



SAN FRANCISCO PLANNING DEPARTMENT

Executive Summary Conditional Use Authorization

HEARING DATE: DECEMBER 16, 2010

Date: December 9, 2010
Case No.: 2008.0477C
Project Address: 1740 Sloat Boulevard
Current Zoning: RH-1 (House, One-Family) District
40-X Height and Bulk District
Block/Lot: 2522/010
Project Sponsor: Amy Million for AT&T
855 Folsom Street, Suite 106
San Francisco, CA 94107
Staff Contact: Adrian C. Putra – (415) 575-9079
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PROJECT DESCRIPTION

The project is to establish a new Wireless Telecommunication Services (WTS) facility consisting of seven panel antennas and operated by AT&T. Five of the panel antennas measure approximately 73.4" long by 7" wide by 11.9" deep. Two of the antennas measure approximately 52" long by 22.9" wide by 11" deep. The antennas would be mounted and concealed within the existing church steeple at a maximum height of approximately 45'-0" above grade. The proposed WTS facility's five related equipment cabinets would be placed within a 8'-6" by 25'-0" fenced equipment area that is located on the ground along the east side of the building not visible from the public right-of-way.

SITE DESCRIPTION AND PRESENT USE

The project site is a 13,486 square-foot lot that is located at the northeast corner of Sloat Boulevard and 35th Avenue and contains the First United Presbyterian Church. The site contains WTS facilities operated by Sprint-Nextel, and T-Mobile where their associated panel antennas are all located and camouflaged within an existing 74'-0" tall church steeple.

SURROUNDING PROPERTIES & NEIGHBORHOOD

The Project Site is located within an RH-1 (House, One-Family) Zoning District. Typically, these districts are occupied almost entirely by single-family houses on lots 25'-0" in width, without side yards. Floor sizes and building styles vary, but tend to be uniform within tracts developed in distinct time periods. Though built on separate lots, the structures have the appearance of small-scale row housing, rarely exceeding 35'-0" in height. Front setbacks are common, and ground level open space is generous. In most cases the single-family character of these districts has been maintained for a considerable time. Land

uses in the immediate project vicinity are primarily residential, with the exception of the Lakeshore Commercial Shopping Center located directly southeast from the Project Site on the opposite side of Sloat Boulevard.

ENVIRONMENTAL REVIEW STATUS

The project is exempt from the California Environmental Quality Act ("CEQA") as a Class 3 categorical exemption. The 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, as the custodian of records, at 1650 Mission Street, San Francisco.

HEARING NOTIFICATION REQUIREMENTS

TYPE	REQUIRED PERIOD	REQUIRED NOTICE DATE	ACTUAL NOTICE DATE	ACTUAL PERIOD
Classified News Ad	20 days	November 27, 2010	November 24, 2010	23 days
Posted Notice	20 days	November 27, 2010	November 24, 2010	23 days
Mailed Notice	20 days	November 27, 2010	November 24, 2010	23 days

PUBLIC COMMENT

A Community Outreach Meeting was conducted for the proposed project. The meeting was held at 7:00 PM on Monday, June 16, 2010, at First United Presbyterian Church at 1740 Sloat Boulevard, San Francisco, CA 94132. According to the Project Sponsor no neighbors attended the meeting. Prior to the community meeting two members of the community contacted the Project Sponsor with general questions about the proposal, and were not opposed to the project. Additionally, staff has received one letter from a neighbor also asking general questions about the proposal.

ISSUES AND OTHER CONSIDERATIONS

- Health and safety aspects of all wireless projects are reviewed under the Department of Public Health and the Department of Building Inspections.
- The Department is not aware of any opposition to the project.

REQUIRED COMMISSION ACTION

In order for the project to proceed, the Commission may grant the Conditional Use authorization pursuant to Planning Code Sections 209.6(b) and 303 to allow the installation of wireless facility.

BASIS FOR RECOMMENDATION

The Department believes this project is necessary and/or desirable under Section 303 of the Planning Code for the following reasons:

- The project meets the criteria established under the 1996 Wireless Telecommunications Services Facilities Siting Guidelines, and it is consistent with the objectives and policies of the Commerce and Industry Element, the Community Safety Element, the Residence Element, and the Urban Design Element of the General Plan.
- The proposed antennas will be compatible with the neighborhood because they have been designed to be visually concealed from view by being located within an existing church steeple.
- The Project Site is a Location Preference Number 1, as it is a preferred location as a publicly used structure (place of worship).
- The project is desirable as it will improve the AT&T mobile telephone network coverage and signal strength in the immediate area.

RECOMMENDATION: Approval with Conditions
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Exhibit Checklist

- | | |
|---|--|
| <input checked="" type="checkbox"/> Executive Summary | <input checked="" type="checkbox"/> Project sponsor submittal |
| <input checked="" type="checkbox"/> Draft Motion | Drawings: <u>Existing Conditions</u> |
| <input type="checkbox"/> Environmental Determination | <input checked="" type="checkbox"/> Check for legibility |
| <input checked="" type="checkbox"/> Zoning District Map | Drawings: <u>Proposed Project</u> |
| <input type="checkbox"/> Height & Bulk Map | <input checked="" type="checkbox"/> Check for legibility |
| <input checked="" type="checkbox"/> Parcel Map | <input type="checkbox"/> Public Correspondence |
| <input checked="" type="checkbox"/> Sanborn Map | <input checked="" type="checkbox"/> Coverage Maps |
| <input checked="" type="checkbox"/> Aerial Photo | <input checked="" type="checkbox"/> RF Report and DPH Evaluation |
| <input checked="" type="checkbox"/> Context Photos | <input checked="" type="checkbox"/> Notice of Community Outreach Meeting |
| <input checked="" type="checkbox"/> Site Photos | |

Exhibits above marked with an "X" are included in this packet

ACP
Planner's Initials

ACP



SAN FRANCISCO PLANNING DEPARTMENT

Subject to: (Select only if applicable)

- Inclusionary Housing (Sec. 315)
- Jobs Housing Linkage Program (Sec. 313)
- Downtown Park Fee (Sec. 139)
- First Source Hiring (Admin. Code)
- Child Care Requirement (Sec. 314)
- Other

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Planning Commission Motion

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ADOPTING FINDINGS RELATING TO THE APPROVAL OF A CONDITIONAL USE AUTHORIZATION UNDER PLANNING CODE SECTIONS 209.6(B) TO INSTALL A WIRELESS TELECOMMUNICATIONS SERVICES (WTS) FACILITY CONSISTING OF SEVEN PANEL ANTENNAS LOCATED WITHIN AN EXISTING CHURCH STEEPLE AS PART OF AT&T'S WIRELESS TELECOMMUNICATIONS NETWORK WITHIN A RH-1 (HOUSE, ONE-FAMILY) ZONING DISTRICT AND A 40-X HEIGHT AND BULK DISTRICT.

PREAMBLE

On April 25, 2008, Amy Million on the behalf of AT&T (hereinafter "project sponsor"), made an application (hereinafter "application"), for Conditional Use authorization on the property at **1740 Sloat Boulevard, Lot 010 in Assessor's Block 2522**, (hereinafter "project site") to install a wireless telecommunications services (WTS) facility consisting of six panel antennas located within an existing church steeple and related equipment on the ground as part of AT&T's wireless telecommunications network within a RH-1 (House, One-Family) Zoning District and a 40-X Height and Bulk District, in general conformity with plans filed with the Application and labeled "EXHIBIT B" (hereinafter "Project").

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

On December 16, 2010, the 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. 2008.0477C, 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 a 13,486 square-foot lot that is located at the northeast corner of Sloat Boulevard and 35th Avenue and contains the First United Presbyterian Church. The site contains WTS facilities operated by Sprint-Nextel, and T-Mobile where their associated panel antennas are all located and camouflaged within an existing 74'-0" tall church steeple.
3. **Surrounding Properties and Neighborhood.** The Project Site is located within an RH-1 (House, One-Family) Zoning District. Typically, these districts are occupied almost entirely by single-family houses on lots 25'-0" in width, without side yards. Floor sizes and building styles vary, but tend to be uniform within tracts developed in distinct time periods. Though built on separate lots, the structures have the appearance of small-scale row housing, rarely exceeding 35'-0" in height. Front setbacks are common, and ground level open space is generous. In most cases the single-family character of these districts has been maintained for a considerable time. Land uses in the immediate project vicinity are primarily residential, with the exception of the Lakeshore Commercial Shopping Center located directly southeast from the Project Site on the opposite side of Sloat Boulevard.
4. **Project Description.** The project is to establish a new Wireless Telecommunication Services (WTS) facility consisting of seven panel antennas and operated by AT&T. Five of the panel antennas measure approximately 73.4" long by 7" wide by 11.9" deep. Two of the antennas measure approximately 52" long by 22.9" wide by 11" deep. The antennas would be mounted and concealed within the existing church steeple at a maximum height of approximately 45'-0" above grade. The proposed WTS facility's five related equipment cabinets would be placed within a 8'-6" by 25'-0" fenced equipment area that is located on the ground along the east side of the building not visible from the public right-of-way.

5. **Past History and Actions.** The Planning Commission established guidelines for the installation of wireless telecommunications facilities in 1996 (“Guidelines”). 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 are 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, requiring community outreach, notification, and detailed information about the facilities to be installed.¹

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.

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, a submittal checklist and details about the facilities to be installed.

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

On January 9, 1997, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use pursuant to Planning Code Section 209.6(b) to allow the installation of a WTS facility consisting of three panel antennas inside an existing church steeple and a base transceiver station underground and adjacent to the existing church building as part of Sprint’s wireless telecommunications network.

On January 16, 1997, the Commission conducted a duly noticed public hearing at a regularly scheduled meeting on the application for a Conditional Use pursuant to Planning Code Section 209.6(b) to allow the installation of a WTS facility consisting of three panel antennas inside an existing church steeple and a base transceiver station on the lower roof of the existing church

¹ PC Resolution 16539, passed March 13, 2003.

building as part of the Pacific Bell Mobile Services wireless telecommunications network. This facility is now operated by T-Mobile.

6. **Location Preference.** The *WTS Facilities Siting Guidelines* identify different types of buildings for the siting of wireless telecommunications facilities. Under the *Guidelines*, the Project is a Location Preference Number 1, as it is a preferred location for a publicly used, church, structure.
7. **Radio Waves Range.** The Project Sponsor has stated that the proposed facilities operate at radio frequencies in the LTE (700 MHz) Band, Cellular (850 MHz) Band, AWS (2100 MHz) and the PCS (1800 MHz) Band. These frequencies are regulated by the Federal Communications Commission (FCC) and must comply with the FCC-adopted health and safety standards for electromagnetic radiation and radio frequency radiation.
8. **Radiofrequency (RF) Emissions:** The project sponsor retained Hammett & Edison, Inc., a radio engineering consulting firm, to prepare a report describing the expected RF emissions from the proposed facility. Pursuant to the *Guidelines*, the Department of Public Health reviewed the report and determined that the proposed facility complies with the standards set forth in the *Guidelines*.
9. **Department of Public Health Review and Approval.** The proposed project was referred to the Department of Public Health (DPH) for emissions exposure analysis. The existing RF levels at ground level were around 1% of the FCC public exposure limit. There were no observed other antennas within 100 feet of this site. The estimated ambient RF field from the proposed AT&T wireless transmitters at ground level is calculated to be 0.0016 mW/sq. cm., which is 2.3% of the FCC public exposure limit. The three-dimensional perimeter of RF levels equal to the public exposure limit extends 49 feet and does not reach any publicly accessible areas. Warning signs must be posted at the antennas and roof access points in English, Spanish, and Chinese. Workers should not have access within 16 feet of the front of the antennas while they are in operation.
10. **Maintenance Schedule.** According to the Project Sponsor, the proposed facility would operate as an unmanned facility. After construction AT&T's maintenance personnel will access the site approximately once a month for maintenance.
11. **Community Outreach.** A Community Outreach Meeting was conducted for the proposed project. The meeting was held at 7:00 PM on Monday, June 16, 2010, at First United Presbyterian Church at 1740 Sloat Boulevard, San Francisco, CA 94132. According to the Project Sponsor no neighbors attended the meeting. Prior to the community meeting two members of the community contacted the Project Sponsor with general questions about the proposal, and were not opposed to the project.
12. **Five-year plan:** AT&T submitted its latest five-year plan, as required, in October 2010.
13. **Public Comment.** To date the Department has not received any public comment regarding this application.

14. **Planning Code Compliance.** The Commission finds that the Project is consistent with the relevant provisions of the amendments to Planning Code in the following manner:

- A. **Use.** A WTS facility is considered a public utility under Planning Code Section 209.6(b), which requires Conditional Use authorization in the RH-1 District.
- B. **Height.** Per Planning Code Section 260(b)(2)(I), radio antennae for transmission, reception, or relay of radio, television or other electronic signals, where permitted as principal or conditional uses are exempt from height limits.

15. **Planning Code Section 303** establishes criteria for the Planning Commission to consider when reviewing applications for Conditional Use approval. On balance, the project does comply with said criteria in that:

- A. The proposed new uses and building, at the size and intensity contemplated and at the proposed location, will provide a development that is necessary or desirable, and compatible with, the neighborhood or the community.

- i *Desirable: San Francisco is a leader of the technological economy; it is important and desirable to the vitality of the city to have and maintain adequate telecommunications coverage and data capacity. This includes the installation and upgrading of systems to keep up with changing technology and increases in usage. It is desirable for the City to allow wireless facilities to be installed.*

The project will be generally desirable and compatible with the surrounding neighborhood because the project will not conflict with the existing uses of the property and will be of such size and nature to be compatible with the publicly-used nature of the vicinity, along with the commercial nature of the Lakeshore Commercial Shopping Center located directly southeast from the project site on the opposite side of Sloat Boulevard. The approval of this authorization has been found, first and foremost, to insure public safety, and insure that the placement of antennas and related support and protection features are so located, designed, and treated architecturally to minimize their visibility from public places, to avoid intrusion into public vistas, avoid disruption of the architectural design integrity of building and insure harmony with neighborhood character. The proposed project will also provide necessary facilities for emergency transmission and improved communication for the neighborhood, community and the region. The Project has been designed to be hidden from view and compatible with existing development in the neighborhood.

- ii *Necessary: In the case of wireless installations, there are 2 criteria that the Commission reviews: coverage and capacity.*

Coverage: San Francisco does have sufficient overall wireless coverage (note that this is separate from carrier service). It is necessary for San Francisco to have as much coverage as possible in terms of wireless facilities. Due to the topography and tall buildings in San Francisco, unique coverage issues arise because the hills and building break up coverage. Thus, telecommunication carriers often 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 be able to have proper data distribution. It is necessary for San Francisco, as a leader in technology, to have adequate capacity.

The project at 1740 Sloat Avenue is necessary in order to achieve sufficient street and in-building mobile phone coverage. According to the Project Sponsor, the proposed facility will improve wireless service for AT&T customers in the area bounded by 39th Avenue, Sunset Boulevard, Meadowbrook Drive, and Wawona Street.

- B. The proposed project will not be detrimental to the health, safety, convenience or general welfare of persons residing or working in the vicinity. There are no features of the project that could be detrimental to the health, safety or convenience of those residing or working the area, in that:
- i The nature of proposed site, including its size and shape, and the proposed size, shape and arrangement of structures;

The proposed 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. The Department has received information that the proposed wireless system must be operated so as not to interfere with radio or television reception in order to comply with the provisions of its license under the FCC.

The Department is developing a database of all such wireless communications facilities operating or proposed for operation in the City and County of San Francisco. All applicants are now required to submit information on the location and nature of all existing and approved wireless transmission facilities operated by the Project Sponsor. The goal of this effort is to foster public information as to the location of these facilities.

- ii The accessibility and traffic patterns for persons and vehicles, the type and volume of such traffic, and the adequacy of proposed off-street parking and loading;

No significant increase in traffic volume is anticipated with the establishment of the proposed WTS facility. According to the Project Sponsor AT&T representatives will only visit the site about once a month for maintenance work.

- iii The safeguards afforded to prevent noxious or offensive emissions such as noise, glare, dust and odor;

While some noise and dust may result from the installation of the antennas and transceiver equipment, once the proposed antennas are installed, impacts with regards to the above will likely be insignificant.

- iv Treatment given, as appropriate, to such aspects as landscaping, screening, open spaces, parking and loading areas, service areas, lighting and signs;

The subject site has ample landscaping and open space. The installation of antennas within an existing church steeple will not affect the existing landscaping.

- C. That the use as proposed will comply with the applicable provisions of the Planning Code and will not adversely affect the General Plan.

The Project complies with all relevant requirements and standards of the Planning Code and is consistent with objectives and policies of the General Plan as detailed below.

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

HOUSING ELEMENT

HOUSING DENSITY, DENSITY, DESIGN & QUALITY OF LIFE

OBJECTIVE 11:

IN INCREASING THE SUPPLY OF HOUSING, PURSUE PLACE MAKING AND NEIGHBORHOOD BUILDING PRINCIPLES AND PRACTICES TO MAINTAIN SAN FRANCISCO'S DESIRABLE URBAN FABRIC AND ENHANCE LIVABILITY IN ALL NEIGHBORHOODS.

POLICY 11.2:

Ensure housing is provided with adequate public improvements, services, and amenities.

The project will improve AT&T Wireless coverage in a residential, commercial and recreational area along primary transportation routes in San Francisco.

URBAN DESIGN

HUMAN NEEDS

OBJECTIVE 4:

IMPROVEMENT OF THE NEIGHBORHOOD ENVIRONMENT TO INCREASE PERSONAL SAFETY, COMFORT, PRIDE AND OPPORTUNITY.

POLICY 4.14:

Remove and obscure distracting and cluttering elements.

The Project adequately "stealths" the proposed antennas and related equipment, by installing the antennas within a church steeple, and locating equipment cabinets on the east side of the building and away from street view.

COMMERCE AND INDUSTRY ELEMENT

Objectives and Policies

OBJECTIVE 1:

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

Policy 1:

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

Policy 2:

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

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

OBJECTIVE 2:

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

Policy 1:

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

Policy 3:

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

The site is an integral part of a wireless communications network that will enhance the City's diverse economic base.

OBJECTIVE 4:

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

Policy 1:

Maintain and enhance a favorable business climate in the City.

Policy 2:

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

The project would benefit the City by enhancing the business climate through improved communication services for residents and workers.

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 mobile telecommunications.

COMMUNITY SAFETY ELEMENT

Objectives and Policies

OBJECTIVE 3:

ENSURE THE PROTECTION OF LIFE AND PROPERTY FROM THE EFFECTS OF FIRE OR NATURAL DISASTER THROUGH ADEQUATE EMERGENCY OPERATIONS PREPARATION.

Policy 1:

Maintain a local agency for the provision of emergency services to meet the needs of San Francisco.

Policy 2:

Develop and maintain viable, up-to-date in-house emergency operations plans, with necessary equipment, for operational capability of all emergency service agencies and departments.

Policy 3:

Maintain and expand agreements for emergency assistance from other jurisdictions to ensure adequate aid in time of need.

Policy 4:

Establish and maintain an adequate Emergency Operations Center.

Policy 5:

Maintain and expand the city's fire prevention and fire-fighting capability.

Policy 6:

Establish a system of emergency access routes for both emergency operations and evacuation.

In the event that traditional land line telephones are rendered inoperable during a natural disaster the project would enhance the ability of the City to protect both life and property from the effects of a fire or natural disaster by improving wireless communication services.

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

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

No neighborhood-serving retail use would be displaced and the wireless communications network will enhance personal communication services.

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

No residential uses would be displaced or altered in any way by the granting of this authorization.

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

The project would have no adverse impact on housing in the vicinity.

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

The Project will not adversely impact public transit or place a burden on the existing supply of parking in the neighborhood. According to the Project Sponsor, the proposed WTS facility will only require access by company representatives less than twice a month.

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

The Project would cause no displacement of industrial and service sector activity.

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

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

- G. That landmarks and historic buildings be preserved.

No landmarks or historic buildings would be affected by the project.

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

The Project will have no adverse impact on parks or open space, or their access to sunlight or vistas, since the WTS facility's panel antennas will be mounted within an existing church steeple.

18. 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.
19. The Commission hereby finds that approval of the Determination of Compliance 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. 2008.0477C** subject to the following conditions attached hereto as "EXHIBIT A" 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. XXXXX. The effective date of this Motion shall be the date of this Motion if not appealed (after the 30-day period has expired) OR the date of the decision of the Board of Supervisors if appealed to the Board of Supervisors. For further information, please contact the Board of Supervisors at (415) 554-5184, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

I hereby certify that the foregoing Motion was adopted by the Planning Commission on **December 16, 2010**.

Linda Avery
Commission Secretary

AYES:

NAYS:

ABSENT:

ADOPTED: December 16, 2010

Exhibit A

Conditions of Approval

Whenever "Project Sponsor" is used in the following conditions, the conditions shall also bind any successor to the Project or other persons having an interest in the Project or underlying property.

GENERAL CONDITIONS

1. This authorization is for a Conditional Use Authorization under Planning Code Sections 209.6(b) and 303 to establish wireless telecommunication services (WTS) facility consisting of seven panel antennas to be located within the church steeple of First United Presbyterian Church, as part of the AT&T wireless telecommunications network in a RH-1 (One-Family, Residential) Zoning District, and a 40-X Height and Bulk District, in general conformance with plans filed with the Application dated June 7, 2010, stamped "EXHIBIT B" and are subject to the following conditions, included in the docket for Case No. 2008.0477C, reviewed and approved by the Commission on December 16, 2010.
2. **Plan Drawings.** 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.
3. **Project Implementation Report.** The Project Sponsor shall prepare and submit to the Zoning Administrator a Project Implementation Report. The Project Implementation Report shall:
 - a. Identify the three-dimensional perimeter closest to the facility at which adopted FCC standards for human exposure to RF emissions in uncontrolled areas are satisfied;
 - b. Document testing that demonstrates that the facility will not cause any potential exposure to RF emissions that exceed adopted FCC emission standards for human exposure in uncontrolled areas.
 - c. The Project Implementation Report shall compare test results for each test point with applicable FCC standards. Testing shall be conducted in compliance with FCC

regulations governing the measurement of RF emissions and shall be conducted during normal business hours on a non-holiday weekday with the subject equipment measured while operating at maximum power.

- d. **Testing, Monitoring, and Preparation.** The Project Implementation Report shall be prepared by a certified professional engineer or other technical expert approved by the Department. At the sole option of the Department, the Department (or its agents) may monitor the performance of testing required for preparation of the Project Implementation Report. The cost of such monitoring shall be borne by the Project Sponsor pursuant to the condition related to the payment of the City's reasonable costs.
 - i. **Notification and Testing.** The Project Implementation Report shall set forth the testing and measurements undertaken pursuant to Conditions 2 and 4.
 - ii. **Approval.** The Zoning Administrator shall request that the Certification of Final Completion for operation of the facility not be issued by the Department of Building Inspection until such time that the Project Implementation Report is approved by the Department for compliance with these conditions.
4. **Notification prior to Project Implementation Report.** The Project Sponsor shall undertake to inform and perform appropriate tests for residents of any dwelling units located within 25 feet of the transmitting antenna at the time of testing for the Project Implementation Report.
 - a. At least twenty calendar days prior to conducting the testing required for preparation of the Project Implementation Report, the Project Sponsor shall mail notice to the Department, as well as to the resident of any legal dwelling unit within 25 feet of a transmitting antenna of the date on which testing will be conducted. The Applicant will submit a written affidavit attesting to this mail notice along with the mailing list.
 - b. When requested in advance by a resident notified of testing pursuant to subsection (a), the Project Sponsor shall conduct testing of total power density of RF emissions within the residence of that resident on the date on which the testing is conducted for the Project Implementation Report.
5. **Community Liaison.** Within 10 days of the effective date of this authorization, the Project Sponsor shall appoint a community liaison officer to resolve issues of concern to neighbors and residents relating to the construction and operation of the facilities. Upon appointment, the Project Sponsor shall report in writing the name, address and telephone number of this officer to the Zoning Administrator. The Community Liaison Officer 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.
6. **Installation.** 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.
7. **Screening.**

- a. 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:
 - i. Modify the placement of the facilities;
 - ii. Install fencing, barriers or other appropriate structures or devices to restrict access to the facilities;
 - iii. 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; or
 - iv. Implement any other practice reasonably necessary to ensure that the facility is operated in compliance with adopted FCC RF emission standards.
 - b. To the extent necessary to minimize visual obtrusion and clutter, installations shall conform to the following standards:
 - c. Antennas and back-up equipment shall be painted, fenced, landscaped or otherwise treated architecturally so as to minimize visual impacts;
 - d. Rooftop installations shall be setback such that back-up facilities are not viewed from the street;
 - e. Antennae attached to building facades shall be so placed, screened or otherwise treated to minimize any negative visual impact; and
 - f. 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.
8. **Out of Service.** The Project Sponsor or Property Owner shall remove antennae and equipment that has been out of service for a continuous period of six months or otherwise abandoned.
9. **Periodic Safety Monitoring.** 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.
10. **Emissions Conditions.** 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.
11. **Noise and Heat.** The WTS facility, including power source and cooling facility, shall be operated at all times within the limits of the San Francisco Noise 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.
12. **Implementation and Monitoring Costs.**
- a. The Project Sponsor, on an equitable basis with other WTS providers, shall pay the cost of preparing and adopting appropriate General Plan policies related to the placement of

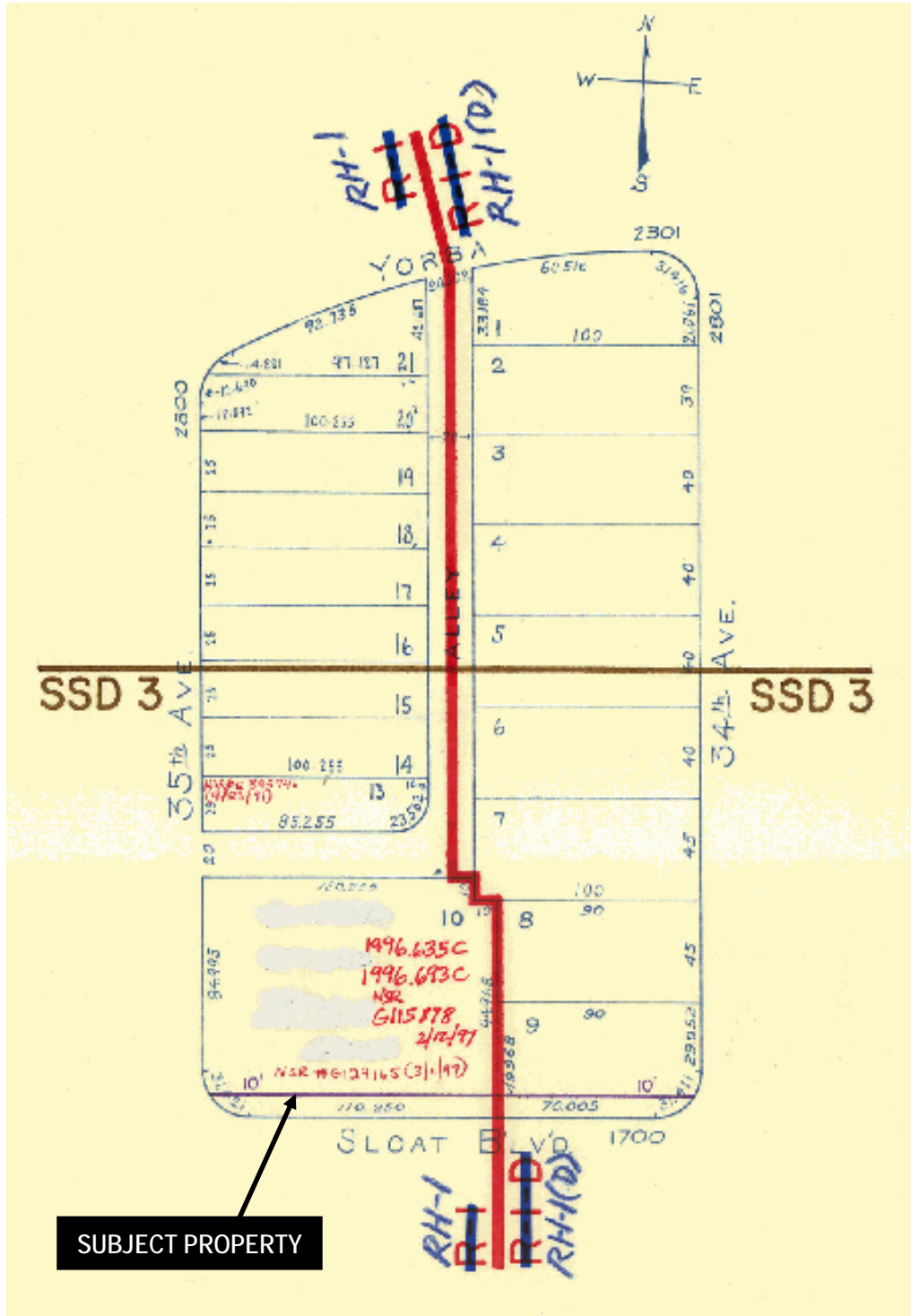
- WTS facilities. Should future legislation be enacted to provide for cost recovery for planning, the Project Sponsor shall be bound by such legislation.
- b. The Project Sponsor or its successors shall be responsible for the payment of all reasonable costs associated with the monitoring of the conditions of approval contained in this authorization, including costs incurred by this Department, the Department of Public Health, the Department of Electricity and Telecommunications, Office of the City Attorney, or any other appropriate City Department or agency pursuant to Planning Code Section 351(f)(2). The Planning Department shall collect such costs on behalf of the City.
 - c. The Project Sponsor shall be responsible for the payment of all fees associated with the installation of the subject facility, which are assessed by the City pursuant to all applicable law.
13. **All Conditions Basis for Revocation.** The Project Sponsor or its successors shall comply fully with all conditions specified in this authorization. Failure to comply with any condition shall constitute grounds for revocation under the provisions of Planning Code sections 174, 176 and 803(d). The Zoning Administrator shall schedule a public hearing before the Planning Commission to receive testimony and other evidence to demonstrate a finding of a violation of a condition of the authorization of the use of the facility and, finding that violation, the Commission shall revoke the Conditional Use authorization. Such revocation by the Planning Commission is appealable to the Board of Supervisors.
14. 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.
15. **Complaints and Proceedings.** Should any party complain to the Project Sponsor about the installation or operation of the facilities, which complaints are not resolved by the Project Sponsor, the Project Sponsor (or its appointed agent) shall advise the Zoning Administrator of the complaint and the failure to satisfactorily resolve such complaint. If the Zoning Administrator thereafter finds a violation of any provision of the City Planning Code and/or any condition of approval herein, the Zoning Administrator shall attempt to resolve such violation on an expedited basis with the Project Sponsor. If such efforts fail, the Zoning Administrator shall refer such complains to the Commission for consideration at the next regularly scheduled public meeting.
16. **Severability.** 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 of the remaining provisions, clauses, sentences, or sections of these conditions. It is hereby declared to be the intent of the Commission that these conditions of approval would have been adopted had such invalid sentence, clause, or section or part thereof not been included herein.
17. **Transfer of Operation.** 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.

18. **Compatibility with City Emergency Services.** The facility shall not be operated, nor 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.
19. **Notice of Recordation.** Prior to the issuance of any building permit for the construction of 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, which notice shall state that construction of the Project has been authorized by and is subject to the conditions of this Motion. From time to time after the recordation of such notice, at the request of the Project Sponsor, the Zoning Administrator shall affirm in writing the extent to which the conditions of this Motion have been satisfied, and record said writing if requested.
20. Violation of the conditions contained in this Motion or of any other provisions of the Planning Code may be subject to abatement procedures and fines up to \$500 a day in accordance with Planning Code Section 176.
21. Should monitoring of the Conditions of Approval contained in Exhibit A of this Motion be required, the Project Sponsor or successors shall pay fees as established in Planning Code Section 351(e)(1).
22. The authorization and right vested by virtue of this action shall be deemed void and canceled if, within 3 years of the date of this Motion, a site permit or building permit for the Project has not been secured by Project Sponsor. This authorization may be extended at the discretion of the Zoning Administrator only if the failure to issue a permit by the Department of Building Inspection is delayed by a city, state, or federal agency or by appeal of the issuance of such permit.

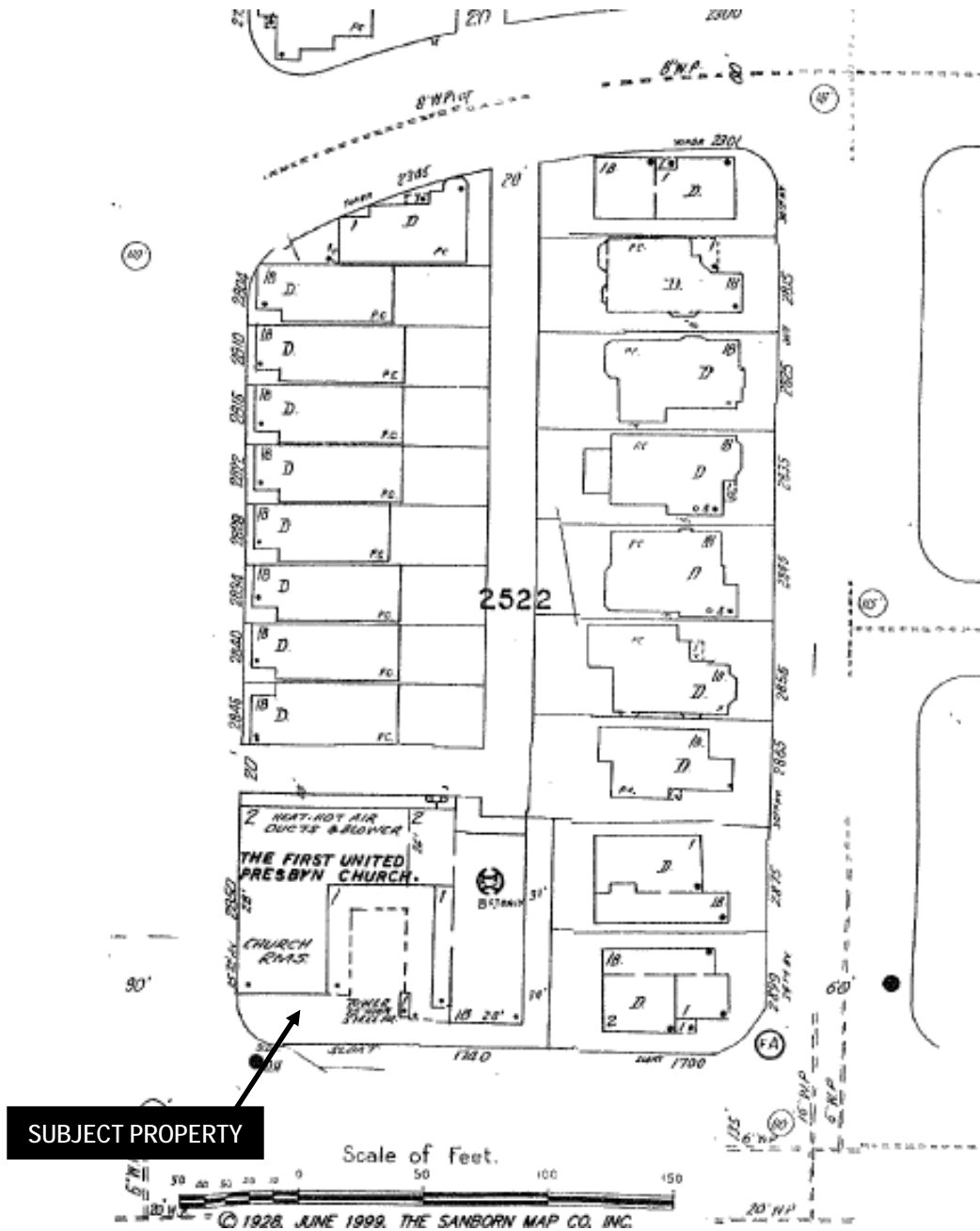
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Parcel Map



Conditional Use Request Hearing
 Case Number 2008.0477C
 Wireless Telecommunications Facility
 1740 Sloat Boulevard

Sanborn Map*



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



Conditional Use Request Hearing
Case Number 2008.0477C
Wireless Telecommunications Facility
1740 Sloat Boulevard

Aerial Photo view looking North



SUBJECT PROPERTY

Conditional Use Request Hearing
Case Number 2008.0477C
Wireless Telecommunications Facility
1740 Sloat Boulevard

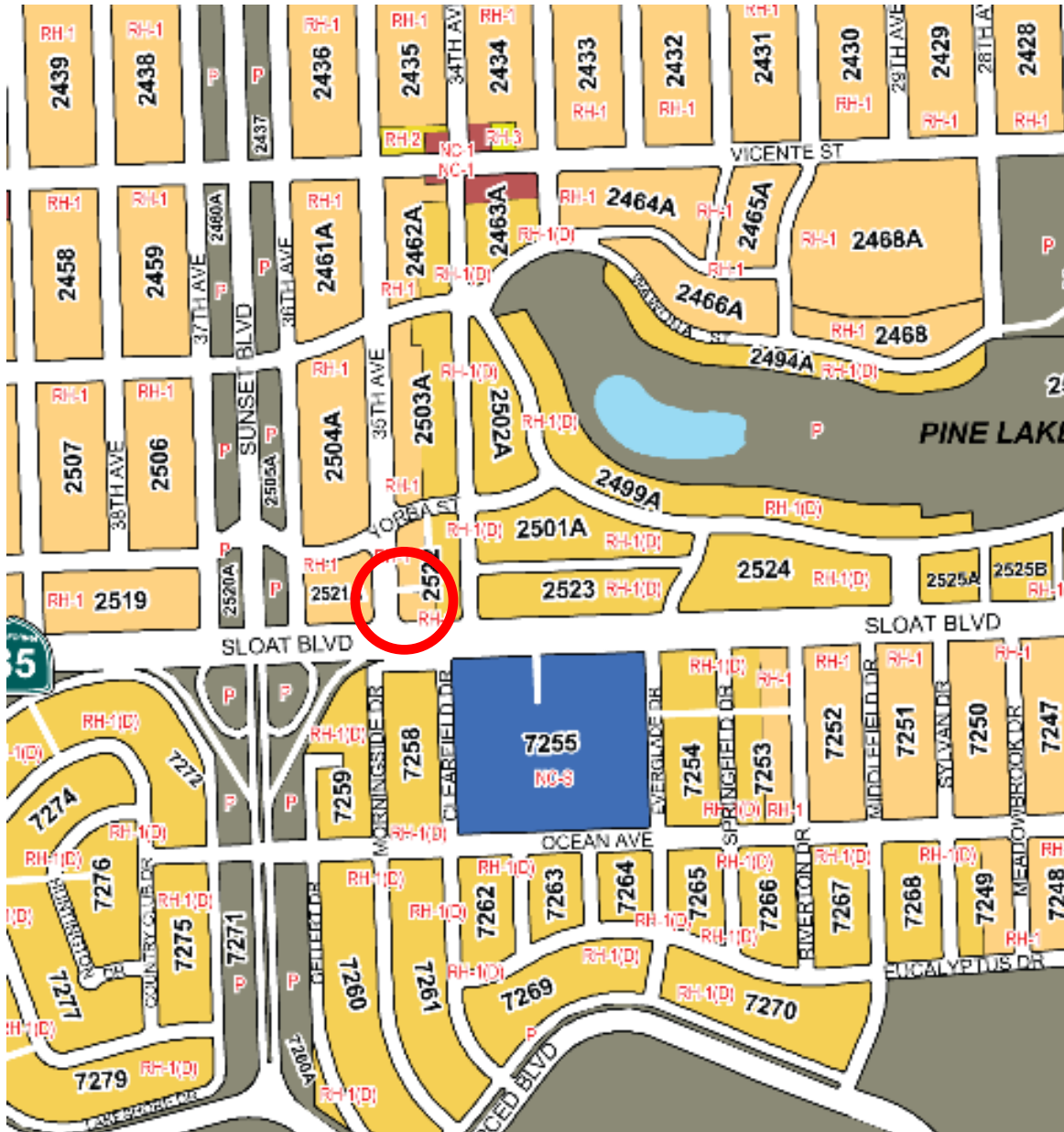
Aerial Photo view looking South



SUBJECT PROPERTY

Conditional Use Request Hearing
Case Number 2008.0477C
Wireless Telecommunications Facility
1740 Sloat Boulevard

Zoning Map



Conditional Use Request Hearing
Case Number 2008.0477C
Wireless Telecommunications Facility
1740 Sloat Boulevard

Site Photo



SUBJECT PROPERTY

Existing



at&t

CN5677

1740 Sloat Boulevard

1740 Sloat Boulevard
San Francisco, CA 94132

Proposed



proposed AT&T antennas
within church tower behind
RF transparent screening

Photosimulation of the proposed telecommunication facility as seen looking west along Sloat Blvd.

Existing



at&t

CN5677

1740 Sloat Boulevard

1740 Sloat Boulevard
San Francisco, CA 94132

Proposed



proposed AT&T antennas
within church tower behind
RF transparent screening

proposed AT&T equipment
area

Existing



existing T-Mobile equipment



at&t

CN5677

1740 Sloat Boulevard

1740 Sloat Boulevard
San Francisco, CA 94132

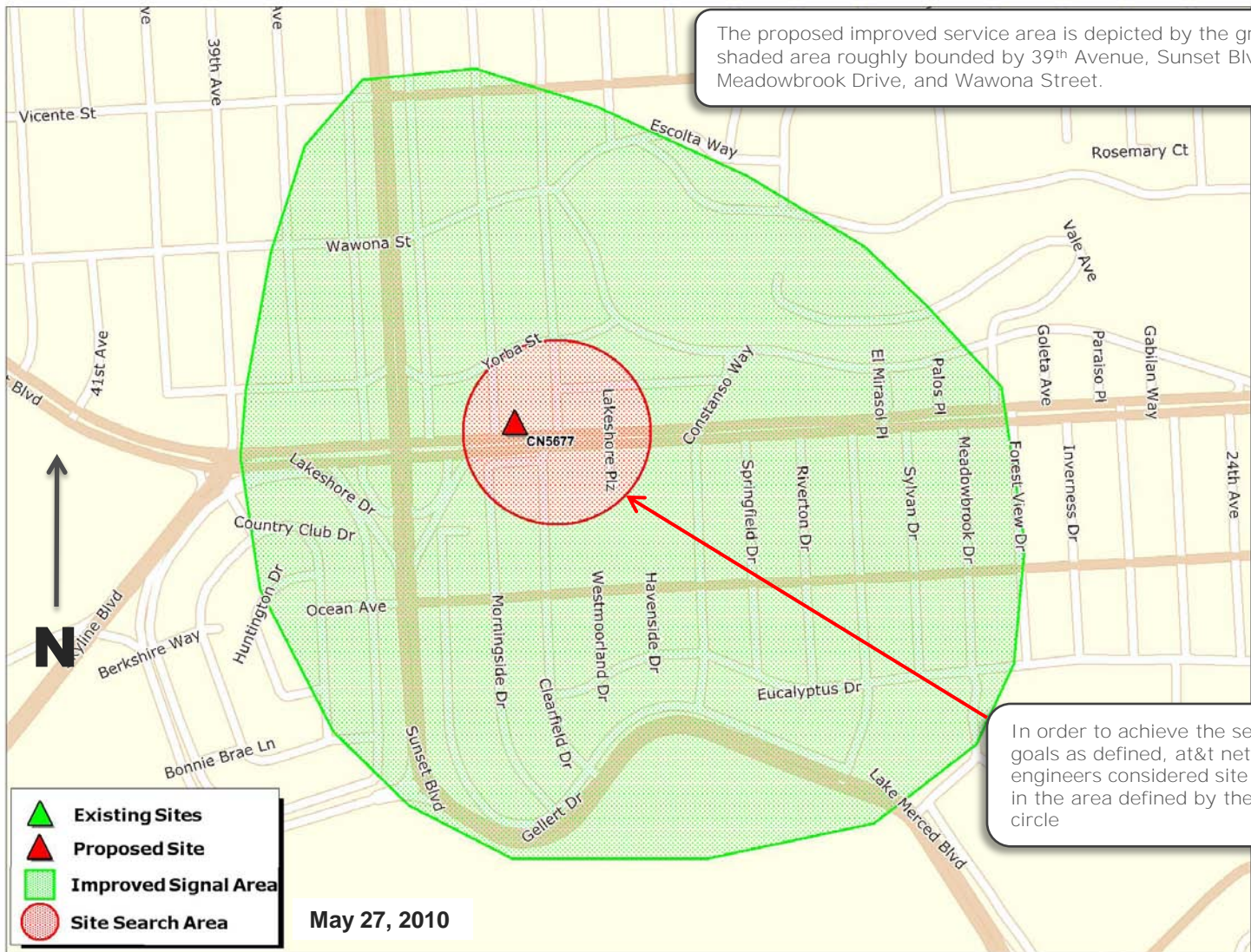
Proposed



proposed AT&T antennas
within church tower behind
RF transparent screening

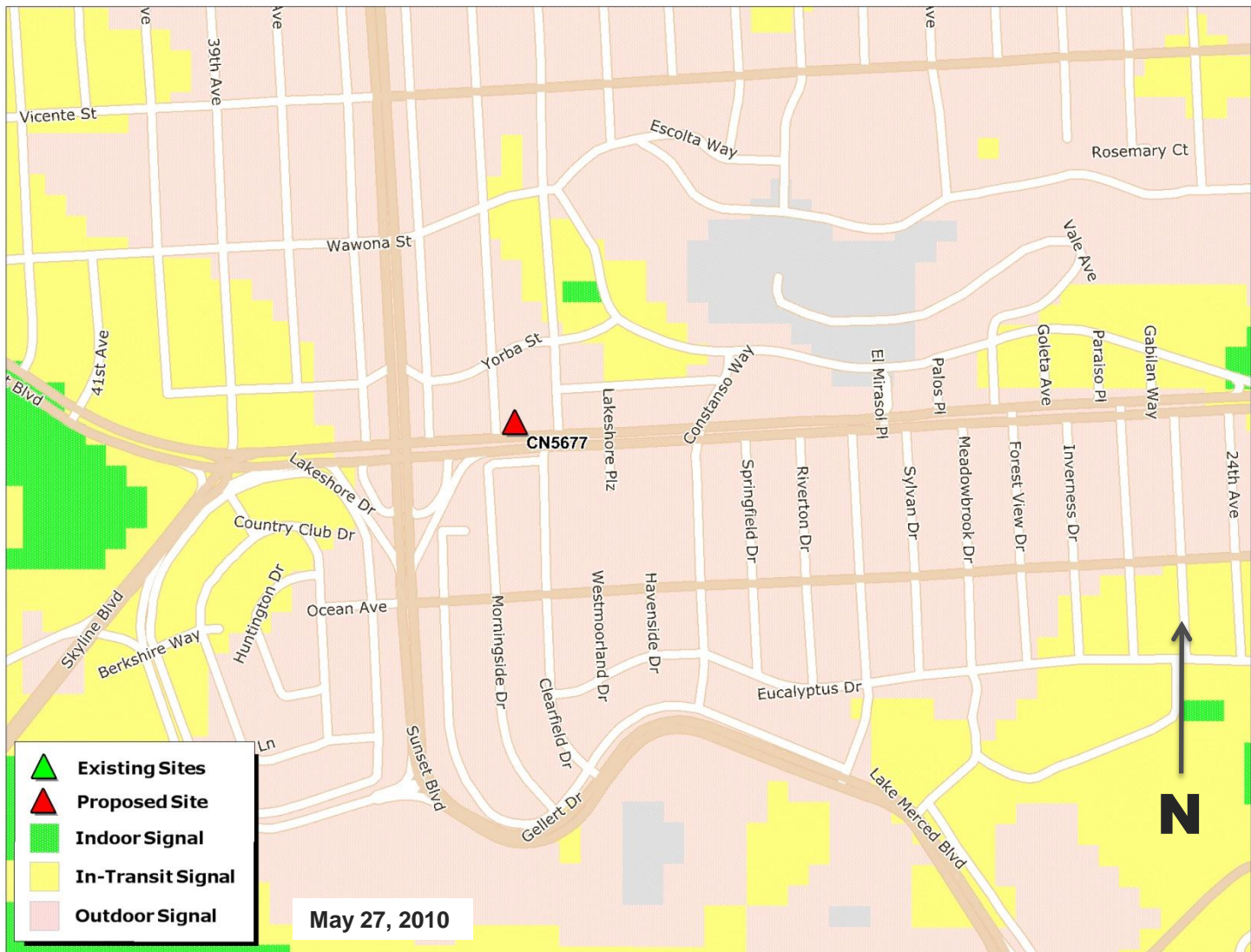
Service Enhancement Objective (CN5677)

1740 Sloat Boulevard



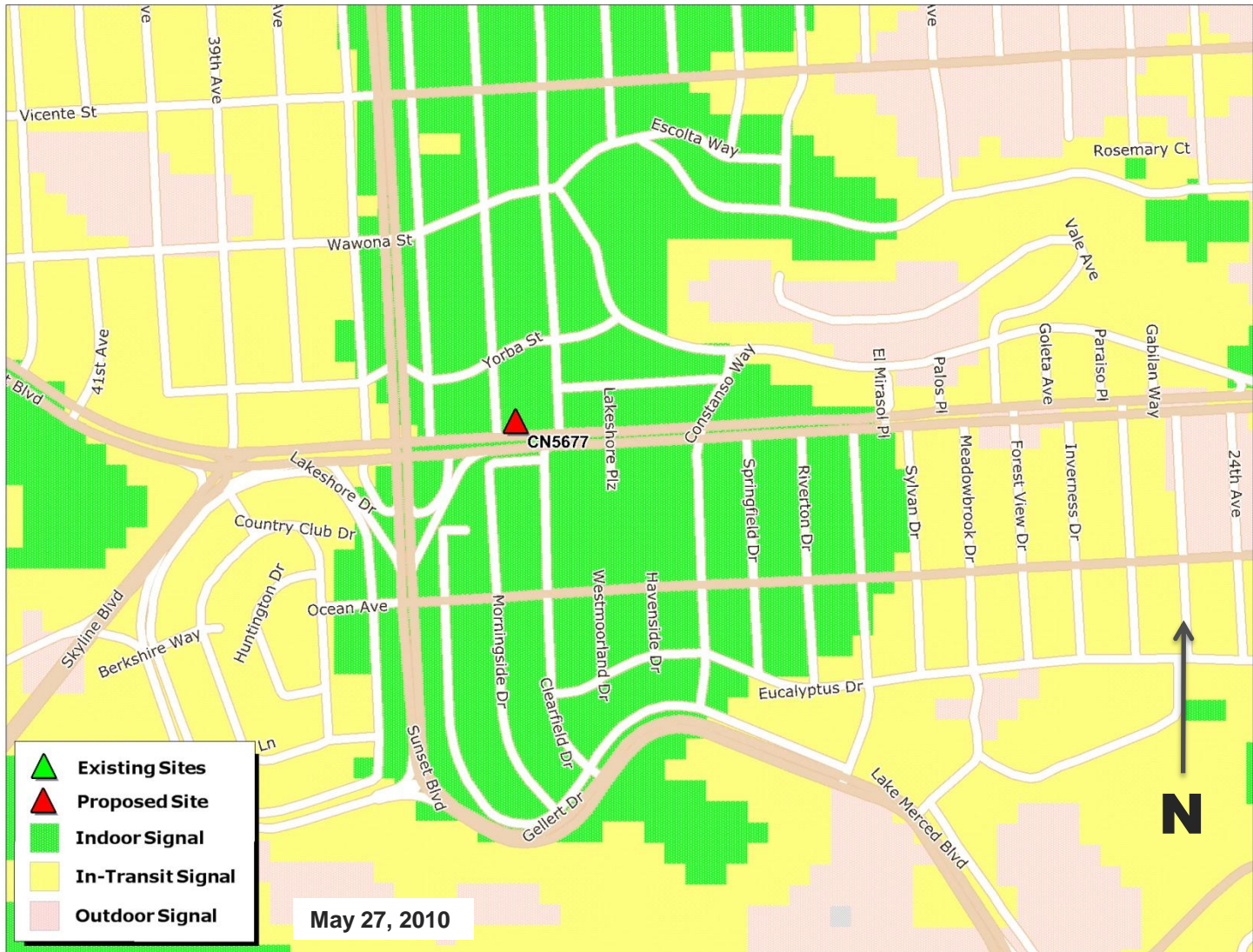
Proposed Site at 1740 Sloat (CN5677)

Signal strength BEFORE site is constructed



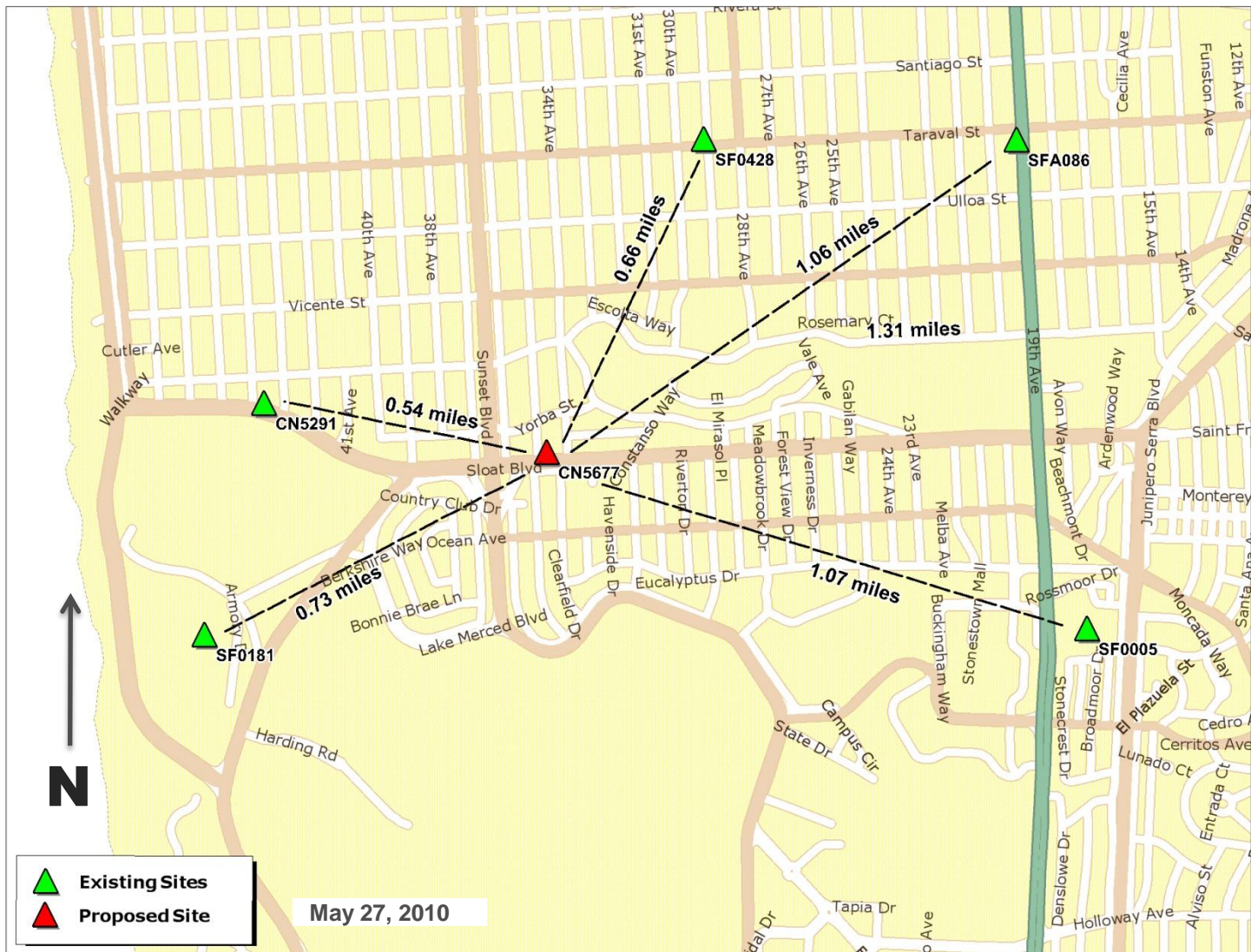
Proposed Site at 1740 Sloat (CN5677)

Signal strength AFTER site is constructed



Existing Surrounding Sites at 1740 Sloat

CN5677





Review of Cellular Antenna Site Proposals

Project Sponsor : AT&T Wireless **Planner:** Ionin
RF Engineer Consultant: Hammett and Edison **Phone Number:** (707) 996-5200
Project Address/Location: 1740 Sloat Av
Site ID: 186 **SiteNo.:** CNU5677

The following information is required to be provided before approval of this project can be made. These information requirements are established in the San Francisco Planning Department Wireless Telecommunications Services Facility Siting Guidelines dated August 1996. In order to facilitate quicker approval of this project, it is recommended that the project sponsor review this document before submitting the proposal to ensure that all requirements are included.

- X 1. The location of all existing antennas and facilities. Existing RF levels. (WTS-FSG, Section 11, 2b)
 Existing Antennas No Existing Antennas: 14
- X 2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from the approved antennas. (WTS-FSG Section 11, 2b)
 Yes No
- X 3. The number and types of WTS within 100 feet of the proposed site and provide estimates of cumulative EMR emissions at the proposed site. (WTS-FSG, Section 10.5.2)
 Yes No
- X 4. Location (and number) of the Applicant’s antennas and back-up facilities per building and number and location of other telecommunication facilities on the property (WTS-FSG, Section 10.4.1a)
- X 5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to the application (WTS-FSG, Section 10.4.1c)
 Maximum Power Rating: 5245 watts.
- X 6. The total number of watts per installation and the total number of watts for all installations on the building (roof or side) (WTS-FSG, Section 10.5.1).
 Maximum Effective Radiant: 5245 watts.
- X 7. Preferred method of attachment of proposed antenna (roof, wall mounted, monopole) with plot or roof plan. Show directionality of antennas. Indicate height above roof level. Discuss nearby inhabited buildings (particularly in direction of antennas) (WTS-FSG, Section 10.41d)
- X 8. Report estimated ambient radio frequency fields for the proposed site (identify the three-dimensional perimeter where the FCC standards are exceeded.) (WTS-FSG, Section 10.5) State FCC standard utilized and power density exposure level (i.e. 1986 NCRP, 200 μw/cm²)
 Maximum RF Exposure: 0.016 mW/cm² Maximum RF Exposure Percent: 2.3
- X 9. Signage at the facility identifying all WTS equipment and safety precautions for people nearing the equipment as may be required by any applicable FCC-adopted standards. (WTS-FSG, Section 10.9.2). Discuss signage for those who speak languages other than English.
 Public_Exclusion_Area Public Exclusion In Feet: 49
 Occupational_Exclusion_Area Occupational Exclusion In Feet: 16

X 10. Statement on who produced this report and qualifications.

X **Approved.** Based on the information provided the following staff believes that the project proposal will comply with the current Federal Communication Commission safety standards for radiofrequency radiation exposure. FCC standard 1986-NCRP **Approval of the subsequent Project Implementation Report is based on project sponsor completing recommendations by project consultant and DPH.**

Comments:

There are 14 existing antennas operated by Sprint and T-Mobile installed on the roof top of the building at 1740 Sloat Av. Existing RF levels at ground level were around 1% of the FCC public exposure limit. There were observed no other antennas within 100 feet of this site. AT&T Wireless proposes to install 7 new antenna. The antennas are mounted at a height of feet above the ground. The estimated ambient RF field from the proposed AT&T Wireless transmitters at ground level is calculated to be 0.016 mW/sq cm., which is 2.3 % of the FCC public exposure limit. The three dimensional perimeter of RF levels equal to the public exposure limit extends 49 feet and does not reach any publicly accessible areas. Warnings signs must be posted at the antennas and roof access points in English, Spanish and Chinese. Worker should not have access to within 16 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 S)

Signed:



Dated: 6/29/2010

Patrick Fosdahl

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

**AT&T Mobility • Proposed Base Station (Site No. CN5677)
1740 Sloat Boulevard • 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. CN5677) proposed to be located at 1740 Sloat Boulevard in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency ("RF") electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of WTS facilities with prevailing safety standards. The acceptable limits set by the FCC for exposures of unlimited duration are:

<u>Wireless Service</u>	<u>Frequency Band</u>	<u>Occupational Limit</u>	<u>Public Limit</u>
Microwave (Point-to-Point)	5–23,000 MHz	5.00 mW/cm ²	1.00 mW/cm ²
BRS (Broadband Radio)	2,600	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	2.35	0.47
[most restrictive frequency range]	30–300	1.00	0.20

The site was visited by Mr. David Kelly, a qualified field technician contracted by Hammett & Edison, Inc., during normal business hours on January 6, 2010, a non-holiday weekday, and reference has been made to information provided by AT&T, including zoning drawings by MSA Architecture & Planning, Inc., dated June 3, 2010.

Checklist

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

Six directional panel antennas were observed in the church bell tower at 1740 Sloat Boulevard, for use by Sprint Nextel and T-Mobile. Existing RF levels for a person at ground near the site were less than 1% of the most restrictive public exposure limit.

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

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

**AT&T Mobility • Proposed Base Station (Site No. CN5677)
1740 Sloat Boulevard • San Francisco, California**

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

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

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

AT&T proposes to install seven Andrew directional panel antennas with up to 4° downtilt in the church bell tower. One group of three Model DBXNH-6565A-R2M antennas would be mounted at an effective height of about 43 feet above ground, 15 feet above the top of the church roof, and would be oriented toward 100°T. The other antennas would be mounted in two stacked pairs of Model DBXNH-6565A-R2M and Model QBXLH-6565A-R2M antennas (one of each) at effective heights of about 36 and 43 feet above ground, 8 and 15 feet above the roof, and would be oriented toward 0°T and 180°T. The antennas for the other carriers were mounted higher in the bell tower.

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

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

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

The maximum effective radiated power proposed by AT&T in any direction is 5,245 watts, representing simultaneous operation at 1,160 watts for AWS, 2,575 watts for PCS, 980 watts for cellular, and 530 watts for 700 MHz. The numbers of watts for the other carriers are not known.

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

The drawings show the proposed antennas to be installed as described in Item 4 above. There were noted buildings of similar height at least 80 feet away.

8. Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed AT&T operation by itself is calculated to be 0.016 mW/cm², which is 2.3% of the applicable public exposure limit. Ambient RF levels at the site are therefore estimated to be less than 3% of the public limit. The three-dimensional perimeter of RF levels equal to the public limit is calculated to extend up to 49 feet out from the antenna faces and to much lesser distances above, below, and to the sides of the antennas; this does not reach the roof of the church building or any publicly accessible areas.

**AT&T Mobility • Proposed Base Station (Site No. CN5677)
1740 Sloat Boulevard • San Francisco, California**

9. Describe proposed signage at site.

Due to their mounting location, the AT&T antennas would not be accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, no access within 16 feet directly in front of the antennas themselves, such as might occur during maintenance work on the church tower, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. Posting explanatory warning signs* at the ladder inside the bell tower and on the face of the bell tower at or below the antennas, such that the signs would be readily visible from any angle of approach to persons who might need to work within that distance, would be sufficient to meet FCC-adopted guidelines. Similar measures should already be in place for the other carriers at the site; applicable keep-back distances for those carriers have not been determined as part of this study.

10. Statement of authorship.

The undersigned author of this statement is a qualified Professional Engineer, holding California Registrations Nos. E-13026 and M-20676, which expire on June 30, 2011. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is my professional opinion that the proposed AT&T Mobility base station at 1740 Sloat Boulevard in San Francisco will comply with the prevailing standards for limiting public exposure to radio frequency energy and, therefore, will not for this reason cause a significant impact on the environment. Posting of explanatory signs is recommended to establish compliance with occupational exposure limitations.

June 22, 2010



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

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

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

I, Amy Million, do hereby declare as follows:
(print name)

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

2. The meeting was conducted at 1740 SLOAT BLVD. (location/address)
on June 16, 2010 (date) from 7:00 (time).

3. I have included the **mailing list, meeting initiation, sign-in sheet, issue/response summary, and reduced plans** with the Conditional Use Application. I understand that I am responsible for the accuracy of this information and that erroneous information may lead to suspension or revocation of the permit.

4. I have prepared these materials in good faith and to the best of my ability.

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

EXECUTED ON THIS DAY, June 28, 2010 IN SAN FRANCISCO

Amy Million
Signature

Amy Million
Name (type or print)

KDI (Agent) representing AT:T MOBILITY
Relationship to Project, e.g., Owner, Agent
(if Agent, give business name and profession)

1740 SLOAT BLVD.
Project Address

NOTICE OF NEIGHBORHOOD MEETING

To: Neighbors & Owners within 500' radius of First United Presbyterian Church – 1740 Sloat Blvd.

Meeting Information

Date: June 16, 2010
Time: 7:00 p.m.
Where: First United Presbyterian Church
1740 Sloat Blvd.
San Francisco, CA 94132

Site Information

Address: 1740 Sloat Blvd.
Block/Lot 2522/010
Zoning: RH-1

Applicant

AT&T Mobility

Contact Information

AT&T Mobility Hotline
(415) 646-0972

AT&T Mobility is proposing a wireless communication facility at 1740 Sloat Blvd. needed by AT&T Mobility as part of its San Francisco wireless network. The proposed AT&T Mobility site is an unmanned facility consisting of the installation of seven (7) panel antennas placed inside the existing bell tower and will not be visible to the public. The equipment will be located on the ground next to the church placed behind a fence. Plans and photo simulations will be available for your review at the meeting. You are invited to attend a community informational meeting at located at First United Presbyterian Church, 1740 Sloat Blvd. on June 16th, 2010 at 7:00 p.m. to learn more about the project.

If you have any questions regarding the proposal and are unable to attend the meeting, please contact the AT&T Mobility Hotline at (415) 646-0972 and an AT&T Mobility specialist will return your call. Please contact Adrian Putra at (415) 575-9079 with the City of San Francisco Planning Department if you have any questions regarding the planning process.

NOTE: If you require an interpreter to be present at the meeting, please contact our office at (415) 646-0972 at your earliest convenience and we will make every effort to provide you with an interpreter.

社區會議通知

此致：第一聯合長老教會所在地 (1740 Sloat Blvd.) 半徑距離 500 英尺以內的居民與業主

會議資訊

日期：2010 年 6 月 16 日
時間：下午 7 點
地點：第一聯合長老教會
1740 Sloat Blvd.
San Francisco, CA 94132

設施場地資訊

地址：1740 Sloat Blvd.
街區/空地 2522/010
區域劃分：RH-1

申請者

AT&T Mobility

聯絡資訊

AT&T Mobility 專線
(415) 646-0972

AT&T Mobility 申請於 1740 Sloat Blvd. 建置無線通訊設施，做為其舊金山無線網路服務範圍的一部分。AT&T Mobility 所提案申請的基地台是一無人設施，其中裝設七 (7) 個平板天線 (置於現有鐘塔中)，並不會暴露在一般大眾視線所及範圍內。該設備將位於教堂隔壁的地面上，並且加設柵欄。會議中將提供計畫書及模擬相片供您參考。敬邀您於 2010 年 6 月 16 日下午 7 點，前往位於 1740 Sloat Blvd. 的第一聯合長老教會參加社區資訊通報會議，深入瞭解這項專案的詳細資訊。

如您對此項提案有任何疑問，而且無法參加本會議，請致電 AT&T Mobility 專線 (415) 646-0972，AT&T Mobility 專員將會回電給您。如對於計劃程序有任何疑問，請致電 (415) 575-9079，與舊金山市規劃部 (City of San Francisco Planning Department) 的 Adrian Putra 聯絡。

附註：會議當天如需翻譯人員，請儘早致電 (415) 646-0972 與本辦公室聯絡，我們會設法安排翻譯人員到場。

NOTIFICACIÓN DE REUNIÓN DE VECINDARIO

Para: Vecinos y propietarios dentro de un radio de 500' de
First United Presbyterian Church, 1740 Sloat Blvd.

Información de la reunión

Fecha: 16 de junio, 2010
Hora: 7:00 p.m.
Dónde: First United Presbyterian Church
1740 Sloat Blvd.
San Francisco, CA 94132

Información del lugar

Dirección: 1740 Sloat Blvd.
Cuadra/Lote 2522/010
Zonificación: RH-1

Solicitante

AT&T Mobility

Información de contacto

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

AT&T Mobility propone una instalación de comunicación inalámbrica en 1740 Sloat Blvd. necesaria para AT&T Mobility como parte de su red inalámbrica en San Francisco. La ubicación propuesta de AT&T Mobility es una instalación sin personal que consiste en la instalación de siete (7) antenas panel dentro del campanario actual que no estarán visibles al público. El equipo estará ubicado en el terreno contiguo a la iglesia colocado detrás de una cerca. Estarán disponibles planos y fotos para que usted los revise en la reunión. Se lo invita a asistir a la reunión informativa de la comunidad que se realizará en First United Presbyterian Church, 1740 Sloat Blvd. el 16 de junio de 2010 a las 7:00 p.m. para tener más información sobre el proyecto.

Si tiene preguntas relacionadas con la propuesta y no puede asistir a la reunión, por favor, contacte a la Línea directa de AT&T Mobility al (415) 646-0972 y un especialista de AT&T Mobility le devolverá su llamado. Por favor, contacte a Adrian Putra al (415) 575-9079 en el Departamento de Planificación de San Francisco si tiene alguna pregunta relacionada con el proceso de planificación.

NOTA: Si necesita que un intérprete esté presente en la reunión, por favor, contacte a nuestra oficina al (415) 646-0972 cuando sea más conveniente para usted y nosotros haremos todos los esfuerzos necesarios para proporcionarle un intérprete.



AT&T

CN5677

1740 SLOAT BLVD, SAN FRANCISCO, CA 94132

DRAWING INDEX	REV	VICINITY MAP	PROJECT INFORMATION																																																	
<p>T01 TITLE SHEET T02 GENERAL NOTES T03 ANTENNA SPECIFICATIONS T04 ANTENNA SPECIFICATIONS LS1 SITE SURVEY A01 PROJECT AREA PLAN A02 PROJECT AREA, EQUIPMENT & ANTENNA LAYOUT PLANS A03 ELEVATIONS A04 ELEVATIONS</p>	<p>9 9 9 0 9 9 9 9 9</p>	<p>DIRECTIONS FROM AWS HEADQUARTERS: 4430 ROSEWOOD DR BLDG. 3 PLEASANTON, CA 94588</p> <p>1. HEAD EAST ON ROSEWOOD DR 20 FT 2. MAKE A U-TURN 0.5MI 3. TAKE THE 2ND RIGHT ONTO OWENS DR 0.1MI 4. TURN RIGHT AT HACIENDA DR 0.3MI 5. MERGE ONTO I-580 W VIA THE RAMP TO OAKLAND 27.4MI 6. TAKE THE EXIT ON THE LEFT ONTO I-80 W TOWARD SAN FRANCISCO PARTIAL TOLL ROAD 8.6MI 7. MERGE ONTO US-101 S2.0 MI 8. TAKE THE EXIT ONTO I-280 S TOWARD DALY CITY 2.5MI 9. EXIT ONTO OCEAN AVE 2.0MI 10. TURN RIGHT AT 21ST AVE 0.1MI 11. TURN LEFT AT SLOAT BLVD DESTINATION WILL BE ON THE RIGHT. 0.8 MI</p> <p>1740 SLOAT BLVD SAN FRANCISCO, CA 94116</p>	<p>SCOPE OF WORK: UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF ADDING A (P) 8.5'X25' AT&T LEASE ARE AND INSTALLATION OF (7) (P) PANEL ANTENNAS WITHIN THE (E) CHURCH STEEPLE AND (5) (P) EQUIPMENT CABINETS LOCATED ON THE GROUND; COAX CABLE RUNS FROM CABINETS TO ANTENNAS AND ELECTRIC & TELEPHONE SERVICE TO EQUIPMENT FROM EXISTING SOURCE.</p> <p>SITE ADDRESS: 1740 SLOAT BLVD SAN FRANCISCO, CA 94116</p> <p>PROPERTY OWNER: FIRST UNITED PRESBYTERIAN CHURCH</p> <p>APPLICANT: AT&T 4430 ROSEWOOD DRIVE BLDG. 3 PLEASANTON, CA 94588</p> <p>AGENT: KDI LAND USE PLANNING</p> <p>CONTACT: AMY MILLION PHONE: 949-307-6431</p> <p>CON. MANAGER: SILVON GREEN PHONE:</p> <p>JURISDICTION: SAN FRANCISCO NAD: 83</p> <p>APN: 2522-010 LATITUDE: 37°44'03.21"</p> <p>PROPOSED USE: TELECOMMUNICATIONS LONGITUDE: 122°29'30.78"</p> <p>TYPE OF CONSTRUCTION: TYPE V-A ELEV. 122.2'</p> <p>OCCUPANCY: A</p> <p>ZONING: RH-1 (RESIDENTIAL-HOUSE, ONE FAMILY)</p> <p>SITE QUALIFICATION PARTICIPANTS</p> <table border="1"> <thead> <tr> <th></th> <th>PRINT NAME</th> <th>COMPANY</th> <th>NUMBER</th> </tr> </thead> <tbody> <tr> <td>A/E</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>SAS</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>RF ENGINEER</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>CON. MANAGER</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>LANDLORD</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		PRINT NAME	COMPANY	NUMBER	A/E	_____	_____	_____	SAS	_____	_____	_____	RF ENGINEER	_____	_____	_____	CON. MANAGER	_____	_____	_____	LANDLORD	_____	_____	_____																									
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<p>MSA Architecture & Planning, Inc. 4425 17th Street San Francisco, CA 94114 415.503.1363 fax 949.251.1126 Santa Ana San Diego San Francisco www.msa-ap.com</p>	<p>1740 SLOAT BLVD. CN5677 1740 SLOAT BLVD. SAN FRANCISCO, CA 94132</p>		<table border="1"> <tbody> <tr> <td>9</td> <td>06/07/10</td> <td>ISSUED FOR 100% ZONING REV.</td> <td>JWH</td> <td>-</td> <td>-</td> </tr> <tr> <td>8</td> <td>06/03/10</td> <td>ISSUED FOR 100% ZONING REV.</td> <td>JA</td> <td>-</td> <td>-</td> </tr> <tr> <td>7</td> <td>01/07/10</td> <td>ISSUED FOR 100% ZONING REV.</td> <td>JA</td> <td>-</td> <td>-</td> </tr> <tr> <td>6</td> <td>11/12/09</td> <td>ISSUED FOR 100% ZONING REV.</td> <td>JA</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>11/03/09</td> <td>ISSUED FOR 100% ZONING REV.</td> <td>JA</td> <td>-</td> <td>-</td> </tr> <tr> <td>NO.</td> <td>DATE</td> <td>REVISIONS</td> <td>BY</td> <td>CHK</td> <td>APP'D</td> </tr> <tr> <td colspan="2">SCALE: AS SHOWN</td> <td>DESIGNED BY: HGL</td> <td colspan="3">DRAWN BY: HGL</td> </tr> </tbody> </table>	9	06/07/10	ISSUED FOR 100% ZONING REV.	JWH	-	-	8	06/03/10	ISSUED FOR 100% ZONING REV.	JA	-	-	7	01/07/10	ISSUED FOR 100% ZONING REV.	JA	-	-	6	11/12/09	ISSUED FOR 100% ZONING REV.	JA	-	-	5	11/03/09	ISSUED FOR 100% ZONING REV.	JA	-	-	NO.	DATE	REVISIONS	BY	CHK	APP'D	SCALE: AS SHOWN		DESIGNED BY: HGL	DRAWN BY: HGL			<p>AT&T</p> <p>TITLE SHEET</p> <table border="1"> <thead> <tr> <th>JOB NO.</th> <th>DRAWING NUMBER</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>CN5677</td> <td>TD1</td> <td>9</td> </tr> </tbody> </table>	JOB NO.	DRAWING NUMBER	REV	CN5677	TD1	9
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SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - CONCRETE CAST AGAINST EARTH.....3 IN.
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 AND LARGER2 IN.
 - #5 AND SMALLER & WWF.....1 1/2 IN.
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 - SLAB AND WALL3/4 IN.
 - BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. SPECIAL INSPECTIONS, WHEN REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.
6. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 - A. ASTM A-572, GRADE 50 : ALL SHAPES
 - B. ASTM A-307 : ALL BOLTS, UNO.
 - C. ASTM A-36 : ANGLES, CHANNELS, PLATES AND MISC.
 - D. ASTM A-500, GRADE B : ALL TUBES.

APPLICABLE BUILDING CODES AND STANDARDS:

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. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN. THE 2007 CBC, 2007 CAC, 2007 CEC, 2007 CMC, 2007 CPC AND 2007 CFC AS AMENDED BY THE STATE OF CALIFORNIA AND THE LOCAL JURISDICTION ARE APPLICABLE TO THIS PROJECT.

ELECTRICAL CODE:
 (NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2002, NATIONAL ELECTRICAL CODE, AS ADOPTED BY THE GOVERNING JURISDICTION)
 LIGHTNING PROTECTION CODE:
 [NFPA 780 - 1999, LIGHTNING PROTECTION CODE]

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES

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 ELECTRONIC EQUIPMENT

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

TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

TELCORDIA GR-63 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION

TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING

TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

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

ACCESSIBILITY DISCLAIMER:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED IN ACCORDANCE WITH 2007 CALIFORNIA BUILDING CODE, TITLE 24, PART 24, VOL. 1, CHAPTER 11B, SECTION 1123B.2 EXCEPTION 1.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - BUILD CONTRACTOR
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - AT&T WIRELESS SERVICES.
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

 ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.

 ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
11. ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
12. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
13. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
14. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
15. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
16. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
17. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
18. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
19. DELETED.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	TYP	TYPICAL	IGR	INTERIOR GROUND RING (HALO)
BTS	BASE TRANSCIVER STATION	REQ	REQUIRED	RBS	RADIO BASE STATION
(E)	EXISTING	EGR	EQUIPMENT GROUND RING		
MIN	MINIMUM	AWG	AMERICAN WIRE GAUGE		
N.T.S.	NOT TO SCALE	MGB	MASTER GROUND BUS		
REF	REFERENCE	EG	EQUIPMENT GROUND		
RF	RADIO FREQUENCY	BCW	BARE COPPER WIRE		
T.B.D.	TO BE DETERMINED	SIAD	SMART INTEGRATED ACCESS DEVICE		
T.B.R.	TO BE RESOLVED	GEN	GENERATOR		

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GENERAL NOTES		
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CN5677	T02	9

Product Specifications



DBXNH-6565BR2M

DualPol® Dual Band Antenna, 698-896 MHz and 1710-2180 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt

- Two DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew Teletilt® remote control system
- The RF connectors are IP67 rated and the radome is IP56 rated

CHARACTERISTICS

General Specifications

Antenna Type DualPol® dual band
 Brand DualPol® | Teletilt®
 Operating Frequency Band 1710 - 2180 MHz | 698 - 896 MHz

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1710-1880	1880-1990	1920-2180
Beamwidth, Horizontal, degrees	65	65	60	60	63
Beamwidth, Horizontal Tolerance, degrees	±6	±6	±6	±6	±6
Gain, dBd	13.0	13.8	16.1	16.2	15.3
Gain, dB	15.1	15.9	18.2	18.3	17.4
Beamwidth, Vertical, degrees	12.3	11.0	5.4	5.1	4.8
Beam Tilt, degrees	0-10	0-10	0-6	0-6	0-6
Upper Sidelobe Suppression (USLS), typical, dB	16	16	15	16	16
Front-to-Back Ratio at 180°, dB	25	28	30	32	30
Cross Polarization Ratio (CPR) at Boresight, dB	12	12	12	12	12
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR Return Loss, db	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0
Intermodulation Products, 3rd Order, 2 x 20 W, dbc	-150	-150	-150	-150	-150
Input Power, maximum, watts	400	400	300	300	300
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance, ohms	50	50	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground	dc Ground	dc Ground

www.commscope.com/andrew

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 See www.commscope.com/andrew for the most current information.

Product Specifications



DBXNH-6565BR2M

Mechanical Specifications

Color Off white
 Connector Interface 7-16 DIN Female
 Connector Location Bottom
 Connector Quantity 4
 Wind Loading, maximum 525.0 N @ 100 mph
 118.0 lbf @ 100 mph
 Wind Speed, maximum 241.0 km/h | 149.8 mph

Dimensions

Depth 180.0 mm | 7.1 in
 Length 1864.0 mm | 73.4 in
 Width 302.0 mm | 11.9 in
 Net Weight 24.5 kg | 54.0 lb

Remote Electrical Tilt (RET) Information

RET System Teletilt®

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)



INCLUDED PRODUCTS

- DB380**
Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members
- DB5063**
Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

www.commscope.com/andrew

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 CN5677
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 SAN FRANCISCO, CA 94132



9	06/07/10	ISSUED FOR 100% ZONING REV.	JWH	-	-
8	06/03/10	ISSUED FOR 100% ZONING REV.	JA	-	-
7	01/07/10	ISSUED FOR 100% ZONING REV.	JA	-	-
6	11/12/09	ISSUED FOR 100% ZONING REV.	JA	-	-
5	11/03/09	ISSUED FOR 100% ZONING REV.	JA	-	-
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: HCL	DRAWN BY: HGL		

AT&T		
ANTENNA SPECIFICATIONS		
JOB NO.	DRAWING NUMBER	REV
CN5677	T03	9

Product Specifications



QBXLH-6565A-VTM

DualPol® Dual Band Quad Antenna, 824-960 MHz and 1710-2180 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt



- Four DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew Teletilt® remote control system

CHARACTERISTICS

General Specifications

Antenna Type DualPol® dual band, quad
 Brand DualPol® | Teletilt®
 Operating Frequency Band 1710 - 2180 MHz | 824 - 960 MHz

Electrical Specifications

Frequency Band, MHz	824-896	870-960	1710-1880	1850-1990	1920-2180
Beamwidth, Horizontal, degrees	66	60	60	60	60
Gain, dBd	11.9	11.9	14.4	14.7	14.9
Gain, dBi	14.0	14.0	16.5	16.8	17.0
Beamwidth, Vertical, degrees	16.0	15.0	7.1	6.5	6.0
Beam Tilt, degrees	0-15	0-15	0-8	0-8	0-8
Upper Sidelobe Suppression (USLS), typical, dB	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	28	25	25	27	25
Isolation, dB	25	30	30	30	30
VSWR Return Loss, db	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0	1.5:1 14.0
Intermodulation Products, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power, maximum, watts	250	250	250	250	250
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance, ohms	50	50	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground	dc Ground	dc Ground

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Product Specifications



QBXLH-6565A-VM

Mechanical Specifications

Color Light gray
 Connector Interface 7-16 DIN Female
 Connector Location Bottom
 Connector Quantity 8
 Wind Loading, maximum 442.4 N @ 150 km/h
 99.5 lbf @ 150 km/h
 Wind Speed, maximum 201.0 km/h | 124.9 mph

Dimensions

Depth 283.0 mm | 11.1 in
 Length 1323.0 mm | 52.1 in
 Width 581.0 mm | 22.9 in
 Net Weight 32.3 kg | 71.2 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator QBXLH-6565A-R2M
 Model with Factory Installed AISG 2.0 Actuator QBXLH-6565A-A4M
 RET System Teletilt®

Regulatory Compliance/Certifications

Agency
 RoHS 2002/95/EC
 China RoHS SJ/T 11364-2006
 Classification
 Compliant by Exemption
 Above Concentration Value (MCV)



INCLUDED PRODUCTS

- **DB5083**
Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members
- **DB380**
Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

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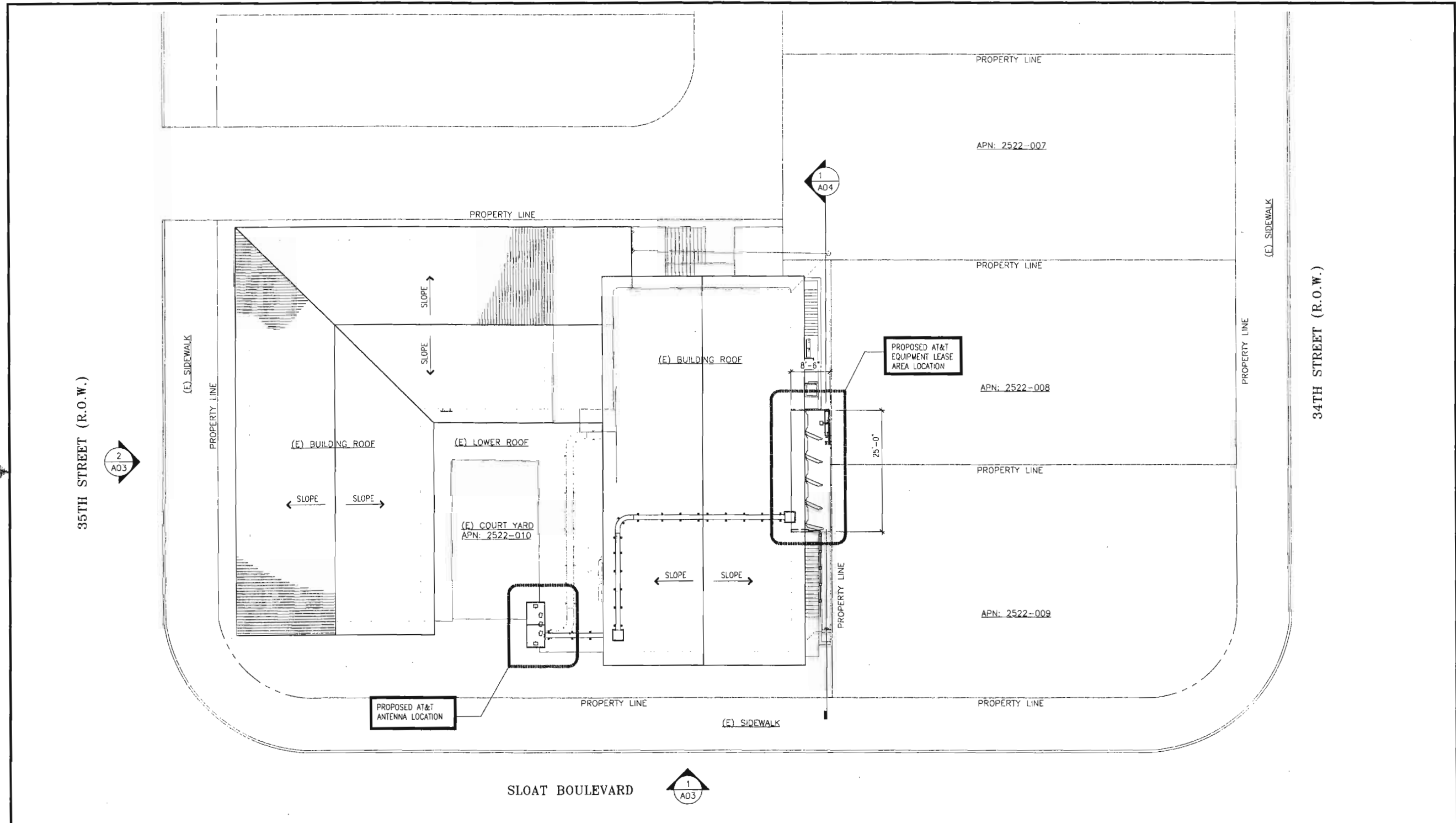


9	06/07/10	ISSUED FOR 100% ZONING REV.	JWH	--	--
8	06/03/10	ISSUED FOR 100% ZONING REV.	JA	--	--
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ANTENNA SPECIFICATIONS

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SITE PLAN

SCALE 1"=10'-0" 0 5' 10' 20' 1

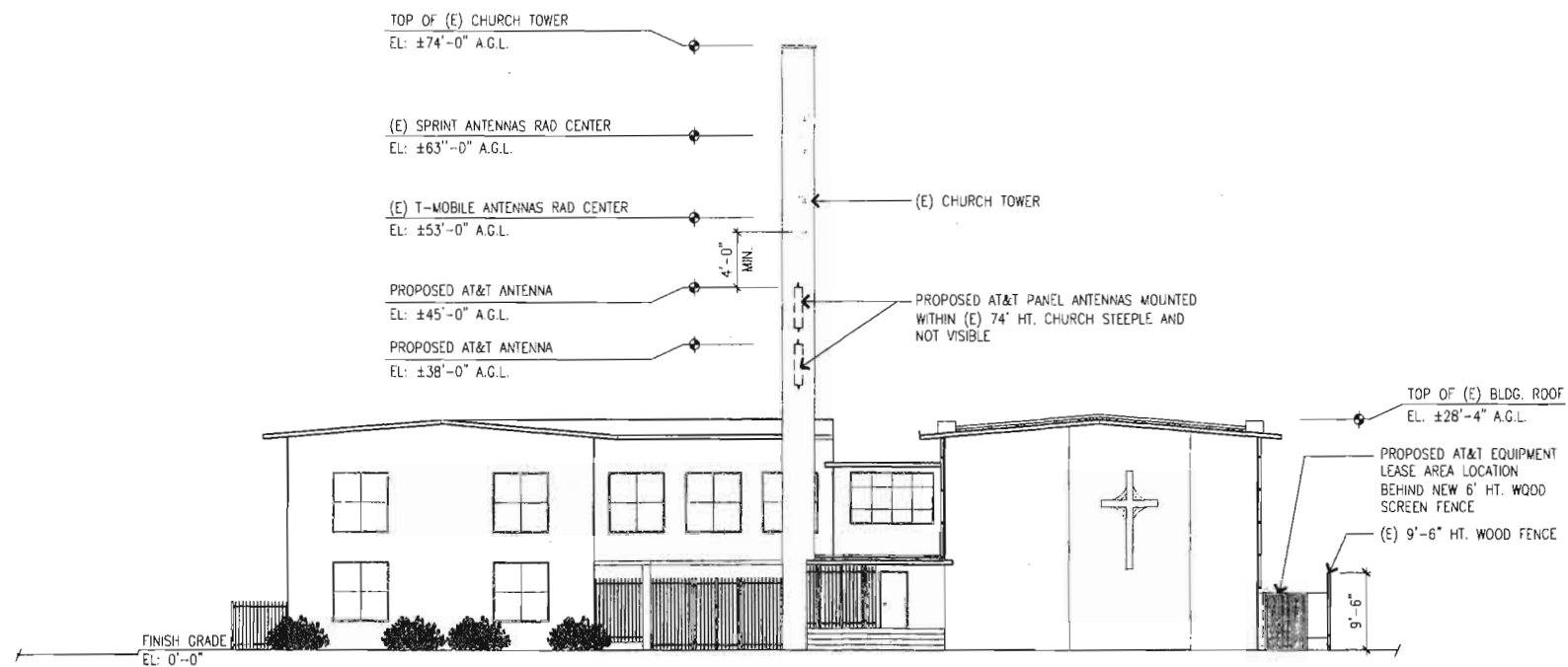
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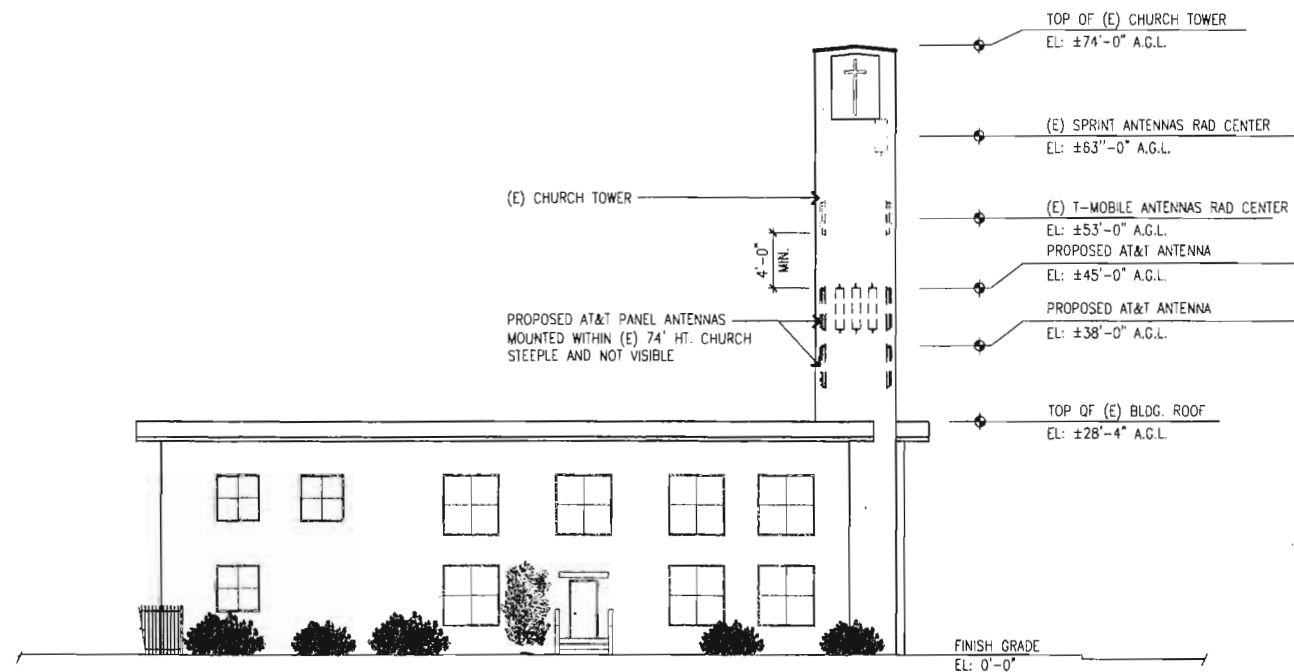
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SCALE: AS SHOWN		DESIGNED BY: HGL	DRAWN BY: HGL		

AT&T		
SITE PLAN		
JOB NO.	DRAWING NUMBER	REV
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SOUTH ELEVATION

SCALE 1"=10'-0" 0 5' 10' 20' 1



WEST ELEVATION

SCALE 1"=10'-0" 0 5' 10' 20' 2

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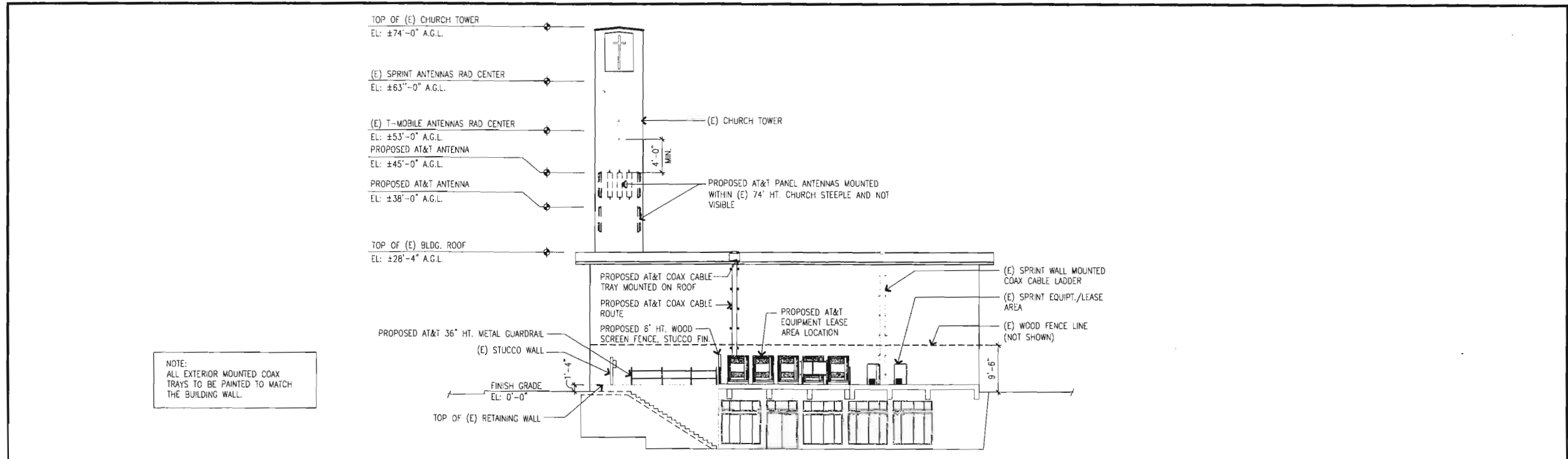
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5	11/03/09	ISSUED FOR 100% ZONING REV.	JA	--	--

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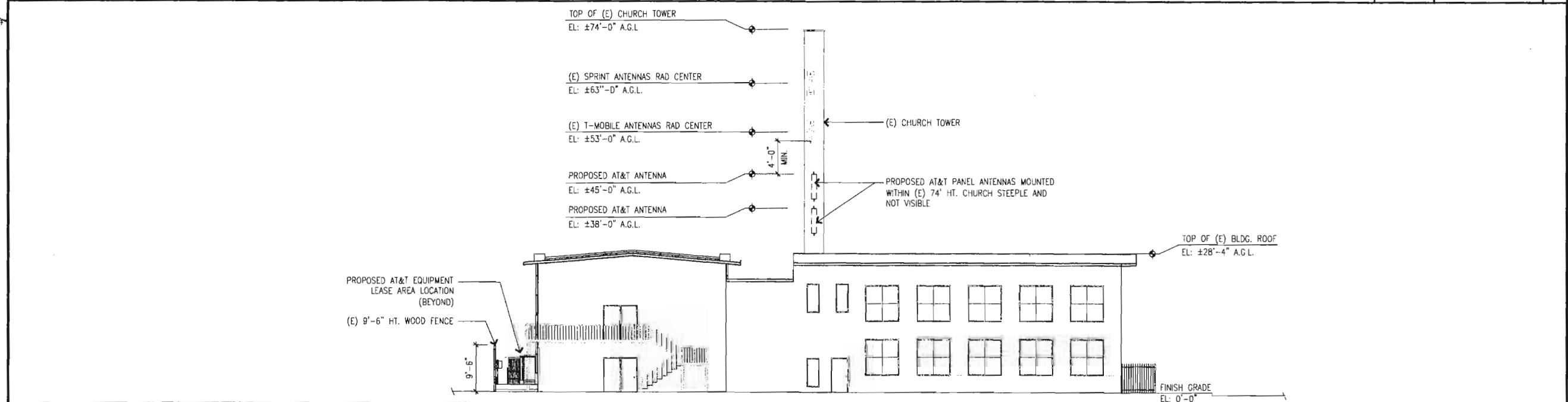
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ELEVATIONS		
JOB NO.	DRAWING NUMBER	REV
CN5677	A03	9



NOTE:
ALL EXTERIOR MOUNTED COAX
TRAYS TO BE PAINTED TO MATCH
THE BUILDING WALL.

EAST ELEVATION

SCALE	1"=10'-0"	0	5'	10'	20'	1
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NOTE:
ALL EXTERIOR MOUNTED COAX
TRAYS TO BE PAINTED TO MATCH
THE BUILDING WALL.

NORTH ELEVATION

SCALE	1"=10'-0"	0	5'	10'	20'	2
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NO	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: HGL	DRAWN BY: HGL		

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ELEVATION		
JOB NO.	DRAWING NUMBER	REV
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