

State of Florida
Telecommunications Site Review
Equipment Upgrade Version



Consultants, Inc.

7050 West Palmetto Park Road, #15-652
Boca Raton, FL 33433
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January 2, 2015

Mr. W. Scott Stoudenmire
City of Coconut Creek
Deputy Director
Department of Sustainable Development
4800 West Copans Road
Coconut Creek, Florida 33063

RE : Verizon Wireless – ATC/Spectrasite Coppola
6933 NW 39 Avenue, Coconut Creek, FL

Dear Mr. Stoudenmire,

At your request, on behalf of the City of Coconut Creek, Florida (“City”), CityScape Consultants, Inc. (“CityScape”), in its capacity as telecommunications consultant for the City, has considered the merits of an application submitted by Verizon Wireless (“Applicant”), to make certain modifications to their wireless system on an existing communications tower facility, owned by American Tower Company (“Tower Owner”) and located at 6933 NW 39 Avenue, Coconut Creek; see *figure 1*.

The subject facility is a total of one hundred fifty-two (152) feet and currently accommodates facilities for Nextel, Sprint, MetroPCS, Verizon and Aoptix Technologies. In 2014, Nextel, SprintPCS and MetroPCS have previously upgraded their existing network systems at this location. Verizon is proposing to make similar upgrades to their antennas and ground equipment for the purpose of improved technologies that will allow for advanced services for Verizon customers within the subject area; see *figure 2*.

Currently Verizon’s existing antenna configuration consists of nine (9) total platform mounted antennas, located at a RAD center of one hundred forty-eight (148) feet. This application consists of removing six (6) antennas (2 per sector) and installing six (6) new antennas (2 per sector). The final proposed antenna configuration will remain at nine (9) antennas (3 per sector), see *figure 3*. Interconnecting the ground equipment with the antennas is twelve (12) existing 1-5/8 coaxial feed lines and the Applicant will add six (6) new 1-5/8” coax feed lines for a total of eighteen (18) feed lines. The Applicant confirms that all existing and new feed lines will be installed inside the pole shaft.

The Applicant stated that there are no required electrical connections to the existing load. Based on the Construction Drawings submitted by the Applicant, cabinet #1 will be replaced with a new equipment cabinet that will be contained within the existing ground compound, see *figure 4*. Therefore this application is confirmed as a tower upgrade, qualified under the Middle Class Tax Relief and Job Creation Act of 2012 (“The Act”) and shall be afforded streamlined processing and approval.

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The previous structural analysis provided by MetroPCS for their equipment upgrades on the tower was in April 2014 and stated the tower stress rating was at 57% capacity. The Applicant submitted an updated Structural Analysis Report; dated June 19, 2014, which shows the tower and foundation, will remain of sufficient capacity to support all existing equipment along with the proposed new equipment upgrades. The revised tower loading capacity will be 61% out of a maximum of 105% allowable; see *figure 5*.

The Applicant did not provide a new FCC compliance statement but American Tower Company as the facility owner has on file an existing and acceptable letter of compliance for the subject site stating the facility will comply with all Federal Communications Commission (FCC) standards regarding human exposure to radio frequency (RF) energy and concerns regarding RF interference with other radio services; see *figure 6*.

The undersigned has specifically evaluated the Applicant's proposal and found that the proposed tower modifications will conform to federal and State of Florida guidelines and City of Coconut Creek Ordinance. All submitted designs and plans for the facility upgrade have been developed according to accepted practices of RF propagation engineering and the persons completing all work are sufficiently qualified within their disciplines.

Based on the Applicant's submittals and appropriate confirmation the application is qualified under The Act; CityScape, recommends this application from Verizon Wireless should be approved with the following conditions:

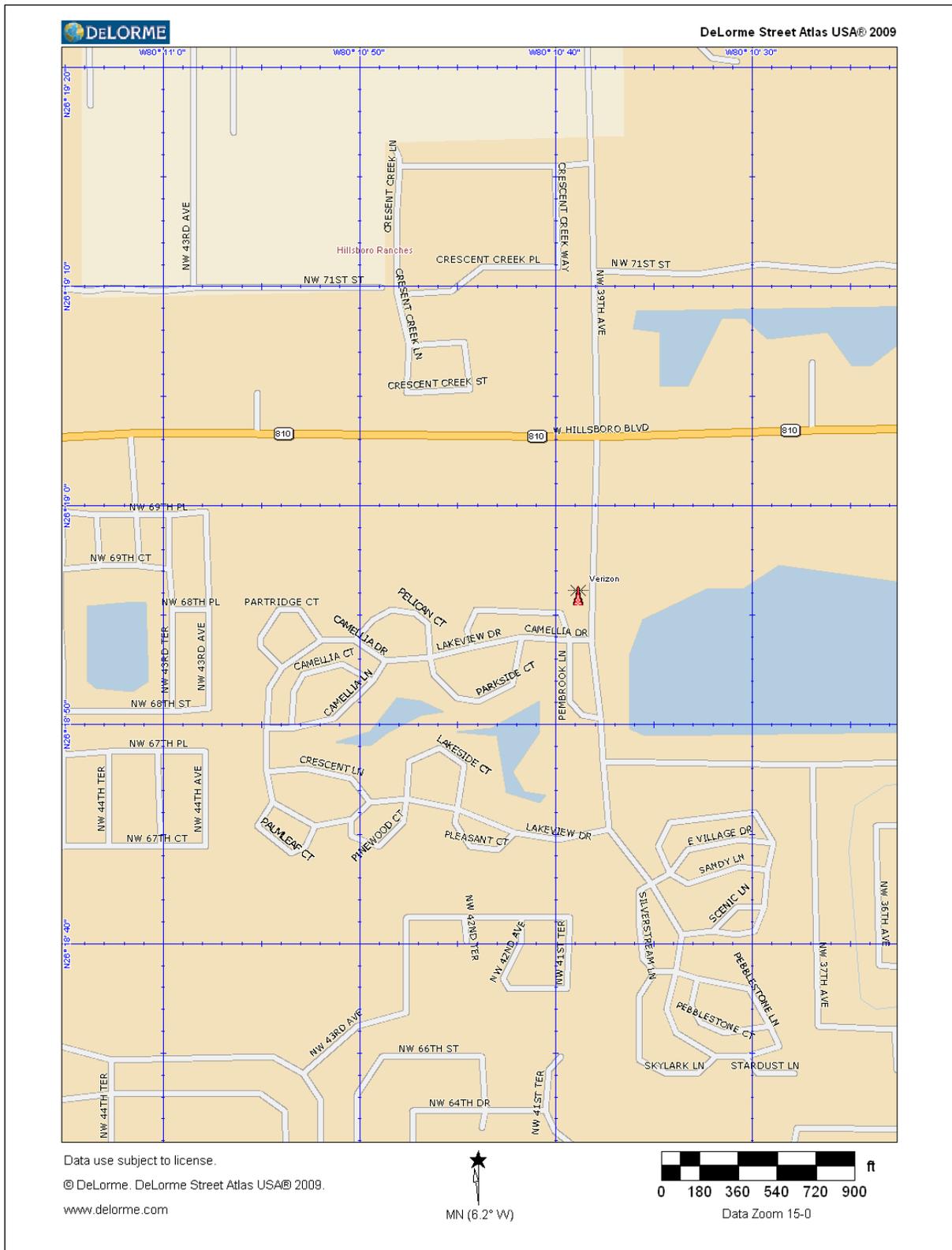
1. All of the Applicant's feed lines shall be installed inside the monopole; and,
2. All of the Applicant's antenna and feed line ports shall remain secured in a manner to prevent access by birds and other wildlife; and,
3. The facility shall not be accessible by unauthorized persons.

Respectfully submitted,



Richard L. Edwards
FCC Licensed
PCIA Certified
CityScape Consultants, Inc.

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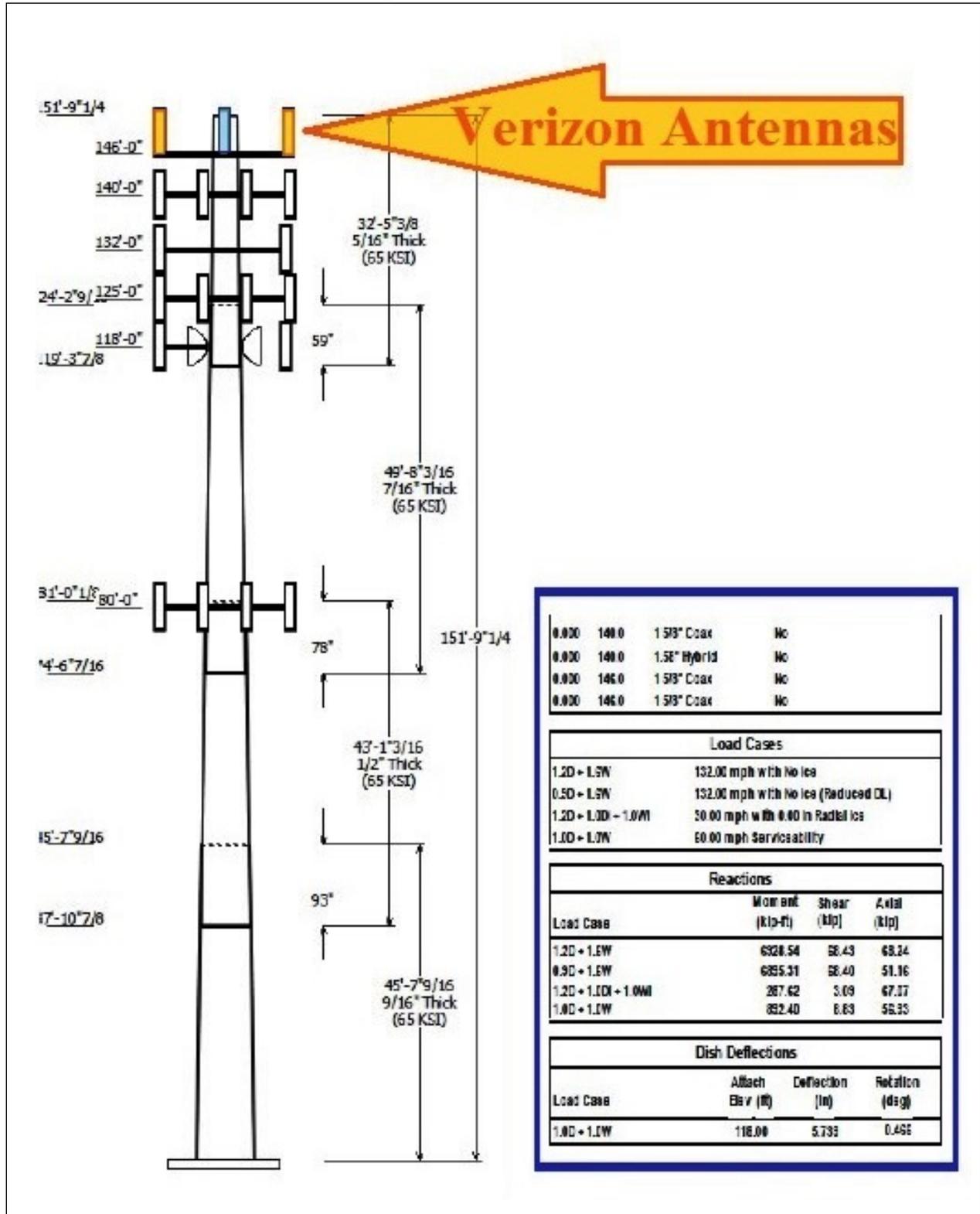
www.delorme.com

★
MN (6.2° W)

0 180 360 540 720 900 ft
Data Zoom 15-0

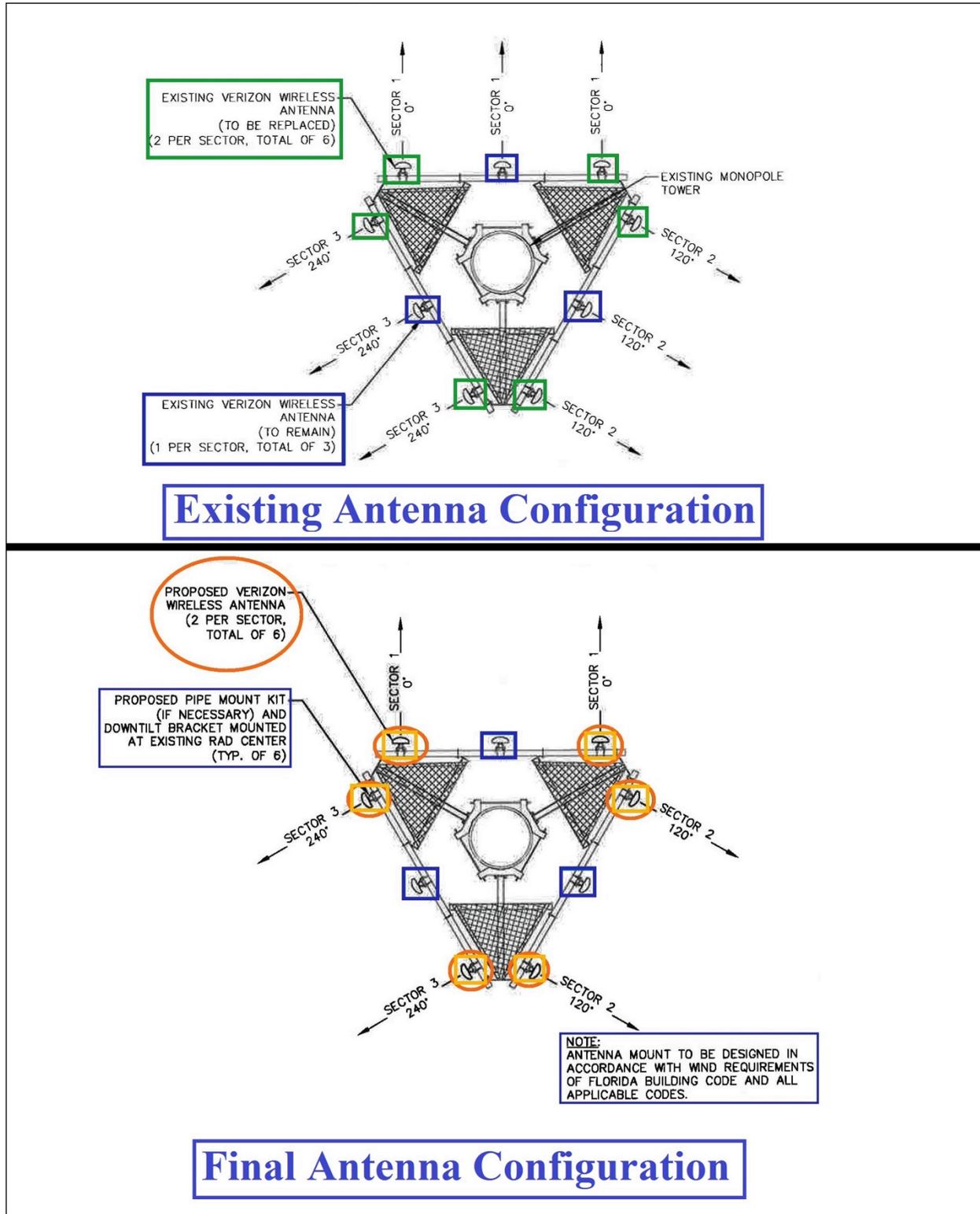
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Figure 1. Site Location



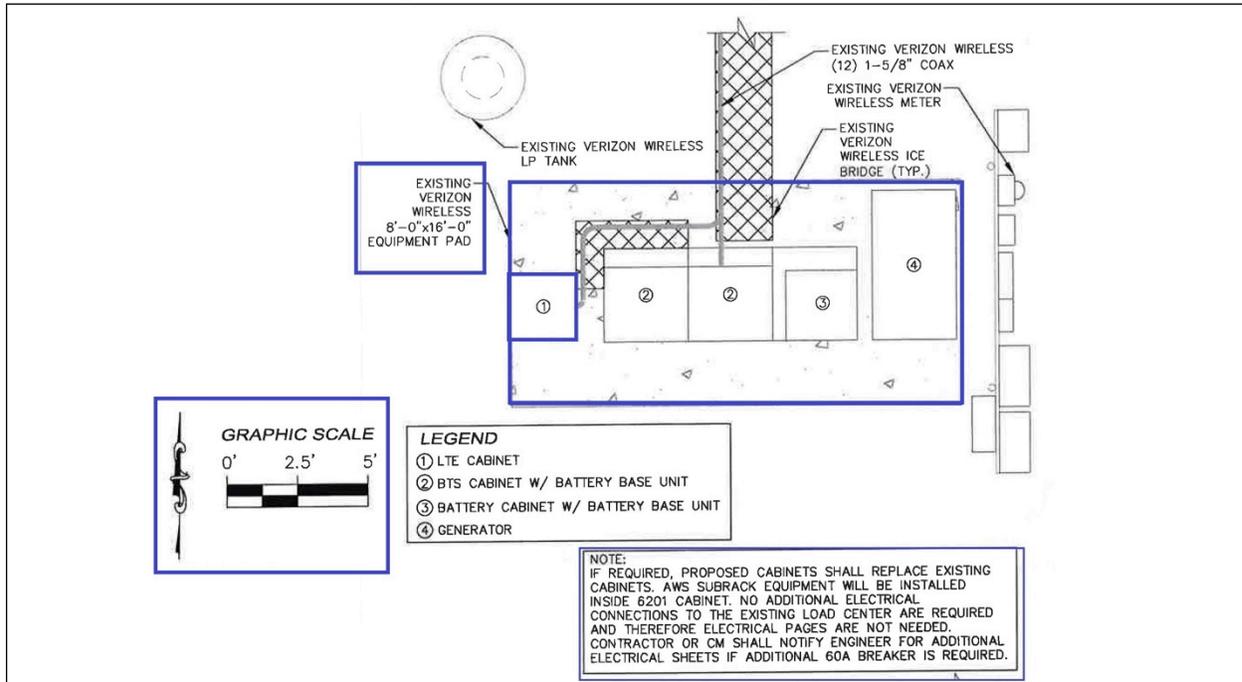
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Figure 2. Tower Elevation

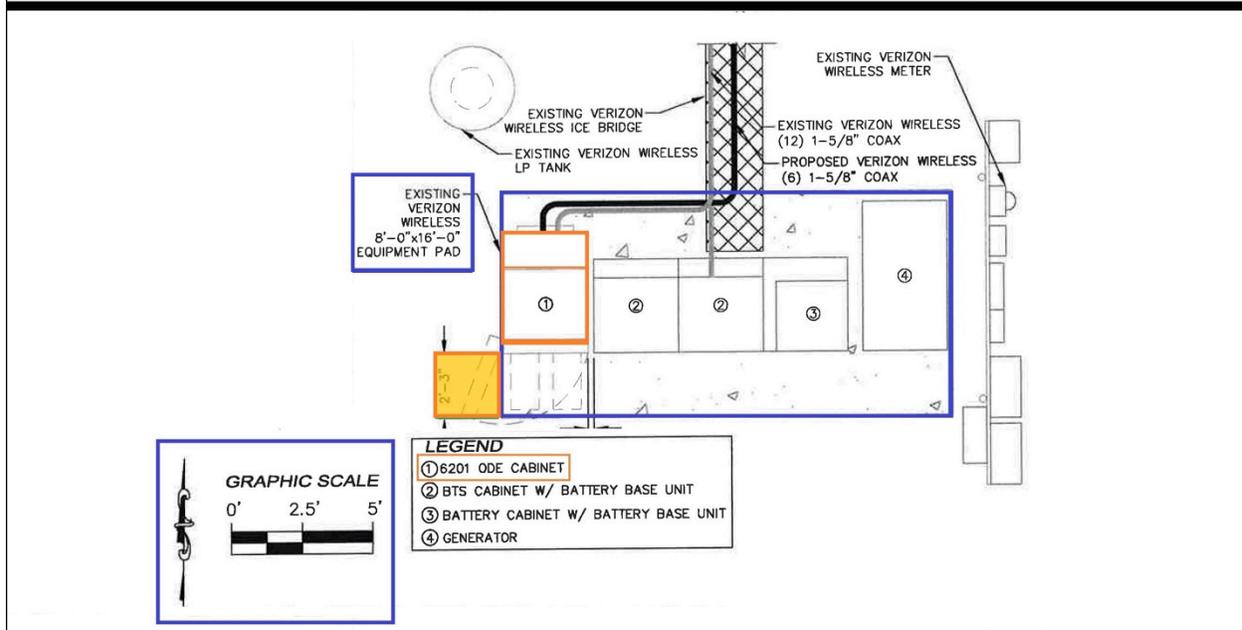


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Figure 3. Antenna Configuration



Current Ground Compound



Proposed Ground Compound Changes

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Figure 4. Ground Compound


AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	: 151.8 ft Monopole
ATC Site Name	: Coppola, FL
ATC Site Number	: 302653
Engineering Number	: 58989621
Proposed Carrier	: Verizon
Carrier Site Name	: ATC/Spectrasite Coppola
Carrier Site Number	: 68126
Site Location	: 6933 NW 39 Ave Pompano Beach, FL 33073-2107 26.316758,-80.177647
County	: Broward
Date	: June 19, 2014
Max Usage	: 61%
Result	: Pass

Zach Graham

Zach Graham



WILLIAM GARRETT
LICENSE
No 62629
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

William Garret, PE
ATC Tower Services Inc.
3500 Regency Parkway,
Suite 100
Cary, NC 27518
FL ENG. NO. 62629
FL COA. NO. 9053

Jun 19 2014 3:00 PM

ATC Tower Services, Inc. - 3500 Regency Parkway, Suite 100 - Cary, NC 27518 - 919-468-0112 Office - 919-466-5414 Fax - www.americantower.com



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Figure 5. Structural Analysis Report

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4/10/2014

Re: 6933 NW 39th Avenue

Applicant will comply with all FCC rules regarding human exposure to RF energy and will all applicable FCC rules regarding radio-frequency interference;

Figure 6. Statement of Compliance with FCC Rules

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Exhibit A. Subject Tower and Facility