SAN FRANCISCO
PLANNING DEPARTMENT

Executive Summary
Conditional Use Authorization
HEARING DATE: NOVEMBER 16, 2017

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

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Date:	November 9, 2017
Case No.:	**2016-002491CUA**
Project Address:	**556 Jones Street**
Current Zoning:	RC-4 (Residential –Commercial, High Density) 80-T Height and Bulk District 130-T Height and Bulk District
Block/Lot:	0317/014
Project Sponsor:	T-Mobile, represented by Jenny Wun 240 Stockton Street, 3rd Floor San Francisco, CA 94108
Staff Contact:	Ashley Lindsay – (415) 575-9178 Ashley.Lindsay@sfgov.org
Recommendation:	Approval with Conditions

PROJECT DESCRIPTION

The proposal is to install a new T-Mobile Macro Wireless Telecommunications Services ("WTS") facility. The proposed facility consists of the installation of nine (9) new antennas on the rooftop; the installation of three (3) new RRUs (radio relay units) on the rooftop; installation of four (4) new FRP Screen walls on the rooftop, no taller than 90 feet, to shroud the new antennas; all new equipment is to be painted to match at point of attachment; removal of an existing wood pole on the northwest corner of the rooftop; and installation of ancillary equipment in the basement.

All antennas will be located on the rooftop, attached to an existing penthouse, and screened from view within the FRP screen walls. FRP (fiber-reinforced plastic) walls will allow radio signals to pass through, but can be textured and painted to mimic the elements of the existing penthouse.

The equipment area will be located at the basement of the subject building. Additional ancillary equipment will be installed at each sector, within the FRP screen walls, and within the equipment area, not visible from the public right-of-way.

SITE DESCRIPTION AND PRESENT USE

The Project Site is located on Assessor's Block 0317, Lot 014. The lot is located at the corner of Jones Street and Geary Street. The six-story building was constructed in 1913, and is a contributor to the Uptown Tenderloin National Register Historic District. The present use of the building is Single-Room-Occupancy (SRO) hotel use with approximately 41 units, over ground-floor commercial.

SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is situated within the Downtown/Civic Center neighborhood. Surrounding uses include a mix of residential and commercial uses throughout the RC-4 zoned District. In the blocks surrounding the Project Site, with north-south street exhibiting an upsloping pattern in the north direction, the buildings generally range from 2 stories to 8 stories in height and up to 15 stories.

ENVIRONMENTAL REVIEW

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption (Construction of New 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	October 27, 2017	October 25, 2017	22 days
Posted Notice	20 days	October 27, 2017	October 27, 2017	20 days
Mailed Notice	20 days	October 27, 2017	October 27, 2017	20 days

PUBLIC COMMENT/COMMUNITY OUTREACH

The Project Sponsor held a community meeting on July 7, 2016 at 5:30pm at the San Francisco Main Branch Library - Latino Room, 100 Larkin Street, San Francisco, CA 94102. No members of the community attended the meeting.

As of November 6, 2017, the Department has not received any calls or testimony raising concerns about, or expressing support for, the proposed project.

ISSUES AND OTHER CONSIDERATIONS

- Based on the zoning and land use, the proposed WTS facility is considered a Location Preference 5 Site (Mixed Use Buildings in High Density Districts), which is considered a "preferred location" according to the Planning Department's WTS Facilities Siting Guidelines, as the Project Site is a structure within the RC-4 District that already has housing above ground-floor commercial.

- Given the directional nature of the panel antennas, their specific orientation, and their placement on the roof, the Radio-Frequency (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 RF emissions report, the combined maximum RF exposure would be 14% of the public exposure limit set by the FCC. 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.

- T-Mobile 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(c) and 209.3 of the Planning Code, a Conditional Use Authorization is required for a new installation of a WTS facility (Utility and Infrastructure Use) in the RC-4 Zoning Districts.

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 view of other surrounding buildings, nor would it detract from adjacent streetscapes, and vistas within the Downtown/Civic Center neighborhood and Uptown Tenderloin National Register Historic District.
- The Project is on balance, consistent with the Objectives and Policies of the General Plan, as outlined in the draft Motion.
- The expected RF emissions fall within the limits established by the Federal Communications Commission (FCC).
- According to the Planning Department's Wireless Telecommunications Services (WTS) Facilities Siting Guidelines, the Project Site is a preferred location, as a Location Preference 5 (Mixed Use Buildings in High Density Districts) Site.
- Based on propagation maps provided by T-Mobile, the Project would provide enhanced coverage in an area that currently experiences gaps in coverage and capacity.
- Based on the analysis provided by T-Mobile, 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 T-Mobile are accurate.

RECOMMENDATION:	**Approval with Conditions**

Attachments:
Draft Conditional Use Authorization Motion
Block Book Map
Sanborn Map
Zoning Map
Aerial Map

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 AL 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 209.3 TO DEVELOP A T-MOBILE MACRO WIRELESS TELECOMMUNICATIONS SERVICES FACILITY CONSISTING OF THE INSTALLATION OF NINE (9) NEW ANTENNAS; THE INSTALLATION OF THREE (3) NEW RRUS; INSTALLATION OF FOUR (4) NEW FRP SCREEN WALLS TO SHROUD THE NEW ANTENNAS; INSTALLATION OF ANCILLARY EQUIPMENT; REMOVAL OF AN EXISTING WOOD POLE ON THE NORTHWEST CORNER OF THE ROOFTOP; AND ALL NEW EQUIPMENT IS TO BE PAINTED TO MATCH AT POINT OF ATTACHMENT AS PART OF THE T-MOBILE TELECOMMUNICATIONS NETWORK WITHIN THE RC-4 (RESIDENTIAL-COMMERICAL, HIGH DENSITY) ZONING DISTRICT AND 80-T AND 130-T HEIGHT AND BULK DISTRICT.

PREAMBLE

On February 24, 2016, T-Mobile (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for a Conditional Use Authorization on the property at 556 Jones Street, Block 0317, Lot 014 (hereinafter "Project Site") to develop a T-Mobile Macro Wireless Telecommunications Services Facility consisting of the installation of nine (9) new antennas on the rooftop; the installation of three (3) new RRUs (radio relay units) on the rooftop; installation of four (4) new FRP Screen walls on the rooftop, no taller than 90 feet, to shroud the new antennas; all new equipment is to be painted to match at point of attachment; removal of an

existing wood pole on the northwest corner of the rooftop; and installation of ancillary equipment in the basement as part of the T-Mobile Telecommunications Network, within the RC-4 (Residential-Commercial, High Density) Zoning District, and 80-T and 130—T Height and Bulk District.

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 Categorical Exemption (Section 15303 of the California Environmental Quality Act). The Planning Commission has reviewed and concurs with said determination. The categorical exemption and all pertinent documents may be found in the files of the Planning Department (hereinafter "Department"), as the custodian of records, at 1650 Mission Street, Suite 400, San Francisco.

On November 16, 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. 2016-002491CUA, 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 0317, Lot 014. The lot is located at the southeast corner of the intersection of Geary and Jones Streets. The Project Site features a six-story building developed in 1913 and is used for single room occupancy units, over ground floor commercial.

3. **Surrounding Properties and Neighborhood**. The Project Site is situated within the Downtown/Civic Center neighborhood. Surrounding uses include a mix of residential and commercial uses throughout the RC-4 zoned District. In the blocks surrounding the Project Site, with north-south street exhibiting an upsloping pattern in the north direction, the buildings generally range from 2 stories to 8 stories in height and up to 15 stories.

4. **Project Description.** The proposal is to install a new T-Mobile Macro Wireless Telecommunications Services ("WTS") facility. The proposed facility consists of the installation of nine (9) new antennas on the rooftop; the installation of three (3) new

RRUs (radio relay units) on the rooftop; installation of four (4) new FRP Screen walls on the rooftop, no taller than 90 feet, to shroud the new antennas; all new equipment is to be painted to match at point of attachment; removal of an existing wood pole on the northwest corner of the rooftop; and installation of ancillary equipment in the basement.

All antennas will be located on the rooftop, attached to an existing penthouse, and screened from view within the FRP screen walls. FRP (fiber-reinforced plastic) walls will allow radio signals to pass through, but can be textured and painted to mimic the elements of the existing penthouse.

The equipment area will be located at the basement of the subject building. Additional ancillary equipment will be installed at each sector, within the FRP screen walls, and within the equipment area, not visible from the public right-of-way.

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 5 Site (Mixed Use Buildings in High Density Districts) according to the WTS Facilities Siting Guidelines, making it a desired 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 T-Mobile transmitters at ground level would be less than 0.40% of the FCC public exposure limit.

   There are no existing antennas operated by T-Mobile installed on the roof top of the building at 556 Jones Street. Existing RF levels at ground were approximately well below the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. T-Mobile proposes to install nine (9) new antennas. The antennas are mounted at a height of 87 feet above the ground. The estimated RF field from the proposed T-Mobile transmitters at ground level is calculated to be 0.0037 mW/sq cm., which is 0.40% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 45 and 9 feet, and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in

English, Spanish and Chinese. Workers should not have access to within 9 feet of the front of the antennas while they are in operation.

10. **Coverage and Capacity Verification.** The maps, data, and conclusion provided by T-Mobile 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 100 Larkin Street, to discuss the Project at 5:30 p.m. on July 7, 2016. No members of the community attended the meeting.

13. **Five-year plan:** Per the *Guidelines*, the Project Sponsor submitted an updated five-year plan, as required, in April 2017.

14. **Public Comment.** As of November 6, 2017, the Department has not received any calls or testimony in opposition or support of 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 209.3, 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 approval. 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 556 Jones 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 556 Jones 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 T-Mobile 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:

iii. 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.

iv. 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.

v. 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.

vi. 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 T-Mobile's coverage and capacity within the Downtown/Civic Center 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 T-Mobile 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 FRP screen walls 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.

Furthermore, the proposed WTS facility has been found to be consistent with the intent and requirements outlined in Historic Preservation Commission Motion No. 0289 and Resolution

No. 764, and the project was determined to be in conformance with the Secretary of the Interior's Standards for Rehabilitation.

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. **2016-002491CUA**, subject to the following conditions attached hereto as "EXHIBIT A" in general conformance with plans on file, dated June 29, 2017, 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 **November 16, 2017**.

Jonas P. Ionin
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED:

EXHIBIT A

AUTHORIZATION

This authorization is for a Conditional Use to allow a new Macro Wireless Telecommunications Facility (operated by T-Mobile) consisting of the installation of nine (9) new antennas on the rooftop; the installation of three (3) new RRUs (radio relay units) on the rooftop; installation of four (4) new FRP Screen walls on the rooftop, no taller than 90 feet, to shroud the new antennas; all new equipment is to be painted to match at point of attachment; removal of an existing wood pole on the northwest corner of the rooftop; and installation of ancillary equipment in the basement located at 556 Jones Street, Block 0317, Lot 014, pursuant to Planning Code Sections 303 and 209.3 within the RC-4 Zoning District and an 80-T and 130-T Height and Bulk District; in general conformance with plans, dated June 29, 2017 and stamped "EXHIBIT B" included in the docket for Record No. 2016-002491CUA and subject to conditions of approval reviewed and approved by the Commission on November 16, 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 **November 16, 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

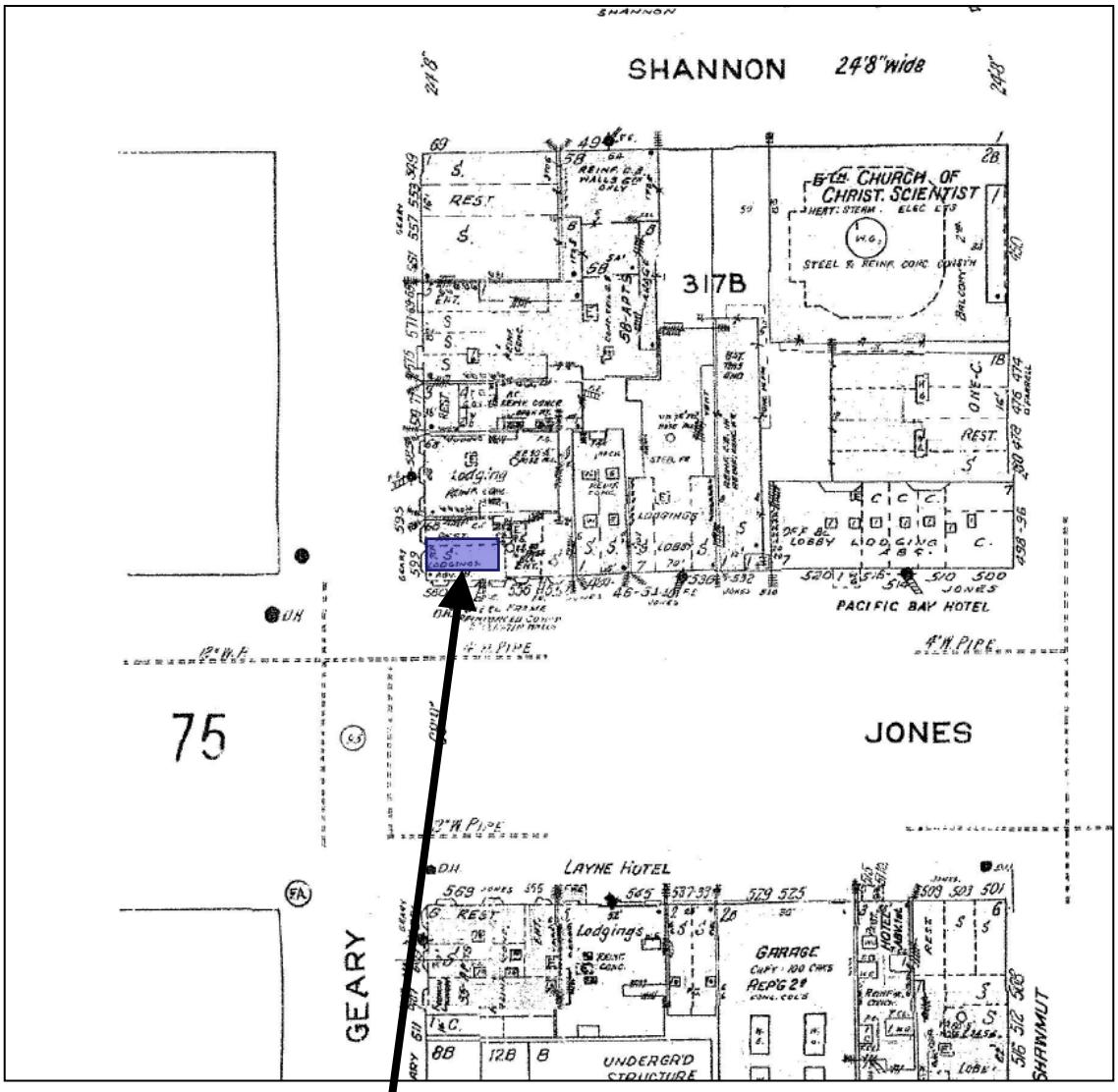
23. **Compatibility with City Emergency Services – WTS**. The facility shall not be operated or caused to transmit on or adjacent to any radio frequencies licensed to the City for emergency telecommunication services such that the City's emergency telecommunications system experiences interference, unless 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 2016-002491CUA
T-Mobile
Macro WTS Facility
566 Jones Street

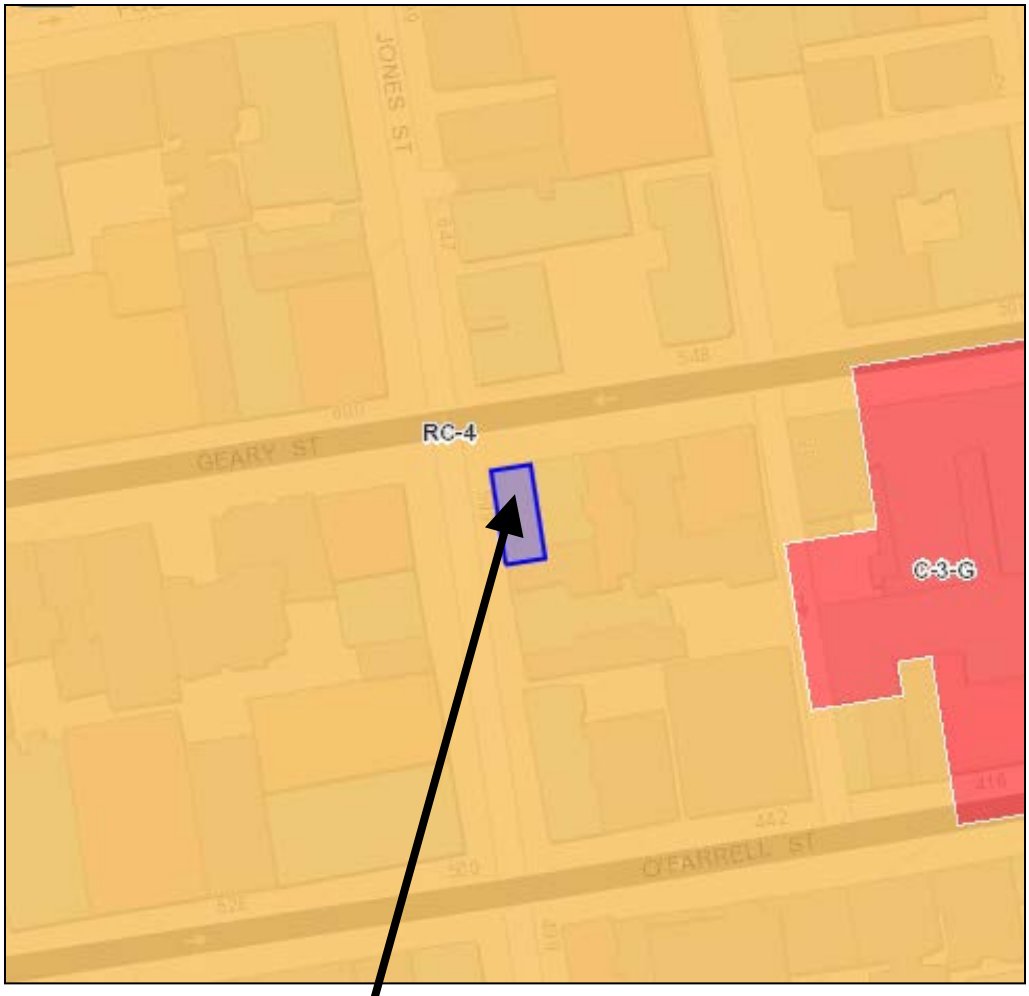
SAN FRANCISCO
PLANNING DEPARTMENT

Sanborn Map*



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

Zoning Map



Case Number 2016-002491CUA
T-Mobile
Macro WTS Facility
566 Jones Street

SAN FRANCISCO
PLANNING DEPARTMENT

Aerial Photo

Case Number 2016-002491CUA
T-Mobile
Macro WTS Facility
566 Jones Street

SAN FRANCISCO
PLANNING DEPARTMENT

556 Jones Street
Contextual Photos

View of site from Jones St and Geary St.

View of site looking East from Geary St. toward Jones St.

View of site looking west on Geary St.

View of site looking east on Jones St.

Existing

Proposed

view from Jones Street looking north at site

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

T-Mobile

SF93159A Nazereth Hotel
556 Jones Street, San Francisco, CA
Photosims Produced on 8-30-2017

Existing

Proposed

view from Geary Street looking east at site

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

T-Mobile

SF93159A Nazereth Hotel
556 Jones Street, San Francisco, CA
Photosims Produced on 8-30-2017

Existing

Proposed

view adacent to 642 Jones Street looking south at site

AdvanceSim
Photo Simulation Solutions
Contact (925) 202-8507

T-Mobile

SF93159A Nazereth Hotel
556 Jones Street, San Francisco, CA
Photosims Produced on 8-30-2017

T · ·Mobile· ®

WEST REGION
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

CONDITIONAL USE AUTHORIZATION:
2016:002491CUA

SF93159A - NAZARETH HOTEL

556 JONES STREET
SAN FRANCISCO, CA 94102

PROJECT DESCRIPTION

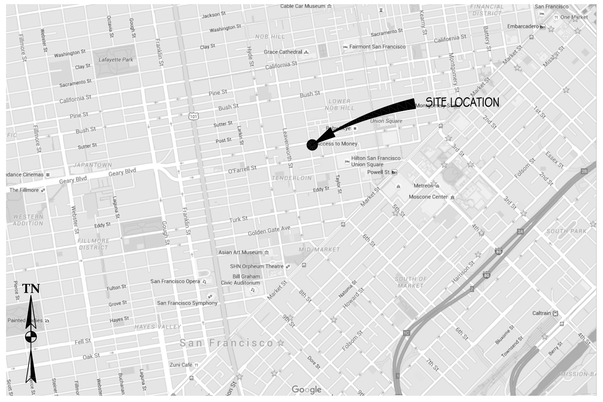
T-MOBILE TO INSTALL A (N) UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF:

1. INSTALL (9) (N) ANTENNAS
2. INSTALL (3) (N) RRU11 B-12
3. INSTALL (4) (N) FRP SCREEN WALLS TO SHROUD (N) ANTENNAS
4. INSTALL (N) PPC CABINET
5. INSTALL (N) PBC 6200
6. INSTALL (N) RBS 6201 CABINET
7. INSTALL (N) 1' DIA MW DISH
8. INSTALL (N) 24"X24"X8" TELCO BOX ON (N) H-FRAME
9. (E) WOOD POLE ON NW CORNER OF ROOFTOP TO BE REMOVED
10. PAINT ALL (N) EQUIPMENT TO MATCH AT POINT OF ATTACHMENT

PROJECT INFORMATION

SITE NAME:	NAZARETH HOTEL	SITE #:	SF93159A
SITE TYPE:	BUILDING	JURISDICTION:	CITY OF SAN FRANCISCO
COUNTY:	SAN FRANCISCO	POWER:	PG&E
APN:	0317-014	TELEPHONE:	AT&T
SITE ADDRESS:	556 JONES STREET SAN FRANCISCO, CA 94102		
CURRENT ZONING:	RC-4		
CONSTRUCTION TYPE:	V		
OCCUPANCY TYPE:	U, (UNMANNED COMMUNICATIONS FACILITY)		
PROPERTY OWNER:	MOUNIR & FERIAL KARDOSH 800 B ST #100 SAN MATEO, CA 94401		
APPLICANT:	T-MOBILE 1855 GATEWAY BLVD , SUITE 900 CONCORD, CA 94520		
LEASING CONTACT:	ATTN: NICOLE SAPUTO MODUS INC (925) 360-4960		
ZONING CONTACT:	ATTN: KEVIN BOWYER MODUS INC (408) 219-5442 KBOWYER@MODUS-CORP.COM		
CONSTRUCTION CONTACT:	ATTN: HOLLY KIRKPATRICK (415) 716-8361 HOLLY.KIRKPATRICK1@TMOBILE.COM		
LATITUDE:	37° 47' 11.98" N (37.786661) NAD 83		
LONGITUDE:	122° 24' 46.90" W (-122.413028) NAD 83		
AMSL:	±102'		

VICINITY MAP



DRIVING DIRECTIONS

FROM: 1855 GATEWAY BLVD, SUITE 900, CONCORD, CA 94520
TO: 556 JONES STREET, SAN FRANCISCO, CA 94102

1.	HEAD SOUTHEAST ON GATEWAY BLVD	161 FT
2.	TURN RIGHT ONTO CLAYTON RD	0.2 MI
3.	TAKE THE RAMP ONTO CA-242 S	0.3 MI
4.	MERGE ONTO CA-242 S	0.9 MI
5.	MERGE ONTO I-680 S	3.3 MI
6.	TAKE EXIT 4G FOR CALIFORNIA 24 TOWARD LAFAYETTE/OAKLAND	1.2 MI
7.	CONTINUE ONTO CA-24 W	8.1 MI
8.	KEEP LEFT AT THE FORK TO STAY ON CA-24 W	4.3 MI
9.	TAKE EXIT 2B FOR INTERSTATE 580 W	1.0 MI
10.	MERGE ONTO I-580 W	0.6 MI
11.	TAKE EXIT 19A ON THE LEFT TO MERGE ONTO I-80 W TOWARD SAN FRANCISCO	7.3 MI
12.	TAKE EXIT 2A ON THE LEFT FOR FIFTH STREET	0.3 MI
13.	TURN LEFT ONTO HARRISON STREET	0.2 MI
14.	TURN RIGHT ONTO 6TH STREET	0.5 MI
15.	CONTINUE ONTO TAYLOR STREET	0.3 MI
16.	TURN LEFT ONTO GEARY STREET	407 FT
17.	TURN LEFT AT THE SECOND CROSS STREET ONTO JONES STREET	72 FT

END AT: 556 JONES STREET, SAN FRANCISCO, CA 94102

ESTIMATED TIME: 41 MINS ESTIMATED DISTANCE: 28.6 MI

CODE COMPLIANCE

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

1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)

2. 2016 CALIFORNIA BUILDING CODE

3. 2016 CALIFORNIA ELECTRICAL CODE

4. 2016 CALIFORNIA MECHANICAL CODE

5. 2016 CALIFORNIA PLUMBING CODE

6. 2016 CALIFORNIA FIRE CODE

7. LOCAL BUILDING CODES

8. CITY/COUNTY ORDINANCES

9. ANSI/EIA-TIA-222-G

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

ACCESSIBILITY REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. ACCESSIBILITY REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, CHAPTER 11B, SECTION 11B-203.5

SHEET INDEX

APPROVAL

RF

LEASING

ZONING

CONSTRUCTION

T-MOBILE

PG&E

T · ·Mobile·
WEST REGION
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

MODUS
149 NATOMA ST, 3RD FLOOR
SAN FRANCISCO, CA 94105

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

NAZARETH HOTEL

SF93159A
556 JONES STREET
SAN FRANCISCO, CA 94102

ISSUE STATUS

△	DATE	DESCRIPTION	
	01/26/16	ZD 90%	
	02/19/16	ZD 100%	
⚠	06/29/17	ZD 100%	

DRAWN BY:	S.D. / B.L.
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	06/29/17

SHEET TITLE:

TITLE SHEET

SHEET NUMBER

T-1

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by T-Mobile West LLC, a personal wireless telecommunications carrier, to evaluate the base station (Site No. SF93159A) proposed to be located at 556 Jones 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 T-Mobile, including zoning drawings by Precision Design & Drafting, Inc., dated May 18, 2016. It should be noted that the calculations 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.*

There are reported no wireless base stations installed at the site.

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.*

T-Mobile proposes to install nine directional panel antennas above the roof of the six-story mixed-use building located at 556 Jones Street in San Francisco. 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.*

T-Mobile proposes to install nine directional panel antennas – six Ericsson Model AIR21 and three RFS Model APXVF18-C-A20 – around the top of the elevator penthouse. The antennas would employ 4° downtilt, would be mounted at an effective height of about 87 feet above ground, 14½ feet above the main roof and about 2 feet above the roof of the stairwell penthouse, and would be oriented in identical groups of three toward 70°T, 190°T, and 320°T, to provide service in all directions. The antennas oriented toward 70°T and 190°T would be enclosed by a view screen shroud on the east and south faces of the elevator penthouse.

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.*

Since there are no antennas currently installed at the site, existing RF levels for a person at the nearest access areas are presumed to be well below the public limit. Similarly, existing RF levels for a person at ground near the site are presumed to be well below the 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 in any direction would be 6,000 watts, representing simultaneous operation at 2,200 watts for AWS, 2,200 watts for PCS, and 1,600 watts for 700 MHz service.

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

The maximum calculated RF exposure level at any nearby building is 14% of the public exposure limit; this occurs at the taller building to the north, across Geary Street.

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 T-Mobile operation is calculated to be 0.0037 mW/cm^2, which is 0.40% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be well below the public exposure 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 45 and 9 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.*

Due to their mounting location and height, the T-Mobile antennas would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, 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 T-Mobile and of the property owner. No access within 9 feet directly in front of the antennas themselves, such as might occur during certain maintenance activities on the glass stairwell penthouse roof, 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 a red stripe be painted around the edge of the stairwell penthouse roof, as shown in Figure 1, to alert authorized personnel to the possible presence of RF levels in excess of the public and occupational limits. It is recommended that explanatory signs* be posted at the roof access door, at the red striping, on the face of the enclosure in front of the antennas there, and at the antennas on the north face of the elevator penthouse, readily visible from any angle of approach to persons who might need to work within that distance.

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.

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

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by T-Mobile West LLC at 556 Jones Street in San Francisco, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. 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.

REGISTERED PROFESSIONAL ENGINEER
WILLIAM F. HAMMETT
E-13026
M-20676
Exp. 6-30-2017
ELECTRICAL
MECHANICAL
STATE OF CALIFORNIA

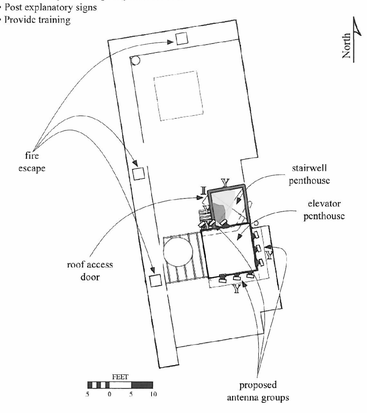
William F. Hammett, P.E.
707/996-5200

June 2, 2016

Calculated RF Exposure Levels on Roof

Recommended Mitigation Measures

- Paint red stripe around glass penthouse roof
- Post explanatory signs
- Provide training



Notes: See text.
Base drawing from Precision Design & Drafting, Inc., dated May 18, 2016.
Calculations performed according to OET Bulletin 65, August 1997.

Legend:	Less Than Public	Exceeds Public	Exceeds Occupational	Exceeds 10x Occupational
Shading color	blank	yellow	**red**	N/A
Sign type	I - Green INFORMATION	B - Blue NOTICE	Y - Yellow CAUTION	O - Orange WARNING

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MODUS
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NAZARETH HOTEL

SF93159A
556 JONES STREET
SAN FRANCISCO, CA 94102

ISSUE STATUS

△	DATE	DESCRIPTION	
	01/26/16	ZD 90%	
	02/19/16	ZD 100%	
⚠	06/29/17	ZD 100%	

DRAWN BY:	S.D. / B.L.
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	06/29/17

SHEET TITLE:

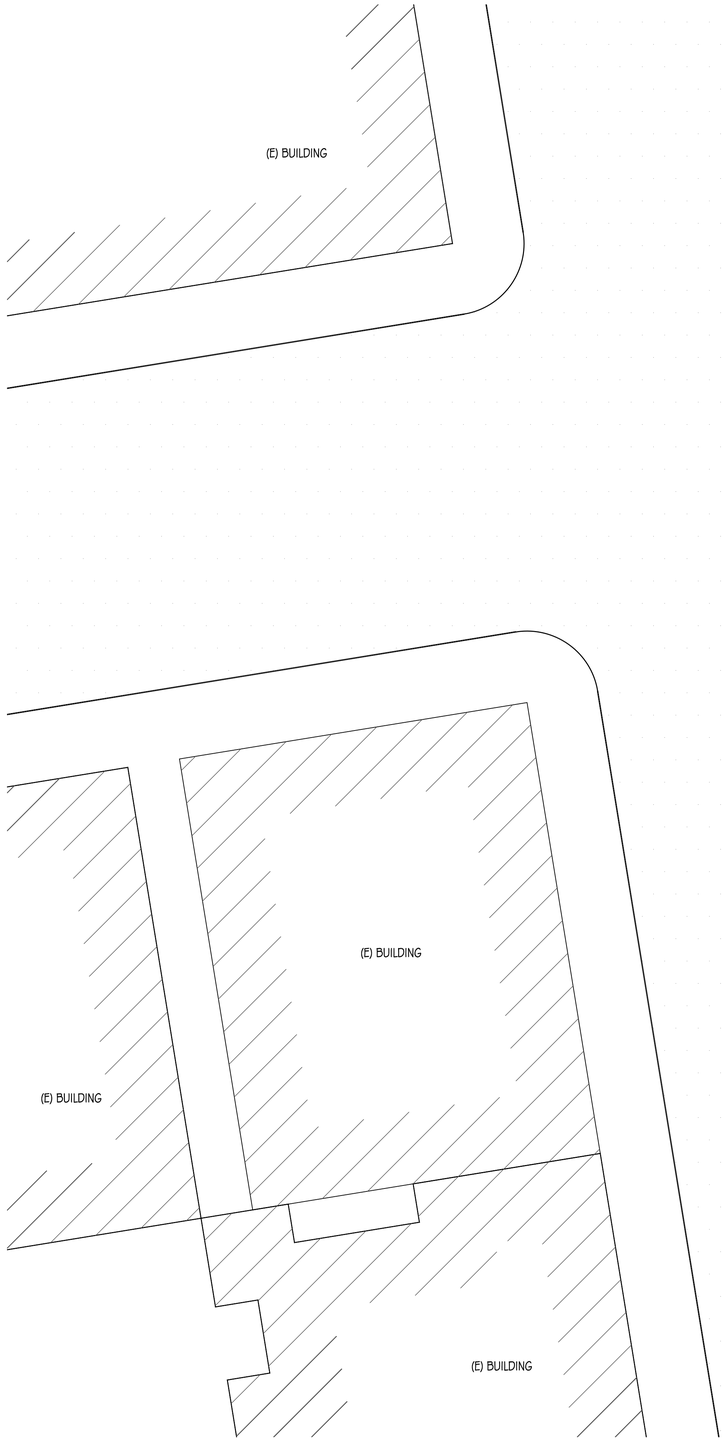
EMF REPORT

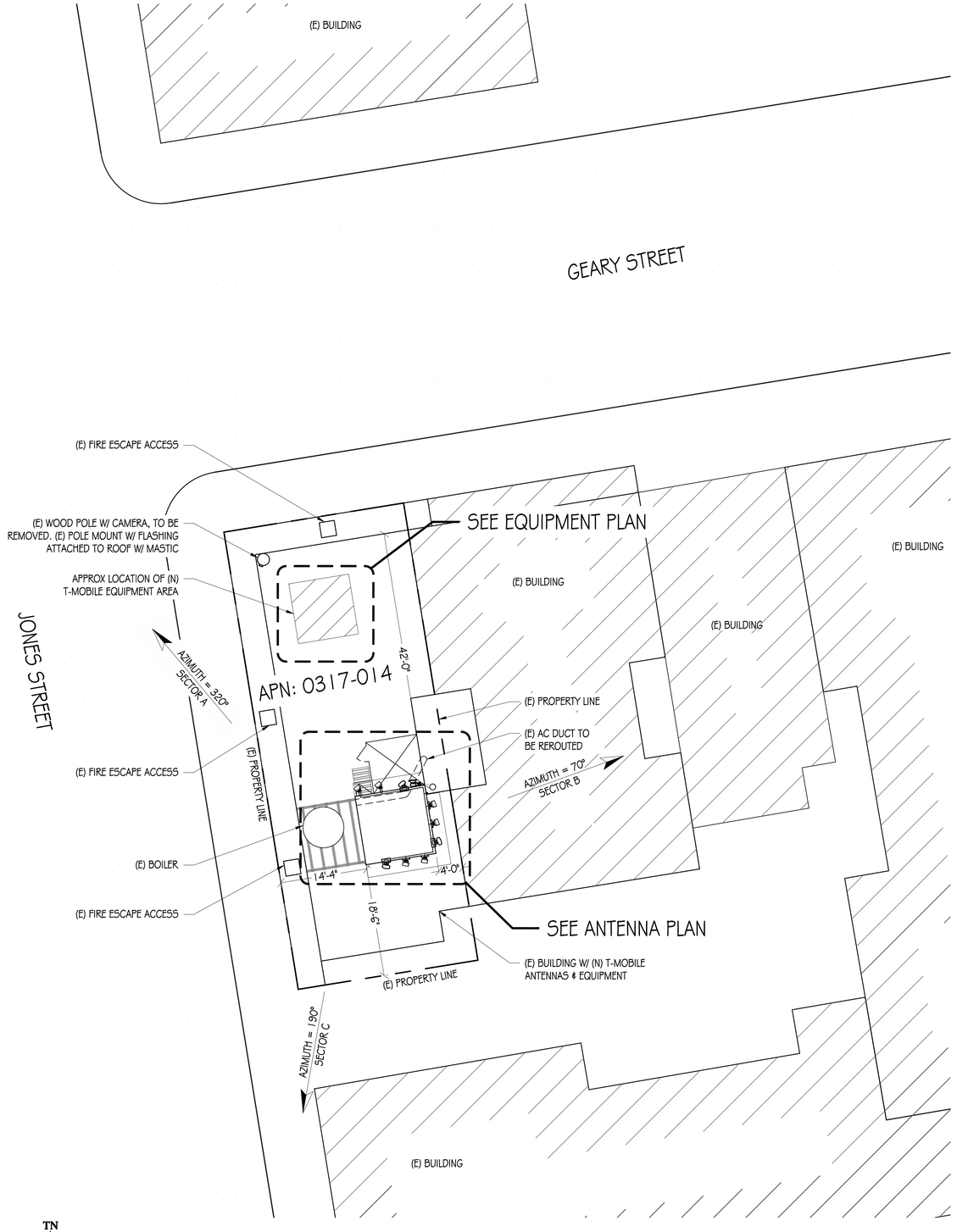
SHEET NUMBER

T-2

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, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY, LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS 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. CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.





TN

SITE PLAN

1"=10'

NOTE: ALL ANTENNAS, EQUIPMENT, SCREEN WALLS, ETC TO BE PAINTED & TEXTURED TO MATCH THE (E) ROOFTOP ELEMENTS THEY ARE ATTACHED TO

0 5' 10' 20' 30' 50'

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ISSUE STATUS

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	02/19/16	ZD 100%
1	06/29/17	ZD 100%

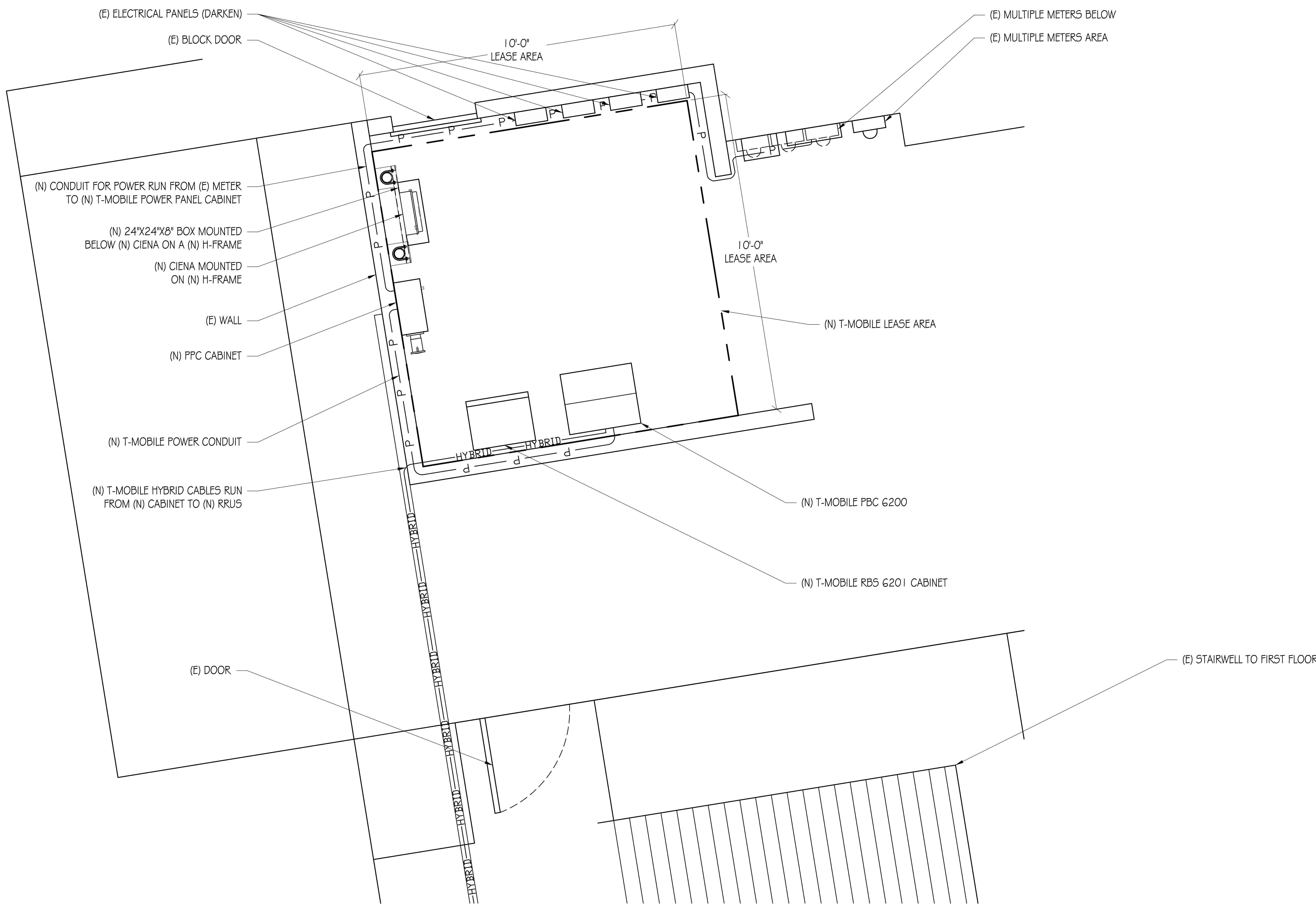
DRAWN BY:	S.D. / B.L.
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	06/29/17

SHEET TITLE:

SITE PLAN

SHEET NUMBER

A-1



TN

NEW EQUIPMENT PLAN AT BASEMENT OF (E) BUILDING

1/2"=1'-0"

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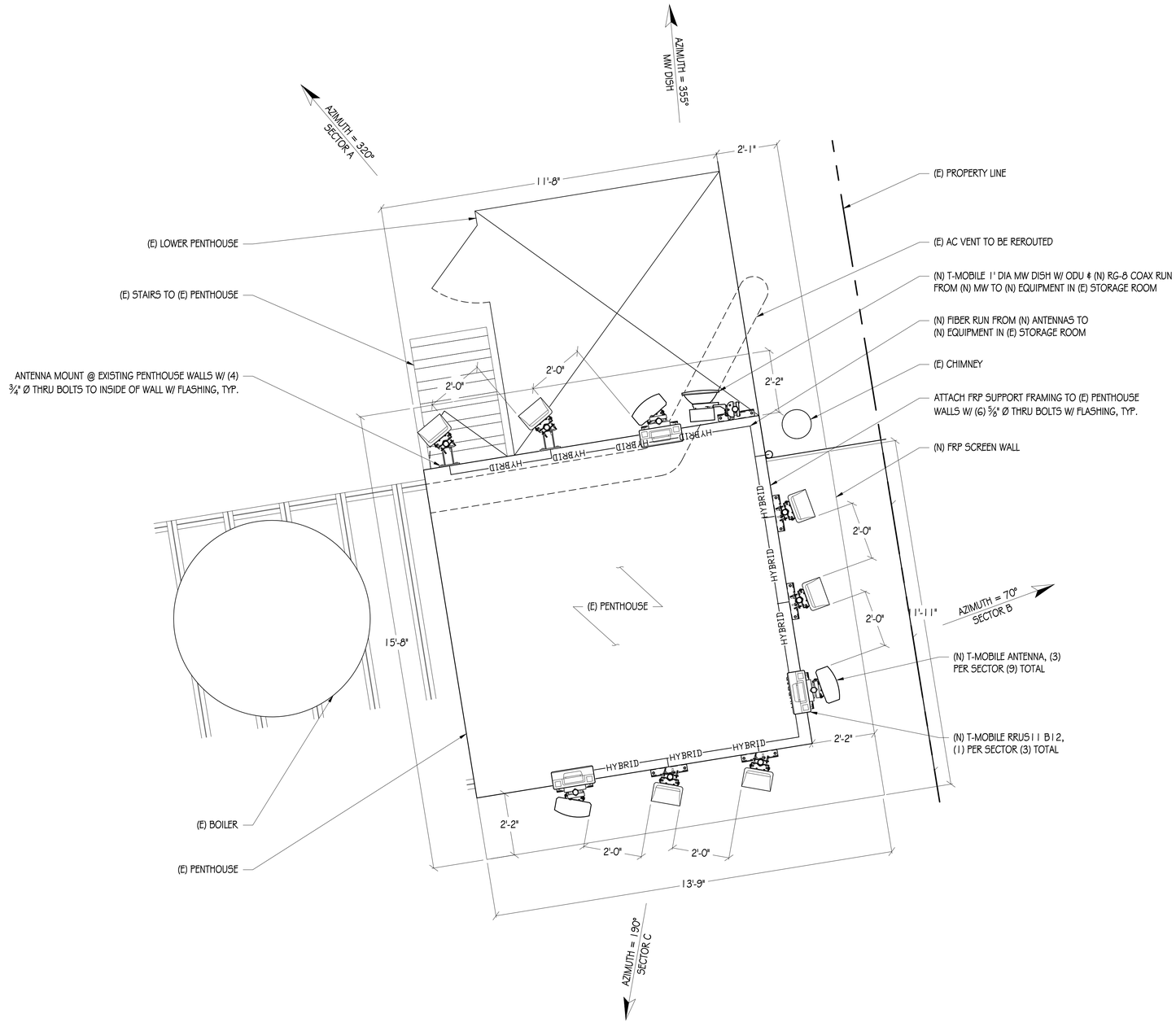
SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER

A-2



TN

NEW ANTENNA PLAN

1/2"= 1'-0"

NOTE: 1) FRP MATERIAL TO HAVE A SMOOTH FACE WITHOUT RIVET BOLTS. 2) FRP TO BE PAINTED TO MATCH THE (E) PENTHOUSE. 3) ALL OTHER EQUIPMENT TO BE PAINTED TO MATCH (E) PENTHOUSE

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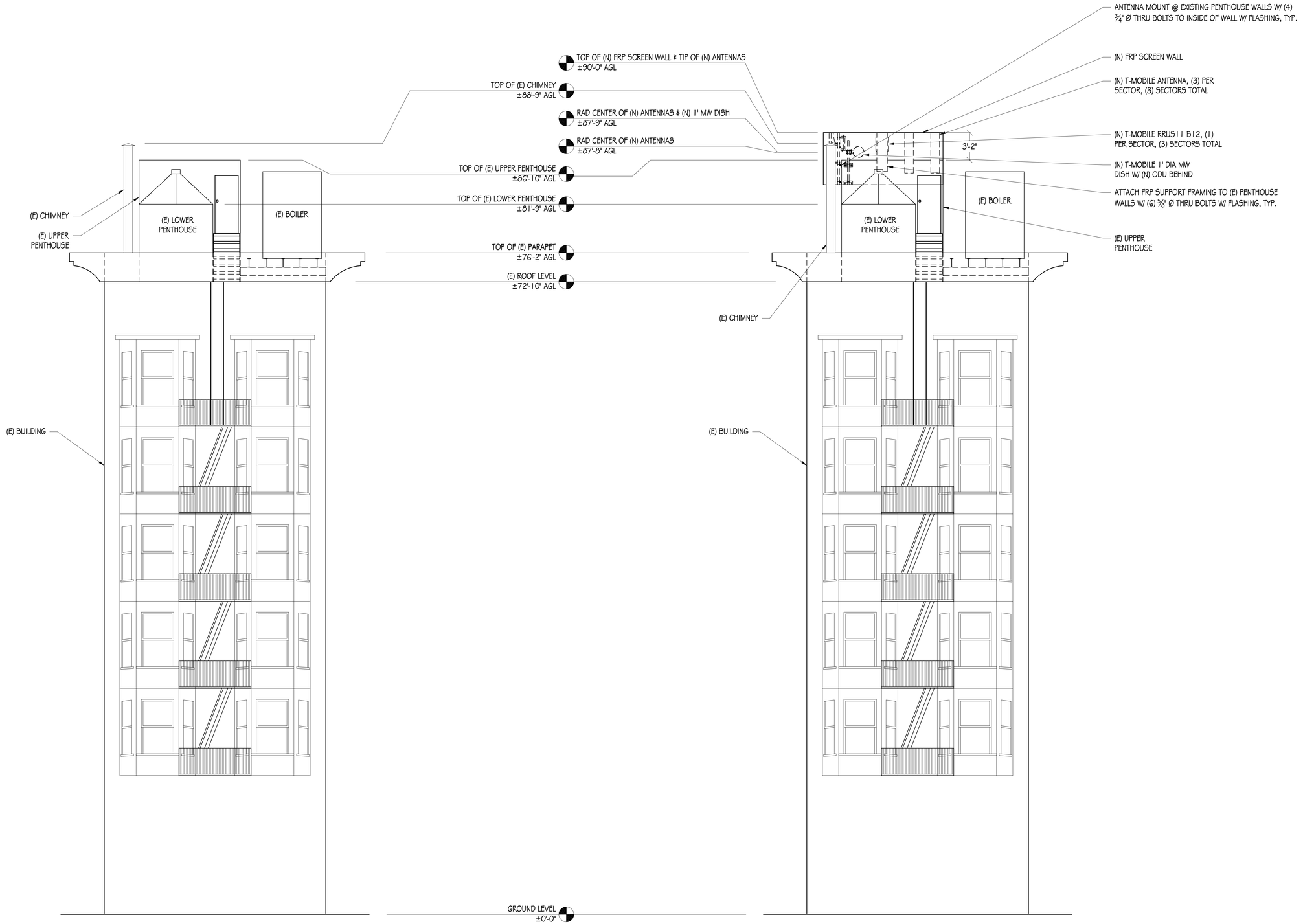
DATE:	06/29/17

SHEET TITLE:

ANTENNA PLAN

SHEET NUMBER

A-3



EXISTING NORTH ELEVATION

3/16"= 1'-0"

NEW NORTH ELEVATION

3/16"= 1'-0"

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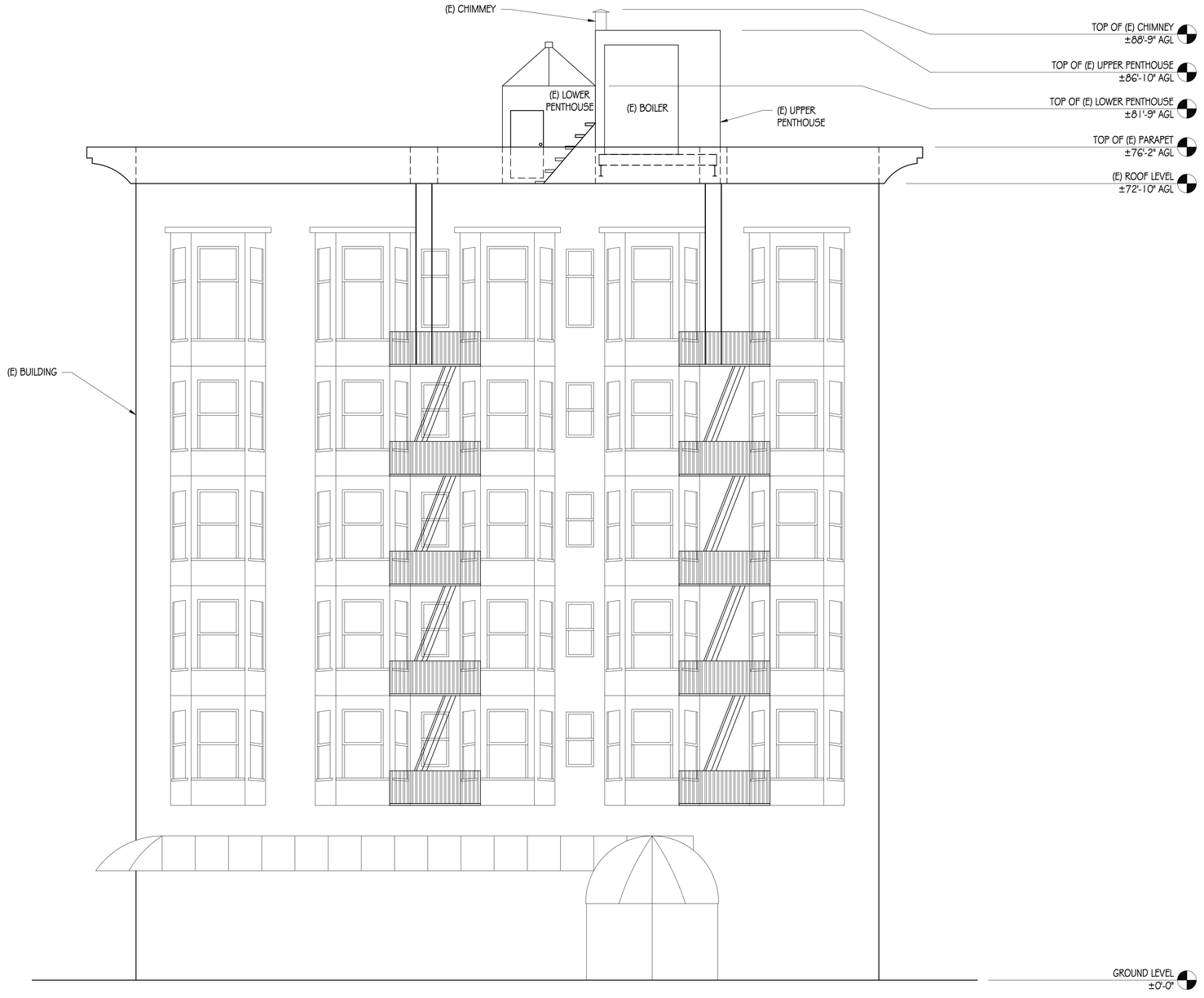
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-4



EXISTING WEST ELEVATION

3/16"= 1'-0"

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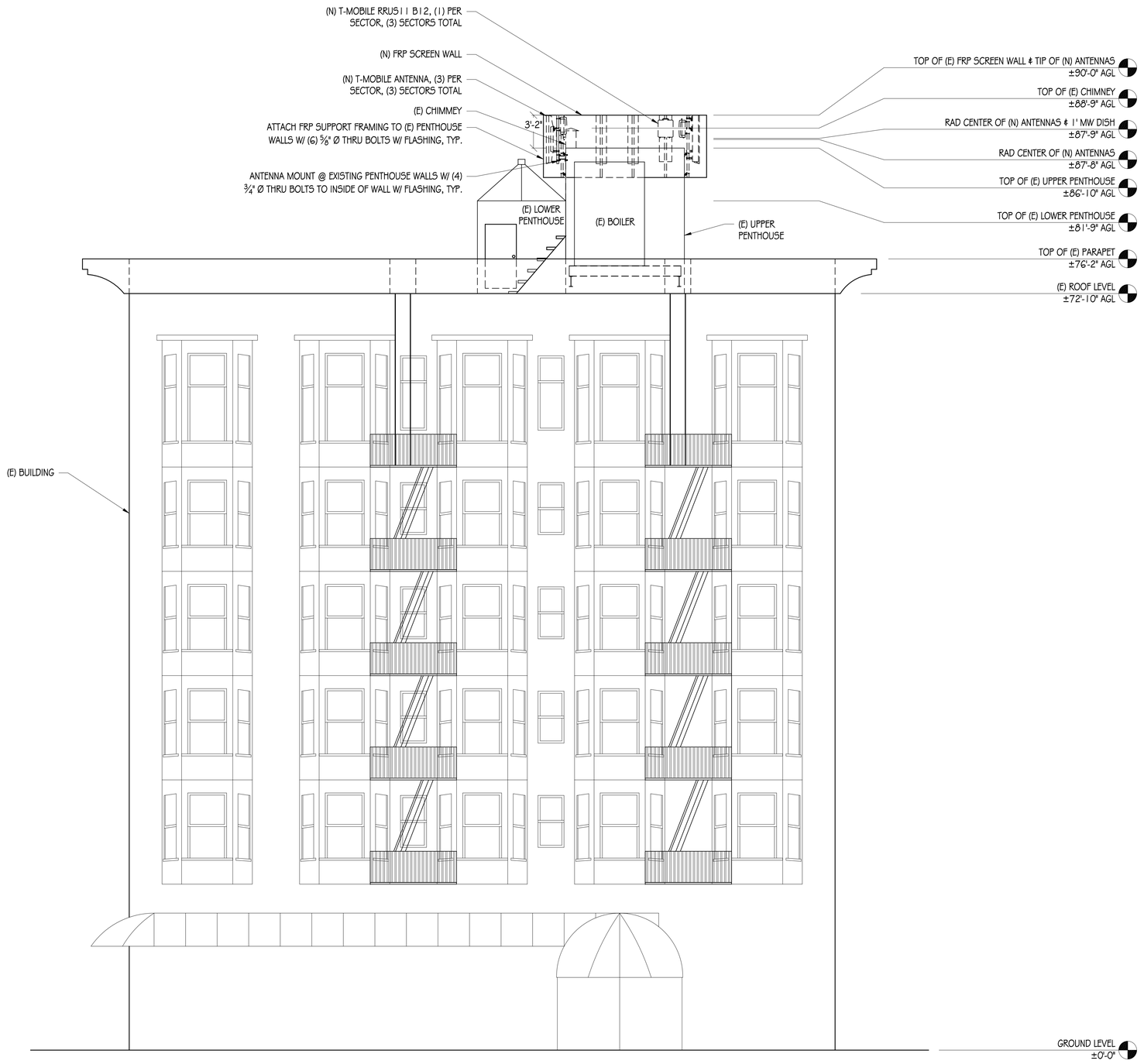
SHEET TITLE:

ELEVATION

SHEET NUMBER

A-5



NEW WEST ELEVATION

3/16"= 1'-0"

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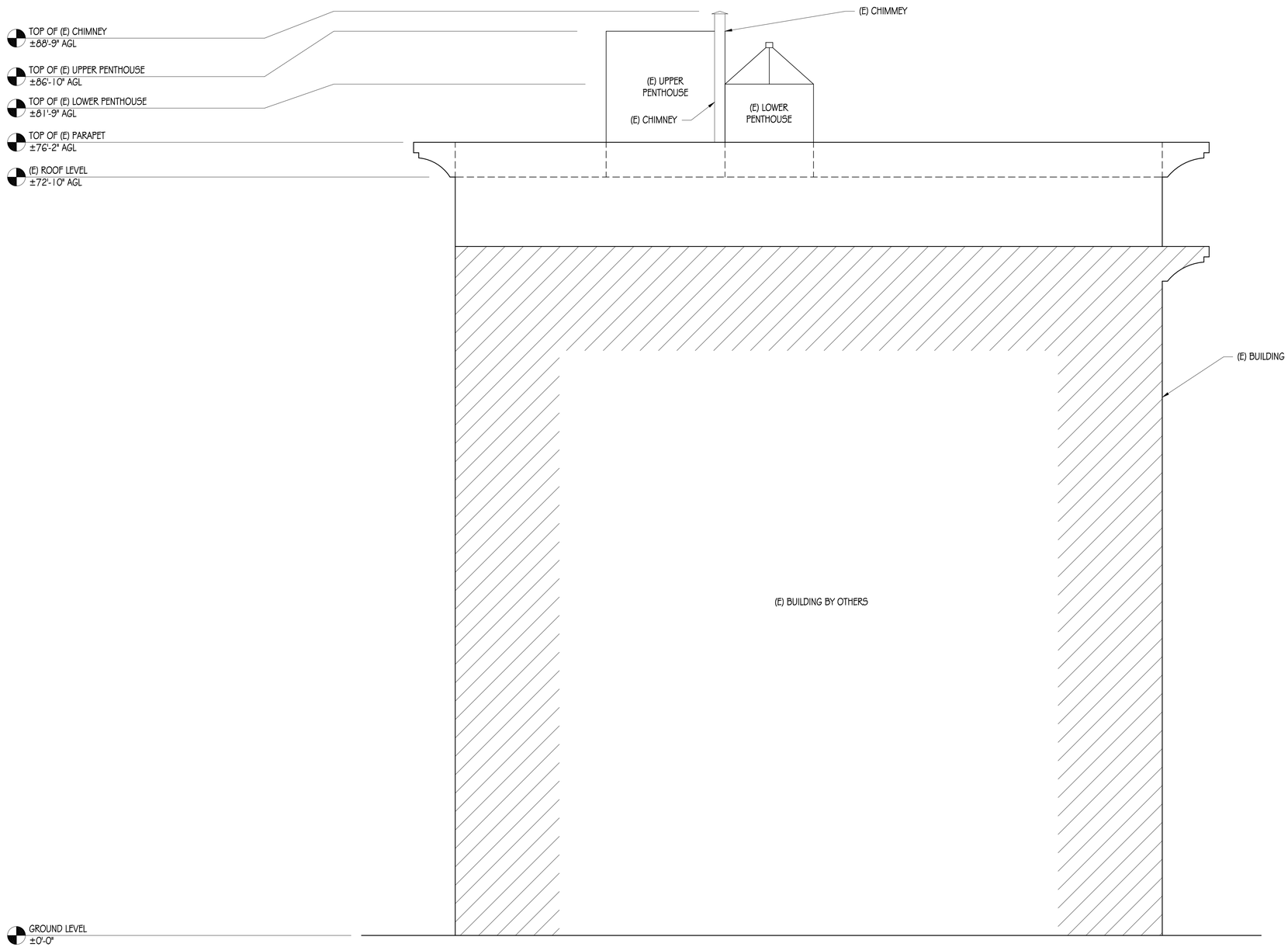
DATE:	06/29/17

SHEET TITLE:

ELEVATION

SHEET NUMBER

A-6



EXISTING EAST ELEVATION

3/16"= 1'-0"

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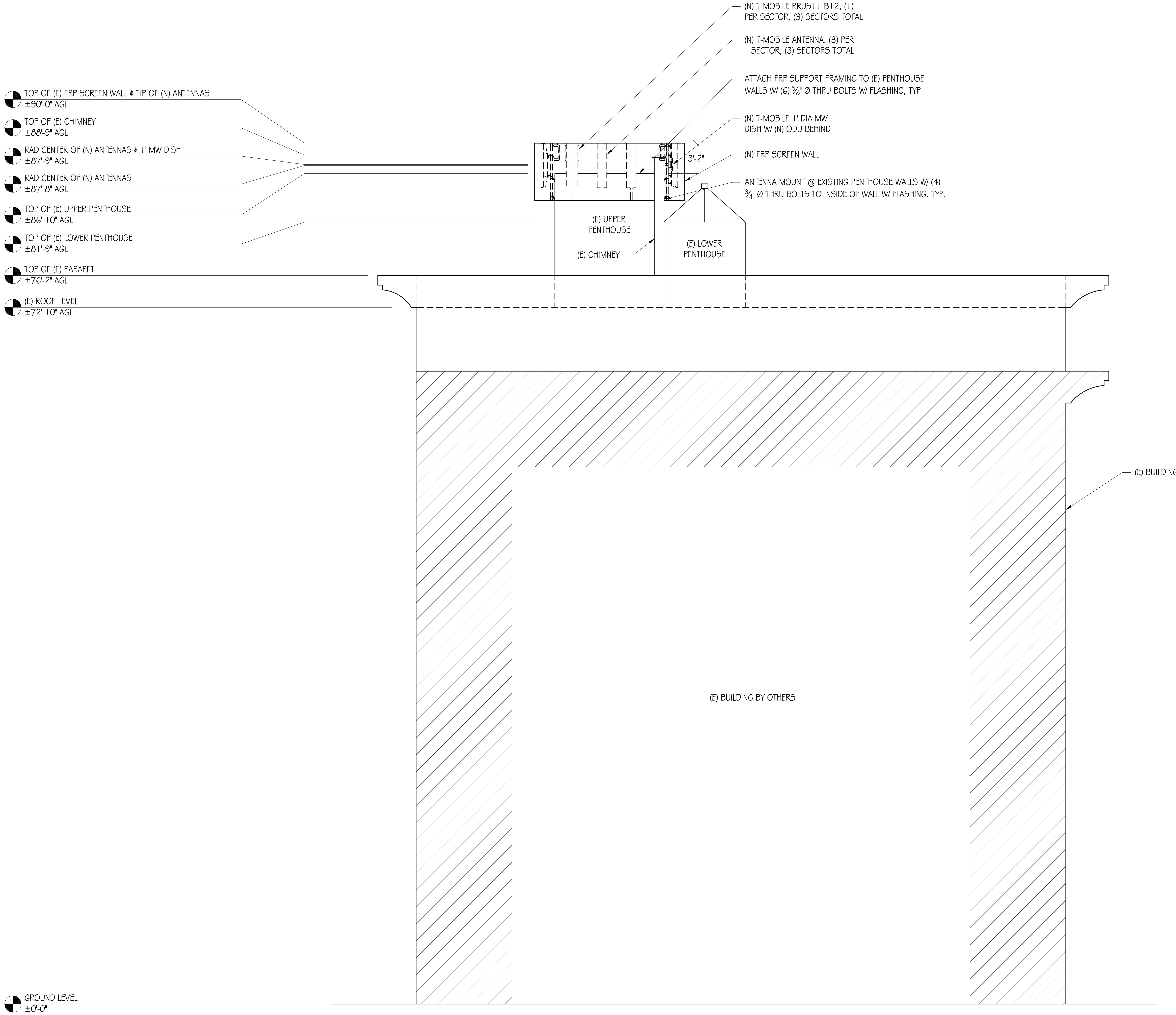
DATE:	06/29/17

SHEET TITLE:

ELEVATION

SHEET NUMBER

A-7



NEW EAST ELEVATION

3/16"=1'-0"

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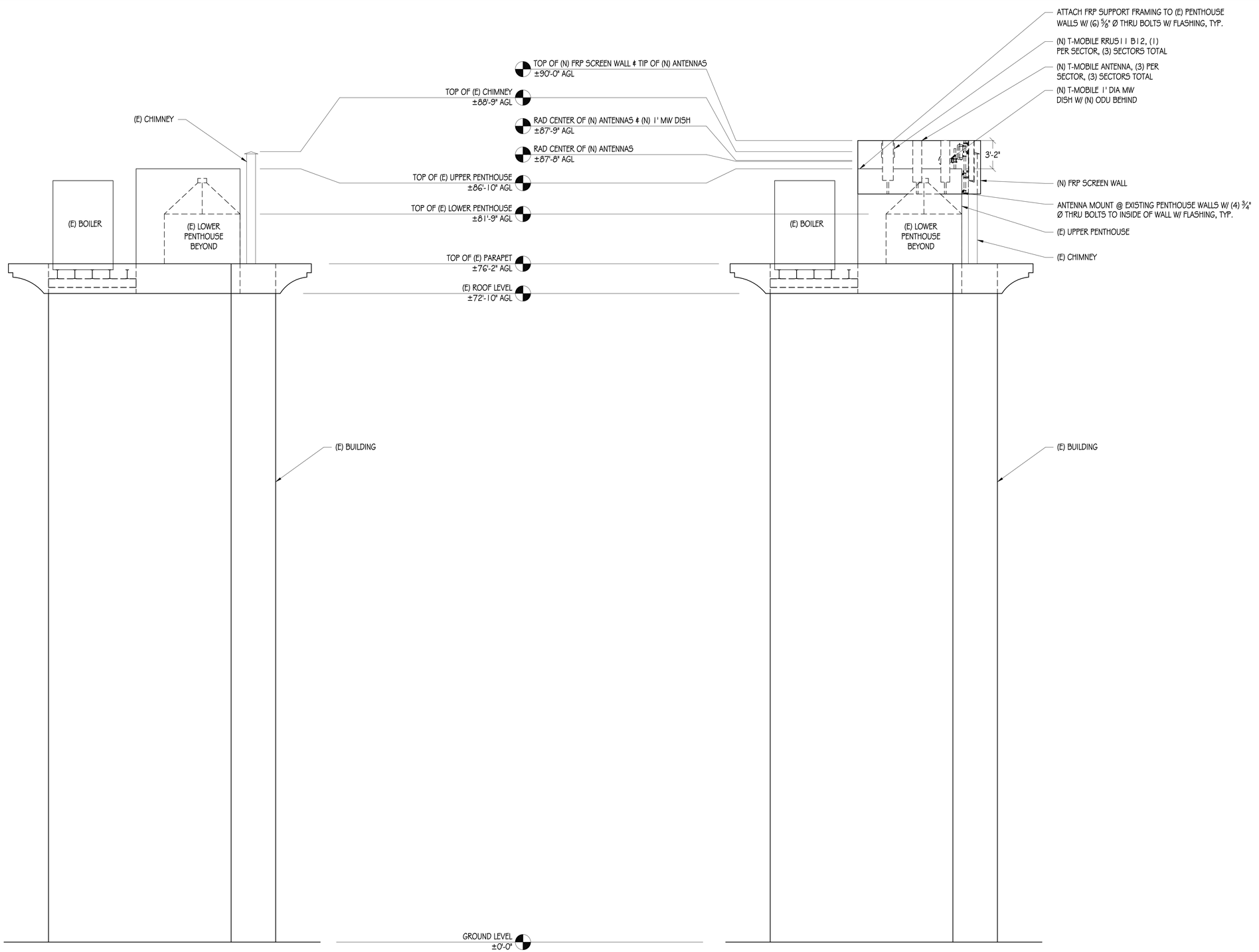
APPROVED BY: B. McCOMB
DATE: 06/29/17

SHEET TITLE:
ELEVATIONS

SHEET NUMBER
A-8



EXISTING SOUTH ELEVATION

3/16"= 1'-0"

NEW SOUTH ELEVATION

3/16"= 1'-0"

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SHEET TITLE:

ELEVATIONS

SHEET NUMBER

A-9

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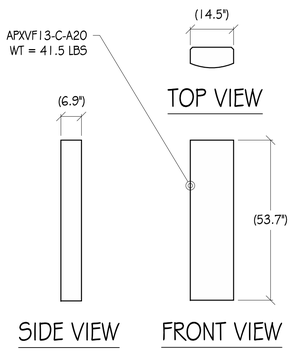
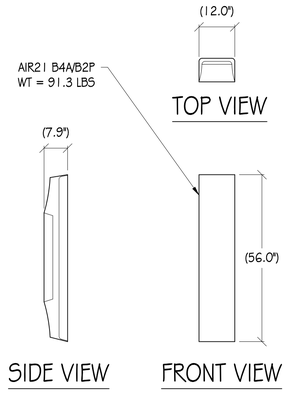
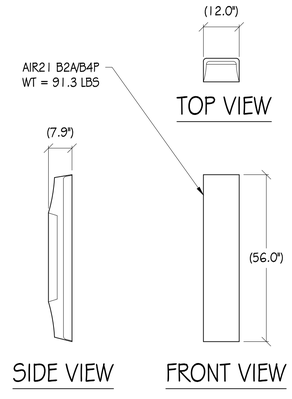


1 ANTENNA DETAIL
1/2"=1'



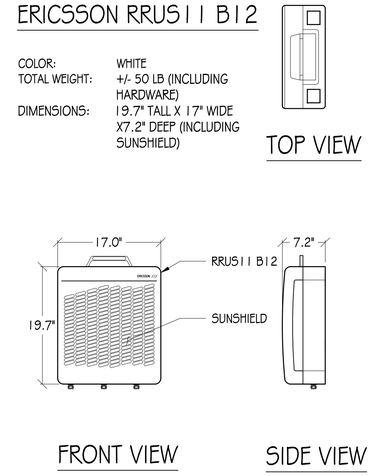
2 ANTENNA DETAIL
1/2"=1'



3 ANTENNA DETAIL
1/2"=1'

ERICSSON RRUS11 B12

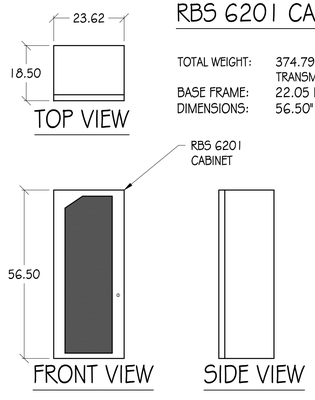
COLOR:	WHITE
TOTAL WEIGHT:	+/- 50 LB (INCLUDING HARDWARE)
DIMENSIONS:	19.7" TALL X 17" WIDE X7.2" DEEP (INCLUDING SUNSHIELD)



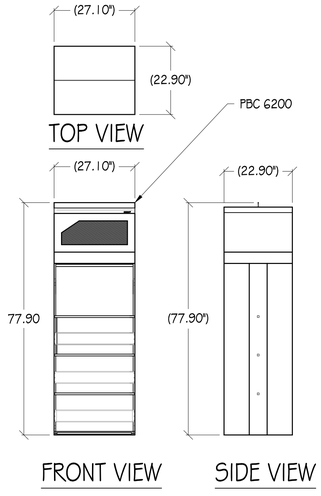
4 ERICSSON RRUS11 B12 DETAIL
1"=1'

RBS 6201 CABINET

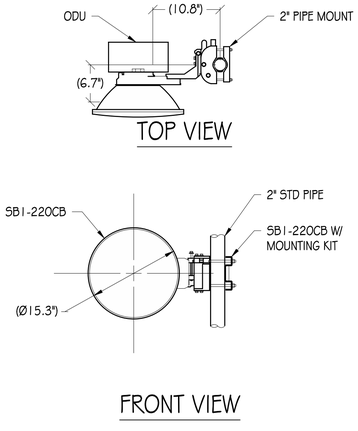
TOTAL WEIGHT:	374.79 LBS FULLY EQUIPPED W/O TRANSMISSION EQUIPMENT
BASE FRAME:	22.05 LBS
DIMENSIONS:	56.50" X 23.62" X18.50"



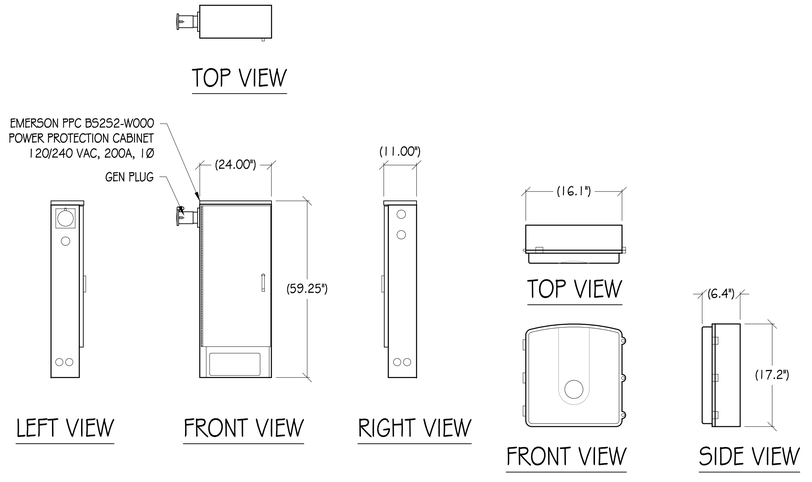
5 RBS 6201 INDOOR CABINET DETAIL
1/2"=1'



6 PBC 6200 DETAIL
1/2"=1'



7 MICROWAVE DISH DETAIL
1"=1'-0"



8 PPC CABINET DETAIL
1/2"=1'

9 CN 3911 DETAIL
1"=1'

T-Mobile
WEST REGION
1855 GATEWAY BLVD, SUITE 900
CONCORD, CA 94520

MODUS
149 NATOMA ST, 3RD FLOOR
SAN FRANCISCO, CA 94105

PRECISION DESIGN & Drafting, INC.
Phone: (530) 823-6546 www.pdnd.com
11768 Atwood Rd, Suite 20 Auburn, CA 95603

NAZARETH HOTEL

SF93159A
556 JONES STREET
SAN FRANCISCO, CA 94102

ISSUE STATUS

△	DATE	DESCRIPTION	
	01/26/16	ZD 90%	
	02/19/16	ZD 100%	
⚠	06/29/17	ZD 100%	

DRAWN BY:	S.D. / B.L.
CHECKED BY:	F. CASTILLO
APPROVED BY:	B. McCOMB
DATE:	06/29/17

SHEET TITLE:

DETAILS

SHEET NUMBER

A-10

COMMUNITY OUTREACH MEETING ON A WIRELESS COMMUNICATION FACILITY PROPOSED IN YOUR NEIGHBORHOOD

To: Neighbors within 500 feet of 556 Jones Street, San Francisco, CA

Meeting Information

Date: Thursday, July 7, 2016
Time: 5:30 p.m.
Where: San Francisco Main Branch Library
Latino Room
100 Larkin Street
San Francisco, CA 94102

Applicant

T-Mobile
c/o Modus Inc.
240 Stockton St., 3rd floor
San Francisco, CA 94108

T-Mobile Site Information

Address: 556 Jones Street
San Francisco, CA 94102
APN: 0317-014
Zoning: RC-4

Contact Information

Kevin Bowyer
240 Stockton Street., 3rd floor
San Francisco, CA 94108
(408) 575-8734
kbowyer@modus-corp.com

**This is not a Library Sponsored Program*

T-Mobile has applied for zoning approval to install a new rooftop wireless facility located at 556 Jones Street in San Francisco. The proposed project will enhance T-Mobile's network by adding more spectrum, resulting in faster and more reliable data streaming. This project will improve service for T-Mobile customers with significantly faster data rates for both uploading and downloading.

You are invited to attend an informational community meeting on Thursday, July 7 at 5:30 p.m. at the 100 Larkin Street Main Branch Library in San Francisco. This project will be scheduled for a Planning Commission public hearing after the neighborhood meeting. Architectural plans and photo simulations will be available for your review at the meeting.

If you are unable to attend the meeting and would like to request information, please contact Kevin Bowyer at (408) 219-5442 or kbowyer@modus-corp.com

If you have any questions about the zoning process, you may contact the San Francisco Planning Department at (415) 575-8734.

NOTE: If you require an interpreter to be present at the meeting, please contact our office at 408-219-5442 or kbowyer@modus-corp.com no later than July 1st and we will make every effort to provide you with an interpreter.

NOTIFICACIÓN DE REUNIÓN DE ALCANCE COMUNITARIO SOBRE UNA INSTALACIÓN DE COMUNICACIONES INALÁMBRICAS PROPUESTA PARA SU VECINDARIO
A: Vecinos A Menos De 500 Pies De 556 Jones Street, San Francisco, CA

Reunión informativa
Fecha : Jueves 7 de julio de , el año 2016
Hora: 5:30 pm
Dónde : Principal Biblioteca de San Francisco
Sala Latino
100 Larkin Street San Francisco , CA 94102
Solicitante
T-Mobile c / o Modus Inc.
240 Stockton St., 3er piso San Francisco , CA 94108
T-Mobile Información del sitio
Dirección: 556 Jones Street San Francisco , CA 94102
APN: 0317-014 Zonificación: RC - 4
Información del contacto
Kevin Bowyer 240 Stockton Street. , 3ª planta San Francisco , CA 94108 (408) 575-8734 kbowyer@modus-corp.com * Este no es un programa de biblioteca patrocinados

Pagpupulong Impormasyon Petsa: Huwebes, July 7 , 2016 Time: 5:30 p.m. Saan: San Francisco Main Branch Library Latino Room 100 Larkin Street San Francisco, CA 94102 aplikante T-Mobile c / o Modus Inc. 240 Stockton St., 3rd floor San Francisco, CA 94108 T- Mobile Site Impormasyon Tirahan 556 Jones Street San Francisco, CA 94102 APN : 0317-014 Zoning: RC- 4 Impormasyon sa Pagkontak Kevin Bowyer 240 Stockton Street. , 3rd floor San Francisco, CA 94108 (408) 575-8734 kbowyer@modus-corp.com * Ito ay hindi isang Library Sponsored Program

T-Mobile ha solicitado la aprobación de la zonificación para instalar una nueva instalación inalámbrica en la azotea situado en 556 Jones Street en San Francisco. El proyecto propuesto mejorará la red de T-Mobile mediante la adición de más espectro, lo que resulta en la transmisión de datos más rápida y más fiable. Este proyecto mejorará el servicio para los clientes de T-Mobile con velocidades de datos significativamente más rápidas, tanto para la carga y descarga.

Usted está invitado a asistir a una reunión de la comunidad informativa el jueves 7 de julio a las 17:30 en la calle Larkin Branch Library 100 Main en San Francisco. Este proyecto será programado para una Comisión de Planificación audiencia pública después de la reunión de vecinos. los planos arquitectónicos y las simulaciones de fotos estarán disponibles para su revisión en la reunión.

Si no puede asistir a la reunión y desea solicitar información, póngase en contacto con Kevin Bowyer al (408) 219 a 5.442 o kbowyer@modus-corp.com

Si usted tiene alguna pregunta sobre el proceso de zonificación, puede comunicarse con el Departamento de Planificación de San Francisco al (415) 575 a 8.734.

NOTA: Si necesita un intérprete para asistir a la reunión, por favor, póngase en contacto con nuestra oficina al 408-219-5442 o kbowyer@modus-corp.com a más tardar el 1 de julio y vamos a hacer todo lo posible para ofrecerle un intérprete.

T-Mobile ay inilapat para sa zoning approval upang i-install ng isang bagong rooftop wireless pasilidad na matatagpuan sa 556 Jones Street sa San Francisco. Ang iminungkahing proyekto ay mapahusay ang network T-Mobile sa pamamagitan ng pagdaragdag ng mas maraming spectrum, na nagreresulta sa mas mabilis at mas maaasahan data streaming. Ang proyektong ito ay mapabuti ang serbisyo para sa T-Mobile customer na may makabuluhang mas mabilis na mga rate ng data para sa parehong mga pag-upload at pag-download.

Ikaw ay iniimbitahan na dumalo sa isang pang-impormasyon komunidad pulong sa Huwebes, Hulyo 7 sa 17:30 sa 100 Larkin Street Main Branch Library sa San Francisco. Ang proyektong ito ay naka-iskedyul para sa isang Planning Commission public hearing matapos ang pulong kapitbahayan. Architectural plano at larawan simulations ay magagamit para sa iyong pagsusuri sa pulong.

Kung ikaw ay hindi na dumalo sa pulong at nais na humiling ng impormasyon, mangyaring makipag-ugnay Kevin Bowyer sa (408) 219-5442 o kbowyer@modus-corp.com

Kung mayroon kang anumang mga katanungan tungkol sa proseso zoning, maaari kang makipag-ugnay sa San Francisco Planning Department sa (415) 575-8734.

TANDAAN: Kung kailangan mo ng interpreter upang dumalo sa pulong, mangyaring makipag-ugnay sa aming opisina sa 408-219-5442 o kbowyer@modus-corp.com hindi lalampas sa Hulyo ika-1 at gagawin namin ang bawat pagsusumikap upang magbigay sa iyo ng isang interpreter.

社区外展会议上的无线通信设备的建议在你家附近

為了：在 500 英尺 556 Jones Street **的鄰居，三藩市**

会议信息
日期：周四， 2016 年 7 月 7 日
时间：下午 5:30
其中：旧金山主要分馆
拉丁裔室
100 拉金街
旧金山， CA 94102

申请人
T 移动
C / Ø 公司手法
240 斯托克顿街 3 楼
旧金山，加州 94108

T-Mobile 的网站信息
地址： 556 琼斯街
旧金山， CA 94102
APN： 0317-014
分区： RC-4
联系信息
凯文·鲍耶
240 斯托克顿街， 3 楼
旧金山，加州 94108
（408） 575-8734
kbowyer@modus-corp.com

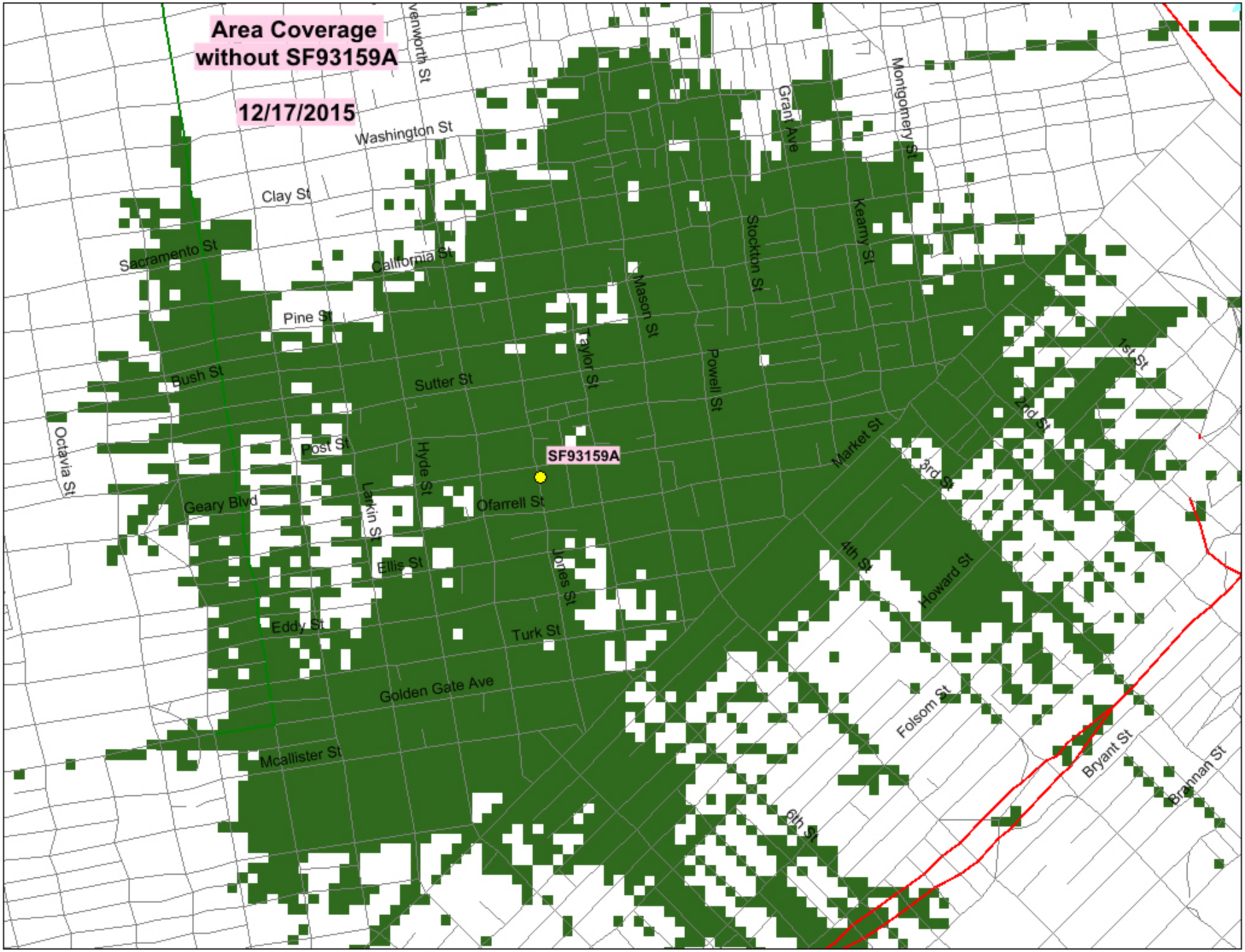
*这是不是一个图书馆赞助计划
Huìyì xìnxī
rìqí: Zhōu sì, 2016 nián 7 yuè 7 rì
shíjiān: Xiàwǔ 5:30
Qízhōng: Jiùjīnshān zhǔyào fēn guǎn
lādīng yì shì
100 lā jīn jiē
jiùjīnshān, CA 94102

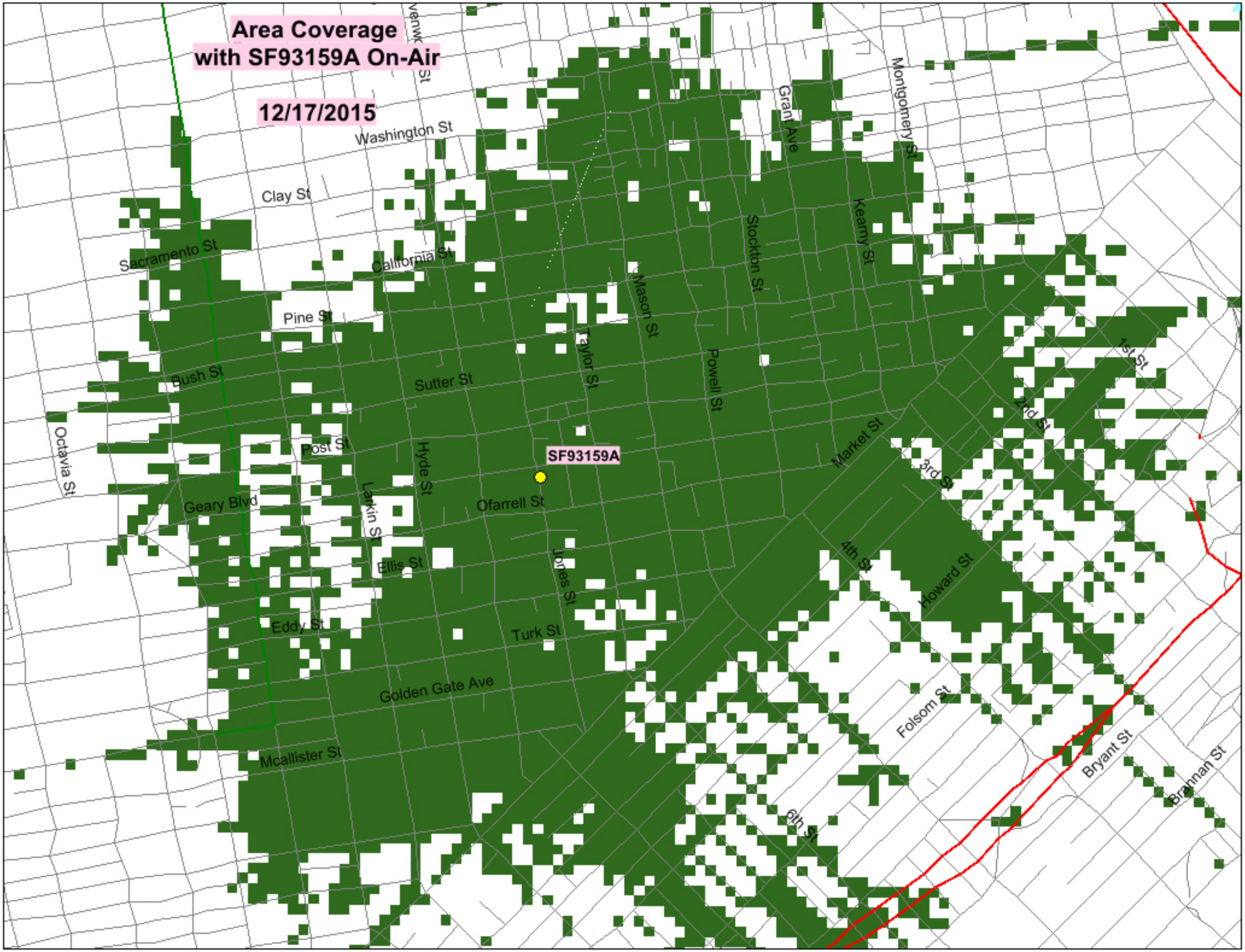
shēnqǐng rén
T yídòng
C/ Ø gōngsī shǒufǎ
240 sī tuō kè dùn jiē 3 lóu
jiùjīnshān, jiāzhōu 94108

T-Mobile de wǎngzhàn xìnxī
dìzhǐ: 556 Qióngsī jiē
jiùjīnshān, CA 94102
APN: 0317-014
Fēnqū: RC-4
liánxì xìnxī
kǎi wén·bào yé
240 sī tuō kè dùn jiē, 3 lóu
jiùjīnshān, jiāzhōu 94108
(408) 575-8734
kbowyer@modus-corp.Com

*zhè shì bùshì yīgè túshū guǎn zànzhù jìhuà

T-Mobile 公司已申请批准的分区来安装位于 556 街琼斯在旧金山一个新屋顶的无线设备。该项目将通过增加更多的频谱，从而能更快，更可靠的数据流增强 T-Mobile 的网络。该项目将改善 T-Mobile 的客户服务，为上传和下载显著更快的数据速率。
您被邀请参加在周四，7 月 7 日一个信息社区会议在下午 5:30 在 100 拉金街主要分馆在旧金山。该项目将安排在附近会后举行的计划委员会公开听证会。建筑计划和模拟图片将用于您在会议审查。
如果您无法出席会议，并想请求信息，请联系凯文·鲍耶（408） 219-5442 或 kbowyer@modus-corp.com
如果您对分区过程中有任何疑问，您可以联系旧金山规划部（415）575-8734。
注：如果您需要口译员出席了会议，请联系我们的办公室 408-219-5442 或 kbowyer@modus-corp.com 不迟于 7 月 1 日，我们将竭尽全力为您提供翻译。
T-Mobile gōngsī yǐ shēnqǐng pīzhǔn dì fēnqū lái ānzhuāng wèiyú 556 jiē qióngsī zài jiùjīnshān yīgè xīn wūdǐng de wúxiàn shèbèi. Gāi xiàngmù jiāng tōngguò zēngjiā gèng duō de pínpǔ, cóng'ér néng gèng kuài, gèng kěkào de shùjù liú zēngqiáng T-Mobile de wǎngluò. Gāi xiàngmù jiāng gǎishàn T-Mobile de kèhù fúwù, wéi shàngchuán hé xiàzài xiǎnzhù gèng kuài de shùjù sùlǜ.
Nín bèi yāoqǐng cānjiā zài zhōu sì,7 yuè 7 rì yīgè xìnxī shèqū huìyì zài xiàwǔ 5:30 Zài 100 lā jīn jiē zhǔyào fēn guǎn zài jiùjīnshān. Gāi xiàngmù jiāng ānpái zài fùjìn huì hòu jǔxíng de jìhuà wěiyuánhuì gōngkāi tīngzhèng huì. Jiànzhú jìhuà hé mónǐ túpiàn jiāng yòng yú nín zài huìyì shěnchá.
Rúguǒ nín wúfǎ chūxí huìyì, bìng xiǎng qǐngqiú xìnxī, qǐng liánxì kǎi wén·bào yé (408)219-5442 huò kbowyer@modus-corp.Com
rúguǒ nín duì fēnqū guòchéng zhōng yǒu rènhé yíwèn, nín kěyǐ liánxì jiùjīnshān guīhuà bù (415)575-8734.
Zhù: Rúguǒ nín xūyào kǒuyì yuán chūxíle huìyì, qǐng liánxì wǒmen de bàngōngshì 408-219-5442 huò kbowyer@modus-corp.Com bù chí yú 7 yuè 1 rì, wǒmen jiāng jiéjìn quánlì wèi nín tígōng fānyì.


Area Coverage
without SF93159A
12/17/2015
Washington St
Clay St
Sacramento St
California St
Pine St
Bush St
Sutter St
Post St
Geary Blvd
Ofarrell St
Ellis St
Eddy St
Turk St
Golden Gate Ave
Mcallister St
Octavia St
Larkin St
Hyde St
Jones St
Taylor St
Mason St
Powell St
Stockton St
Grant Ave
Kearny St
Montgomery St
1st St
2nd St
3rd St
4th St
6th St
Market St
Howard St
Folsom St
Bryant St
Brannan St
SF93159A


Area Coverage
with SF93159A On-Air
12/17/2015
SF93159A
Washington St
Clay St
Sacramento St
California St
Pine St
Bush St
Sutter St
Post St
Geary Blvd
Ofarrell St
Ellis St
Eddy St
Turk St
Golden Gate Ave
Mcallister St
Octavia St
Laguna St
Hyde St
Larkin St
Jones St
Taylor St
Mason St
Powell St
Stockton St
Grant Ave
Kearny St
Montgomery St
Market St
1st St
2nd St
3rd St
4th St
6th St
Howard St
Folsom St
Bryant St
Brannan St

HAMMETT & EDISON, INC.
CONSULTING ENGINEERS
BROADCAST & WIRELESS

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EDWARD EDISON, P.E.
1920-2009

DANE E. ERICKSEN, P.E.
ANDREA L. BRIGHT, P.E.
CONSULTANTS

BY E-MAIL ARIS.ANTONS@T-MOBILE.COM

May 16, 2017

Mr. Aris Antons
T-Mobile West LLC
1855 Gateway Boulevard, Suite 900
Concord, California 94520-8456

Dear Aris:

As requested, we have conducted the review required by the City of San Francisco of the capacity data that T-Mobile will submit as part of its application package for its base station proposed to be located at 556 Jones Street (Site No. SF93159A). This is to fulfill the submittal requirements for Planning Department review.

Executive Summary

We concur with the downlink speed data provided by T-Mobile, which shows downlink speeds below T-Mobile's target speed of 2 megabits per second.

T-Mobile proposes to install nine directional panel antennas – six Ericsson Model AIR21 and three RFS Model APXVF18-C-A20 – around the top of the elevator penthouse. The antennas would employ 4° downtilt, would be mounted at an effective height of about 87 feet above ground, 14½ feet above the main roof and 2 feet above the roof of the stairwell penthouse, and would be oriented in identical groups of three toward 70°T, 190°T, and 320°T, to provide service in all directions. The antennas oriented toward 70°T and 190°T would be enclosed by a view screen shroud on the east and south faces of the elevator penthouse. The maximum effective radiated power in any direction would be 6,000 watts, representing simultaneous operation at 2,200 watts for AWS, 2,200 watts for PCS, and 1,600 watts for 700 MHz service.

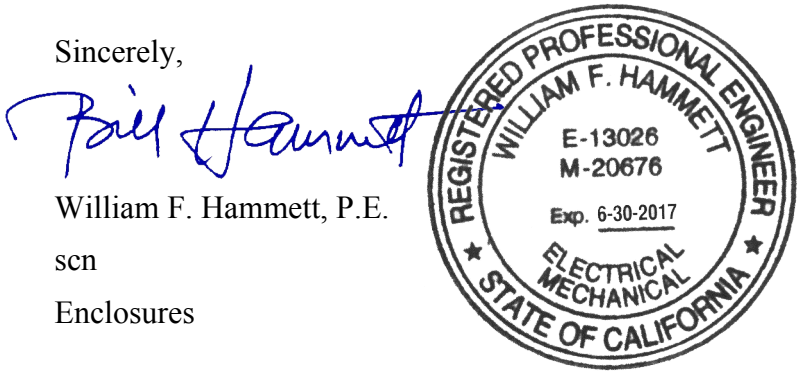
T-Mobile provided for review certain information on capacity issues it reports in the vicinity of the proposed site, attached for reference. T-Mobile claims that its base stations in the area are congested and presents data showing over-utilized sites with a large number of connected users during busy times. This congestion would result in subscribers experiencing poor downlink speeds, which T-Mobile defines as less than 2 megabits per second ("Mbps"). T-Mobile also provided measured download speed data during evening busy times at several locations near the proposed site, attached for reference, showing speeds less than 2 Mbps at certain locations.

Some of the data provided by T-Mobile, like utilization and connected-user numbers, is difficult to independently verify. However, downlink speeds can be easily verified by commercially available software. We performed downlink speed tests on May 9, 2017, during evening hours using such software at the same locations as T-Mobile, and we consistently observed speeds less than 2 Mbps.

Based on the measurement data, we concur with T-Mobile's assessment that downlink speeds during busy times in the area are generally below 2 Mbps. T-Mobile's assertion that this is due to network congestion is reasonable, and operation from the proposed facility should help alleviate the capacity issues.

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

Sincerely,

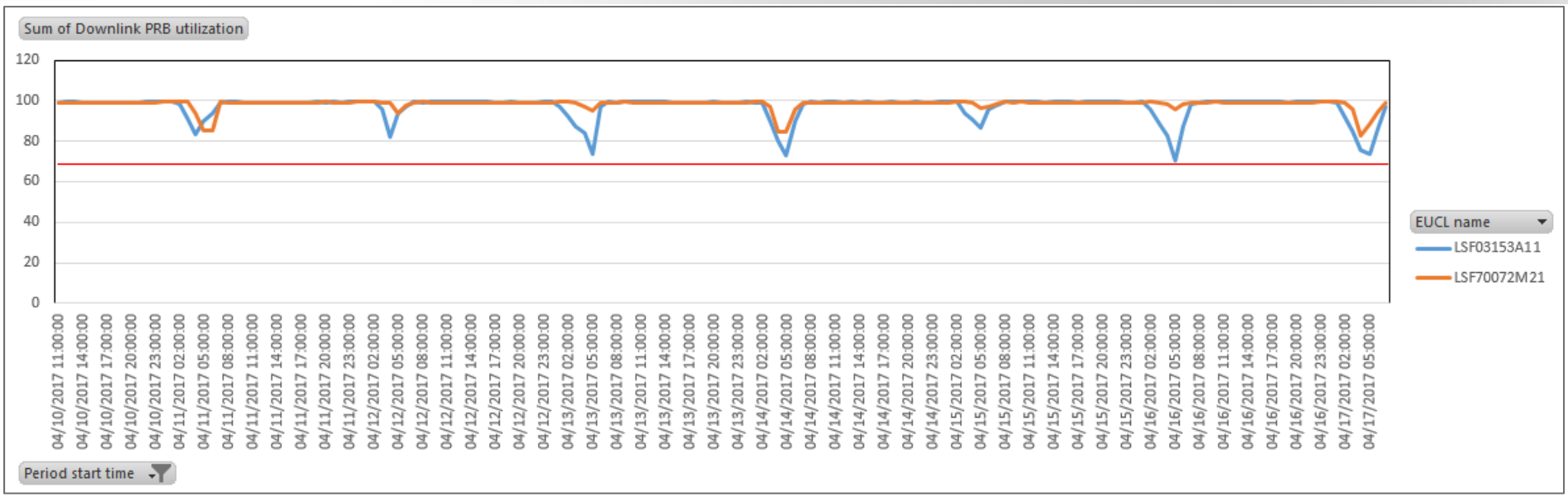


William F. Hammett, P.E.

scn

Enclosures

DL PRB Utilization per hour on current serving cells.



- The average PRB utilization on the nearby cells peaks out at 100% for approx. 15hours each day. TARGET < 70%.
- Even at low traffic times PRB utilization rarely drops below 70%.

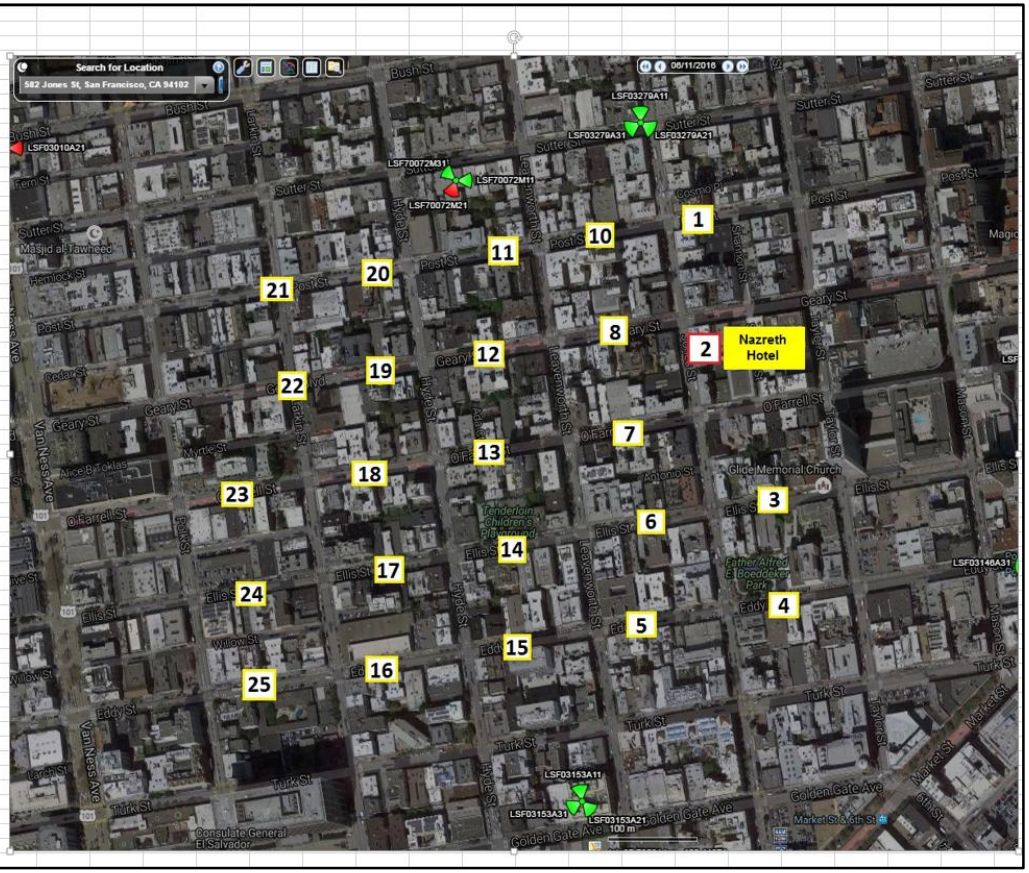
Field Measurements from multiple data testing in the congested area during Busy Hour showing POOR Throughputs (Test performed between 8 to 10 PM)

Location 1	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 279	SNR: 0 to 2	-84	Ping: 38ms DL: 2.01mbps UL: 13.75mbps	Ping: 36ms DL: 5.50mbps UL: 13.96mbps
	L700	PCI: 72	SNR: -3 to 0	-115	Ping: 78ms DL: 0.13mbps UL: 0.52mbps	Ping: 731ms DL: 0.08mbps UL: 0.28mbps
	U1900	SC: 336	ECLO: -10	-69	Pign: 161ms DL: 4.54mbps UL: 1.16mbps	Ping: 105ms DL: 0.36mbps UL: 1.21mbps
Location 02	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 49	SNR: 3 to 7	-91	Ping: 47ms DL: 0.71mbps UL: 11.68mbps	Ping: 36ms DL: 0.94mbps UL: 11.56mbps
	L700	PCI: 72	SNR: 8 to 10	-91	Ping: 70ms DL: 0.34mbps UL: 0.01mbps	Ping: 84ms DL: 0.82mbps UL: 0.05mbps
	U1900	SC: 148	ECLO: -12	-74	Ping: 211ms DL: 4.12mbps UL: 1.12mbps	Ping: 243ms DL: 4.23mbps UL: 1.02mbps
Location 03	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 49	SNR: -3 to 0	-98	Ping: 36ms DL: 0.38mbps UL: 10.26mbps	Ping: 44ms DL: 0.24mbps UL: 4.23mbps
	L700	PCI: 72	SNR: 3 to 5	-100	Ping: 74ms DL: 0.28mbps UL: 0.75mbps	Ping: 74ms DL: 0.28mbps UL: 0.95mbps
	U1900	SC: 333	ECLO: -11	-79	Ping: 87ms DL: 0.68mbps UL: 1.01mbps	Ping: 77ms DL: 1.34mbps UL: 1.03mbps
Location 04	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 49	SNR: -5 to -2	-99	Ping: 38ms DL: 0.37mbps UL: 3.56mbps	Ping: 79ms DL: 0.26mbps UL: 3.89mbps
	L700	PCI: 72	SNR: -3 to 1	-97	Ping: 65ms DL: 0.15mbps UL: 0.04mbps	Ping: 109ms DL: 0.13mbps UL: 0.16mbps
	U1900	SC: 148	ECLO: -13	-81	Ping: 409ms DL: 2.43mbps UL: 0.77mbps	Ping: 85ms DL: 0.86mbps UL: 0.51mbps
Location 05	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 82	SNR: 0 to 3	-82	Ping: 49ms DL: 0.67mbps UL: 5.12mbps	Ping: 49ms DL: 0.62mbps UL: 3.90mbps
	L700	PCI: 72	SNR: -3 to -1	-92	Ping: 74ms DL: 0.24mbps UL: 0.02mbps	Ping: 89ms DL: 0.44mbps UL: 0.03mbps
	U1900	SC: 420	ECLO: -10	-68	Ping: 103ms DL: 1.68mbps UL: 0.64mbps	Ping: 75ms DL: 1.95mbps UL: 0.02mbps
Location06	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 72	SNR: -7 to -3	-89	Ping: 88ms DL: 0.21mbps UL: 4.65mbps	Ping: 142ms DL: 0.33mbps UL: 4.31mbps
	L700	PCI: 72	SNR: 0 to 4	-88	Ping: 75ms DL: 0.46mbps UL: 0.03mbps	Ping: 104ms DL: 0.42mbps UL: 0.02mbps
	U1900	SC: 333	ECLO; -13	-68	Ping; 235ms DL: 4.09mbps UL: 1.03mbps	Ping: 86ms DL: 3.86mbps UL: 0.98mbps
Location 07	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 72	SNR: -3 to 0	-92	Ping: 93ms DL: 0.42mbps UL: 4.86mbps	Ping: 81ms DL: 0.35mbps UL: 1.86mbps
	L700	PCI: 72	SNR: 0 to 6	-91	Ping: 60ms DL: 0.69mbps UL: 1.02mbps	Ping: 278ms DL: 0.55mbps UL: 0.51mbps
	U1900	SC: 333	ECLO: -11	-73	Ping: 286ms DL: 4.26mbps UL: 0.94mbps	Ping: 81ms DL: 6.75mbps UL: 1.02mbps
Location 08	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -5 to -3	-97	Ping: 40ms DL: 0.09mbps UL: 2.13mbps	Ping: 289ms DL: 0.07mbps UL: 1.43mbps
	L700	PCI: 72	SNR: 3 to 5	-98	Ping: 61ms DL: 0.39mbps UL: 0.09mbps	Ping: 1085ms DL: 0.27mbps UL: 0.03mbps
	U1900	SC: 333	ECLO: -12	-68	Ping: 94ms DL: 2.30mbps UL: 0.75mbps	Ping: 89ms DL: 2.88mbps UL: 0.04mbps
Location 09	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21					
Notes:	L700					
No Location 9	U1900					
Location 10	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 165	SNR: 3 to 6	-80	Ping: 36ms DL: 5.20mbps uL: 16.05mbps	Ping: 41ms DL: 3.70mbps UL: 12.05mbps
	L700	PCI: 72	SNR: 2 to 4	-100	Ping: 62ms DL: 0.22mbps UL: 0.04mbps	Ping: 471ms DL: 0.31mbps UL: 0.42mbps
	U1900	SC: 6	ECLO: -12	-61	Ping: 83ms DL: 7.89mbps UL: 0.48mbps	Ping: 82ms DL: 6.92mbps UL: 1.03mbps
Location 11	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 3 to 7	-86	Ping: 50ms DL: 0.54mbps UL: 4.84mbps	Ping: 37ms DL: 0.46mbps UL: 0.05mbps
	L700	PCI: 34	SNR: -2 to 0	-107	Ping: 52ms DL: 0.83mbps UL: 1.05mbps	Ping: 180ms DL: 0.84mbps UI: 3.74mbps
	U1900	SC: 224	ECLO: -12	-55	Ping: 593ms DL: 2.00mbps UL: 0.02mbps	Ping: 385ms DL: 1.05mbps uL: 0.05mbps

- Real time data testing shows data throughputs are very poor due to Network congestion.

Field Measurements from multiple data testing in the congested area during Busy Hour showing POOR Throughputs (Test performed between 8 to 10 PM) Contd …

Location 12	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 7 to 9	-81	Ping: 38ms DL: 0.43mbps UL: 2.51mbps	Ping: 37ms DL: 0.72mbps UL: 2.74mbps
	L700	PCI: 34	SNR: 0 to 4	-102	Ping: 45ms DL: 1.63mbps UL: 2.56mbps	Ping: 45ms DL: 1.63mbps UL: 3.30mbps
	U1900	SC:224	ECLO: -13	-55	Ping: 221ms DL: 3.31mbps UL: 0.35mbps	Ping: 453ms DL: 1.04mbps UL: 0.04mbps
Location 13	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 8 to 10	-95	Ping: 41ms DL: 0.19mbps UL: 2.51mbps	Ping: 46ms DL: 0.12mbps UL: 2.34mbps
	L700	PCI: 34	SNR: -2 to 1	-103	Ping: 37ms DL: 1.49mbps UL: 3.25mbps	Ping: 49ms DL: 1.42mbps UL: 0.02mbps
	U1900	SC: 224	ECLO: -13	-73	Ping: 76ms DL: 1.94mbps UL: 0.35mbps	Ping: 68ms DL: 0.72mbps UL: 0.03mbps
Location14	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 6 to 9	-92	Ping: 42ms DL: 0.68mbps UL: 4.11mbps	Ping: 51ms DL: 0.98mbps UL: 3.87mbps
	L700	PCI: 260	SNR: -3 to 1	-105	Ping: 55ms DL: 0.39mbps UL: 0.97mbps	Ping: 312ms DL: 0.43mbps UL: 0.78mbps
	U1900	SC: 224	ECLO: -13	-76	Ping: 265ms DL: 1.90mbps UL: 0.35mbps	Ping: 127ms DL: 0.98mbps UL: 0.21mbps
Location 15	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -4 to 0	-99	Ping: 46ms DL: 0.09mbps UL: 2.25mbps	Ping: 38ms DL: 0.87mbps UL: 1.85mbps
	L700	PCI: 260	SNR: 0 to 3	-98	Ping: 50ms DL: 0.58mbps UL: 1.78mbps	Ping: 42ms DL: 0.66mbps UL: 1.01mbps
	U1900	SC: 224	ECLO: -12	-77	Ping: 265ms DL: 0.74mbps UL: 0.28mbps	Ping: 392ms DL: 0.55mbps UL: 0.43mbps
Location 16	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -4 to -1	-104	Ping: 44ms DL: 0.09mbps UL: 1.41mbps	Ping: 39ms DL: 0.21mbps UL: 1.03mbps
	L700	PCI: 260	SNR: -3 to 1	-106	Ping: 65ms DL: 0.49mbps UL: 0.03mbps	Ping: 45ms DL: 0.54ms DL: 0.12mbps
	U1900	SC: 405	ECLO: -12	-79	Ping: 243ms DL: 3.85mbps UL: 0.35mbps	Ping: 98ms DL: 2.44mbps UL: 0.20mbps
Location 17	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -1 to 3	-101	Ping: 39ms DL: 0.16mbps UL: 1.99mbps	Ping: 49ms DL: 0.45mbps UL: 1.54mbps
	L700	PCI: 260	SNR: -4 to -1	-109	Ping: 47ms DL: 0.20mbps UL: 0.30mbps	Ping: 85ms DL: 0.22mbps UL: 0.27mbps
	U1900	SC: 224	ECLO: -14	-73	Ping: 107ms DL: 2.40mbps UL: 0.35mbps	Ping: 201ms DL: 1.56mbps UL: 0.32mbps
Location18	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 9 to 11	-89	Ping: 37ms DL: 0.26mbps UL: 1.88mbps	Ping: 40ms DL: 0.36mbps UL: 1.03mbps
	L700	PCI: 34	SNR: -2 to 2	-102	Ping: 38ms DL: 1.17mbps UL: 0.05mbps	Ping: 88ms DL: 1.03mbps UL: 0.55mbps
	U1900	SC: 224	ECLO: -13	-69	Ping: 71ms DL: 2.21mbps UL: 0.02mbps	Ping: 328ms DL: 1.46mbps UL: 0.58mbps
Location 19	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: 7 to 10	-87	Ping: 38ms DL: 0.16mbps UL: 0.03mbps	Ping: 35ms DL: 0.18mbps UL: 0.48mbps
	L700	PCI: 34	SNR: 5 to 7	-99	Ping: 47ms DL: 1.44mbps UL: 2.01mbps	Ping: 54ms DL: 1.32mbps UL: 1.02mbps
	U1900	SC: 224	ECLO: -12	-70	Ping: 77ms DL: 2.65mbps UL: 0.43mbps	Ping: 218ms DL: 2.05mbps UL: 0.88mbps
Location 20	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 34	SNR: 0 to 3	-83	Ping: 44ms DL: 3.93mbps UL: 10.04mbps	Ping: 73ms DL: 1.84mbps UL: 8.04mbps
	L700	PCI: 34	SNR: 12 to 14	-90	Ping: 48ms DL: 2.75mbps UL: 3.01mbps	Ping: 38ms DL: 1.89mbps UL: 3.20mbps
	U1900	SC: 330	ECLO: -9	-60	Ping: 77ms DL: 3.22mbps UL: 1.08mbps	Ping: 90ms DL: 2.01mbps UL: 1.04mbps
Location 21	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 227	SNR: -5 to -3	-94	Ping: 57ms DL: 0.55mbps UL: 13.34mbps	Ping: 52ms DL: 0.75mbps UL: 9.38mbps
	L700	PCI: 34	SNR: 12 to 14	-89	Ping: 61ms DL: 5.15mbps UL: 3.04mbps	Ping: 42ms DL: 4.91ms DL: 3.05mbps
	U1900	SC: 8	ECLO: -12	-64	Ping: 335ms DL: 8.50mbps UL: 0.04mbps	Ping: 133ms DL: 6.87mbps UL: 0.83mbps
Location 22	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -2 to 1	-99	Ping: 59ms DL: 0.13mbps UL: 4.13mbps	Ping: 48ms DL: 0.44mbps UL: 7.01mbps
	L700	PCI: 465	SNR: -5 to -2	-104	Ping: 44ms DL: 0.73mbps UL: 3.23mbps	Ping: 68ms DL: 1.01mbps UL: 2.97mbps
	U1900	SC: 428	ECLO: -13	-79	Ping: 115ms DL: 3.66mbps UL: 0.75mbps	Ping: 421ms DL: 2.07ms DL: 1.03mbps
Location 23	Technology	Serving Cell ID	RF Quality	Signal Strength	Speed Test 1	Speed Test 2
	L21	PCI: 394	SNR: -4 to -2	-105	Ping: 38ms DL: 0.07mbps UL: 0.84mbps	Ping: 43ms DL: 0.13mbps UL: 0.72mbps
	L700	PCI: 34	SNR: -4 to -2	-107	Ping: 32ms DL: 0.44mbps UL: 1.52mbps	Ping: 38ms DL: 0.34mbps UL: 1.03mbps
	U1900	SC: 503	ECLO: -9	-110	Network Communication Issues	Network Communcation Issues



T-Mobile West LLC • Proposed Base Station (Site No. SF93159A)
556 Jones Street • San Francisco, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by T-Mobile West LLC, a personal wireless telecommunications carrier, to evaluate the base station (Site No. SF93159A) proposed to be located at 556 Jones 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 T-Mobile, including zoning drawings by Precision Design & Drafting, Inc., dated May 18, 2016. It should be noted that the calculations 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.*

There are reported no wireless base stations installed at the site.

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.*

T-Mobile proposes to install nine directional panel antennas above the roof of the six-story mixed-use building located at 556 Jones Street in San Francisco. 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.*

T-Mobile proposes to install nine directional panel antennas – six Ericsson Model AIR21 and three RFS Model APXVF18-C-A20 – around the top of the elevator penthouse. The antennas would employ 4° downtilt, would be mounted at an effective height of about 87 feet above ground, 14½ feet above the main roof and about 2 feet above the roof of the stairwell penthouse, and would be oriented in identical groups of three toward 70°T, 190°T, and 320°T, to provide service in all directions. The antennas oriented toward 70°T and 190°T would be enclosed by a view screen shroud on the east and south faces of the elevator penthouse.

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.*

Since there are no antennas currently installed at the site, existing RF levels for a person at the nearest access areas are presumed to be well below the public limit. Similarly, existing RF levels for a person at ground near the site are presumed to be well below the 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 in any direction would be 6,000 watts, representing simultaneous operation at 2,200 watts for AWS, 2,200 watts for PCS, and 1,600 watts for 700 MHz service.

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

The maximum calculated RF exposure level at any nearby building is 14% of the public exposure limit; this occurs at the taller building to the north, across Geary Street.

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 T-Mobile operation is calculated to be 0.0037 mW/cm^2, which is 0.40% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be well below the public exposure 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 45 and 9 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.

Due to their mounting location and height, the T-Mobile antennas would not be accessible to unauthorized persons, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, 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 T-Mobile and of the property owner. No access within 9 feet directly in front of the antennas themselves, such as might occur during certain maintenance activities on the glass stairwell penthouse roof, 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 a red stripe be painted around the edge of the stairwell penthouse roof, as shown in Figure 1, to alert authorized personnel to the possible presence of RF levels in excess of the public and occupational limits. It is recommended that explanatory signs* be posted at the roof access door, at the red striping, on the face of the enclosure in front of the antennas there, and at the antennas on the north face of the elevator penthouse, readily visible from any angle of approach to persons who might need to work within that distance.

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.

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

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by T-Mobile West LLC at 556 Jones Street in San Francisco, California, will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. 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.

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

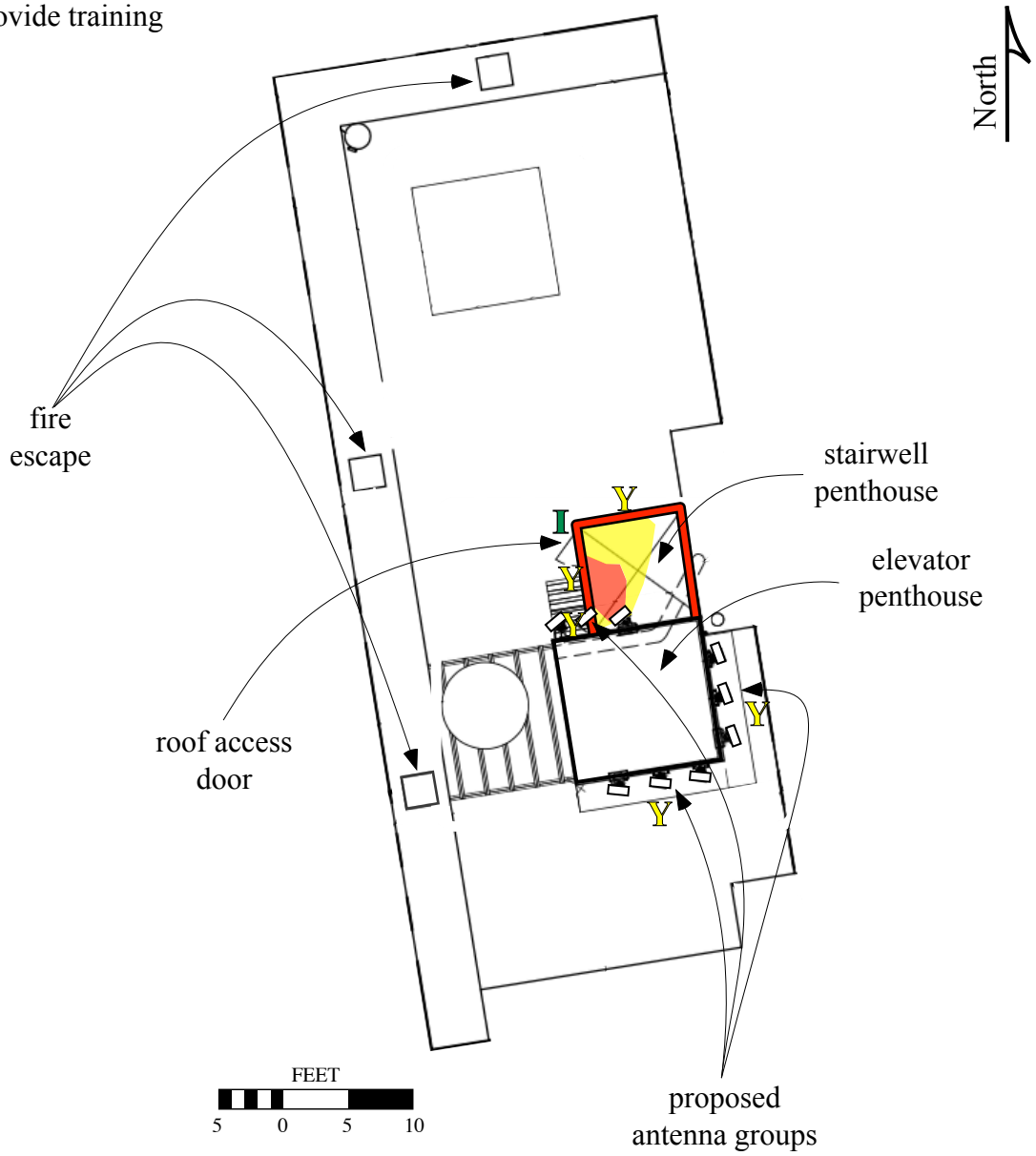
June 2, 2016

T-Mobile West LLC • Proposed Base Station (Site No. SF93159A)
556 Jones Street • San Francisco, California

Calculated RF Exposure Levels on Roof

Recommended Mitigation Measures

- Paint red stripe around glass penthouse roof
- Post explanatory signs
- Provide training



Notes: See text.
Base drawing from Precision Design & Drafting, Inc., dated May 18, 2016.
Calculations performed according to OET Bulletin 65, August 1997.

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

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 : *T-Mobile* **Planner:** *Seema Adina*

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

Project Address/Location: *556 Jones St*

Site ID: *2348* **SiteNo.:** *SF93159A* **Report Dated:** *6/2/2016*

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: **0**

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: **6000** 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: **14** %

Distance to this nearby building or structure: **75** 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: **0.0037** mW/cm^2 Maximum RF Exposure Percent: **0.4** %

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: **45**

☑ Occupational Exclusion Area — Occupational Exclusion In Feet: **9**

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 9 antennas existing operated by T-Mobile installed on the roof top of the building at 556 Jones St. Exisiting RF levels at ground level were around 1% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. T-Mobile proposes to install 0 new antenna. The antennas are mounted at a height of 89 feet above the ground. The estimated ambient RF field from the proposed T-Mobile transmitters at ground level is calculated to be 0.0037 mW/sq cm., which is 0.4 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 45 feet and does not reach any publicly accessible areas. Warnings signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Worker should not have access to within 9 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: 6/14/2016

Signed: LK

Larry Kessler
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