

# City Council Staff Report

April 1, 2015

## Item 3

**Applicant:** Crown

Castle/Verizon Wireless

**Prepared by:** Cory Branch

**Public Hearing:** No

### REQUEST

Crown Castle/Verizon Wireless requests a discussion regarding a proposal for the expansion of an existing tower site compound located generally at the southeast corner of Maple and Main Street.

### BACKGROUND AND PROJECT DESCRIPTION

1. Crown Castle/Verizon Wireless requests to discuss the proposal of an expansion of Verizon Wireless equipment to an existing Crown Castle facility located in the Mapleton City Park at the southeast corner of Maple and Main Street.
2. This request is to collocate onto an existing 98' Crown Castle monopole. The existing monopole was approved on December 15, 2006. The terms of the existing Agreement ends on December 15, 2043.
3. Sprint is the only carrier currently on the monopole.
4. Verizon Wireless is proposing to add nine (9) panel antennas, six (6) remote radio heads and an OVP box at the 87' centerline below the existing antennas on the monopole along with an outdoor back-up generator.
5. There are three (3) options being proposed for the placement of the equipment. (see Attached Options)
6. Crown Castle is also proposing a Letter Agreement setting forth the terms of the Agreement related to the acquisition of additional ground space. The Letter Agreement will need to be discussed in a closed session as it relates to exchange or lease of real property.

### CITY COUNCIL DISCUSSION POINTS:

1. Is the applicant intending to add to the terms of the original agreement?
2. Of the three (3) options which one does the Council prefer?
3. Will the existing use and the proposed use meet all FCC regulations?
4. In order to avoid noise complaints when will the back-up generator be used?

### ATTACHMENT:

Proposed Options



Expansion Options for VZW Equipment  
at Existing Crown Castle Facility in  
Mapleton City Park

# Background

- VZW has requested to collocate onto the existing 98' Crown Castle Monopole in Mapleton City Park.
- VZW is proposing to install outdoor equipment similar to the existing carriers equipment along with an outdoor back-up generator at this facility.
- The size of the steel platform for the outdoor equipment can vary depending on the proposed layout.
- VZW and Crown Castle will work with the City Council and Staff to determine the best location for the placement of the VZW equipment and back-up generator near the existing facility.
- There are three (3) options for the placement of the VZW equipment that have been discussed with City Staff. Staff has requested these options to be brought before the City Council for their input.

# Option 1



# Option 1

- Crown Castle would look to expand the existing fenced lease area an additional 22' x 34' to the east of the facility.
- The expansion would allow VZW to install a 12' x 16' outdoor equipment platform and outdoor back-up generator.
- The expansion would require the removal the three (3) of the existing evergreen trees along the eastside of the existing facility.
- A 5' wide landscape strip would be installed along the north, east and south sides of the expanded fenced lease area to help screen the facility. Crown Castle and VZW would work with the City on the type of landscaping to be installed within the landscape strip.
- VZW would install three (3) antenna sectors on the existing 98' monopole.
- Each antenna sector will consist of four (4) – 8' panel antennas for a total of twelve (12) antennas.

# Option 2



# Option 2

- Crown Castle would look to place a fenced 22' x 34' lease area with a 5' landscape strip around the perimeter 35' to the south of the existing facility. The 35' will provide the necessary access clearance for Crown Castle and the existing carrier that is on the monopole.
- The expansion would allow VZW to install a 12' x 16' outdoor equipment platform and outdoor back-up generator.
- The expansion would not require the removal of existing landscape in the area.
- A 5' wide landscape strip would be installed around the perimeter of the fenced lease area to help screen the facility. Crown Castle and VZW would work with the City on the type of landscaping to be installed within the landscape strip.
- VZW would install a trough system from the lease area to the existing monopole for their hyper-flex cables. The trough system will allow VZW easy access to their hyper-flex cables as well as it can be driven on.
- VZW would install three (3) antenna sectors on the existing 98' monopole.
- Each antenna sector will consist of four (4) – 8' panel antennas for a total of twelve (12) antennas.

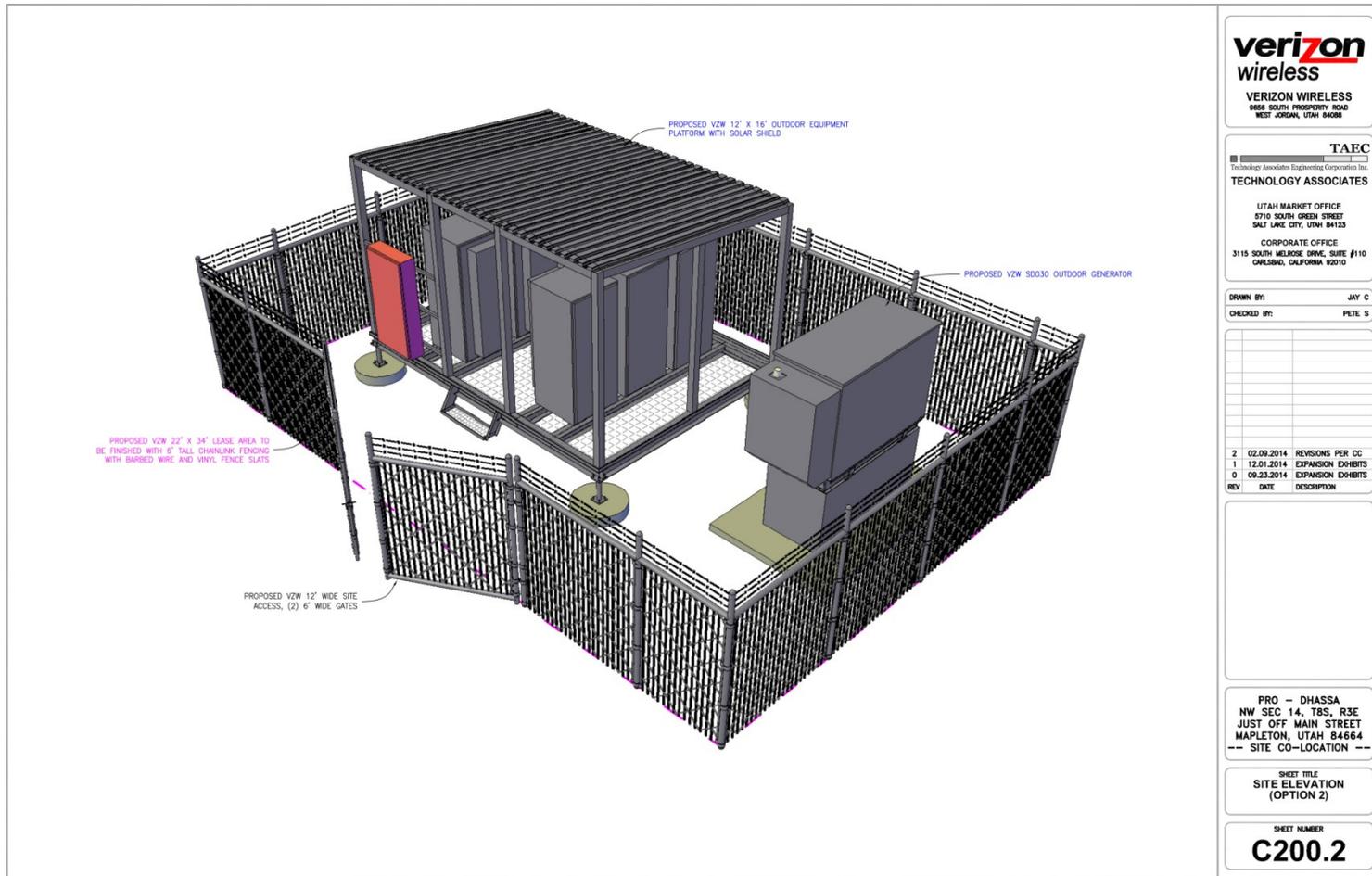
# Option 3



# Option 3

- Crown Castle would look to expand the existing fenced lease area an additional 22' x 26' to the south of the facility.
- The expansion would allow VZW to install a 8' x 16' outdoor equipment platform and outdoor back-up generator. It would provide continued access to the existing equipment and monopole.
- The expansion would require the removal of two (2) of the existing evergreen trees along the South side of the existing facility.
- A landscape area would be installed along the West sides of the expanded fenced lease area to help screen the facility. Crown Castle and VZW would work with the City on the type of landscaping to be installed within the landscape area.
- VZW would install three (3) antenna sectors on the existing 98' monopole.
- Each antenna sector will consist of four (4) – 8' panel antennas for a total of twelve (12) antennas.

# Sample Outdoor Equipment



**verizon**  
wireless  
VERIZON WIRELESS  
9656 SOUTH PROSPERITY ROAD  
WEST JORDAN, UTAH 84088

**T&E**  
Technology Associates Engineering Corporation Inc.  
**TECHNOLOGY ASSOCIATES**  
UTAH MARKET OFFICE  
5710 SOUTH GREEN STREET  
SALT LAKE CITY, UTAH 84123  
CORPORATE OFFICE  
3115 SOUTH MELROSE DRIVE, SUITE #110  
CARLSBAD, CALIFORNIA 92010

DRAWN BY: JAY C  
CHECKED BY: PETE S

REV	DATE	DESCRIPTION
2	02.09.2014	REVISIONS PER CC
1	12.01.2014	EXPANSION EXHIBITS
0	09.23.2014	EXPANSION EXHIBITS

PRO - DHASSA  
NW SEC 14, T8S, R3E  
JUST OFF MAIN STREET  
MAPLETON, UTAH 84664  
-- SITE CO-LOCATION --

SHEET TITLE  
SITE ELEVATION  
(OPTION 2)

SHEET NUMBER  
**C200.2**