio)	2.6	5.00	1.00
AWS (Advanced Wireless)	2.1	5.00	1.00
PCS (Personal Communication)	1.9	5.00	1.00
Cellular	870 MHz	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.35	0.47
[most restrictive frequency range]	30-300	1.00	0.20

Checklist

- The location of all existing antennas and facilities at site. Existing RF levels.
Not applicable for this generic compliance study. Siting is proposed on outside faces or on short poles above the roof of buildings, mounted at least 21 feet above ground and oriented away from the buildings. Page 4 shows a proposed site that, based in part on data supplied by AT&T, meets these criteria.
- The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas.
Not applicable for this generic compliance study.
- The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.
Not applicable for this generic compliance study.

**AT&T Mobility • Wi-Fi Network Antennas
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.

AT&T proposes to mount individual BelAir Model BNCKG0086 directional panel antennas on outside faces or on short poles above the roof of buildings at various locations in San Francisco, to provide Wi-Fi service to surrounding areas on 2.4 and 5 GHz frequencies.

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

The maximum power rating of the AT&T transmitters is 0.4 watts, although they 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.

The maximum effective radiated power from the face of the antennas would be 15 watts (7.5 watts each in the 2.4 and 5 GHz Wi-Fi bands), with lower power in other directions.

7. 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 would be mounted on buildings, as described in Item 1 above. It is anticipated that direct access to the antennas may be possible in some instances for persons from inside the buildings.

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 level from the proposed AT&T operation by itself is calculated to be 0.0012 mW/cm², which is 0.12% of the applicable public exposure limit. The applicable FCC exposure limit is reached only within 4 inches of the antennas.

9. Describe proposed signage at site.

Due to their low power of operation, the AT&T antennas can be considered intrinsically compliant with the FCC guidelines. Therefore, no mitigation measures are necessary to comply with these guidelines, although the City of San Francisco has requested the posting of explanatory signs at all antennas.

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco, California**

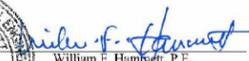
10. Statement of authorship.
The undersigned author of this statement is a qualified Professional Engineer, holding California Registrations Nos. E-13026 and M-20676, which expire on June 30, 2013. This work has been carried out under his direction, and all statements are true and correct of his own 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 the undersigned's professional opinion that the proposed AT&T Mobility Wi-Fi antennas on the identified building in San Francisco will, as proposed, comply with the prevailing standards limiting human exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. No mitigation measures are recommended at this site.

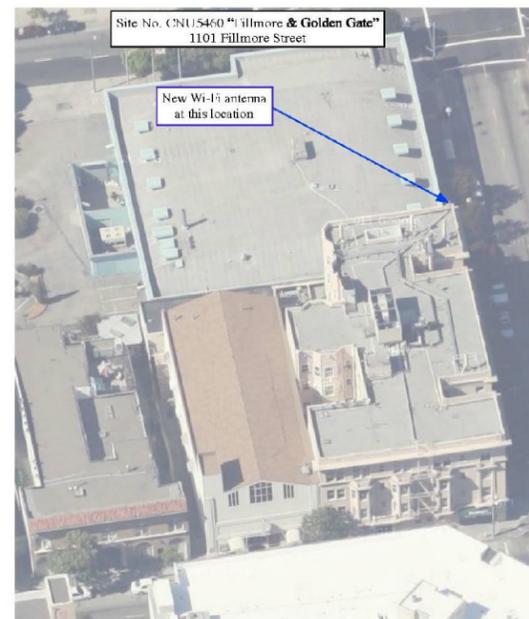
November 29, 2011




 William F. Hammett, P.E.
 707/996-5200

**AT&T Mobility • Wi-Fi Network Antennas
San Francisco • California**

Site Meeting RF Exposure Siting Criteria



Based on drawings by HMM Design Group, dated July 18, 2011

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HMH
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AT&T Project No.	
AT&T Site Name	FILLMORE & GOLDEN GATE
AT&T Site Address	1101 FILLMORE STREET SAN FRANCISCO, CA 94115
HMM Project No.	011083
Date	07/18/11
DRAWN	PAM
REVIEWED	

at&t


 4430 ROSEWOOD DRIVE
 PLEASANTON, CA 94588

**EMF
REPORT**

T-3

NOTICE



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

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

In accordance with Federal Communications Commission rules on radio frequency regulations 47 CFR 1.1307(b)

AT&T SITE NO.: CNU5460

CAUTION SIGN



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. Before working on antennas, notify owners and disable appropriate transmitters.
- Maintain minimum 3 feet clearance from all antennas. Do not stop in front of antennas. Use personal RF monitors while working near antennas.
- Never operate transmitters without shields during normal operation.
- Do not operate base station antennas in equipment rooms.

CAUTION SIGN

SIGNAGE MOUNTING NOTES:

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

CONCRETE: 1/4 TAPPER CONCRETE ANCHOR, 2 INCH MINIMUM EMBEDMENT
 METAL: #12 SHEET METAL SCREWS, 1 INCH MINIMUM EMBEDMENT
 WOOD: #12 ROUND HEAD WOOD SCREWS, 1-1/2 INCH MINIMUM EMBEDMENT
 BOLTING: 1/4 MACHINE SCREWS WITH LOCK WASHERS

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

EMERGENCY SHUT DOWN

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

CONTACT PHONE NUMBER:
1-XXX-XXX-XXXX

SITE IDENTIFICATION NUMBER:
CNU5460

LOCATION OF EQUIPMENT:
 ROOFTOP
 OTHER

THIS EQUIPMENT HAS BATTERY BACKUP:
 ROOFTOP
 OTHER

CAUTION SIGN

NOTICE TO WORKERS



RADIO FREQUENCY ANTENNAS ON THIS ROOF. PLEASE EXERCISE CAUTION AROUND ANTENNAS AND OBEY POSTED SIGNS AND/OR MARKINGS. FOR ACCESS TO RESTRICTED AREAS OR FOR FURTHER INFORMATION, PLEASE CALL 1-XXX-XXX-XXXX (AT&T SITE NUMBER)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

AVISO A TRABAJADORES

EXISTEN ANTENAS DE RADIOFRECUENCIA EN ESTE TECHO. POR FAVOR USE PRECAUCION ALREDEDOR DE LAS ANTENAS Y OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS INFORMACION, LLAME AL TELEFONO 1-XXX-XXX-XXXX (NUMERO DE SITIO xxxxxx)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.1310

工作人員注意

此屋宇房頂有射頻天線裝置
在天線範圍四周務請小心,並遵照各已張貼之指示及/或標識行事
如需進入禁區範圍或索取更多資料
請致電1-XXX-XXX-XXXX(此站區號:CNU5460)

依據FCC條例第47 CFR1.1310款執行

WARNING SIGN

CAUTION



BEYOND THIS POINT you are entering a controlled area where RF emissions may exceed the FCC Occupational Exposure Limits.

Obey all posted signs and site guidelines for working in an RF environment.

Ref: FCC 47CFR 1.1307(b)

CAUTION SIGN

SIGNAGE AND STRIPING INFORMATION

THE FOLLOWING INFORMATION IS A GUIDE LINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR 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.

THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS 1mWcm² AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T 5mWcm²

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

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

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

ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE AT&T CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLANE SITE AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNAS ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE AT&T'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 AT&T CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE AT&T 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 AT&T CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.

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DRAWN	PAM
REVIEWED	



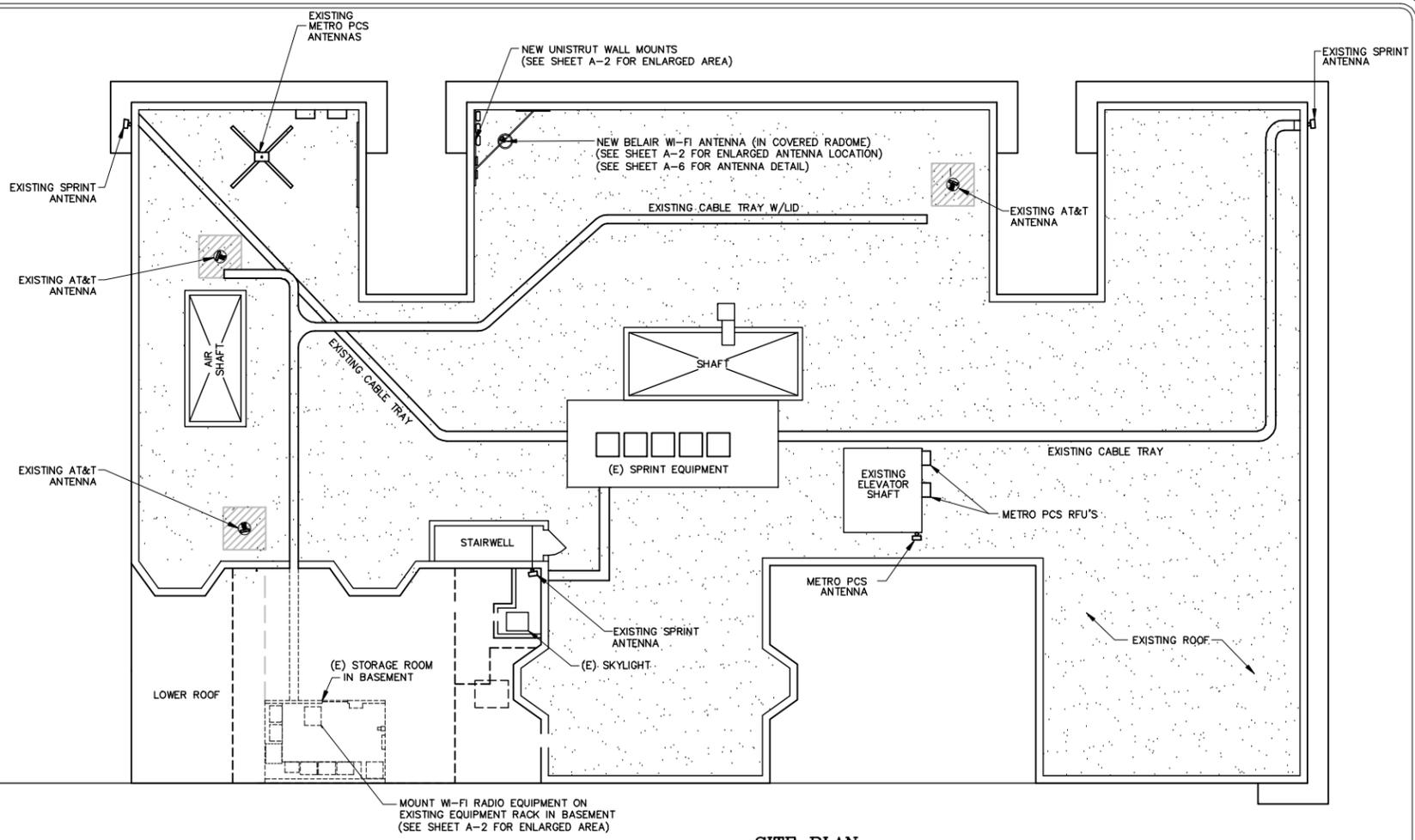
4430 ROSEWOOD DRIVE
PLEASANTON, CA. 94588

SIGNAGE



FILLMORE STREET

GOLDEN GATE AVENUE



SITE PLAN
SCALE: 1/8"=1'-0"
0' 8' 16' 24'

REV.	DATE	REVISION
0	7/18/11	FOR REVIEW
1	12/08/11	ADD EMF REPORT
2	03/27/12	FOR PERMIT
3	07/02/12	PER CITY COMMENTS
4	08/21/12	ADD RADOME COVER
5	08/30/12	100%

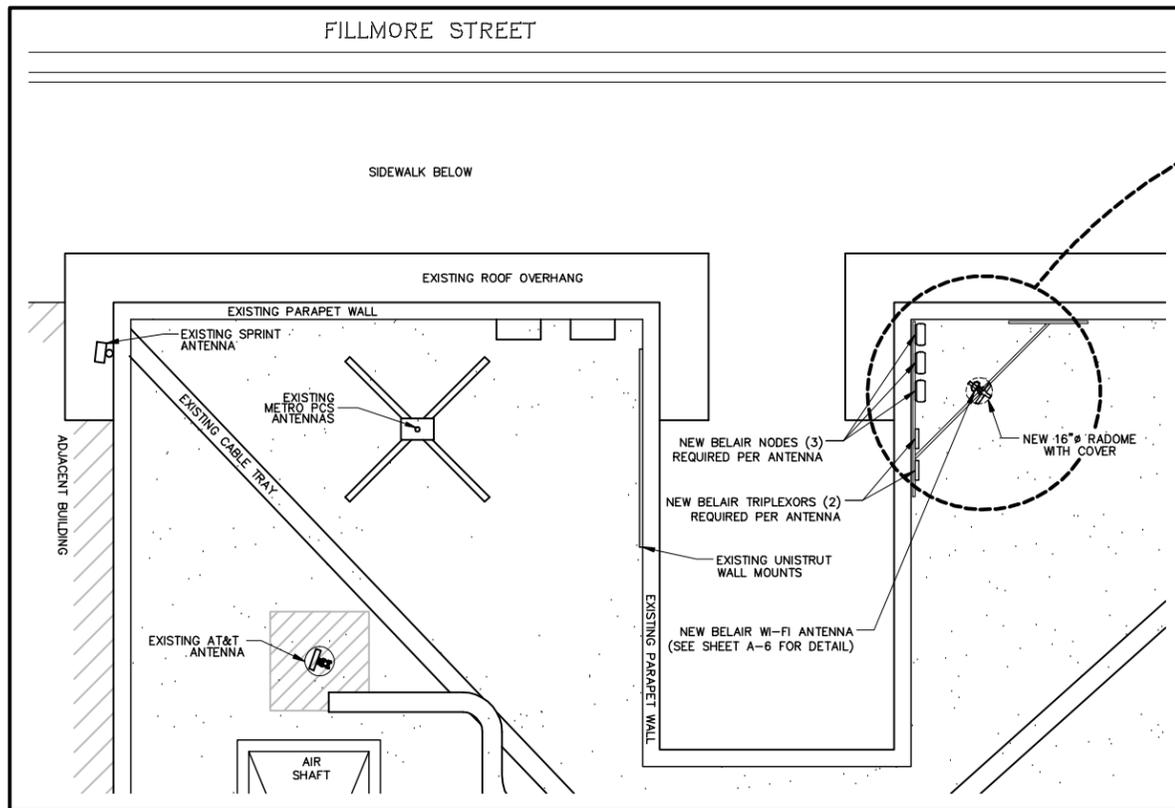
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AT&T Project No.	
AT&T Site Name	FILLMORE & GOLDEN GATE
AT&T Site Address	1101 FILLMORE STREET SAN FRANCISCO, CA 94115
HMH Project No.	011083
Date	07/18/11
DRAWN	PAM
REVIEWED	

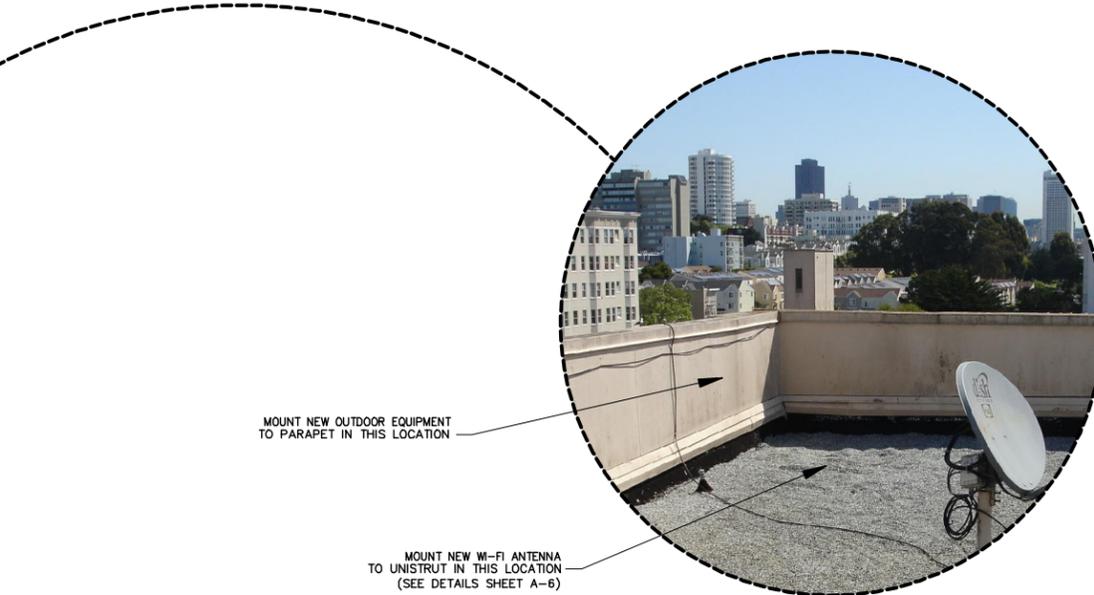


SITE PLAN

A-1



ENLARGED ANTENNA LOCATION
SCALE: 1/4"=1'-0"



MOUNT NEW OUTDOOR EQUIPMENT TO PARAPET IN THIS LOCATION

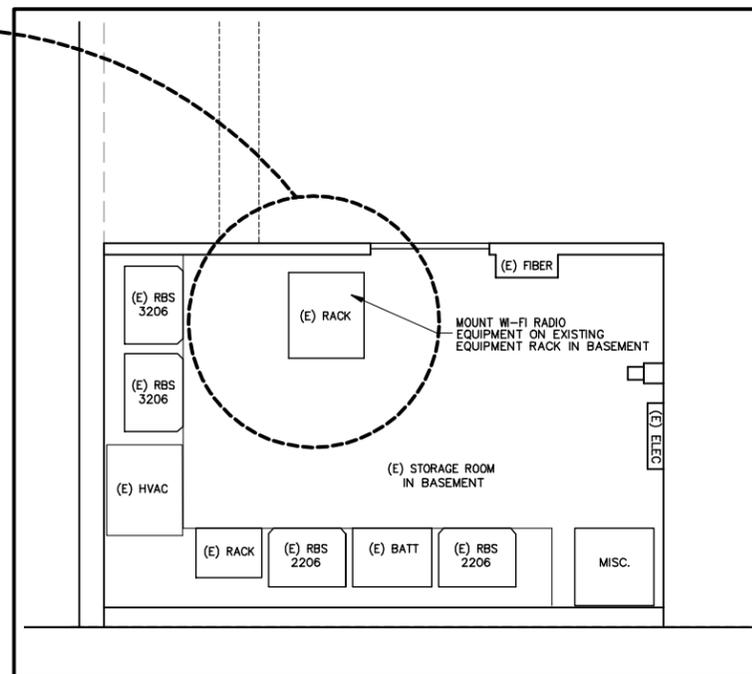
MOUNT NEW WI-FI ANTENNA TO UNISTRUT IN THIS LOCATION (SEE DETAILS SHEET A-6)

PROPOSED ANTENNA LOCATION
NOT TO SCALE

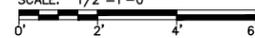


MOUNT WI-FI RADIO EQUIPMENT ON EXISTING EQUIPMENT RACK IN BASEMENT

EXISTING EQUIPMENT RACK
NOT TO SCALE



ENLARGED EQUIPMENT ROOM
SCALE: 1/2"=1'-0"



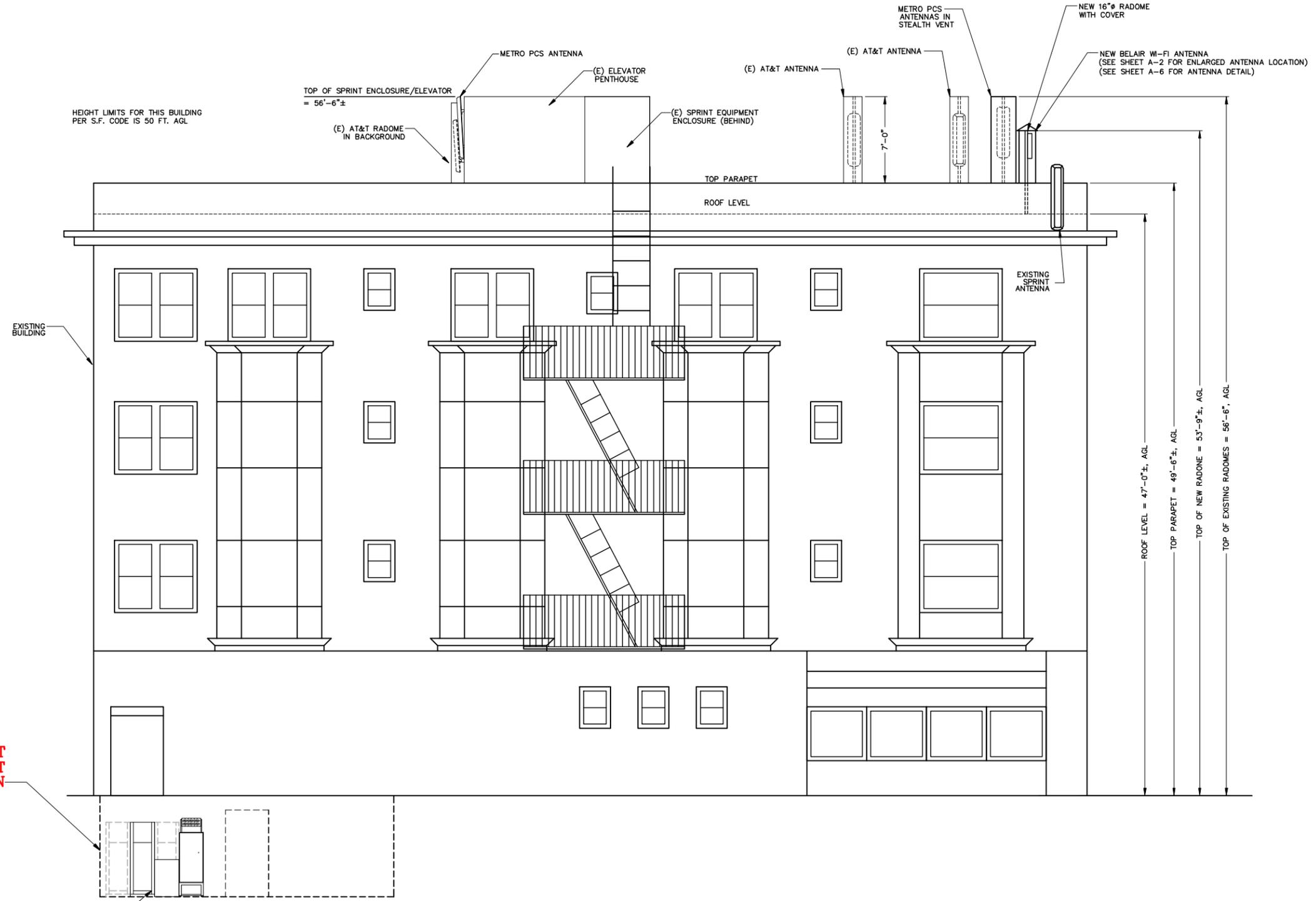
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EQUIPMENT & ANTENNA PLAN



HEIGHT LIMITS FOR THIS BUILDING
PER S.F. CODE IS 50 FT. AGL

TOP OF SPRINT ENCLOSURE/ELEVATOR
= 56'-6"±

NEW 16' RADOME WITH COVER
NEW BELAIR WI-FI ANTENNA
(SEE SHEET A-2 FOR ENLARGED ANTENNA LOCATION)
(SEE SHEET A-6 FOR ANTENNA DETAIL)

SOUTHERN ELEVATION
SCALE: 1/4"=1'-0"
0' 2' 4' 8' 12'

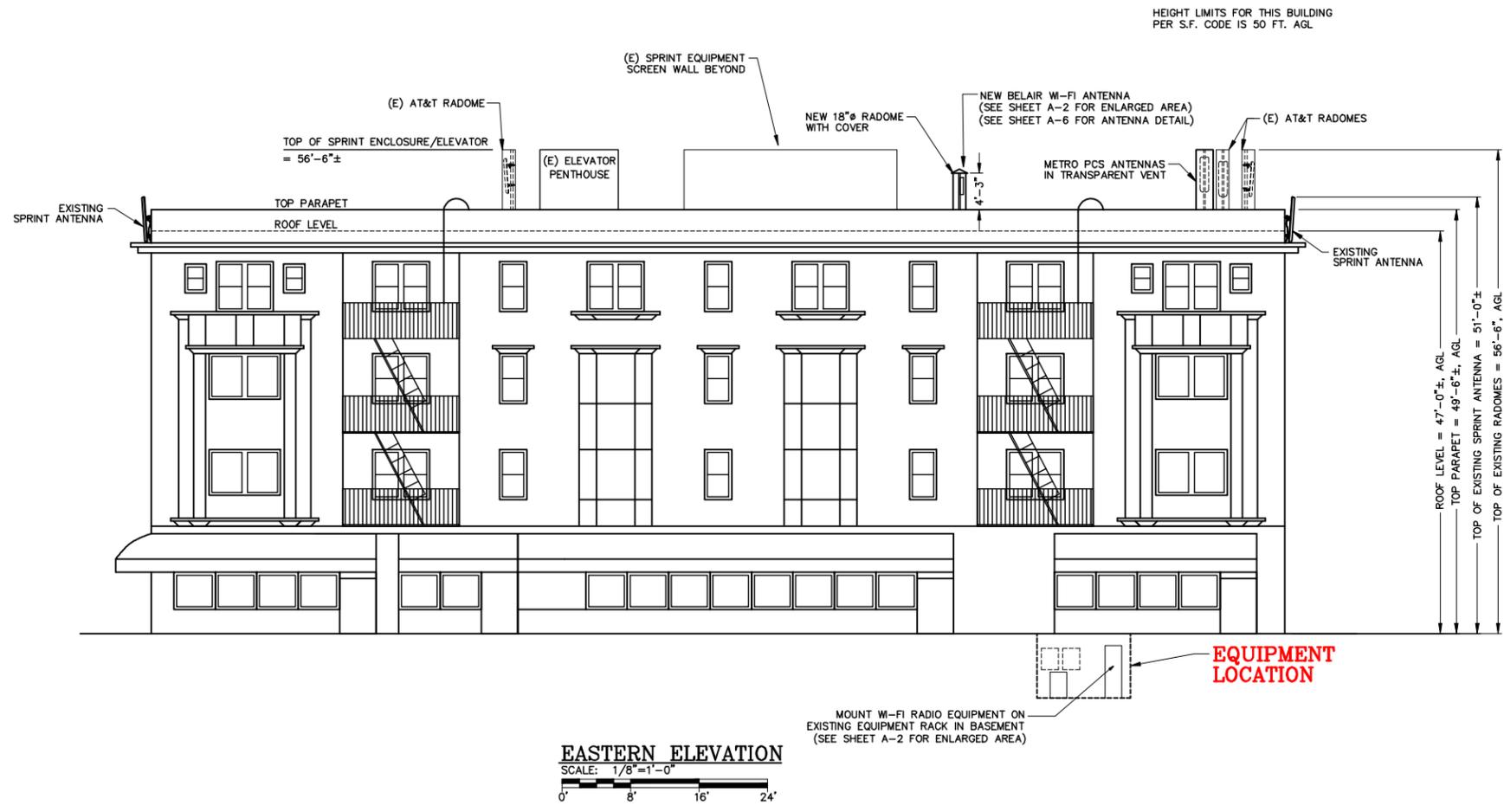
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SAN FRANCISCO, CA 94115
AT&T Site ADDRESS: SAN FRANCISCO, CA 94115
HMH Project No. 011083
Date 07/18/11
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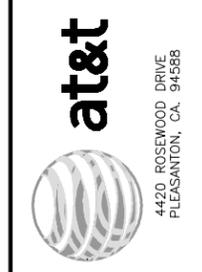
ELEVATIONS



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ELEVATIONS

BA100N-11-AC supports AC
 BA100N-11-DC supports DC and PoE
 PoE Power Components

- PoE Injector – two types, co-located with Ethernet switch
- PoE Splitter Cable, connects to the node
- Bulgin Buccaneer Ethernet Joiner
- BA100N-11-DC consumes more power than 802.11af offers, and requires a BelAir Injector

Outdoor PoE Injector (BNCKG0151)

- Universal AC input
- Max Distance over Cat5: 100 meters
- Climate-Hardened: -40°C to +70°C, but requires weatherproof NEMA enclosure
- Dimensions: 6.2" x 2.5" x 1.3"

Indoor PoE Injector (BNCKG0101)

- Max Distance over Cat5: 74 meters
- AC Power Supply is NOT climate-hardened (0°C to 50°C)

Splitter Cable (BNCKG0023 or BNCKG0102) and Ethernet Joiner (PX0777)

- Splitter cable is installed at the node, and splits the PoE Ethernet into separate DC power and Ethernet endpoints.
- Ethernet Joiner weather-hardens the connection between the PoE Splitter Cable and the Cat5 cable back to the PoE Injector.



Wi-Fi Offload Design

Triplexer Specs

The triplexer provides high immunity to cellular band operation, with over 80 dB of rejection of 900/PCS1900/AWS bands and 60 dB of 2500-2700 MHz WiMAX band signals to ensure interference free co-location operation.

- 2.4GHz Triplexer (BNCKG0138)
- Non-powered
- Hardened: IP66, -40°C to +70°C
- Mounts on pole, wall or shelf
- Less than 10.25" x 13.8" x 2.1"
- Weight: 18lbs

BelAir NETWORKS BELAIR NETWORKS CONFIDENTIAL Slide 89 BCM000270-001

Wi-Fi Offload Design

Node Specifications

- Node must be mounted horizontally
 - Dimensions: 7.5"Hx13.24"Wx6.25"D
 - Weight: 12 lbs.
- Mounting options:
 - Wall
 - Non-Penetrating Roof Mount
 - Pole
- Environmental requirements
 - Operating temperature: -40°F to +149°F (-40°C to +65°C)
- Power options (typical power consumption: 24 Watts):
 - 120 VAC
 - 48 VDC
 - "PoE"

BelAir NETWORKS BELAIR NETWORKS CONFIDENTIAL Slide 70 BCM000270-001

Wi-Fi Offload Design

Node Mounting Options

Mounting Options

- Pole mounting
- Flat roof mounting
- Wall mounting

Anti-theft Features

- Tool removable fasteners
- Security cable slots

BelAir NETWORKS BELAIR NETWORKS CONFIDENTIAL Slide 95 BCM000270-001

Mounting Options

The BelAir nodes can be mounted in various ways, including:

- Pole Mounting
- Flat Roof Mounting
- Wall Mounting

Anti-Theft Features

BelAir mounting features have two levels of protection to discourage acts of vandalism and theft.

BelAir radios are secured to standard mounting brackets with tool removable fasteners. In this way, it is not possible to remove the unit without the use of tools.

BelAir radios are also equipped with multiple security cable slots that may be used to lock the unit in place. These slots, used in conjunction with a standard security cable, such as those available for laptop computers, provide a reliable way of securing the unit. These slots are provided in various locations to allowing locking in all mounting orientations.

Wi-Fi Offload Design

Switch Options

Indoor - Cisco Catalyst 2960S-24TS-L

- Dimensions: 1.75"Hx 17.5"Wx 11.8"D
- Weight 10 lbs
- Operating Temperature 0° to 113°F

Outdoor - Cisco IE-3000-8TC: Industrial Ethernet switch with eight Ethernet 10/100 ports and two dual-purpose uplink ports

- Dimensions:
 - 5.8"Hx6"W x4.4"D
- Weight 4.4 lbs
- Operating Temperature:
 - 40°F to 167°F
- Must be enclosed in a weather proof cabinet

BelAir NETWORKS BELAIR NETWORKS CONFIDENTIAL Slide 97 BCM000270-001

Cisco IEM-3000-8TM - Expansion Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, 8 10/100 TX ports

Cisco IEM-3000-8FM - Expansion Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, 8 100 FX ports

Cisco PWR-IE3000-AC - Expansion Power Module for Cisco IE-3000-4TC-E and Cisco IE-3000-8TC Switches, supports 110/220VAC and 88-300VDC (base switches support 18VDC-60VDC)

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps9703/data_sheet_c78-440930.html

http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps6406/product_data_sheet0900aecd80322c0c.html

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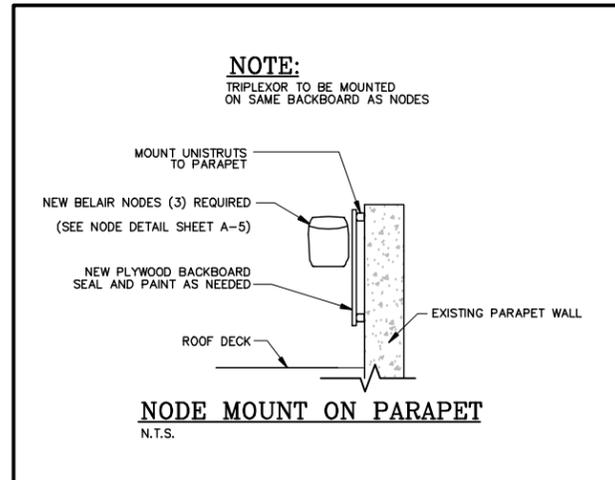
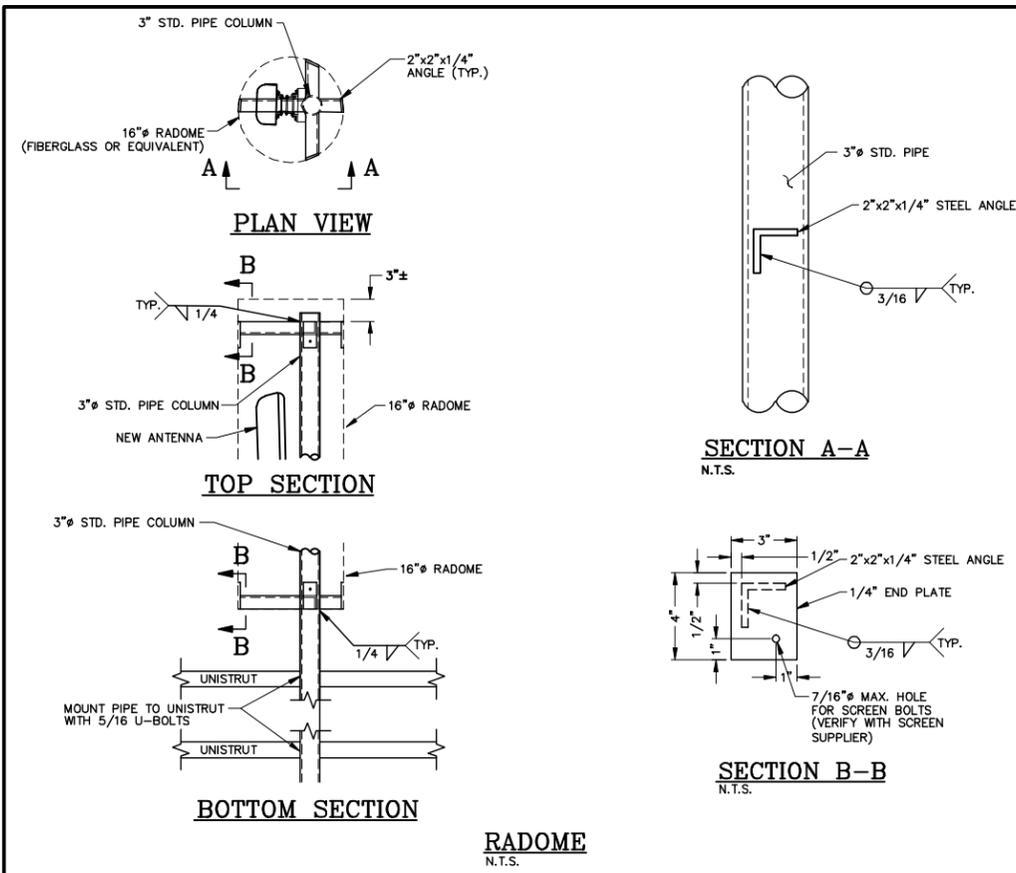
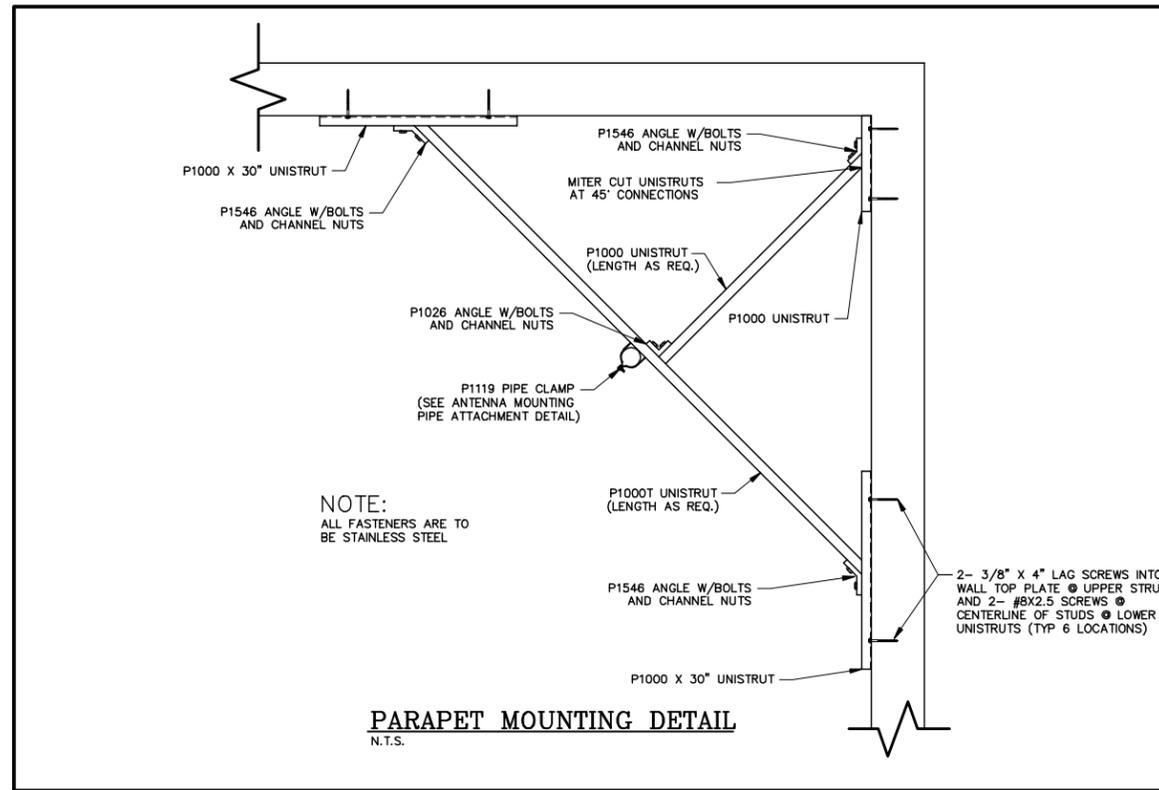
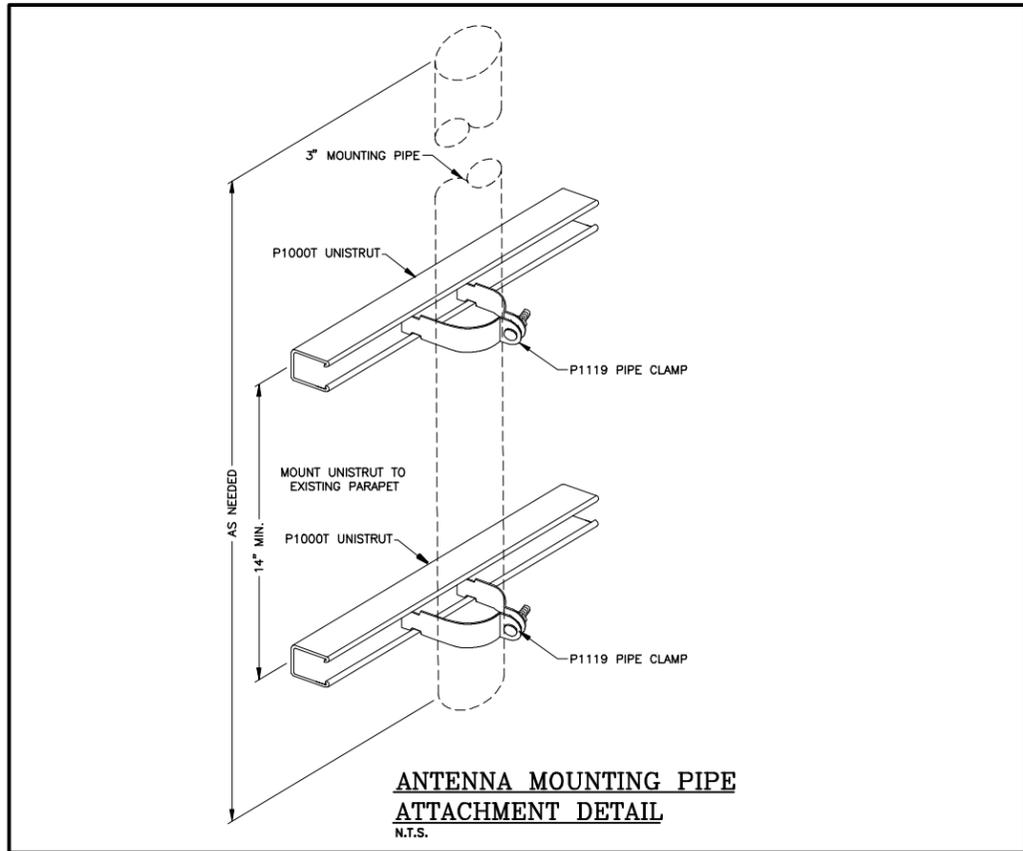
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AT&T Project No.	
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CUT SHEETS

A-5



BNCKG0086 Sector Antenna

The BNCKH0086 is a quad input MIMO antenna specifically optimized for BelAir Networks radio products for cellular co-location offload.

The antenna employs two columns of slant dipoles for each of the 2400-2483.5 ISM and 4900-5900 MHz U-NII/ISM bands.

The four antenna ports are protected with a DC ground on each port. The antenna is encased in a weather proof ruggedized UV resistant plastic radome.

The antenna provides excellent performance with VSWR < 1.5 and a front-to-back ratio of > 20 dB at 2.4 GHz and 25 dB at 5 GHz.

The antenna has down tilt capability, and is designed to attach to standard mechanical structures of 0.75" to 2.0" pipe, supporting a down tilt capability up to 45 degrees.

Features at a Glance:

- 90° x 30° sector
- 10 dBi peak gain at 2.4 and 5 GHz
- 2400-2483.5 and 4900-5900 MHz
- Four N-female connectors
- Linear dual slant 45° 2x2 at 2.4 / 5 GHz
- Environmentally hardened
- -40C to +70C operation
- Package 20" high x 6.7" wide x 6" deep
- Plastic radome, paintable
- Mounting bracket with tilt adjustment

Mechanical Specifications	
Length	< 20"
Width	< 7"
Depth	< 6"
Weight	< 10 lbs
Mounting Pipe	0.75" to 2.0" outside diameter
Tilt Adjustment	0 to 45° tilt from vertical or horizontal orientation

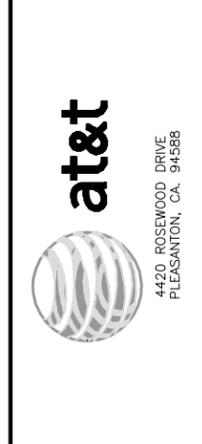
BELAIR ANTENNA
NOT TO SCALE

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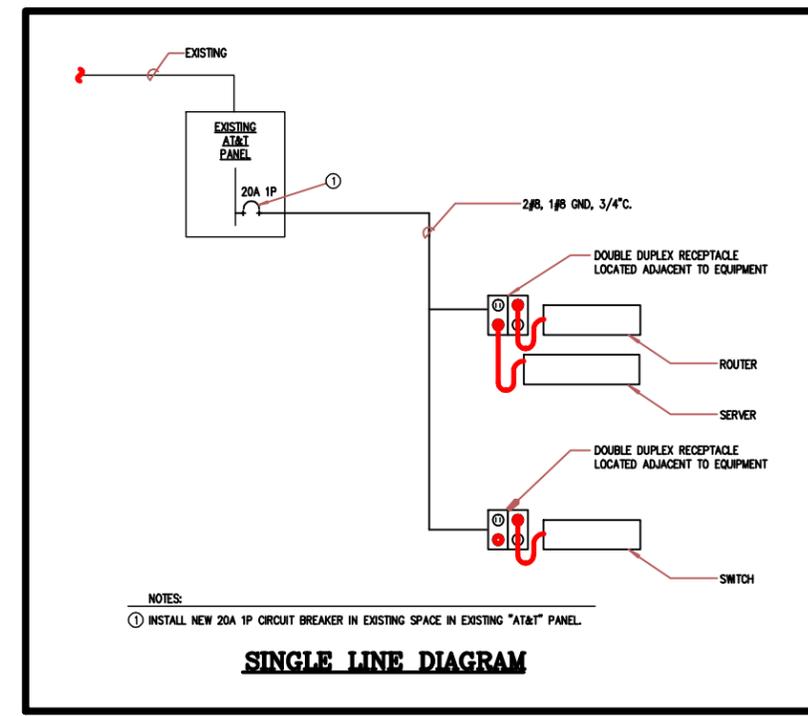
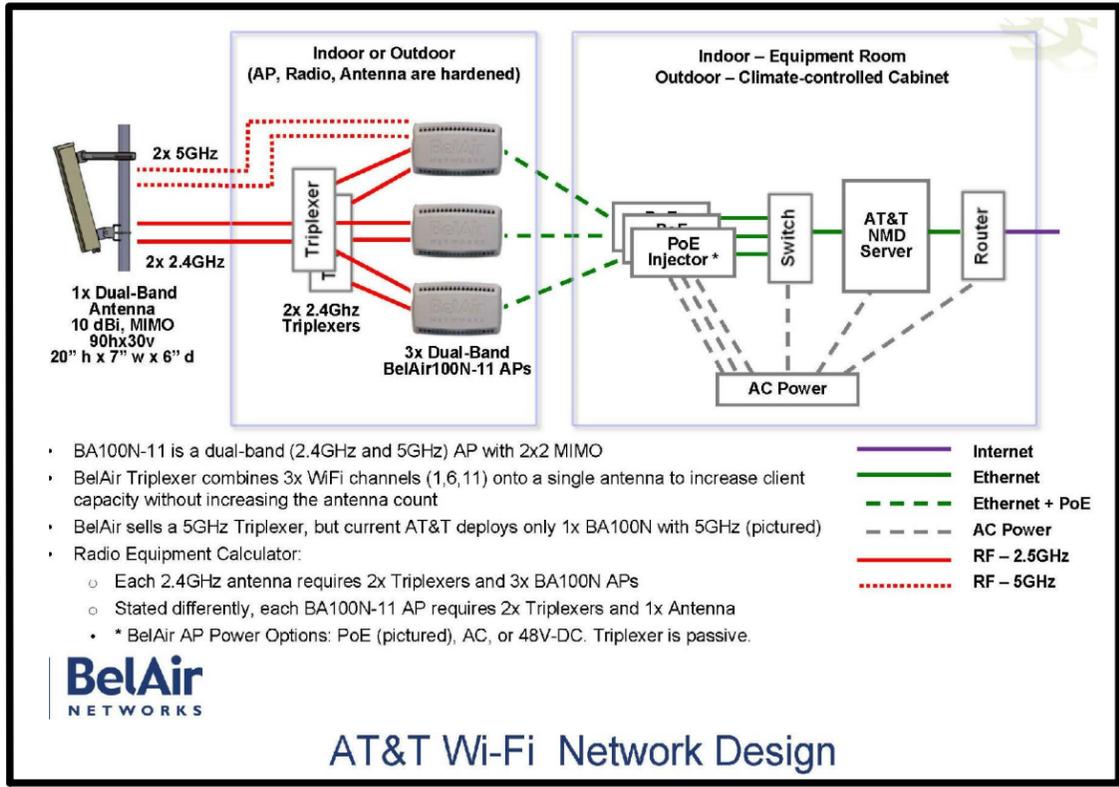
HMH DESIGN GROUP

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DETAILS



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SINGLE LINE DIAGRAM

E-1