

T-MOBILE

**PREVIOUSLY CONSIDERED CANDIDATES FOR SITE SF13054A
(also known as “Belmont Water Tank” @ 1906 Lyon Avenue)**

Regular Meeting of City of Belmont Planning Commission

Tuesday, February 3, 2009

One Twin Pines Lane, Second Floor

Belmont City Hall

January 26, 2009

To: Belmont Property Owners
Fr: Ben Davies (of Permit Me, Inc.) on behalf of T-Mobile
Re: Proposed T-Mobile Wireless Facility at 1906 Lyon Avenue (Belmont Water Tank)

Dear Ladies and Gentlemen:

As you are probably aware, this T-Mobile proposed facility was continued by the Belmont Planning Commission at its November 18, 2008 meeting. The project will be heard again at the **February 3, 2009** Planning Commission Hearing.

T-Mobile's proposed design for this project is to flush mount the 6 antennas to the side of the water tank. None of the antennas would extend above the tank, and all the antennas would be at a height of 44' feet or less, eliminating the need for a variance. Four antennas would be at the height of 43'9", with two antennas installed at a height of 43'0".

During the November 18, 2008 meeting it was cited that alternative site information was needed.

Attached is an Alternative Site Analysis (with coverage maps) showing other locations T-Mobile considered for its proposed facility, and why they were discarded. This documentation has been submitted to the Planning Commission for its review.

The coverage maps provided in the Alternative Site Analysis should be self-explanatory. Green, yellow, and grey show the effectiveness of coverage provided in different areas by the sites (in-building, in vehicle, on-street). But you can e-mail me at bdavies69@yahoo.com if you have any questions.

Thank you.

Sincerely,

A handwritten signature in black ink that reads "Ben Davies". The signature is written in a cursive, slightly slanted style.

Ben Davies
Permit Me, Inc.
for T-Mobile

I. Introduction to T-Mobile

T-Mobile and the rest of America's wireless industry are working to respond to an unprecedented demand for mobile services. To meet its customer demand, T-Mobile is constantly improving its coverage areas and expanding its network capacity to handle the growing number of customer calls and data transmissions.

Wireless phones are also integral to public safety. Each day there are more than 200,000 wireless 9-1-1 calls and that number grows daily as more people used their wireless phones to call for emergency help, to save lives and to help fight crime.

This proposal is designed to fill a coverage gap for T-Mobile's network and to enhance services along El Camino Real in Belmont and also the area between Alameda De Las Pulgas and El Camino Real.

T-Mobile takes very seriously the responsibility to its customers for improving and expanding its network for the benefit of the customer. In order to provide this level of service, T-Mobile has set a standard for measurable signal strength for inside a building or structure. This level of coverage guarantees reliable signal strength inside buildings to provide excellent voice quality in residential neighborhoods and commercial areas.

The natural and man-made environment, including terrain, vegetation, and buildings, all present engineering challenges that limit the availability of appropriate locations. This presentation reviews some of the wireless facility candidates that T-Mobile investigated to offer an understanding to the residents and the City of Belmont of how the current location was chosen.

II. Radio Frequency Engineering Criteria

The proposed wireless facility at the water tank is designed to bring coverage to the City of Belmont, specifically the areas along El Camino Real and the area between Alameda De Las Pulgas and El Camino Real. Currently, this area has poor signal coverage. A wireless phone user could make a call standing outside on the street, but not from a car or from inside a building. T-Mobile's proposed site will provide reliable signal strength inside buildings and provide solid voice quality for the caller.

III. Wireless facility Candidates Considered with Drive Test / Coverage Maps

The prior candidates with coverage maps available:

- Power poles, such as the one located at 1802 Bayview.
- Grace Mission Church, 751 Alameda de las Pulgas.
- Collocation at wireless facility at 1999 Notre Dame (power pole).

Power Pole at 1802 Bayview Avenue

The attached coverage map shows coverage that would be attained by placing antennas near the top of an existing nearby JPA pole at 1802 Bayview Avenue. This proposal would add coverage to the close surrounding area, but it in no way comes close to coverage objective obtained by the water tank proposal. Additionally, obtaining ground space for equipment next to JPA pole poses a problem.

Grace Mission Church

The attached coverage map shows coverage that would be attained by placing antennas near the roof height of the church. Like the JPA power poles, this proposal would add coverage to the close surrounding area, but it no way comes close to coverage objective obtained by the water tank proposal.

Collocation at 1999 Notre Dame Avenue

Existing wireless antennas are already operating at this pole. Like the other alternative sites, this proposal would add some coverage to the surrounding area, but does not come close to the coverage provided by the chosen water tank. An engineer's evaluation might reveal that additional antennas and equipment would require additional structural support.

Keep in mind that while choosing the feasibility of a wireless facility, other candidates are dismissed before coverage maps can be completed. This is the case with uninterested landlords, or where a site cannot provide adequate power or otherwise would not permit construction at first glance.

Attachments

- "Candidates Comparison" (various coverage maps)
- "Coverage Maps" (includes missed, dropped call data)