

Chesterfield

ANNING AND

DEP

Memorandum Department of Planning and Public Works

- To: Planning and Public Works Committee
- From: Kristian Corbin, Project Planner
- Date: December 8, 2011
- Re: T.S.P. 38-2011 AT&T (17259 Wild Horse Creek Road): A request to obtain approval for a Telecommunication Facility Siting Permit for a collocation of additional antennas and equipment on an existing stealth tower in a "NU" Non-Urban District-zoned property located at 17259 Wild Horse Creek Road approximately 550 feet east of the intersection of Wild Horse Creek Road and Long Road (18U420104).

<u>Summary</u>

AT&T has requested an amendment to a telecommunication siting permit to allow for the location of upgraded antennas to facilitate 4G LTE data service on a stealth tower located approximately 550 feet east of the intersection of Wild Horse Creek Road and Long Road (18U420104).

City of Chesterfield Ordinance 2391, which governs telecommunications and facilities siting, requires that the Planning Commission provide a venue for public hearing for Telecommunications Siting Permits. Please note, the Planning Commission does not provide a recommendation to the City Council, but rather generates a list of issues during the hearing. At the public hearing on October 24, 2011, there were no issues identified with this request.

Attached are copies of the site plan, elevations, boundary plat, and propagation study.

Respectfully Submitted,

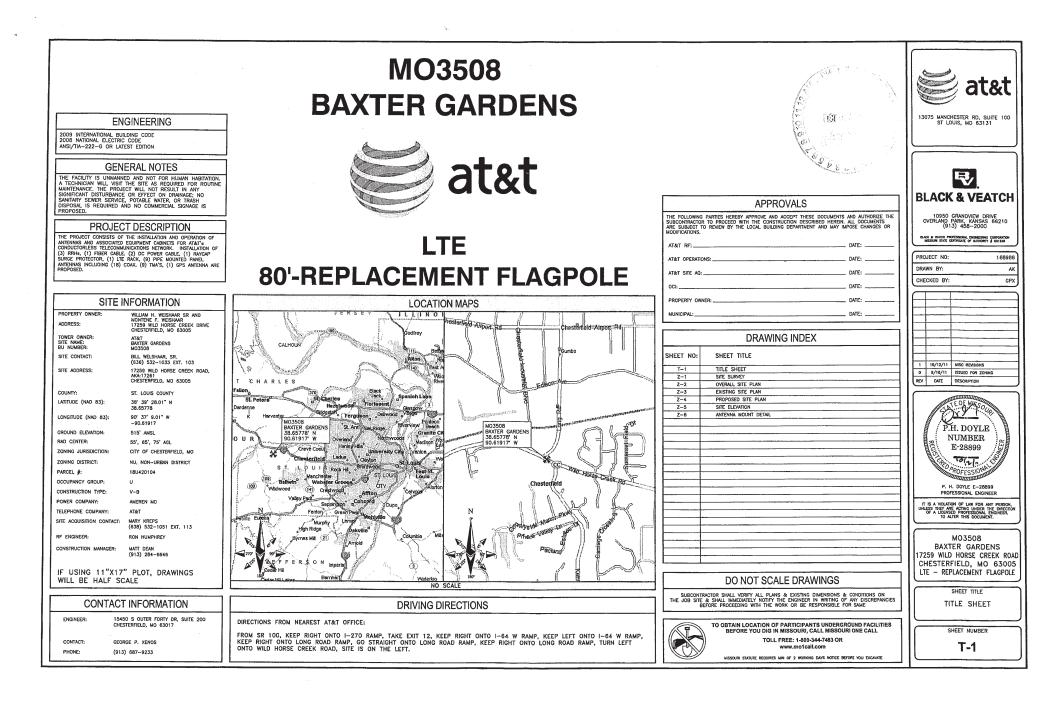
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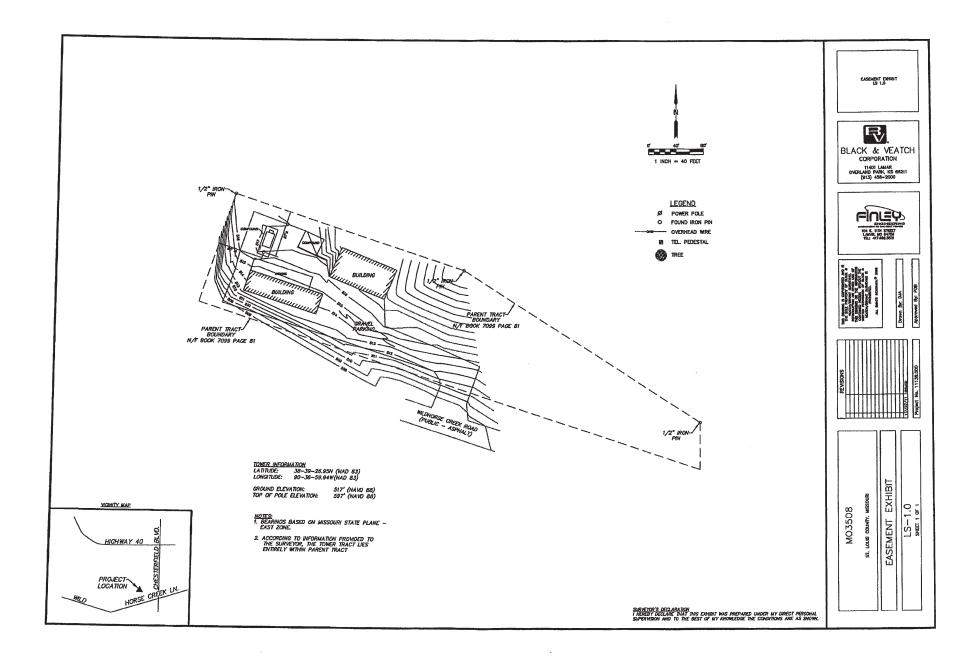
Kristian Corbin Project Planner

TSP 38-2011 AT&T (17259 Wild Horse Creek Road) Planning and Public Works Committee December 8, 2011

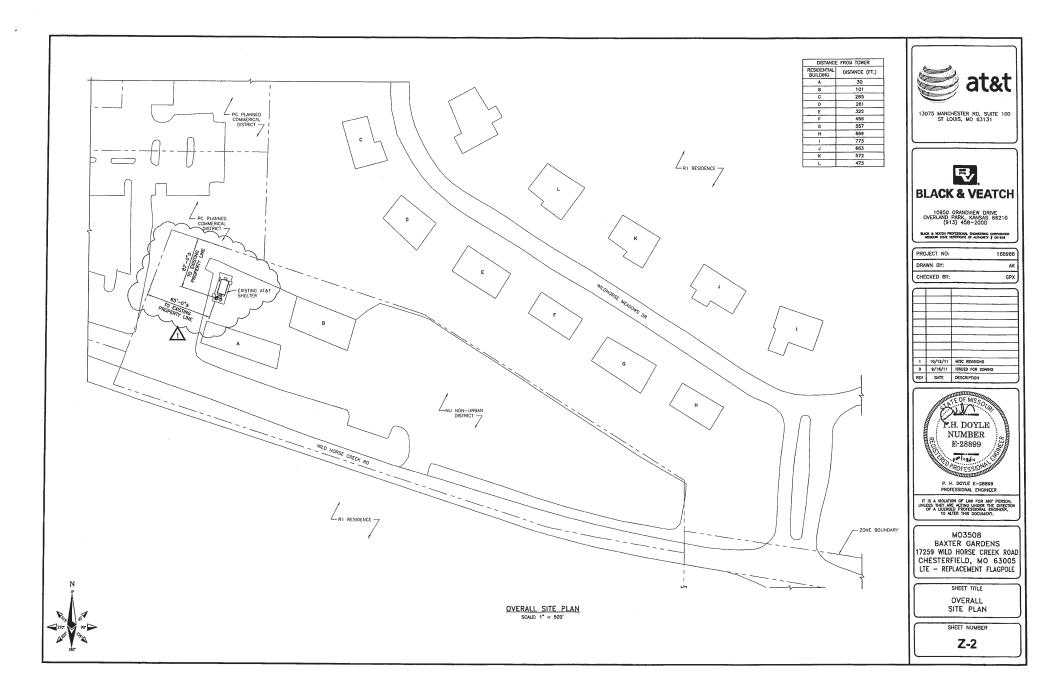
Michael G. Herring, City Administrator
Rob Heggie, City Attorney
Michael O. Geisel, Director of Planning & Public Works
Aimee Nassif, Planning & Development Services Director

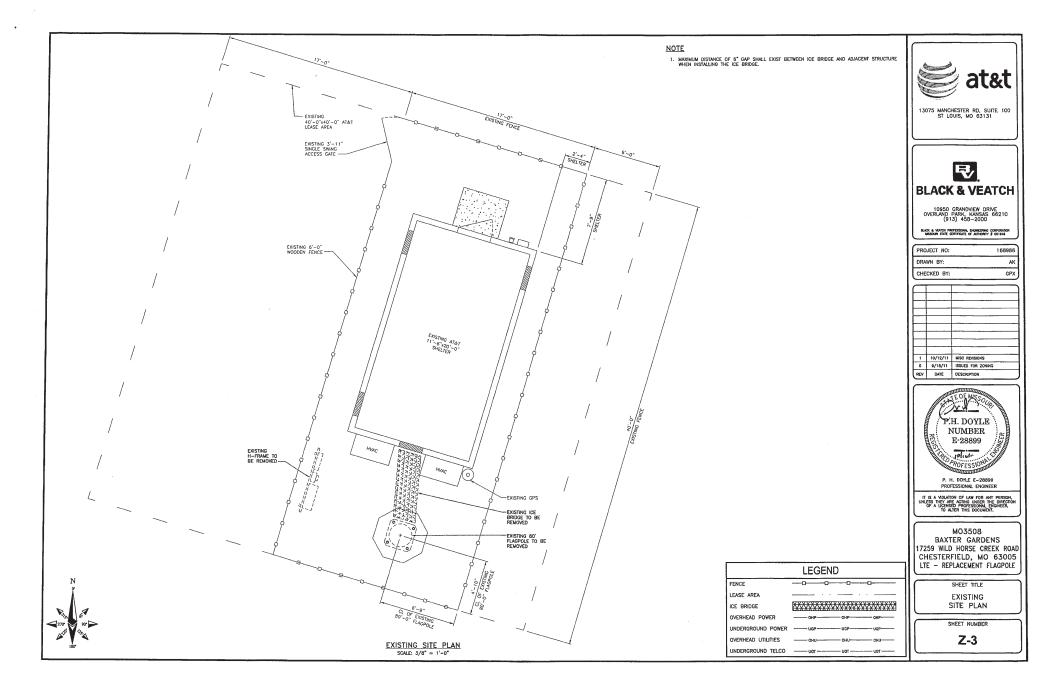
Attachments: AT&T 4G LTE Upgrade Packet

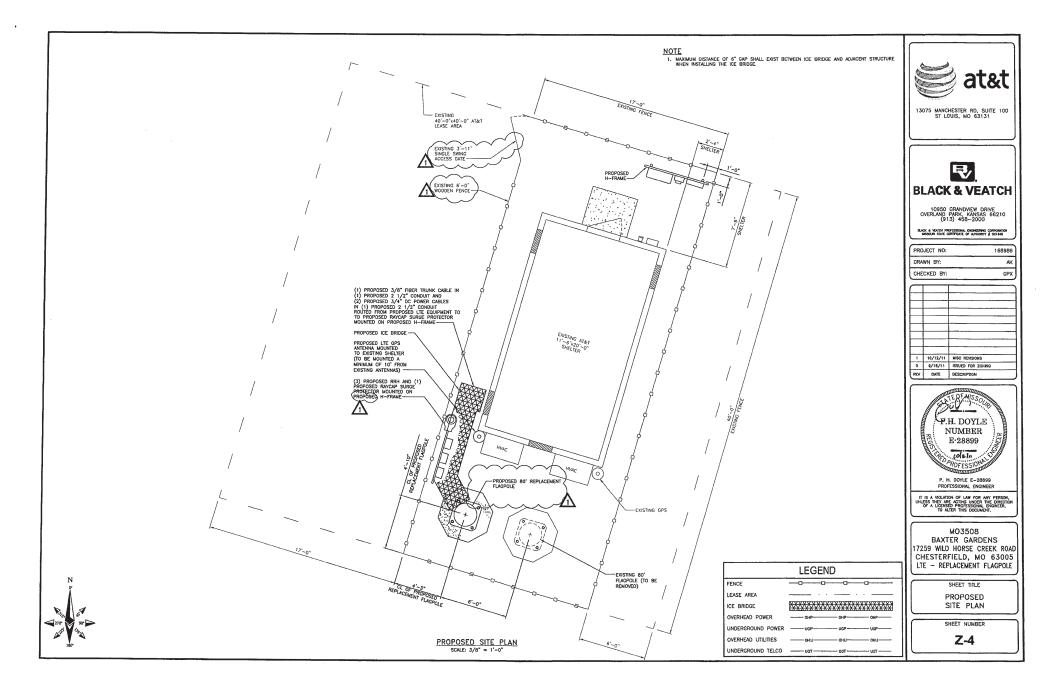


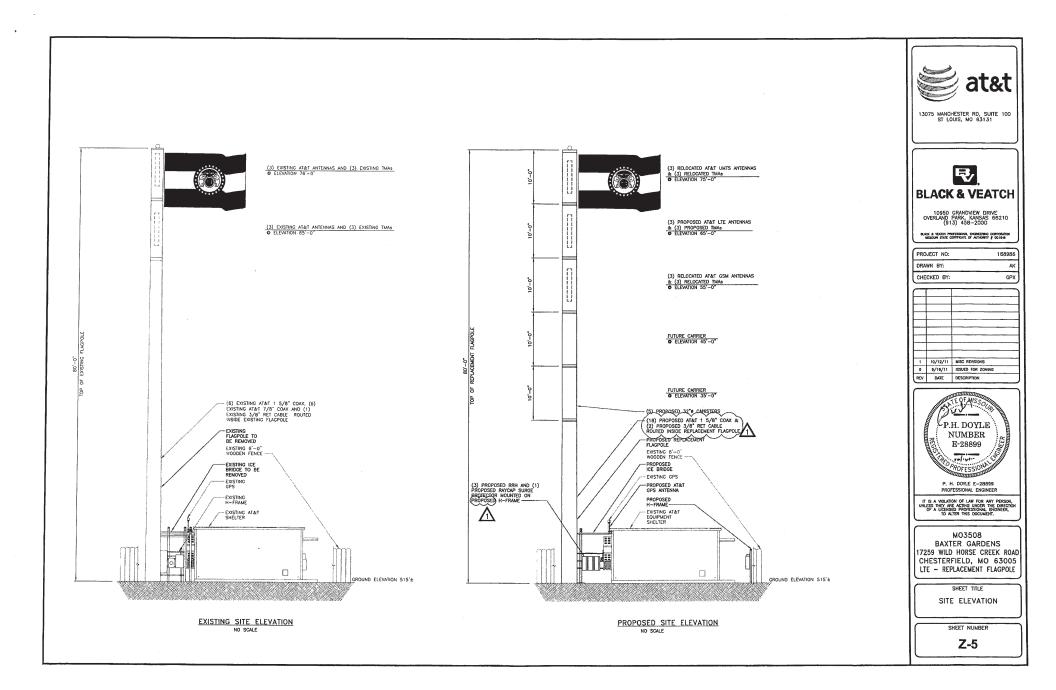


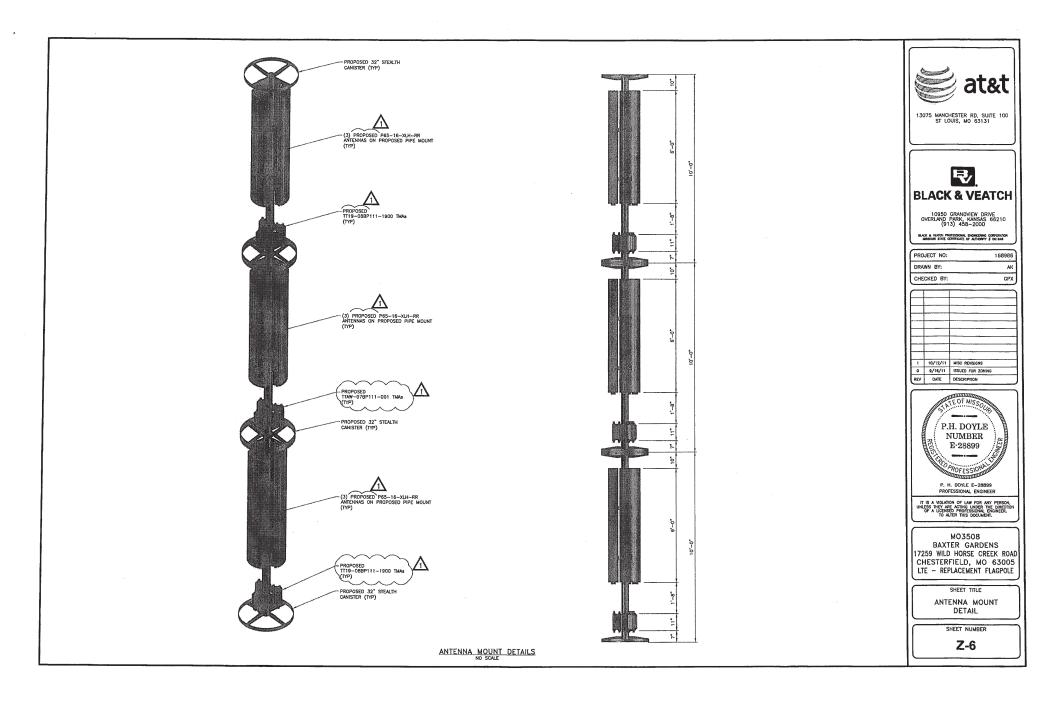
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September 7, 2011

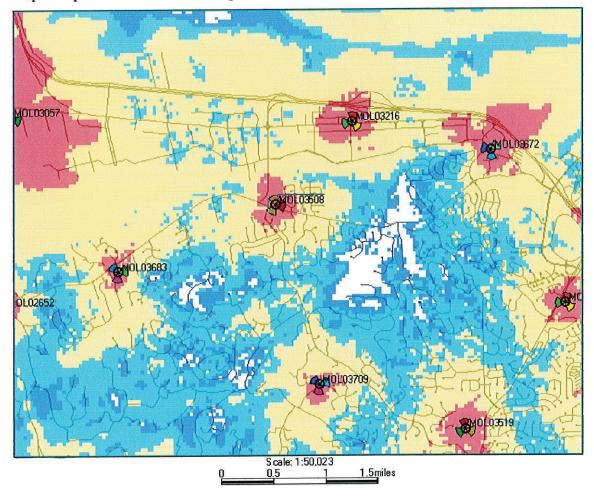
The following is a brief explanation of why AT&T Mobility is proposing to have the current wireless communication facility at 17261 Wild Horse Creek Road modified. This facility is labeled as MOL03508 on Map 1. Currently this facility is only capable of broadcasting our older technologies.

This facility currently is broadcasting our "2G" technology (called GSM) and our "3G" technology (called UMTS). Normally each technology uses its own antennas and equipment. The modification we are proposing is to add our "4G" technology (called LTE). Perhaps you have seen all the television commercials from various wireless carriers talking about their 4G systems. 4G, short for 4th generation of wireless technology, allows wireless carriers to provide much faster data speeds than our current networks. 4G is only for data at this point. All voice calls will still be served on older technologies. Currently AT&T still has the fastest data network. Although as other carriers implement and optimize their 4G networks we expect to lose that advantage and eventually fall behind other carriers unless we also launch our 4G network. The proposed modifications will allow us to implement our 4G technology by using additional antennas and equipment.

Because of national E911 requirements, this site needs to run other technologies. The 4G technology is not capable of handling voice calls at this time and all 911 calls made from a wireless device will be routed through our older technologies. Normally each technology uses its own antennas and equipment. The new 4G technology is on lower frequencies and therefore require slightly larger antennas than what we currently use. Because of this there is no way to fit these antennas in the existing enclosures. The best way to get these antennas concealed from view is to replace the current pole with another pole.

This plan will have no effect on our coverage for current technologies. Map 1 below shows the proposed coverage for our 4G network in the area. AT&T Mobility has acceptable coverage in most of the surrounding area. Because 4G is a data only service the different signal levels don't indicate whether service exists or not. In general on 4G the stronger the signal (to a point) the faster the data rates will be. It is expected that red, yellow and light blue will have data speeds faster than our 3G technology. The dark blue will likely have data speeds nearly identical to the 3G technology.

Map 1 Proposed AT&T "4G" coverage



Ron Humphrey

Radio Frequency Design Engineer AT&T Mobility Division





PHOTO SIMULATION

SITE NUMBER:

PROPOSED WIRELESS COMMUNICATIONS FACILITY

M03508 (8747)

SITE LOCATION MAP



SITE NAME:	BAXTER GARDENS
SITE ADDRESS:	17259 WILD HORSE CREEK ROAD Chesterfield, MO 63005
DATE:	09/15/11
APPLICANT:	AT&T WIRELESS
CONTACT:	GEORGE XENOS
	BLACK & VEATCH
	(913) 687-9233

Image from GoogleMaps 2011@

