



# SAN FRANCISCO PLANNING DEPARTMENT

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## Executive Summary Conditional Use Authorization

HEARING DATE: MARCH 8, 2018

*Date:* March 1, 2018  
*Case No.:* **2016-014839CUA**  
*Project Address:* **4093 24th Street**  
*Current Zoning:* NCD (24th Street – Noe Valley Neighborhood Commercial District)  
40-X Height and Bulk District  
*Block/Lot:* 6507/017  
*Project Sponsor:* AT&T Mobility  
c/o Misako Hill of J5 Infrastructure Partners  
5001 Executive Parkway, 4W550H  
San Ramon, CA 94583  
*Staff Contact:* Ashley Lindsay – (415) 575-9178  
[Ashley.Lindsay@sfgov.org](mailto:Ashley.Lindsay@sfgov.org)  
*Recommendation:* Approval with Conditions

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### PROJECT DESCRIPTION

The proposal is to install a new unmanned AT&T Mobility Macro Wireless Telecommunications Facility consisting of installation of twelve (12) new panel antennas; installation of twenty (20) remote radio units; and installation of ancillary equipment.

Three (3) new rooftop FRP faux vents are to be located 6' from the east facing building edge and will be 5'-1" above the existing roof level; the faux vents will screen three (3) antennas. One (1) new rooftop FRP box will be located 12'-1" from the west facing building edge, and will be 5'-8" above existing roof level; the FRP box will screen nine (9) antennas. A second FRP box will screen ancillary equipment. All FRP screens, cabling, and ancillary equipment will be painted to match the existing building as part of the AT&T Mobility Telecommunications Network.

### SITE DESCRIPTION AND PRESENT USE

The Project Site is located on Assessor's Block 6507, Lot 017. The lot is located near the southeast corner of Castro Street and 24th Street. The three-story building was constructed in 1900, and is within the eligible 24th Street Commercial Corridor Historic District, as identified for purposes of CEQA. The present use of the building is residential use, over ground-floor commercial.

### SURROUNDING PROPERTIES AND NEIGHBORHOOD

The Project Site is situated within the Noe Valley neighborhood. Surrounding uses include a mix of residential and commercial, and public uses throughout the NCD and Public Zoned Districts. In the blocks surrounding the Project Site, the buildings generally range from 1 to 3 stories in height.

## ENVIRONMENTAL REVIEW

The Project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption (Construction of New Communications Facilities).

## HEARING NOTIFICATION

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	February 16, 2018	February 14, 2018	22 days
Posted Notice	20 days	February 16, 2018	February 16, 2018	20 days
Mailed Notice	20 days	February 16, 2018	February 16, 2018	20 days

## PUBLIC COMMENT/COMMUNITY OUTREACH

The Project Sponsor held a community meeting on November 14, 2016 at 6:00pm at the Noe Valley Branch Library, 451 Jersey Street, San Francisco, CA 94114. Four members of the community attended the meeting.

As of March 1, 2018, 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 NCD Zoning 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 for the proposed site at ground level would be 38% 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.
- AT&T Mobility has an updated Five Year Plan on file with the Department that includes the approximate longitudinal and latitudinal coordinates of proposed locations, including the Project Site.

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

## **REQUIRED COMMISSION ACTION**

Pursuant to Sections 303(c) and 728 of the Planning Code, a Conditional Use Authorization is required for a new installation of a WTS facility (Utility and Infrastructure Use) in the NCD 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 Eligible 24th Street Commercial Corridor 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 AT&T Mobility, the Project would provide enhanced coverage in an area that currently experiences gaps in coverage and capacity.
- Based on the analysis provided by AT&T Mobility, the Project would provide additional capacity in an area that currently experiences insufficient service during periods of high data usage.
- Based on independent third-party evaluation, the maps, data, and conclusions about service coverage and capacity provided by AT&T Mobility are accurate.

<b>RECOMMENDATION:</b>	<b>Approval with Conditions</b>
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### **Attachments:**

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





Attachment Checklist

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Draft Motion        | <input checked="" type="checkbox"/> Project sponsor submittal         |
| <input checked="" type="checkbox"/> Zoning District Map | <input checked="" type="checkbox"/> Drawings: <u>Proposed Project</u> |
| <input type="checkbox"/> Height & Bulk Map              | <input checked="" type="checkbox"/> Check for legibility              |
| <input checked="" type="checkbox"/> Block Book Map      | <input checked="" type="checkbox"/> Community Outreach Report         |
| <input checked="" type="checkbox"/> Sanborn Map         | <input checked="" type="checkbox"/> Coverage Maps                     |
| <input checked="" type="checkbox"/> Aerial Map          | <input checked="" type="checkbox"/> RF Report                         |
| <input checked="" type="checkbox"/> Context Photos      | <input checked="" type="checkbox"/> DPH Approval                      |
| <input checked="" type="checkbox"/> Photo Simulations   | <input checked="" type="checkbox"/> Independent Evaluation            |

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



# SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)

- |  |  |
|--|--|
| <input type="checkbox"/> Affordable Housing (Sec. 415)           | <input type="checkbox"/> First Source Hiring (Admin. Code) |
| <input type="checkbox"/> Jobs Housing Linkage Program (Sec. 413) | <input type="checkbox"/> Child Care Requirement (Sec. 414) |
| <input type="checkbox"/> Downtown Park Fee (Sec. 412)            | <input type="checkbox"/> Other                             |

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## Planning Commission Draft Motion

HEARING DATE: MARCH 8, 2018

*Date:* March 1, 2018  
*Case No.:* **2016-014839CUA**  
*Project Address:* **4093 24th Street**  
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San Ramon, CA 94583  
*Staff Contact:* Ashley Lindsay – (415) 575-9178  
[Ashley.Lindsay@sfgov.org](mailto:Ashley.Lindsay@sfgov.org)

ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 303 AND 728 TO INSTALL A NEW UNMANNED AT&T MOBILITY MACRO WIRELESS TELECOMMUNICATIONS FACILITY CONSISTING OF INSTALLATION OF TWELVE (12) NEW PANEL ANTENNAS, THREE (3) ANTENNAS ARE TO BE SCREENED WITHIN THREE (3) NEW FRP FAUX VENTS, AND NINE (9) ANTENNAS ARE TO BE SCREENED WITHIN ONE (1) FRP BOX; INSTALLATION OF TWENTY (20) REMOTE RADIO UNITS; AND INSTALLATION OF ANCILLARY EQUIPMENT, WHERE SOME EQUIPMENT WILL BE SCREENED WITHIN A SECOND FRP BOX AS PART OF THE AT&T MOBILITY TELECOMMUNICATIONS NETWORK. ALL FRP SCREENS, CABLING, AND ANCILLARY EQUIPMENT WILL BE PAINTED TO MATCH THE EXISTING BUILDING. THE SUBJECT PROPERTY IS LOCATED WITHIN THE NCD (24TH STREET – NOE VALLEY NEIGHBORHOOD COMMERCIAL DISTRICT), AND THE 40-X HEIGHT AND BULK DISTRICTS.

### PREAMBLE

On November 29, 2016, AT&T Mobility (hereinafter "Project Sponsor"), submitted an application (hereinafter "Application"), for a Conditional Use Authorization on the property at 4093 24th Street, Block 6507, Lot 017 (hereinafter "Project Site") to install a new unmanned AT&T Mobility Macro Wireless Telecommunications Facility consisting of installation of twelve (12) new panel antennas, three (3) antennas are to be screened within three (3) new FRP faux vents, and nine (9)

antennas are to be screened within one (1) FRP box; installation of twenty (20) remote radio units; and installation of ancillary equipment, where some equipment will be screened within a second FRP box as part of the AT&T Mobility Telecommunications Network. All FRP screens, cabling, and ancillary equipment will be painted to match the existing building. The subject property is located within the NCD (24th Street – Noe Valley Neighborhood Commercial District), and the 40-X Height and Bulk Districts.

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.

The Planning Department, Office of the Commission Secretary, is the custodian of records for these actions, and such records are located at 1650 Mission Street, Fourth Floor, San Francisco, California.

On March 8, 2018 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. 2016-014839CUA, 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 6507, Lot 017. The lot is located near the southeast corner of Castro Street and 24th Street. The three-story building was constructed in 1900, and is within the eligible 24<sup>th</sup> Street Commercial Corridor Historic District. The present use of the building is residential use over ground-floor commercial.
3. **Surrounding Properties and Neighborhood.** The Project Site is situated within the Noe Valley neighborhood. Surrounding uses include a mix of residential and commercial, and public uses throughout the NCD and Public zoned Districts. In the blocks surrounding

the Project Site, the buildings generally range from 1 to 3 stories in height.

4. **Project Description.** The proposal is to install a new unmanned AT&T Mobility Macro Wireless Telecommunications Facility consisting of installation of twelve (12) new panel antennas; installation of twenty (20) remote radio units; and installation of ancillary equipment.

Three (3) new rooftop FRP faux vents are to be located 6' from the east facing building edge and will be 5'-1" above the existing roof level; the faux vents will screen three (3) antennas. One (1) new rooftop FRP box will be located 12'-1" from the west facing building edge, and will be 5'-8" above existing roof level; the FRP box will screen nine (9) antennas. A second FRP box will screen ancillary equipment. All FRP screens, cabling, and ancillary equipment will be painted to match the existing building as part of the AT&T Mobility Telecommunications Network.

5. **Past History and Actions.** The Planning Commission adopted the *Wireless Telecommunications Services (WTS) Facilities Siting Guidelines* ("Guidelines") for the installation of wireless telecommunications facilities in 1996. These Guidelines set forth the land use policies and practices that guide the installation and approval of wireless facilities throughout San Francisco. A large portion of the Guidelines was dedicated to establishing location preferences for these installations. The Board of Supervisors, in Resolution No. 635-96, provided input as to where wireless facilities should be located within San Francisco. The Guidelines were updated by the Commission in 2003 and again in 2012, requiring community outreach, notification, and detailed information about the facilities to be installed.

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

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

Section 8.1 of the WTS Siting Guidelines further stipulates that the Planning Commission will not approve WTS applications for Preference 5 or below Location Sites unless the application describes (a) what publicly-used building, co-location site or other Preferred

Location Sites are located within the geographic service area; (b) what good faith efforts and measures were taken to secure these more Preferred Locations, (c) explains why such efforts were unsuccessful; and (d) demonstrates that the location for the site is essential to meet demands in the geographic service area and the Applicant's citywide networks.

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

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

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 WCS, AWS, PCS, and 700 Megahertz (MHZ) bands, which are regulated by the Federal Communications Commission (FCC) and must comply with the FCC-adopted health and safety standards for electromagnetic radiation and radio frequency radiation.
8. **Radiofrequency (RF) Emissions:** The Project Sponsor retained Hammett & Edison, Inc., a radio engineering consulting firm, to prepare a report describing the expected RF emissions from the proposed facility. Pursuant to the Guidelines, the Department of Public Health reviewed the report and determined that the proposed facility complies with the standards set forth in the Guidelines.
9. **Department of Public Health Review and Approval.** The Project was referred to the Department of Public Health (DPH) for emissions exposure analysis. Radio-Frequency (RF) levels from the proposed AT&T Mobility transmitters at any nearby publicly accessible building or area would be 38% of the FCC public exposure limit.

There are no existing antennas on the rooftop of the building at 4093 24th 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. AT&T Mobility proposes to install twelve (12) new antennas. The height to the top of the antennas is approximately 43 feet above the ground. The estimated RF field from the proposed Verizon Wireless transmitters at ground level is calculated to be 0.026 mW/sq cm., which is 4.3% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the

public exposure limit extends 69 feet, and the three dimensional perimeter of RF level equal to the occupational exclusion limit extends 27 feet; both limits do 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 27 feet of the front of the antennas while they are in operation.

10. **Coverage and Capacity Verification.** The maps, data, and conclusion provided by AT&T Mobility to demonstrate the need for outdoor and indoor coverage and capacity have been determined by Hammett & Edison, 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 on November 14, 2016 at 6:00pm at the Noe Valley Branch Library, 451 Jersey Street, San Francisco, CA 94114. Four 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 October 2017.
14. **Public Comment.** As of March 1, 2018, the Department has not received any calls or testimony raising concerns about, or expressing support for, the proposed project.
15. **Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the Planning Code in the following manner:
  - A. **Use.** Per Planning Code Section 728, 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 4093 24th 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 4093 24th Street is necessary in order to achieve sufficient street and in-building mobile phone coverage and data capacity. Recent drive tests in the subject area conducted by the AT&T Mobility Radio Frequency Engineering Team provide that the Project Site is a preferable location, based on factors including quality of coverage and aesthetics.*

- B. The proposed project will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity. There are no features of the project that could be detrimental to the health, safety or convenience of those residing or working the area, in that:

- 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 AT&T Mobility's coverage and capacity within the Noe Valley neighborhood.*

## COMMERCE AND INDUSTRY ELEMENT

### Objectives and Policies

#### **OBJECTIVE 1:**

MANAGE ECONOMIC GROWTH AND CHANGE TO ENSURE ENHANCEMENT OF THE TOTAL CITY LIVING AND WORKING ENVIRONMENT.

##### **Policy 1.1:**

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

##### **Policy 1.2:**

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

*The Project will enhance the total city living and working environment by providing communication services for residents and workers within the City. Additionally, the Project would comply with Federal, State and Local performance standards.*

#### **OBJECTIVE 2:**

MAINTAIN AND ENHANCE A SOUND AND DIVERSE ECONOMIC BASE AND FISCAL STRUCTURE FOR THE CITY.

##### **Policy 2.1:**

Seek to retain existing commercial and industrial activity and to attract new such activity to the city.

##### **Policy 2.3:**

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

*The Site will be an integral part of a new wireless communications network that will enhance the City's diverse economic base.*

#### **OBJECTIVE 4:**

IMPROVE THE VIABILITY OF EXISTING INDUSTRY IN THE CITY AND THE ATTRACTIVENESS OF THE CITY AS A LOCATION FOR NEW INDUSTRY.

##### **Policy 4.1:**

Maintain and enhance a favorable business climate in the City.

**Policy 4.2:**

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

*The Project will benefit the City by enhancing the business climate through improved communication services for residents and workers.*

**VISITOR TRADE**

**OBJECTIVE 8:**

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

**Policy 8.3:**

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

*The Project will ensure that residents and visitors have adequate public service in the form of AT&T Mobility telecommunications.*

**COMMUNITY SAFETY ELEMENT**  
Objectives and Policies

**OBJECTIVE 3:**

ESTABLISH STRATEGIES TO ADDRESS THE IMMEDIATE EFFECTS OF A DISASTER.

**Policy 1.20**

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

**Policy 2.4**

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

**Policy 2.15**

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

**Policy 3.7:**

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

*The Project will enhance the ability of the City to protect both life and property from the effects of a fire or natural disaster by providing communication services.*

18. **Planning Code Section 101.1(b)** establishes eight priority-planning policies and requires review of permits for consistency with said policies. On balance, the Project complies with said policies in that:

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

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

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

*No residential uses will be displaced or altered in any way by the granting of this Authorization.*

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

*The Project will have no adverse effect on housing in the vicinity.*

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

*Due to the nature of the Project and minimal maintenance or repair, municipal transit service will not be significantly impeded and neighborhood parking will not be overburdened.*

- E. That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for resident employment and ownership in these sectors be enhanced.

*The Project will not cause any displacement of industrial and service sector activity.*

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

*Compliance with applicable structural safety and seismic safety requirements will be considered during the building permit application review process.*

- G. That landmarks and historic buildings be preserved.

*The facility will be screened from view by virtue of equipment placement on the rooftop. While the proposed FRP radomes and FRP box 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. **2016-014839CUA**, subject to the following conditions attached hereto as "EXHIBIT A" in general conformance with plans on file, dated January 4, 2018, 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 **March 8, 2018**.

Jonas P. Ionin  
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED:

## EXHIBIT A

### AUTHORIZATION

This authorization is for a Conditional Use to install a new AT&T Mobility Macro Wireless Telecommunications Facility consisting of the installation of twelve (12) new panel antennas; installation of twenty (20) remote radio units; and installation of ancillary equipment. Three (3) new rooftop FRP faux vents are to be located 6' from the east facing building edge and will be 5'-1" above the existing roof level; the faux vents will screen three (3) antennas. One (1) new rooftop FRP box will be located 12'-1" from the west facing building edge, and will be 5'-8" above existing roof level; the FRP box will screen nine (9) antennas. A second FRP box will screen ancillary equipment. All FRP screens, cabling, and ancillary equipment will be painted to match the existing building as part of the AT&T Mobility Telecommunications Network at 4093 24<sup>th</sup> Street, Block 6507, Lot 017, pursuant to Planning Code Sections 303(c) and 728 within the ND ( 24<sup>th</sup> Street – Noe Valley Neighborhood Commercial District), and the 40-X Height and Bulk Districts. ; in general conformance with plans dated January 4, 2018 and stamped "EXHIBIT B" included in the docket for Record No. 2016-014839CUA and subject to conditions of approval reviewed and approved by the Commission on March 8, 2018, 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 **March 8, 2018** 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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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](http://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.

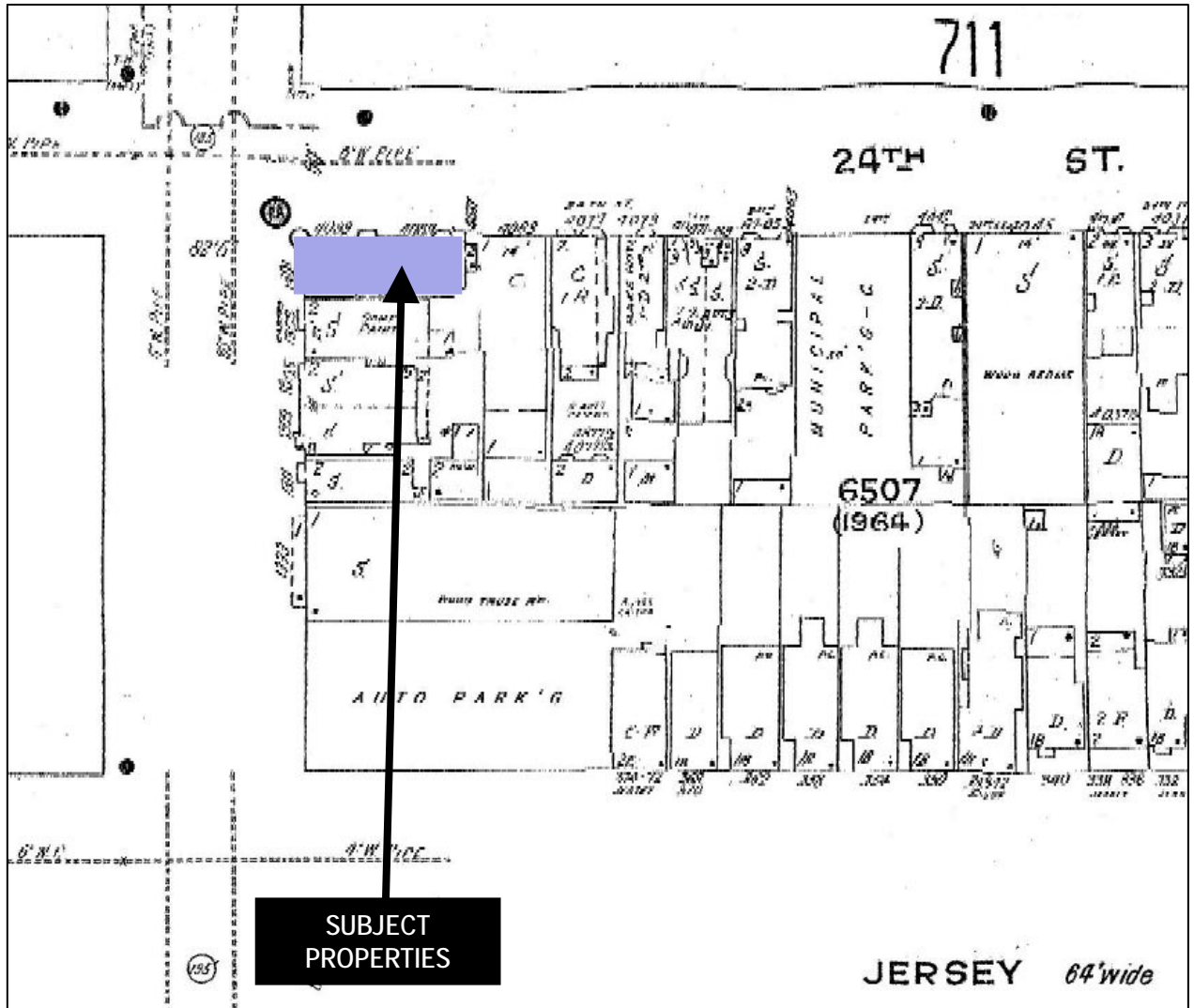
*For information about compliance, contact the Department of Technology, 415-581-4000, <http://sfgov3.org/index.aspx?page=1421>*



# Block Book Map



# Sanborn Map\*



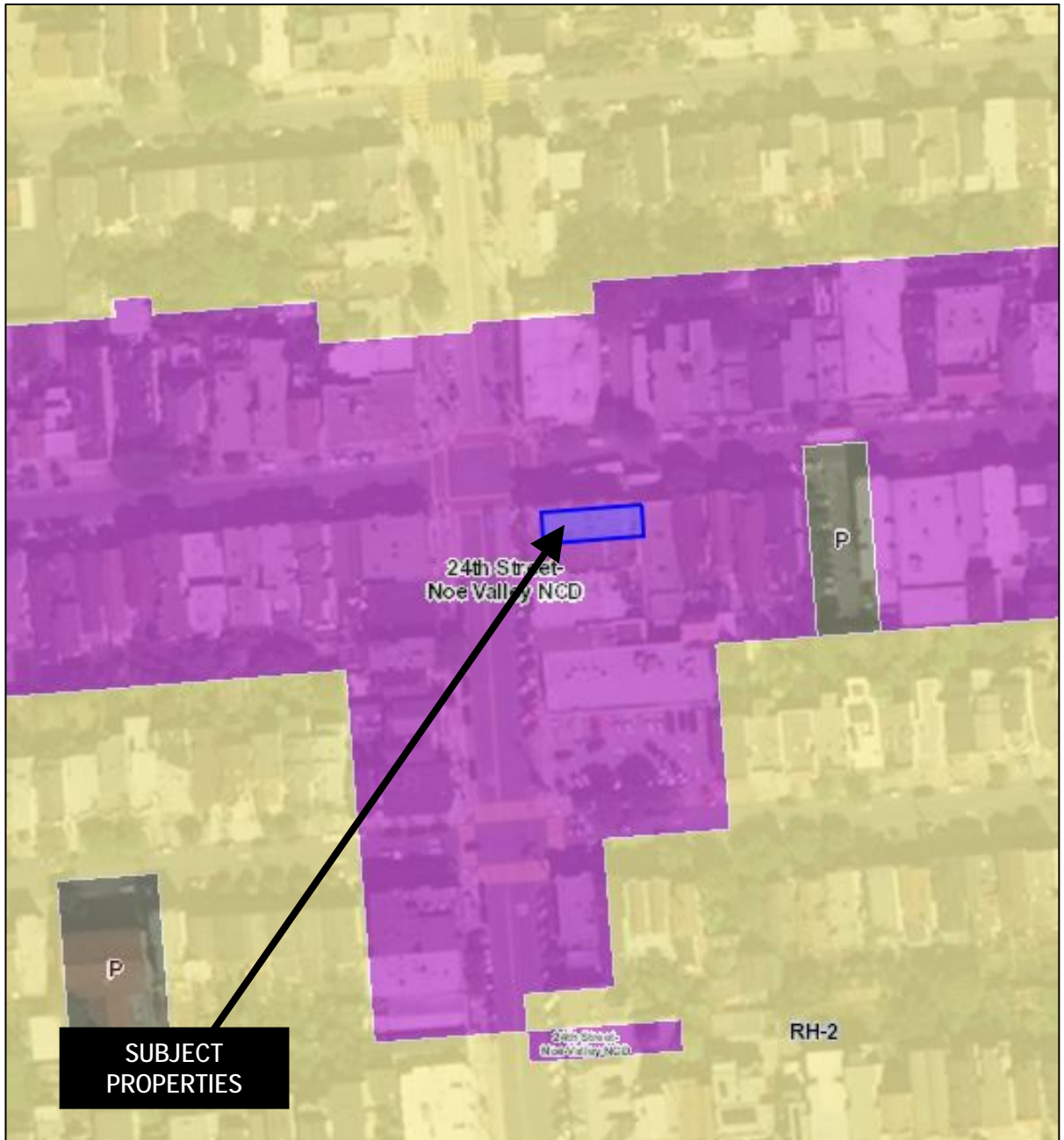
\*The Sanborn Maps in San Francisco have not been updated since 1998, and this map may not accurately reflect existing conditions.



Case Number 2016-014839CUA  
 AT&T Mobility  
 Macro WTS Facility  
 4093 24<sup>th</sup> Street



# Zoning Map







# SAN FRANCISCO PLANNING DEPARTMENT

## CEQA Categorical Exemption Determination

### PROPERTY INFORMATION/PROJECT DESCRIPTION

<b>Project Address</b>		<b>Block/Lot(s)</b>
4093 24TH ST		6507/017
<b>Case No.</b>		<b>Permit No.</b>
2016-014839PRJ		
<input checked="" type="checkbox"/> <b>Addition/ Alteration</b>	<input type="checkbox"/> <b>Demolition (requires HRE for Category B Building)</b>	<input type="checkbox"/> <b>New Construction</b>
<b>Project description for Planning Department approval.</b> 4093 24th Street AT&T New Site: Install (1) proposed AT&T custom equipment enclosure; (12) proposed AT&T hexport antennas; (24) proposed AT&T remote radio heads (RHH); (1) proposed hybrid rack for DUW's, 5216, and dc surge suppression; (2) proposed rack for Emerson DC power plant and 8 batteries; (1) proposed Ciena with Hoffman box; (1) proposed OSHA approved cage roof access ladder; (1) proposed OSHA approved access ladder within proposed equipment shelter, reconfigure existing Telco wiring on existing side of building within proposed equipment area, install proposed AT&T power and fiber cables in cable trays.		

### STEP 1: EXEMPTION CLASS

<b>*Note: If neither class applies, an <i>Environmental Evaluation Application</i> is required.*</b>	
<input type="checkbox"/>	<b>Class 1 - Existing Facilities.</b> Interior and exterior alterations; additions under 10,000 sq. ft.; change of use under 10,000 sq. ft.
<input checked="" type="checkbox"/>	<b>Class 3 - New Construction.</b> Up to three new single-family residences or six dwelling units in one building; commercial/office structures; utility extensions
<input type="checkbox"/>	<b>Class 32 - In-Fill Development.</b> New Construction of seven or more units or additions greater than 10,000 sq. ft. and meets the conditions described below: (a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations. (b) The proposed development occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses. (c) The project site has no value as habitat for endangered rare or threatened species. (d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality. (e) The site can be adequately served by all required utilities and public services.  <b>FOR ENVIRONMENTAL PLANNING USE ONLY</b>
<input type="checkbox"/>	<b>Class ____</b>

## STEP 2: CEQA IMPACTS

### TO BE COMPLETED BY PROJECT PLANNER

If any box is checked below, an *Environmental Evaluation Application* is required.

<input type="checkbox"/>	<b>Air Quality:</b> Would the project add new sensitive receptors (specifically, schools, day care facilities, hospitals, residential dwellings, and senior-care facilities within an Air Pollution Exposure Zone? Does the project have the potential to emit substantial pollutant concentrations (e.g., backup diesel generators, heavy industry, diesel trucks, etc.)? (refer to EP_ArcMap > CEQA Catex Determination Layers > Air Pollution Exposure Zone)
<input type="checkbox"/>	<b>Hazardous Materials:</b> If the project site is located on the Maher map or is suspected of containing hazardous materials (based on a previous use such as gas station, auto repair, dry cleaners, or heavy manufacturing, or a site with underground storage tanks): Would the project involve 50 cubic yards or more of soil disturbance - or a change of use from industrial to residential? If yes, this box must be checked and the project applicant must submit an Environmental Application with a Phase I Environmental Site Assessment. <i>Exceptions: do not check box if the applicant presents documentation of enrollment in the San Francisco Department of Public Health (DPH) Maher program, a DPH waiver from the Maher program, or other documentation from Environmental Planning staff that hazardous material effects would be less than significant (refer to EP_ArcMap &gt; Maher layer).</i>
<input type="checkbox"/>	<b>Transportation:</b> Does the project create six (6) or more net new parking spaces or residential units? Does the project have the potential to adversely affect transit, pedestrian and/or bicycle safety (hazards) or the adequacy of nearby transit, pedestrian and/or bicycle facilities?
<input type="checkbox"/>	<b>Archeological Resources:</b> Would the project result in soil disturbance/modification greater than two (2) feet below grade in an archeological sensitive area or eight (8) feet in a non -archeological sensitive area? (refer to EP_ArcMap > CEQA Catex Determination Layers > Archeological Sensitive Area)
<input type="checkbox"/>	<b>Subdivision/Lot Line Adjustment:</b> Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? (refer to EP_ArcMap > CEQA Catex Determination Layers > Topography)
<input type="checkbox"/>	<b>Slope = or &gt; 20%:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Topography) <b>If box is checked, a geotechnical report is required.</b>
<input type="checkbox"/>	<b>Seismic: Landslide Zone:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones) <b>If box is checked, a geotechnical report is required.</b>
<input type="checkbox"/>	<b>Seismic: Liquefaction Zone:</b> Does the project involve any of the following: (1) square footage expansion greater than 1,000 sq. ft. outside of the existing building footprint, (2) excavation of 50 cubic yards or more of soil, (3) new construction? (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones) <b>If box is checked, a geotechnical report will likely be required.</b>

If no boxes are checked above, GO TO STEP 3. If one or more boxes are checked above, an *Environmental Evaluation Application* is required, unless reviewed by an Environmental Planner.

Comments and Planner Signature (optional): Ashley Lindsay

**STEP 3: PROPERTY STATUS - HISTORIC RESOURCE**  
**TO BE COMPLETED BY PROJECT PLANNER**

<b>PROPERTY IS ONE OF THE FOLLOWING:</b> <i>(refer to Parcel Information Map)</i>	
<input checked="" type="checkbox"/>	<b>Category A:</b> Known Historical Resource. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	<b>Category B:</b> Potential Historical Resource (over 45 years of age). <b>GO TO STEP 4.</b>
<input type="checkbox"/>	<b>Category C:</b> Not a Historical Resource or Not Age Eligible (under 45 years of age). <b>GO TO STEP 6.</b>

**STEP 4: PROPOSED WORK CHECKLIST**  
**TO BE COMPLETED BY PROJECT PLANNER**

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. <b>Change of use and new construction.</b> Tenant improvements not included.
<input type="checkbox"/>	2. <b>Regular maintenance or repair</b> to correct or repair deterioration, decay, or damage to building.
<input type="checkbox"/>	3. <b>Window replacement</b> that meets the Department's <i>Window Replacement Standards</i> . Does not include storefront window alterations.
<input type="checkbox"/>	4. <b>Garage work.</b> A new opening that meets the <i>Guidelines for Adding Garages and Curb Cuts</i> , and/or replacement of a garage door in an existing opening that meets the Residential Design Guidelines.
<input type="checkbox"/>	5. <b>Deck, terrace construction, or fences</b> not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	6. <b>Mechanical equipment installation</b> that is not visible from any immediately adjacent public right-of-way.
<input type="checkbox"/>	7. <b>Dormer installation</b> that meets the requirements for exemption from public notification under <i>Zoning Administrator Bulletin No. 3: Dormer Windows</i> .
<input type="checkbox"/>	8. <b>Addition(s)</b> that are not visible from any immediately adjacent public right-of-way for 150 feet in each direction; does not extend vertically beyond the floor level of the top story of the structure or is only a single story in height; does not have a footprint that is more than 50% larger than that of the original building; and does not cause the removal of architectural significant roofing features.
<b>Note: Project Planner must check box below before proceeding.</b>	
<input type="checkbox"/>	Project is not listed. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project <b>does not conform</b> to the scopes of work. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project involves <b>four or more</b> work descriptions. <b>GO TO STEP 5.</b>
<input type="checkbox"/>	Project involves <b>less than four</b> work descriptions. <b>GO TO STEP 6.</b>

**STEP 5: CEQA IMPACTS - ADVANCED HISTORICAL REVIEW**  
**TO BE COMPLETED BY PROJECT PLANNER**

<b>Check all that apply to the project.</b>	
<input type="checkbox"/>	1. Project involves a <b>known historical resource (CEQA Category A)</b> as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
<input type="checkbox"/>	2. <b>Interior alterations to publicly accessible spaces.</b>
<input type="checkbox"/>	3. <b>Window replacement</b> of original/historic windows that are not "in-kind" but are consistent with existing historic character.
<input type="checkbox"/>	4. <b>Façade/storefront alterations</b> that do not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	5. <b>Raising the building</b> in a manner that does not remove, alter, or obscure character-defining features.
<input type="checkbox"/>	6. <b>Restoration</b> based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.

<input checked="" type="checkbox"/>	7. <b>Addition(s)</b> , including mechanical equipment that are minimally visible from a public right-of-way and meet the <i>Secretary of the Interior's Standards for Rehabilitation</i> .
<input type="checkbox"/>	8. <b>Other work consistent</b> with the <i>Secretary of the Interior Standards for the Treatment of Historic Properties</i> (specify or add comments):
<input type="checkbox"/>	9. <b>Other work</b> that would not materially impair a historic district (specify or add comments):  (Requires approval by Senior Preservation Planner/Preservation Coordinator)
<input type="checkbox"/>	10. <b>Reclassification of property status.</b> (Requires approval by Senior Preservation Planner/Preservation <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Reclassify to Category A  a. Per HRER dated  b. Other (specify): </div> <div> <input type="checkbox"/> Reclassify to Category C  (attach HRER) </div> </div>
<b>Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST check one box below.</b>	
<input type="checkbox"/>	<b>Further environmental review required.</b> Based on the information provided, the project requires an <i>Environmental Evaluation Application</i> to be submitted. <b>GO TO STEP 6.</b>
<input type="checkbox"/>	<b>Project can proceed with categorical exemption review.</b> The project has been reviewed by the Preservation Planner and can proceed with categorical exemption review. <b>GO TO STEP 6.</b>
<b>Comments (optional):</b>	
<b>Preservation Planner Signature:</b> Marcelle Boudreaux	

## STEP 6: CATEGORICAL EXEMPTION DETERMINATION

### TO BE COMPLETED BY PROJECT PLANNER

<input type="checkbox"/>	<b>Further environmental review required.</b> Proposed project does not meet scopes of work in either (check all that apply): <input type="checkbox"/> Step 2 - CEQA Impacts <input type="checkbox"/> Step 5 - Advanced Historical Review <b>STOP! Must file an <i>Environmental Evaluation Application</i>.</b>	
<input type="checkbox"/>	<b>No further environmental review is required. The project is categorically exempt under CEQA. There are no unusual circumstances that would result in a reasonable possibility of a significant effect.</b>	
	<b>Project Approval Action:</b> Building Permit  If Discretionary Review before the Planning Commission is requested, the Discretionary Review hearing is the Approval Action for the project.	<b>Signature:</b> Ashley Lindsay 02/26/2018
	Once signed or stamped and dated, this document constitutes a categorical exemption pursuant to CEQA Guidelines and Chapter 31 of the Administrative Code. In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the first approval action. Please note that other approval actions may be required for the project. Please contact the assigned planner for these approvals.	

## STEP 7: MODIFICATION OF A CEQA EXEMPT PROJECT

### TO BE COMPLETED BY PROJECT PLANNER

In accordance with Chapter 31 of the San Francisco Administrative Code, when a California Environmental Quality Act (CEQA) exempt project changes after the Approval Action and requires a subsequent approval, the Environmental Review Officer (or his or her designee) must determine whether the proposed change constitutes a substantial modification of that project. This checklist shall be used to determine whether the proposed changes to the approved project would constitute a "substantial modification" and, therefore, be

### PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address (If different than front page)		Block/Lot(s) (If different than front page)
4093 24TH ST		6507/017
Case No.	Previous Building Permit No.	New Building Permit No.
2016-014839PRJ		
Plans Dated	Previous Approval Action	New Approval Action
	Building Permit	
Modified Project Description:		

### DETERMINATION IF PROJECT CONSTITUTES SUBSTANTIAL MODIFICATION

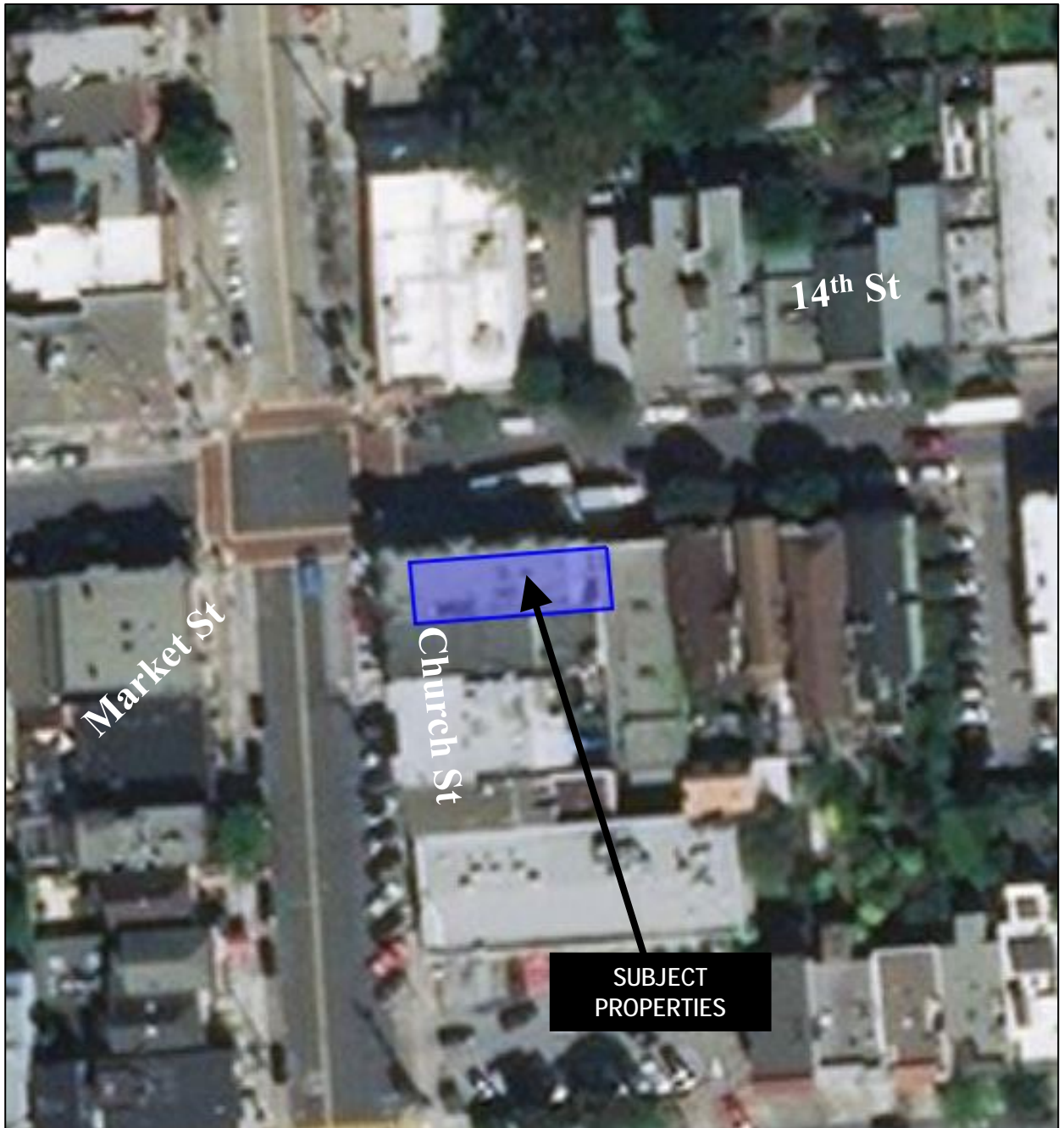
Compared to the approved project, would the modified project:	
<input type="checkbox"/>	Result in expansion of the building envelope, as defined in the Planning Code;
<input type="checkbox"/>	Result in the change of use that would require public notice under Planning Code Sections 311 or 312;
<input type="checkbox"/>	Result in demolition as defined under Planning Code Section 317 or 19005(f)?
<input type="checkbox"/>	Is any information being presented that was not known and could not have been known at the time of the original determination, that shows the originally approved project may no longer qualify for the exemption?
If at least one of the above boxes is checked, further environmental review is required.	

### DETERMINATION OF NO SUBSTANTIAL MODIFICATION

<input type="checkbox"/>	The proposed modification would not result in any of the above changes.
If this box is checked, the proposed modifications are categorically exempt under CEQA, in accordance with prior project approval and no additional environmental review is required. This determination shall be posted on the Planning Department website and office and mailed to the applicant, City approving entities, and anyone requesting written notice.	
Planner Name:	Signature or Stamp:



# Aerial Photo





**EXHIBIT**  
**B**

**DIGALERT**  
800-227-2600  
Call 2 Full Working Days In Advance

PROJECT DESCRIPTION		PROJECT INFORMATION		PROJECT TEAM		SHEET INDEX		REV.	
<div>INSTALLATION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING:</div> <div><div><div>• INSTALL (1) PROPOSED AT&amp;T (12'-1"x 9'-2"x7'-2") CUSTOM FRP ENCLOSURE PAINTED TO MATCH EXISTING BUILDING</div><div>• INSTALL (1) PROPOSED AT&amp;T (10'-0"x 3'-10"x3'-0") CUSTOM FRP EQUIPMENT ENCLOSURE PAINTED TO MATCH EXISTING BUILDING</div><div>• INSTALL (3) PROPOSED 24"Ø X 5'-9" TALL FRP FAUX VENT ANTENNA ENCLOSURE PAINTED TO MATCH EXISTING BUILDING</div><div>• INSTALL (12) PROPOSED AT&amp;T 4'-0" HEXPORT ANTENNAS</div><div>• INSTALL (4) DC-6 SURGE SUPPRESSORS</div><div>• INSTALL (12) PROPOSED AT&amp;T RRUS-32, REMOTE RADIO HEADS (RRH)</div><div>• INSTALL (8) PROPOSED AT&amp;T RRUS-11, REMOTE RADIO HEADS (RRH)</div><div>• INSTALL (1) PROPOSED 15'-0"x5'-6" EQUIPMENT ROOM ON GROUND LEVEL, ADJACENT TO EXISTING BUILDING</div><div>• INSTALL (2) PROPOSED PURELL CABINETS STACKED WITHIN EQUIPMENT LEASE AREA</div><div>• INSTALL (1) PROPOSED DC POWER PLANT CABINET WITHIN EQUIPMENT LEASE AREA</div><div>• INSTALL (1) PROPOSED AT&amp;T GPS ANTENNA</div><div>• INSTALL (1) PROPOSED AT&amp;T METER</div><div>• INSTALL (1) PROPOSED OSHA APPROVED CAGED ROOF ACCESS LADDER PAINTED TO MATCH EXISTING</div><div>• INSTALL PROPOSED AT&amp;T POWER AND FIBER CABLES IN CABLE TRAYS PAINTED TO MATCH EXISTING BUILDING</div><div>• INSTALL PROPOSED (2) AC CONDENSER UNITS AT ROOFTOP OF (E) BUILDING</div><div>• APPLY REQUIRED STRIPING TO ROOF AS INDICATED IN RF REPORT AND DPH APPROVAL</div><div>• ALL FRP SCREENS, CABLING AND ANCILLARY EQUIPMENT WILL BE PAINTED TO MATCH EXISTING BUILDING</div></div></div>		<div>Property Information:</div> <div>Site Name: COTTON BASICS</div> <div>Site Number: CNU5570</div> <div>Site Address:</div> <div>4093 24TH STREET,</div> <div>SAN FRANCISCO, CA 94114</div> <div>A.P.N. Number: 6507-017</div> <div>Current Use: MULTIUSE</div> <div>Proposed Use: MULTIUSE, COMMUNICATIONS FACILITY</div> <div>Zonning: NCD - 24th Street - Noe Valley</div> <div>Neighborhood Commercial</div> <div>Jurisdiction: CITY OF SAN FRANCISCO</div> <div>LATITUDE (NAD 83): 37.6242530</div> <div>37° 37' 27.31" N</div> <div>LONGITUDE (NAD 83): -122.0490780</div> <div>-122° 02' 56.68" W</div> <div>GROUND ELEVATION: 19.5' AMSL (NAVD88)</div> <div>POWER AGENCY:</div> <div>PG&amp;E</div> <div>PH: (408) 261-5373</div> <div>TELEPHONE AGENCY:</div> <div>AT&amp;T</div> <div>RFDS VERSION: 1.00</div> <div>DATE UPDATED: 04/19/17</div>		<div>APPLICANT / LESSEE:</div> <div>AT&amp;T MOBILITY</div> <div>5001 EXECUTIVE PARKWAY, 4W550H</div> <div>SAN RAMON, CA 94583</div> <div>CONTACT: TY EDDY</div> <div>EMAIL: TE1501@ATT.COM</div> <div>CELL: (925) 337-0760</div> <div>CONSTRUCTION MANAGER:</div> <div>ERICSSON, INC.</div> <div>CONTACT: TIM LENCIONI</div> <div>EMAIL: tim.lencioni@ericsson.com</div> <div>PH: (916) 437-9119</div> <div>RF ENGINEER:</div> <div>AT&amp;T MOBILITY</div> <div>CONTACT: GIL SHAHZADA</div> <div>EMAIL: GS262U@ATT.COM</div> <div>PH: (925) 353-6078</div> <div>ARCHITECT / ENGINEER:</div> <div>J5 INFRASTRUCTURE PARTNERS</div> <div>CONTACT: DANIEL G. DE WITTE</div> <div>EMAIL: DDEWITTE@J5IP.COM</div> <div>PH: (949) 247-7767X109</div> <div>PROJECT MANAGER:</div> <div>J5 INFRASTRUCTURE PARTNERS</div> <div>CONTACT: MISA KO HILL</div> <div>EMAIL: MHILL@J5IP.COM</div> <div>CELL: (415) 533-2540</div> <div>SITE ACQUISITION:</div> <div>J5 INFRASTRUCTURE PARTNERS</div> <div>CONTACT: MICHAEL GUIGLOTTO</div> <div>EMAIL: MGUIGLOTTO@J5IP.COM</div> <div>PH:(415) 225-6667</div>		<div>T-1</div> <div>TITLE SHEET</div> <div>8</div> <div>T-2</div> <div>DPH LETTER</div> <div>8</div> <div>T-3</div> <div>PHOTO SIMULATIONS</div> <div>8</div> <div>GN-1</div> <div>GENERAL NOTES</div> <div>8</div> <div>GN-2</div> <div>SITE SIGNAGE</div> <div>8</div> <div>GN-2.1</div> <div>EME REPORT</div> <div>8</div> <div>GN-3</div> <div>MATERIAL SAFETY DATA SHEET &amp; LEAD ACID BATTERY-1</div> <div>8</div> <div>GN-4</div> <div>MATERIAL SAFETY DATA SHEET &amp; LEAD ACID BATTERY-2</div> <div>8</div> <div>C-1</div> <div>TOPOGRAPHIC SURVEY</div> <div>2</div> <div>A-1</div> <div>OVERALL SITE PLAN</div> <div>8</div> <div>A-2</div> <div>EXISTING AND PROPOSED ENLARGED SITE PLAN</div> <div>9</div> <div>A-3</div> <div>EXISTING AND PROPOSED EQUIPMENT PLAN</div> <div>9</div> <div>A-4</div> <div>EXISTING AND PROPOSED ANTENNA PLAN</div> <div>9</div> <div>A-5</div> <div>EXISTING AND PROPOSED NORTH ELEVATION</div> <div>8</div> <div>A-6</div> <div>EXISTING AND PROPOSED SOUTH ELEVATION</div> <div>8</div> <div>A-7</div> <div>EXISTING AND PROPOSED WEST ELEVATION</div> <div>8</div> <div>A-8</div> <div>EXISTING AND PROPOSED EAST ELEVATION</div> <div>8</div> <div>D-1</div> <div>DETAILS</div> <div>8</div> <div>D-2</div> <div>DETAILS</div> <div>8</div>			
CODE COMPLIANCE		VICINITY MAP		LOCAL MAP		DIRECTIONS FROM AT&T			
<div>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</div> <div><div>1) 2016 CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 10, PART 1, TITLE 24 CODE OF REGULATIONS</div><div>2) 2016 CALIFORNIA BUILDING CODE (CBC)</div><div>3) 2016 CALIFORNIA RESIDENTIAL CODE (CRC) WITH APPENDIX H, PATIO COVERS, BASED ON THE 2015 IRC (PART 2.5)</div><div>4) 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (CALGREEN) (PART 11) (AFFECTED ENERGY PROVISIONS ONLY)</div><div>5) 2016 CALIFORNIA FIRE CODE (CFC), BASED ON THE 2015 IFC, WITH CALIFORNIA AMENDMENTS (PART 9)</div><div>6) 2016 CALIFORNIA MECHANICAL CODE (CMC), BASED ON THE 2015 UMC (PART 4)</div><div>7) 2016 CALIFORNIA PLUMBING CODE (CPC), BASED ON THE 2015 UPC (PART 5)</div><div>8) 2016 CALIFORNIA ELECTRICAL CODE (CEC) WITH CALIFORNIA AMENDMENTS, BASED ON THE 2014 NEC (PART 3)</div><div>9) 2016 CALIFORNIA ENERGY CODE (CEC)- PART 6</div><div>10) ANSI / EIA-TIA-222-G</div><div>11) 2016 NFPA 101, LIFE SAFETY CODE</div><div>12) 2016 NFPA 72, NATIONAL FIRE ALARM CODE</div><div>13) 2016 NFPA 13, FIRE SPRINKLER CODE</div></div>		<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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San Francisco City and County  
Department of Public Health  
Environmental Health Section

Edwin M. Lee, Mayor  
Barbara Garcia, Director of Health  
Stephanie K.J. Cushing, MSPH, CHMM, REHS  
Director of Environmental Health

Review of Cellular Antenna Site Proposals

Project Sponsor : AT&T Wireless Planner: Elizabeth Watty  
RF Engineer Consultant: Hammett & Edison, Inc Phone Number: (707) 996-5200  
Project Address/Location: 4093 24TH St  
Site ID: 1829 SiteNo.: CNU5570 Report Dated: 3/14/2017

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.

- ☒ 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
- ☒ 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
- ☒ 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
- ☒ 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
- ☒ 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
- ☒ 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: 11840 Watts
- ☒ 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: 23 %  
Distance to this nearby building or structure: 30 feet
- ☒ 8. The estimated maximum cumulative radio frequency fields for the proposed site at ground level. (WTS-FSG, Section 10.5)  
Maximum RF Exposure: 0.026 mW/cm<sup>2</sup> Maximum RF Exposure Percent: 4.3 %

- ☒ 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: 69  
☒ Occupational Exclusion Area Occupational Exclusion In Feet: 29

- ☒ 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

- ☒ 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

☒ 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 0 antennas existing operated by AT&T Wireless installed on the roof top of the building at 4093 24TH St. Existing RF levels at ground level were around 1.9% of the FCC public exposure limit. No other antennas were observed within 100 feet of this site. AT&T Wireless proposes to install 12 new antennas. The antennas are mounted at a height of 43 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.026 mW/sq cm., which is 4.3% of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 69 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. Yellow striping and red striping to be provided on rooftop surfaces that exceed the FCC public exposure limits and FCC occupational exposure limits, respectively. Workers should not have access to within 29 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: 3/15/2017

Signed: [Signature]

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

PREPARED FOR

at&t Mobility

5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:

JS INFRASTRUCTURE  
AZ - CA - CO - ID - NM - NV - TX - UT

2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&T Site ID:

CNU5570

AT&T SITE NO: CNU5570

PAGE NO:

DRAWN BY: BH

CHECKED BY: SMR

REV	DATE	DESCRIPTION
9	01/04/18	PLANNING COMMENTS
8	12/04/17	CIVIL REDLINES
7	10/24/17	REVISED EQUIPMENT
6	08/30/17	PLANNING COMMENTS
5	06/01/17	CLIENT COMMENTS
4	04/06/17	PLANNING COMMENTS
3	12/21/16	CLIENT COMMENTS
2	10/04/16	CLIENT COMMENTS
1	09/30/16	CLIENT COMMENTS
0	08/23/16	100% ZDs
A	08/11/16	90% ZDs

Licensors:

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Issued For:

CNU5570  
COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

DPH LETTER

Sheet Number:

T-2





EXISTING



View 1 of 3



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
Rev 3 - 3/1/17



EXISTING



View 2 of 3



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
Rev 3 - 3/1/17



EXISTING



View 3 of 3



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
Rev 3 - 3/1/17



VIEWS



View Chart



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
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PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

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2030 MAIN STREET, SUITE 200  
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**CNU5570**  
COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

**PHOTO-SIMULATIONS**

Sheet Number:

**T-3**



- GENERAL CONSTRUCTION NOTES:
1.

PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

2.

THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

3.

CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

4.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

5.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

6.

REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.

7.

THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.

8.

DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

9.

ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.

10.

CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.

11.

ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

12.

ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.

13.

ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

14.

INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS

A.B.  
ABV.  
ACCA  
ADD'L  
A.F.F.  
A.F.G.  
ALUM.  
ALT.  
ANT.  
APPRX.  
ARCH.  
AWG.  
BLDG.  
BLK.  
BLKG.  
BM.  
B.N.  
BTCW.  
B.O.F.  
B/U  
CAB.  
CANT.  
C.I.P.  
CLG.  
CLR.  
COL.  
CONC.  
CONN.  
CONST.  
CONT.  
d  
DBL.  
DEPT.  
D.F.  
DIA.  
DIAG.  
DIM.  
DWG.  
DWL.  
EA.  
EL.  
ELEC.  
ELEV.  
EMT.  
E.N.  
ENG.  
EQ.  
EXP.  
EXST. (E)  
EXT.  
FAB.  
F.F.  
F.G.  
FIN.  
FLR.

ANCHOR BOLT  
ABOVE  
ANTENNA CABLE COVER ASSEMBLY  
ADDITIONAL  
ABOVE FINISHED FLOOR  
ABOVE FINISHED GRADE  
ALUMINUM  
ALTERNATE  
ANTENNA  
APPROXIMATE(LY)  
ARCHITECT(URAL)  
AMERICAN WIRE GAUGE  
BUILDING  
BLOCK  
BLOCKING  
BEAM  
BOUNDARY NAILING  
BARE TINNED COPPER WIRE  
BOTTOM OF FOOTING  
BACK-UP CABINET  
CABINET  
CANTILEVER(ED)  
CAST IN PLACE  
CEILING  
CLEAR  
COLUMN  
CONCRETE  
CONNECTION(OR)  
CONSTRUCTION  
CONTINUOUS  
PENNY (NAILS)  
DOUBLE  
DEPARTMENT  
DOUGLAS FIR  
DIAMETER  
DIAGONAL  
DIMENSION  
DRAWING(S)  
DOWEL(S)  
EACH  
ELEVATION  
ELECTRICAL  
ELEVATOR  
ELECTRICAL METALLIC TUBING  
EDGE NAIL  
ENGINEER  
EQUAL  
EXPANSION  
EXISTING  
EXTERIOR  
FABRICATION(OR)  
FINISH FLOOR  
FINISH GRADE  
FINISH(ED)  
FLOOR

FDN.  
F.O.C.  
F.O.M.  
F.O.S.  
F.O.W.  
F.S.  
FT. ( ' )  
FTG.  
G.  
GA.  
GI.  
G.F.I.  
INTERRUPTER  
GLB. (GLU-LAM)  
GPS  
GRND.  
HDR.  
HGR.  
HT.  
ICGB.  
IN. ( \* )  
INT.  
LB. (#)  
L.B.  
L.F.  
L.  
MAS.  
MAX.  
M.B.  
MECH.  
MFR.  
MIN.  
MISC.  
MTL.  
(N)  
NO. (#)  
N.T.S.  
O.C.  
OPNG.  
P/C  
PCS  
SERVICES  
PLY.  
PPC  
PRC  
P.S.F.  
P.S.I.  
P.T.  
PWR.  
QTY.  
RAD. (R)  
REF.  
REINF.  
REQ'D/  
RGS.

FOUNDATION  
FACE OF CONCRETE  
FACE OF MASONRY  
FACE OF STUD  
FACE OF WALL  
FINISH SURFACE  
FOOT (FEET)  
FOOTING  
GROWTH (CABINET)  
GAUGE  
GALVANIZE(D)  
GROUND FAULT CIRCUIT  
  
GLUE LAMINATED BEAM  
GLOBAL POSITIONING SYSTEM  
GROUND  
HEADER  
HANGER  
HEIGHT  
ISOLATED COPPER GROUND BUS  
INCH(ES)  
INTERIOR  
POUND(S)  
LAG BOLTS  
LINEAR FEET (FOOT)  
LONG(ITUDINAL)  
MASONRY  
MAXIMUM  
MACHINE BOLT  
MECHANICAL  
MANUFACTURER  
MINIMUM  
MISCELLANEOUS  
METAL  
NEW  
NUMBER  
NOT TO SCALE  
ON CENTER  
OPENING  
PRECAST CONCRETE  
PERSONAL COMMUNICATION  
  
PLYWOOD  
POWER PROTECTION CABINET  
PRIMARY RADIO CABINET  
POUNDS PER SQUARE FOOT  
POUNDS PER SQUARE INCH  
PRESSURE TREATED  
POWER (CABINET)  
QUANTITY  
RADIUS  
REFERENCE  
REINFORCEMENT(ING)  
REQUIRED  
RIGID GALVANIZED STEEL

SCH.  
SHT.  
SIM.  
SPEC.  
SQ.  
S.S.  
STD.  
STL.  
STRUC.  
TEMP.  
THK.  
T.N.  
T.O.A.  
T.O.C.  
T.O.F.  
T.O.P.  
T.O.S.  
T.O.W.  
TYP.  
U.G.  
U.L.  
U.N.O.  
V.I.F.  
W  
w/  
WD.  
W.P.  
WT.  
¢  
P

SCHEDULE  
SHEET  
SIMILAR  
SPECIFICATIONS  
SQUARE  
STAINLESS STEEL  
STANDARD  
STEEL  
STRUCTURAL  
TEMPORARY  
THICK(NESS)  
TOE NAIL  
TOP OF ANTENNA  
TOP OF CURB  
TOP OF FOUNDATION  
TOP OF PLATE (PARAPET)  
TOP OF STEEL  
TOP OF WALL  
TYPICAL  
UNDER GROUND  
UNDERWRITERS LABORATORY  
UNLESS NOTED OTHERWISE  
VERIFY IN FIELD  
WIDE (WIDTH)  
WITH  
WOOD  
WEATHERPROOF  
WEIGHT  
CENTERLINE  
PLATE, PROPERTY LINE

- APPLICABLE CODES, REGULATIONS AND STANDARDS:
1.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
2.

THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
3.

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- 3.1.

AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 3.2.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- 3.3.

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- 3.4.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
- 3.5.

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- 3.6.

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
- 3.7.

EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
- 3.8.

TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
- 3.9.

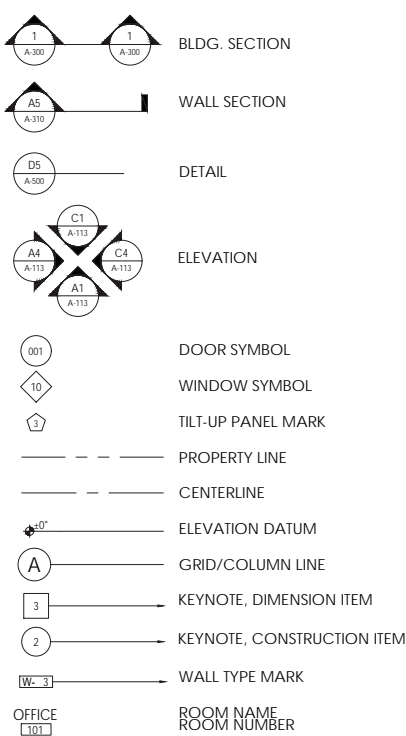
TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- 3.10.

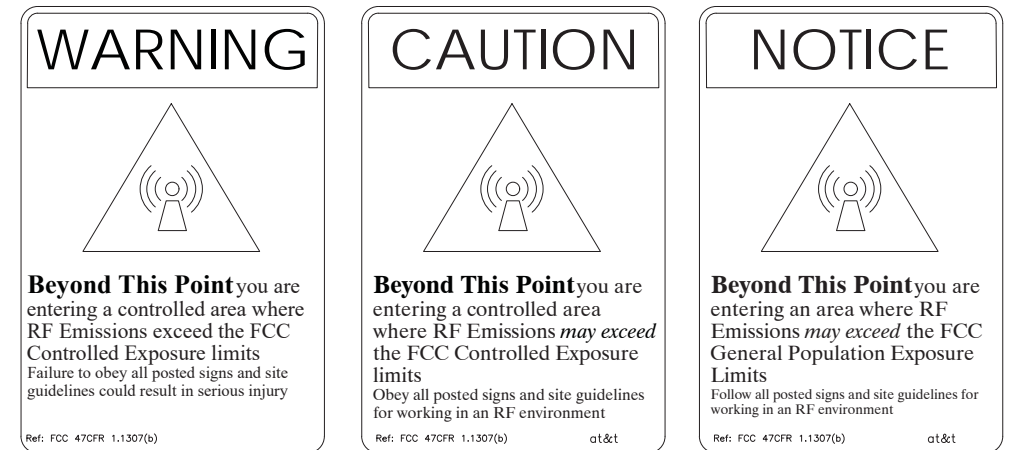
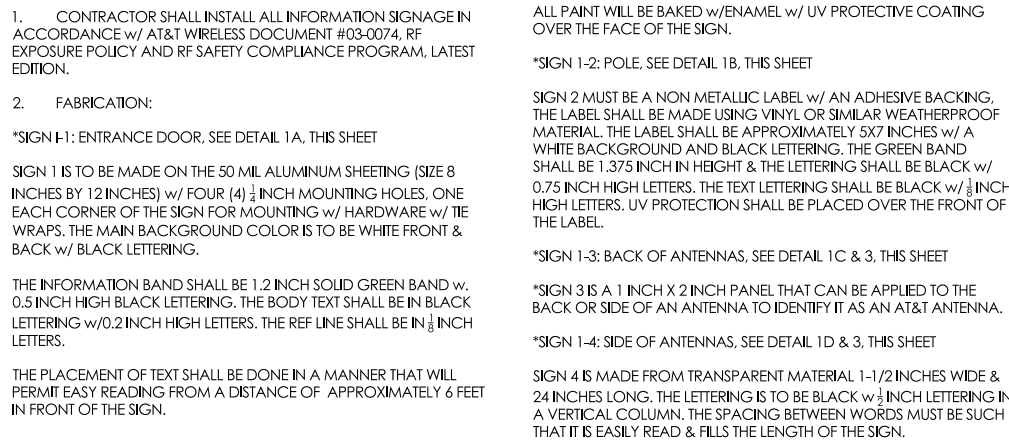
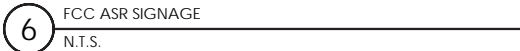
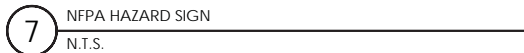
TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- 3.11.

ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- 3.12.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

SYMBOLS LEGEND:





- Sheet Number:
- GN-2**



AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate the base station (Site No. CNU5570) proposed to be located at 4093 24th 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 <sup>2</sup>	1.00 mW/cm <sup>2</sup>
WiFi (and unlicensed uses)	2-6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30-300	1.00	0.20

Checklist

Reference has been made to information provided by AT&T, including zoning drawings by J5 Infrastructure Partners, dated January 30, 2017. It should be noted that the calculation results in this Statement include several "worst-case" assumptions and therefore are expected to overstate actual power density levels from the proposed operations.

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

AT&T proposes to install twelve antennas. This is consistent with the scope of work described in the drawings for transmitting elements.

AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California

Conclusion

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by AT&T Mobility at 4093 24th Street in San Francisco, California, can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Locking the roof access ladder is recommended to establish compliance with public exposure limits; training authorized personnel, marking roof areas, and posting explanatory signs are recommended to establish compliance with occupational exposure limits.



March 14, 2017

AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California

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

AT&T proposes to install twelve CCI Model HPA-45R-BUU-H4-K directional panel antennas in groups of three above the roof of the three-story mixed-use building located at 4093 24th Street. The antennas would employ up to 8° downtilt and would be mounted at an effective height of about 43 feet above ground, 5 feet above the roof. Three groups would be mounted within a view screen enclosure above the roof near the west end of the building, oriented toward 10°T, 180°T, and 275°T, and one group would be mounted within individual cylindrical shrouds, configured to resemble vents, above the east end of the building, oriented toward 90°T. There are reported no other wireless telecommunications base stations at the site or nearby.

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.

There are no antennas on the building roof presently, so exposure levels near the proposed antenna locations are expected to be well below the FCC public limit. The maximum existing RF level for a person at ground near the site was measured to be 0.0038 mW/cm<sup>2</sup>, which is 1.9% of the most restrictive public limit.

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

The maximum effective radiated power proposed by AT&T in any direction would be 11,840 watts, representing simultaneous operation at 3,000 watts for WCS, 3,530 watts for AWS, 3,390 watts for PCS, 1,000 watts for cellular, and 920 watts for 700.

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

The maximum calculated level at the top-floor elevation of any nearby building is 23% of the public exposure limit; this occurs at the two-story mixed-use building located at 1305 Castro Street, about 30 feet away.

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

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.026 mW/cm<sup>2</sup>, which is 4.3% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be less than 6.2% of the applicable public limit.

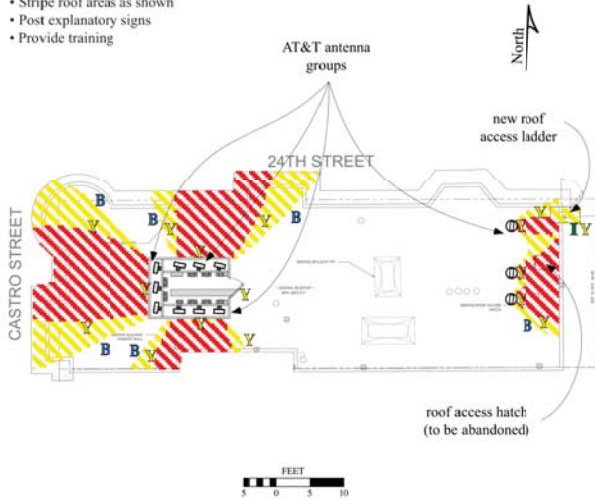
\* February 4, 2015, using calibrated Wandel & Goltermann Type EMR-300 Radiation Meter with Type 18 Isotropic Electric Field Probe (Serial No. F-0034).

AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California

Calculated RF Exposure Levels on Roof

Recommended Mitigation Measures

- Lock roof access ladder (roof hatch to be sealed)
- Stripe roof areas as shown
- Post explanatory signs
- Provide training



Notes: See text.  
Base drawing from J5 Infrastructure Partners, dated January 30, 2017.  
Calculations performed according to OET Bulletin 65, August 1997.

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

AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California

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 69 and 29 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this includes areas of the roof of the building but does not reach any publicly accessible areas.

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

It is reported that the existing roof access hatch is to be sealed shut and that an exterior access ladder, fitted with a locking cover, is to be installed at the east face of the building. It is recommended that the ladder cover be kept locked, so that the AT&T antennas are not accessible to unauthorized persons. 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 AT&T and of the property owner. No access within 29 feet directly in front of the AT&T antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that "Worker Notification Areas" be marked with yellow paint stripes and that "Prohibited Access Areas" be marked with red paint stripes on the roof of the building, as shown in Figure 1, to identify areas within which exposure levels are calculated to exceed the FCC public and occupational limits, respectively. It is recommended that explanatory signs be posted at the roof access ladder, at edges of the striped areas, on the enclosure and shrouds in front of the antennas, and on the door to the enclosure, readily visible from any angle of approach to persons who might need to work in those areas.

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; the San Francisco Department of Public Health recommends that all signs be written in English, Spanish, and Chinese.

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
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AT&T Site ID:

CNU5570

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PAGE NO:

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CHECKED BY: SMR

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A	08/11/16	90% ZDs

Licensors:

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

Issued For:

CNU5570  
COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

EME REPORT

Sheet Number:

GN-2.1



I. PRODUCT IDENTIFICATION		
MANUFACTURER GNB Industrial Power A division of Exide Technologies 3950 Sussex Avenue Aurora, IL 60504-7932	CHEMICAL/TRADE NAME (as used on label)  MARATHON V-2 and SPRINTER V-2 Valve Regulated Lead Acid Battery	
FOR FURTHER INFORMATION Primary Contact: Exide MSDS Support (770) 421-3485 Secondary Contact: Fred Ganster (610) 921-4052	CHEMICAL FAMILY/ CLASSIFICATION  Electric Storage Battery	
	FOR EMERGENCY CHEMTREC (800) 424-9300 (703) 527-3887 - Collect 24-hour Emergency Response Contact Ask for Environmental Coordinator	
II. HAZARD IDENTIFICATION		
Signal Word: Danger		
Category:	GHS Codes	Description
Health:	H302 H314 H332 H351 H360 H373	Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled. Suspected of causing cancer by inhalation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Extremely flammable gas (hydrogen) Very toxic to aquatic life with long lasting effects.
	H220 H410	
	P260 P308 + 313 P301/330/331	Do not breathe dust/fume/gas/mist/vapors/spray. If exposed/concern, seek medical attention/advice. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303/361/353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/physician.
Handling:	P210 P260 P264 P280	Keep away from heat/sparks/open flames/hot surfaces. No smoking Do not breathe dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
	P403 P405 P391	Store in well-ventilated area Store locked up Collect spillage
	P273 P501	Avoid release to the environment Dispose of contents/container in accordance with local/regional/national/international regulation.
<b>WARNING: Batteries subjected to abusive charging at excessively high currents for prolonged periods of time without vent caps in place</b>		

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may create a surrounding atmosphere of the offensive strong inorganic acid mist containing sulfuric acid.

Reactivity: Organic materials, chlorates, carbides, fulminates, water, powdered metals. Reacts violently with water with evolution of heat. Corrosive to metals. Strong oxidizers, hydrogen peroxide, acids.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% by Wt.
Inorganic compounds of:		
Lead	7439-92-1	71-76
Antimony Oxide (Sb2O3)	1309-64-4	<0.6
Calcinated Clay	N/A	<1.2
Tin	7440-31-5	0.4-0.6
Copper	7440-50-8	<0.1
Electrolyte (sulfuric acid)	7664-93-9	16-18
Case Material:		
Polypropylene	9003-07-0	6-7
Plate separator material: Glass	N/A	2-3

Note:

Inorganic lead and electrolyte (water and sulfuric acid solution) are the primary components of every battery manufactured by Exide Technologies or its subsidiaries. Other ingredients may be present dependent upon battery type. Polypropylene is the principal case material of automotive and commercial batteries. Electrolyte in this product is non-spill and completely absorbed within a solid matrix.

IV. FIRST AID MEASURES

Take proper precautions to ensure you own health and safety before attempting to rescue a victim and provide first aid.

Inhalation: Electrolyte: Remove to fresh air immediately. If breathing is difficult, give oxygen.  
Lead compounds: Remove from exposure, gargle, wash nose and lips; consult physician.

Skin Contact: Electrolyte: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes, and do not wear again until cleaned. If acid is splashed on shoes, remove and discard if they contain leather.  
Lead compounds: Wash immediately with soap and water. Lead compounds are not readily absorbed through the skin.

Eye Contact: Electrolyte and Lead compounds: Flush immediately with large amounts of water for at least 15 minutes; consult physician immediately.

Ingestion: Electrolyte: Give large quantities of water; do not induce vomiting; consult physician.  
Lead compounds: Consult physician immediately.

V. FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Flammable Limits: LEL = 4.1% (hydrogen gas in air) ; UEL = 74.2%

Extinguishing media: CO2; foam; dry chemical

Fire Fighting Procedures:

Use positive pressure, self-contained breathing apparatus. Beware of acid splatter during water application and wear acid-resistant clothing, gloves, face and eye protection. If batteries are on charge, shut off power to the charging equipment, but, note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

Hazardous Combustion Products:

In operation, or when on charge, batteries generate and release flammable hydrogen and oxygen gases (hydrogen is highly flammable and oxygen supports combustion). They must always be assumed to contain this gas which, if ignited by burning cigarette, naked flame or spark, may cause battery explosion with dispersion of casing fragments and corrosive liquid electrolyte. Carefully follow manufacturer's instructions for installation and service. Keep away all sources of gas ignition and do not allow metallic articles to simultaneously contact the negative and positive terminals of a battery.

VI. ACCIDENTAL RELEASE MEASURES

Remove combustible materials and all sources of ignition. Stop flow of material and contain spill by diking with soda ash, etc. Carefully neutralize spill with soda ash, etc. Make certain mixture is neutral then collect residue and place in a drum or other suitable container with a label specifying "contains hazardous waste" or (if uncertain call distributor regarding proper labeling procedures). Dispose of as hazardous waste. If battery is leaking, place battery in a heavy duty plastic bag. Wear acid resistant boots, face shield, chemical splash goggles and acid resistant gloves. Do not allow discharge of acid to sewer. Acid must be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

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VII. HANDLING AND STORAGE						
Handling: Single batteries pose no risk of electric shock but there may be increasing risk of electric shock from strings of connected batteries exceeding three 12-volt units. Batteries are non-spillable - potential for exposure to contents only during recycling or if outer casing is cracked or damaged.						
Storage: Store batteries under roof in cool, dry, well-ventilated areas that are separated from incompatible materials and from activities which may create flames, sparks, or heat. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit.						
Charging: There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being charged.						
VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION						
Occupational Exposure Limits (mg/m3)						
Ingredient: Inorganic forms of:	US OSHA	US ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Lead Antimony Oxide (Sb2O3)	0.05 (0.5a) 2	0.05 (0.5a) 2	0.05 (0.5a) 2	0.05 (0.5a) 2	0.05 (0.5a) 2	0.15(c) 0.1(c,e) 2(f)
Copper Calcinated Clay	1 N/A	1 N/A	1 N/A	1 N/A	1(b) N/A	0.1(g) N/A
Electrolyte (sulfuric acid)	1	0.2	1	1	0.2	0.05(d)
NOTES: N/A not applicable (c) based on OEL for Austria & Switzerland (a) as inorganic antimony (f) based on OEL for Belgium (b) as dusts/mists (g) based on OEL for Netherlands (c) as inhalable aerosol (d) thoracic fraction						
Engineering Controls (Ventilation): Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when charging or handling batteries. Follow all manufacturers' recommendations when stacking or palletizing. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Use a battery carrier to lift a battery or place hands at opposite corners to avoid spilling acid through the vents. Avoid contact with internal components of the batteries.						
Hygiene Practices: Wash hands thoroughly before eating, drinking or smoking after handling batteries.						
Respiratory Protection (NIOSH/MSHA approved): None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.						
Skin Protection: None required under normal conditions. If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing, and boots.						
Eye Protection: None required under normal conditions. If battery case is damaged, chemical goggles or face shield.						
Other Protection: In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and						

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IX. PHYSICAL AND CHEMICAL PROPERTIES - ELECTROLYTE			
Boiling Point@760 mm Hg	203° F	Specific Gravity @ 70oF (H2O=1)	1.230 to 1.350
Melting Point	Not Applicable	Vapor Pressure (mm Hg)	10
% Solubility in Water	100	pH	Greater than 1
Evaporation Rate (Butyl acetate=1)	Less Than 1	Vapor Density (AIR=1)	Greater than 1
Appearance and Odor	A clear liquid with a sharp, penetrating, pungent odor. A battery is a manufactured article; no apparent odor.	Viscosity	Not applicable
		% Volatiles by Volume @70oF	Not Applicable
X. STABILITY & REACTIVITY DATA			
Stability:	Stable Unstable	X —	
Conditions to Avoid: Prolonged overcharging and overheating current; sparks and other sources of ignition.			
Incompatibilities: (materials to avoid) Electrolyte: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, most metals, carbides, chlorates, nitrates, picrate, sulfur trioxide gas, strong oxidizers, and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.  Lead compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen, potassium, carbides, sulfides, phosphorus, sulfur, and reducing agents.			
Hazardous Decomposition Products: Electrolyte: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide, hydrogen.  Lead compounds: Temperatures above the melting point are likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.			
Hazardous Polymerization: Will Not Occur			
XI. TOXICOLOGICAL DATA			
Routes of Entry: Electrolyte: Harmful by all routes of entry. Under normal conditions of use, sulfuric acid vapors and mist are not generated. Sulfuric acid vapors and mist may be generated when product is overheated, oxidized, or otherwise processed or damaged.  Lead compounds/antimony oxide: Hazardous exposure can occur only when product is heated above the melting point, oxidized or otherwise processed or damaged to create dust, vapor, or fume.			
Acute Toxicity: <i>Inhalation LD50:</i> Electrolyte: LC50 rat 75 mg/m3; LC50: guinea pig: 510 mg/m3 Elemental Lead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion) Antimony oxide : rat(4h)LC50 >5.2mg/m3 <i>Oral LD50:</i> Electrolyte: $TD_{01}$ 2140 mg/kg Elemental lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion) Antimony oxide : LD50 rat > 20,000mg/kg			
Inhalation: Electrolyte: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation. Lead compounds/antimony oxide: Inhalation of dust or fumes may cause irritation of upper respiratory tract and lungs.			
Ingestion: Electrolyte: May cause severe irritation of mouth, throat, esophagus, and stomach. Lead compounds/antimony oxide: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. This may lead rapidly to systemic toxicity. Acute ingestion should be treated by physician.			
Skin Contact: Electrolyte: Severe irritation, burns, and ulceration. Sulfuric acid is not readily absorbed through the skin. Lead compounds: Not readily absorbed through the skin. Antimony oxide: skin irritant.			

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Eye Contact: Electrolyte: Severe irritation, burns, cornea damage, blindness. Lead compounds: May cause eye irritation. Antimony oxide: may cause eye irritation.	
Additional Information: Medical Conditions Generally Aggravated by Exposure: Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of electrolyte (water and sulfuric acid solution) with skin may aggravate skin diseases such as eczema and contact dermatitis. Contact of electrolyte (water and sulfuric acid solution) with eyes may damage cornea and/or cause blindness. Lead and its compounds can aggravate some forms of kidney, liver, and neurologic diseases.	
Additional Health Data: All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section VIII. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the work site. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home nor laundered with personal non-contaminated clothing.	
This product is intended for industrial use only and should be isolated from children and their environment.	
XII. ECOLOGICAL INFORMATION	
Environmental Fate: lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is slow. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain. Most studies include lead compounds and not elemental lead.	
Environmental Toxicity: Aquatic Toxicity: Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L 96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion Antimony : 96 hr LC50 freshwater fish (Brachydanio rerio) >1,000mg/L	
XIII. DISPOSAL INFORMATION	
US	Sulfuric Acid: Neutralize as described above for a spill, collect residue and place in a container labeled as containing hazardous waste. Dispose of as a hazardous waste. If uncertain about labeling procedures, call your local battery distributor or listed contact. DO NOT FLUSH LEAD CONTAMINATED ACID TO SEWER.  Spent batteries Send to secondary lead smelter for recycling following applicable federal, state, and local regulations.
XIV. TRANSPORT INFORMATION	
GROUND: - US DOT: Proper Shipping Name: Not applicable Hazard Class: Not applicable ID Number: Not applicable Packing Group: Not applicable Labels: NONSPILLABLE  Not regulated pursuant to §173.159a of the DOT Hazardous Materials Regulations (49 CFR Parts 171-180) provided each package is marked "NONSPILLABLE" or "NONSPILLABLE BATTERY" and is secured in strong outer packaging.  AIRCRAFT - ICAO - IATA: For air shipments, reference IATA Dangerous Goods Regulations Special Provision A-67.  VESSEL - IMO-IMDG: For ocean shipments, reference IMDG Special Provision #238.	
-Note: GNB batteries which have met the test requirements for "nonspillable batteries" in shipment must be protected against short circuit and securely packaged	
XV. REGULATORY INFORMATION	
United States: EPA SARA Title III Section 302 EPCRA Extremely Hazardous Substances (EHS): Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.	

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EPCRA Section 302 notification is required if 500 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). An average automotive/commercial battery contains approximately 5 lbs of sulfuric acid. Contact your Exide representative for additional information.		
Section 304 CERCLA Hazardous Substances: Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.		
Section 311/312 Hazard Categorization: EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of 500 lbs or more and/or if lead is present in quantities of 10,000 lbs or more.		
Section 313 EPCRA Toxic Substances: Supplier Notification: This product contains a toxic chemical or chemicals subject to the reporting requirements of section 313 of (Title) III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.		
Chemical	CAS	Percent by Weight
Lead (Pb)	7439-92-1	71-76
Electrolyte: Sulfuric Acid (H2SO4)	7664-93-9	16-18
Antimony trioxide (Sb2O3)	1309-64-4	<0.6
If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year. Note: The Section 313 supplier notification requirement does not apply to batteries that are "consumer products".		
TSCA: Each ingredient chemical listed in Section II of this MSDS is also listed on the TSCA Registry.  OSHA: Considered hazardous under Hazard Communication Act (29CFR1910.1200)  RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled. Spilled sulfuric acid is a characteristics hazardous waste; EPA hazardous waste number D002 (corrosivity).  CAA: Exide Technologies supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, Exide established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.		
NFPA Hazard Rating for sulfuric acid: Flammability (Red) = 0 Health (Blue) = 3 Reactivity (Yellow) = 2		
US State Notifications & Warnings:	Identification	Notifications/Warning
California	California Proposition 65	"WARNING: This product contains lead and antimony trioxide, chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm." Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. The following chemicals identified to exist in the finished product as distributed into commerce are known to the State of California to cause cancer, birth defects or to cause reproductive harm: 1. Strong inorganic acid mists including sulfuric acid: CAS #: NA; 16-18% wt 2. Lead: CAS #: 7439-92-1; 71-76% wt. 3. Antimony oxide: CAS #: 7440-36-0; <0.6%wt. This product is not regulated as a consumer product for purposes of CARB/OTC VOC Regulations, as sold for the intended purpose and into the industrial/commercial supply chain.
Consumer Product Volatile Organic Compound Emissions		

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PREPARED FOR

5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:

2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&amp;T Site ID:

CNU5570

AT&amp;T SITE NO: CNU5570

PACE NO:

DRAWN BY: BH

CHECKED BY: SMR

REV	DATE	DESCRIPTION
9	01/04/18	PLANNING COMMENTS
8	12/04/17	CIVIL REDLINES
7	10/24/17	REVISED EQUIPMENT
6	08/30/17	PLANNING COMMENTS
5	06/01/17	CLIENT COMMENTS
4	04/06/17	PLANNING COMMENTS
3	12/21/16	CLIENT COMMENTS
2	10/04/16	CLIENT COMMENTS
1	09/30/16	CLIENT COMMENTS
0	08/23/16	100% ZDs
A	08/11/16	90% ZDs

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Issued For:

CNU5570  
COTTON BASICS4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

MATERIAL SAFETY  
DATA SHEET & LEAD  
ACID BATTERY -1

Sheet Number:

GN-3

Country/Organization	Identification	Notifications/Warning												
Canada	All chemical substances in this product are listed on the CEPA DSL/NDSL or are exempt from list requirements.													
	NPRI and Ontario Regulation 127/01	This product contains the following chemicals subject to the reporting requirements of Canada NPRI and/or Ont. Reg. 127/01: <table><tr><td>Chemical</td><td>CAS #</td><td>%wt</td></tr><tr><td>Lead</td><td>7439-92-1</td><td>71-76</td></tr><tr><td>Sulfuric acid</td><td>7664-93-9</td><td>16-18</td></tr><tr><td>Antimony oxide</td><td>1309-64-4</td><td>&lt;0.6</td></tr></table>	Chemical	CAS #	%wt	Lead	7439-92-1	71-76	Sulfuric acid	7664-93-9	16-18	Antimony oxide	1309-64-4	<0.6
Chemical	CAS #	%wt												
Lead	7439-92-1	71-76												
Sulfuric acid	7664-93-9	16-18												
Antimony oxide	1309-64-4	<0.6												
	Toxic Substances List	Lead												
EU	European Inventory of Existing Commercial Chemical Substances (EINECS):	All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.												
XVI. OTHER INFORMATION														
DATE ISSUED: SEPTEMBER 17, 2012														
OTHER INFORMATION:														
SOURCES OF INFORMATION:														
PREPARED BY: GNB INDUSTRIAL POWER A DIVISION OF EXIDE TECHNOLOGIES 3950 SUSSEX AVENUE AURORA, IL 60504-7932														
VENDEE AND THIRD PERSONS ASSUME THE RISK OF INJURY PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT FOLLOWED AS PROVIDED FOR IN THE DATA SHEET, AND VENDOR SHALL NOT BE LIABLE FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE PROCEDURES ARE FOLLOWED.  ALL PERSONS USING THIS PRODUCT, ALL PERSONS WORKING IN AN AREA WHERE THIS PRODUCT IS USED, AND ALL PERSONS HANDLING THIS PRODUCT SHOULD BE FAMILIAR WITH THE CONTENTS OF THIS DATA SHEET. THIS INFORMATION SHOULD BE EFFECTIVELY COMMUNICATED TO EMPLOYEES AND OTHERS WHO MIGHT COME IN CONTACT WITH THE PRODUCT.  WHILE THE INFORMATION ACCUMULATED AND SET FORTH HEREIN IS BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, EXIDE TECHNOLOGIES MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE FOR THEIR PARTICULAR CIRCUMSTANCES.														
ANY PHOTOCOPY MUST BE OF THIS ENTIRE DOCUMENT														

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# MARATHON®

### From the World Leader in VRLA Battery Technology

Designed for durability in Telecommunications and Electric Utility applications, the GNB® Industrial Power Front Terminal MARATHON® series provides high performance and reliability in long duration discharge applications. The location of the terminals on the front (vs. the top) of the battery greatly facilitates the installation and maintenance of the product when placed in a cabinet enclosure or on a standard relay rack tray. The MARATHON® Front Terminal battery series highlights another example of GNB's extensive experience and worldwide leadership in VRLA technology.

#### “Designed-in” Quality Manufacturing

Quality manufacturing processes for the MARATHON® series batteries incorporate the industry's most advanced technologies including: an automated helium leak detection system, a computer controlled “fill by weight” acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

#### High Performance MARATHON® Features

- Patented “Diamond Side-Wall” Design maintains structural integrity in higher operating temperatures
- Durable Flame Retardant Polypropylene Container and Cover complies with UL94 V-0; 28% L.O.I.
- Carry Handles facilitate ease of installation
- High-Compression Absorbent Glass Mat (AGM) Technology ensures greater than 99% recombination efficiency
- Integrated Flash Arrestor ultrasonically welded into cover for secure and safe protection
- 10 Year Design Life in float applications @ 25°C (77°F); 12 year @ 20°C (68°F)
- Superior Lead-Tin-Calcium Positive Alloy helps to resist corrosion
- Higher Vent Opening Pressure minimizes unnecessary gassing; one-way self resealing device
- Front Accessible Copper Alloy, 6 mm, Female Terminals ensures low resistance, high integrity connections
- “Easy On/Easy Off” Terminal Post Protector provides added safety
- Post Design accommodates voltage /diagnostic probes
- Footprint Ready fits in all standard 23” Relay Rack Applications
- Compliance: Designed in accordance with IEC 60896-21/-22
- No Transport Restrictions: Complies with IATA/ICAO Special Provision A67: DOT-CFR Title 49; IMDG Amendment 34-08

2

#### Applications

MARATHON® Batteries incorporate GNB's advanced VRLA technology designed for long life and high performance in:

##### Telecommunications

- Distributed Power
- PCS
- Cellular
- Broadband

##### Electric Utility

- Switchgear Control Power
- Communications

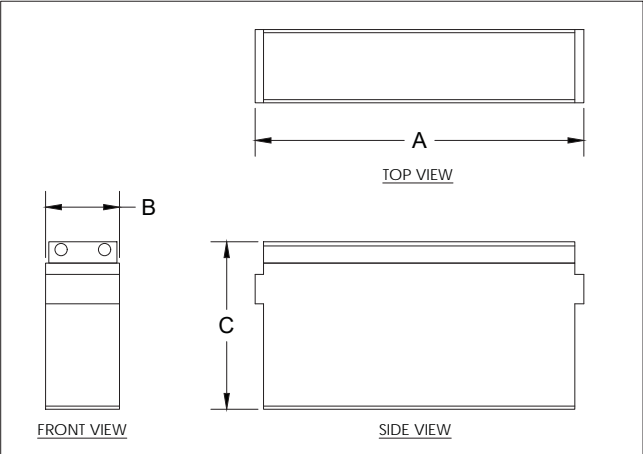
##### UPS

- Industrial Long Duration

UL Recognized Component

MARATHON FRONT TERMINAL SPECIFICATIONS

MODEL NUMBER	VOLTAGE	CAPACITY (AH)		NOMINAL DIMENSIONS						NOMINAL WEIGHT	
		8HR TO 1.75 VPC @ 25°C	10HR TO 1.75 VPC @ 20°C	INCHES			MILLIMETERS				
				A	B	C	A	B	C	LBS.	KG.
M12V90FT	12	86	86	15.55	4.13	10.63	395	105	270	79	35.8
M12V105FT	12	104	100	20.12	4.33	9.38	511	110	238	79	35.8
M12V125FT	12	125	121	22.00	4.90	11.15	559	124	283	105	47.6
M12V155FT	12	155	150	22.00	4.90	11.15	559	124	283	119	53.8
M12V180FT	12	180	175	22.00	4.90	12.50	559	124	318	133	60



MARATHON FRONT TERMINAL SPECIFICATIONS

MODEL NUMBER	SHORT CIRCUIT CURRENT AMPS	INTERNAL RESISTANCE (mOhms)
M12V90FT	2358	4.5
M12V105FT	3125	4.0
M12V125FT	2814	3.2
M12V155FT	3883	3.0
M12V180FT	4147	3.0

FLOAT VOLTAGE & CHARGING

CONSTANT VOLTAGE CHARGING IS RECOMMENDED.

RECOMMENDED FLOAT VOLTAGE: 2.27 VPC @ 25°C (77°F)

FLOAT VOLTAGE RANGE: 2.25 TO 2.30 VPC @ 25°C (77°F)

EQUALIZE VOLTAGE: 2.35 VPC FOR 24 HOURS OR  
2.40 VPC FOR 12 HOURS

NOTE:

DESIGN AND/OR SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. IF QUESTIONS ARISE, CONTACT YOUR LOCAL GNB SALES REPRESENTATIVE FOR CLARIFICATION.

BATTERY INFORMATION																	
BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED (EA)	TOTAL ELECTROLYTE VOLUME (GALLONS) PER UNIT	TOTAL ELECTROLYTE WEIGHT (LBS) PER UNIT	TOTAL SULFURIC ACID VOLUME (GALLONS) PER UNIT	TOTAL SULFURIC ACID WEIGHT (LBS) PER UNIT	% SULFURIC ACID BY VOLUME =	TOTAL SULFURIC ACID VOLUME/UNIT	TOTAL SULFURIC ACID BY VOLUME (GALLONS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID VOLUME/UNIT	% SULFURIC ACID BY WEIGHT =	TOTAL SULFURIC ACID WEIGHT/UNIT	TOTAL SULFURIC ACID BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL SULFURIC ACID WEIGHT/UNIT	TOTAL ELECTROLYTE BY VOLUME (GALLONS) =	TOTAL # OF UNITS x TOTAL ELECTROLYTE VOLUME/UNIT	TOTAL ELECTROLYTE BY WEIGHT (LBS) =	TOTAL # OF UNITS x TOTAL ELECTROLYTE WEIGHT/UNIT
GNB INDUSTRIAL POWER MARATHON - M12V180FT	12	2.47	27.27	0.74	11.44	29.96%		8.88		41.95%		137.28		29.64		327.24	

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&T Site ID:

CNU5570

AT&T SITE NO: CNU5570

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REV	DATE	DESCRIPTION
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0	08/23/16	100% ZDs
A	08/11/16	90% ZDs

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COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

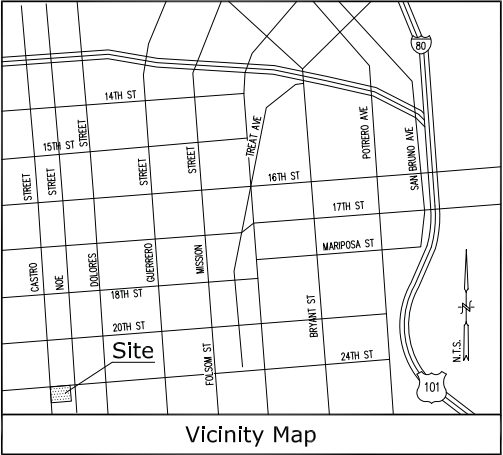
Sheet Title:

MATERIAL SAFETY  
DATA SHEET & LEAD  
ACID BATTERY -2

Sheet Number:

GN-4





Title Report

PREPARED BY: STEWART TITLE GUARANTY COMPANY  
ORDER NO.: 01180-232528  
DATED: JULY 15, 2016

Legal Description

THE LAND REFERRED TO IN THIS GUARANTEE IS DESCRIBED AS FOLLOWS:  
BEGINNING AT A POINT FORMED BY THE INTERSECTION OF THE SOUTHERLY LINE OF TWENTY-FOURTH STREET WITH THE EASTERLY LINE OF CASTRO STREET, RUNNING THENCE SOUTHERLY ALONG THE EASTERLY LINE OF CASTRO STREET 25 FEET; THENCE AT A RIGHT ANGLE EASTERLY 80 FEET; THENCE AT A RIGHT ANGLE NORTHERLY 25 FEET TO THE SOUTHERLY LINE OF TWENTY-FOURTH STREET; AND THENCE WESTERLY ALONG THE SOUTHERLY LINE OF TWENTY-FOURTH STREET 80 FEET TO ITS INTERSECTION WITH THE EASTERLY LINE OF CASTRO STREET AND THE POINT OF BEGINNING.  
BEING A PORTION OF HORNER'S ADDITION BLOCK NO. 161.

Assessor's Parcel No.

6507-017

Easements

NO EASEMENTS PER TITLE REPORT

Geographic Coordinates at Center of Proposed Sectors

1983 DATUM: LATITUDE 37° 45' 04.32" N LONGITUDE 122° 26' 01.66" W  
ELEVATION = 235.5 FEET ABOVE MEAN SEA LEVEL

CERTIFICATION:  
THE LATITUDE AND LONGITUDE SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 15 FEET HORIZONTALLY AND THAT THE ELEVATIONS SHOWN ABOVE ARE ACCURATE TO WITHIN +/- 3 FEET VERTICALLY. THE HORIZONTAL DATUM (GEOGRAPHIC COORDINATES) IS IN TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD 83) AND IS EXPRESSED IN DEGREES (°), MINUTES (') AND SECONDS ("). TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (ELEVATIONS) IS IN TERMS OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND IS DETERMINED TO THE NEAREST TENTH OF A FOOT.

Access/Utility Routes & Lease Area

AS SHOWN

Basis of Bearings

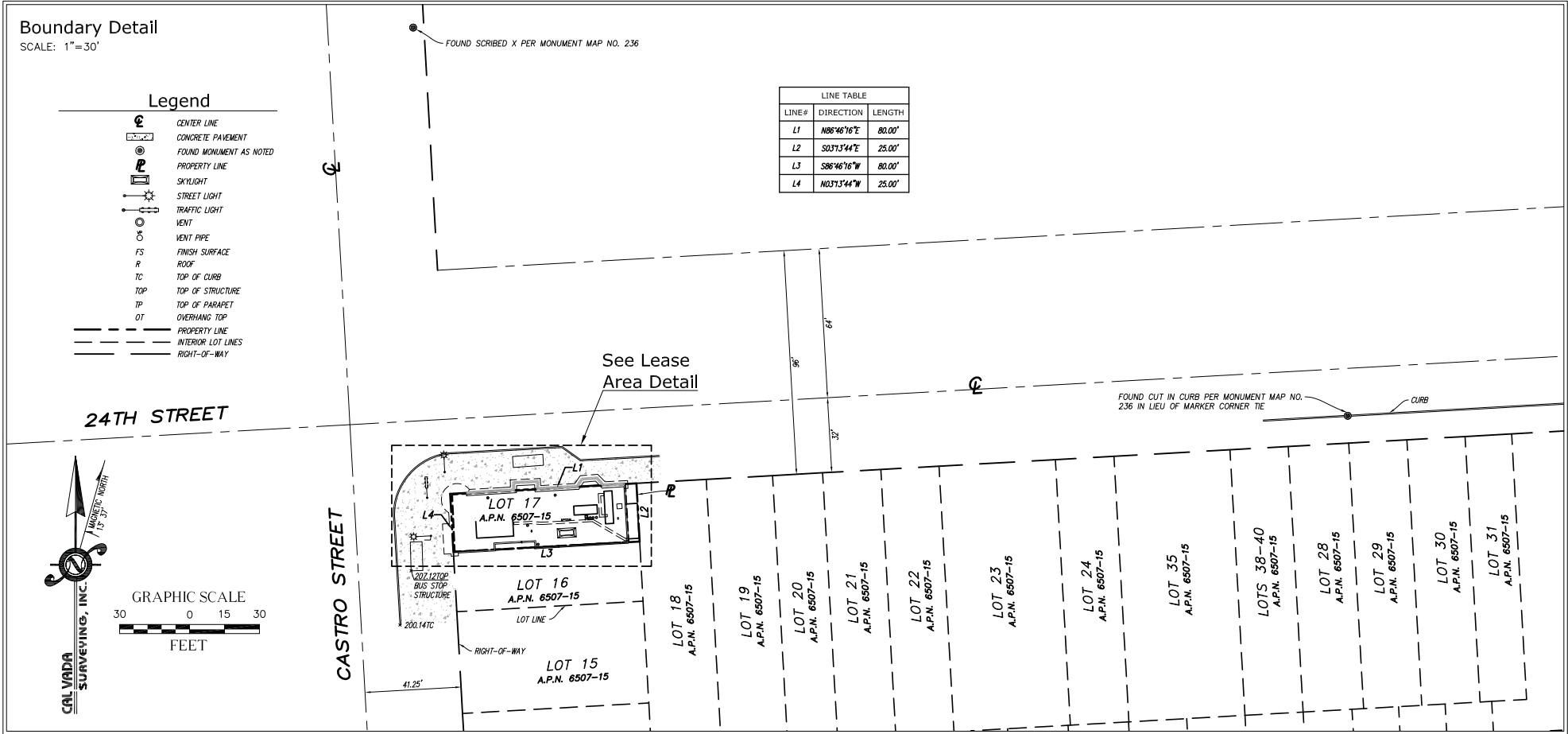
THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM (CCS 83), ZONE 3, 1983 DATUM, DERIVED BY SECTIONS 8801 TO 8810 OF THE CALIFORNIA PUBLIC RESOURCES CODE, BASED UPON STATIC GPS OBSERVATION, HOLDING THE CSRC DATA POINT "SBRN".

Bench Mark

THE ELEVATIONS SHOWN HEREON ARE BASED UPON STATIC GPS OBSERVATION, HOLDING THE CSRC DATA POINT "SBRN"; ELEVATION = 101.43 FEET (NAVD 88).

Date of Survey

SEPTEMBER 13, 2016



NOTES:  
1. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIG ALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT J5 INFRASTRUCTURE PARTNERS.

**THIS IS NOT A SITE SURVEY**  
ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



PREPARED FOR

5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:

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0	08/23/16	100% ZDs
A	08/11/16	90% ZDs

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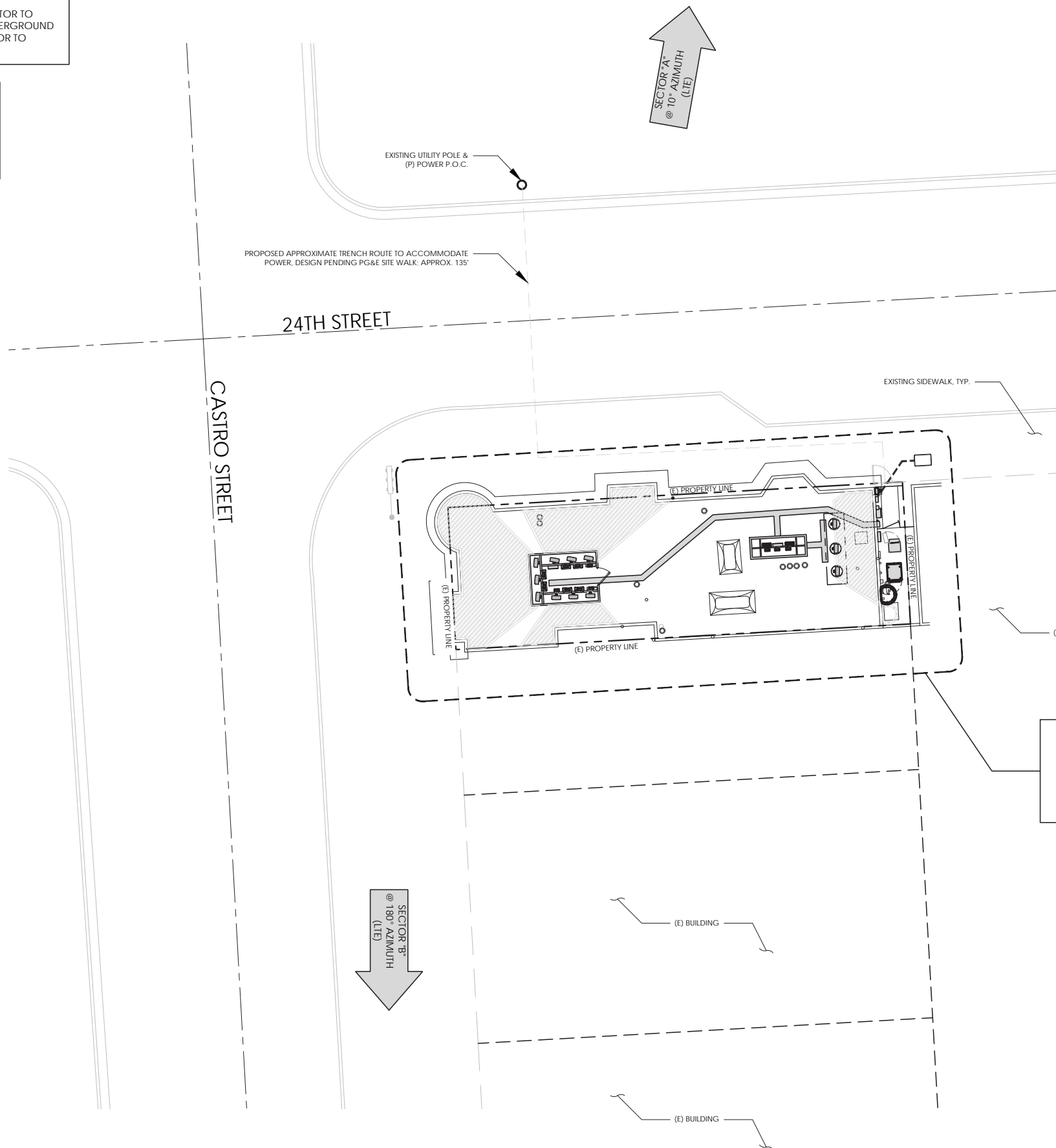
4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

**OVERALL SITE PLAN**

Sheet Number:

**A-1**



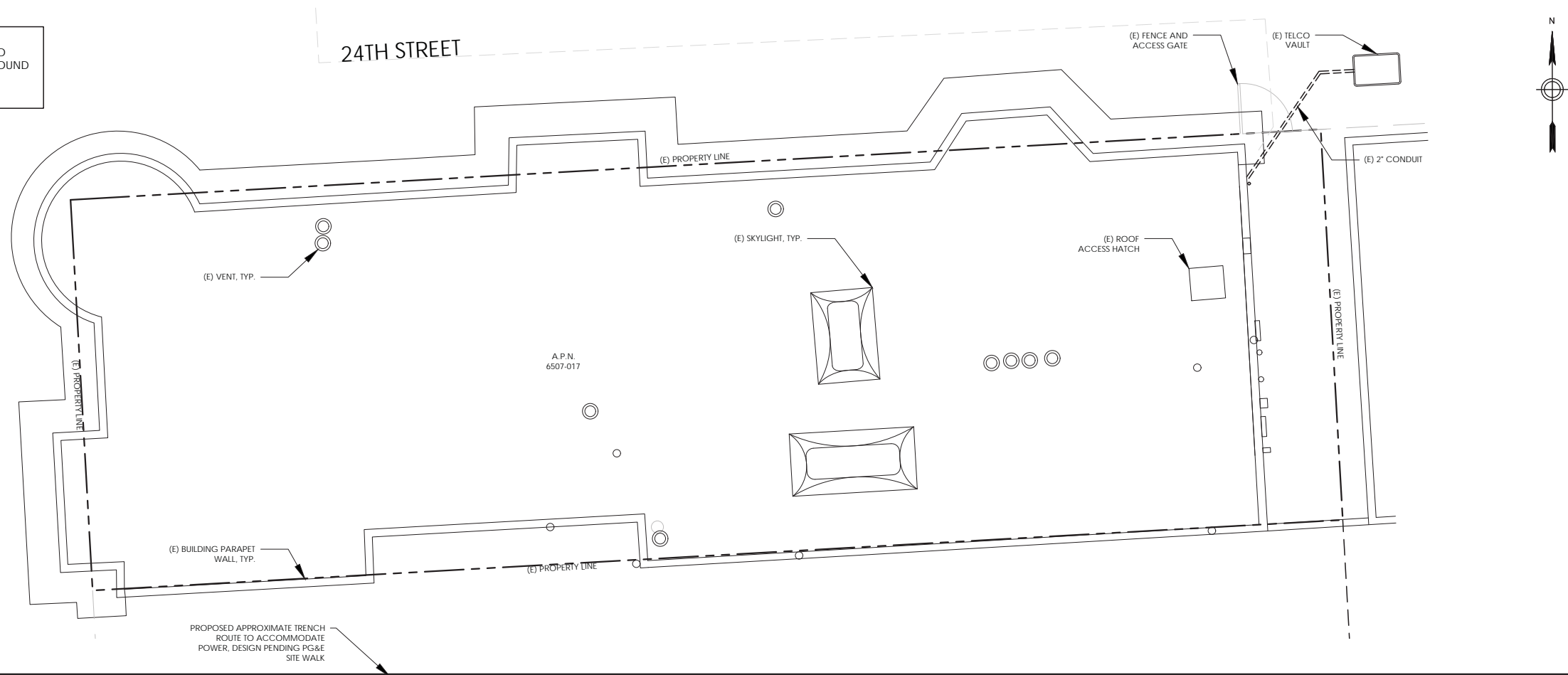
PROPOSED AT&T  
PROJECT AREA  
REFER TO ENLARGED SITE  
PLANS ON SHEETS A-2



NOTES:  
1. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIG ALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT J5 INFRASTRUCTURE PARTNERS.

**THIS IS NOT A SITE SURVEY**  
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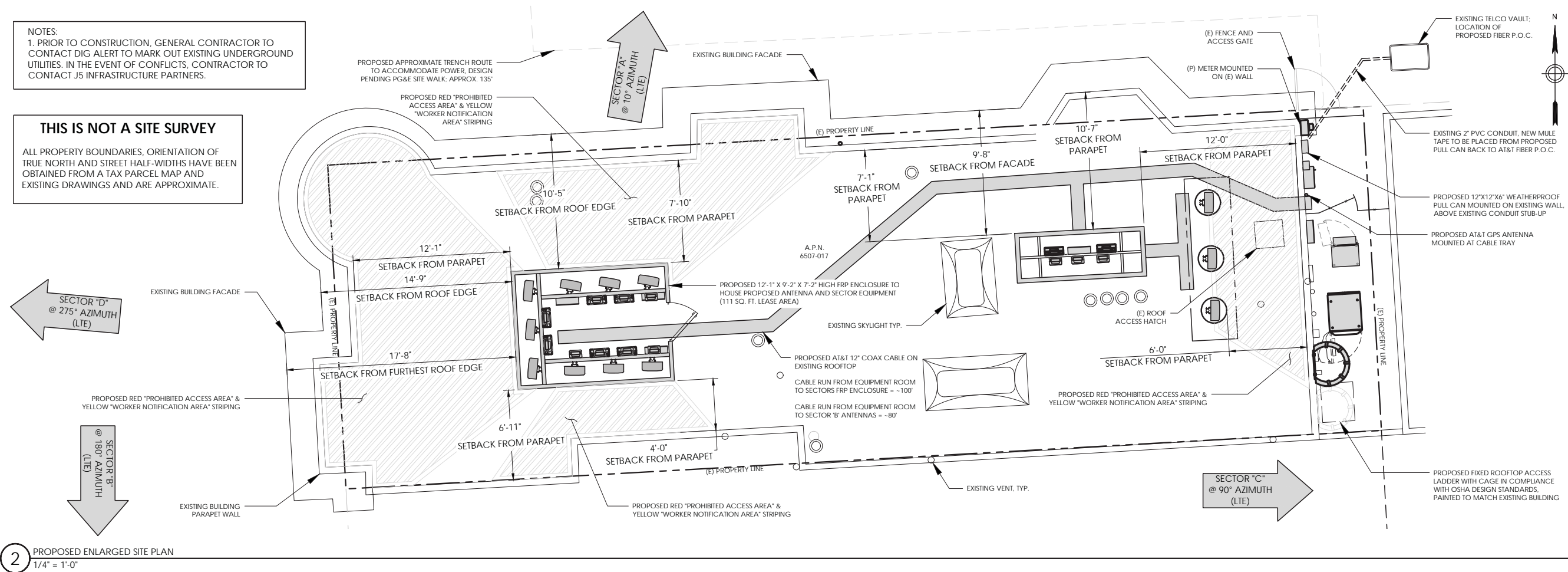
CASIRO STREET



1 EXISTING ENLARGED SITE PLAN  
1/4" = 1'-0"

NOTES:  
1. PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR TO CONTACT DIG ALERT TO MARK OUT EXISTING UNDERGROUND UTILITIES. IN THE EVENT OF CONFLICTS, CONTRACTOR TO CONTACT J5 INFRASTRUCTURE PARTNERS.

**THIS IS NOT A SITE SURVEY**  
ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS HAVE BEEN OBTAINED FROM A TAX PARCEL MAP AND EXISTING DRAWINGS AND ARE APPROXIMATE.



2 PROPOSED ENLARGED SITE PLAN  
1/4" = 1'-0"

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
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A	08/11/16	90% ZDs

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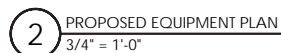
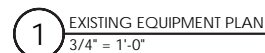
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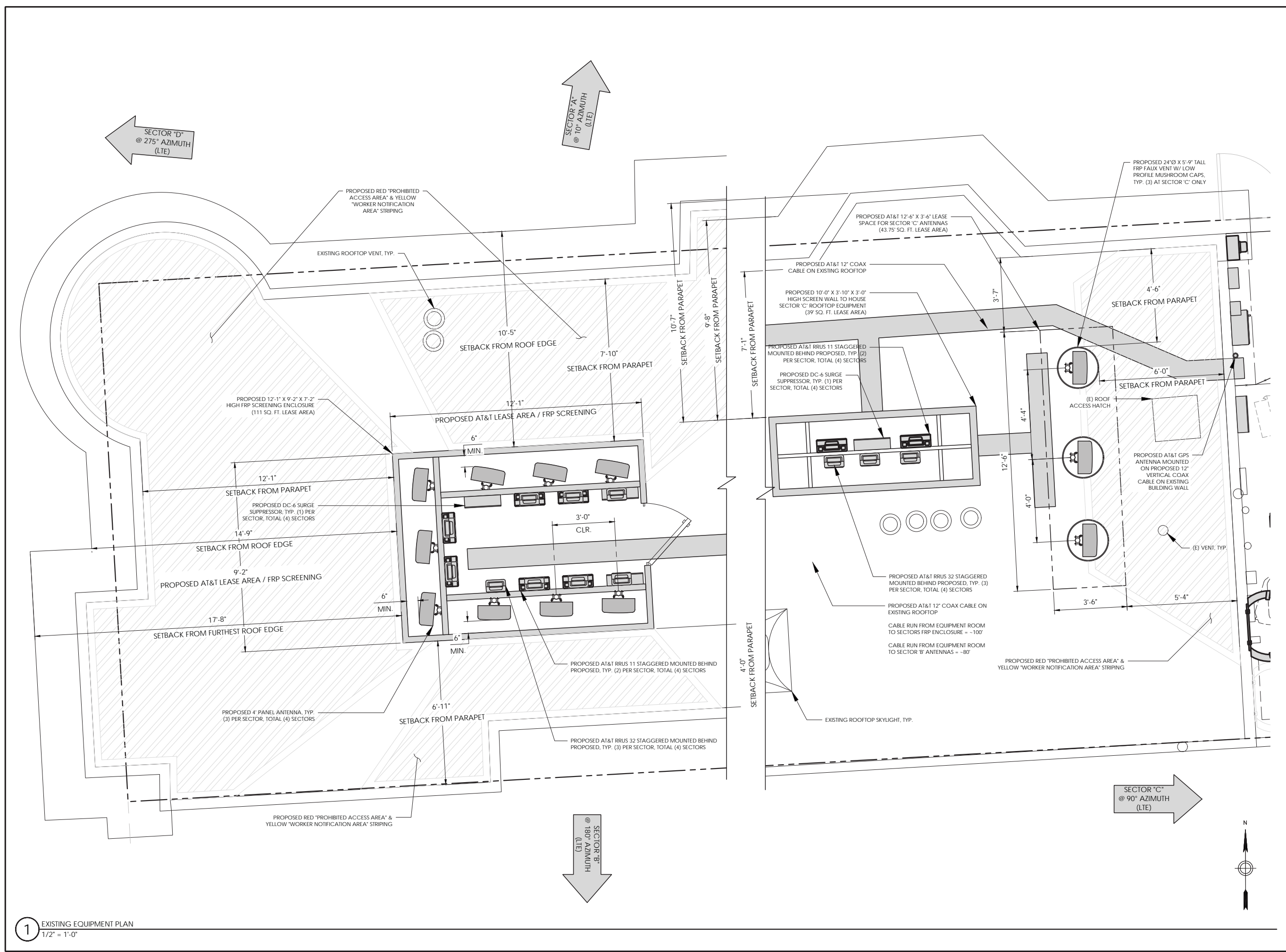
**EXISTING & PROPOSED ENLARGED SITE PLAN**

Sheet Number:


**A-2**



**A-3**



1 EXISTING EQUIPMENT PLAN  
1/2" = 1'-0"

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5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:  
  
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2030 MAIN STREET, SUITE 200  
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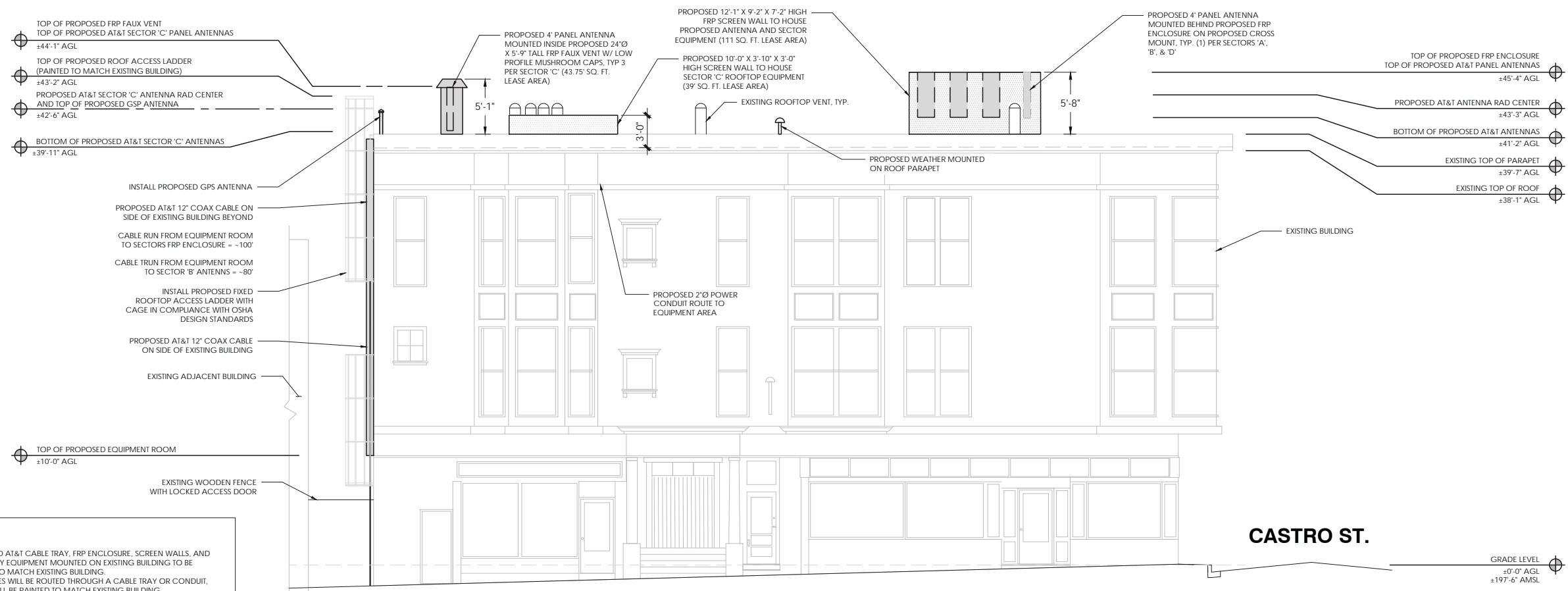
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**COTTON BASICS**  
4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:  
**EXISTING AND PROPOSED ANTENNA PLAN**

Sheet Number:  
**A-4**



1 EXISTING NORTH ELEVATION  
3/8" = 1'-0"



NOTE:

1. PROPOSED AT&T CABLE TRAY, FRP ENCLOSURE, SCREEN WALLS, AND ANCILLARY EQUIPMENT MOUNTED ON EXISTING BUILDING TO BE PAINTED TO MATCH EXISTING BUILDING.
2. ALL CABLES WILL BE ROUTED THROUGH A CABLE TRAY OR CONDUIT, WHICH WILL BE PAINTED TO MATCH EXISTING BUILDING.

2 PROPOSED NORTH ELEVATION  
3/8" = 1'-0"

PREPARED FOR



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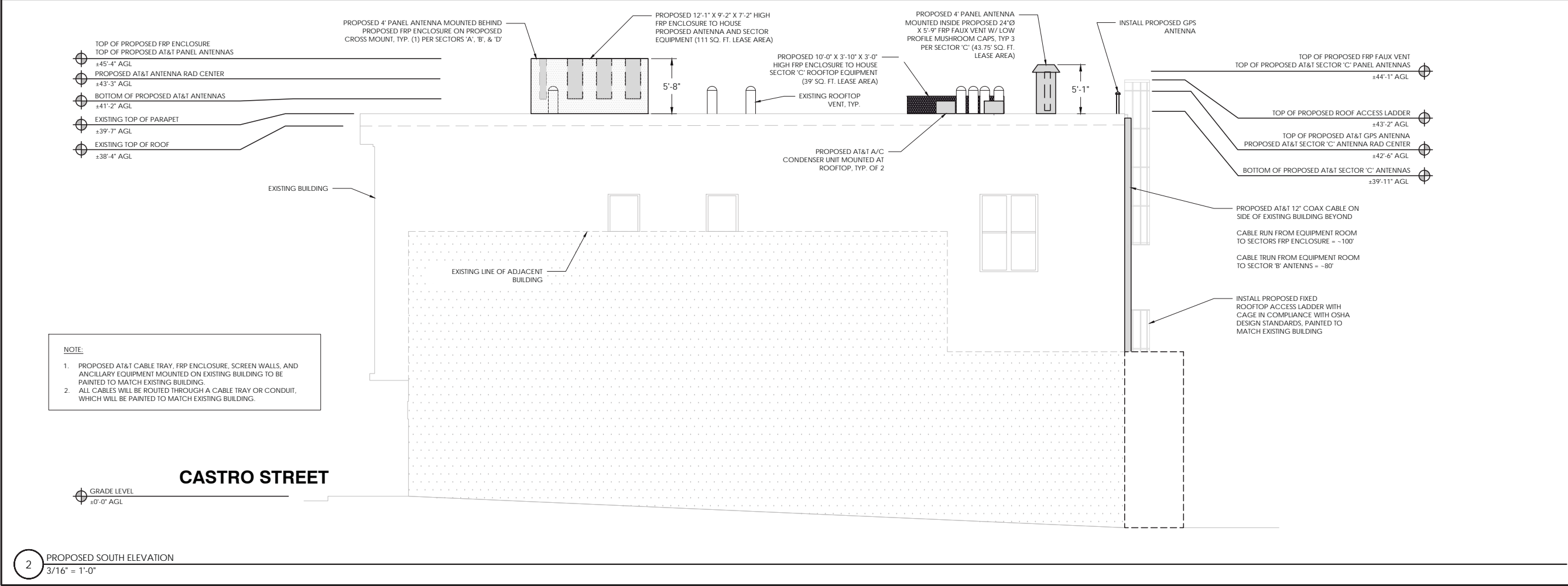
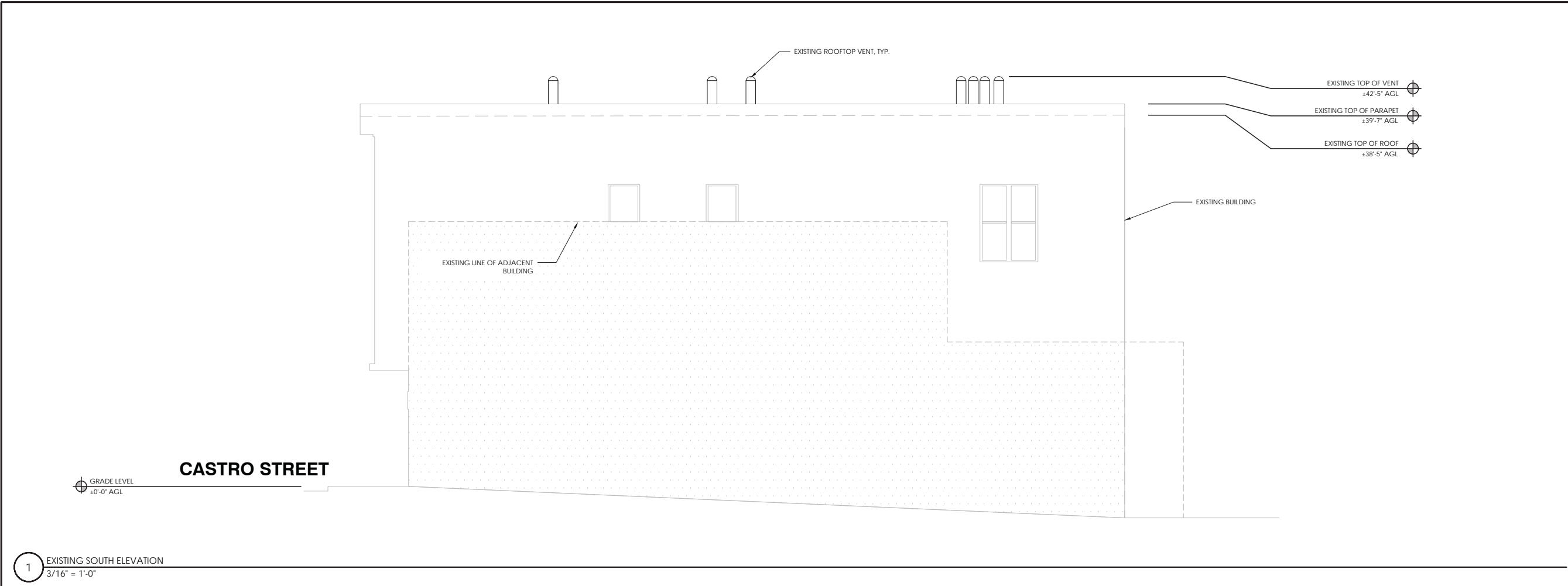
Sheet Title:

**EXISTING AND PROPOSED NORTH ELEVATION**

Sheet Number:

**A-5**





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0	08/23/16	100% ZDs
A	08/11/16	90% ZDs

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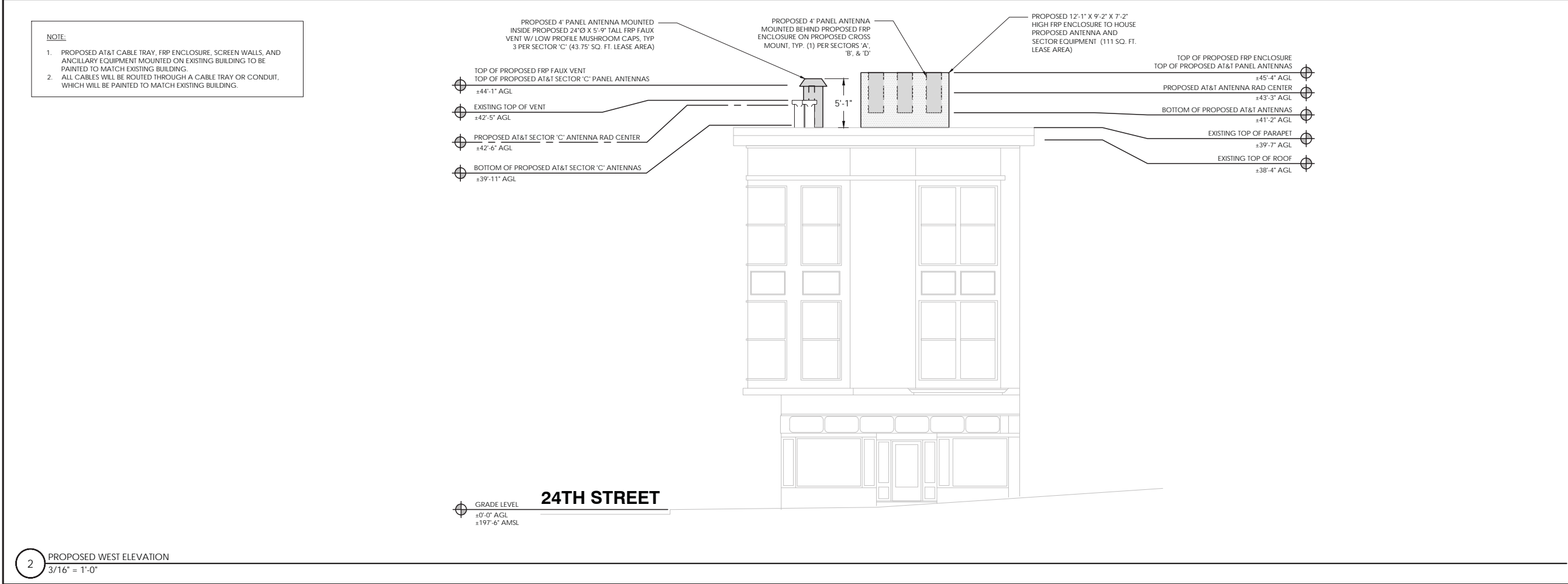
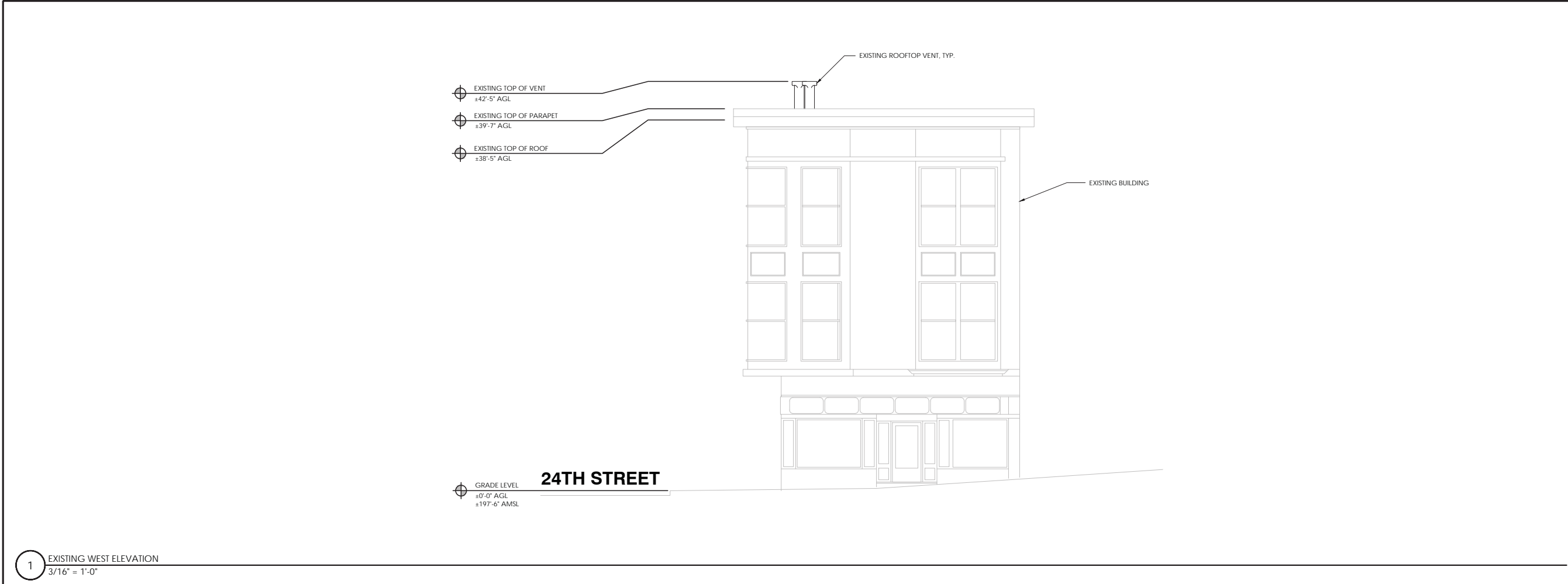
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Sheet Title:

**EXISTING AND PROPOSED SOUTH ELEVATION**

Sheet Number:

**A-6**



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AT&T SITE NO: CNU5570

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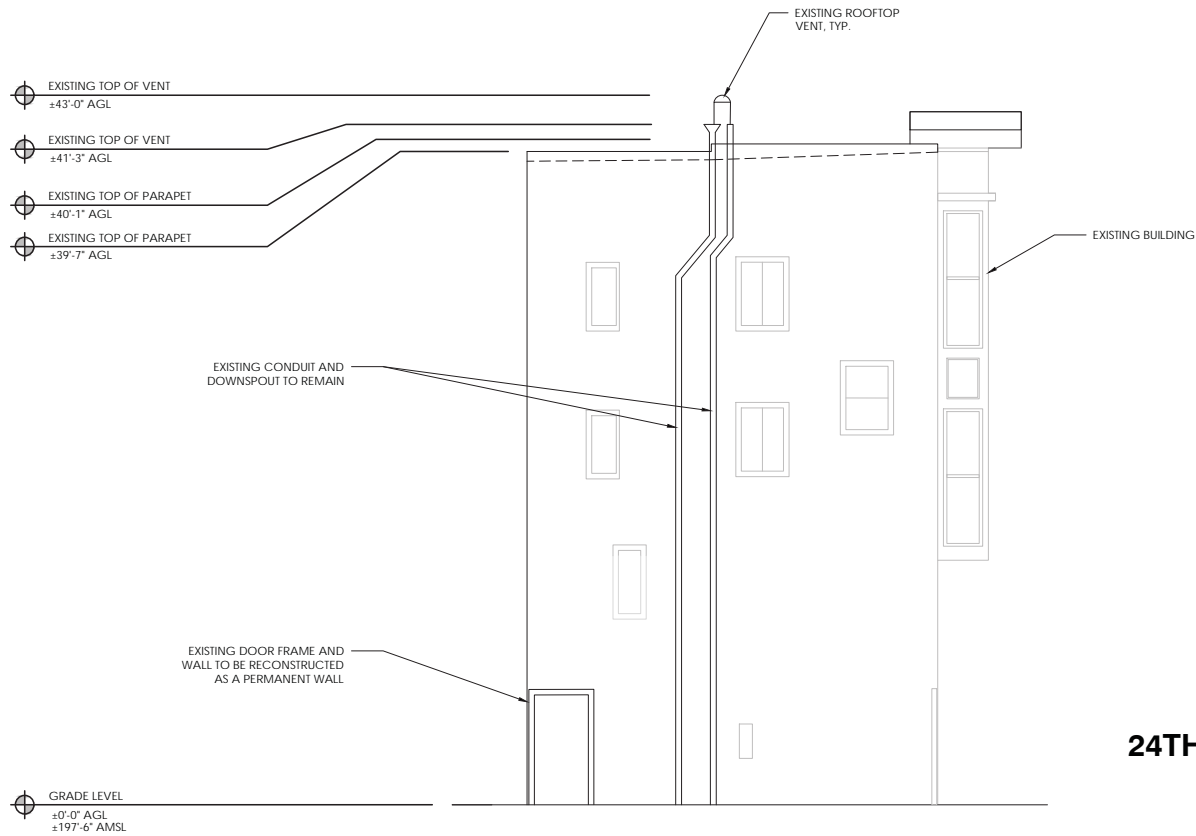
4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

EXISTING AND PROPOSED WEST ELEVATION

Sheet Number:

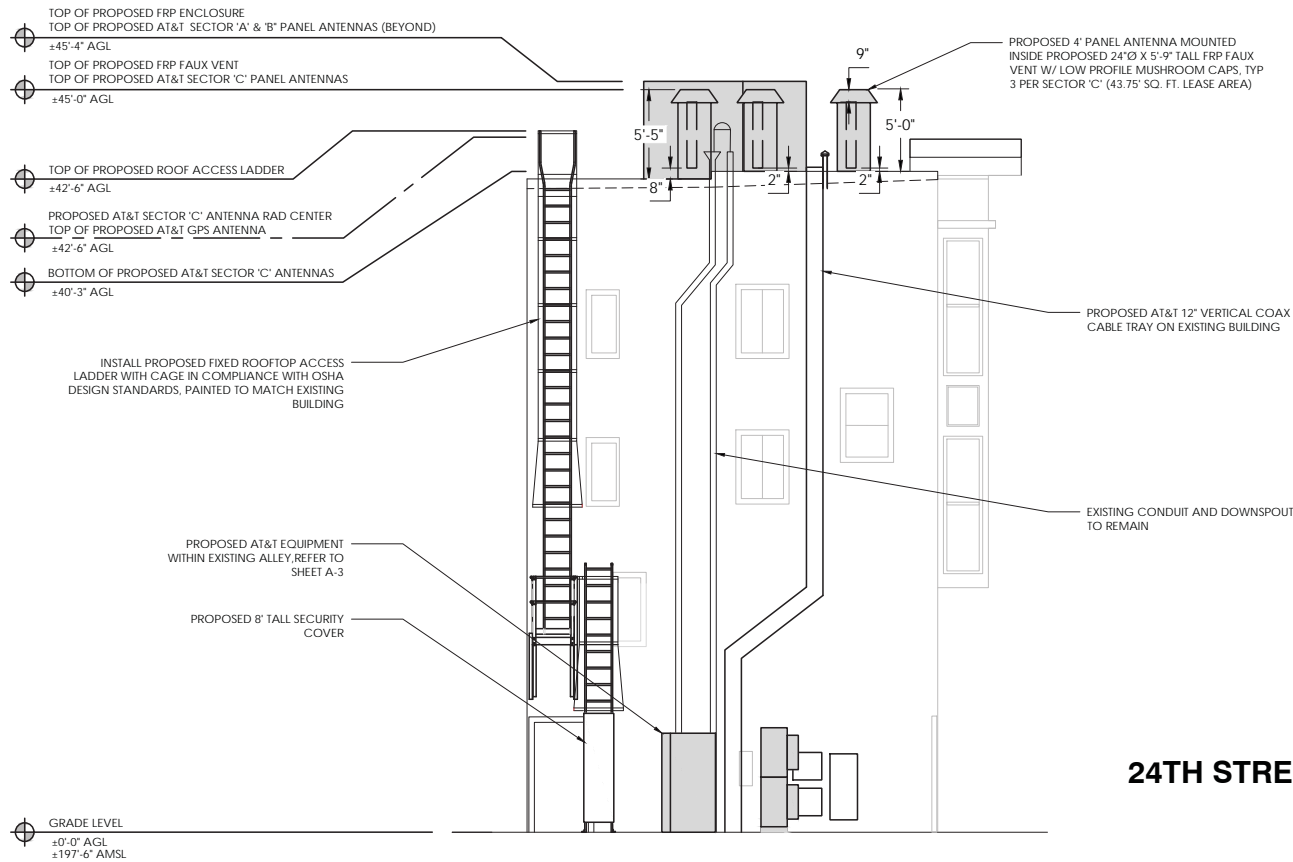
A-7



24TH STREET

1 EXISTING EAST ELEVATION  
3/16" = 1'-0"

- NOTE:**
1. PROPOSED AT&T CABLE TRAY, FRP ENCLOSURE, SCREEN WALLS, AND ANCILLARY EQUIPMENT MOUNTED ON EXISTING BUILDING TO BE PAINTED TO MATCH EXISTING BUILDING.
  2. ALL CABLES WILL BE ROUTED THROUGH A CABLE TRAY OR CONDUIT, WHICH WILL BE PAINTED TO MATCH EXISTING BUILDING.



24TH STREET

2 PROPOSED EAST ELEVATION  
3/16" = 1'-0"

PREPARED FOR

**at&t**  
Mobility

5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:

**JS INFRASTRUCTURE**  
PARTNERS  
AZ - CA - CO - ID - NM - NV - TX - UT

2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

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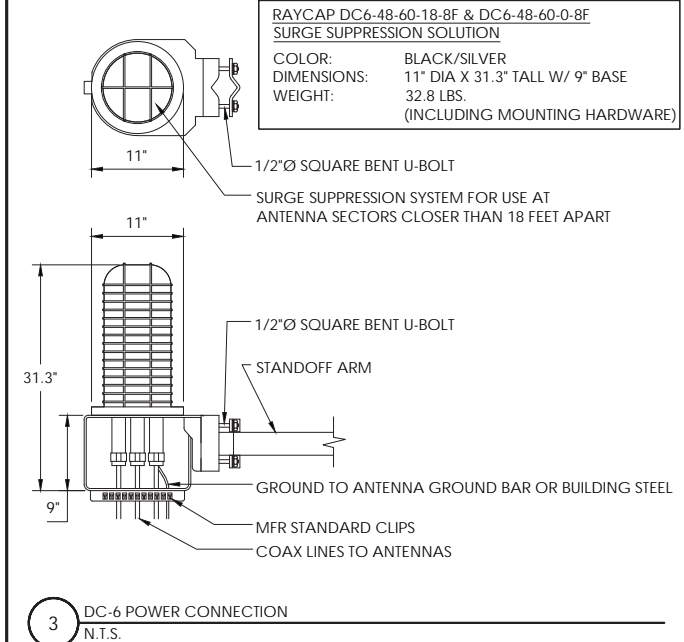
**EXISTING AND PROPOSED EAST ELEVATION**

Sheet Number:

**A-8**

8	NOT USED
	N.T.S.

6	NOT USED
	N.T.S.



3 DC-6 POWER CONNECTION  
N.T.S.

FINAL ANTENNA AND TRANSMISSION CABLE REQUIREMENTS							
SECTOR	TECHNOLOGY	ANTENNA		SIZE	AZIMUTH	TRANSMISSION LINES (LENGTH FT. +/-)	
		MFR./MODEL #				JUMPER LENGTH	DC CABLE (AWG #/B)
SECTOR "A"	A1	TBD	CCI HPA-45R-BUU-H4-K	4'	10°	<10'	+/- 120'
	A2	TBD	CCI HPA-45R-BUU-H4-K	4'	10°	<10'	+/- 120'
	A3	TBD	CCI HPA-45R-BUU-H4-K	4'	10°	<10'	+/- 120'
	A4						
SECTOR "B"	B1	TBD	CCI HPA-45R-BUU-H4-K	4'	180°	<10'	+/- 120'
	B2	TBD	CCI HPA-45R-BUU-H4-K	4'	180°	<10'	+/- 120'
	B3	TBD	CCI HPA-45R-BUU-H4-K	4'	180°	<10'	+/- 120'
	B4						
SECTOR "C"	C1	TBD	CCI HPA-45R-BUU-H4-K	4'	90°	<10'	+/- 60'
	C2	TBD	CCI HPA-45R-BUU-H4-K	4'	90°	<10'	+/- 60'
	C3	TBD	CCI HPA-45R-BUU-H4-K	4'	90°	<10'	+/- 60'
	C4						
SECTOR "D"	D1	TBD	CCI HPA-45R-BUU-H4-K	4'	275°	<10'	+/- 120'
	D2	TBD	CCI HPA-45R-BUU-H4-K	4'	275°	<10'	+/- 120'
	D3	TBD	CCI HPA-45R-BUU-H4-K	4'	275°	<10'	+/- 120'
	D4						

REMOTE RADIO UNIT (RRU'S)							
SECTOR		RRU	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	NO.
SECTOR "A"	A1	RRUS-11, RRUS-32 B2		±120'-0"	±10'-0"	1/2"	6
	A2	RRUS-11, RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	A3	RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	A4						
SECTOR "B"	B1	RRUS-11, RRUS-32 B2		±120'-0"	±10'-0"	1/2"	6
	B2	RRUS-11, RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	B3	RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	B4						
SECTOR "C"	C1	RRUS-11, RRUS-32 B2		±60'-0"	±10'-0"	1/2"	6
	C2	RRUS-11, RRUS-32 B66A		±60'-0"	±10'-0"	1/2"	6
	C3	RRUS-32 B66A		±60'-0"	±10'-0"	1/2"	6
	C4						
SECTOR "D"	D1	RRUS-11, RRUS-32 B2		±120'-0"	±10'-0"	1/2"	6
	D2	RRUS-11, RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	D3	RRUS-32 B66A		±120'-0"	±10'-0"	1/2"	6
	D4						

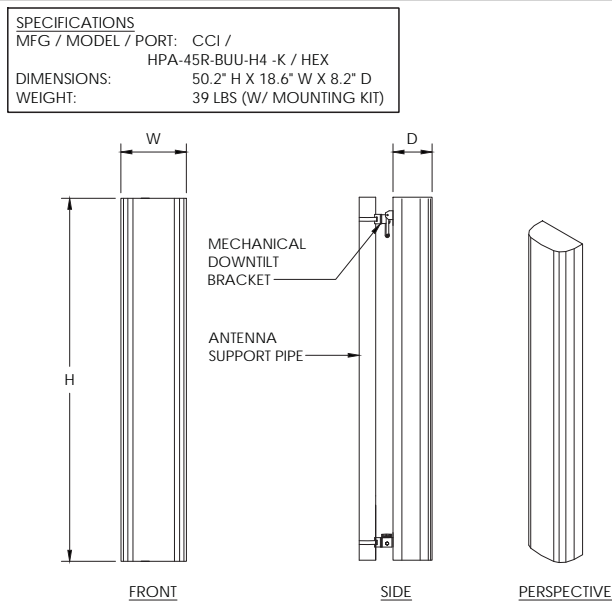
FEEDER TYPE	QTY.	LENGTH
FIBER	3	±120'-0"
DC	6	±120'-0"

FEEDER TYPE	QTY.	LENGTH
FIBER	1	±60'-0"
DC	2	±60'-0"

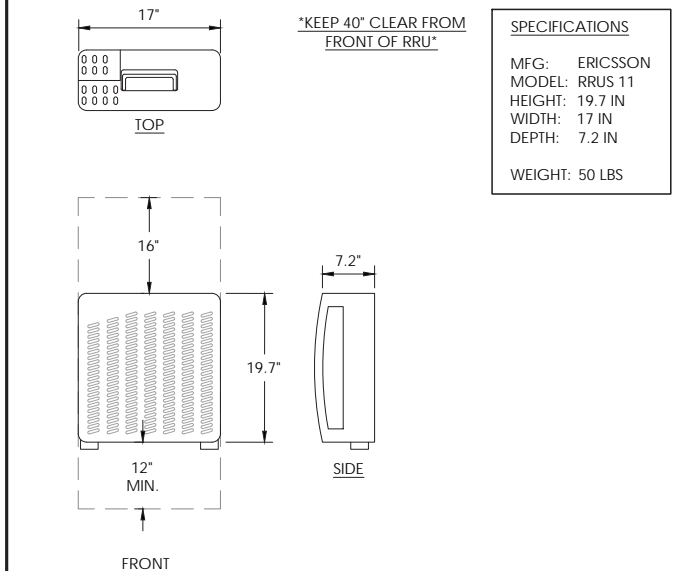
**NOTES TO CONTRACTOR:**

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON VISUAL INSPECTION DURING SITE-WALK. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.

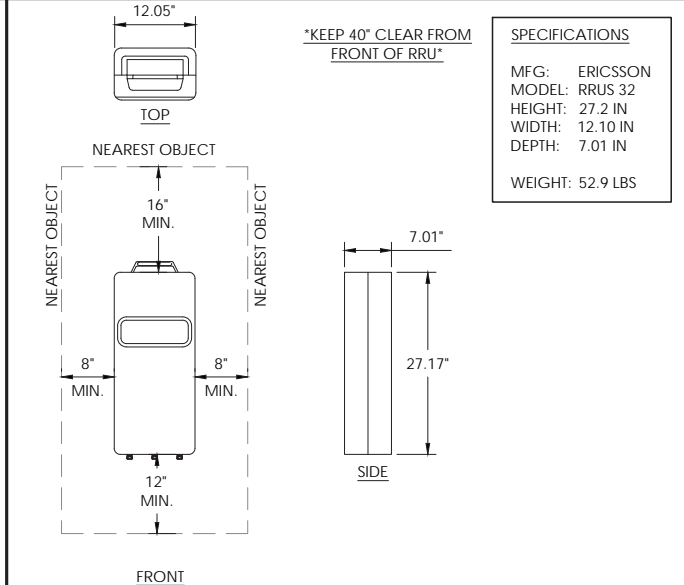
5 NOT USED  
N.T.S.



4 ANTENNA SPECIFICATIONS  
N.T.S.



2 RRUS 11 SPECIFICATION  
N.T.S.



1 RRUS 32 SPECIFICATIONS  
N.T.S.

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&amp;T Site ID:

**CNU5570**

AT&T SITE NO: CNU5570

PACE NO:

DRAWN BY: BH

CHECKED BY: SMR

9	01/04/18	PLANNING COMMENTS
8	12/04/17	CIVIL REDLINES
7	10/24/17	REVISED EQUIPMENT
6	08/30/17	PLANNING COMMENTS
5	06/01/17	CLIENT COMMENTS
4	04/06/17	PLANNING COMMENTS
3	12/21/16	CLIENT COMMENTS
2	10/04/16	CLIENT COMMENTS
1	09/30/16	CLIENT COMMENTS
0	08/23/16	100% ZDs
A	08/11/16	90% ZDs
REV	DATE	DESCRIPTION

Licensors:

It is a violation of law for any persons, unless they are acting under the direction of a licensed professional engineer, to alter this document

Issued For:

**CNU5570**  
COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

## DETAILS

Sheet Number:

D-1

7	PROPOSED RF SCHEDULE
	N.T.S.





### 3931 SERVICE DELIVERY SWITCH

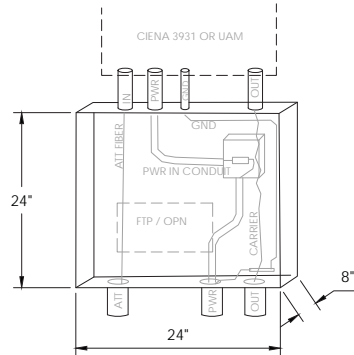
**MAC Address Table Capacity**  
32,000 MAC addresses

**Power Requirements**  
DC Input: -48, -24, +24 VDC (nominal)  
AC Input: 100V, 240V AC (nominal)  
AC Frequency: 50/60 Hz  
Maximum Power Input: 60 W

**Agency Approvals**  
**Safety:** UL/CSA 60950-1-07, IEC 60950-1:2005 (2nd edition); EN 60950-1:2006  
**Emissions:** FCC Part 15 (2009); EN 55022 (2006) +A1 (2006); AS/NZS CISPR 22 (2006); CISPR 22 (2005) + A1 (2005); ICES-003 Issue 4 (2004); EN 61000-3-2 (2006); EN 300 386 (v1.4.1, 2008); EN 300 132-2 (2007-10); EN 300 132-3 (2003-08)  
**Environmental:** WEEE 2002/96/EC  
RoHS 2002/95/EC  
**Immunity:** CISPR 24 (1997, +A1 2001 + A2 2002); EN 55024 (1998 + A1 2001 + A2 2003); EN 300 386 (v1.4.1, 2008); EN 61000-4-11 (2005); EN 61000-3-3 (2008); EN 300 132-2 (2007-10) ; EN 300 132-3 (2003-08)  
**Laser Safety:** CDRH Letter of Approval (US FDA Approval); FCC 21 CFR subpart (J) (Safety of Laser Products); IEC 60825-1:2007

**Environmental Characteristics**  
GR-63-CORE, Issue 3 – NEBS Level 3  
GR-1089 Issue 5 – NEBS Level 3  
GR-950 Issue 2 Optical Network Unit  
GR-3108 Issue 2 Network Equipment in the Outside Plant (OSP) Class 4  
ETSI 300 019 Class 1.2, 2.2, 4.1  
**Operating Temperature:**  
-40°F to +158°F (-40°C to +70°C)  
-40°F to +115°F + Solar Load  
-40°C to +46°C + Solar Load  
**Storage Temperature:**  
-40°F to +158°F (-40°C to +70°C)  
**Relative Humidity:** 5% to 100% (condensing)

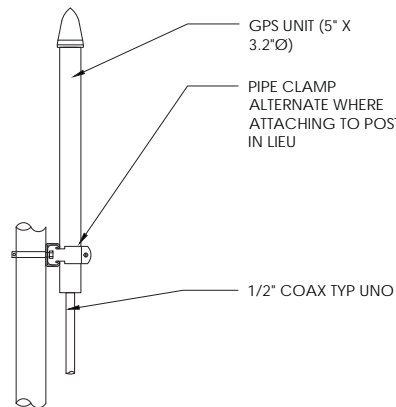
**Physical Characteristics**  
**Enclosure Dimensions:**  
16.8" (W) x 17.0" (H) x 7.0" (D)  
427mm (W) x 431mm (H) x 178mm (D)  
**Product weight:** 13.0 kg, 28.6 lbs



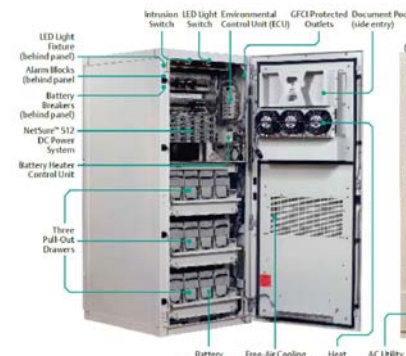
- NOTES:
- 24"X24"X8" BOX MOUNTED NEXT TO OR BELOW EQUIPMENT LOCATION.
  - 3/4 " BACKBOARD IN BOX
  - POWER LEADS MUST BE IN FLEX CONDUIT
  - 6"X6"X4" PLASTIC BOX MOUNTED ON RIGHT SIDE OF BACKBOARD
  - TERMINATION BLOACK TO BE PLACED IN 6X6 WITH FUSE
  - RUN GROUND WIRE ALONG OUTSIDE EDGE ON RIGHT SIDE OF BOX. MOVE GROUNDING BUSS TO RIGHT SIDE IF NECESSARY.
  - STUB OUT FLEX CONDUIT FROM TOPOF BOX TO MATCH 3931 CONDUIT POORTS.STUBS SHOULD BE 10 TO 12 INCHES IN LENGTH.
  - CARRIER WILL TERMINATE P[OWER ON ONE SIDE OF TERMINATION BLOCK. AT&T WILL TERMINATE ON THEIR SIDE, AND POP IN FUSE
  - FUSE SHOULD BE LEFT IN BOX PRIOR TO TURN UP

7 CIENA CABINET AND HOFFMAN BOX SPECIFICATION  
N.T.S.

NOTES:  
THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL REPORT



6 GPS MOUNT DETAIL  
N.T.S.



**LED Light Fixture**  
**Alarm Blocks** (behind panel)  
**Battery Breakers** (behind panel)  
**NetSure™ S12 DC Power System**  
**Battery Heater Control Unit**

**Intrusion Switch**  
**LED Light**  
**Environmental Control Unit (ECU)**  
**GFCI Protected Outlets**  
**Document Pocket** (side entry)  
**Intrusion Switch**  
**Lifting Eye Bolts**  
**Rear Access Panel** (Panel Removal)  
**Ventilation Fan**  
**AC Junction Box**  
**Rear Access Panel** (Panel Shown)  
**Conduit Knockout**

**Battery Compartment**  
**Free-Air Cooling Ventilation**  
**Heat Exchanger** (behind panel)  
**AC Utility**  
**OSP Cables** (behind panel)  
**Earth Ground Connection Point**

**COLOR:** OFF-WHITE  
**CABINET DIMENSIONS:** 31.81" W X 39.02" D X 72.06" TALL  
**WITH MOUNTING PLINTH:**

**CONCRETE ANCHORAGE:** (4) 5/8"Ø HILTI HSL-3 CARBON STEEL HEAVY DUTY EXPANSION ANCHORS WITH 1-5/8" SQUARE WASHER, UNISTRUT PART #P1964, HDG  
• SPECIAL INSPECTION REQUIRED  
• ICC ES #ESR-1545  
• LARR # 25903

**STEEL ANCHORAGE:** (4) 5/8"Ø A307 THROUGH-BOLTS WITH 1-5/8" SQUARE WASHER, UNISTRUT PART #P1964, HDG

EMERSON NETSURE S12 DC POWER PLANT			
ITEM	WEIGHT/UNIT (LBS)	QTY	TOTAL WEIGHT (LBS)
EMPTY CABINET	752	1	752
Cabinet + Rectifiers & Converters only	778	1	778
Battery	119	0	0
Marathon M12V158FT Battery	133	12	1596
<b>TOTAL</b>			<b>2374 LBS</b>

3 EMERSON NETSURE DC POWER PLANT CABINET SPECIFICATIONS  
N.T.S.



FlexSure™

FLX16WS  
GR-487 Issue 3 Certified

- Highly Configurable and Modular**
- FlexSure architecture uses interchangeable components to support virtually any configuration
  - Expandable architecture allows cabinet additions and modifications as application requirements grow
  - Optional components may be added to the equipment bay including thermal management, battery base, AC power termination and splice end chamber, and DC power management

- Thermal Management Capabilities**
- Available with 39W/°C or 70W/°C Heat Exchanger (HEX)
  - Adjust thermal management as requirements change - replace the cabinet door in the field with no service interruption

- Unique Cabinet Mounting Options**
- Cabinet-on-cabinet vertical stacking maximizes available space
  - Pad, pole, wall, and H-frame mounting available
  - Plinth options allow for simple cable egress



2 PURCELL LTE CONDITIONED CABINET  
N.T.S.

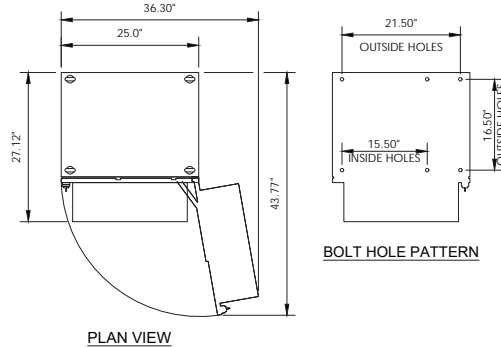
Configuration	Variable	Height	Width	Depth
Equipment Bay		30.00	25.00	20.00
Battery Plinth	Equip. Bay + Batt. Ped. (12"X13")	42.00/43.00		
	Equip. Bay + Batt. Ped. (12"X13") + Demarc. Box	48.00/49.00		
	Equip. Bay + Batt. Ped. (12"X13") + Demarc. Box + Eye Bolt	50.40/51.40		
Plinth	Equip. Bay + 4" Plinth	34.02		
	Equip. Bay + 4" Plinth + Demarc. Box	40.11		
	Equip. Bay + 4" Plinth + Demarc. Box + Eye Bolt	42.42		
Plinth	Equip. Bay + 14" Plinth	44.02		
	Equip. Bay + 14" Plinth + Demarc. Box	50.11		
	Equip. Bay + 14" Plinth + Demarc. Box + Eye Bolt	52.42		
Side Chamber			35.86	
Thermal Option	39W/°C Heat Exchanger			23.21
	70W/°C Heat Exchanger			27.12

DOUBLE STACKED PURCELL LTE CONDITIONED CABINETS

DIMENSION: 25" W X 30" TALL X 20" D

WEIGHT: 400 LBS. (FULLY LOADED)  
(each cabinet)

BOLTING: SEE ANCHORAGE DETAIL #4



4 NOT USED  
N.T.S.

1 ANCHORAGE DETAIL  
N.T.S.

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&T Site ID:

## CNU5570

AT&T SITE NO: CNU5570

PAGE NO:

DRAWN BY: BH

CHECKED BY: SMR

REV	DATE	DESCRIPTION
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2	10/04/16	CLIENT COMMENTS
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A	08/11/16	90% ZDs

Licensors:

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Issued For:

## CNU5570

COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

DETAILS

Sheet Number:

## D-2

9 NOT USED  
N.T.S.

7 MAINTANCE LIGHT DETAIL  
N.T.S.

2 GEN PLUG DETAIL  
N.T.S.

8 NOT USED  
N.T.S.

6 DC12 SURGE SUPPRESSOR  
N.T.S.

4 CABLE TRAY MOUNTING DETAIL  
N.T.S.

5 H-FRAME DETAIL  
N.T.S.

3 HORIZONTAL CABLE TRAY  
N.T.S.

1 WEATHER PROOFING KIT USE GUIDELINES  
N.T.S.

PREPARED FOR



5001 EXECUTIVE PARKWAY, 4W550H  
SAN RAMON, CALIFORNIA 94583

Vendor:



AZ - CA - CO - ID - NM - NV - TX - UT

2030 MAIN STREET, SUITE 200  
IRVINE, CALIFORNIA 94583

AT&T Site ID:

CNU5570

AT&T SITE NO: CNU5570

PACE NO:

DRAWN BY: BH

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REV	DATE	DESCRIPTION
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Issued For:

CNU5570  
COTTON BASICS

4093 24TH STREET  
SAN FRANCISCO, CA 94114

Sheet Title:

DETAILS

Sheet Number:

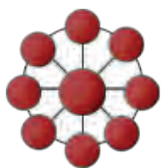
D-2





EXISTING

PROPOSED: Install (12) antennas inside FRP penthouses and faux vent stealthing



**Cortel**  
Photosims

View 1 of 3



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
Rev 1 - 8/25/16





EXISTING

PROPOSED: Install (12) antennas inside FRP penthouses and faux vent stealing





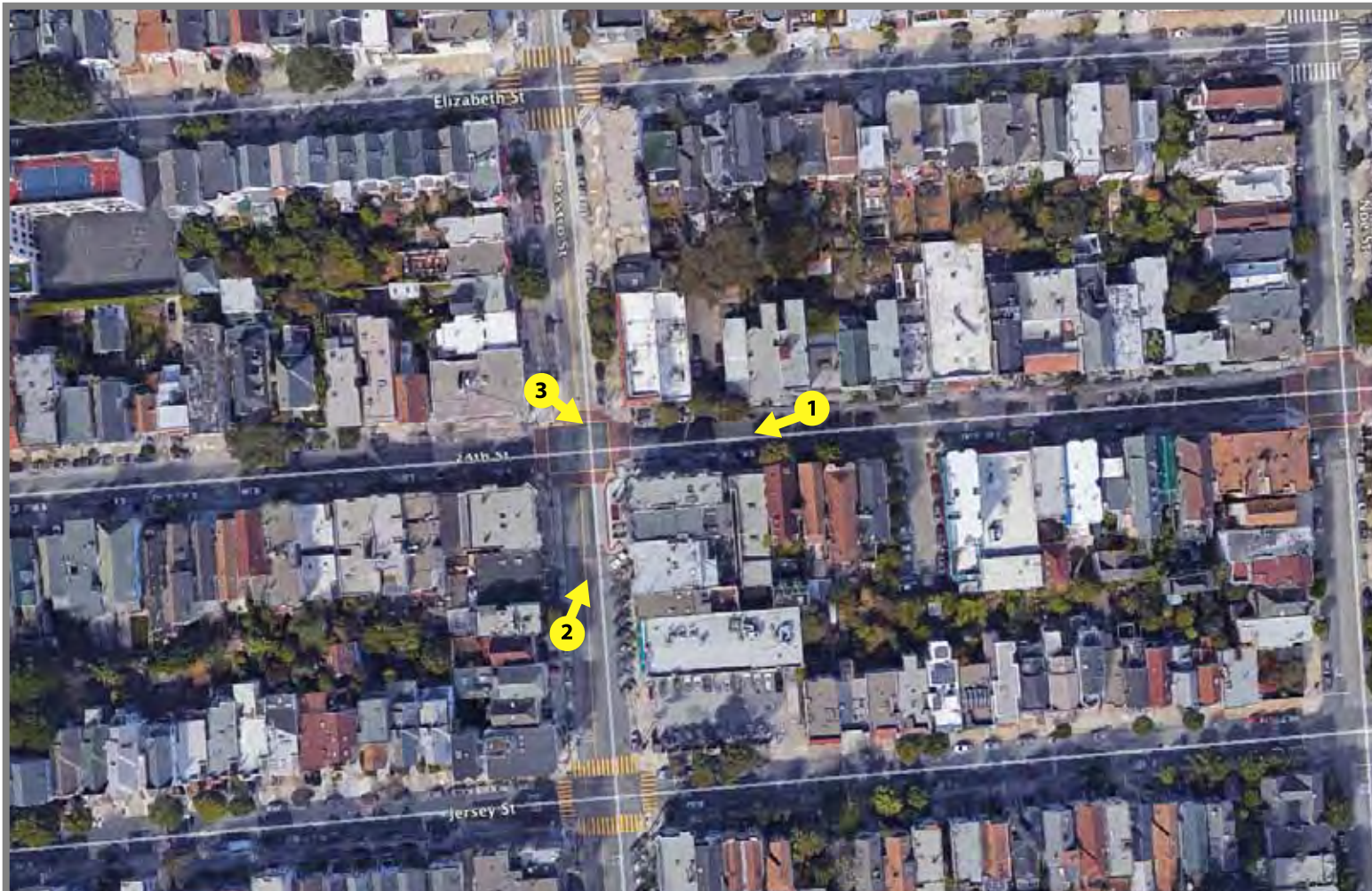


EXISTING

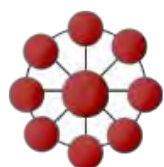
PROPOSED: Install (12) antennas inside FRP penthouses and faux vent stealthing







VIEWS



**Cortel**  
Photosims

[View Chart](#)



**CNU5570**  
4093 24th Street  
San Francisco CA 94114  
[Rev 1 - 8/25/16](#)

**AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California**

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

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a personal wireless telecommunications carrier, to evaluate the base station (Site No. CNU5570) proposed to be located at 4093 24th 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 <sup>2</sup>	1.00 mW/cm <sup>2</sup>
WiFi (and unlicensed uses)	2–6	5.00	1.00
BRS (Broadband Radio)	2,600 MHz	5.00	1.00
WCS (Wireless Communication)	2,300	5.00	1.00
AWS (Advanced Wireless)	2,100	5.00	1.00
PCS (Personal Communication)	1,950	5.00	1.00
Cellular	870	2.90	0.58
SMR (Specialized Mobile Radio)	855	2.85	0.57
700 MHz	700	2.40	0.48
[most restrictive frequency range]	30–300	1.00	0.20

**Checklist**

Reference has been made to information provided by AT&T, including zoning drawings by Cortel, Inc., dated August 23, 2016. It should be noted that the calculation results in this Statement include several “worst-case” assumptions and therefore are expected to overstate actual power density levels from the proposed operations.

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

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.*

AT&T proposes to install twelve antennas. This is consistent with the scope of work described in the drawings for transmitting elements.



**AT&T Mobility • Proposed Base Station (Site No. CNU5570)**  
**4093 24th Street • San Francisco, California**

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

AT&T proposes to install twelve CCI Model HPA-45R-BUU-H4-K directional panel antennas in groups of three above the roof of the three-story mixed-use building located at 4093 24th Street. The antennas would employ up to 8° downtilt and would be mounted at an effective height of about 43 feet above ground, 5 feet above the roof. Three groups would be mounted within a view screen enclosure above the roof near the west end of the building, oriented toward 10°T, 180°T, and 275°T, and one group would be mounted within individual cylindrical shrouds, configured to resemble vents, above the east end of the building, oriented toward 90°T. There are reported no other wireless telecommunications base stations at the site or nearby.

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.

There are no antennas on the building roof presently, so exposure levels near the proposed antenna locations are expected to be well below the FCC public limit. The maximum existing RF level for a person at ground near the site was measured\* to be 0.00048 mW/cm<sup>2</sup>, which is 0.24% of the most restrictive public limit.

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

The maximum effective radiated power proposed by AT&T in any direction would be 11,840 watts, representing simultaneous operation at 3,000 watts for WCS, 3,530 watts for AWS, 3,390 watts for PCS, 1,000 watts for cellular, and 920 watts for 700.

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

The maximum calculated level at the top-floor elevation of any nearby building is 38% of the public exposure limit; this occurs at the three-story mixed-use building located at 4104 24th Street, about 110 feet away.

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

For a person anywhere at ground, the maximum RF exposure level due to the proposed AT&T operation is calculated to be 0.026 mW/cm<sup>2</sup>, which is 4.3% of the applicable public exposure limit. Cumulative RF levels at ground level near the site are therefore estimated to be less than 4.6% of the applicable public limit.

---

\* May 8, 2013, using calibrated Wandel & Goltermann Type EMR-300 Radiation Meter with Type 8 Isotropic Electric Field Probe (Serial No. P-0036).



**AT&T Mobility • Proposed Base Station (Site No. CNU5570)**  
**4093 24th Street • San Francisco, California**

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 69 and 27 feet out from the antenna faces, respectively, and to much lesser distances above, below, and to the sides; this includes areas of the roof of the building but does not reach any publicly accessible areas.

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

It is reported that the existing roof access hatch is to be sealed shut and that an exterior access ladder, fitted with a locking cover, is to be installed at the east face of the building. It is recommended that the ladder cover be kept locked, so that the AT&T antennas are not accessible to unauthorized persons. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training, to include review of personal monitor use and lockout/tagout procedures, be provided to all authorized personnel who have access to the structure, including employees and contractors of AT&T and of the property owner. No access within 27 feet directly in front of the AT&T antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that “Worker Notification Areas” be marked with yellow paint stripes and that “Prohibited Access Areas” be marked with red paint stripes on the roof of the building, as shown in Figure 1, to identify areas within which exposure levels are calculated to exceed the FCC public and occupational limits, respectively. It is recommended that explanatory signs<sup>†</sup> be posted at the roof access ladder, at edges of the striped areas, on the enclosure and shrouds in front of the antennas, and on the door to the enclosure, readily visible from any angle of approach to persons who might need to work in those areas.

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.

---

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



**AT&T Mobility • Proposed Base Station (Site No. CNU5570)  
4093 24th Street • San Francisco, California**

**Conclusion**

Based on the information and analysis above, it is the undersigned's professional opinion that operation of the base station proposed by AT&T Mobility at 4093 24th Street in San Francisco, California, can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment. The highest calculated level in publicly accessible areas is much less than the prevailing standards allow for exposures of unlimited duration. This finding is consistent with measurements of actual exposure conditions taken at other operating base stations. Locking the roof access ladder is recommended to establish compliance with public exposure limits; training authorized personnel, marking roof areas, and posting explanatory signs are recommended to establish compliance with occupational exposure limits.

September 23, 2016



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

707/996-5200



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO



**San Francisco City and County**  
**Department of Public Health**  
**Environmental Health Section**

Edwin M. Lee, **Mayor**  
Barbara Garcia, **Director of Health**  
Stephanie K.J. Cushing, MSPH, CHMM, REHS  
**Director of Environmental Health**

**Review of Cellular Antenna Site Proposals**

**Project Sponsor :** AT&T Wireless **Planner:** Liz Watty  
**RF Engineer Consultant:** Hammett & Edison, Inc **Phone Number:** (707) 996-5200  
**Project Address/Location:** 4093 24TH St  
**Site ID:** 1829 **SiteNo.:** CNU5570 **Report Dated:** 9/23/2016

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 Siting Guidelines dated August 1996.

In order to facilitate quicker approval of this project, it is recommended that the project sponsor review this document before submitting the proposal to ensure that all requirements are included.

- X 1. The location, 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: 11840 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: 38 %  
Distance to this nearby building or structure: 110 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: 0.026 mW/cm<sup>2</sup> Maximum RF Exposure Percent: 4.3 %

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: 69

☒ Occupational Exclusion Area

Occupational Exclusion In Feet: 27

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 no antennas existing operated by AT&T Wireless installed on the roof top of the building at 4093 24TH St. Existing RF levels at ground level were around .24% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. AT&T Wireless proposes to install 12 new antennas. The antennas are mounted at a height of 43 feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.026 mW/sq cm., which is 4.3 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 69 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. Yellow striping and red striping to be provided on rooftop areas exceeding the FCC public exposure limit, and FCC occupational exposure limit, respectively. Workers should not have access to within 27 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: 9/26/2016

Signed: LK

**Larry Kessler**

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

AT&T Mobility Conditional Use Permit Application  
4093 24th Street, San Francisco

STATEMENT OF MICHAEL CANIGLIA

I manage AT&T's design with respect to the proposed wireless communications facility at 4093 24th Street, San Francisco (the "Property"). Based on my personal knowledge of the Property and with AT&T's wireless network, as well as my review of AT&T's records with respect to the Property and its wireless telecommunications facilities in the surrounding area, I have concluded that the work associated with this permit request is needed to close a significant service coverage gap in the area roughly bordered by Diamond Street, Elizabeth Street, Noe Street and 25th St.

The service coverage gap is caused by obsolete or inadequate (or, in the case of 4G LTE, non-existent) infrastructure along with increased use of wireless broadband services in the area. As explained further in Exhibit 1, AT&T's existing facilities cannot adequately serve its customers in the desired area of coverage, let alone address rapidly increasing data usage. Although there is reasonable 3G outdoor signal strength in the area, 3G coverage indoors may be weak and the quality of 3G service overall is unacceptable, particularly during high usage periods of the day. Moreover, 4G LTE service coverage has not yet been deployed in this area.

AT&T uses Signal-to-Noise information to identify the areas in its network where capacity restraints limit service. This information is developed from many sources including terrain and clutter databases, which simulate the environment, and propagation models that simulate signal propagation in the presence of terrain and clutter variation. Signal-to-Noise information measures the difference between the signal strength and the noise floor within a radio frequency channel, which, in turn, provides a measurement of service quality in an area. Although the signal level may be adequate by itself, the noise level fluctuates with usage due to the nature of the 3G technology and at certain levels of usage the noise level rises to a point where the signal-to-noise ratio is not adequate to maintain a satisfactory level of service. In other words, while the signal itself fluctuates as a function of distance of the user from the base station, the noise level fluctuates with the level of usage on the network on all mobiles and base stations in the vicinity. Signal-to-Noise information identifies where the radio frequency channel is usable; as noise increases during high usage periods, the range of the radio frequency channel declines causing the service coverage area for the cell to contract.

Exhibit 2 to this Statement is a map of existing service coverage (without the proposed installation at the Property) in the area at issue. It includes service coverage provided by existing AT&T sites. The green shaded areas depict areas within a Signal-to-Noise range that provide acceptable service coverage even during high demand periods. Thus, based upon current usage, customers are able to initiate and complete voice or data calls either outdoors or most indoor areas at any time of the day, independent of the number of users on the network. The yellow shaded cross-hatched areas depict areas within a Signal-to-Noise range that results in a service coverage gap during high demand periods. In this area, severe service interruptions occur during periods of high usage, but reliable and uninterrupted service may be available during low demand periods. The pink shading depicts areas within a Signal-to-Noise range in which a customer might have difficulty receiving a consistently acceptable level of service at any time, day or night, not just during high demand periods. The quality of service experienced by any individual customer can differ greatly depending on whether that customer is indoors, outdoors, stationary, or in transit. Any area in the pink or yellow cross-hatched category is considered inadequate service coverage and constitutes a service coverage gap.

Exhibit 3 to this Statement depicts the current actual voice and data traffic in the immediate area. As you can see from the exhibit, the traffic fluctuates at different times of the day. In actuality, the service coverage footprint is constantly changing; wireless engineers call it “cell breathing” and during high usage periods, as depicted in the chart, the service coverage gap increases substantially. The time periods in which the existing surrounding cell sites experience highest usage conditions (as depicted in the yellow shaded cross-hatched area in Exhibit 2) are significant. Based upon my review of the maps, the Signal-to-Noise information, and the actual voice and data traffic in this area, it is my opinion that the service coverage gap shown in Exhibit 2 is significant.

Exhibit 4 to this Statement is a map that predicts service coverage based on Signal-to-Noise information in the vicinity of the Property if antennas are placed as proposed in the application. As shown by this map, placement of the equipment at the Property closes the significant 3G service coverage gap.

In addition to these 3G wireless service gap issues, AT&T is in the process of deploying its 4G LTE service in San Francisco with the goal of providing the most advanced personal wireless experience available to residents of the City. 4G LTE is capable of delivering speeds up to 10 times faster than industry-average 3G speeds. LTE technology also offers lower latency, or the processing time it takes to move data through a network, such as how long it takes to start downloading a webpage or file once you’ve sent the request. Lower latency helps to improve the quality of personal wireless services. What’s more, LTE uses

spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience. This is particularly important in San Francisco because of the likely high penetration of the new 4G LTE iPad and other LTE devices.

Exhibit 5 is a map that depicts 4G LTE service in the area surrounding the Property, and it shows a significant 4G LTE service gap in the area. After the upgrades, Exhibit 6 shows that 4G LTE service is available both indoors and outdoors in the targeted service area. This is important in part because as existing customers migrate to 4G LTE, the LTE technology will provide the added benefit of reducing 3G data traffic, which currently contributes to the significant service coverage gap on the UMTS (3G) network during peak usage periods as shown in Exhibit 2.

In order to close the 4G LTE service coverage gap shown in Exhibit 5 and provide the benefits associated with 4G LTE personal wireless service, it is necessary to include 4G LTE-specific antennas to the proposed site. Exhibit 6 shows that the work subject to this application closes the gap.

I have a Master's degree in Business Administration, a Bachelor's degree in Electrical Engineering and an Associate's degree in Electronic Communication Technology. I have worked as an engineering expert in the Wireless Communications Industry for over 20 years.

Michael Caniglia

A handwritten signature in black ink, appearing to read "m. Caniglia", written in a cursive style.

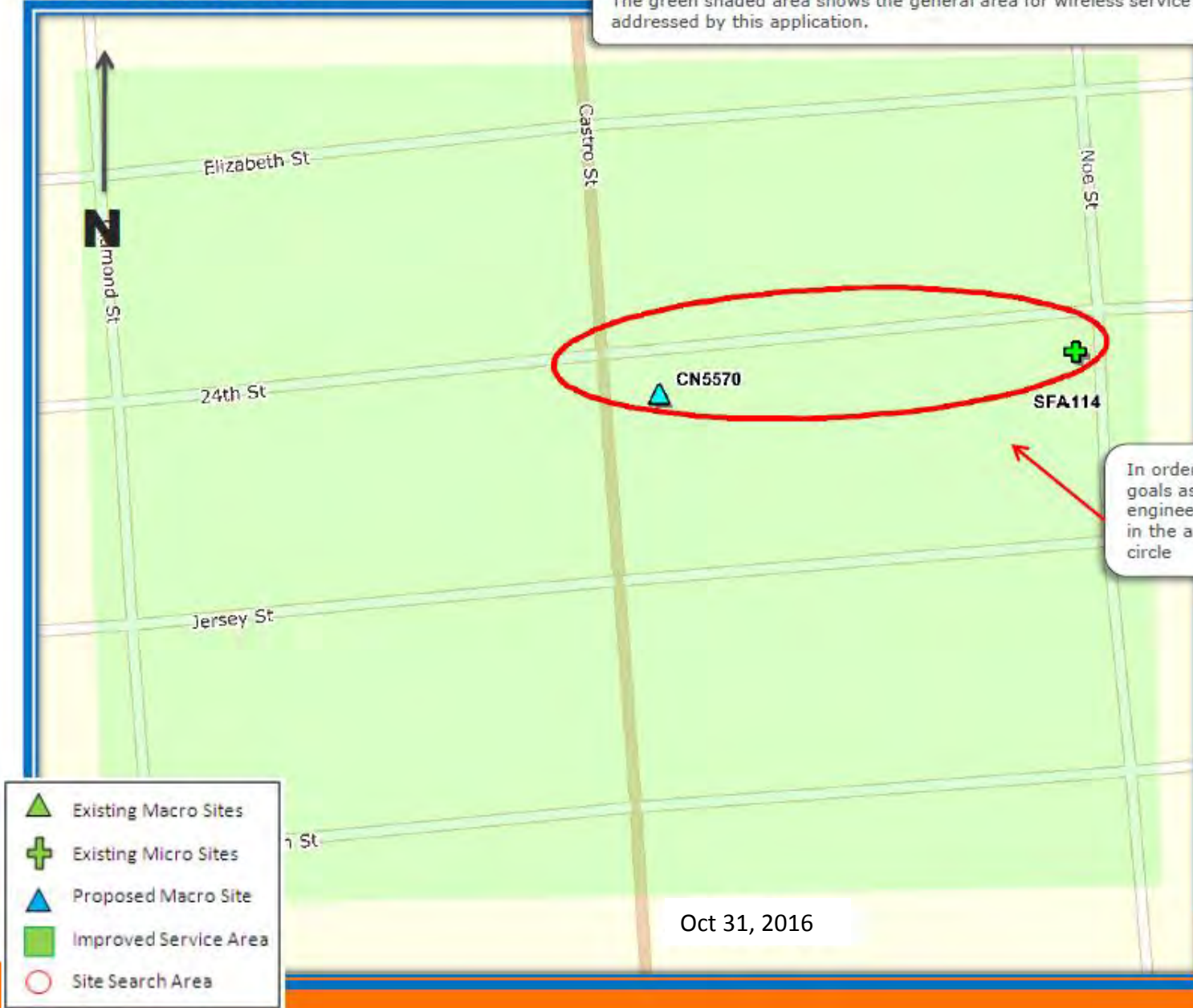
10 November 2016



# Service Improvement Objective (CN5570)

4093 24th Street

The green shaded area shows the general area for wireless service improvements addressed by this application.



In order to achieve the service goals as defined, at&t network engineers considered site locations in the area defined by the red circle

Oct 31, 2016



## Exhibit 2 - Proposed Site at 4093 24<sup>th</sup> (CN5570)

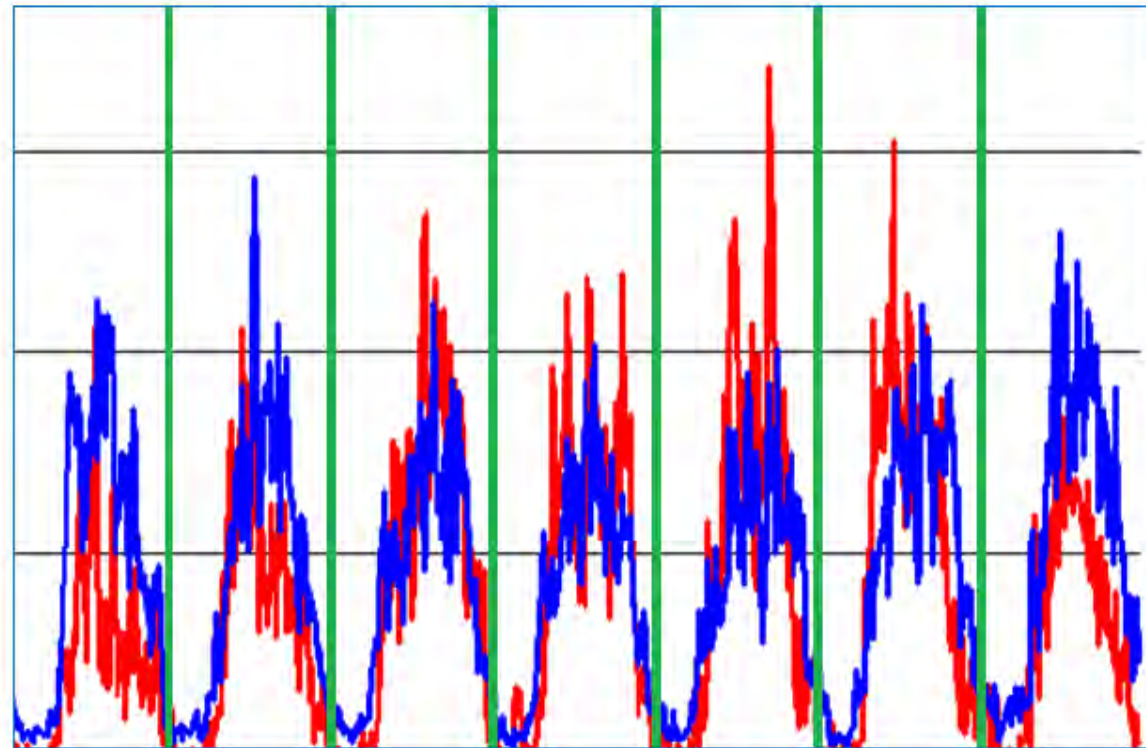
Service Area BEFORE site is constructed





## Exhibit 3 - Current 7-Day Traffic Profile for the Location of CN5570

— Data Traffic  
— Voice Traffic

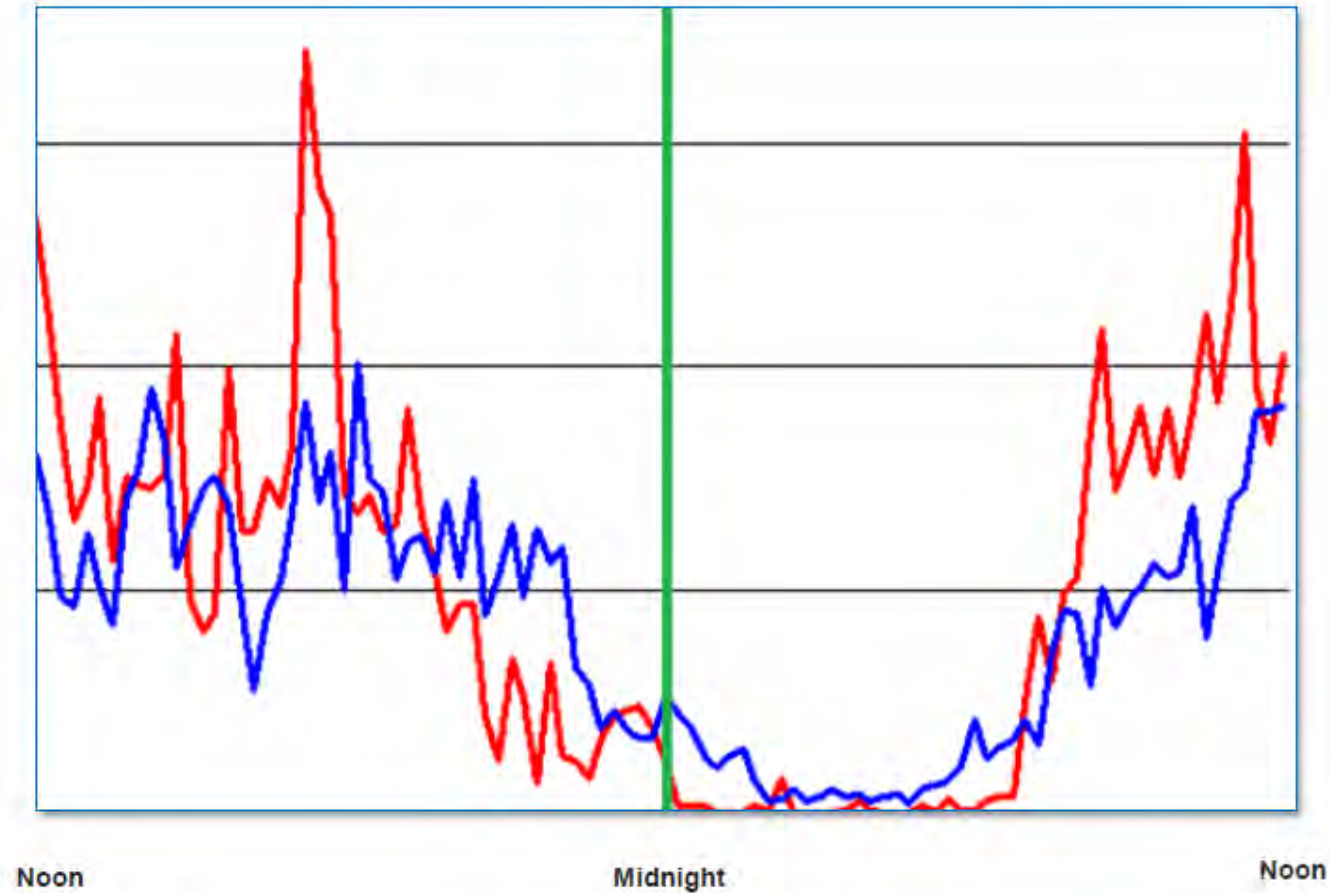


Saturday

Friday

## Exhibit 3 - Current 24-Hour Traffic Profile for the Location of CN5570

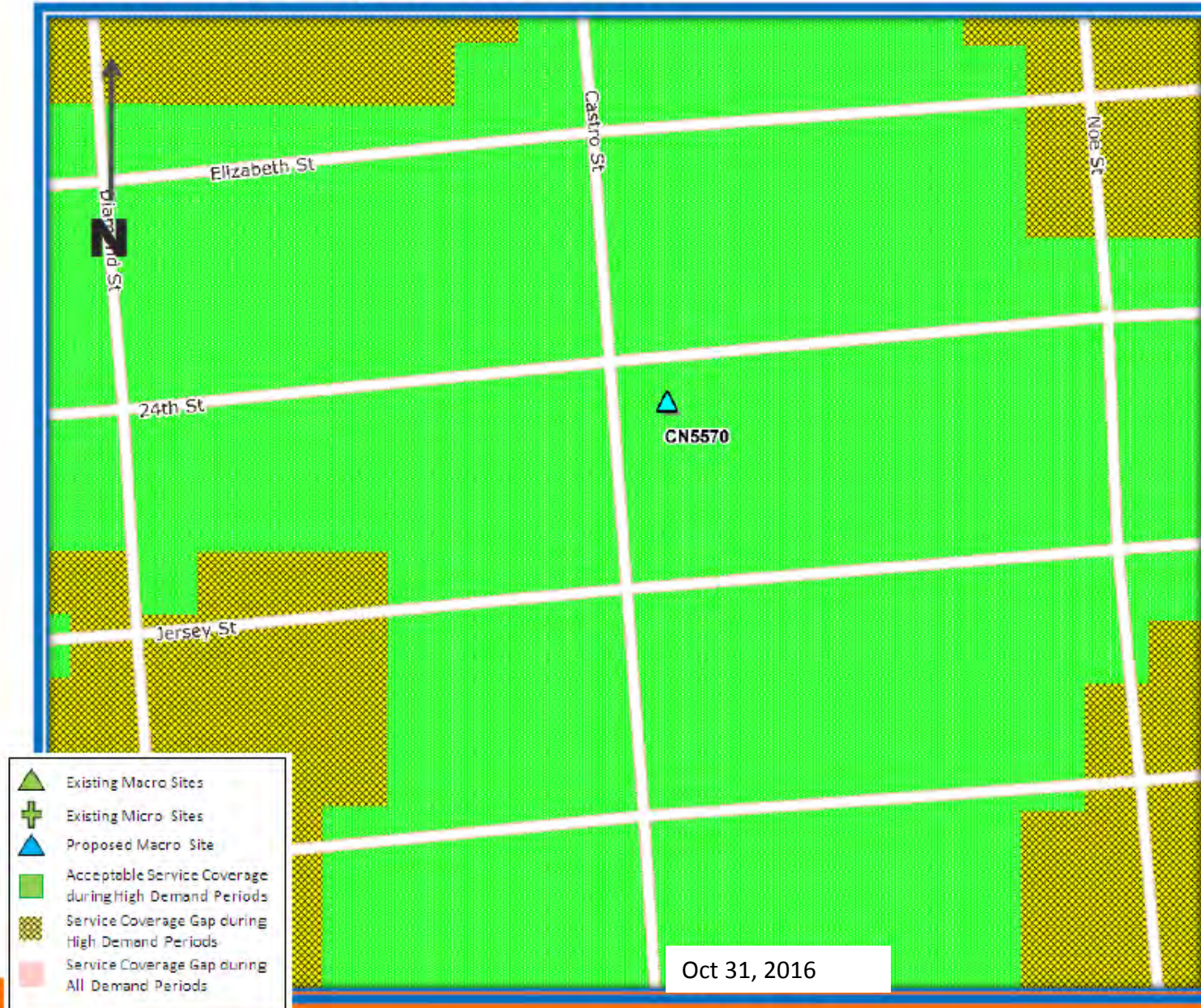
— Data Traffic  
— Voice Traffic





## Exhibit 4 - Proposed Site at 4093 24th(CN5570)

Service Area AFTER site is constructed





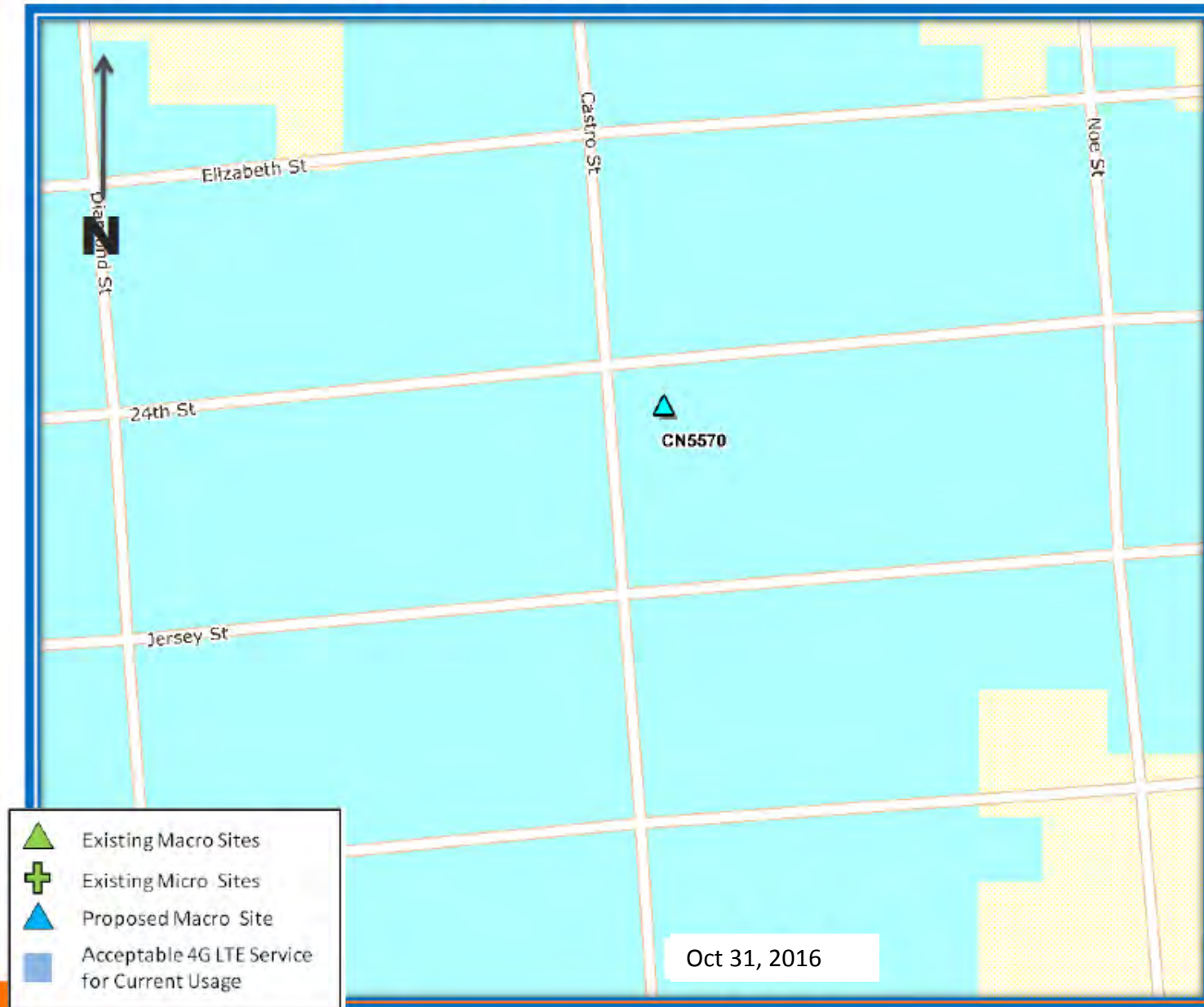
## Exhibit 5 - Proposed Site at 4093 24th(CN5570)

4G LTE Service Area BEFORE site is constructed



## Exhibit 6 - Proposed Site at 4093 24th(CN5570)

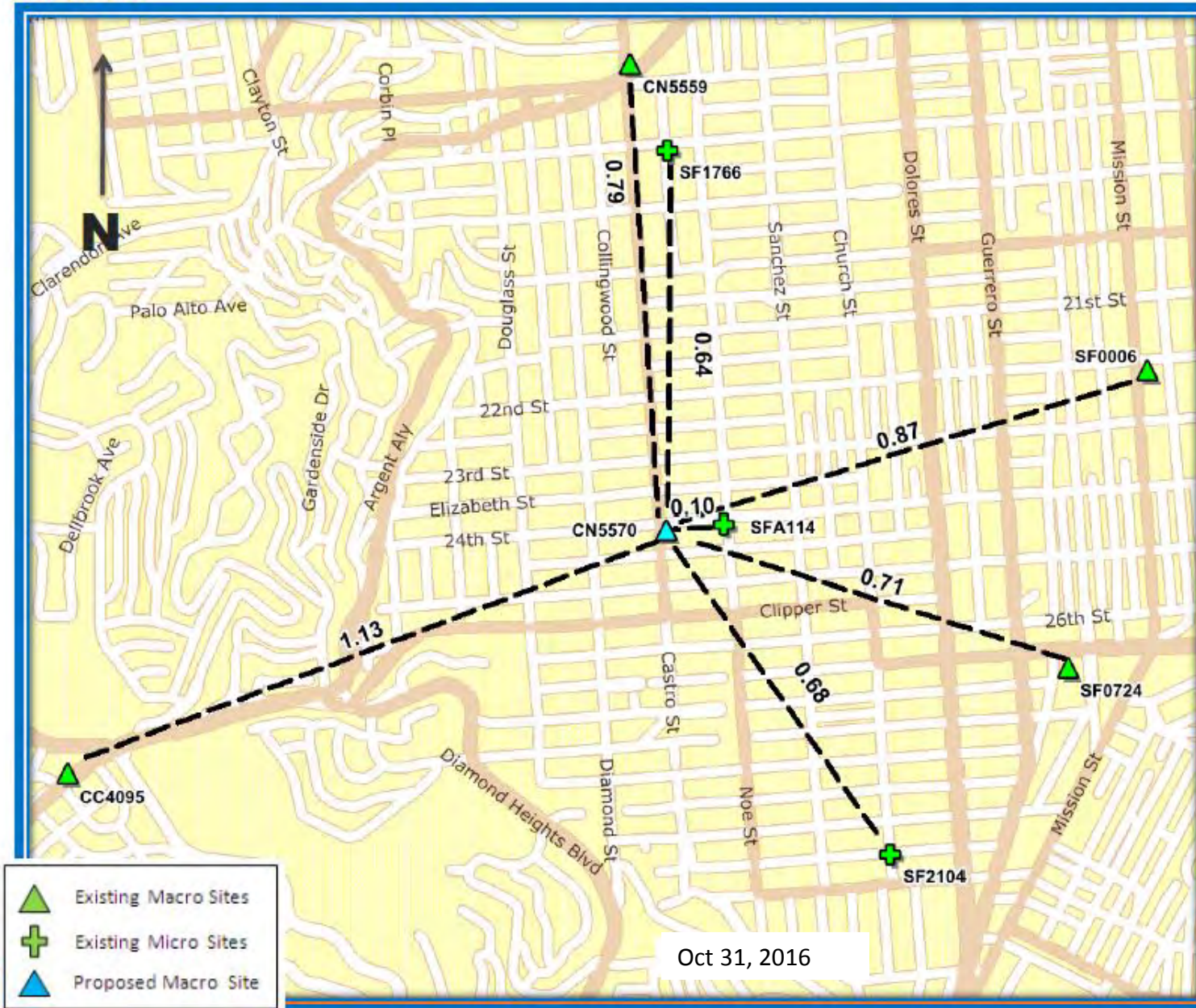
4G LTE Service Area AFTER site is constructed





# Existing Surrounding Sites at 4093 24th

CN5570







**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
BROADCAST & WIRELESS

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

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

DANE E. ERICKSEN, P.E.  
CONSULTANT

**BY E-MAIL MISAKO.HILL@CORTEL-LLC.COM**

November 14, 2016

Ms. Misako Hill  
Senior Project Manager  
Cortel, LLC  
14621 Arroyo Hondo  
San Diego, California 92127-3641

Dear Misako:

As requested, we have conducted the review required by the City of San Francisco of the coverage maps that AT&T Mobility will submit as part of its application package for its base station proposed to be located at 4093 24th Street (Site No. CN5570). This is to fulfill the submittal requirements for Planning Department review.

**Executive Summary**

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

AT&T proposes to install twelve CCI Model HPA-45R-BUU-H4-K directional panel antennas in groups of three above the roof of the three-story mixed-use building located at 4093 24th Street. The antennas would employ up to 8° downtilt and would be mounted at an effective height of about 43 feet above ground, 5 feet above the roof. Three groups would be mounted within a view screen enclosure above the roof near the west end of the building, oriented toward 10°T, 180°T, and 275°T, and one group would be mounted within individual cylindrical shrouds, configured to resemble vents, above the east end of the building, oriented toward 90°T. The maximum effective radiated power proposed by AT&T in any direction would be 11,840 watts, representing simultaneous operation at 3,000 watts for WCS, 3,530 watts for AWS, 3,390 watts for PCS, 1,000 watts for cellular, and 920 watts for 700 MHz service.

AT&T provided for review two coverage maps, dated October 31, 2016, attached for reference. The maps show AT&T's cellular UMTS (850 MHz) and 4G LTE (700 MHz) indoor coverage in the area before and after the site is operational. Both the before and after UMTS maps show three levels of coverage, which AT&T colors and defines as follows:

Green	Acceptable service coverage during high demand periods
Hashed Yellow	Service coverage gap during high demand periods
Pink	Service coverage gap during all demand periods

The 4G LTE maps do not differentiate between demand periods; rather they indicate, with the color blue, locations where 4G service is and would be acceptable.

Ms. Misako Hill, page 2  
November 14, 2016

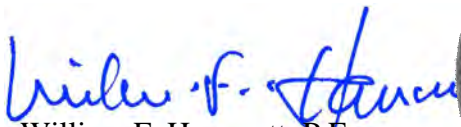
We undertook a two-step process in our review. As a first step, we obtained information from AT&T on the software and the service thresholds that were used to generate its coverage maps. This carrier uses commercially available software to produce the maps. The outdoor service thresholds that AT&T uses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

As a second step, we conducted our own drive test, using an Ascom TEMS Pocket network diagnostic tool with built-in GPS, to measure the actual AT&T UMTS and LTE 4G signal strength in the vicinity of the proposed site. Our fieldwork was conducted on November 8, 2016, between 10:00 AM and 11:00 AM, along a measurement route selected to cover all the streets within the map area that AT&T had indicated would receive improved service.

Based on the measurement data, we conclude that the AT&T UMTS and 4G LTE coverage maps showing the service area without the proposed installation include areas of relatively weak signal levels in the carrier's present indoor coverage. The maps submitted to show the after coverage with the proposed base station in operation were reportedly prepared on the same basis as the maps of the existing conditions and so are expected to accurately illustrate the improvements in coverage.

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

Sincerely yours,



William F. Hammett, P.E.



bb

Enclosures

cc: Mr. Michael Caniglia (w/encls) - BY E-MAIL MC0763@ATT.COM

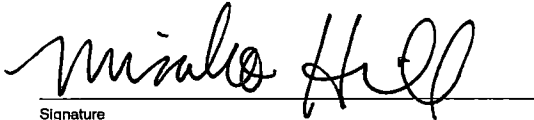
## Affidavit of Conducting a Pre-Application Meeting, Sign-in Sheet and Issues/Responses submittal

I, Misako Hill, do hereby declare as follows:

1. I have conducted a Pre-Application Meeting for the proposed new construction, alteration or other activity prior to submitting any entitlement (Building Permit, Variance, Conditional Use, etc.) in accordance with Planning Commission Pre-Application Policy.
2. The meeting was conducted at Noe Valley Branch Library/451 Jersey Street (location/address) on November 14 (date) from 6:00pm - 7:00pm (time).
3. I have included the mailing list, meeting invitation and postmarked letter, sign-in sheet, issue/response summary, and reduced plans with the entitlement Application. I understand that I am responsible for the accuracy of this information and that erroneous information may lead to suspension or revocation of the permit.
4. I have prepared these materials in good faith and to the best of my ability.

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

EXECUTED ON THIS DAY, November 15, 2016 IN SAN FRANCISCO.



Signature

Misako Hill

Name (type or print)

Agent of AT&T Mobility

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

(If Agent, give business name & profession)

4093 24th Street

Project Address

## Misako Hill

---

**From:** Luis Cuadra <LCuadra@bergdavis.com>  
**Sent:** Tuesday, November 15, 2016 5:51 PM  
**To:** Misako Hill  
**Cc:** BLACKSTONE, CAMMY  
**Subject:** CNU5570 - 4093 24th Street Wireless Community Meeting Recap  
**Attachments:** CNU5570 Sign in sheet.pdf

AT&T representatives held a community meeting on Monday, November 14, 2016 at the Noe Valley Branch Library, 451 Jersey Street, San Francisco, CA. The purpose of the meeting was to notify residents of AT&T's plans to install a new Macro Wireless Facility at 4093 24th Street.

Representing AT&T were the following:

- Cammy Blackstone – AT&T External Affairs
- Misako Hill – Cortel, Inc.
- Raj Mather – Hammett & Edison
- Luis Cuadra – BergDavis Public Affairs

Four community members attended the meeting. Misako Hill provided an overview of the proposal and the conditional use approval process. There was a general discussion concerning EMF-related health concerns. Raj Mather reviewed the safety standards and satisfactorily answered all questions.

Below is a recap of the community members' questions and the responses from the project team:

Question: Why do you need a conditional use (CU)?

Answer: The CU is a condition of the planning code.

Question: What purpose will the antennas provide?

Answer: The antennas will address a gap in service coverage.

Question: Will the antennas affect landlines?

Answer: No.

Question: Can the existing micro site be updated to accommodate the proposed wireless facility?

Answer: No. The existing structure cannot accommodate the 12 antennas and equipment.

Question: Will AT&T offer any new services as a result of the new wireless facility?

Answer: No. The proposed wireless facility is intended to provide increased coverage for 3G and 4G phones.

Question: Are upgrades and new wireless facilities occurring throughout San Francisco?

Answer: Yes. The demand continues to increase so we need to make sure we meet that demand.

Question: Do your wireless facilities have emergency back-up.

Answer: Yes. All of our sites have an 8-hour back up.

Question: Are there any chances of the back-up batteries causing a fire?

Answer: All of our equipment is inspected by the SFFD to ensure that it meets code.

Question: Has AT&T received complaints about service in this area.

Answer: New wireless facilities are costly and we only make the investment in the upgrades when there is a demand.



Attached is the sign in sheet.

Luis Cuadra

BergDavis Public Affairs

T - 415-788-1000 ext. 206

F - 415-788-0123

**BERGDAVIS** | PUBLIC  
AFFAIRS

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