SAN FRANCISCO
PLANNING DEPARTMENT

Executive Summary
Conditional Use Authorization
HEARING DATE: JANUARY 19, 2017

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

Reception:
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Planning
Information:
415.558.6377

Date:	January 12, 2017
Case No.:	**2016-004865CUA**
Project Address:	**1101 Fillmore Street**
Current Zoning:	Fillmore Street NCT (Neighborhood Commercial Transit District) 50-X Height and Bulk District
Block/Lot:	0755/002
Project Sponsor:	AT&T Mobility, represented by Eric Lentz 430 Bush Street, 5th Floor San Francisco, CA 94108
Staff Contact:	Stephanie Skangos – (415) 575-8731 Stephanie.Skangos@sfgov.org
Recommendation:	Approval with Conditions

PROJECT DESCRIPTION

The proposal is to allow the modification of an existing AT&T Mobility macro Wireless Telecommunications Services ("WTS") facility. The modification consists of the installation of three (3) new antennas (for a total of six (6) antennas) mounted on an existing rooftop behind new screening; relocation of three (3) existing antennas to behind new screening; installation of three (3) new Radio Relay Units (RRUs); relocation of six (6) existing RRUs; and other equipment upgrades.

The six (6) antennas will be split into three (3) sectors of two (2) antennas each. Each sector will be rooftop mounted and screened within new screen walls composed of fiber-reinforced plastic ("FRP"), which allows radio signals to pass through, but can be textured and painted to mimic existing elements of the subject building.

Sectors A and B will be located at the northwest corner of the subject property and screened from view within one (1) FRP screen box, measuring 7'-0"L x 8'-0"W x 6'-0"H and setback 7'-0" from the building's northern edge. Sector C will be located in the middle of the subject building, along the eastern edge, adjacent to an existing screen wall with existing Sprint equipment. Sector C will be located within one (1) FRP screen box, measuring 9'-6"L x 6'-0"W x 6'-6"H and setback 7'-0" from the building's eastern edge, which fronts Fillmore Street. The height of the Sector C FRP screen wall will be flush with the existing screen wall used as part of Sprint's Macro installation on-site.

All new and relocated RRUs, three (3) RRUs per sector, will be located adjacent to the antennas, within the new screening. Additional ancillary equipment will also be installed at each sector, behind screening, and within an existing equipment area located in the basement of the subject building.

SITE DESCRIPTION AND PRESENT USE

The Project Site is located on Assessor's Block 0755, Lot 002. The lot is located at the northwest corner of Fillmore Street and Golden Gate Avenue. The subject building is currently identified as mixed-use, consisting of commercial on the ground floor and residential apartments above.

There are two (2) existing WTS facilities by AT&T Mobility and Sprint at the Project Site. AT&T Mobility's existing WTS facility consists of three (3) antennas located within faux vents. Sprint has three (3) antennas, all of which are roof-mounted and screened within faux vents. The existing AT&T antennas will be relocated as described above, and the associated existing faux vents will be removed as part of this Project.

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is situated within the Western Addition neighborhood. Surrounding uses include a mix of neighborhood-serving commercial and residential uses.

ENVIRONMENTAL REVIEW

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 1 categorical exemption (Minor Alteration to Existing Communications Facilities). 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, Suite 400, San Francisco.

HEARING NOTIFICATION

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	December 30, 2016	December 28, 2016	22 days
Posted Notice	20 days	December 30, 2016	December 29, 2016	21 days
Mailed Notice	20 days	December 30, 2016	December 30, 2016	20 days

PUBLIC COMMENT/COMMUNITY OUTREACH

The Project Sponsor held a community meeting on March 10, 2016 from 6:00pm to 6:45pm at the Western Addition Branch Library at 1550 Scott Street. Two (2) members of the community attended the meeting for further information on the Project and asked questions about the benefits expected from upgrading the existing WTS facility, the locations of AT&T Mobility's nearest WTS facilities, and how many other wireless carriers had WTS facilities in the vicinity.

As of January 5, 2017, the Department has not received any calls or testimony raising concerns or supporting the Project.

ISSUES AND OTHER CONSIDERATIONS

- Based on the zoning and land use, the existing WTS facility is considered a Location Preference 2 Site (Co-Location Site), which is considered a "preferred location" according to the WTS Facilities

Siting Guidelines, as the Project Site has an existing permitted AT&T Mobility WTS facility and is a co-location site with other wireless carriers.

- Given the directional nature of the panel antennas, their specific orientation, and their placement on the roof, the RF emissions created by the proposed panel antennas would not result in exposure levels that approach or exceed the public exposure limits set by the Federal Communications Commission (FCC). As noted on Radio-Frequency (RF) emissions report, the combined maximum RF exposure of the AT&T WTS facility would be at maximum 1.1% of the public exposure limit set by the FCC. (Cumulative RF levels for all existing WTS facilities at the Project Site would be less than 2.0% of the applicable public limit.) The antennas are not accessible to any unauthorized persons due to their height and location on the roof. Health and safety aspects (e.g. engineering review for structural loads, and backup battery storage) of all wireless Projects are reviewed by the Department of Public Health, San Francisco Fire Department, and the Department of Building Inspection.

- The proposed macro WTS facility would not significantly impair commercial and residential activities within the Project Site.

- AT&T Mobility has an updated Five Year Plan on file with the Department that includes the approximate longitudinal and latitudinal coordinates of proposed locations, including the Project Site.

- All required public notifications were conducted in compliance with the Planning Code and adopted WTS policies.

REQUIRED COMMISSION ACTION

Pursuant to Sections 303 and 747.33A of the Planning Code, a Conditional Use Authorization is required for a macro WTS facility (Utility and Infrastructure Use) in the Fillmore Street NCT Zoning District.

BASIS FOR RECOMMENDATION

This Project is necessary, desirable, and compatible with the surrounding neighborhood, in accordance with Section 303 of the Planning Code, for the following reasons:

- The proposed facility would be screened from view by virtue of proposed enclosures and their placement on the rooftop of the Project Site. The proposal would not significantly detract from views of the Subject Building or from the view of other surrounding buildings, nor would it detract from adjacent streetscapes and vistas within the Western Addition neighborhood.
- The Project is on balance, consistent with the Objectives and Policies of the General Plan, as outlined in the draft Motion.
- The Project is consistent with the 1996 WTS Facilities Siting Guidelines, Planning Commission Resolution No. 14182, 16539, and 18523 supplementing the 1996 WTS Guidelines.
- The expected RF emissions fall well within the limits established by the Federal Communications Commission (FCC).
- According to the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines, the Project Site is a preferred location, as a Location Preference 2 (Co-Location) Site.

- Based on propagation maps provided by AT&T Mobility, the Project would provide enhanced coverage in an area that currently experiences gaps in coverage and capacity.
- Based on the analysis provided by AT&T Mobility, the Project would 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.

RECOMMENDATION:	**Approval with Conditions**

Attachments:
Draft Conditional Use Authorization Motion
Block Book Map
Sanborn Map
Zoning Map
Aerial Map
Contextual Photographs
Photo Simulations
Radio Frequency Report
Department of Public Health Approval
Community Outreach Report
Coverage Maps
Independent Evaluation
Reduced Plans

Attachment Checklist

☒	Draft Motion	☒	Project sponsor submittal
☒	Zoning District Map		Drawings: Proposed Project
☐	Height & Bulk Map	☒	Check for legibility
☒	Block Book Map	☒	Community Outreach Report
☒	Sanborn Map	☒	Coverage Maps
☒	Aerial Map	☒	RF Report
☒	Context Photos	☒	DPH Approval
☒	Photo Simulations	☒	Independent Evaluation

Exhibits above marked with an "X" are included in this packet SMS Planner's Initials

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SAN FRANCISCO
PLANNING DEPARTMENT

Subject to: (Select only if applicable)

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

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Planning Commission Draft Motion

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ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 303 AND 747.33A TO MODIFY AN EXISTING ATT&T MOBILITY MACRO WIRELESS TELECOMMUNICATIONS SERVICES FACILITY FOR A TOTAL OF UP TO SIX (6) SCREENED ROOFTOP MOUNTED PANEL ANTENNAS AS PART OF THE AT&T MOBILITY TELECOMMUNICATIONS NETWORK WITHIN THE FILLMORE STREET NCT (NEIGHBORHOOD COMMERCIAL TRANSIT) ZONING DISTRICT AND A 50-X HEIGHT AND BULK DISTRICT.

PREAMBLE

On April 13, 2016, AT&T Mobility (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for a Conditional Use Authorization on the property at 1101 Fillmore Street, Block 0755, Lot 002, (hereinafter "Project Site") to modify an existing AT&T Mobility Wireless Telecommunications Services Facility consisting of installation of three (3) new antennas (for a total of six (6) antennas) mounted on an existing rooftop behind new screening; relocation of three (3) existing antennas to behind new screening; installation of three (3) new Radio Relay Units (RRUs); relocation of six (6) existing RRUs; and other equipment upgrades as part of the AT&T Mobility Wireless Telecommunications Network, within the Fillmore Street NCT (Neighborhood Commercial Transit) Zoning District and a 50-X Height and Bulk District.

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 1 Categorical Exemption (Section 15301 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, Suite 400, San Francisco.

On January 19, 2017 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. 2016-004865CUA, subject to the conditions contained in "EXHIBIT A" of this motion, based on the following findings:

FINDINGS

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

1. The above recitals are accurate and constitute findings of this Commission.

2. **Site Description and Present Use**. The Project Site is located on Assessor's Block 0755, Lot 002. The lot is located at the northwest corner of Fillmore Street and Golden Gate Avenue. The subject building is currently identified as mixed-use, consisting of commercial on the ground floor and residential apartments above.

   There are three (3) existing WTS facilities by AT&T Mobility and Sprint at the Project Site. AT&T Mobility's existing WTS facility consists of three (3) antennas located within faux vents. Sprint has three (3) antennas, all of which are roof-mounted and screened within faux vents. The existing AT&T antennas will be relocated as described above, and the associated existing faux vents will be removed as part of this Project.

3. **Surrounding Properties and Neighborhood**. The Project Site is situated within the Western Addition neighborhood. Surrounding uses include a mix of neighborhood-serving commercial and residential uses.

4. **Project Description.** The proposal is to allow the modification of an existing AT&T Mobility macro Wireless Telecommunications Services ("WTS") facility. The modification consists of the installation of three (3) new antennas (for a total of six (6) antennas) mounted on an existing rooftop behind new screening; relocation of three (3) existing antennas to behind new screening; installation of three (3) new Radio Relay Units (RRUs); relocation of six (6) existing RRUs; and other equipment upgrades.

The six (6) antennas will be split into three (3) sectors of two (2) antennas each. Each sector will be rooftop mounted and screened within new screen walls composed of fiber-reinforced plastic ("FRP"), which allows radio signals to pass through, but can be textured and painted to mimic existing elements of the subject building.

Sectors A and B will be located at the northwest corner of the subject property and screened from view within one (1) FRP screen box, measuring 7'-0"L x 8'-0"W x 6'-0"H and setback 7'-0" from the building's northern edge. Sector C will be located in the middle of the subject building, along the eastern edge, adjacent to an existing screen wall with existing Sprint equipment. Sector C will be located within one (1) FRP screen box, measuring 9'-6"L x 6'-0"W x 6'-6"H and setback 7'-0" from the building's eastern edge, which fronts Fillmore Street. The height of the Sector C FRP screen wall will be flush with the existing Sprint screen wall.

All new and relocated RRUs, three (3) RRUs per sector, will be located adjacent to the antennas, within the new screening. Additional ancillary equipment will also be installed at each sector, behind screening, and within an existing equipment area located in the basement of the subject building.

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 were 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.

6. **Location Preference.** The *WTS Facilities Siting Guidelines* identify different types of zoning districts and building uses for the siting of wireless telecommunications facilities. Based on the zoning and land use, the proposed WTS facility is at a Location Preference 2 Site (Co-Location Site) according to the WTS Facilities Siting Guidelines, making it a preferred location.

7. **Radio Waves Range.** The Project Sponsor has stated that the proposed wireless network is designed to address coverage and capacity needs in the area. The network will operate in the 700 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 Project was referred to the Department of Public Health (DPH) for emissions exposure analysis. Radio-Frequency (RF) levels from the proposed AT&T Mobility transmitters at ground level would cumulatively (in addition to the RF emitted by Sprint) be less than 2.0% of the FCC public exposure limit.

   There are 6 antennas existing operated by AT&T Wireless and Sprint installed on the roof top of the building at 1101 Fillmore St. Existing RF levels at ground level were around 0.9% of the FCC public exposure limit. No other antennas were observed within 100 feet

of this site. AT&T Wireless proposes to relocate the 3 existing antennas and install 3 new antennas. The antennas are mounted at a height of 54 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.0064 mW/sq cm., which is 1.1 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 47 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Barricades are to be provided around rooftop areas exceeding the FCC public exposure limit. Yellow striping and red striping are to be provided on rooftop surfaces that exceed the FCC public exposure limit and FCC occupational exposure limit, respectively. Workers should not have access to within 17 feet of the front of the antennas while they are in operation.

10. **Coverage and Capacity Verification.** The maps, data, and conclusion provided by AT&T Mobility to demonstrate the need for outdoor and indoor coverage and capacity have been determined by Hammett & Edison, Inc., an engineering consultant and independent third party, to accurately represent the carrier's present and post-installation conclusions.

11. **Maintenance Schedule**. The facility would operate without on-site staff but with a maintenance crew visiting the property to service and monitor the facility.

12. **Community Outreach.** As required under the *Guidelines*, the Project Sponsor held a community meeting at 1550 Scott Street, to discuss the Project at 6:00 p.m. on March 10, 2016. Two (2) members of the community attended the meeting for further information on the Project and asked questions about the benefits expected from upgrading the existing WTS facility, the locations of AT&T Mobility's nearest WTS facilities, and how many other wireless carriers had WTS facilities in the vicinity.

13. **Five-year plan:** Per the *Guidelines*, the Project Sponsor submitted an updated five-year plan, as required, in October 2016.

14. **Public Comment.** As of January 5, 2017, the Department has not received any calls or testimony raising concerns or supporting the 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 747.33A, a Conditional Use Authorization is required for a macro WTS facility (Utility and Infrastructure Use).

16. **Planning Code Section 303** establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use Authorization. On balance, the Project complies 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 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 neighborhood. The overall location, setback from public streets, height and design of the proposed facility, including visible screening elements is situated so as to avoid intrusion into public vistas, and to insure harmony with the existing neighborhood character and promote public safety.

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 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 Project Site is a preferable 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 facility will not affect landscaping, open space, required parking, lighting or signage at the Project Site or surrounding area.

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.

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

HOUSING ELEMENT
Objectives and Policies

BALANCE HOUSING CONSTRUCTION AND COMMUNITY INFRASTRUCTURE

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

Policy 12.3:
Ensure new housing is sustainable supported by the City's public infrastructure systems.

The Project will improve AT&T Mobility's coverage and capacity within the Western Addition neighborhood.

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 1.1:
Encourage development, which provides substantial net benefits and minimizes undesirable consequences. Discourage development, which has substantial undesirable consequences that cannot be mitigated.

Policy 1.2:
Assure that all commercial and industrial uses meet minimum, reasonable performance standards.

The Project will 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 2.1:
Seek to retain existing commercial and industrial activity and to attract new such activity to the city.

Policy 2.3:
Maintain a favorable social and cultural climate in the city in order to enhance its attractiveness as a firm location.

The Site will be 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 4.1:
Maintain and enhance a favorable business climate in the City.

Policy 4.2:
Promote and attract those economic activities with potential benefit to the City.

The Project will 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:
ESTABLISH STRATEGIES TO ADDRESS THE IMMEDIATE EFFECTS OF A DISASTER.

Policy 1.20
Increase communication capabilities in preparation for all phases of a disaster and ensure communication abilities extend to hard-to-reach areas and special populations.

Policy 2.4
Bolster the Department of Emergency Management's role as the City's provider of emergency planning and communication, and prioritize its actions to meet the needs of San Francisco.

Policy 2.15
Utilize advancing technology to enhance communication capabilities in preparation for all phases of a disaster, particularly in the high-contact period immediately following a disaster.

Policy 3.7:
Develop a system to convey personalized information during and immediately after a disaster.

The Project will 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 complies with said policies in that:

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

The wireless communications network will enhance personal communication services for businesses and customers in the surrounding area.

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 will 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 will have no adverse effect 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 will not be significantly impeded and neighborhood parking will 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 will not cause any 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 will be considered during the building permit application review process.

G. That landmarks and historic buildings be preserved.

The facility will be screened from view by virtue of equipment placement on the rooftop. While the proposed screen boxes are minimally visible from surrounding public rights-of-way (e.g. sidewalks along surrounding streets), the size, height, and setback of the screening structures will not significantly detract from views of the subject building.

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

The Project will not adversely affect parks or open space, nor their access to sunlight or public 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 Conditional Use Authorization would promote the health, safety and welfare of the City.

DECISION

That based upon the Record, the submissions by the Applicant, the staff of the Department and other interested parties, the oral testimony presented to this Commission at the public hearings, and all other written materials submitted by all parties, the Commission hereby APPROVES Conditional Use Application No. **2016-004865CUA**, subject to the following conditions attached hereto as "EXHIBIT A" in general conformance with plans on file, dated October 31, 2016, and stamped "EXHIBIT B", which is incorporated herein by reference as though fully set forth.

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.

Protest of Fee or Exaction: You may protest any fee or exaction subject to Government Code Section 66000 that is imposed as a condition of approval by following the procedures set forth in Government Code Section 66020. The protest must satisfy the requirements of Government Code Section 66020(a) and must be filed within 90 days of the date of the first approval or conditional approval of the development referencing the challenged fee or exaction. For purposes of Government Code Section 66020, the date of imposition of the fee shall be the date of the earliest discretionary approval by the City of the subject development.

If the City has not previously given Notice of an earlier discretionary approval of the project, the Planning Commission's adoption of this Motion, Resolution, Discretionary Review Action or the Zoning Administrator's Variance Decision Letter constitutes the approval or conditional approval of the development and the City hereby gives NOTICE that the 90-day protest period under Government Code Section 66020 has begun. If the City has already given Notice that the 90-day approval period has begun for the subject development, then this document does not re-commence the 90-day approval period.

I hereby certify that the foregoing Motion was adopted by the Planning Commission on **January 19, 2017**.

Jonas P. Ionin
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED:

EXHIBIT A

AUTHORIZATION

This authorization is for a Conditional Use to allow a Macro Wireless Telecommunications Facility with up to six (6) screened panel antennas (operated by AT&T Mobility) located at 1101 Fillmore Street, Block 0755, and Lot 002 pursuant to Planning Code Sections 303 and 747.33A within the Fillmore Street NCT Zoning District and an 50-X Height and Bulk District; in general conformance with plans, dated October 31, 2016 and stamped "EXHIBIT B" included in the docket for Record No. 2016-004865CUA and subject to conditions of approval reviewed and approved by the Commission on January 19, 2017, under Motion No. **XXXX**. This authorization and the conditions contained herein run with the property and not with a particular Project Sponsor, business, or operator.

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 19, 2017** under Motion No. **XXXX**.

PRINTING OF CONDITIONS OF APPROVAL ON PLANS

The conditions of approval under the 'Exhibit A' of this Planning Commission Motion No. **XXXX** 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.** The authorization and right vested by virtue of this action is valid for three (3) years from the effective date of the Motion. The Department of Building Inspection shall have issued a Building Permit or Site Permit to construct the project and/or commence the approved use within this three-year period.
   For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

2. **Expiration and Renewal.** Should a Building or Site Permit be sought after the three (3) year period has lapsed, the project sponsor must seek a renewal of this Authorization by filing an application for an amendment to the original Authorization or a new application for Authorization. Should the project sponsor decline to so file, and decline to withdraw the permit application, the Commission shall conduct a public hearing in order to consider the revocation of the Authorization. Should the Commission not revoke the Authorization following the closure of the public hearing, the Commission shall determine the extension of time for the continued validity of the Authorization.
   For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

3. **10-Year Renewal.** This authorization is valid for ten (10) years from date of approval. The project sponsor must seek a renewal of this Authorization prior to expiration, but no earlier than 24 months prior to expiration, by filing an application for an amendment to the original Authorization or a new application for Authorization. Should the project sponsor decline to so file, and decline to decommission the wireless facility, the Commission shall conduct a public hearing in order to consider the revocation of the Authorization. Should the Commission not revoke the Authorization following the closure of the public hearing, the Commission shall determine the extension of time for the continued validity of the Authorization.
   For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

4. **Diligent pursuit.** 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. Failure to do so shall be grounds for the Commission to consider revoking the approval if more than three (3) years have passed since this Authorization was approved.
   For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

5. **Extension.** All time limits in the preceding three paragraphs may be extended at the discretion of the Zoning Administrator where implementation of the project is delayed by a public agency, an appeal or a legal challenge and only by the length of time for which such public agency, appeal or challenge has caused delay.

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

6. **Conformity with Current Law.** No application for Building Permit, Site Permit, or other entitlement shall be approved unless it complies with all applicable provisions of City Codes in effect at the time of such approval.
   For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

DESIGN – COMPLIANCE AT PLAN STAGE

7. **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.

8. **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:
      a. Antennas and back up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual effects;

b. Rooftop installations shall be setback such that back up facilities are not viewed from the street;
c. 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

9. **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

10. **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.

11. **Implementation Costs - WTS**. 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.

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.

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

12. **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

13. **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.
    e. Notification and Testing. The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 2 and 4.
    f. 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.

14. **Coverage and Capacity Verification.** Use is authorized as long as an independent evaluator, selected by the Planning Department, determines that the information and conclusions submitted by the wireless service provider in support of its request for conditional use are accurate. The wireless service provider shall fully cooperate with the evaluator and shall provide any and all data requested by the evaluator to allow the evaluator to verify that the maps, data, and conclusions about service coverage and capacity submitted are accurate. The wireless service provider shall bear all costs of said evaluation. The independent evaluator, upon request by the wireless service provider shall keep the submitted data confidential and

shall sign a confidentiality agreement acceptable to the wireless service provider. The independent evaluator shall be a professional engineer licensed by the State of California.
For information about compliance, contact the Case Planner, Planning Department at 415-575-9079, www.sf-planning.org .

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

16. **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

17. **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

18. **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

19. **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 (6) months.
For information about compliance, contact Code Enforcement, Planning Department at 415-575-6863, www.sf-planning.org

20. **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.

21. **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.

22. **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

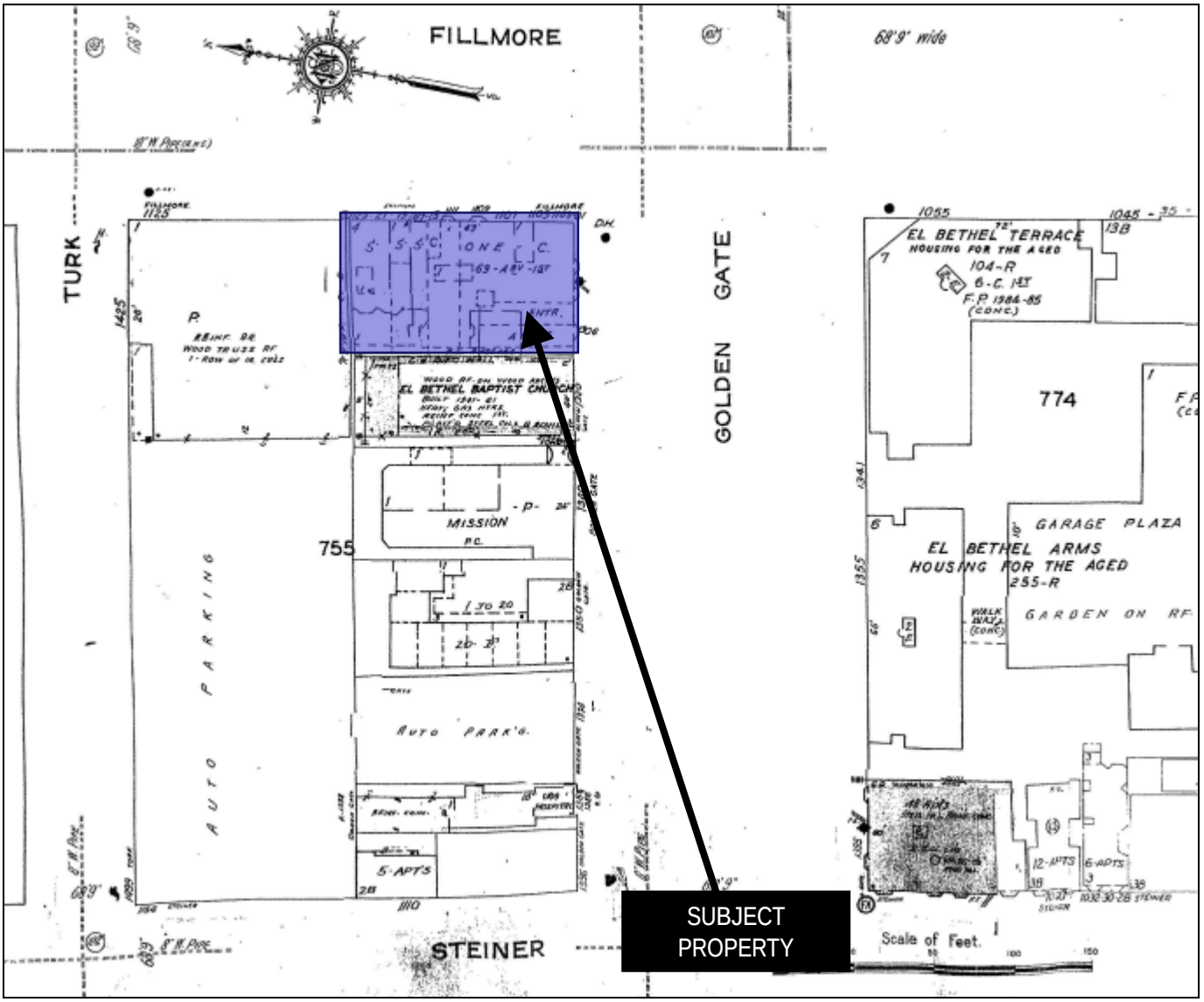
23. **Compatibility with City Emergency Services – WTS**. The facility shall not be operated or caused to transmit on or adjacent to any radio frequencies licensed to the City for emergency telecommunication services such that the City's emergency telecommunications system experiences interference, unless 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

Block Book Map

Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

SAN FRANCISCO
PLANNING DEPARTMENT

Sanborn Map*

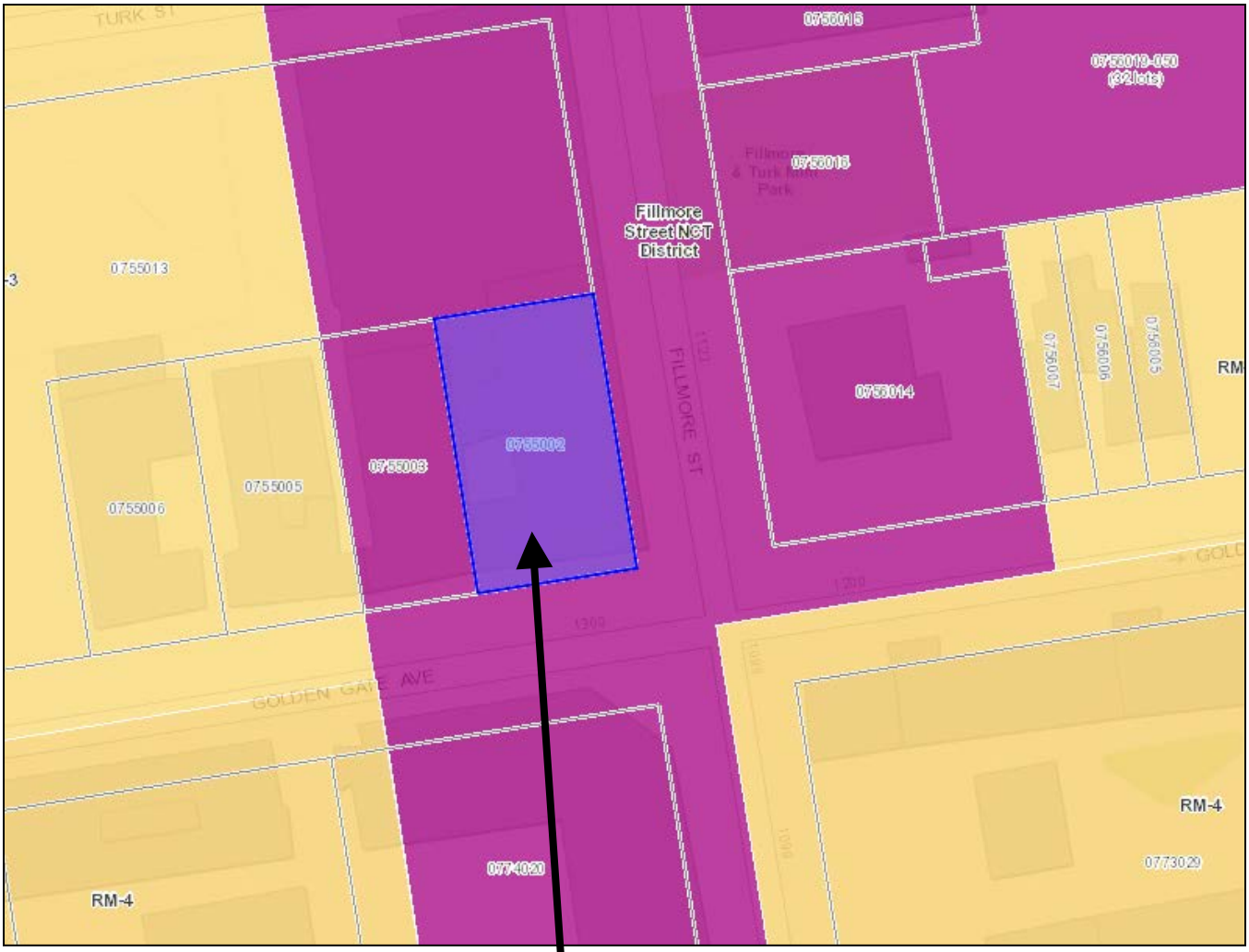


*The Sanborn Maps in San Francisco have not been updated since 1998, and this map may not accurately reflect existing conditions.

Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

SAN FRANCISCO
PLANNING DEPARTMENT

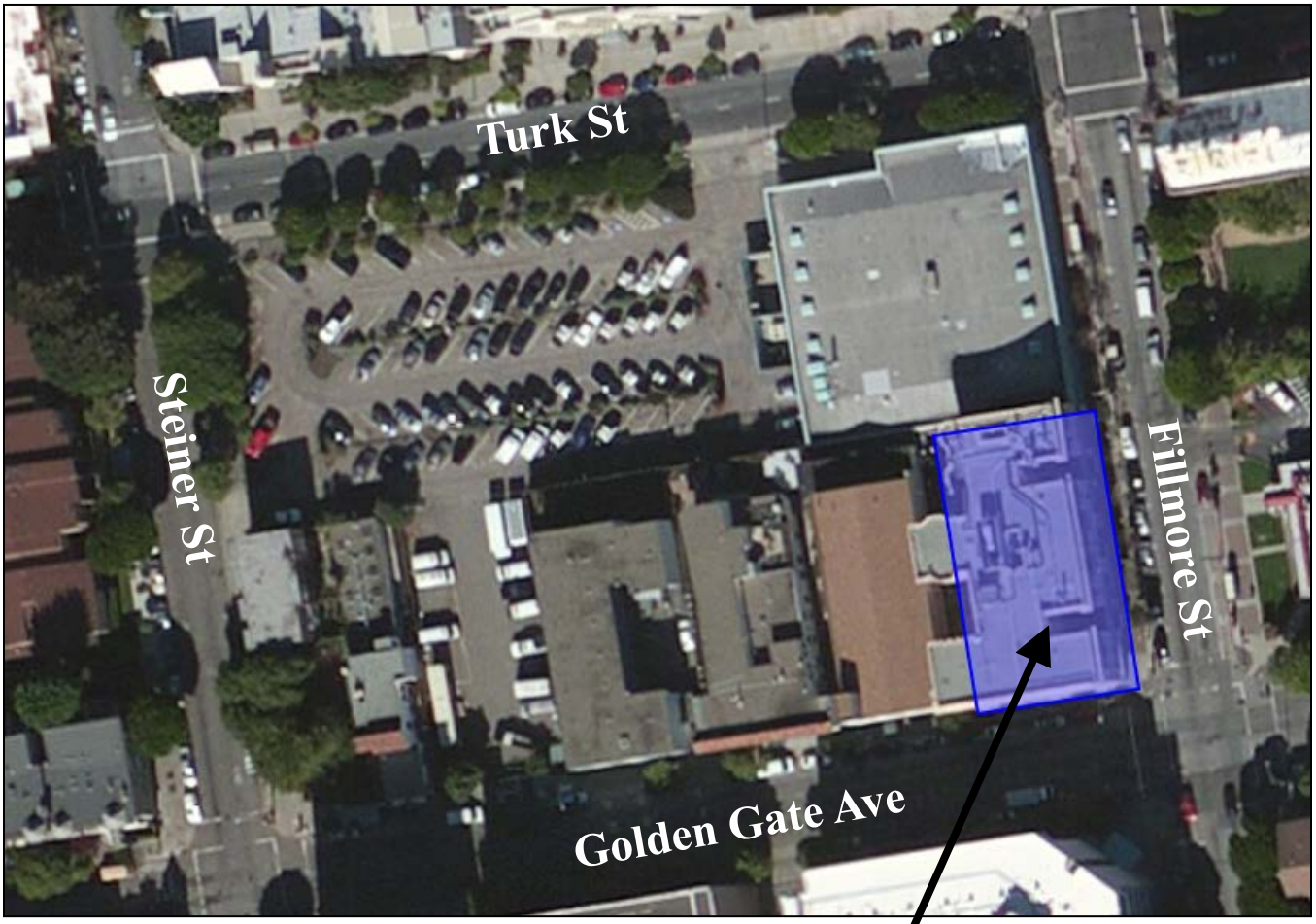
Zoning Map



Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

SAN FRANCISCO
PLANNING DEPARTMENT

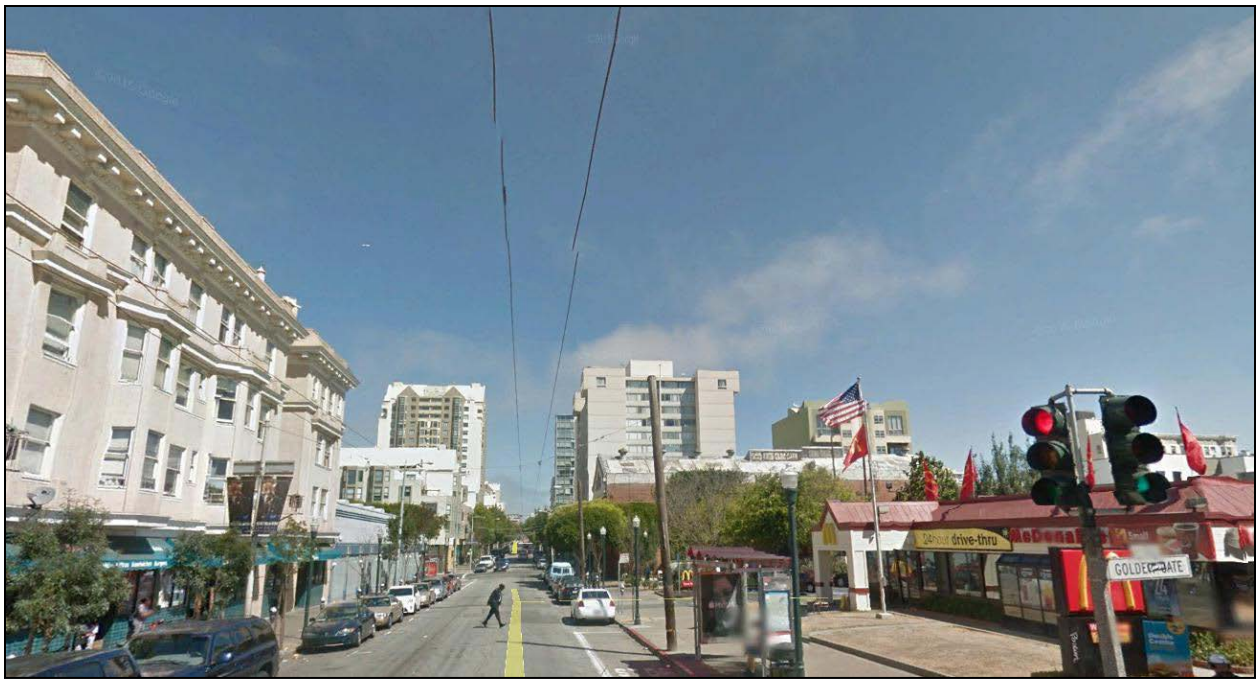
Aerial Photo



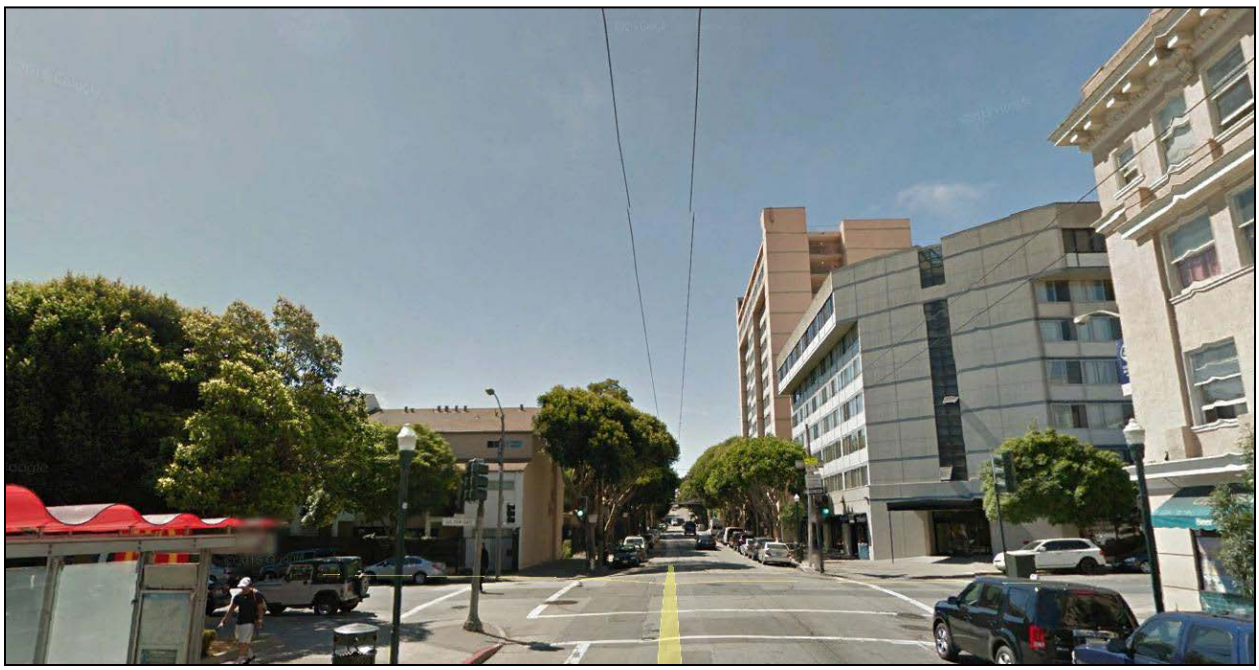
SAN FRANCISCO
PLANNING DEPARTMENT

Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

Contextual Photographs



Facing North on Fillmore St



Facing South on Fillmore St

Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

SAN FRANCISCO
PLANNING DEPARTMENT

Contextual Photographs

Facing East on Golden Gate Ave

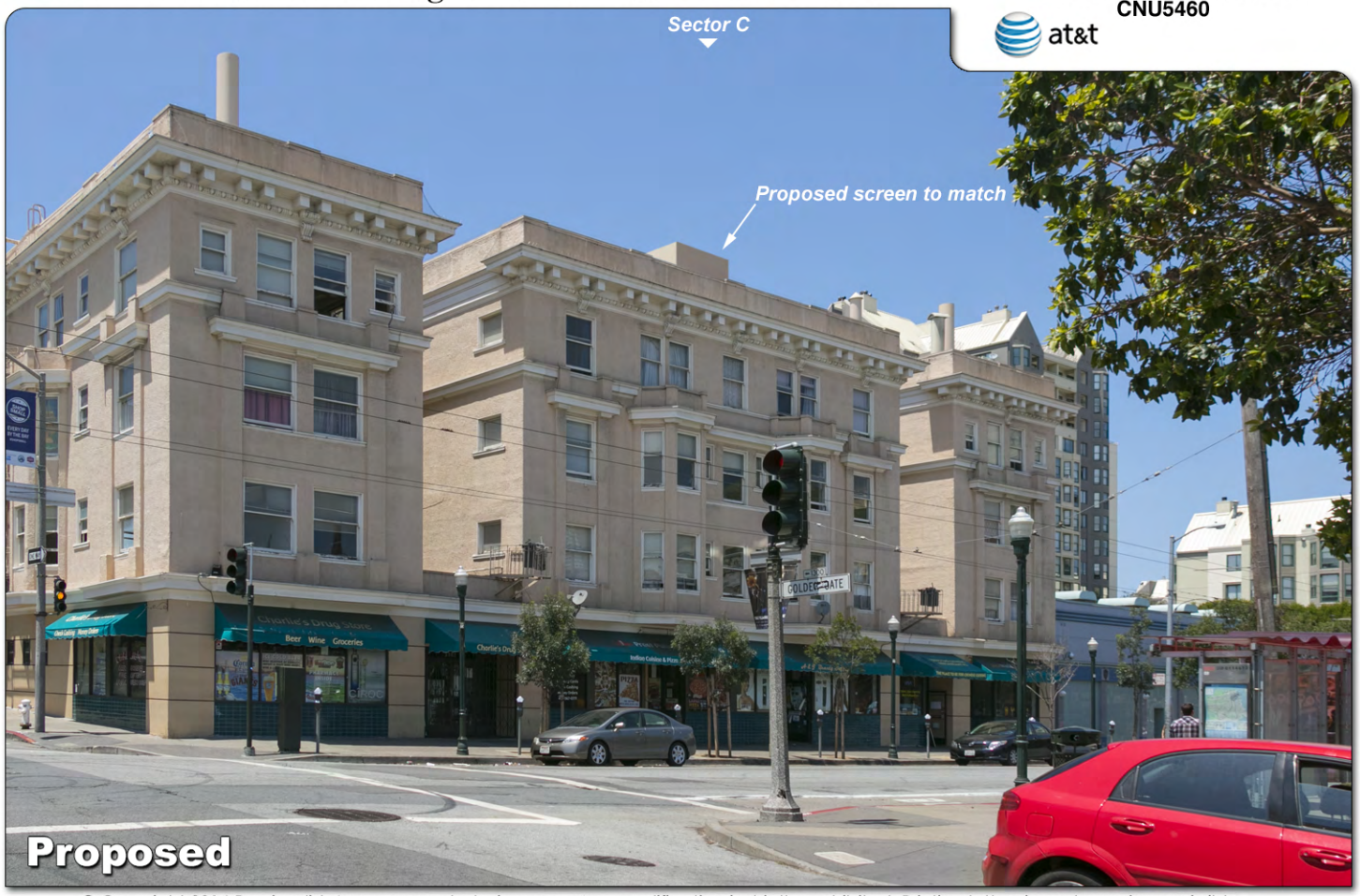
Facing West on Golden Gate Ave

Case Number 2016-004865CUA
AT&T Mobility
Macro WTS Facility
1101 Fillmore Street

Fillmore & Golden Gate
1101 Fillmore St
San Francisco, CA, 94115
CNU5460

at&t

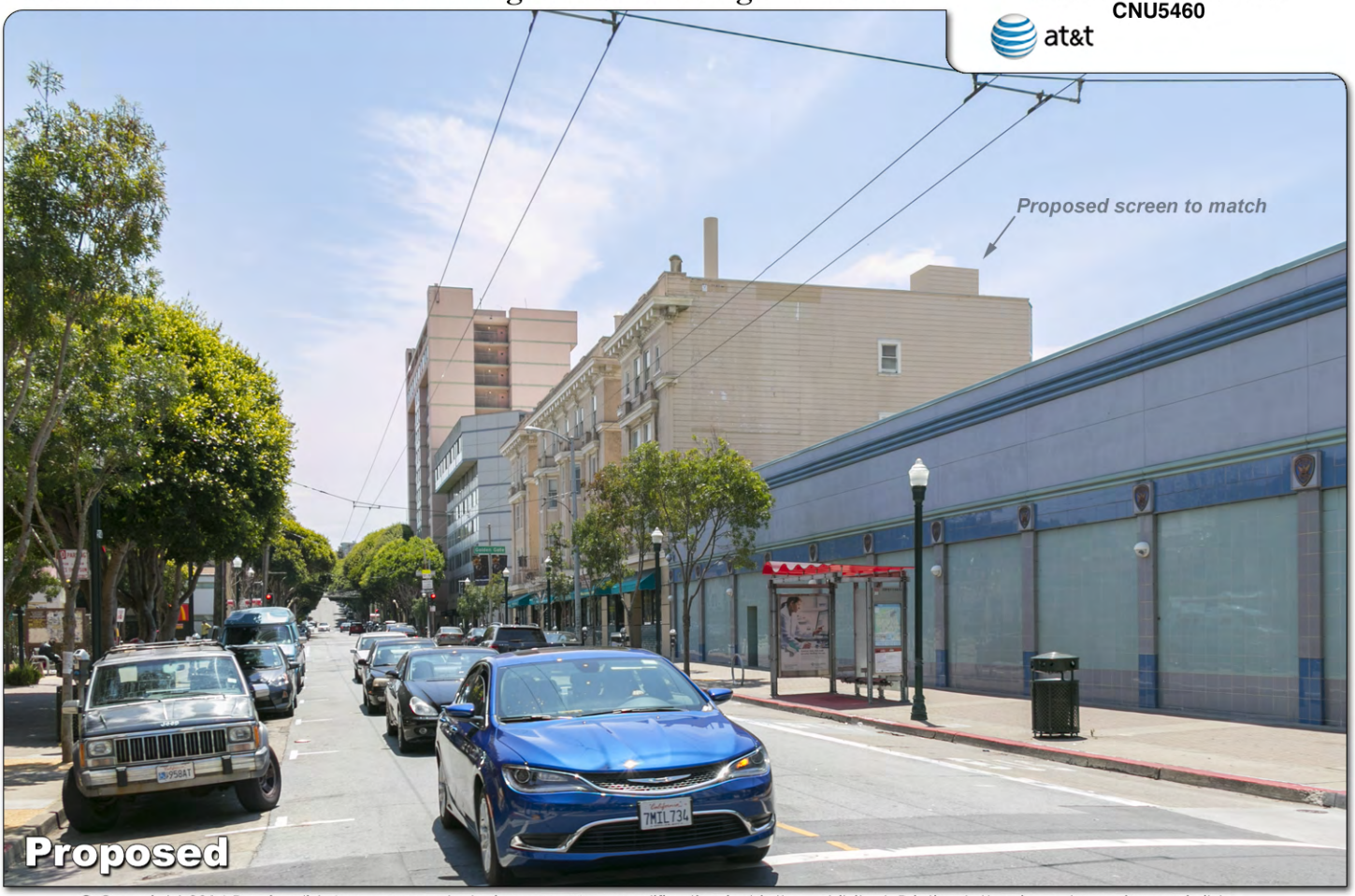
Photosim of the view looking northwest from Golden Gate Ave.



Fillmore & Golden Gate
1101 Fillmore St
San Francisco, CA, 94115
CNU5460

at&t

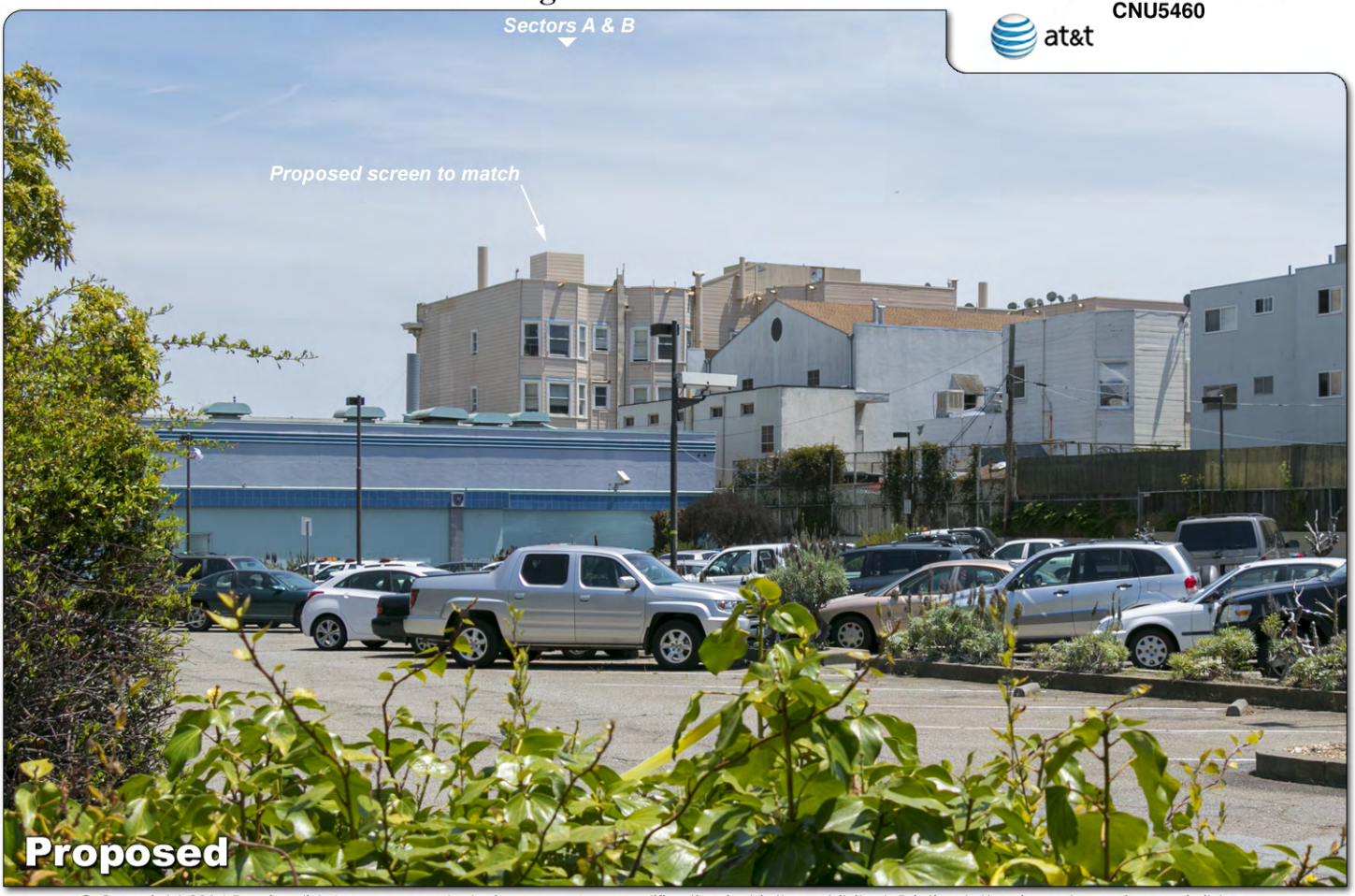
Photosimulation of the view looking southwest along Fillmore St.



Photosimulation of the view looking southeast from Turk St.

Fillmore & Golden Gate
1101 Fillmore St
San Francisco, CA, 94115
CNU5460

at&t



AT&T Mobility • Base Station No. CNU5460
1101 Fillmore Street • 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 personal wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. CNU5460) located at 1101 Fillmore Street in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted an 11-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such 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
WiFi (and unlicensed uses)	2–6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

Checklist

Reference has been made to information provided by AT&T, including construction drawings by Streamline Engineering and Design, Inc., dated July 19, 2016. It should be noted that the calculation results in this Statement include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operations.

1. *The location, identity, and total number of all operational radiating antennas installed at this site.*

AT&T had installed three directional panel antennas above the roof of the four-story mixed-use building located at 1101 Fillmore Street in San Francisco. Located on the same building were three similar antennas for use by Sprint, also installed above the roof.

2. *List all radiating antennas located within 100 feet of the site that could contribute to the cumulative radio frequency energy at this location.*

There are reported no other WTS facilities within 100 feet of the site.

3. *Provide a narrative description of the proposed work for this project.*

AT&T proposes to relocate its existing antennas and to install three additional antennas. This is consistent with the scope of work described in the drawings for transmitting elements.

4. *Provide an inventory of the make and model of antennas or transmitting equipment being installed or removed.*

No antennas are to be removed. AT&T proposes to relocate its three existing CommScope Model SBNHH-1D65A antennas into two view screen enclosures to be constructed 7 feet back from the roof parapet on the north and east faces of the building. AT&T proposes to install three Quintel Model QS4658-3 antennas, next to each of the relocated antennas. The six antennas would employ up to 4° downtilt, would be mounted at an effective height of about 54 feet above ground, 6½ feet above the roof, and would be oriented in pairs toward 20°T, 110°T, and 260°T.

Presently located on the building are similar antennas for use by Sprint, assumed for the limited purpose of this study to be CommScope Model DHHTT65B-3XR directional panel antennas, employing 2° downtilt and mounted at an effective height of about 55½ feet above ground, 8 feet above the roof.

Also located on the building are antennas previously used by MetroPCS/T-Mobile; these were non-operational at the time of the visit.*

5. *Describe the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level. This description may be based on field measurements or calculations.*

The maximum existing RF level for a person on the roof near the antennas was measured* to exceed the applicable occupational exposure limit; suitable mitigation measures had been implemented. The maximum existing RF level for a person at ground near the site was measured* to be 0.0018 mW/cm^2, which is 0.90% of the most restrictive public limit.

6. *Provide the maximum effective radiated power per sector for the proposed installation. The power should be reported in watts and reported both as a total and broken down by frequency band.*

The maximum effective radiated power proposed by AT&T in any direction is 5,250 watts, representing simultaneous operation at 1,060 watts for WCS, 2,480 watts for PCS, 1,180 watts for cellular, and 530 watts for 700 MHz service. For the limited purpose of this study the maximum effective radiated power by Sprint in any direction is assumed to be 7,770 watts, representing simultaneous operation at 1,440 watts for BRS, 5,900 watts for PCS, and 430 watts for SMR service.

* August 18, 2015, using calibrated Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 Isotropic Electric Field Probe (Serial No. F-0034).

7. *Describe the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area.*

The maximum calculated cumulative level at any nearby building is 3.7% of the public limit; this occurs at El-Bethel Baptist Church, located immediately adjacent to the west on Fillmore Street. The maximum calculated cumulative level at the second-floor elevation of any nearby residence is 1.8% of the public exposure limit; this occurs at the apartment building about 100 feet away to the west, located at 1340 Golden Gate Avenue.

8. *Report the estimated cumulative radio frequency fields for the proposed site at ground level.*

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation by itself is calculated to be 0.0064 mW/cm^2, which is 1.1% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be less than 2.0 % of the applicable public limit.

9. *Provide the maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas.*

The three-dimensional perimeters of RF levels equal to the public and occupational exposure limits are calculated to extend up to 47 and 17 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this does not reach any publicly accessible areas.

10. *Provide a description of whether or not the public has access to the antennas. Describe any existing or proposed warning signs, barricades, barriers, rooftop striping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards.*

It is recommended that barricades be erected, as shown in Figure 1, to preclude inadvertent access by unauthorized persons to areas in front of the antennas. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access to the structure, including employees and contractors of the wireless carriers and of the property owner. No access within 17 feet directly in front of the AT&T antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that "Worker Notification Areas" be marked with yellow paint stripes and that "Prohibited Access Areas" be marked with red paint stripes on the roof of the building, as shown in Figure 1, to identify areas within which exposure levels are calculated to exceed the FCC public and

occupational limits, respectively. It is recommended that explanatory signs† be posted at the roof access door, on the barricades, at the edge of the red-striped areas, and on the face of the antenna enclosures in front of the antennas, readily visible from any angle of approach to persons who might need to work within that distance. Similar measures should already be in place for Sprint; appropriate mitigation for that carrier has not been determined as part of this study.

11. Statement of authorship and qualification.

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

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the proposed operation of the AT&T Mobility base station located at 1101 Fillmore Street in San Francisco, California, can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Erecting barricades is recommended to establish compliance with public exposure limits; training authorized personnel, marking roof areas, and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

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

August 24, 2016

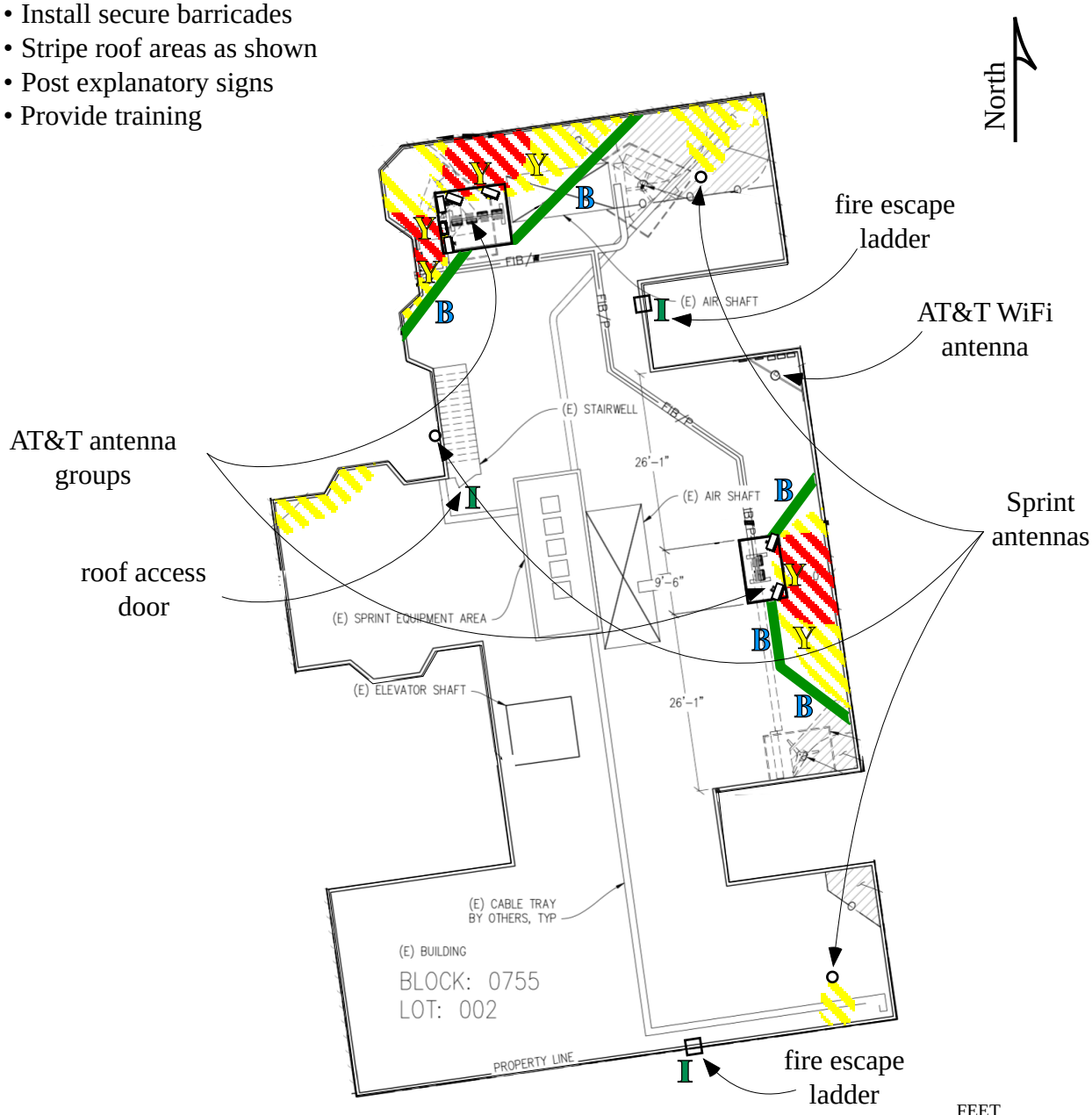
† Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (*e.g.*, a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter; the San Francisco Department of Public Health recommends that all signs be written in English, Spanish, and Chinese.

AT&T Mobility • Base Station No. CNU5460
1101 Fillmore Street • San Francisco, California

Calculated Cumulative RF Exposure Levels on Roof

Recommended Mitigation Measures for AT&T

- Install secure barricades
- Stripe roof areas as shown
- Post explanatory signs
- Provide training



Notes: See text.
Base drawing from Streamline Engineering an dDesign, Inc., dated July 19, 2016.
Calculations performed according to OET Bulletin 65, August 1997.
Inactive antennas for use by MetroPCS/T-Mobile not shown.

Legend:	Less Than Public	Exceeds Public	Exceeds Occupational	Exceeds 10x Occupational
Striping color	blank	yellow	red	N/A
Sign type	I - Green INFORMATION	B - Blue NOTICE	Y - Yellow CAUTION	O - Orange WARNING
Barricades shown as green lines				

San Francisco City and County
Department of Public Health

Environmental Health Section

Edwin M. Lee, ***Mayor***
Barbara Garcia, ***Director of Health***

Stephanie K.J. Cushing, MSPH, CHMM, REHS
Director of Environmental Health

Review of Cellular Antenna Site Proposals

Project Sponsor : *AT&T Wireless* **Planner:** *Liz Watty*

RF Engineer Consultant: *Hammett & Edison, Inc* **Phone Number:** *(707) 996-5200*

Project Address/Location: *1101 Fillmore St*

Site ID: *177* **SiteNo.:** *CNU5460* **Report Dated:** *8/24/2016*

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 Sitting 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, identity and total number of all operational radiating antennas installed at this site was provided. (WTS-FSG, Section 10.4.1, Section 11, 2b)

Number of Existing Antennas: **6**

X 2. A list of all radiating antennas located within 100 feet of the site which could contribute to the cumulative radio frequency energy at this location was provided. (WTS-FSG, Section 10.5.2)

◉ Yes ○ No

X 3. A narrative description of the proposed work for this project was provided. The description should be consistent with scope of work for the final installation drawings. (WTS-FSG, Section 10)

◉ Yes ○ No

X 4. An inventory of the make and model of antennas or transmitting equipment being installed or removed was provided. The antenna inventory included the proposed installation height above the nearest walking/working surface, the height above ground level and the orientations of the antennas. (WTS-FSG, Section 10.5.2)

◉ Yes ○ No

X 5. A description of the existing radio frequency energy environment at the nearest walking/working surface to the antennas and at ground level was provided. A description of any assumptions made when doing the calculations was also provided. (WTS-FSG, Section 10.4.1a, Section 10.4.1c, Section 10.5)

◉ Yes ○ No

X 6. The maximum effective radiated power per sector for the proposed installation was provided along with the frequency bands used by the antennas. (WTS-FSG, Section 10.1.2, Section 10.5.1)

Maximum Effective Radiated Power: **5250** Watts

X 7. Based on the antenna orientation, the maximum cumulative predicted radio frequency energy level for any nearby publicly accessible building or area was provided. (WTS-FSG, Section 10.4, Section 10.5.1)

Maximum percent of applicable FCC public standard at the nearest building or structure: **3.7** %

Distance to this nearby building or structure: _____ feet

X 8. The estimated maximum cumulative radio frequency fields for the proposed site at ground level. (WTS-FSG, Section 10.5)

Maximum RF Exposure: **0.0064** mW/cm^2 Maximum RF Exposure Percent: **1.1** %

X 9. The maximum distance (in feet) the three dimensional perimeter of the radio frequency energy level equal to the public and occupational exposure limit is calculated to extend from the face of the antennas was provided. Any potential walking/working surfaces exceeding regulatory standards were identified. (WTS-FSG, Section 10.9.2)

☑ Public Exclusion Area — Public Exclusion In Feet: **47**

☑ Occupational Exclusion Area — Occupational Exclusion In Feet: **17**

X 10. A description of whether or not the public has access to the antennas was provided. A description was also provided of any existing or proposed warning signs, barricades, barriers, rooftop stripping or other safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. All signs will be provided in English, Spanish and Chinese. (WTS-FSG, Section 9.5, Section 10.9.2)

◉ Yes ○ No

X 11. Statement regarding the engineer who produced the report and their qualifications was provided. The engineer is licensed in the State of California. (WTS-FSG, Section 11,8)

◉ Yes ○ No

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 CFR47 1.1310 **Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.**

Comments:

There are 6 antennas existing operated by AT&T Wireless and Sprint installed on the roof top of the building at 1101 Fillmore St. Existing RF levels at ground level were around .9% of the FCC public exposure limit. No other antennas were observed within 100 feet of this site. AT&T Wireless proposes to relocate the 3 existing antennas and install 3 new antennas. The antennas are mounted at a height of 54 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.0064 mW/sq cm., which is 1.1 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 47 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Barricades to be provided around rooftop areas exceeding the FCC public exposure limit. Yellow striping and red striping to be provided on rooftop surfaces that exceed the FCC public exposure limit, and FCC occupational exposure limit, respectively. Workers should not have access to within 17 feet of the front of the antennas while they are in operation.

___ **Not Approved**, additional information required.

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

1 Hours spent reviewing

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

Dated: 10/31/2016

Signed: 

Larry Kessler
Environmental Health Management Section
San Francisco Dept. of Public Health
1390 Market St., Suite 210,
San Francisco, CA. 94102
(415) 252-3841

AT&T Mobility
430 Bush St. 5th Floor
San Francisco, CA 94108

March 10, 2016

Seema Adina, Planner
San Francisco Department of Planning
1650 Mission Street, Suite 400
San Francisco, CA 94103

Re: Community Meeting for proposed AT&T Mobility facility at 1101 Fillmore Street (CNU5460)

Dear Seema,

AT&T representatives held a community meeting on Tuesday, March 10th at the Western Addition Branch Library, 1550 Scott Street, San Francisco, CA. The purpose of the meeting was to notify residents of AT&T's plans to add three additional panel antennas to its existing site at 1101 Fillmore Street.

In attendance from AT&T were the following:

Cammy Blackstone – AT&T External Affairs

Eric Lentz – Permit Me

Rajat Mather – Hammett & Edison

Luis Cuadra – BergDavis Public Affairs

Two community members attended the meeting. I provided an overview of the proposal and the City's approval process. There was a general discussion concerning health-related concerns resulting from the installation of the new antennas. Raj Mather reviewed the safety standards and satisfactorily answered all questions. AT&T also offered to conduct RF readings at the homes of concerned residents.

One of the community members asked what benefits the community could expect to receive from the upgrade. Cammy Blackstone responded, AT&T customers would receive better service which also serves public safety. She further explained that AT&T was a generous contributor to many philanthropic organizations, including Kimochi Senior Citizen Center and Students Rising Above.

Community members also asked how many other carriers had wireless facilities in the vicinity and what was the location of AT&T's nearest wireless facility.

Copies of the signed community meeting affidavit, sign in sheet, and meeting notice are attached.

Sincerely,

Eric Lentz, Land Use Consultant
Permit Me, Inc.
For AT&T Mobility
Cell: 805-895-4394
Email: ericlentz@permitme.net

AT&T Mobility
430 Bush St. 5th Floor
San Francisco, CA 94108

Affidavit of Conducting a Community Outreach Meeting, Sign-in Sheet and Issues/Responses submittal

I, Eric Lentz, do hereby declare as follows:
(print name)

1. I have conducted a **Community Outreach Meeting** for the proposed new construction or alteration prior to submitting a building permit in accordance with Planning Commission Pre-Application Policy.

2. The meeting was conducted at Western Addition Branch Library, 1550 Scott Street
(Meeting Location)

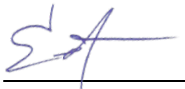
on March 10, 2016 from 6:00pm – 6:45pm
(Date) (Time)

3. I have included the **mailing list, meeting initiation, sign-in sheet, issue/response summary, and reduced plans** with the Conditional Use 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, March 10, 2016 IN SAN FRANCISCO



Signature

Eric W. Lentz
Name (type or print)

Agent for AT&T Mobility
Relationship to Project, e.g. Owner, Agent
(if Agent, give business name and profession)

1101 Fillmore Street
Project Address

NOTICE OF COMMUNITY OUTREACH MEETING ON A PROPOSED MODIFICATION TO AN EXISTING WIRELESS COMMUNICATION FACILITY IN YOUR NEIGHBORHOOD

To: Neighborhood Groups and Neighbors & Owners within 500' radius of 1101 Fillmore Street

Meeting Information
Date: Thursday March 10, 2016
Time: 6:00 p.m.
Where: Western Addition Branch Library
1550 Scott Street
San Francisco, CA 94115

Site Information
Address: 1101 Fillmore Street
Block/Lot: 0755/002
Zoning: NC-3

Applicant
AT&T Mobility

Contact Information
AT&T Mobility Hotline
(415) 646-0972

AT&T Mobility is proposing to modify an existing wireless communication facility at 1101 Fillmore Street needed by AT&T Mobility as part of its San Francisco wireless network. AT&T Mobility proposes to modify the existing facility by increasing LTE service, which will include installing three new antennas within faux vent pipes. Plans and photo simulations will be available for your review at the meeting. You are invited to attend an informational community meeting located at Wester Addition Branch Library at 1550 Scott Street on Thursday, March 10, 2016, at 6:00 p.m. to learn more about the project.

If you have any questions regarding the proposal and are unable to attend the meeting, please contact the AT&T Mobility Hotline at (415) 646-0972 and an AT&T Mobility specialist will return your call. Please contact Seema Adina, staff planner with the City of San Francisco Planning Department at (415) 558-6378 if you have any questions regarding the planning process.

NOTE: If you require an interpreter to be present at the meeting, please contact our office at (415) 646-0972 no later than 5:00pm on Friday, March 4, 2016 and we will make every effort to provide you with an interpreter.

NOTIFICACIÓN DE REUNIÓN DE ALCANCE COMUNITARIO SOBRE MODIFICACIÓN PROPUESTA A UNA INSTALACIÓN DE COMUNICACIONES INALÁMBRICAS PROPUESTA EN SU VECINDARIO

Para: Grupos del vecindario, vecinos y propietarios dentro de un radio de 500' en 1101 Fillmore Street

Información de la reunión
Fecha: Jueves 10 de marzo de 2016
Hora: 6:00 p.m.
Dónde: Western Addition Branch Library
1550 Scott Street
San Francisco, CA 94115

Información del lugar
Dirección: 1101 Fillmore Street
Cuadra/Lote: 0755/002
Zonificación: NC-3

Solicitante
AT&T Mobility

Información de contacto
Línea directa de AT&T Mobility
(415) 646-0972

AT&T Mobility propone una modificación de la instalación de comunicaciones inalámbricas actual en 1101 Fillmore Street necesaria para AT&T Mobility como parte de su red inalámbrica en San Francisco. AT&T Mobility propone modificar la instalación existente aumentando el servicio de LTE, que incluirá instalar tres antenas nuevas dentro de tuberías de ventilación falsas. Habrá planos y fotos disponibles para que usted los revise en la reunión. Se lo invita a asistir a una reunión informativa de la comunidad que se realizará en Wester Addition Branch Library, 1550 Scott Street, el jueves 10 de marzo de 2016, a las 06:00 p. m., para obtener más información sobre el proyecto.

Si tiene preguntas relacionadas con la propuesta y no puede asistir a la reunión, por favor llame a la Línea Directa de AT&T Mobility, (415) 646-0972, y un especialista de AT&T Mobility le devolverá el llamado. Por favor, contacte a Seema Adina, planificadora del Departamento de Planificación de la Ciudad de San Francisco al (415) 558-6378 si tiene alguna pregunta relaciona da con el proceso de planificación.

NOTA: Si necesita que un intérprete esté presente en la reunión, por favor, contacte a nuestra oficina al (415) 646-0972 el viernes 4 de marzo de 2016 antes de las 5:00 p.m., y haremos todos lo posible para proporcionarle un intérprete.

社區推廣會議通知：對您小區內現有的無線通信設備進行修改的提議

致：在菲爾莫爾（Fillmore）街 1101 號 500 英尺範圍內的社區團體及鄰居和業主

會議信息
日期： 2016 年 3 月 10 日星期四
時間： 下午 6 點
地點： Western Addition 分支圖書館
斯科特（Scott）街1550號
加利福尼亞州舊金山，郵編：94115

場地信息：
地址： 菲爾莫爾街 1101 號
街段/區 0755/002
區劃 NC-3

申請人
AT&T 移動

聯繫方式
AT&T 移動熱線
(415)646-0972

AT&T 移動提議修改目前位於菲爾莫爾街1101號的無線通信設備，備為舊金山無線網絡的一部分，滿足 AT&T 移動的需求。AT&T 移動提議增加LTE服務、修改現有設備，這包括在人造通氣管內安裝三個新天線。將在會上向您展示計劃內容及模擬圖片，供您審閱。我們邀請您參加在 Wester Addition 分支圖書館召開的信息性社區會議，會議地址為斯科特街1550號，時間為2016年3月10日星期四下午6點，從而了解更多關於該項目的信息。

您如有任何關於該提議的問題，但無法出席會議，請撥打 AT&T 移動熱線：(415) 646-0972，AT&T 移動的專業人員將回复您的電話。如果您對規劃過程有任何問題，請撥打電話(415) 558-6378，聯繫舊金山市規劃部的規劃工作人員 Seema Adina。

注：如果您在會議期間需要一名口譯人員在場，請在 2016 年 3 月 4 日星期五下午 5 點前聯繫我們的辦公室，聯繫電話：(415) 646-0972，我們將盡全力為您提供一名口譯人員。

PLEASE PRINT CLEARLY

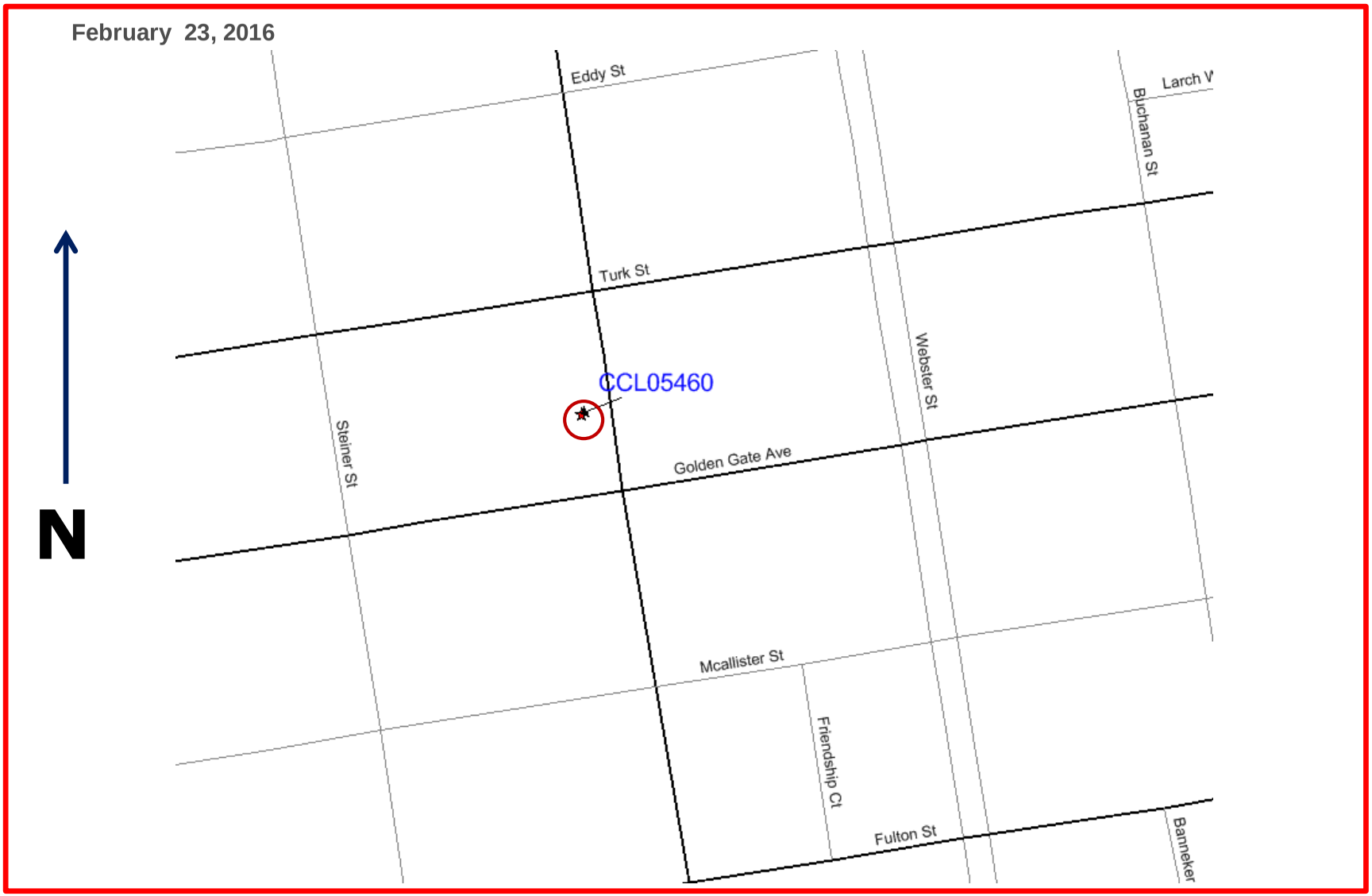
AT&T Wireless Mobility Community Meeting at 1101 Fillmore Street

March 10, 2016

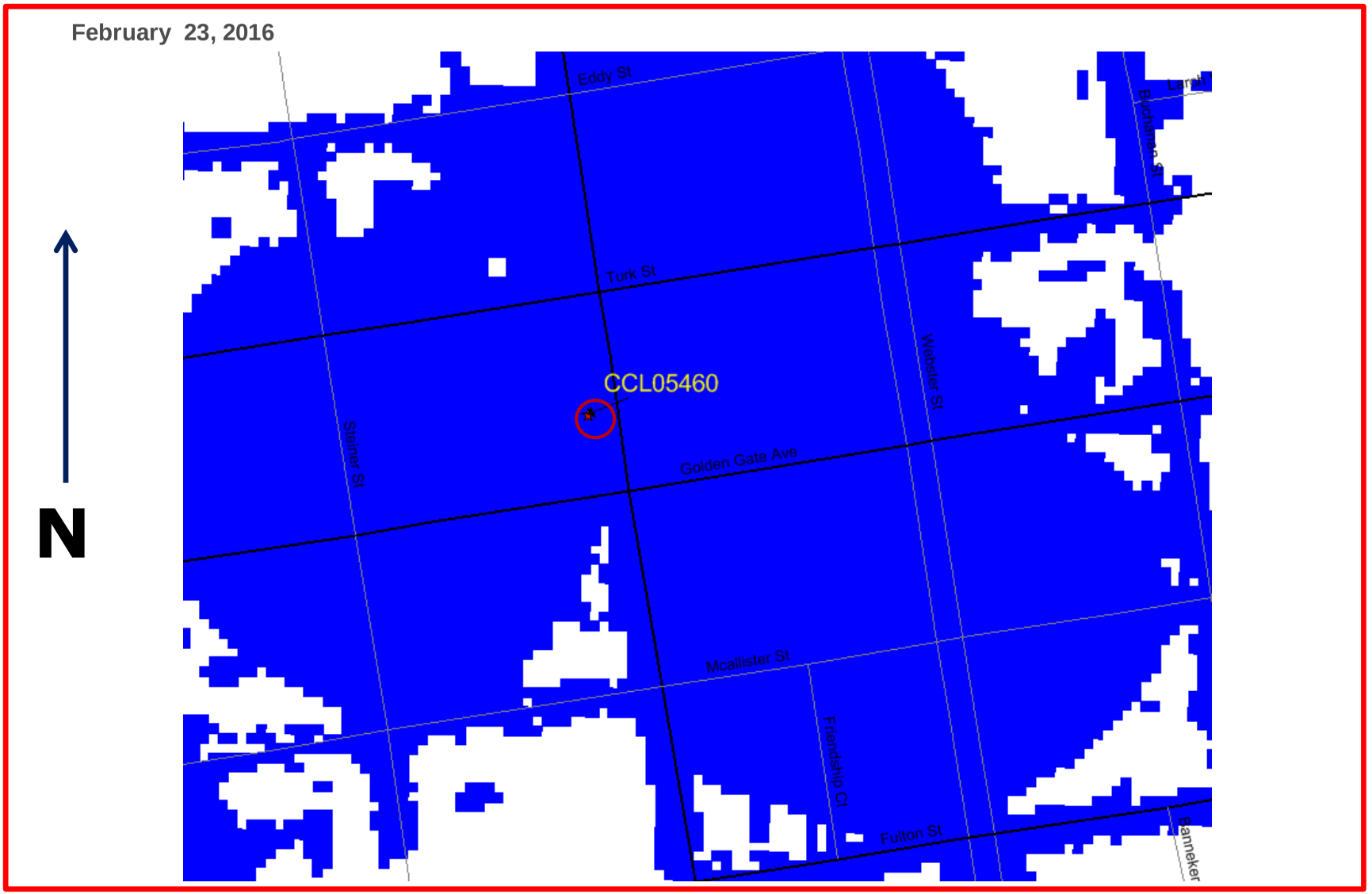
NAME	ADDRESS	PHONE	EMAIL
G Brooks	1240 Fillmore St	—	—
Chris Edgerly	861 Golden Gate	—	—

Community Meeting Notice Posting

Indoor LTE 4G High Band(WCS) Service Coverage BEFORE Antenna Mods – CCL05460

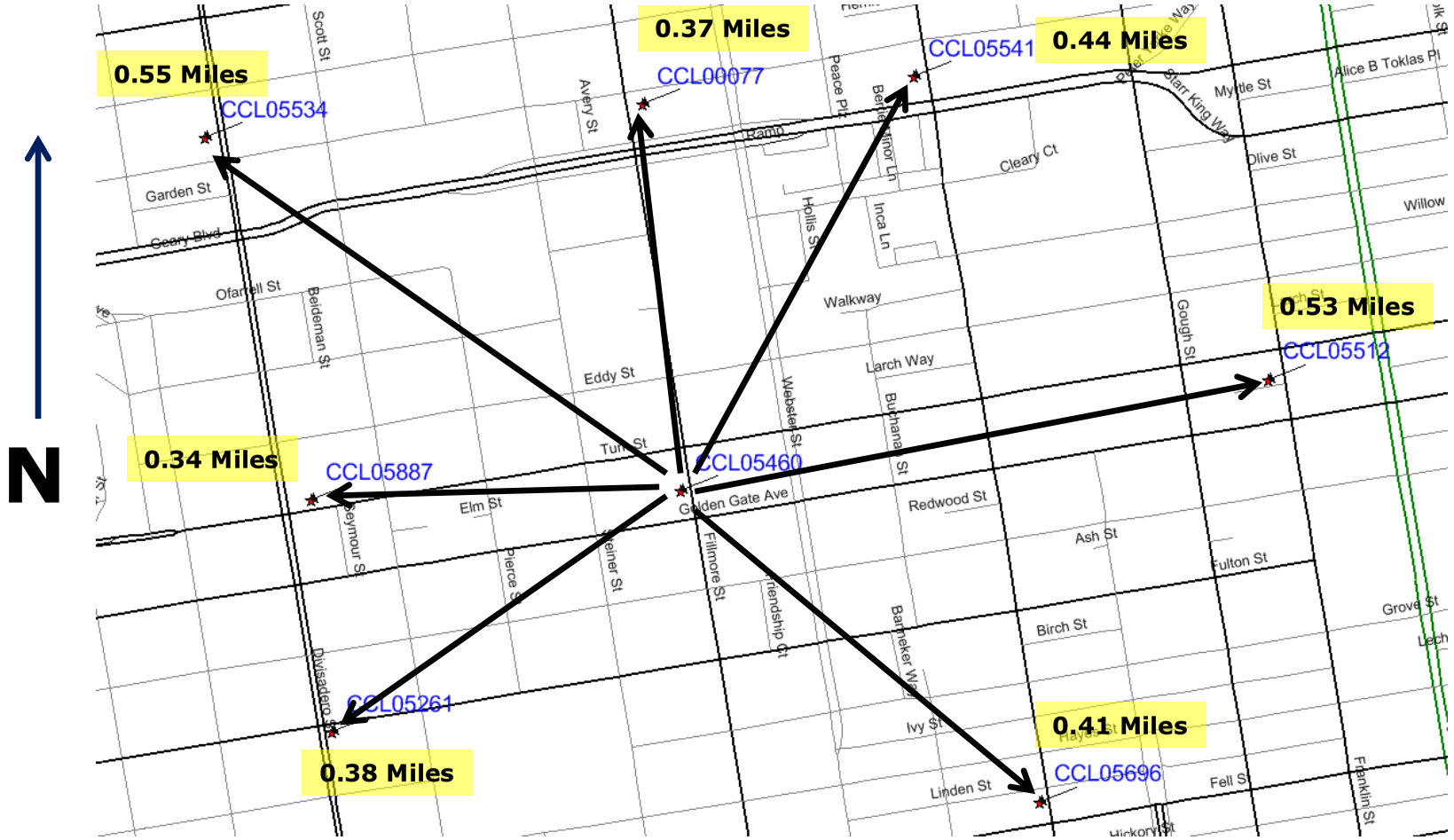


Indoor LTE 4G High Band(WCS) Service Coverage AFTER Antenna Mods – CCL05460



Surrounding On Air sites

February 23, 2016



HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
BROADCAST & WIRELESS

WILLIAM F. HAMMETT, P.E.
STANLEY SALEK, P.E.
ROBERT P. SMITH, JR.
RAJAT MATHUR, P.E.
ANDREA L. BRIGHT, P.E.
NEIL J. OLIJ, P.E.
BRIAN F. PALMER

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

DANE E. ERICKSEN, P.E.
CONSULTANT

BY E-MAIL VP347Q@ATT.COM

March 18, 2016

Ms. Veneranda Pogue
AT&T Mobility
430 Bush Street
San Francisco, California 94108-3735

Dear Randi:

As requested, we have conducted the review required by the City of San Francisco of the coverage maps that AT&T Mobility will submit as part of its application package for proposed modifications to its existing base station located at 1101 Fillmore Street (Site No. CCL05460). This is to fulfill the submittal requirements for Planning Department review.

Executive Summary

We concur with the maps provided by AT&T. The maps provided to show the before and after conditions reflect the carrier's present and post-installation indoor coverage.

AT&T has reportedly installed three Andrew Model SBNHH-1D65A directional panel antennas within three cylindrical enclosures, configured to resemble vents, above the roof of the four-story mixed-use building located at 1101 Fillmore Street. AT&T proposes to provide 2300 MHz Wireless Communication Service ("WCS") from the site by installing three Quintel Model QS4658-3 directional panel antennas within three new cylindrical enclosures next to its existing antennas relocating its two existing antennas from the north end of the roof to an area closer to the northwest corner of the roof. The six antennas would be mounted with up to 4° downtilt at an effective height of about 53 feet above ground, 5 feet above the roof, and would be oriented in pairs (one of each type) toward 20°T, 110°T, and 260°T. The maximum effective radiated power in any direction would be 6,510 watts, representing simultaneous operation at 2,120 watts for WCS, 2,960 watts for PCS, 900 watts for cellular, and 530 watts for 700 MHz service; no operation on AWS frequencies is presently proposed from this site.

AT&T provided for review a pair of coverage maps, dated February 23, 2016, attached for reference. The maps show AT&T's WCS indoor coverage in the area before and after the site modifications. Note that no blue appears on the before map as AT&T claims no existing WCS coverage in the vicinity of the site. The after WCS map shows acceptable indoor coverage, colored in blue.

e-mail: **bhammett@h-e.com**
Delivery: **470 Third Street West • Sonoma, California 95476**
Telephone: **707/996-5200 San Francisco • 707/996-5280 Facsimile • 202/396-5200 D.C.**

We undertook a two-step process in our review. As a first step, we obtained information from AT&T on the software and the service thresholds that were used to generate its coverage maps. This carrier uses commercially available software to produce the maps. The outdoor service thresholds that AT&T uses to estimate indoor service are in line with industry standards, similar to the thresholds used by other wireless service providers.

As a second step, we conducted our own measurements of the actual AT&T WCS signal strength in the vicinity of the site. Our fieldwork was conducted on March 17, 2016, between 1:30 PM and 2:00 PM. The field measurements were conducted using a Narda Type SRM-3000 Selective Radiation Meter with Type BN-3501 Isotropic Electric Field Probe (Serial No. F-0042) at several locations near the site that AT&T had indicated would receive WCS service.

Based on the measurement data, we conclude that the AT&T WCS coverage map showing the service area without the proposed modifications represents areas of deficiency in the carrier's present indoor WCS coverage. The map submitted to show the after coverage with WCS operational was reportedly prepared using commercially available software and is expected to illustrate accurately the improvements in coverage.

We appreciate the opportunity to be of service. Please let us know if any questions arise on this matter.

Sincerely yours,

William F. Hammett, P.E.

jp

Enclosures

cc: Mr. Eric Lentz – BY E-MAIL LENTZPLANNING@GMAIL.COM
Ms. Lisa Nahmason – BY E-MAIL LNAHMANSON@PERMITME.NET

CONDITIONAL USE AUTHORIZATION: 2016-004865CUA

at&t

FILLMORE & GOLDEN GATE AVE
CNU5460 / CCL05460

INITIATIVE: LTE WCS
PACE ID#: MRSFR019391
PA#: 3701843633
LTE#: CCL05460
UMTS#: CNU5460
GSM#: CN5460
FA LOCATION#: 10101206
USID#: 24181
RFDS VER#: 4.00_04/17/2015

PROJECT DESCRIPTION

A MODIFICATION TO AN (E) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF:

- INSTALLING (2) (N) FRP SCREENS, PAINT & TEXTURE TO MATCH (E) BUILDING
- RELOCATING (3) (E) AT&T ANTENNAS INSIDE (N) FRP SCREENS & REMOVING (3) (E) ANTENNA MOUNTS W/ RADOMES
- INSTALLING (3) (N) AT&T ANTENNAS INSIDE (N) FRP SCREENS
- INSTALLING (3) (N) RRUS–32 UNITS
- REMOVING & REPLACING (3) (E) DC2 SURGE SUPPRESSORS W/ (3) (N) DC6 SURGE SUPPRESSORS
- INSTALLING (N) DC12 SURGE SUPPRESSOR INSIDE (E) 19" RACK
- REMOVING & REPLACING (E) DUL UNIT W/ (2) (N) DUS–41 UNITS INSIDE (E) 19" RACK
- RELOCATING (6) (E) RRUS–11 UNITS & (6) (E) TMAs BEHIND (N) FRP SCREENS

PROJECT INFORMATION

SITE NAME:	FILLMORE & GOLDEN GATE AVE	SITE #:	CNU5460 / CCL05460
COUNTY:	SAN FRANCISCO	JURISDICTION:	CITY OF SAN FRANCISCO
BLOCK/LOT:	0755–002	POWER:	PG&E
SITE ADDRESS:	1101 FILLMORE ST SAN FRANCISCO, CA 94115	TELEPHONE:	AT&T
CURRENT ZONING:	NCT – FILLMORE ST NEIGHBORHOOD COMMERCIAL TRANSIT DISTRICT		
CONSTRUCTION TYPE:	II, NO SPRINKLERS		
OCCUPANCY TYPE:	U, UNMANNED COMMUNICATIONS FACILITY		
PROPERTY OWNER:	GOLDEN GATE & FILLMORE ASSOCIATION LLC 1101 FILLMORE ST SAN FRANCISCO, CA 94115 ATTN: CHRIS J. DRESSEL (415) 773–0822		
APPLICANT:	AT&T 430 BUSH ST, 5TH FLOOR SAN FRANCISCO, CA 94108		
LEASING CONTACT:	ATTN: LORRIE BILLALON (510) 825–8889		
ZONING CONTACT:	ATTN: JOSEPH CAMICIA (415) 722–1183		
CONSTRUCTION CONTACT:	ATTN: AARON McCLAIN (415) 361–8705		
LATITUDE: LONGITUDE:	N 37° 46' 46.9" NAD 83 W 122° 25' 55.2" NAD 83		
AMSL:	±116'		

DESIGN CRITERIA

RISK CATEGORY: II	ROOF LIVE LOAD: N/A	FLOOR LIVE LOAD: N/A	ALLOW SOIL BEARING: N/A
WIND EXPOSURE: B	DESIGN WIND SPEED: V_{ULT}: 110 MPH, (V_{ASD}: 85 MPH)		
SITE CLASS: D	SEISMIC DESIGN CATEGORY: D	SEISMIC COMPONENT I_P: 1.0	S_{DS}: 1.001 a_p: 1.0 R_P: 2.5

VICINITY MAP

DRIVING DIRECTIONS

FROM: 430 BUSH ST, SAN FRANCISCO, CA 94108
TO: 1101 FILLMORE ST, SAN FRANCISCO, CA 94115

1.	1. HEAD EAST ON BUSH ST TOWARD CLAUDE LN	190 FT
2.	2. TAKE THE 1ST LEFT ONTO KEARNY ST	338 FT
3.	3. TAKE THE 1ST LEFT ONTO PINE ST	1.2 MI
4.	4. TURN LEFT ONTO GOUGH ST	0.2 MI
5.	5. TURN RIGHT ONTO GEARY BLVD	0.4 MI
6.	6. TURN LEFT ONTO WEBSTER ST	0.3 MI
7.	7. TURN RIGHT ONTO TURK ST	479 FT
8.	8. TAKE THE 1ST LEFT ONTO FILLMORE ST	269 FT

END AT: 1101 FILLMORE ST, SAN FRANCISCO, CA 94115

ESTIMATED TIME: 11 MINUTES ESTIMATED DISTANCE: 2.3 MILES

CODE COMPLIANCE

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

2013 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2012 INTERNATIONAL BUILDING CODE VOLUMES 1–2 AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2012 UNIFORM MECHANICAL CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2013 CITY OF SAN FRANCISCO FIRE CODE
(2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS)
2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
ANSI/EIA–TIA–222–G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B–203.4

SHEET INDEX

SHEET	DESCRIPTION	REV
T–1	TITLE SHEET	–
T–2	FIRE DEPT CHECKLIST	–
T–3	EMF REPORT	–
T–4	SIGNAGE DETAILS	–
T–5	PHOTOSIMS	–
A–1	SITE PLAN	–
A–2	EQUIPMENT PLAN	–
A–3	ANTENNA PLANS & DETAILS	–
A–4	ELEVATIONS	–
S–1	STRUCTURAL NOTES, DETAILS & PLAN	–

APPROVAL

RF

LEASING

ZONING

CONSTRUCTION

AT&T

FILLMORE & GOLDEN GATE AVE
CNU5460 / CCL05460
1101 FILLMORE ST
SAN FRANCISCO, CA 94115

ISSUE STATUS

△	DATE	DESCRIPTION	BY
	06/29/15	CD 90%	D.G.
	11/23/15	CD 100%	J.S.
	06/17/16	CLIENT REV	J.S.
	07/19/16	CLIENT REV	J.S.
	09/19/16	CLIENT REV	I.M.
	10/31/16	CLIENT REV	M.H.

DRAWN BY: D. GARCIA
CHECKED BY: S. SAVIG
APPROVED BY: J. SPORE
DATE: 10/31/16

Streamline Engineering and Design, Inc.
8445 Sierra College Blvd. Suite E Granite Bay, CA 95661
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

PRELIMINARY: NOT FOR CONSTRUCTION

KEVIN R. SORENSEN
S4469

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4430 ROSEWOOD DR, BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:
TITLE

SHEET NUMBER:
T-1

SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 1 OF 2

2.06 PERMIT APPLICATION CHECKLIST FOR CELLULAR ANTENNA SITES AND ALL EQUIPMENT SERVING THE CELLULAR ANTENNA SITE

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

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

FCC OET Bulletin 56 - Questions and Answers about Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields (August 1999)
FCC OET Bulletin 65 - Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (Ed. 97-01:August 1997)
FCC - A Local Government Official's Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance (June 2, 2000)
2010 California Building Code (2010 CBC)
2010 California Fire Code (2010 CFC)
2010 California Mechanical Code (2010 CMC)
2010 San Francisco Fire Code (2010 SFFC)
2010 NFPA 13 Automatic Sprinkler Systems
2010 NFPA 72 National Fire Alarm Code

COMPLETE — 1. Provide a description of work on the plans.
SEE T-1

COMPLETE — 2. Plans shall include plan views and elevations showing all equipment locations and cable runs.
SEE A-1 THRU A-4

COMPLETE — 3. Plans shall include antenna cut-sheets and equipment list on a drawing sheet.
SEE A-3

COMPLETE — 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).
SEE T-3

COMPLETE — 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.
SEE T-3

COMPLETE — 6. Drawings shall reflect the striped/exclusion areas per the above RF Report with a minimum radius being 1 foot.
SEE A-1

SAN FRANCISCO FIRE DEPT CHECKLIST - PAGE 2 OF 2

COMPLETE — 7. Plans shall include a quantitive 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.)
SEE T-3

COMPLETE — 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).
SEE T-4

COMPLETE — 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 (see ANSI C95.2-1982(Reference [3])-yellow or more durable color for outdoor longevity). Signage locations(s) and detail of the sign shall be included on the plans.
SEE A-1

COMPLETE — 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

COMPLETE — 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 considerations.

COMPLETE — 12. There is no guarantee that the fire department will not shutdown 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:

COMPLETE — Provide emergency shutdown procedure signage. The sign shall include the following:
SEE A-1

COMPLETE — * Emergency 24 hour/7 day a week NOC / field technician telephone number for RF shutdown.
SEE T-4

COMPLETE — * Cell site identification number.

COMPLETE — *Map to location of electrical main-electrical main shall be clearly identified with a permanent red label and white lettering.
SEE T-4

COMPLETE — *Map to location of battery cabinets and breakers-cabinets and breakers shall be clearly identified with a permanent red label and white lettering.
SEE T-4

COMPLETE — *Any other relevant information or procedures as required for the individual cellular site.

COMPLETE — * 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.
SEE T-4

COMPLETE — * The actual breaker(s) shall be a phenolic label (red background and white lettering) with lettering not less than 1/8" high.
SEE T-4

COMPLETE — * A copy of the signage shall be included on a drawing sheet.
SEE T-4

Prepared by: Jamers R. Spore, PE.
(Please include professional title and stamp)

Firm Name: STREAMLINE ENGINEERING & DESIGN, INC.
Address: 8445 SIERRA COLLEGE BLVD, SUITE E
GRANITE BAY, CA 95746
Phone Number: 1-916-660-1930

For further Information see the FCC website: http://www.fcc.gov/oet/rfsafety
or contact the
San Francisco Fire Department
1660 Mission Street, 4th Floor
San Francisco, CA 94103
(415) 558-6187

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SHEET TITLE:
FIRE DEPT CHECKLIST

SHEET NUMBER:
T-2

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 personal wireless telecommunications carrier, to evaluate proposed modifications to its existing base station (Site No. CNU5460) located at 1101 Fillmore Street in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of proposed WTS facilities or proposed modifications to such 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)	5–30 GHz	5.00 mW/cm²	1.00 mW/cm²
WiFi (and unlicensed uses)	2–6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

The site was visited by Mr. Charles Chesalis, a qualified field technician contracted by Hammett & Edison, Inc., during normal business hours on July 22, 2015, a non-holiday weekday, and reference has been made to information provided by AT&T, including construction drawings by Streamline Engineering and Design, Inc., dated June 29, 2015.

Checklist

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

AT&T had installed three directional panel antennas, reportedly Andrew Model SBNHH-1D65A, within three cylindrical enclosures, configured to resemble vents, above the roof of the four-story mixed-use building located at 1101 Fillmore Street. Also located on the building were similar antennas for use by MetroPCS (now part of T-Mobile) and Sprint. Existing RF levels for a person at ground near the site were less than 2% of the most restrictive public exposure limit. The measurement equipment used was a Wandel & Goltermann Type EMR-300 Radiation Meter with Type 8 Isotropic Electric Field Probe (Serial No. P-0036). The meter and probe were under current calibration by the manufacturer.

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

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

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

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

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 install three Quintel Model QS4658-3 directional panel antennas within three new cylindrical enclosures next to its existing antennas and to relocate its two existing antennas from the north end of the roof to an area closer to the northwest corner of the roof. The six antennas would be mounted with up to 4° downtilt* at an effective height of about 53 feet above ground, 5 feet above the roof, and would be oriented in pairs (one of each type) toward 20°T, 110°T, and 260°T. Sprint had installed three directional panel antennas high on the face of the building and MetroPCS had installed three directional panel antennas above the roof – two within a cylindrical enclosure above the northeast corner of the pool and one on the penthouse above the west side of the roof.

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

The expected operating power of the AT&T transmitters is reflected in the resulting effective radiated power given in Item 6 below; the transmitters may operate at a power below their maximum rating. The power ratings for the MetroPCS and Sprint transmitters are not known.

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

The maximum effective radiated power ("ERP") proposed by AT&T in any direction is 6,530 watts, representing simultaneous operation at 2,120 watts for WCS, 2,960 watts for PCS, 980 watts for cellular, and 530 watts for 700 MHz service; no operation on AWS frequencies is presently proposed from this site. The maximum ERPs for the MetroPCS and Sprint operations are assumed to be 3,000 and 9,000 watts, respectively.

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

The drawings show the antennas to be installed as described in Item 4 above. There was noted a taller building about 110 feet to the south.

* *Assumed for the purposes of this study.*

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 RF exposure level due to the proposed AT&T operation by itself is calculated to be 0.011 mW/cm², which is 1.4% of the applicable public exposure limit. Ambient RF levels at ground near the site are therefore estimated to be below 3.4% of the limit. The maximum calculated cumulative level at any nearby building† is 59% of the public limit. The three-dimensional perimeter of RF levels equal to the public exposure limit is calculated to extend up to 53 feet out from the antenna faces and to much lesser distances above, below, and to the sides; this includes areas of the roof of the building but does not reach any publicly accessible areas.

9. Describe proposed signage at site.

It is recommended that barricades be erected, as shown in Figure 1, to preclude public access within certain areas in front of the AT&T antennas. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access to the roof, including employees and contractors of the wireless carriers and of the property owner. No access within 19 feet directly in front of the AT&T antennas themselves, such as might occur during certain maintenance activities within the barricades, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that "Prohibited Access Areas" be marked with red paint stripes and "Worker Notification Areas" be marked with yellow paint stripes on the roof of the building in front of the antennas, as shown in Figure 1, and that explanatory signs‡ be posted at the roof access door and on the barricades, readily visible from any angle of approach to persons who might need to work within that distance. Similar measures should already be in place for the other carriers at the site; applicable keep-back distances and striping for those carriers have not been determined as part of this study.

10. Statement of authorship.

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration No. E-20309, which expires on March 31, 2017. This work has been carried out under her direction, and all statements are true and correct of her own knowledge except, where noted, when data has been supplied by others, which data she believes to be correct.

† Occurring on the roof of the adjacent building to the west.

‡ Signs should comply with OET-65 color, symbol, and content recommendations. Contact information should be provided (e.g., a telephone number) to arrange for access to restricted areas. The selection of language(s) is not an engineering matter; the San Francisco Department of Public Health recommends that all signs be written in English, Spanish, and Chinese.

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that the proposed operation of the AT&T Mobility base station located at 1101 Fillmore Street in San Francisco, California, can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Roofing barricades is recommended to establish compliance with public exposure limits; training authorized personnel, marking roof areas, and posting explanatory signs is recommended to establish compliance with occupational exposure limits.

August 7, 2015

REGISTERED PROFESSIONAL ENGINEER
ANDREA L. BRIGHT
E 20309
Exp. 3-31-2017
ELECTRICAL
STATE OF CALIFORNIA

Andrea L. Bright, P.E.
707/996-5200

Calculated RF Exposure Levels on Roof

Recommended Mitigation Measures

- Install access barricades
- Stripe roof areas as shown
- Post explanatory signs
- Provide training

Notes:
Base drawings from Streamline Engineering and Design, Inc., dated June 29, 2015.
Calculations performed according to OET Bulletin 65, August 1997.
Training should be provided for all persons requiring access within barricades.

Legend:	Less Than Public	Exceeds Public	Exceeds Occupational	Exceeds 10x Occupational
Striping color	NIA	yellow	red	NIA
Sign type	I - Green INFORMATION	B - Blue NOTICE	Y - Yellow CAUTION	O - Orange WARNING

Barricades shown as green lines

FILLMORE & GOLDEN GATE AVE

CNU5460 / CCL05460

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at&t

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PLEASANTON, CA 94588

SHEET TITLE:
EMF REPORT

SHEET NUMBER:
T-3

SIGNAGE AND STRIPING INFORMATION

1. THE FOLLOWING INFORMATION IS A GUIDELINE 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 GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.

2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS $1mWcm^2$ AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY AT&T IS $5mWcm^2$

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

4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING 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 GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

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

6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE 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 PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE 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.

7. 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.

8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.

NOTICE TO WORKERS

RADIO FREQUENCY ANTENNAS ON THIS ROOF.
PLEASE EXERCISE CAUTION AROUND ANTENNAS AND OBEY POSTED SIGNS AND/OR MARKINGS. FOR ACCESS TO RESTRICTED AREAS OR FOR FURTHER INFORMATION, PLEASE CALL 1-800-832-6662 (SITE NUMBER: CNU5460)

IN ACCORDANCE WITH FCC RULES 47 CFR 1.1310

AVISO A TRABAJADORES

EXISTEN ANTENAS DE RADIOFREQUENCIA EN ESTE TECHO. POR FAVOR USE PRECAUCION ALREDOR DE LAS ANTENAS Y OBEDEZCA A LAS ZONAS RESTRINGIDAS O PARA OBTENER MAS INFORMACION, LLAME AL TELEFONO 1-800-832-6662 (NUMERO DE SITIO: CNU5460)

DE ACUERDO A LAS REGLAS DE FCC 47 CFR 1.1310

工作人員注意

此屋宇廈頂有射頻天線裝置
在天線範圍四周務請小心,並遵照各已張貼之指示及/或標緻行事
如需進入禁區範圍或索取更多資料
請致電1-800-832-6662 此站區號: (CNU5460)

依據FCC條例第47 CFR1.1310 款執行

NOTES:

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

1 MULTI-LANGUAGE SIGN

NOTICE

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

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

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

SITE NO. CNU5460

2 TYPICAL CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.

NOTICE

GUIDELINES FOR WORKING IN RADIO FREQUENCY ENVIRONMENTS

- All personnel should have electromagnetic energy (EME) awareness training.
- All personnel entering this site must be authorized. Obey all posted signs.
- Assume all antennas are active. Before working on antennas, notify owners and disable appropriate transmitters.
- Maintain minimum 19 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.

3 TYPICAL CAUTION SIGN

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

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: 1-800-832-6662
SITE IDENTIFICATION NUMBER: CNU5460

2) DISCONNECT POWER AT MAIN SERVICE DISCONNECT:

CONTRACTOR TO SUBMIT PROPOSED WRITTEN DIRECTIONS FOR EACH OF (5) SIGNS TO PROJECT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO ORDERING SIGNS

3) DISCONNECT BACK-UP POWER AT BATTERY DISCONNECT:

CONTRACTOR TO SUBMIT PROPOSED WRITTEN DIRECTIONS FOR EACH OF (5) SIGNS TO PROJECT CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO ORDERING SIGNS

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.

4 TYPICAL DISCONNECT SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT THE FOLLOWING LOCATIONS;
1) CELL SITE EQUIPMENT ROOM DOOR
2) BATTERY LOCATION WITHIN PROXIMITY OF BATTERY DISCONNECT
3) FCC (FIRE CONTROL CENTER) ROOM WITHIN PROXIMITY OF THE FIRE ALARM PANEL
4) BUILDING'S MAIN ELECTRICAL ROOM WITHIN PROXIMITY OF THE MAIN SHUTOFF
5) THE CELL SITE MAIN ELECTRICAL DISCONNECT

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SHEET TITLE:
SIGNAGE DETAILS

SHEET NUMBER:
T-4

Photosim of the view looking northwest from Golden Gate Ave.

Photosimulation of the view looking southwest along Fillmore St.

Photosimulation of the view looking southeast from Turk St.

FILLMORE & GOLDEN GATE AVE

CNU5460 / CCL05460

1101 FILLMORE ST
SAN FRANCISCO, CA 94115

ISSUE STATUS

△	DATE	DESCRIPTION	
	06/29/15	CD 90%	D.G.
	11/23/15	CD 100%	J.S.
	06/17/16	CLIENT REV	J.S.
	07/19/16	CLIENT REV	J.S.
	09/19/16	CLIENT REV	I.M.
	10/31/16	CLIENT REV	M.H.

DRAWN BY: D. GARCIA

CHECKED BY: S. SAVIG

APPROVED BY: J. SPORE

DATE: 10/31/16

Streamline Engineering and Design, Inc.
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Contact: Kevin Sorensen Phone: 916-660-1940
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

PRELIMINARY:
NOT FOR
CONSTRUCTION

KEVIN R. SORENSEN
S4469

at&t

4430 ROSEWOOD DR. BLDG 3, 6TH FLOOR
PLEASANTON, CA 94588

SHEET TITLE:

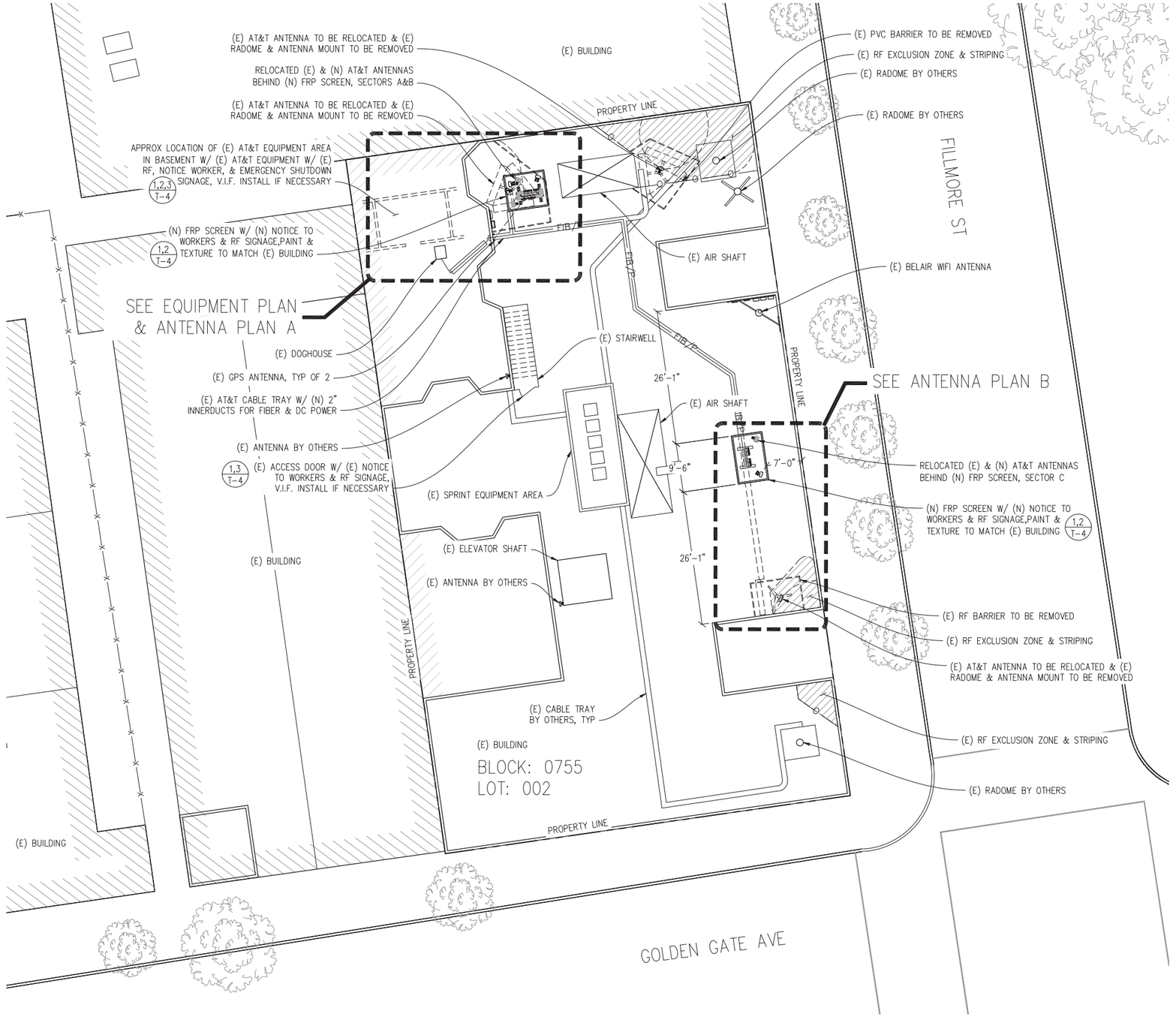
PHOTOSIMS

SHEET NUMBER:

T-5

PROJECT GENERAL NOTES

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



EXISTING BATTERIES

BATTERY TYPE:		MARATHON M12V155FT	
NUMBER OF UNITS W/BATTERIES		1	
NUMBER OF BATTERIES :		12	
MATERIAL:	ELECTROLYTE	VOLUME: 2.17 GALLONS	BATTERY TOTAL: 26.04 GALLONS
MATERIAL:	ACID	WEIGHT: 9.98 LBS	BATTERY TOTAL: 119.76 LBS
MATERIAL:	LEAD	WEIGHT: 81.0 LBS	BATTERY TOTAL: 972 LBS

NOTE: A SEPARATE PERMIT SHALL BE REQUIRED FROM S.F.F.D. IF BATTERY ELECTROLYTE EXCEEDS 50 GALLONS

SITE PLAN

1"=10'-0"

0 5' 10' 20' 30' 50'

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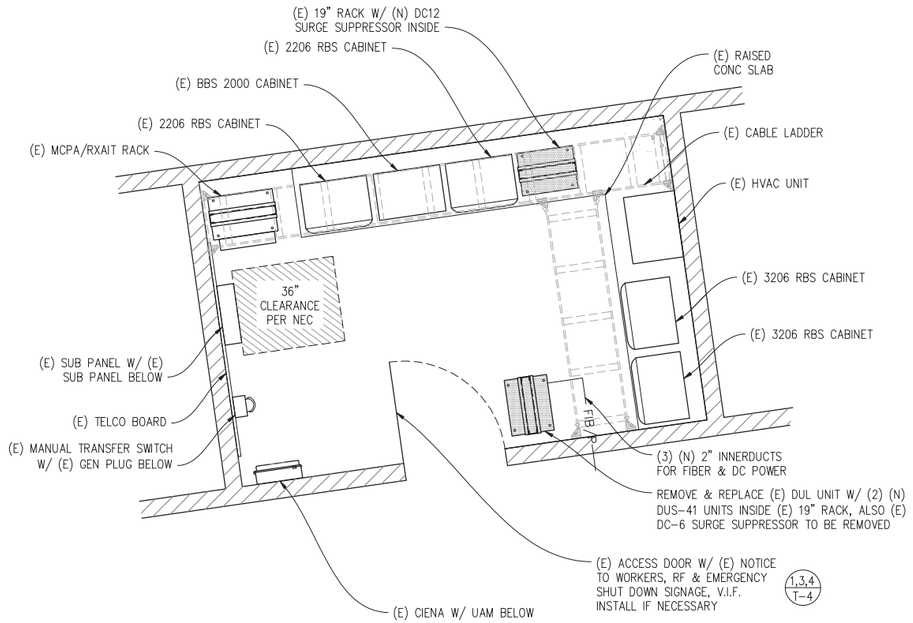
SHEET TITLE:

SITE PLAN

SHEET NUMBER:

A-1



EQUIPMENT PLAN

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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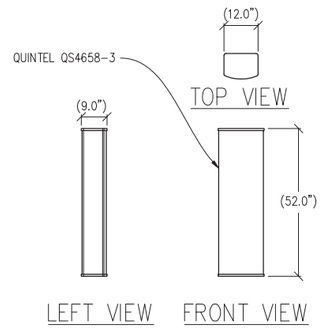
SHEET TITLE:

EQUIPMENT PLAN

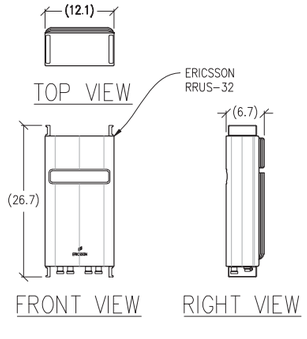
SHEET NUMBER:

A-2



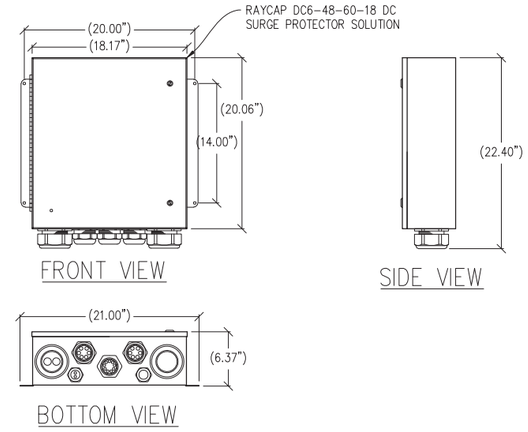
1 ANTENNA DETAIL

½"=1'-0"



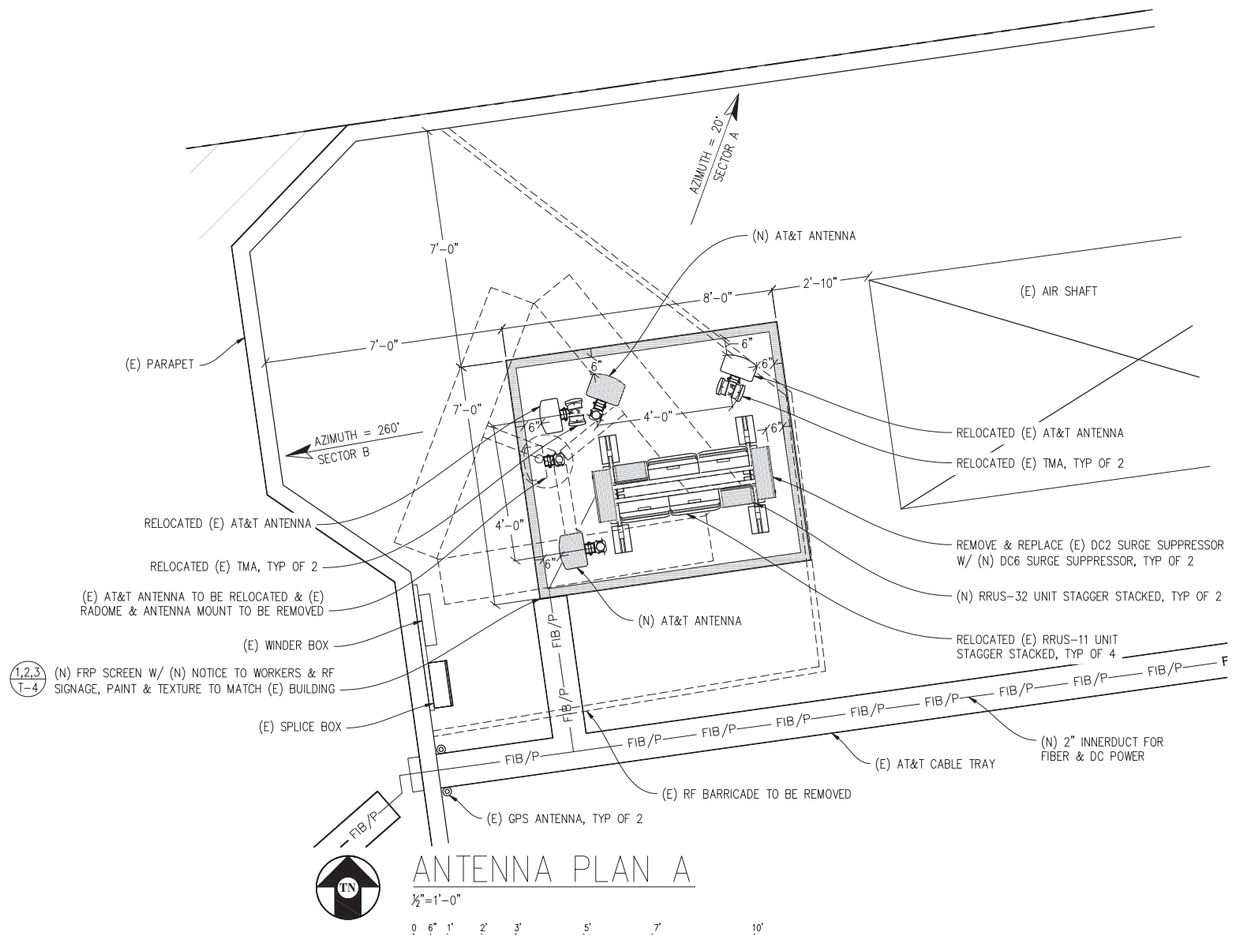
2 RRUS-32 DETAIL

1"=1'-0" MAX WEIGHT: 60 LBS



3 SURGE SUPPRESSION DETAIL

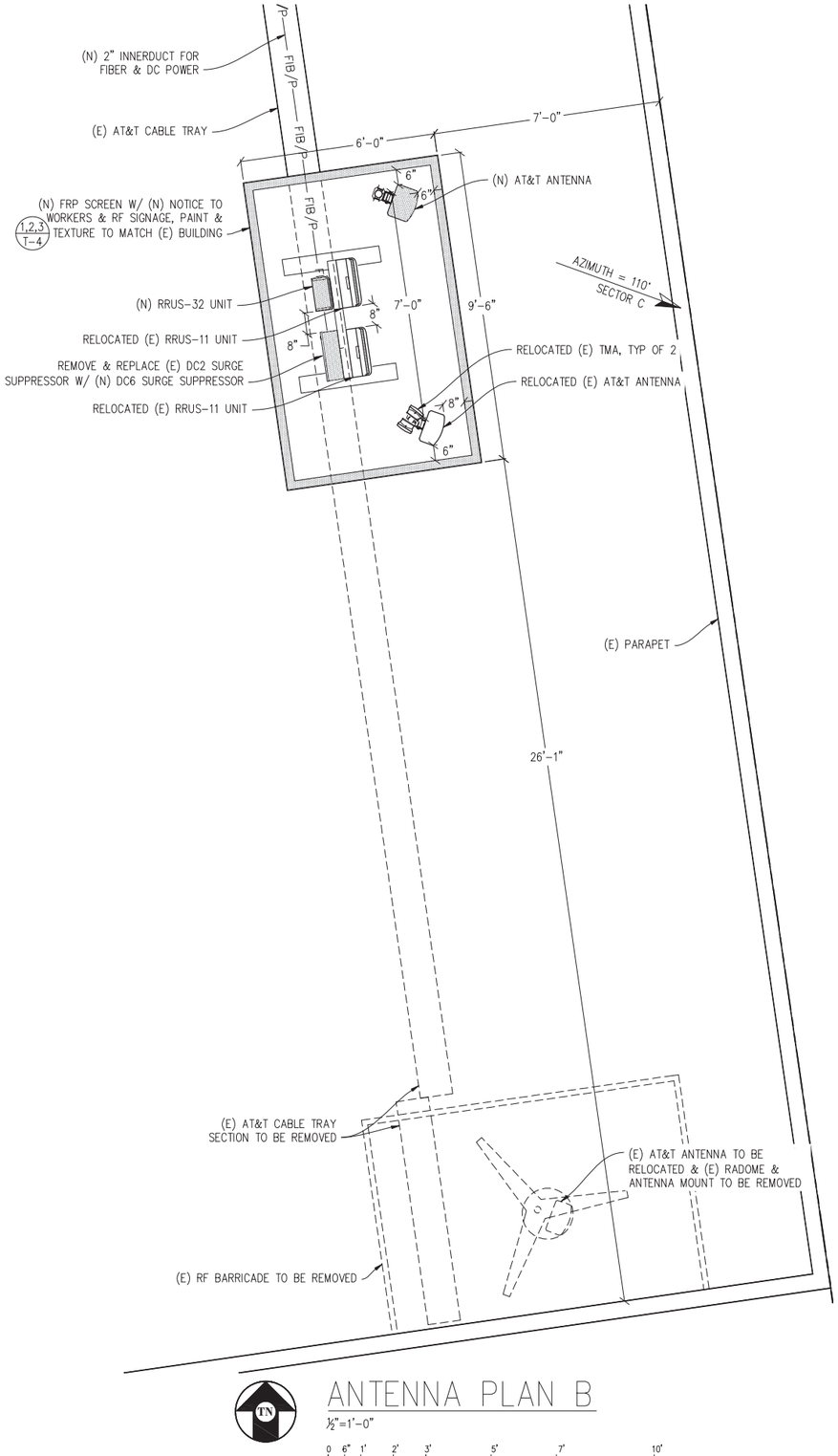
1½"=1'-0" MAX WEIGHT: 43.5 LBS



ANTENNA PLAN A

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'



ANTENNA PLAN B

½"=1'-0"

0 6" 1' 2' 3' 5' 7' 10'

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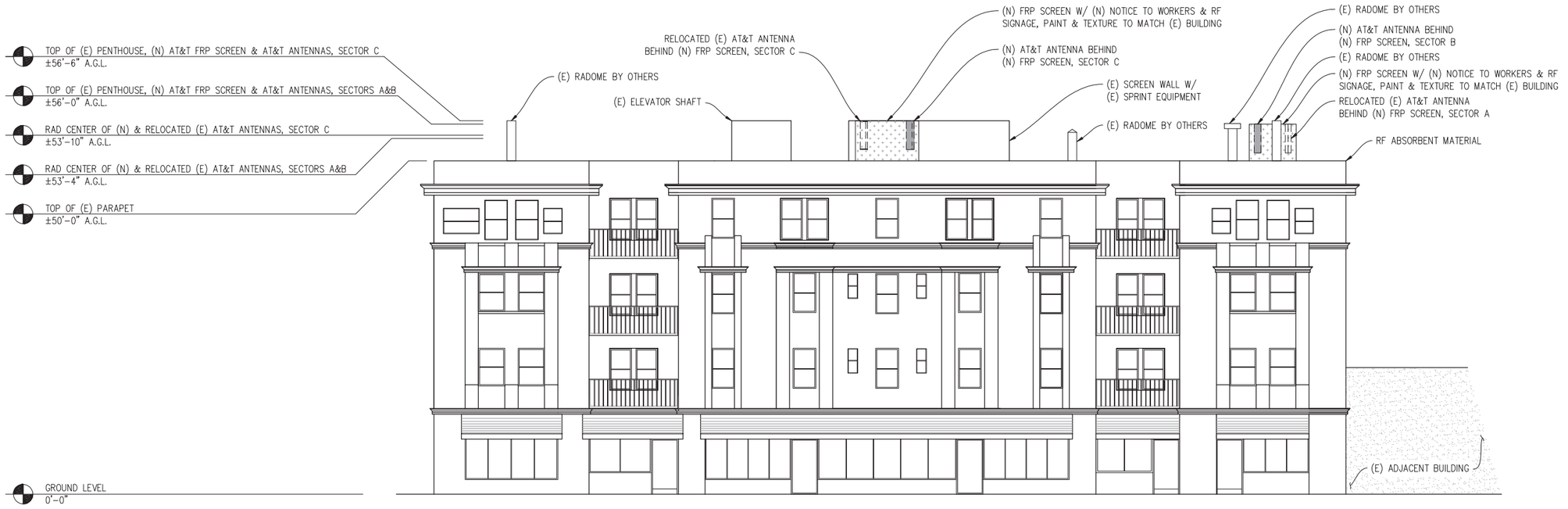
ANTENNA PLANS & DETAILS

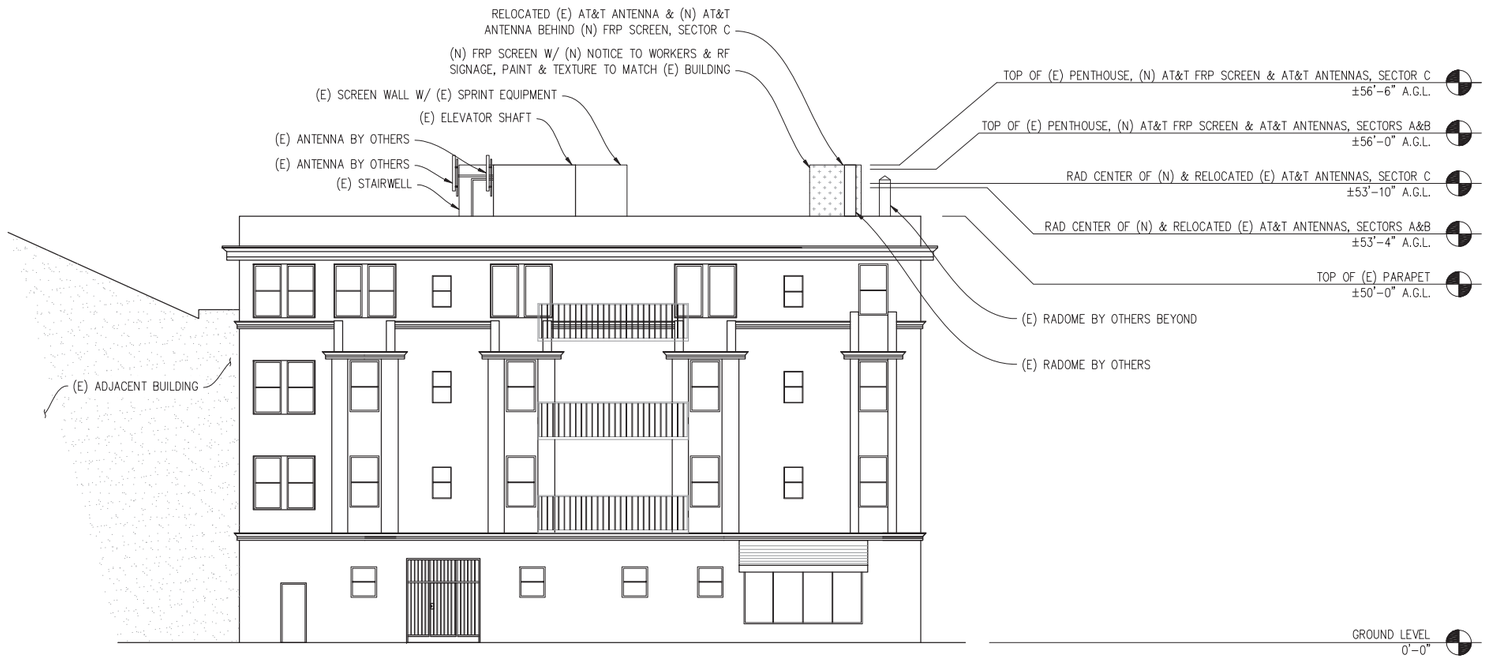
SHEET NUMBER:

A-3



EAST ELEVATION

⅛"=1'-0"



SOUTH ELEVATION

⅛"=1'-0"

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SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-4

CONSTRUCTION NOTES

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2013 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2013 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING. INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.

STRUCTURAL STEEL NOTES

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2013 CBC.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B (F_y=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
6. THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL . BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
7. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
9. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
10. AT ALL WEB STIFFENER PLATES LEAVE ¾"ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

ROOFING & WATERPROOFING NOTES:

1. CONTRACTOR SHALL JOINTLY GUARANTEE THE FINISHED INSTALLATION AS WEATHER TIGHT AND FREE DRAINING ON COMPLETION DIRECTLY TO THE BUILDING OWNER & TO THE WIRELESS CARRIER FOR ALL WORK SHOWN HEREIN.
2. ALL WORK SHALL BE PERFORMED IN SUB-UNITS SUCH THAT CUT OPEN WEATHERPROOFING SYSTEMS ARE REPAIRED PERMANENTLY OR TEMPORARILY IN DEFENSE OF ANY INCLEMENT WEATHER AS MAY OCCUR DURING CONSTRUCTION.
3. WHEREVER PENETRATION OF PROPRIETARY WEATHERPROOFING SYSTEMS OCCURS, THE CONTRACTOR SHALL EMPLOY SUBCONTRACTORS APPROVED FOR APPLICATION OF SAID SYSTEM AND WITH MINIMUM OF 3 YEARS EXPERIENCE WITH THE APPLICABLE PRODUCT(S) AND ITS(THEIR) APPLICATION (e.g. DRY-VIT, GAKO-FLEX DECKING &/OR ROOFING, SINGLE-PLY ROOFING SYSTEMS (VARIOUS), ETC.).
4. WHERE APPLICABLE THE CONTRACTOR SHALL EMPLOY THE BUILDING OWNER'S ROOFING CONTRACTOR FOR ALL PATCHWORK.
5. CONTRACTOR IS RESPONSIBLE TO INVESTIGATE ALL WEATHERPROOFING REQUIREMENTS FOR THE WORK SHOWN HEREIN PRIOR TO SUBMITTING A BID, AND SHALL NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES IN DETAILS SHOWN THAT MAY RESULT IN SUBSTANDARD WEATHERPROOFING IN THE FINISHED ASSEMBLY.

FRAMING NOTES

1. ALL JOINTS AND PENETRATIONS SHALL BE CAULKED AND SEALED.
2. ALL 2X OR 4X FRAMING LUMBER SHALL BE DOUGLAS FIR #2 OR BTR, 6X DOUGLAS FIR # 1 OR BTR UNLESS OTHERWISE NOTED.
3. ALL EXTERIOR USE LUMBER SHALL BE PRESSURE TREATED W/ FASTENERS HDG & METAL CONNECTORS G135 OR BETTER AS REQUIRED FOR CORROSION RESISTANCE TO THE PRESERVATIVE TYPE USED.
4. ALL STRUCTURAL CONNECTORS SHALL BE AS SPECIFIED OR AN EQUIVALENT.
5. NAILING SHALL CONFORM WITH THE REQUIREMENTS OF THE 2013 CBC UNLESS OTHERWISE NOTED. DRAWING SPECIFIC CALLOUTS SUPERCEDE CODE NAILING REQUIREMENTS
6. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
7. HOLES FOR LAG SCREWS ø⅜" OR GREATER SHALL BE BORED AS FOLLOWS:
   A. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   B. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
   C. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. PROVIDE LIQUID SOAP AS REQUIRED TO LUBRICATE LAG SCREWS DURING INSTALLATION.
8. LAG SCREWS SHALL BE GALVANIZED ASTM A307 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.

FRP NOTES

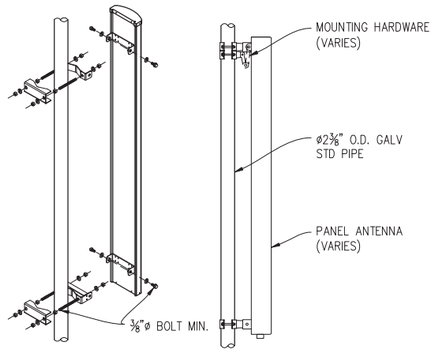
1. FRAMING MEMBERS IN FRONT OF ANTENNA HORIZONTAL BEAM WIDTH SHALL BE ASSEMBLED W/ FRP STRUCTURAL MEMBERS & FASTENERS ONLY.
2. FRP STRUCTURAL FRAMING MEMBERS ARE TO HAVE THE FOLLOWING MINIMUM DESIGN SPECIFICATIONS:

F_b LONGWISE FLEXURAL STRESS W/ F.S.=3.0	10 KSI
E MODULUS OF ELASTICITY	2600 KSI

3. FRP PANELS ARE TO HAVE THE FOLLOWING MINIMUM SPECIFICATIONS:

F_b CROSSWISE FLEXURAL STRESS W/ F.S.=3.0	5 KSI
CROSSWISE FLEXURAL MODULUS	1100 KSI

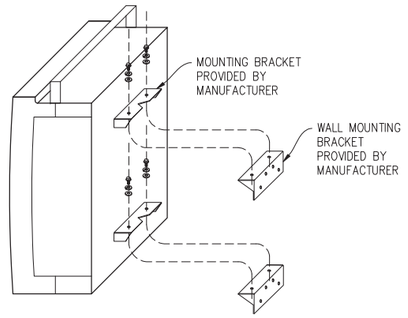
4. FRP BOLTING MINIMUM SINGLE SHEAR ALLOWABLE VALUES:
   ø¼" ⅝ NYLON BOLT; V=67# FS=3.0
   ø½" FRP THREADED ROD & NUT; V=650# FS=4.0
   ø⅝ FRP THREADED ROD & NUT; V=950# FS=4.0
5. PRIME & PAINT ALL FRP SURFACES PER THE FOLLOWING PROCESS:
   A. CLEAN SCREEN W/ DENATURED ALCOHOL
   B. APPLY BONDZ BONDING PRIMER OR EQUIV. LET CURE 24 HRS.
   C. APPLY DRYVIT DPR FINISH TO MATCH (E) BLDG FINISH TEXTURE.
   D. PAINT TO MATCH EXISTING BLDG FINISH COLOR.



ISO VIEW SIDE VIEW

1 ANTENNA MOUNT DETAIL

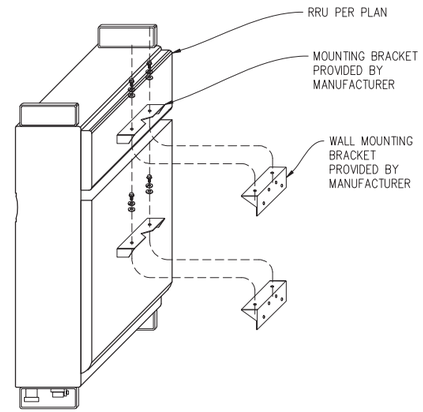
1"=1'-0"



ISO VIEW

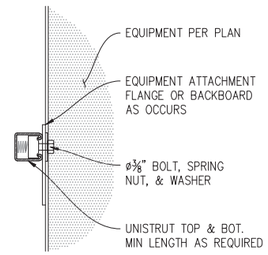
2 RRU MOUNTING DETAIL

NOT TO SCALE



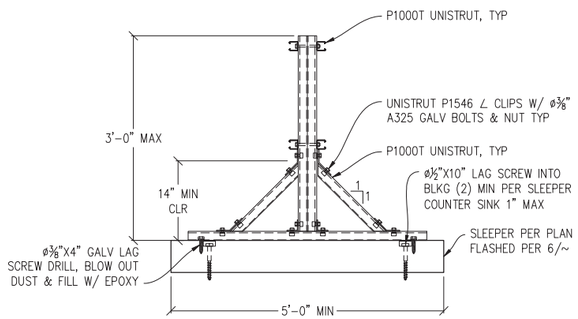
3 MOUNTING DETAIL

NOT TO SCALE



4 EQUIPMENT MOUNTING DETAIL

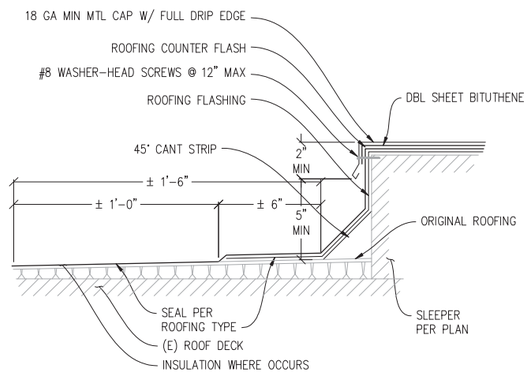
3"=1'-0"



NOTE: HEIGHT OF P1000T UNISTRUT POSTS & SPACING OF RAILS AS REQUIRED

5 RRU H-FRAME DETAIL

1"=1'-0'



6 SLEEPER FLASHING DETAIL

3"=1'-0"

PLACE HOLDER

7 FRP SCREEN DETAIL

N.T.S.

FILLMORE & GOLDEN GATE AVE

CNU5460 / CCL05460

1101 FILLMORE ST
SAN FRANCISCO, CA 94115

ISSUE STATUS

△	DATE	DESCRIPTION	BY
	06/29/15	CD 90%	D.G.
	11/23/15	CD 100%	J.S.
	06/17/16	CLIENT REV	J.S.
	07/19/16	CLIENT REV	J.S.
	09/19/16	CLIENT REV	I.M.
	10/31/16	CLIENT REV	M.H.

DRAWN BY:	D. GARCIA
CHECKED BY:	S. SAVIG
APPROVED BY:	J. SPORE
DATE:	10/31/16

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PRELIMINARY: NOT FOR CONSTRUCTION

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SHEET TITLE:

STRUCTURAL NOTES PLAN & DETAILS

SHEET NUMBER:

S-1