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AT&T Project Name: Quest Diagnostics

County of Orange
Application for Planning Review
Project Information, Findings, Justification – Letter of Explanation

AT&T is requesting approval of a Planning Application for the construction and operation of an unmanned wireless point to point microwave backhaul installation, and presents the following project information for your consideration:

Project Location

33608 Ortega Highway, San Juan Capistrano, CA 92675
APN: 125-140-19
Zoning: R/OSP "Research/Open Space Park"

Project Representative

Kathi Ruehle
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AT&T Contact

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Project Description

AT&T proposes to build an unmanned wireless point to point microwave backhaul installation consisting of a proposed (New) (1) 70ft tall (top of branches) AT&T Faux Mono-Eucalyptus Pole, (New) (1) Equipment Cabinet, (New) (1) 3' Microwave Antenna, (New) 2 Coax Cables, (New) 2 Fiber Cables, (New) 2 UBT-S Radios, (New) 200A electrical meter, (New) telco and power service from (Existing) POC to (New) Lease Area, and a (New) 30'x30' CMU enclosure to match existing wall enclosure on site. The total lease area will be 30'x30' (including UG footing) = 900 SF + above ground equipment as a Faux Mono-Eucalyptus Pole. AT&T will work with the County and the community to install this facility as disguised and least obtrusive as possible and that will improve communication services for the Quest Diagnostic business.

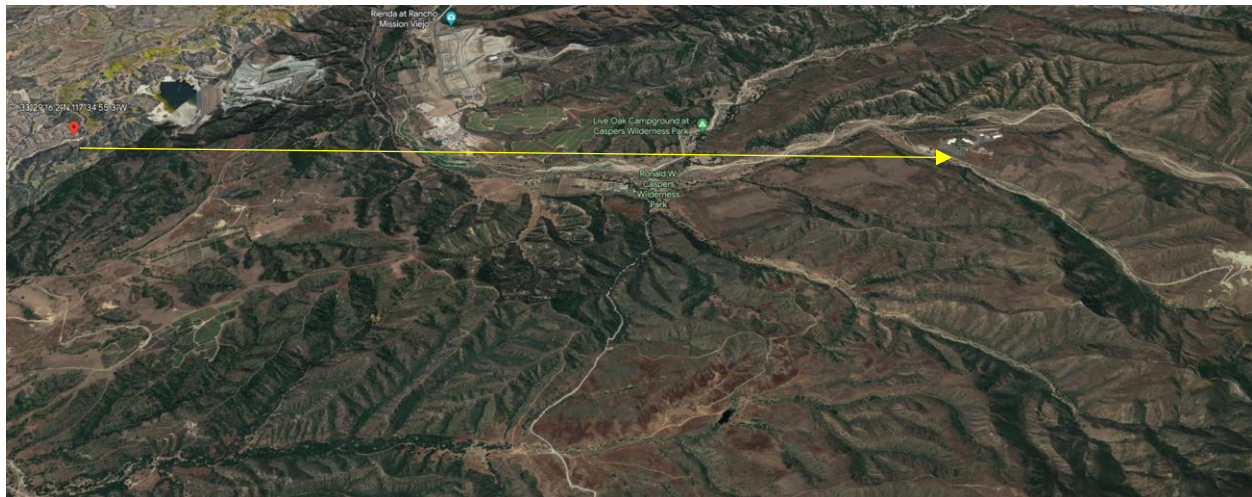
Color and Materials

- The Faux Mono-Eucalyptus Pole will consist of Eucalyptus-foiled branches and will be a mix of 4-10 foot lengths. Branches will begin at the 15' AGL and continue to the top of the pole with an overall density of 3 branches per foot.
- Brown paint will conceal the pole from 15' to the pole top.
- The equipment enclosure will be constructed with a stucco finish to match the existing perimeter wall.
- Colors will be set to match any existing structures to better camouflage the design. Colors will also be painted in non-reflective to lessen the reflection and avoid any brightness hazards.

Project Objectives

Quest Diagnostics has purchased two 1G ADE (AT&T Dedicated Ethernet) for network connectivity with Alternate Wire Center diversity from AT&T. In order to complete the path with Alternate Wire Center diversity, radio build / connectivity is required. Note that if one ADE path were to fail for any reason, the alternate path would still function to provide connectivity to the customer. Therefore, having an alternate cable path protects against loss of data or workflow. To fulfil this objective, a New Microwave Antenna must be installed at the 62.7' Level on the proposed Faux Mono-Eucalyptus Pole to accommodate the above described equipment point to point microwave backhaul network needs for Quest Diagnostics. The 62.7' level allows for a clear line of sight over the existing hilly terrain to the receiving Microwave Antenna end for a point to point microwave backhaul network solution proposed here. The change in elevation from the Microwave Antenna proposed location of 621.3' AMSL pointing to 882' AMSL at the receiving end for the proposed Microwave elevation will allow for a clear line of sight over the highest ridge line in the path.

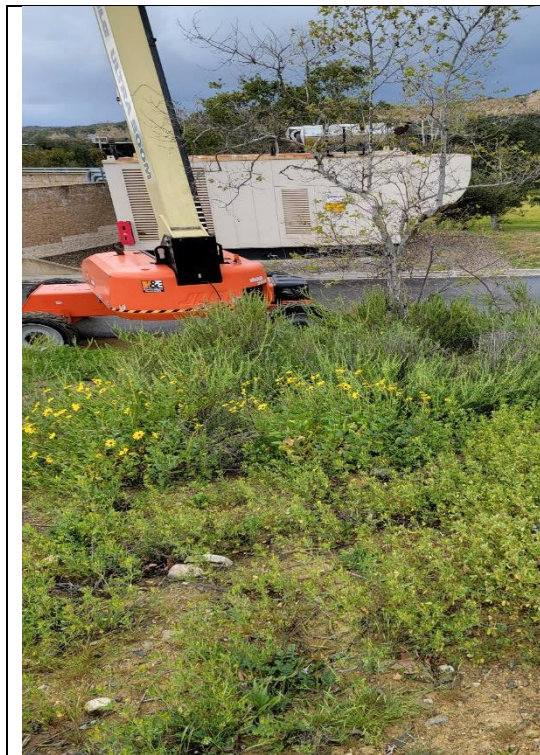
Photo shows receiving end (red marker-at left) of microwave path location proposed (yellow "arrow"):



Receiving Point – Talega Reservoir



Additional photos of hills in obstruction of path to clear for line of sight for this proposed Microwave Antenna requiring the proposed microwave height are shown below from the Quest Diagnostics location:



Looking SW from Proposed Compound (Towards Receiving Site Location)



Looking SW from Proposed Compound area at 210 degrees (Towards Receiving Site Location)

Benefits

A dedicated communication channel increases the quality of communication to meet the network demands of Quest Diagnostics and will resolve their connectivity issues. Also, typically a wireless carrier requires the installation of a cell site within a specified area to close a “significant gap in coverage.” In this specific case, AT&T has designed the proposed faux mono-eucalyptus pole for installation to be able to handle future collocation of equipment by other Carriers as currently designed if this should meet others coverage needs in this vicinity of Ortega Hwy in San Juan Capistrano.

Findings/Burden of Proof

The site for the proposed use is adequate in size and shape and set back from public view.

AT&T is proposing a stealth design for this project which is disguising a 3’ Microwave Antenna for the required point to point microwave backhaul installation onto a Faux Mono-Eucalyptus Pole and in accordance with the County of Orange Code and Ordinances. The microwave antenna and associated equipment are disguised and screened from public view. The requested height of the microwave antenna design is the minimum height needed to supply point to point network connectivity for Quest Diagnostics network needs. AT&T uses the most advanced technology to design the equipment compound to blend the architecture with the surrounding community and landscaping and thereby minimizing the visual impact of the site.

AT&T Company Information

AT&T is one of the fastest growing nationwide service providers offering all digital voice, messaging, and high-speed data services to nearly 30 million customers in the United States.

AT&T is a “telephone corporation”, licensed by the Federal Communications Commission (FCC) to operate in the 872-1962 MHz and 827-1877 MHz and 10.11.7 GHz frequencies, and state-regulated Public Utility subject to the California Public Utilities Commission (CPUC). The CPUC has established that the term “telephone corporation” can be extended to wireless carriers, even though they transmit signals without the use of telephone lines.

AT&T will operate this facility in full compliance with the regulations and licensing requirements of the FCC, Federal Aviation Administration (FAA) and the CPUC, as governed by the Telecommunications Act of 1996, and other applicable laws.

Aerial Photo of Site

An aerial photograph of the Project site and surrounding properties within the R/OSP “Research/Open Space Park” area of the Quest Diagnostics parcel is provided below:



The enclosed application is presented for your consideration. AT&T requests a favorable determination and approval of this Planning Application to build this proposed microwave point to point backhaul system. Please contact me at (949) 637-9674 or at Kathi.Ruehle@mastec.com for any questions or requests for additional information.

Respectfully submitted,

Kathi Ruehle

Kathi Ruehle, MasTec Network Solutions
Authorized Agent for AT&T