



Wireless Telecommunication Facility

**Site Id: CN4989 – Shattuck Place & Rose Street
APN# 060-2455-064-01**

Address:

2095 Rose Street

Berkeley, CA 94709

REPRESENTATIVE:

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Introduction

New Cingular Wireless PCS, LLC, d/b/a AT&T Mobility (“AT&T”) is a registered public utility, licensed and regulated by the California Public Utilities Commission and the Federal Communications Commission (“FCC”). As a public utility, AT&T is mandated by the FCC to provide wireless communication services throughout California. AT&T is dedicated to providing customers with wireless technology designed to enrich their lives as their mobility is increasing. AT&T’s vision is to simplify the wireless experience for its consumer and business customers by offering easy-to-understand, affordable rate plans and excellent customer service. AT&T is bringing next-generation wireless data products - from corporate e-mail to downloadable ringtones - to customers nationwide through its advanced networks. The network performance goals include providing the best quality, lowest level of blocking, easy access to the network and continuous drop-free connections.

AT&T's wireless network is based on GSM and UMTS technology. These technologies are a wireless communication standard that require reusing specific frequencies across defined frequency bands. Due to the need for frequency reuse, GSM and UMTS require numerous sites to provide customers with suitable signal strength to deliver services. These sites are typically built on existing buildings, lattice towers and freestanding poles in order to provide a network of sites that provide seamless coverage over an area. Preference is given to co-locating with another carrier on an existing structure.

In addition to these 3G wireless service gap issues, AT&T is in the process of deploying its 4G LTE service in Berkeley with the goal of providing the most advanced personal wireless experience available to residents of the City. AT&T holds a license with the FCC and has a responsibility to utilize this spectrum to provide personal wireless services in the City. 4G LTE is capable of delivering speeds up to 10 times faster than industry-average 3G speeds. LTE technology also offers lower latency, or the processing time it takes to move data through a network, such as how long it takes to start downloading a webpage or file once you’ve sent the request. Lower latency helps to improve the quality of personal wireless services. What's more, LTE uses spectrum more efficiently than other technologies, creating more space to carry data traffic and services and to deliver a better overall network experience. This is particularly important in Berkeley because of the likely high penetration of the new 4G LTE iPad and other LTE devices.

Efforts are currently underway in Berkeley to establish the required infrastructure. AT&T has retained the services of Trillium to facilitate the land use entitlement process. AT&T is currently seeking the review and approval of a Conditional Use Permit and Design Review to allow the construction, operation, and maintenance of an unmanned wireless telecommunications facility in the North Shattuck Commercial District C-NS(H) zoning district located at 2095 Rose Street in Berkeley (“Proposed Facility”).

Background

AT&T serves millions of voice and data customers across the United States. Wireless communications continue to change the future of telecommunications with easy-to-use, lightweight and highly mobile communications devices including: smartphones, tablets, e-readers, and notebook computers. Wireless communications provide voice, e-mail,

texting and high-speed Internet access capabilities for customer's communications needs virtually anywhere and at any time.

The wireless network being developed by AT&T uses state of the art digital technology. The benefits include call privacy and security, improved voice quality, high-speed data, texting, video conferencing, visual voicemail, and an expanded menu of affordable products and services for personal and professional communications needs.

The Proposed Facility will enhance the area's public safety infrastructure by providing wireless communication services to the surrounding neighborhood and local community. The general public, police, fire fighters, and other emergency personnel rely heavily on wireless communications for fast and dependable communications at all times, but especially during natural disasters or other emergencies, such as earthquakes and fires.

Like other carriers in the industry, AT&T is working diligently to respond to the customer demand for mobile services, by expanding services to its customers from where they have historically used mobile phones, while traveling in the vehicle at their offices to where they are demanding more and more service in the residential communities, in-building coverage in their homes.

AT&T is requesting the review and the approval of a permit to allow the construction, operation, and maintenance of an unmanned wireless telecommunications facility ("WTF"). The project is proposed to close a significant service coverage gap and enhance personal wireless services in the area surrounding the site. AT&T's service coverage area in the city must be improved to handle the growing number of voice calls and wireless data usage. To remain competitive, AT&T must improve services in the areas where consumers are increasingly using their phones and data services.

The project consists of:

- Installation of twelve (12) panel antennas that will be located on poles on the existing building roof top and concealed within eight new radomes. The radomes would extend over the existing roof top at a top height of 40' 7" and match the height, color, and style of the existing T-Mobile installation on the rooftop.
- Additionally, AT&T proposes to install radio cabinets and supporting electrical, telecommunications, and cooling units housed inside new equipment enclosures at the rear of the building. These enclosures will not be visible from the street.

Once constructed and operational, the Proposed Facility will provide 24-hour service to customers seven (7) days a week. Apart from initial construction activity, an AT&T technician will service the facility on a periodic basis. It is reasonable to expect that routine maintenance/inspection of the facility will occur about once a month during normal working hours. Beyond this intermittent service, AT&T requires 24-hour access

to the Proposed Facility to ensure that technical support is immediately available if and when warranted.

Overview of Site Design/Location Criteria

The network of AT&T cell sites throughout the region is “location dependent,” meaning that there is a necessary and logical interrelationship between each proposed site. Eliminating or relocating a single cell site can lead to gaps in the system and prohibit AT&T from providing uninterrupted or reliable service to customers in a defined coverage area. Further, the elimination or relocation of a cell site will most often have a “domino” effect on other cell site locations and necessitate significant design changes or modifications to the network.

In identifying the proposed location, AT&T network deployment personnel have selected the Proposed Facility because it meets the technical objectives of RF engineering and provides the best site option with regard to other key criteria, including, but not limited to, accessibility, utility connections, zoning compatibility, minimal or no visual impact, liability and risk assessment, site acquisition, maintenance and construction costs. Further discussion of the site selection process is detailed in the Alternatives Analysis provided with this submittal.

Description of Coverage Area

AT&T’s objective in locating a WTF at this site is to provide improved in-building and in-transit wireless coverage. The Proposed Facility is needed to close a significant service coverage gap in personal wireless service and provide improved coverage in an area roughly bounded by Eunice Street to the north, Vine Street to the south, Grant Street to the west, and Euclid Avenue to the east. The Proposed Facility will improve coverage to the surrounding residential and commercial areas, including dozens of residentially-zoned city neighborhoods with hundreds of residences, key commercial zones, including C-N, C-NS and C-NS(H) districts, several restaurants, cafes and other businesses along and near Shattuck Avenue, a key commercial thoroughfare in the City, several places of worship, the Berkeley Art Center, Live Oak Park and the Berkeley Rose Garden. Please see the RF Statement and Coverage Maps provided with the submittal package.

Land Use Analysis

The site is located in the North Shattuck Commercial District Provisions C-NS(H) zoning district and the current use of the property is commercial offices for multiple tenants. AT&T proposes to install a roof-mounted WTF that will include stealthing of the proposed antenna equipment in the form of eight radomes. The installation and camouflaging treatment will match the existing T-Mobile installation on the building.

The height limit in the C-NS district is 35 feet, per Section 23E.48.070.C of the Berkeley Municipal Code. Per 23C.17.060.C of the Wireless Ordinance, Chapter 23C.17 of the Municipal Code, certain roof-mounted WTFs may extend up to 15 feet above the height limit of the district. The Proposed Facility will be roof-mounted on poles and camouflaged by radomes with a maximum height of 40 feet, 7 inches, in compliance with the Wireless Ordinance. The Proposed Facility also meets the design requirements of Sections 23C.17.070.A and 23C.17.070.B by utilizing a roof-mounted design (one of the

preferred design styles), with co-located antennas that will be completely screened and camouflaged in the proposed radomes. The Proposed Facility will be a collocation site because the building currently supports another WTF.

Site Development Standards and General Plan

The location, size, design, and operating characteristics of the Proposed Facility will not create unusual noise, traffic or other conditions or situations that may be objectionable, detrimental or incompatible with the surrounding land uses. The proposed use is consistent with this finding in that:

1. The proposed equipment associated with the telecommunication structure operates quietly or virtually noise free.
2. The equipment does not emit fumes, smoke, or odors that could be considered objectionable.
3. The Proposed Facility will be an unmanned and only requires periodic maintenance, which equates to approximately one trip per month. The Proposed Facility will not result in conditions or circumstances contrary to the public health, safety and the general welfare. The proposed use is consistent with this finding in that:

Unlike other land uses, which can be spatially determined through the General Plan or other land use plans, the location of WTFs are based on technical requirements such as network design criteria, service area, elevations, topography, heights of nearby structures, alignment with neighboring sites and customer demand.

The Proposed Facility will be unmanned, have no impact on circulation systems, and generate no noise, odor, smoke, or any other adverse impacts to adjacent land uses. The proposed facility will allow commuters and residents within the coverage area wireless access to the rapidly expanding communications infrastructure by providing voice and data transmission services not currently available. The installation of antenna sectors and transmission equipment will not result in any material changes to the character of the local community. The Proposed Facility will operate in full compliance with applicable state and federal laws, including the Telecommunications Act of 1996.

Regulating Agencies

AT&T is regulated by the FCC and is authorized to operate in the frequencies established for PCS operators. AT&T's WTFs operate at the lowest possible power levels and are well below established standards used by the FCC for safe human exposure to radio frequency electromagnetic fields. These standards have been tested and proved safe by the American National standards Institute (ANSI) and the Institute of Electrical and Electronics Engineers (IEEE). As explained in the RF engineering analysis provided by Hammett & Edison, Inc., Consulting Engineers, submitted with this Application, the Proposed Facility will operate well within (and actually far below) all applicable FCC public exposure limits.



Potential for Future Collocation

The lease agreement between AT&T and the property owner does not preclude collocation of other WTFs on the building.

Statement Related to Need

The Proposed Facility is necessary to fill a significant gap in the AT&T's service coverage; particularly in-building and in-transit coverage. As explained and illustrated in the RF statement submitted with this Application, the installation of this site will close a significant service coverage gap and improve the quality of service provided to AT&T customers within the city.

Please see Alternatives Analysis attached for discussion of alternative sites considered.

Description of Services

The Proposed Facility will provide in-building and in-transit service coverage for 3G and 4G LTE services to residents and visitors to the City of Berkeley.

Visibility

The proposed (12) new panel antennas are located on roof-mounted poles within eight new screened enclosures designed as radomes and will match the style, height and finish of the four existing radomes currently installed and housing WTFs on the same roof. Eight (8) of the antennas are proposed to be located in four radomes on the roof along the east portion of the building located near the intersection of Rose Street and Shattuck Avenue. The four (4) other antennas will be located in four radomes on the roof along the west portion of the building nearest the parking area. The antennas and related antenna equipment will be fully screened from view. The equipment cabinets will be located outdoors, at the rear of the building. The equipment cabinets will not be visible from the public right-of-way and will be screened from the neighboring residential property by the existing wooden fence.

Third Party Evaluation Statement

AT&T has provided a deposit with the application package for reasonable, actual cost and administrative fees for the hiring of an independent qualified engineering consultant to evaluate any technical aspect of the proposed site. AT&T will provide the engineer necessary information to perform the evaluation.

Noise Data

A deposit has been included with the submittal package for preparation of an acoustic report by the City appointed consultant.

Assurance of Removal

Prior to issuance of a building permit to erect or install the proposed facility, AT&T shall secure a bond or provide financial assurances, in a form acceptable to the City Manager, for the removal of the facility in the event it is abandoned or the approval is otherwise terminated.