TOWER
ENGINEERING
PROFESSIONALS

April 15, 2014

Styers, Kemerait & Mitchell, PLLC
1101 Haynes Street, Suite 101
Raleigh, North Carolina 27604

Attention: Ms. Karen Kemerait

Subject: Balloon Test Letter Report
Proposed 300-ft (315-ft w/ appurtenances) Self-Support Communications Tower
American Tower Site: Pleasant Hill NC
American Tower Site #: 282331
AT&T Site #: 368-770
Pittsboro, NC (Chatham County)

Dear Ms. Kemerait:

Tower Engineering Professionals, Inc. (TEP) of Raleigh, NC completed a balloon test for a proposed 300-ft (315-ft with appurtenances) self-support communications tower facility that will be located on NC Highway 902, southwest of the Town of Pittsboro in Chatham County, NC. The proposed tower facility will be located on a parcel of real estate owned by Edward H. Straughn that is identified as Parcel ID # 12512. The balloon flight was conducted for the proposed tower height of 300-ft AGL on the morning of April 10, 2014 in order to assess the potential visual impact that the proposed communications tower may have on the surrounding area of potential effect (APE).

The balloon test was performed on April 10, 2014 from ~9:30AM to 10:15AM. The balloon test photographs were taken between ~9:45AM-10:00AM. The weather at the time of the balloon flight consisted of temperatures ranging from ~50° to ~60° Fahrenheit. The atmospheric conditions were clear with 1 to 3 mph winds from the southwest during hour balloon flight. TEP personnel deployed an approximately 10' long x 4'-1" wide yellow blimp with blue fins at an elevation of 300-ft above ground level (AGL). Based on the minimal amount of displacement of the blimp associated with the above referenced wind speeds at the time of the balloon test photographs, it is the opinion of TEP that the balloon flight is an accurate depiction of the proposed tower elevation AGL. The photographs were taken with a Nikon D3000 SLR Digital Camera set at 35mm, in an attempt to most accurately mimic the view of the human eye.

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gswearingen@tepgroup.net

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Balloon Flight

The balloon flight was conducted at the proposed tower centerline, approximately 500-ft east of a portion of NC Highway 902. According to the construction drawings provided to TEP by the client dated March 13, 2014 the proposed tower will be located within a pasture at:

Latitude: N 35° 41' 21.664" (NAD 83)
Longitude: W 79° 16' 15.983" (NAD 83)
Elevation: ~428.8-ft AMSL

Balloon Flight	*Approximate Location:*	*Distance from proposed structure:*
Photo #1	Fred Tysor Road, southeast of Green Acres (N35° 40' 34.80", W79° 16' 34.67")	~0.94 miles
Photo #2	Pleasant Hill Church Road, southeast of Landrum Creek Drive (N35° 41' 16.15", W79° 16' 50.85")	~0.56 miles
Photo #3	5301 NC Hwy 902 (N35° 41' 30.68", W79° 15' 24.93")	~0.81 miles
Photo #4	5929 NC Hwy 902 (N35° 41' 33.46", W79° 16' 1.81")	~0.30 miles
Photo #5	Intersection of Carillion Drive & Alex Cockman Road (N35° 41' 50.80", W79° 16' 23.59")	~0.56 miles
Photo #6	2979 Alex Cockman Road (N35° 41' 30.13", W79° 16' 15.40")	~0.15 miles

TEP personnel obtained numerous photographs from each of the aforementioned locations in an attempt to provide an accurate depiction of the view of the proposed tower facility from the surrounding area. Photographs were taken for the balloon flight and their corresponding locations are depicted on the additional photo location map provided. Twenty-four (24) photographs were obtained from multiple locations surrounding the proposed tower site; of the twenty-four (24) photographs, six (6) were selected for inclusion in this report. Additionally, four (4) photographs were selected and photo simulations were rendered depicting the proposed 300-ft (315-ft with appurtenances) self-support tower from the desired locations.

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Please don't hesitate to contact me if there are any questions or concerns with regards to the balloon test report for the proposed undertaking.

Regards,

George T. Swearingen, III
Division Manager - Environmental

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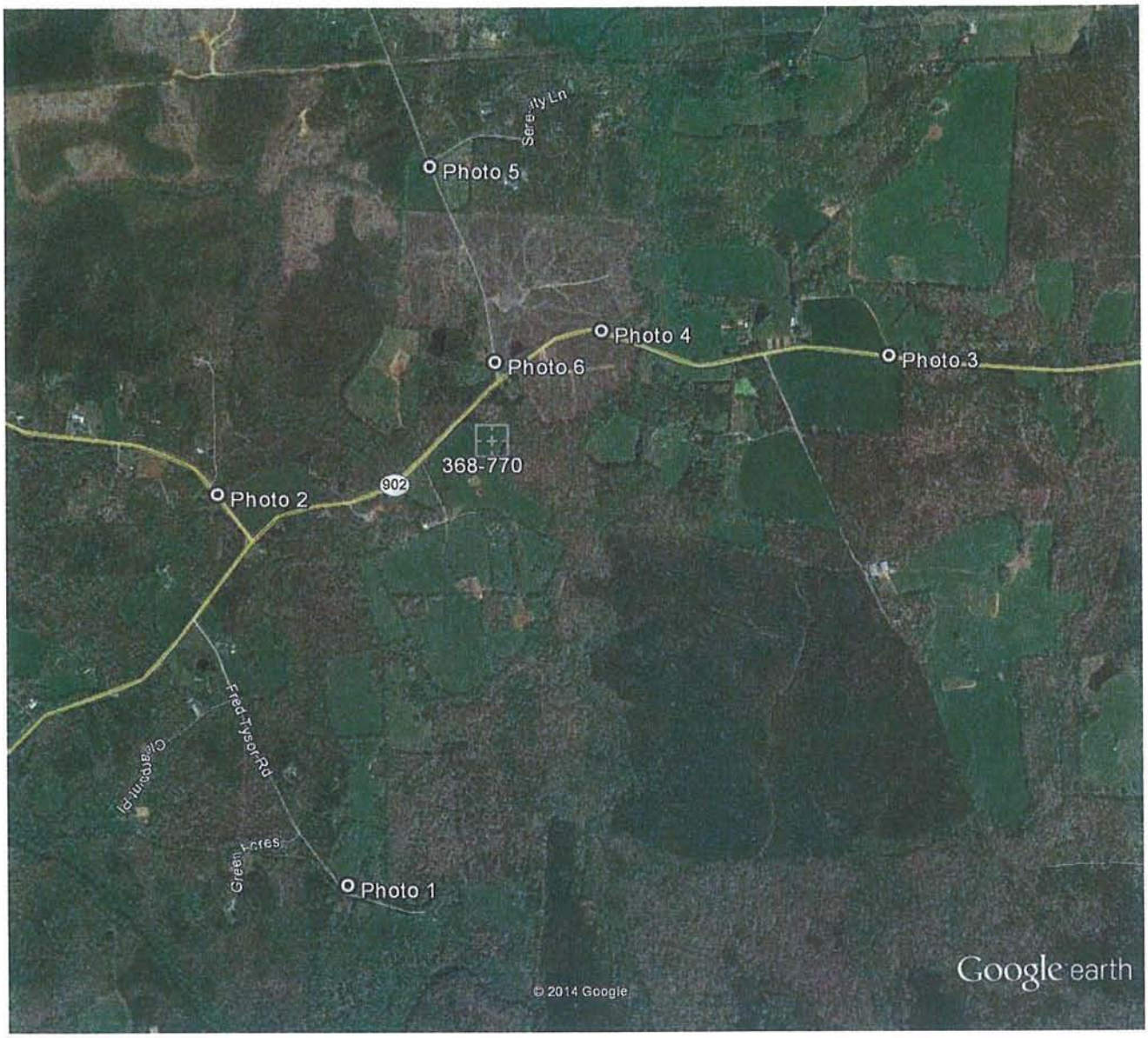
Pleasant Hill NC (ATC#-282331) (AT&T#-368-770)

Balloon Test Results		
Photo Location	**Location**	**Result**
1	Fred Tysor Road, southeast of Green Acres (N35° 40' 34.80", W79° 16' 34.67")	Visible
2	Pleasant Hill Church Road, southeast of Landrum Creek Drive (N35° 41' 16.15", W79° 16' 50.85")	Visible
3	5301 NC Hwy 902 (N35° 41' 30.68", W79° 15' 24.93")	Visible
4	5929 NC Hwy 902 (N35° 41' 33.46", W79° 16' 1.81")	Visible
5	Intersection of Carillion Drive & Alex Cockman Road (N35° 41' 50.80", W79° 16' 23.59")	Visible
6	2979 Alex Cockman Road (N35° 41' 30.13", W79° 16' 15.40")	Visible



Google earth

miles 1

km 1

PHOTO LOCATION 1

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 1 (SEE MAP BELOW)
~N35° 40' 34.80", W79° 16' 34.67"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 2

CURRENT VIEW WITH BALLOON

AMERICAN TOWER

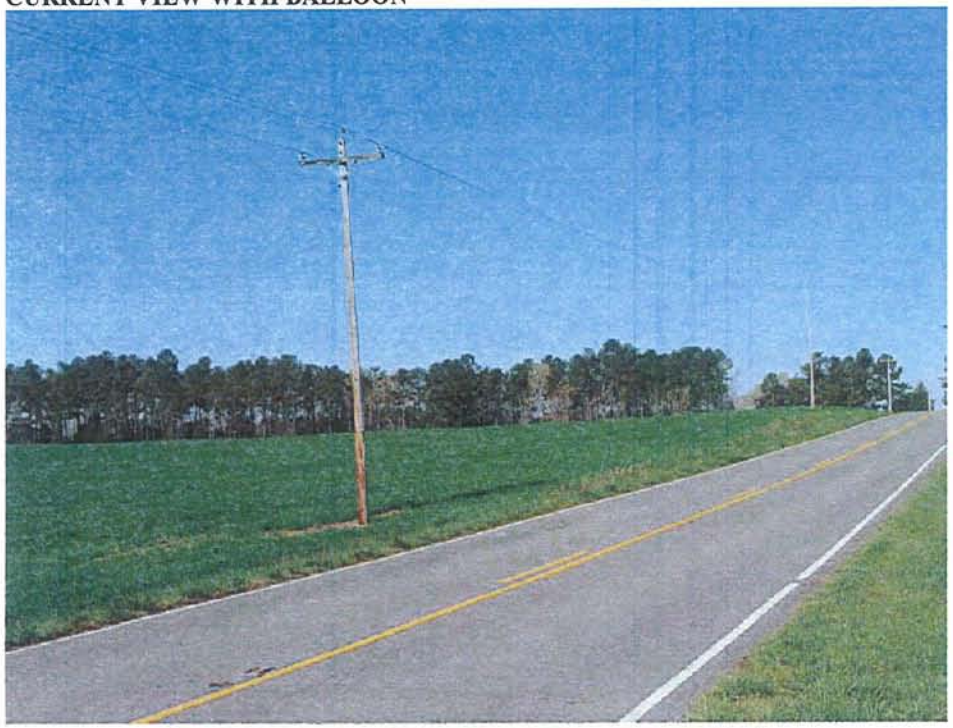
SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 2 (SEE MAP BELOW)
~N35° 41' 16.15", W79° 16' 50.85"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 3

CURRENT VIEW WITH BALLOON



AMERICAN TOWER

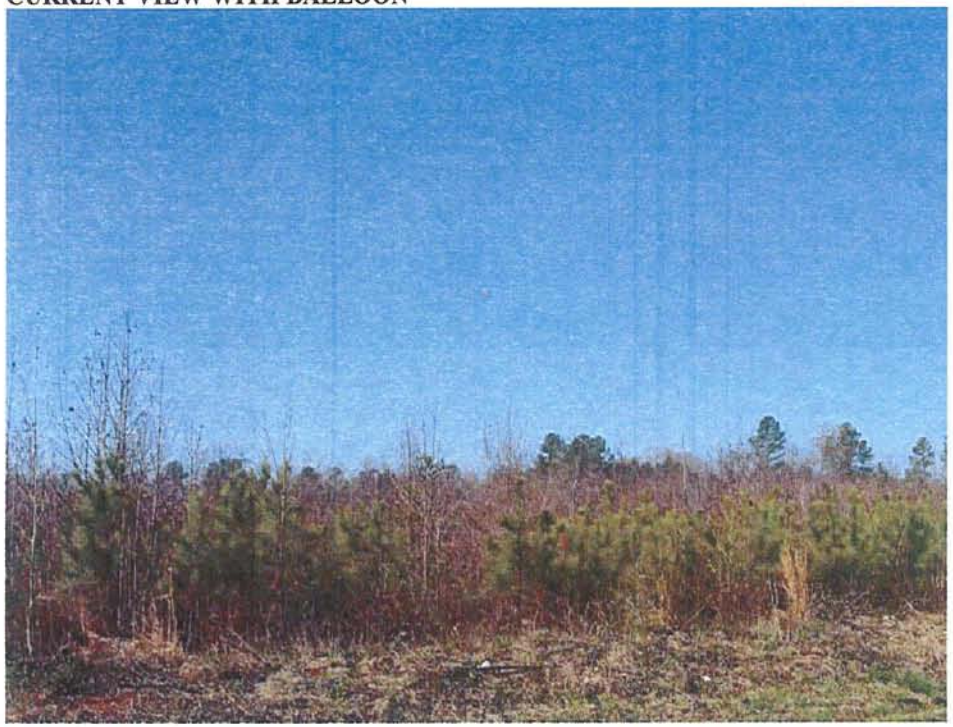
SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 3 (SEE MAP BELOW)
~N35° 41' 30.68", W79° 15' 24.93"

PHOTO RENDERING

PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 4

CURRENT VIEW WITH BALLOON



BALLOON VISIBLE

AMERICAN TOWER

SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 4 (SEE MAP BELOW)
~N35° 41' 33.46", W79° 16' 1.81"

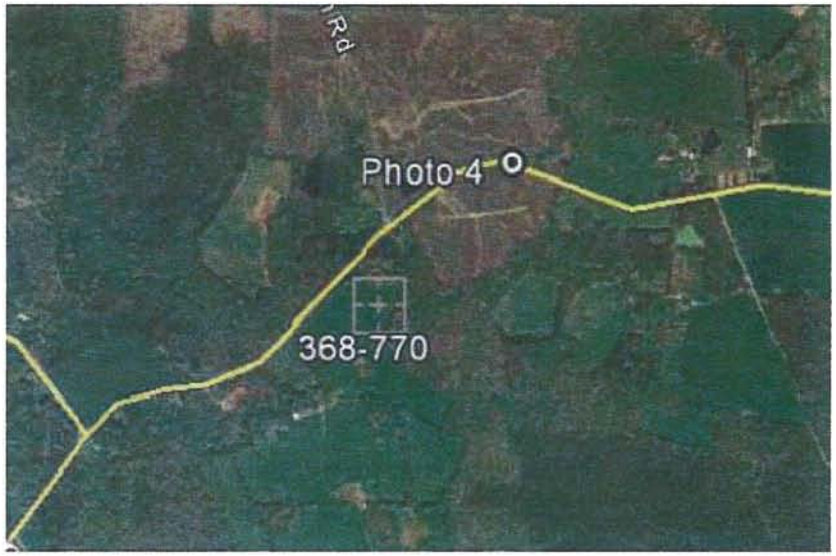
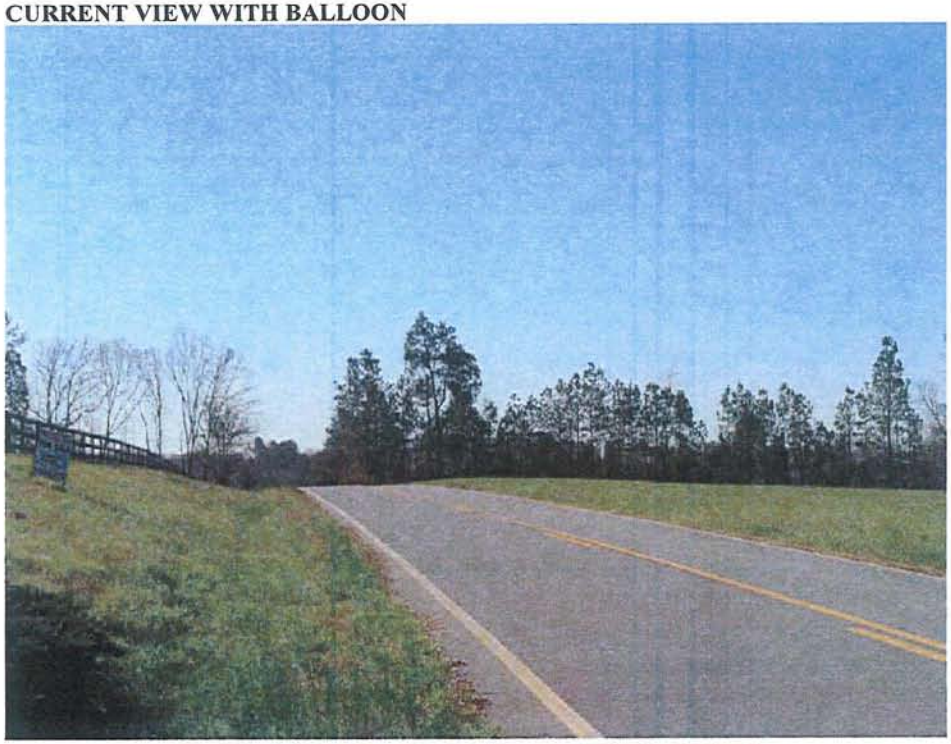


PHOTO PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 5

CURRENT VIEW WITH BALLOON



AMERICAN TOWER

SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 5 (SEE MAP BELOW)
~N35° 41' 50.80", W79° 16' 23.59"

PHOTO RENDERING

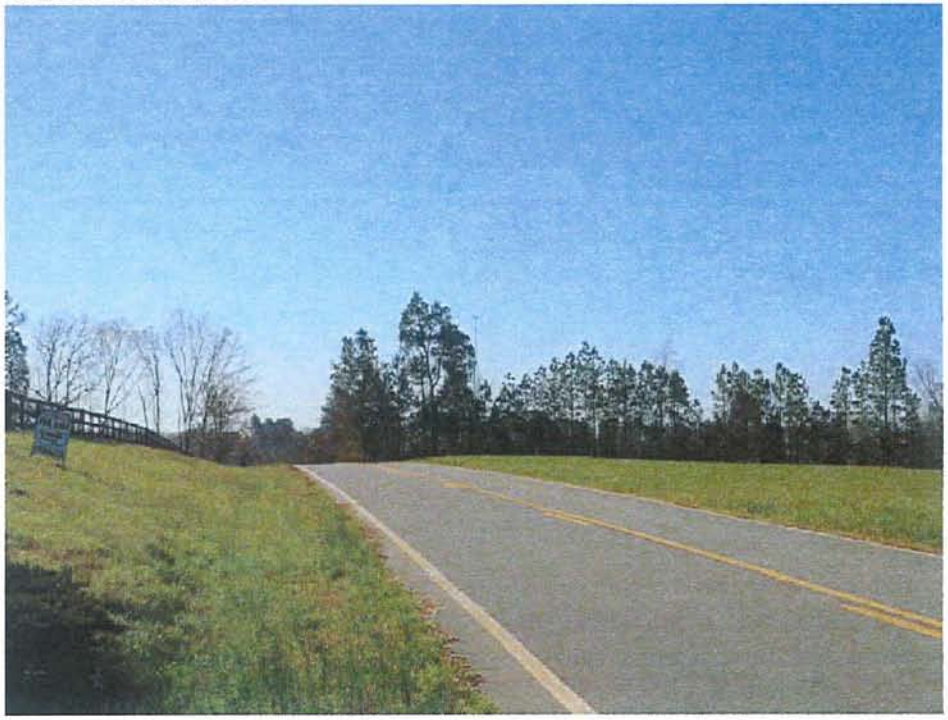
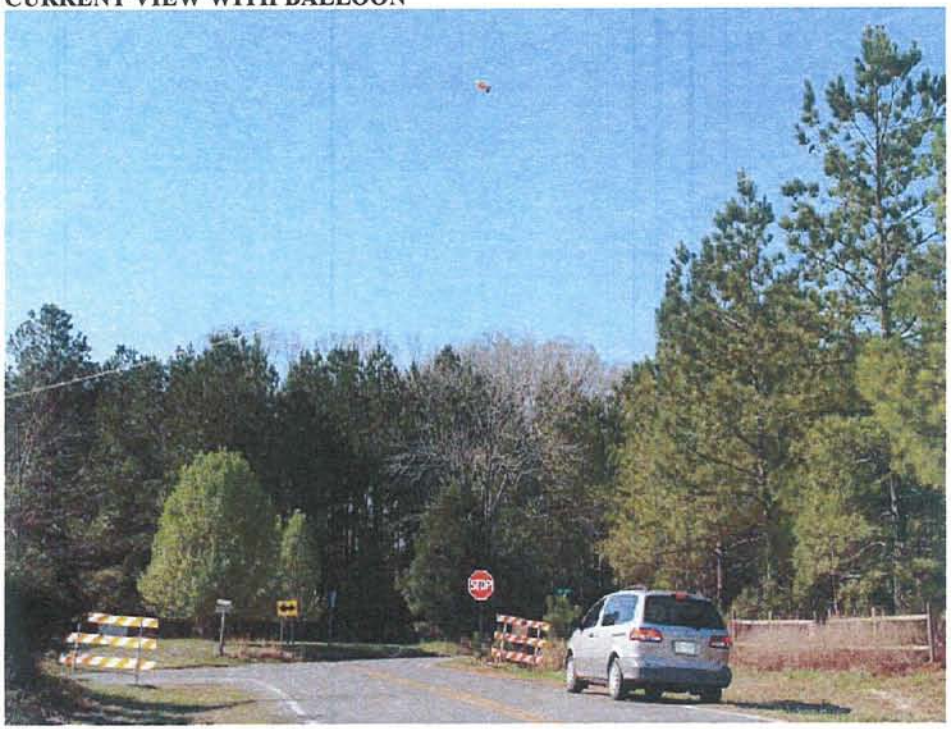


PHOTO RENDERING PROVIDED BY TOWER ENGINEERING PROFESSIONALS, INC.

PHOTO LOCATION 6

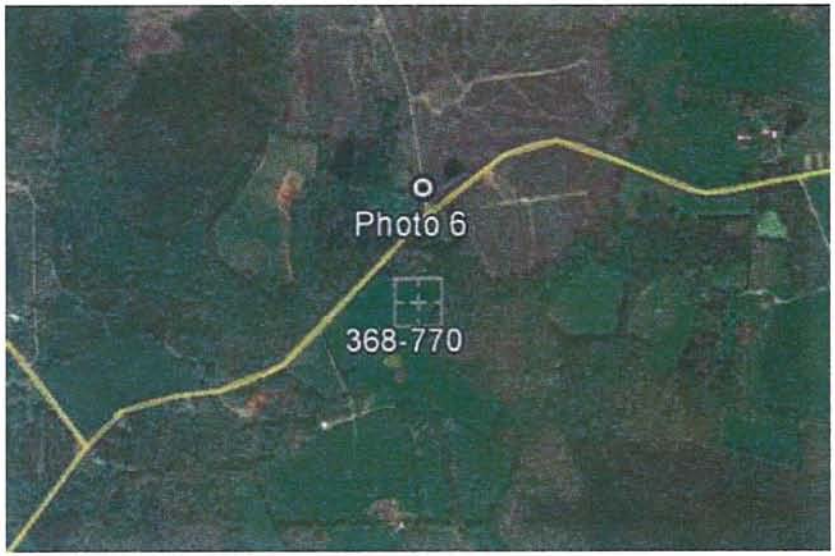
CURRENT VIEW WITH BALLOON



BALLOON VISIBLE

AMERICAN TOWER

SITE NAME: PLEASANT HILL NC
AT&T SITE#: 368-770 - ATC SITE #: 282331
SITE ADDRESS:
NC HWY 902 – N35° 41' 21.664", W79° 16' 15.983"
VIEW FROM:
PHOTO LOCATION 6 (SEE MAP BELOW)
~N35° 41' 30.13", W79° 16' 15.40"



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