

# KNOXVILLE/KNOX COUNTY METROPOLITAN PLANNING COMMISSION WIRELESS COMMUNICATION FACILITY REPORT

► FILE #: 5-A-18-WCF AGENDA ITEM #: 46

POSTPONEMENT(S): 5/10/2018 **AGENDA DATE: 6/14/2018** 

► APPLICANT: VERIZON WIRELESS TENNESSEE PARTNERSHIP

OWNER(S): Christus Victor Lutheran Church

▶ PROPOSED USE: Wireless communication facility: New tower

**COMPLETE APPLICATION** 

DATE:

3/26/2018

TAX ID NUMBER: 69 P C 013 <u>View map on KGIS</u>

JURISDICTION: City Council District 5

STREET ADDRESS: 4110 Central Avenue Pike

► LOCATION: Northeast side of Central Avenue Pike, southeast of Bookwalter Dr.

► APPX. SIZE OF TRACT: 5.03 acres

SECTOR PLAN: North City

ACCESSIBILITY: Access is via Central Avenue Pike, a minor arterial street with a 22'

pavement width within a 60' right-of-way.

► ZONING: R-2 (General Residential)

► EXISTING LAND USE: Church

SURROUNDING LAND North: R-1A (Low Density Residential) - Railroad and residences

USE AND ZONING: South: C-3 (General Commercial) & C-4 (Highway and Arterial)

Commercial) - Mixed businesses

East: C-6 (General Commercial Park) - Business

West: R-2 (General Residential) - Residences

NEIGHBORHOOD CONTEXT: The site is located in an area along Central Avenue Pike and I-75 that

includes a mix of residential, institutional and commercial uses.

### STAFF RECOMMENDATION:

▶ Approve the Wireless Communication Facilities (WCF) application for a new 110 foot type 1 monopole, subject to one condition and one waiver:

Condition #1: Compliance with the access and paving standards set forth in the City's Land Development Manual. Before MPC staff issues a COA, the applicant has to provide the necessary information to City Engineering to ensure that the applicant is compliant with the City's Land Development Manual standards. Once this condition is met, City Engineering will communicate to MPC staff that this condition has been satisfied and a COA will be issued.

Waiver #1: A waiver is required for this application because the tower is located within 600 feet of an existing US Cellular tower. The ordinance has a 1,500 foot separation standard (distance between towers). The ordinance permits MPC to grant an exception to this separation standard, provided the applicant can demonstrate that technically neither coverage nor capacity can be achieved using these standards. The applicant has documented that the structure is incapable of supporting another antenna. This information was reaffirmed by MPC's consultant.

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### **COMMENTS:**

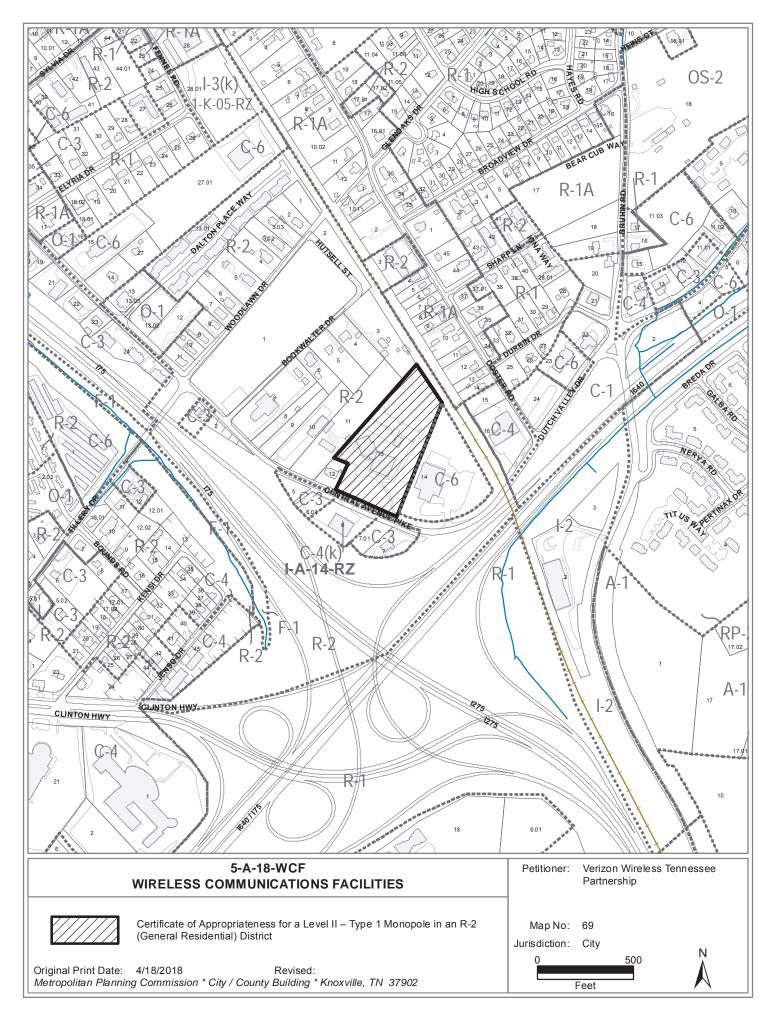
The proposed wireless communications facilities (WCF) application is for a 110 foot type 1 monopole cell tower, located at Christus Victor Lutheran Church, 4220 Central Avenue (Parcel# 069PC013). The proposed location is within a residential zoning district (R-2), and therefore, requires Level II review.

The tower has no visible exposed antennas and all the antennas are internal to the pole design. The applicant meets the 121 foot setback (110% of the height) from adjacent property lines. The tower is located on a church property that is bounded by Norfolk Southern railroad to the northeast. The applicant investigated alternative preferred site locations and possible collocation on existing towers in the surrounding area. All the sites investigated proved to be not feasible to address the applicants coverage needs.

MPC's consultant also recommends approval based on their analysis of this application.

MPC's approval or denial of this request is final, unless the action is appealed to the Knoxville City Council. The date of the Knoxville City Council hearing will depend on when the appeal application is filed. Appellants have 15 days to appeal an MPC decision in the City.

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### PROJECT SUMMARY

SITE NAME:

BOOKWALTER UNITED

SITE ADDRESS:

CENTRAL AVENUE PIKE KNOXVILLE, TN 37912

JURISDICTION:

CITY OF KNOXVILLE

COUNTY:

KNOX COLINTA

ZONING:

PROPERTY OWNER:

CHURCH CHRISTUS VICTOR LUTHERN INC. 4110 CENTER AVENUE PIKE

KNOXVILLE, TN 37912

TOWER OWNER:

VERIZON WIRELESS TENNESSEE PARTNERSHIP 575 HICKORY HILLS BLVD.

WHITES CREEK, TN 37189

PROJECT NUMBER:

20141145655

SITE LOCATION CODE:

316354

KEVIN CALDWELL

(615) 714-7114

SITE COORDINATES:

LATITUDE: LONGITUDE: ELEVATION:

36° 00' 13.78" N 83° 57' 28.46" W 1.019.1

(NAD 83) (NAVD 88)

OCCUPANCY:

UNMANNED RAWLAND

CONSTRUCTION TYPE: TELEPHONE COMPANY

CONTACT: TBD

POWER COMPANY:

KNOXVILLE UTILITIES BOARD CONTACT: CUSTOMER SERVICE PHONE: (865) 524-2911

FIRE DEPARTMENT:

KNOXVILLE FIRE DEPT. PHONE: (865) 595-4480

POLICE DEPARTMENT:

KNOX COUNTY SHERIFF PHONE: (865) 671-5989

E911 ADDRESSING:

METRO PLANNING COMMISSION CONTACT: DONNA HILL PHONE: (865) 215-2507

5-A-18-WCF Revised: 5/18/2018

### STRUCTURAL REVIEW

CONTRACTOR SHALL ATTAIN AND VERIFY STRUCTURAL EVALUATION REPORT OF EXISTING TOWER FOR EXACT PLACEMENT OF ANTENNAS AND COAX CABLES, CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STRUCTURAL EVALUATION REPORT AND NOTIFY VERIZON'S CONSTRUCTION MANAGER IN THE CASE OF ANY DISCREPANCIES, ANY STRUCTURAL
MODIFICATION, IF REQUIRED, SHALL BE DONE PRIOR TO THE INSTALLATION



TENNESSEE PARTNERSHIP (HERE IN AFTER REFERRED TO AS "LESSEE")

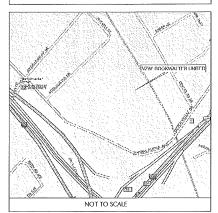
575 HICKORY HILLS BLVD. WHITES CREEK, TN 37189 ATTN: KEVIN CALDWELL (615)-714-7114

SITE NAME: BOOKWALTER UNITED CENTRAL AVENUE PIKE KNOXVILLE, TN 37912

### VICINITY MAP

# NOT TO SCALE

### LOCATION MAP



### **DRIVING DIRECTIONS**

### FROM VERIZON MTSO, NASHVILLE, TN:

GET ON 1-40 E/I-65 S (0.7 MI), KEEP LEFT AT THE FORK TO CONTINUE ON 1-40 E, FOLLOW SIGNS FOR 1-24 E/KNOXVILLE/CHATTANOOGA (1.0 MI), KEEP RIGHT TO STAY ON 1-40 E (2.1 MI), KEEP LEFT AT THE FORK TO STAY ON 1-40 E, FOLLOW SIGNS FOR INTERSTATE A EKNOXVILLE (1727 MI), USE THE RIGHT 2 LANES TO TAKE EXIT 385 FOR INTERSTATE AT SIGN TO TAKE EXIT 385 FOR INTERSTATE AND TAKE EXIT AN ROUTE 25W (0.3 MI), TURN LEFT ONTO GAP RD (0.2 MI), CONTINUE ONTO WILSON RD (0.2 MI), CONTINUE ONTO TILLERY RD (0.5 MI), TURN RIGHT ONTO CENTRAL AVENUE PIKE. SITE IS ON THE LEFT.

SHEET SCALE FACTOR:

11'x17': 'TO SCALE 24'x36": 2X SCALE AS NOTED



1 (800) 351-1111 www.tenn811.com

CONTRACTOR TO CALL TENNESSEE ONE-CALL SYSTEMS AT LEAST (2) WORKING DAYS PRIOR TO DIGGING.

### SHEET INDEX

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NO.	DESCRIPTION	
T1	TITLE SHEET	<b>▲</b> 05-10-18
GN1	GENERAL NOTES	
C1	OVERALL SITE LAYOUT PLAN	
C1A	SITE GRADING PLAN	<b>∆</b> 05-10-18
C1B	SITE GRADING PLAN	₫05-10-18
C2	SITE LAYOUT PLAN	
C2A	EQUIPMENT LAYOUT PLAN	
C3	SITE DETAILS	
СЗА	SITE DETAILS	
C3B	SITE DETAILS	
C4	SITE DETAILS 🔬 03-02-18	
C4A	SITE DETAILS	

### C5 SITE DETAILS C5A SITE DETAILS FENCE DETAILS

C6 C7 SIGNAGE DETAILS LANDSCAPE PLAN L1 **4**05-10-18 LANDSCAPE DETAILS L2 E1

STATE COUNTY MAP

**TENNESSEE** 

E3

E4

E5

E6

E6A

E6B

E7

E8

ELECTRICAL DETAILS

ELECTRICAL DETAILS

SINGLE LINE DIAGRAM

GROUNDING SINGLE LINE

OVERALL ELECTRICAL SITE PLAN E1A ELECTRICAL SITE PLAN CHECKED BY: E2 SITE GROUNDING PLAN REVISIONS E2A EQUIPMENT GROUNDING PLAN

ELECTRICAL SPECIFICATIONS 05/10/18 BES ZONING REDLINES 03/01/18 CAE TOWER CHANGE OUT ELECTRICAL DETAILS 02/20/18 ALP TOWER CHANGE OUT ELECTRICAL DETAILS ELECTRICAL DETAILS

11/13/17 BES COMPOUND CHANGE 02/14/17 BNS CONSTRUCTION ISSUE 01/13/17 BES PRELIMINARY REMEW NO. DATE BY DESCRIPTION

A&F PROJECT #



LESSEE

HIXSON, TN 37343

FAX: 423-843-9509

THE INFORMATION CONTAINED IN THIS THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

20141145655

ALP

CAE

20141145655 SITE NAME

BOOKWALTER UNITED

SITE NUMBER 316354

SITE ADDRESS CENTRAL AVENUE PIKE KNOXVILLE, TN 37912

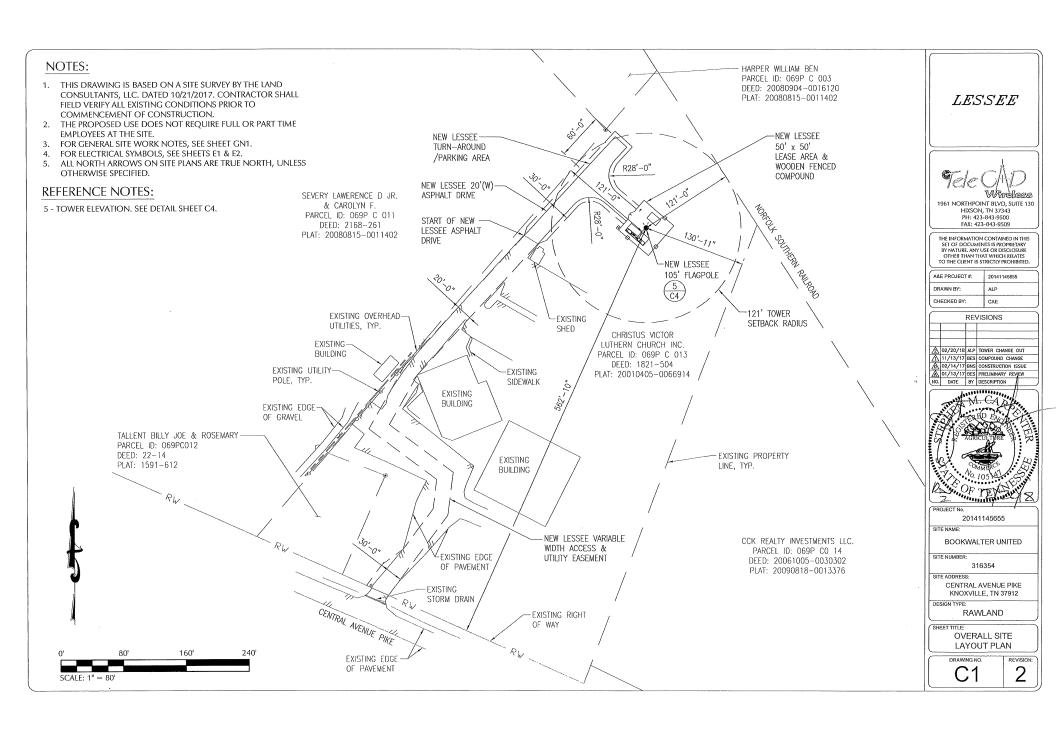
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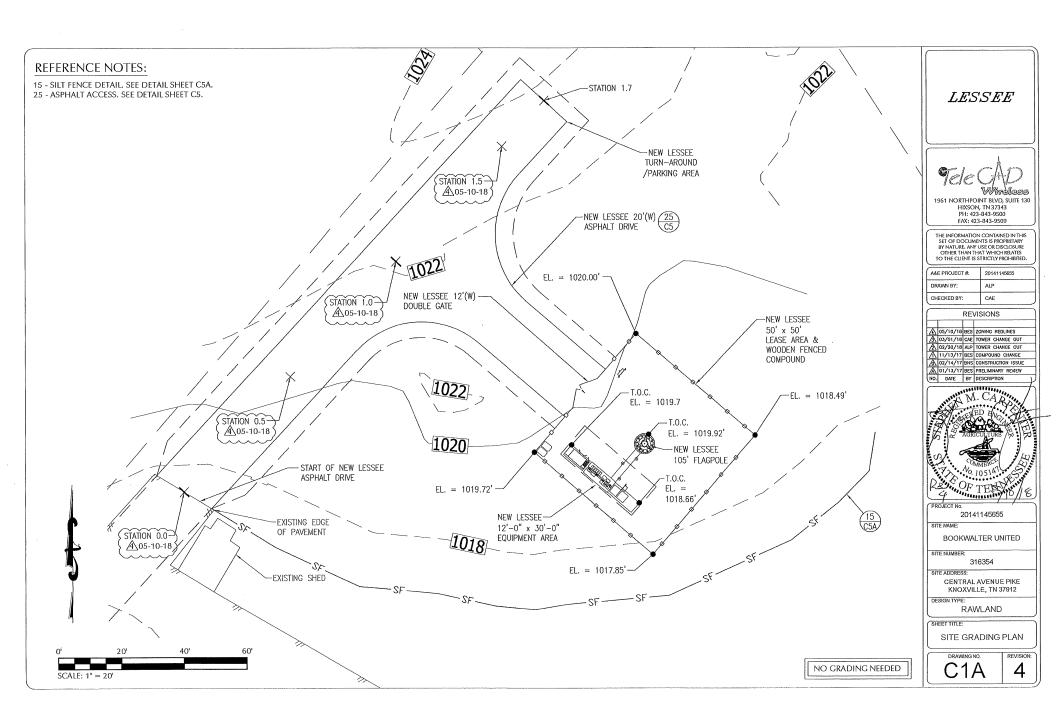
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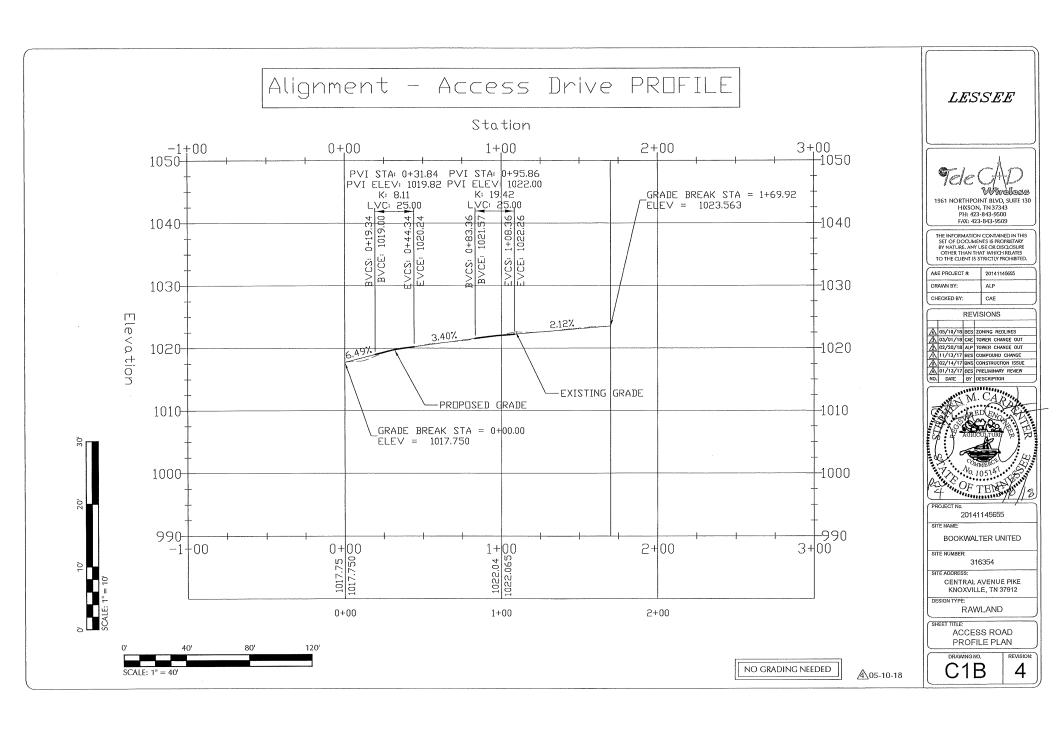
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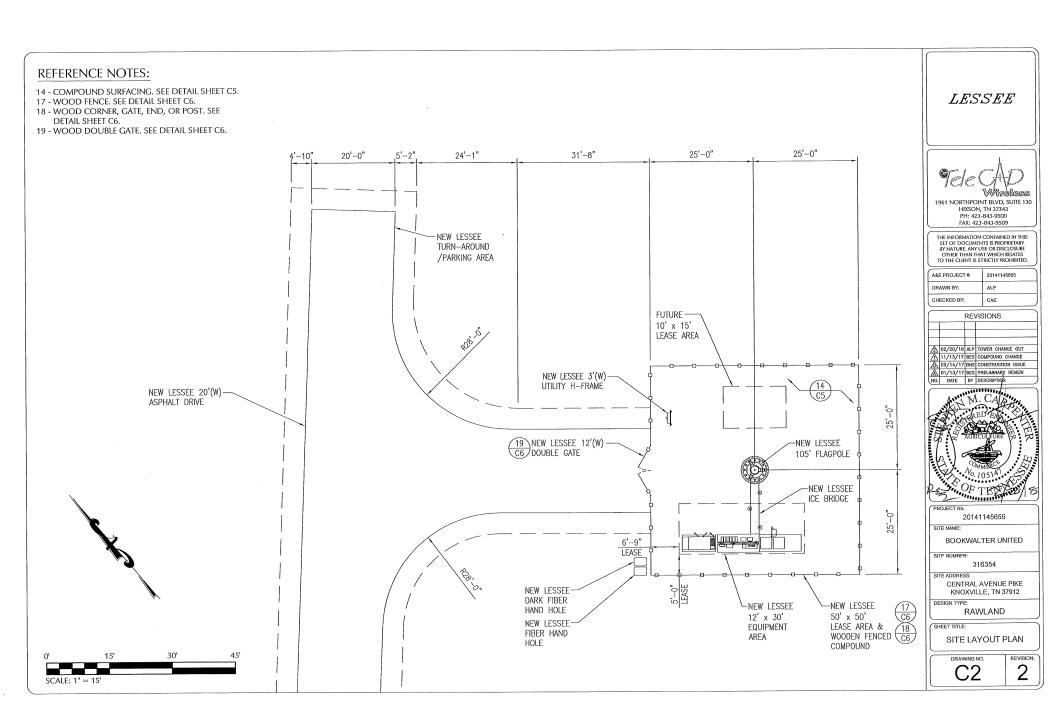
DRAWING NO.

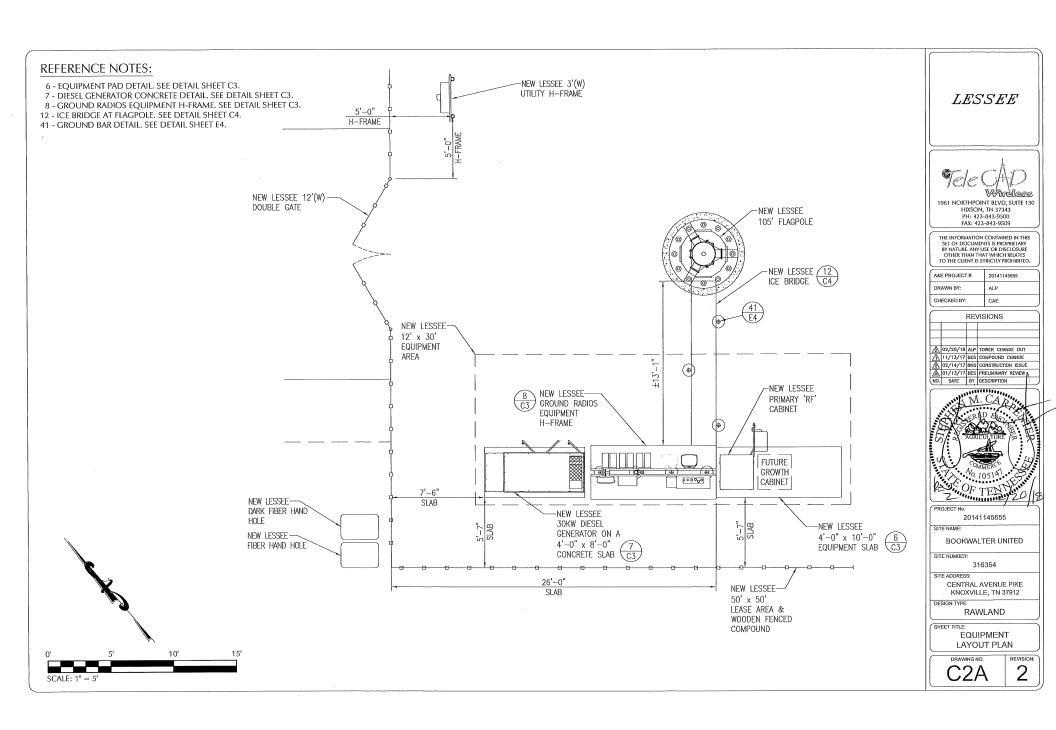
REVISION:

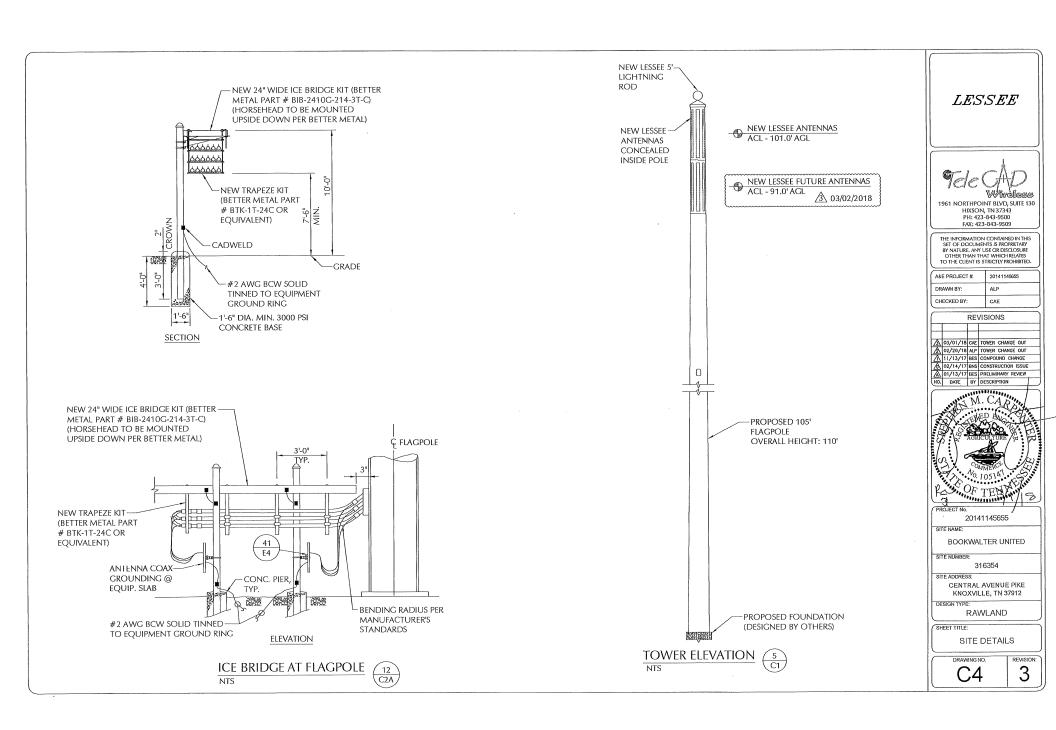


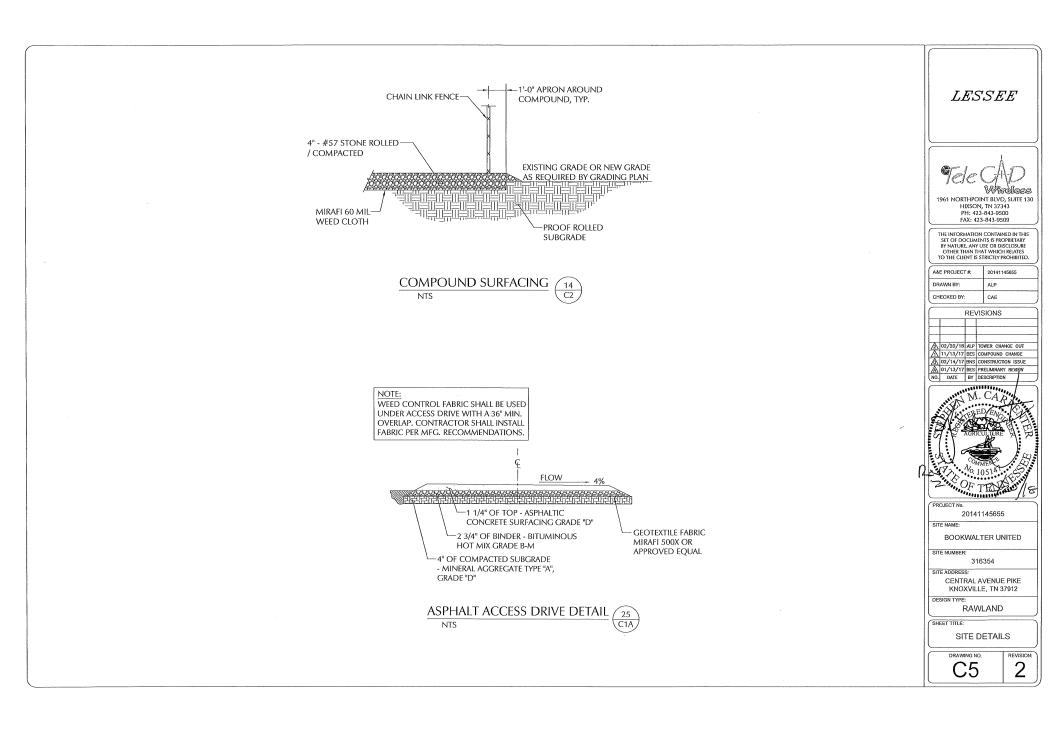


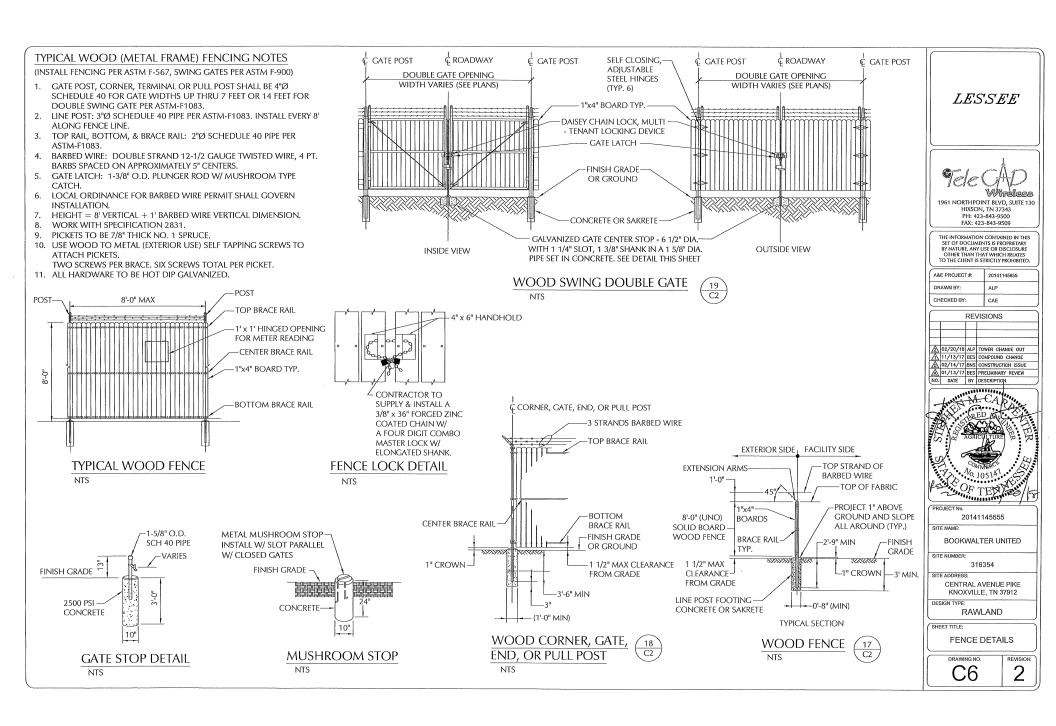


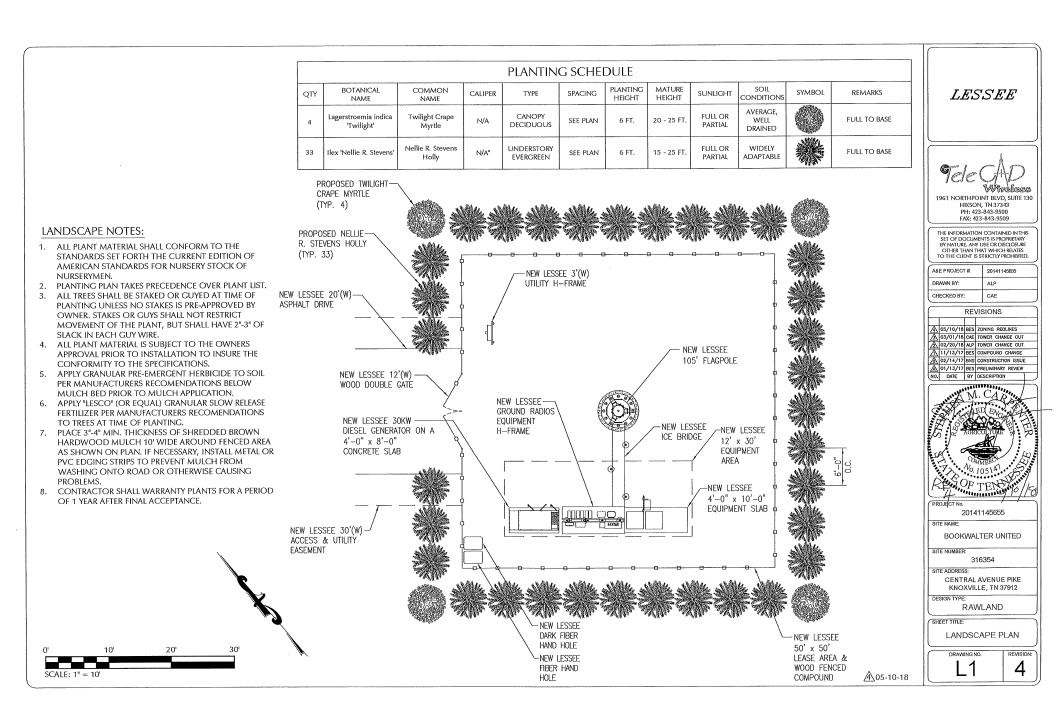












# BAKER DONELSON BEARMAN, CALDWELL & BERKOWITZ, PC

BAKER DONELSON CENTER, SUITE 800 211 COMMERCE STREET NASHVILLE, TENNESSEE 37201

MAILING ADDRESS: P.O. BOX 190613 NASHVILLE, TENNESSEE 37219

PHONE: 615.726,5600 FAX: 615.726.0464

www.bakerdonelson.com

JOEL K. HARGIS, ATTORNEY Direct Dial: 615.726.7391 Direct Fax: 615.744.7391 E-Mail Address: jhargis@bakerdonelson.com

5-A-18-WCF

March 16, 2018

Mr. Tom Brechko Knoxville / Knox County Planning Commission 400 Main Street City County Building, Suite 403 Knoxville, TN 37902

Re:

Proposed Wireless Telecommunications Facility located at

4110 Central Avenue Pike

Dear Mr. Brechko:

Enclosed are submittal materials associated with Verizon Wireless' Special Use Permit Application for the above-referenced location.

Verizon Wireless requests to construct a 110 foot tall Type I Wireless Communication Tower Facility in the R-2 zoning district as a Level II review from the Metropolitan Planning Commission of Knoxville / Knox County.

On behalf of our client, Verizon Wireless, we respectfully request approval of our special use permit. Enclosed are the following items which constitute our application:

- 1. 10 Copies of proposed site plans on 11 x 17.
- 2. 10 Copies of each exhibit
- 3. Certification of Zoning Compliance
- 4. Check in the amount of \$3000.

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Please confirm that the materials enclosed with this letter are complete and that you do not need any further information from Verizon Wireless in order for the Metropolitan Planning Commission to consider Verizon's tower request at its meeting on May 10, 2018. If additional information is needed, please contact me and I will deliver it to you as soon as possible. Thank you very much for your kind assistance regarding this matter.

Respectfully submitted,

BAKER, DONELSON, BEARMAN, CALDWELL & BERKOWITZ, PC

Joll K. Haujis

Joel K. (Joey) Hargis, Attorney

### STATEMENT OF COMPLIANCE WITH THE KNOXVILLE ZONING ORDINANCE

Verizon Wireless is required to obtain a Use on Review from the City of Knoxville's Planning Commission for Verizon Wireless' 110 foot tall type 1 monopole pursuant to Section 20 of Article V of the City of Knoxville's Zoning Ordinance. The proposed tower is located on property owned by Church Christus Victor Lutheran, Inc. The proposed tower is located at 4110 Central Avenue Pike, which is zoned R-2. Verizon Wireless complies with the standards set forth in the Ordinance with the exception of item 3(c) and respectfully requests that the proposed tower be approved.

- I. <u>Section 20 Wireless communication facilities (WCF)</u>. Verizon Wireless complies with the Wireless Communications Facilities (WCF) set forth in Section 20 with the exception of item D3(c) of the Ordinance as follows:
  - 3. New tower development standards.
    - a. Tower type. All new towers shall be either type 1 or type 2 monopole design.
      - 1) Type 1 monopole is sometimes referred to as a slick stick or unipole. It is a type of monopole design where all antenna and related equipment are housed inside the pole structure rather than attached to the exterior of the pole in an effort to conceal the visual impact of the antennas.
        - The proposed 110 foot tall tower will be a type 1 monopole as defined by the zoning ordinance.
    - b. Height. The maximum height of new tower is regulated by the zoming districts in section E table 1.
      - The maximum allowable height in a R-2 zone is 125 feet. The tower proposed by Verizon Wireless is 110 feet in height
    - c. Separation. All towers shall have a minimum separation of one thousand five hundred (1,500) feet. This separation standard shall not apply to sites where applicants are proposing a new tower to replace an existing tower. The old tower shall be removed within sixty (60) days of the new tower becoming operational.
      - There is a single tenant tower located approximately 600 feet to the west of Verizon's proposed tower. This tower is designed only to accommodate one carrier, US Cellular. The tower is of insufficient height and does not have the structural capacity to allow Verizon Wireless to collocate upon this tower. Exhibit A Shows a photograph of the existing tower.
      - All other towers are more than 1,500 feet from the location that Verizon proposes as shown in Exhibits B & C. Exhibit C shows an existing Crown Castle site nearby which appears to be at capacity.

- d. Collocation. A new WCF tower proposed for construction must accommodate a minimum of two (2) antenna arrays if the tower is less than one hundred twentyfive (125) feet in height, and at least three (3) antenna arrays if the tower is one hundred twenty-five feet in height or greater. The base station area shall contain adequate space for ground equipment associated with the proposed number of antenna arrays.
  - Verizon Wireless will provide space for a total of two carriers as required by the zoning ordinance. As shown on pages C2 and C4 of the civil plans submitted with this application, Verizon is showing space for an additional collocators on both the pole and in the equipment area.
- e. Driveway access. Shall be paved meeting applicable city standards (land development manual). The driveway shall follow the existing topography as much as possible and limit views of the base station from the public street.
  - The access drive has been designed to comply with the applicable city standards including requirements of the Knoxville Fire Marshal's Office for turn around. The proposed driveway will be asphalt.
- f. Landscaping and screening.
  - 1) Towers on ridges. Not applicable
  - 2) Base Station
    - i. Landscaping. All landscaping shall be installed and maintained in accordance with this subsection.
      - 1. The outside perimeter of the base station shall be planted with at least a twelve-foot wide planting area that contains six-foot high (at the time of planting) columnar or pyramidal evergreens that will form a solid screen at maturity. A break in the planting area not to exceed twelve (12) feet in width shall be allowed for access.
  - Verizon Wireless will fully comply with this requirement
    - 2. Existing vegetation shall be used when feasible to camouflage the base station.
  - Verizon Wireless will be retaining existing vegetation to the north and east of the existing site to help screen the site from view of adjoining properties.
    - ii. Screening
      - 1. All base stations shall be fenced.
      - 2. In residential zones, scenic highway, and historic areas base stations may include wood or masonry fencing. Fencing shall be designed to blend in with existing surroundings, using architecturally compatible construction and colors.

• Verizon Wireless is proposing to erect an eight (8) foot tall wooden fence around the entire perimeter of the equipment area to screen the equipment from view. The fence details are shown on page C6 of the civil drawings submitted with this application.

### g. Equipment shelter.

- 1) An equipment shelter used in connection with a WCF shall be limited to four hundred (400) square feet of gross floor area per provider and twelve (12) feet in height.
- 2) In residential zones, all equipment shelters should be designed to blend in with existing surroundings, using architecturally compatible construction and colors.
- Verizon Wireless will be utilizing outdoor equipment cabinets as shown on page C2A. This provision is not applicable to this request.

### h. Setbacks

- 1) Towers
  - i. All towers shall be set back from the property line of all properties zoned A-1, R-1, R-1A, R-1E, R-2, R-3, RP-1, RP-2, RP-3, R-4, TC-1, or TND-1 (not including right-of-way), all properties with an H-1 or an NC-1 overlay, and any residentially zoned property within the Town of Farragut or the county, a minimum distance equal to one hundred ten (110) percent of the height of the tower.
- Verizon Wireless is required to provide a 121 foot setback from all adjoining property lines. Verizon Wireless fully complies with the setback requirements of the zoning ordinance as shown on page C1 of the civil drawings submitted.
- 2) Base station. Perimeter fencing shall meet the setback requirements of the base zoning district, but not less than twenty-five (25) feet.
- Verizon Wireless complies with this requirement.
- i. Lighting. For new wireless communication support towers, only such lighting as is necessary to satisfy FAA requirements is permitted. Dual (low intensity) lighting shall be encouraged. All FAA-required lighting shall use lights that are designed to minimize downward illumination. Security lighting for the equipment shelters or cabinets and other on-the-ground ancillary equipment is permitted as long as full cutoff fixtures are used.
  - Verizon Wireless is not proposing to place lighting on the tower. The FCC and FAA do not require lighting for towers less than 200 feet in height.

- j. Visual impact. All WCFs in residential zones, within two thousand (2,000) feet of a scenic highway or Tennessee parkway, and historic districts shall be sited and designed to minimize adverse visual impacts on surrounding properties and the traveling public to the greatest extent reasonably possible, consistent with the proper functioning of the WCF.
  - The visual impact of the proposed tower will be greatly minimized due to the slick stick design of the proposed pole. An elevation of the proposed pole is shown on page C4 of the civil drawings submitted with this application.
  - Additionally, a photo simulation was performed showing the proposed tower superimposed from views around the area. These photo simulations have been included with this submittal as Exhibit D. These photos show that the visual impact is minimal.
- k. Stealth design/technology. Stealth design is encouraged in zoning districts. Stealth and conceahment techniques must be appropriate given the proposed location, design, visual environment, and nearby uses, structures, and natural features (including, but not limited to clock towers, flag poles, or faux-tree). Stealth design shall be designed and constructed to substantially conform to surrounding building designs or natural settings, so as to be visually unobtrusive. Stealth design that relies on screening wireless communications facilities in order to reduce visual impact must screen all substantial portions of the facility from view. Stealth and concealment techniques do not include incorporating faux-tree designs of a kind that are not native to East Tennessee and out of scale with natural vegetation.
  - The proposed flag pole type construction of the proposed WCF greatly assists in the proposed tower in being visually unobtrusive. No flag is proposed to be placed on the proposed tower. Views of the photo simulations submitted with this request help to demonstrate the design and its visual unobtrusiveness.

Section 20 (I) Application Submittal Requirements.

- 1. General Requirements
  - a. For public hearing review, a pre-application meeting with MPC staff is required.
    - A pre-application conference was held on January 11, 2018 between Joey Hargis and Tom Brechko.
  - b. Letter of commitment. The applicant shall provide a written letter of commitment from at least one cellular provider to locate on an existing or proposed facility.

- Verizon Wireless is the applicant for this request and the owner of the proposed tower. Verizon Wireless will be the initial tenant of the tower after its construction.
- c. Site plans. Complete and accurate plans and drawings to scale, prepared, signed and sealed by a Tennessee-licensed engineer, land surveyor and/or architect, including:
  - 1) Plan views and elevations showing tower, base station, fencing, landscaping, associated ground equipment, driveway design, lease area, and access and utility easements. All items shall include required dimensions:
  - 2) Identification of distances to the lot lines for adjoining properties and right-of-way from proposed tower and base station.
  - Site plans conforming to the requirements listed above are included with this submittal.
- d. Statement of purpose. A clear and complete written statement of purpose shall minimally include: 1) A description of the technical objective to be achieved, whether it be to close a gap or address a deficiency in coverage, capacity, frequency and/or change in technology; 2) A scaled map that identifies the proposed site location and the targeted service area. The map will be used to determine potential collocation and preferred siting opportunities.
  - Although Tennessee law, (T.C.A. §13-24-305(2), prohibits a government from creating a regulation that would "Require the applicant to provide any sort of justification for radio frequency need", Verizon Wireless will voluntarily submit a report from a radio frequency engineer.
  - The site's objective is a capacity offload for two nearby Verizon sites known as Sharps Ridge Sector 2 and Pleasant Ridge Sector 1. A scaled map and information is included within this submittal as Exhibit E.
- 2. Collocation consent. A written statement, signed by a person with the legal authority to bind the applicant and the project owner, which indicates whether the applicant is willing to allow other transmission equipment owned by others to collocate with the proposed WCF whenever technically and economically feasible and aesthetically desirable.
  - Verizon Wireless is submitting a collocation consent letter from Jean Musa which states that Verizon Wireless agrees to allow additional carriers to collocation on the proposed tower. This letter is shown as Exhibit F
- 3. Not applicable to this request.
- 4. Additional requirements for new tower.
  - a. Collocation and alternative sites analysis.

- i. Collocation requirement for all new towers. All applications for a new tower shall demonstrate that existing towers within one (1) mile and other structures and buildings within a half mile are not feasible for collocation, consistent with subsection D.1.
  - 1. a) For all new towers the applicant shall provide a description of why each tower within one (1) mile of the proposed WCF is not feasible for collocation.
- Included with this submission as Exhibit G is a list of all towers within 1 mile of the proposed site along with a description of why each tower is not feasible for collocation.
  - 2. Alternative site analysis. All towers in a residential zone, within two thousand (2,000) feet of a scenic highway or Tennessee parkway, historic district or within 250 feet of a residential zone, a) The tower location preferences located in subsection C.3 must be addressed in a clear and complete written alternative site analysis that shows at least five (5) higher ranked preferred locations, alternative sites considered to the extent that such higher tanked alternative sites are located within one (1) mile of the proposed site. A factually detailed and meaningful comparative analysis between each alternative candidate and the proposed site that explains the substantive reasons why the applicant rejected the alternative candidate. An applicant may reject an alternative tower site for one (1) or more of the following reasons: (1) Inability to obtain authorization by the owner; (2) Failure to meet the service coverage objectives of the applicant; (3) Failure to meet other engineering requirements for such things as location, height and size; (4) Zoning constraints, such as the inability to meet setbacks; (5) Physical or environmental constraints, such as unstable soils or wetlands; and/or (6) Being a more intrusive location despite the higher priority in this chapter.

A complete alternative sites analysis provided under this subsection may include less than five (5) alternative sites so long as the applicant provides a factually detailed written rationale for why it could not identify at least five (5) potentially available, higher ranked, alternative sites.

- Included with this submission as Exhibit H is a detailed alternative site analysis as required by the ordinance.
- b. Visual analysis. For public hearing reviews, the applicant shall provide color photo simulations of the proposed tower. The photo simulations shall include before and after images of the site, taken from at least four (4) different perspectives and a map identifying the locations that the photos were taken.

- Verizon Wireless has submitted the photo simulations as required as shown in Exhibit D.
- c. Design justification. A clear and complete written analysis that explains how the proposed design complies with the applicable design standards under this chapter to the maximum extent feasible. A complete design justification must identify all applicable design standards under this chapter and provide a factually detailed reason why the proposed design either complies or cannot feasibly comply.
- Verizon Wireless has submitted drawings in full compliance of the standards set forth in Section 20 of the Knoxville Zoning Ordinance.
- The proposed tower is a Type 1 Monopole with a slick stick design which meets all required setbacks and landscaping requirements of the code. The proposed height of the tower is 110 feet which is 15 feet less than the maximum allowable height in the R-1 zoming district. Finally, the proposed tower is a stealth design with all antennae designed to be completely hidden from view within the proposed tower.

Respectfully submitted on March 20, 2018.

Joel K. Hargis, Esq.

Baker, Donelson, Bearman, Caldwell & Berkowitz,

PC

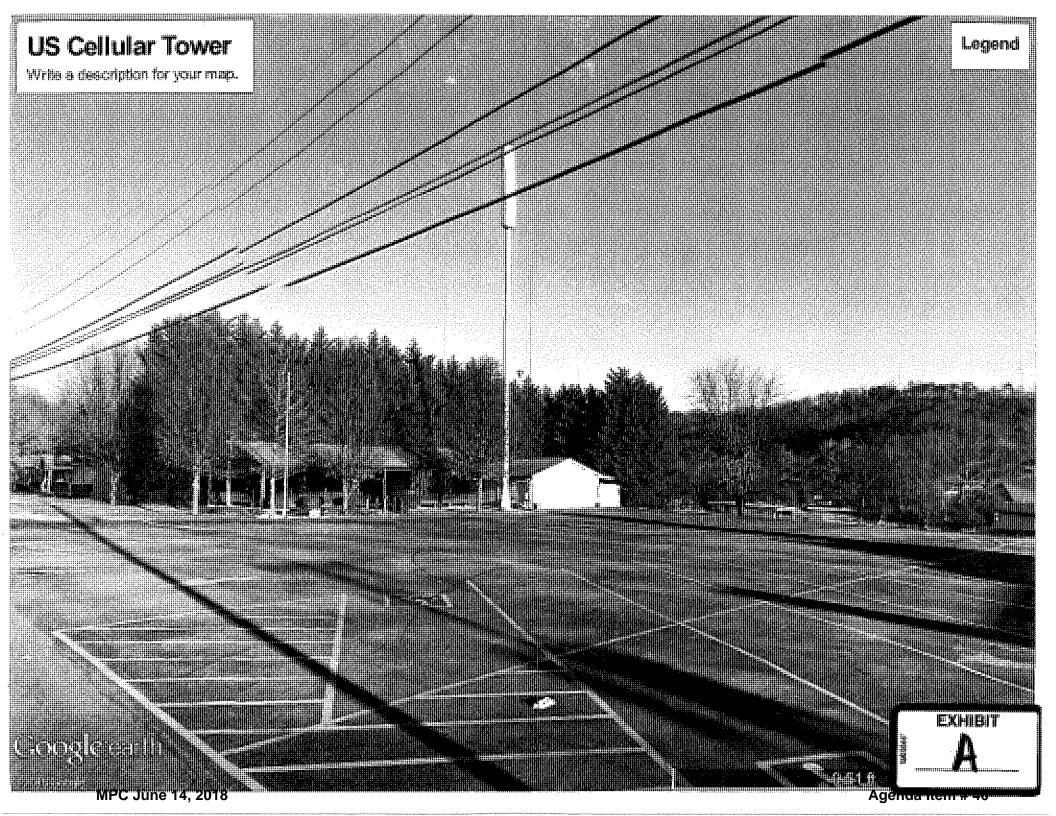
211 Commerce Street, Suite 800

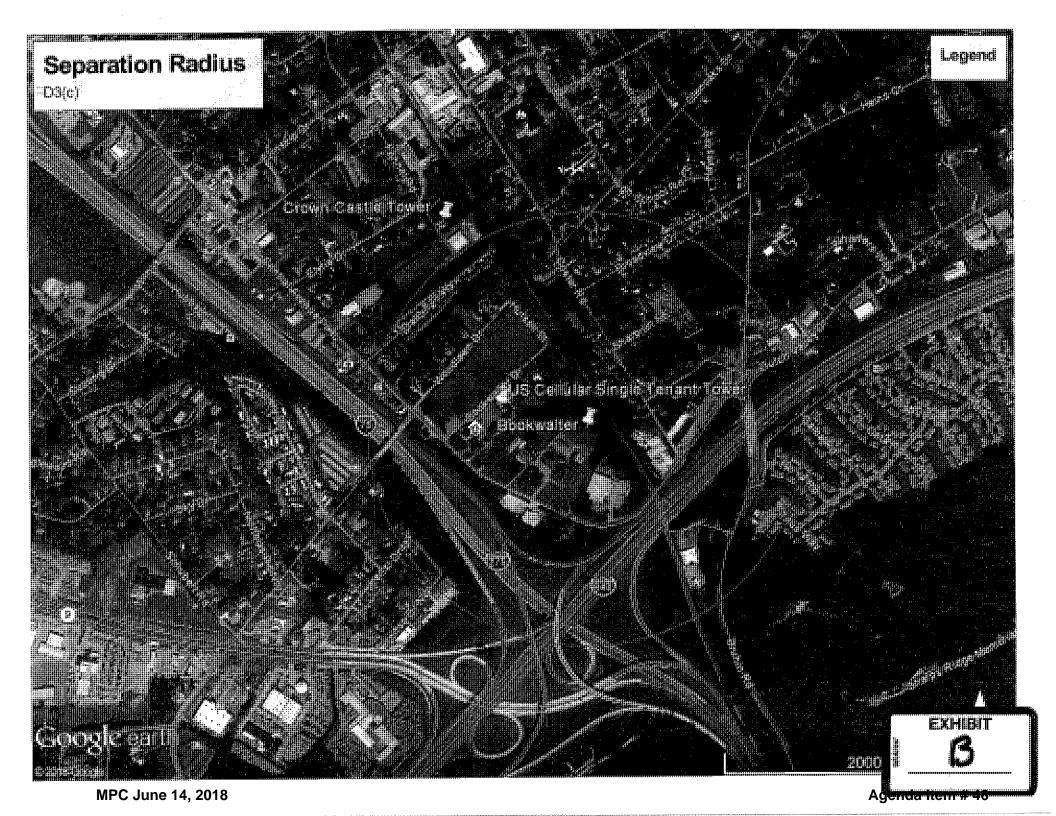
Nashville, Tennessee 37201

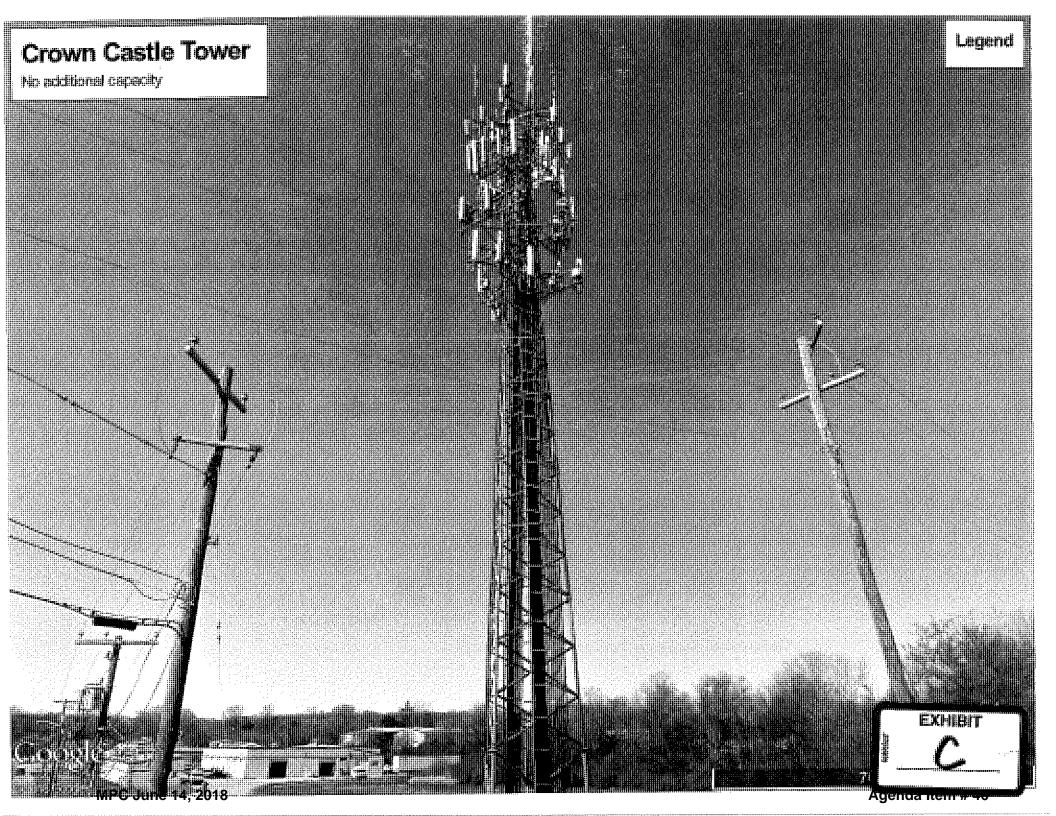
Phone: (615) 726-7391 Fax: (615) 744-7391

Email: jhargis@bakerdonelson.com

Attorney for Verizon Wireless









January 29, 2018

Verizon Wireless 8921 Research Drive Charlotte NC 28262

Attention:

Michael Haven, Senior Manager RE/Regulatory

Reference:

Visibility Assessment Bookwalter Tower Knoxville, Tennessee

S&ME Project No. 4143-18-001

Mr. Haven:

S&ME, Inc., has completed a visibility assessment for a new 110' monopole tower. The project area is located at 4110 Central Avenue Pike in Knoxville, Tennessee (Latitude 36° 00' 13.78" Longitude -83° 57' 28.46").

The goal of this study was to characterize potential visual impacts to the community by creating photosimulations of the proposed tower. To achieve this goal we used a DJI Phantom 4 Pro Unmanned Aerial System (UAS) with two 36 inch balloons suspended with a 10' tether underneath to position balloons at the location that will be the top of the proposed tower, and photographed the balloons from select locations in the project vicinity.

On Monday January 22, 2018 S&ME staff performed the fieldwork portion of this study. Jacob Foose served as the pilot, Aaron Brummitt served as the photographer, Josh Rowe and Sarah Rowe assisted by serving as safety observers. In order to conduct this study Mr. Foose flew the UAS to a height of 120' above ground level. Then Mr. Brummitt had photographed the balloons from each location. Each photograph was framed to include a field of view that was wide enough to encompass the balloon's location, the future location of the tower, if visible, and the surrounding view-shed.

This study found that the tower will be visible from all four of the photosimulation locations. However, in each case the view is partially obstructed by intervening buildings and vegetation. In many cases overhead powerlines and other communication antennas are also visible.

We have attached an aerial view (Appendix A-1) showing the location of the tower, and the locations of interest from where the photographs were taken and A photosimulation from each target location (Appendix A-2 through A-5).

EXHIBIT

D

anda Item # 46



Visibility Assessment Bookwalter Tower Knoxville, Tennessee S&ME Project No. 4143-18-001

We appreciate the opportunity to submit this report and provide you with this information. Should you have any questions, please feel free to contact us by email at <a href="mailto:ldouthat@smeinc.com">ldouthat@smeinc.com</a> or by telephone (865) 970-0003.

Sincerely,

S&ME, Inc.

Leira S. Douthat Project Manager

Attachments: Appendix A1-A5

Li S. Dorth

Aaron Brummitt, RPA

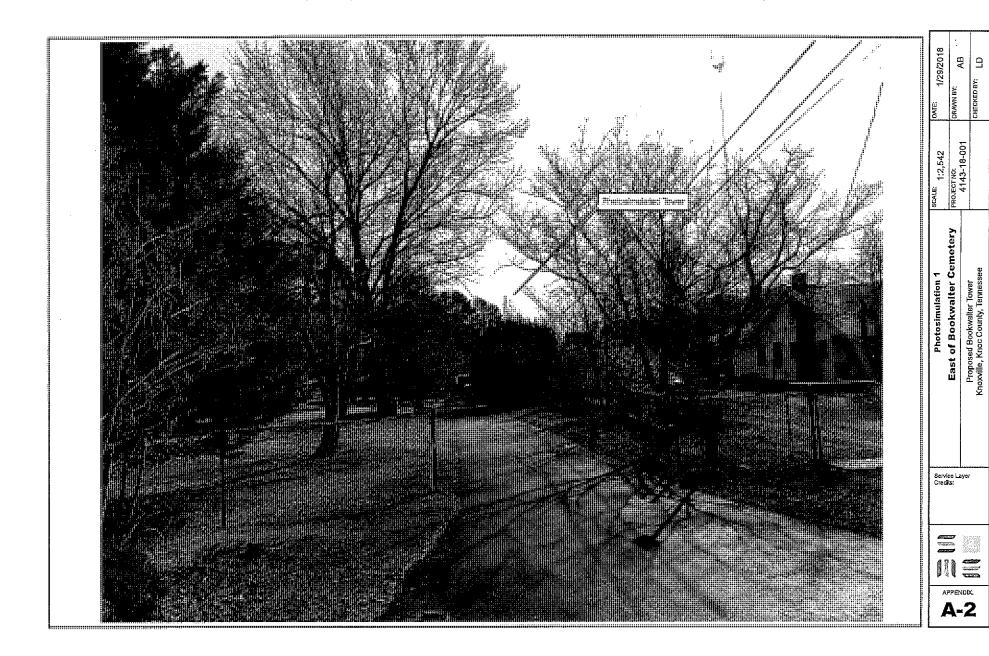
Senior Scientist

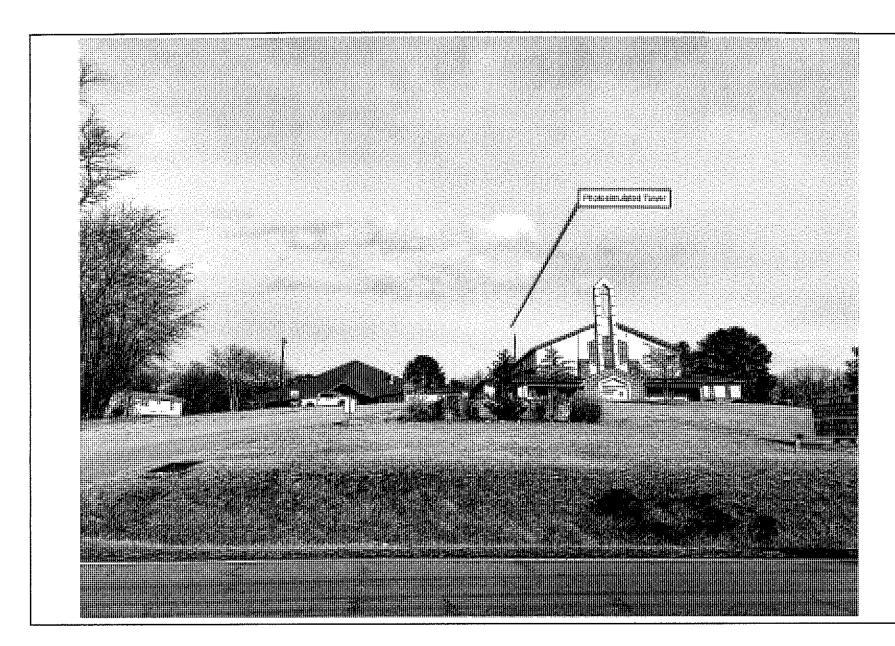
# Visibility Assessment Bookwalter Tower Knoxville, Tennessee S&ME Project No. 4143-18-001

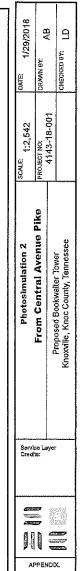


# **Attachments**

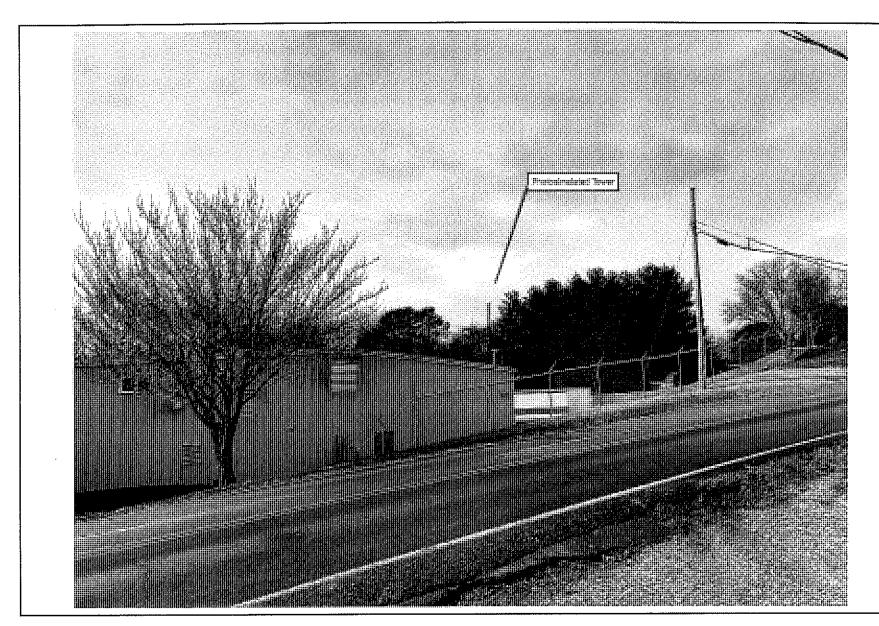




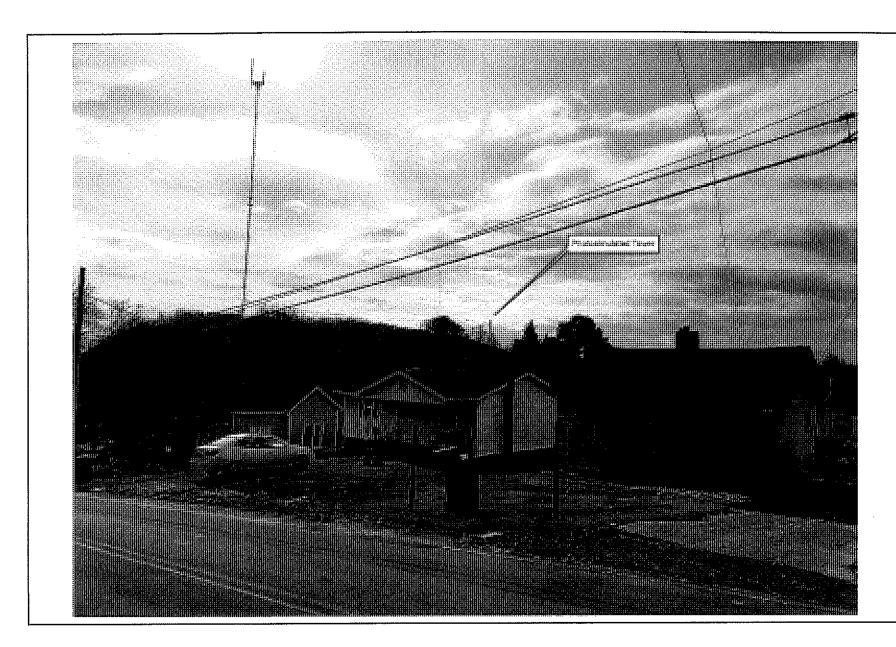




**A-3** 







1/29/2018 SCALE: 1:2,542 PROJECT NO: 4143-18-001 Proposed Bookwalter Tower Knoxville, Knoc County, Tennessee Photosimulation 4 From Coster Road Service Layer Credits: APPENDIX.

A-5

MPC June 14, 2018

**Network Operations** 



Verizon Wireless 8921 Research Drive Charlotte, North Carolina 28262

Phone 704 510-8500

December 15, 2017

To Whom It May Concern City of Knoxville Metro Planning Commission 400 Main Street Knoxville, TN 37902

Re: Future Co-location statement: Bookwalter

Verizon Wireless agrees to accommodate collocation of additional antennae for future users and that the application will charge comparable rates, reasonable within the area market to all users. The proposed tower will provide space for two additional carriers to locate their antenna.

Sincerely,

Jean M Musa

Specialis Regulatory/RE

EXHIBIT

genda Item # 46

## **Bookwalter United - Towers within 1 mile**

1. Crown Castle - 813399 INSKIP 232-011

Site Address: 4570 Fennel Road Knoxville, Tennessee 37912

Coordinates

36° 0′ 27.96″, -83° 57′ 40.34″

Analysis: This tower was reviewed by Verizon Wireless RF and a traffic analysis study was conducted. The results of this study are provided within Exhibit E. This study is done by running coverage with a traffic map taken into account. The study was run with the current scenario without either site and then again with each site to compare how much offload each site provides. This shows that both candidates reduce traffic but the Church candidate reduces Sharps Ridge – 2 significantly more. Pleasant Ridge - 1 is basically reduced the same with each candidate.

Additionally, the Crown Castle tower appears to be at capacity as shown in Exhibit C.

2. American Tower - 282655

Lat/Long:

35.99566, -83.95641

Address: 1218 Broadcast Way KNOXVILLE, TN, 37921-1904

Analysis: This ATC site is located on the ridge and the existing ground elevation is too high to be able to meet the needed coverage objective. Additionally, this site is located outside the search ring area and would not effectively offload the two sectors on Sharps Ridge and Pleasant Ridge sites.

3. American Tower - 308966

Lat/Long:

36.00356, -83.94278

Address: 363 Sharps Ridge Memorial Park Drive Knoxville, TN, 37917

Analysis: This ATC site is located on the ridge and the existing ground elevation is too high to be able to meet the needed coverage objective. Additionally, this site is located outside the search ring area and would not effectively offload the two sectors on Sharps Ridge and Pleasant Ridge sites. This site is also located close to the previously mentioned Sharps Ridge site and would not be able to offload both the Pleasant Ridge and Sharps Ridge site.

4. US Cellular - 223393

36.003700, -83.960300

Address: 4218 Central Avenue Pike, Knoxville, TN 37912

4834-3124-7964 3000001-140107



Analysis: This tower is constructed solely for the existing carrier and cannot accommodate Verizon's proposed antennas.			

# **Bookwalter United - Alternative Site Analysis**

1. Crown Castle - 813399 INSKIP 232-011

Site Address: 4570 Fennel Road Knoxville, Tennessee 37912

Coordinates

36° 0′ 27.96″, -83° 57′ 40.34″

Analysis: This tower was reviewed by Verizon Wireless RF and a traffic analysis study was conducted. The results of this study are provided within Exhibit E. This study is done by running coverage with a traffic map taken into account. The study was run with the current scenario without either site and then again with each site to compare how much offload each site provides. This shows that both candidates reduce traffic but the Church candidate reduces Sharps Ridge – 2 significantly more. Pleasant Ridge – 1 is basically reduced the same with each candidate.

This site was rejected because of its failure to meet the service coverage objects of Verizon Wireless.

(Sec. 20 (I)(4)(a)(2)(a)(2)).

2. American Tower - 282655

Lat/Long:

35.99566, -83.95641

Address: 1218 Broadcast Way KNOXVILLE, TN, 37921-1904

Analysis: This ATC site is located on the ridge and the existing ground elevation is too high to be able to meet the needed coverage objective. Additionally, this site is located outside the search ring area and would not effectively offload the two sectors on Sharps Ridge and Pleasant Ridge sites.

This site was rejected because of its failure to meet the service coverage objects of Verizon Wireless and is located outside of the search ring.

(Sec. 20 (I)(4)(a)(2)(a)(2)& (3)).

3. American Tower - 308966

Lat/Long:

36.00356, -83.94278

Address: 363 Sharps Ridge Memorial Park Drive Knoxville, TN, 37917

Analysis: This ATC site is located on the ridge and the existing ground elevation is too high to be able to meet the needed coverage objective. Additionally, this site is located outside the search ring area and would not effectively offload the two sectors on Sharps Ridge and Pleasant Ridge sites. This site is also located close to the previously mentioned Sharps Ridge site and would not be able to offload both the Pleasant Ridge and Sharps Ridge site.

EXHIBIT

4834-5915-7343 3000001-140107 This site was rejected due to its failure to meet the service coverage objectives of Verizon Wireless. The location of the tower is too close to a site intended to be offloaded by the new tower (Sharps Ridge) and too far from Pleasant Ridge.

(Sec. 20 (I)(4)(a)(2)(a)(2)& (3)).

4. US Cellular - 223393

36.003700, -83.960300

Address: 4218 Central Avenue Pike, Knoxville, TN 37912

Analysis: This tower is constructed solely for the existing carrier and cannot accommodate Verizon's proposed antennas. This site was rejected due to its failure to meet the service coverage objects of Verizon Wireless and its failure to meet the engineering requirements to be able to collocate on the tower.

(Sec. 20 (I)(4)(a)(2)(a)(2)& (3)).

5. Kerney Property

Address: 308 Tillery Drive, Knoxville, TN 37912

Zone: C-2

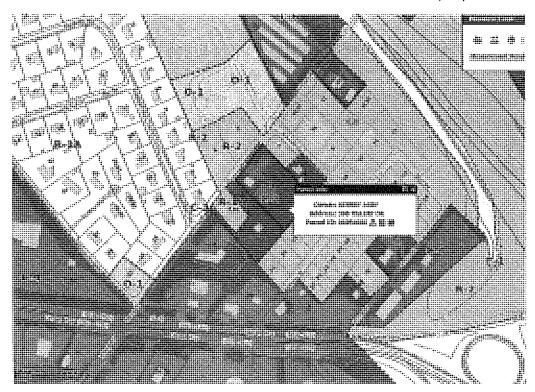
Analysis: Although located within more preferred zoning district, this candidate was located on a 1.05 acre parcel (069PA006). This candidate was rejected by Verizon Wireless due to its inability to comply with the setback requirements of Section 20. The parcel in question is only 200 feet in width and the required setback is 121 feet from the property lines.

In addition to its inability to meet the required setbacks, as previously mentioned is located on a tract of land that is over 4 acres smaller than the proposed parcel (5.03 acres vs 1.05 acres).

4834-S915-7343 3000001-140107 As noted in the figure below, the size and location within a more densely populated area with many more smaller single family lots would make this candidate a much more intrusive location despite being a higher priority location in the ordinance.



(Proposed Candidate)



(Kerney Candidate)

4834-59**1**5-7343 3000001-140**1**07 For the above mentioned reasons, Verizon Wireless rejected this site due to its failure to meet the setback requirements of the zoning ordinance and its being located in a more intrusive location despite the higher priority in this chapter. (Sec. 20 (1)(4)(a)(2)(a)(4)& (6)).

4834-591**S**-7343 3000001-140107 **Network Operations** 



Verizon Wireless 8921 Research Drive Charlotte, North Carolina 28262

Phone 704 510-8500

May 15, 2018

To Whom It May Concern City of Knoxville Metro Planning Commission 400 Main Street Knoxville, TN 37902

5-A-18-WCF

Re: Future Co-location statement: Bookwalter

Verizon Wireless agrees to accommodate collocation of additional antennae for future users and that the application will charge comparable rates, reasonable within the area market to all users. The proposed tower will provide space for one additional carrier to locate their antenna.

Sincerely,

Jean M Musa

Specialist Reg/Real Estate

Sewell Muss

#### **VERIZON WIRELESS**

#### Telecommunications Tower Site Review

#### **TOWER APPLICATION # 5-A-18-WCF**

## CONSULTANT'S SUMMARY

#### **BOOKWALTER UNITED**

#### **Knoxville City**

Location: 4110 Central Avenue Pike, Knoxville City

Proposed Tower Height: 105 foot Monopole Support Structure TYPE 1 Tower

Level II Review---Planning Commission

Address: 4110 Central Avenue Pike

Knoxville, Tennessee, 37912

District: # Parcel ID# 069P C 013 Deed: 1821 Page: 504

Use: Telecommunications antenna support structure

**Zoning:** R-2 (Residential)

Variances and waivers:. None required or requested.

**Need:** This is capacity fill site meaning that there is coverage in the area at the present but there is not enough capacity from existing sites to handle the increased traffic in the area resulting in dropped calls and sometime no access.

Instant Proposal: The instant proposal is for a short 110 foot monopole type I antenna. This means that the monopole is a "slick stick" with all antennae located within the structure and no external antennae. No lighting is required. The applicant meets the 121 foot setback requirement (110% of the height) from adjacent property lines. It is located on a church property abounded to the north east by the Norfolk Southern railroad. The applicant has made a showing of towers within a 1 mile radius and any co-location on these other structures is not feasible to allow the coverage needed.

**Waiver:** There is a waiver required for this application in that the proposed tower is located within about 600 feet of a pre-existing structure. The applicant has given justification for the waiver request.

Consultant's Recommendation: The applicant meets the requirements of the current Ordinance.

# REPORT TO METROPOLITAN PLANNING COMMISSION

for

Proposed location of a Telecommunications Tower Site Located at 4110 Central Avenue Pike Knoxville, TN known as

# "BOOKWALTER UNITED" SITE

# **VERIZON WIRELESS**

# **UOR 5-A-18-WCF**

#### **COMPLIANCE WITH**

#### THE MPC TELECOMMUNICATIONS FACILITY ORDINANCE

5/26/2018

The proposed site for the applicant is a 110 foot (overall height) Monopole antenna support structure type 1 (Slick Stick"). The supporting material from applicant has been reviewed for technical and Federal/State legal compliance as well as with the Knoxville City Wireless Communication Facilities Plan dated October 24, 2017.

#### REQUESTED

- 1. Location. The location is within the City of Knox and is located at Parcel: ID# 069P C 013 Deed: 1821 Page: 504
- 2. Zoning. R-2 (Residential)
- **3. Proposed Tower Height:** 105 foot Monopole tower (The maximum tower height in an R-2 zoned area is 125 feet AGL).
- **4.** Address: 4110 Central Avenue Pike Knoxville, Tennessee
- **5. Tower height.** The requested height is 105 feet above ground level and will support up to 1 additional telecommunications carrier antennas for a total of 2 users. Lighting will **not** be required on this structure.
- 6. Variances. The set back requirements in Article V Section 20 D(3)(h)(1)(a) of the Ordinance for Knoxville City in an R-1 zoned district is 110% of the height of the structure, in this case 116 feet, from the nearest property line. The proposed site meets that requirement and no variances are required.

- 7. Site. This application is for the construction of a new replacement Monopole type I antenna support structure to be located as a capacity fill site to provide added needed signal coverage in the area immediately surrounding the site.
- 8. Use. This antenna support structure will be used for telecommunications with the present state of the art communications technology using PCS and cellular communication sources. The need for the site has been justified and other sites within a mile of the proposed site are not feasible for this needed coverage.
- 9. **Setbacks.** The applicant meets the requirement of 110% of the height and no setback variances are required.
- **10. Height**. The proposed structure is for 105 feet and no aviation lighting is required.
- 11. Landscaping. Landscaping is required for this site and the applicant proposes same.
- 12. Other Towers for possible co-location: There is one tower about 600 feet to the northwest of the proposed location that is owned by US Cellular, but it is too short and does not have the structural capacity for any additional antennae. There is a Crown Castle tower about a quarter mile to the northwest, but it is not feasible as it is filled to capacity from a structural standpoint. There are no other towers in the area.
- 13. Stealth design/visual impact. The proposed monopole is a slick stick design meaning that it appears as a vertical flag pole with no external antennae on it and is visually unobtrusive and virtually no impact on the area.
- 14. Equipment cabinet. The ordinance allows for a maximum of 400 square feet equipment shelter, however, the applicant is proposing small equipment cabinets for the equipment considerably less than 400 sq feet.

#### **EVALUATION**

The following is a list of items reviewed:

Check for other existing towers capable of supporting the load and elevation clearance requested by the applicant herein and within 1 mile radius of site

Check for Antenna Support Structure stress analysis for co-location users' equipment support

Review support structure drawings and specifications with applicant

Review FAA lighting and marking requirements and proposals

Review FCC requirements regarding signal coverage, towers and lighting.

Review applicant's justification for site in compliance with the FCC's requirements for telecommunication company providers compliance with required coverage for the use of the general public.

Review Site plan by applicant

Check Zoning

Check setbacks for building and antenna support structure

Check proximity to other structures and district boundaries

Check nature of surrounding land uses

Check surrounding foliage and tree coverage

Check design of tower for esthetic changes

Check height requirements necessary for coverage

Check separation from other towers

Tennessee Code Annotated 13-24-305

Telecommunications Communications Act of 1996 as amended

Check frequencies proposed for possible interference to TV and radio reception in the immediate vicinity of the structure.

#### DISCUSSION

I visited and walked the proposed tower site that is a part of this review.

The site elevation at the new location is about 1019 feet. Sharp's Ridge to the south is only about a ¼ mile away and has an elevation of more than 1200 feet shadowing it from the city of Knoxville.

The proposed structure should not affect adjacent property as it is in an R-2 Residential zoned area but is near the parking lot of a church and abuts the Norfolk Southern Railroad tracks to the east. There are no residential units near the site.

The US Cellular tower about 600 feet northwest of the proposed site is too short and structurally incapable of supporting another antenna thus a wavier of the separation distance between towers is required.

The proposed access road to the site is level and access will be from Central Avenue Pike.

There is no emergency medical access issue with this site as it is at the end of the parking lot for the church and is level.

The fact that the applicant is proposing a vertical slick monopole with no external antennae...looking much like a flag pole should make the antenna stealth as to visual impact in the area. No lights are required for the structure.

#### **SUMMARY**

- (1) The proposed antenna support structure is a 105 foot Monopole structure including antennae. Lighting WILL NOT be required for this structure by the FAA due to its proposed height.
- (2) A review of the structure stress analysis on the proposed structure will support 1 other carrier near the upper level of the structure. It should be noted that the new 5G smart communications system are schedule for use beginning in 2020. This new system will require very small antennas within 35-75 feet of the ground when introduced. It is my recommendation that the monopole structure be designed to accommodate these additional 5 G antennae in the near future. It should be pointed out that to add future antennas to a structure such as the one proposed (i.e. "slick") it is very very difficult to add one internally within the structure. The applicant should attempt to convince another carrier to install its antenna and feedline from the beginning.
- (3) The structure design meets or exceeds FCC and EIA requirements.
- (4) The area surrounding the site is zoned residential but consists of churches and parking lots. There are no residences in the immediate area.
- (5) There is no general use technology (such as satellite communications) that is available at the present time nor in the immediate future that would negate the need for the structure. However, should such a technology become available and the structure of no further use, the Ordinance at Article 5 Section 20 requires it to be removed.
- (6) The proposed equipment housing facility consists of small equipment cabinets on a concrete slab and should have no visual impact.
- (7) The applicant tenants have received authorizations from the various governmental agencies, including the Federal Communications Commission, to provide communication service to the citizens of Knoxville, Tennessee.
- (8) The requested site will have minimal impact on the community involved by its very location and the wooded area at the back near the railroad tracks.
- (9) There is a waiver required as the proposed site is about 600 feet from an existing tower and the applicant has proposed a justification for the waiver.
- (10) The proposed site and structure will have no environmental impact within the federal guidelines.
- (11) Assuming that there are 2 carriers operating cellular or PCS transmitters/receivers at this site and all are operating at the same time, the radiation produced by the combination of all the users at the same time using the standards and protocols proposed and used by the carriers today, will be considerably below that established by the Federal Communications Commission and the EPA as creating any danger to humans or animals.

- (12) The need for the structure in this area to provide for the wide spectrum wireless internet service and for other wireless voice and data services to be provided under government regulation by the various proposed carriers who plan to use the site has been previously established.
- (13) The set backs required under the Ordinance are in compliance.

### RECOMMENDATION

In light of the analysis and review of documents, it is my professional opinion that the applicant meets all requirements of the Ordinance and the federal requirements.

keypectfully submitted

Larry Perry

Consultant

# STATEMENT OF QUALIFICATIONS OF CONSULTANT

I, Larry Perry, do hereby state:

That I have degrees in Law and Engineering with extensive experience in towers and communications related activities;

That I have prepared numerous communications applications resulting in grants by the Federal Communications Commission and other federal agencies;

That I have been responsible for the design and construction of more than 3785 towers in 21 countries around the world;

That I have prepared Ordinances and other statutes for cities and states concerning tower usage within municipal boundaries, including many in Tennessee.

That my credentials are a matter of record with the FAA and the FCC;

That I am a licensed attorney and Registered Professional Engineer in several states;

That I have testified before Congress on several occasions on communications related matters:

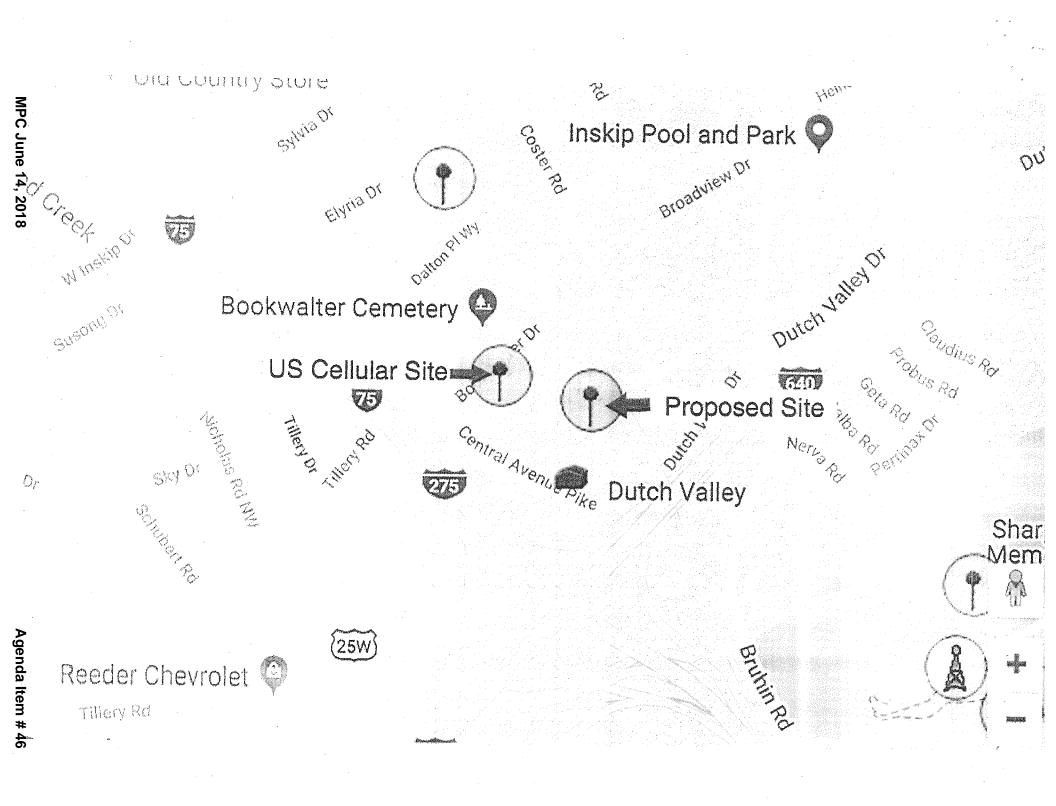
That I have served as an advisor to three FCC Chairmen and the US Department of State on International communications matters;

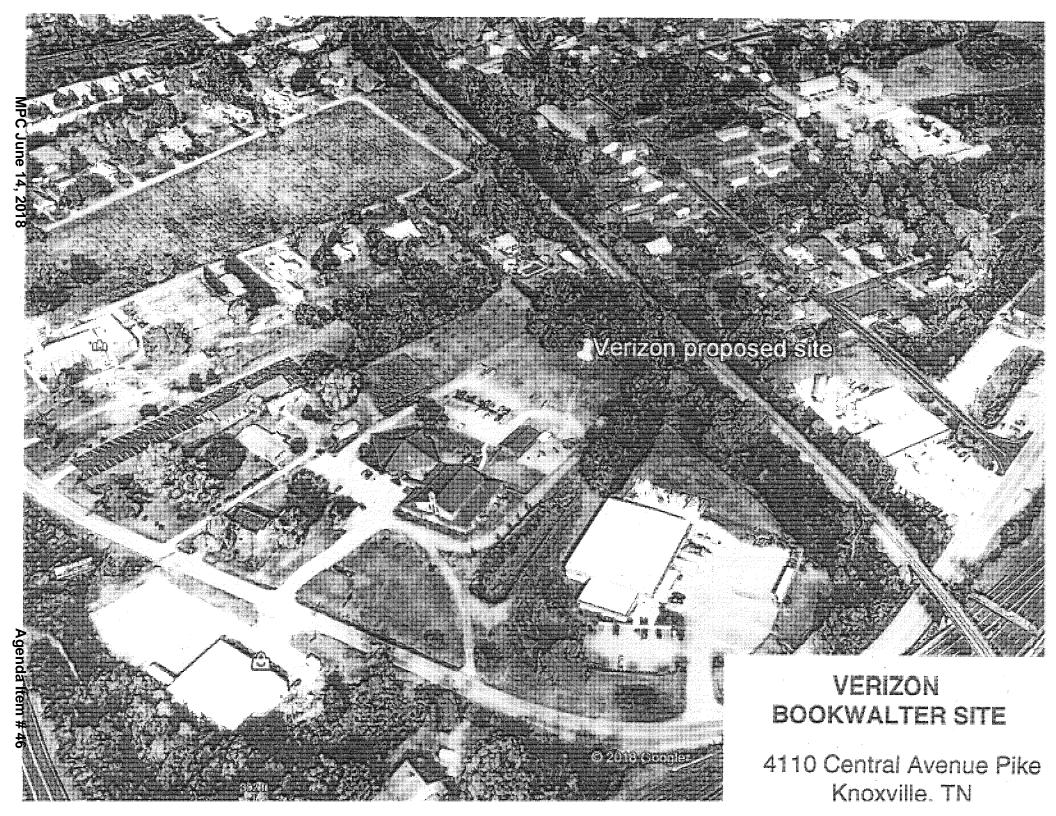
That I have more than 40 years experience in tower design, evaluation and construction:

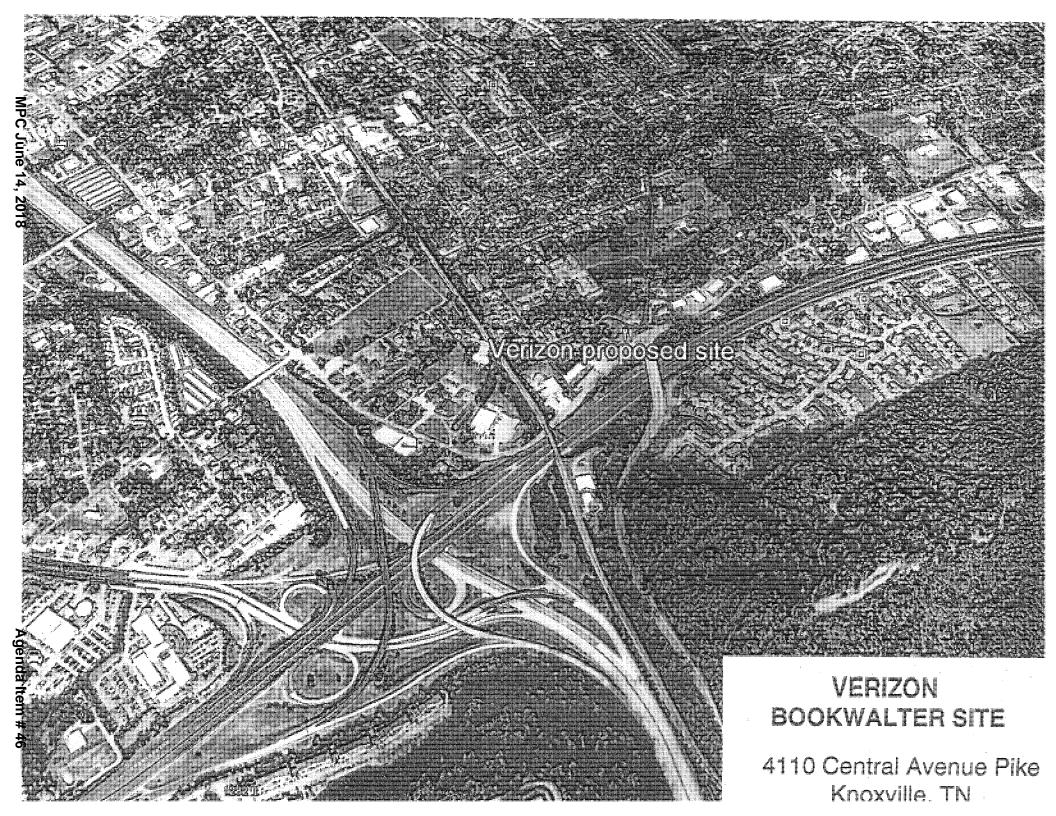
). That I have and presently do teach courses in communications and radiation at the college level at major universities and for private industry.

Larry Perry

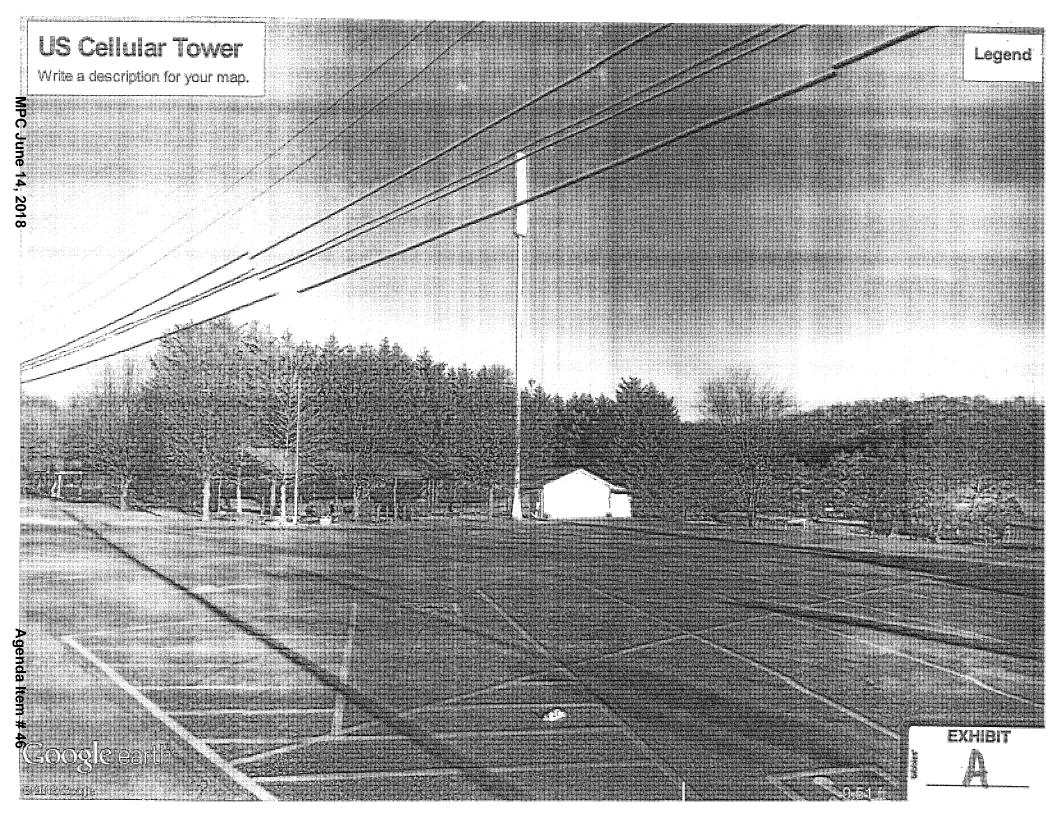
# SUPPORTING MATERIALS

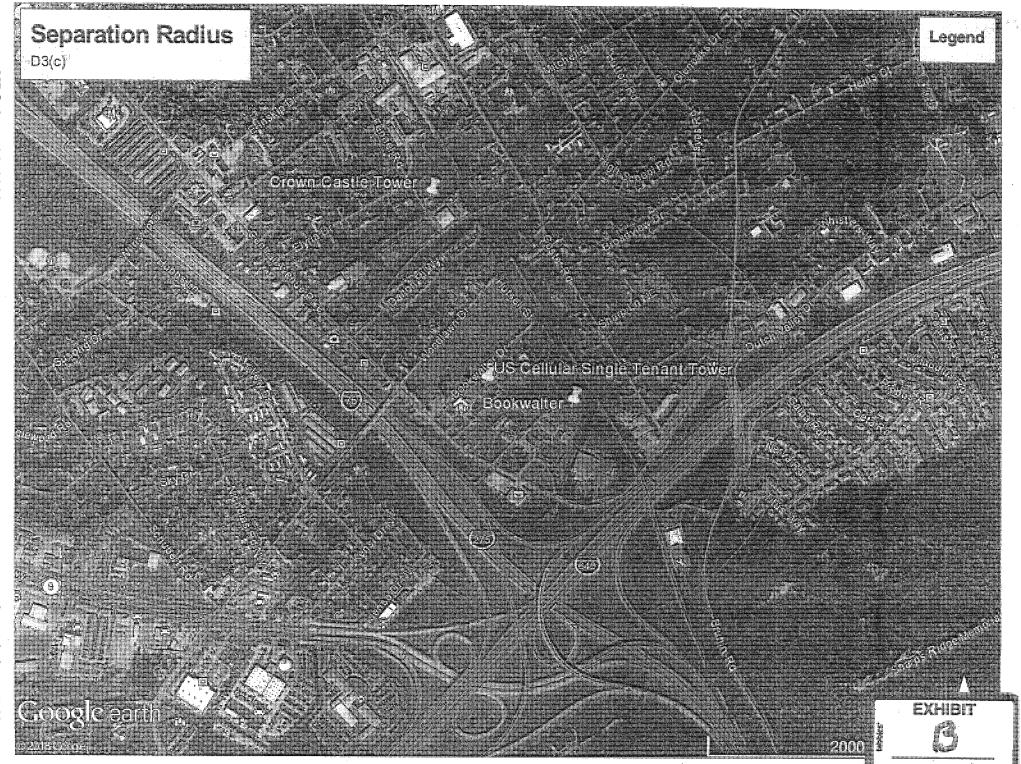






of Comment	- 11 - 24		<u> EDI Printin</u>	Site Owner	Heighi	u Diai-	- Andrews
		Registered	(1)	American Towers, Llc.	1534 feet	.41 miles	The state of the s
The second control of			(2)	Knox County Emergency Communication District	171 feet	.55 miles	
ONNERSON			(3)		215 feet	.85 miles	Sha
· ·			(4)		460 feet	.85 miles	1 Pu
Canada and			(5)	Pinnacle Towers Llc	1030 feet	.87 miles	5
m openija vedi milo da spekara i medde sime del inskia da da			(6)	Spectrasite Communications, Llc. Through American Towers, Llc.	1456 feet	.96 miles	
eles eligentespipelistijatopolestij, moli politeoran			(7)	Verizon Wireless Tennessee Partnership	295 feet	1.08 miles	





METROPOLITAN
PLANNING
COMMISSION
TENNESSEE
Suite 403 · Cily County Building
4 0 0 Main Street
Knoxyllle, Tennessee 37902
8 6 5 · 2 1 5 · 2 5 0 0
FAX × 2 1 5 · 2 0 6 8

# APPLICATION FOR WIRELESS COMMUNICATION FACILITY CERTIFICATE OF APPROPRIATENESS



COMMISSION	Name of Applicant: Verizon Wireless Tennessee Partnership									
Sulte 493 • City County Building 4 0 0 Main Street	Date Filed: 3-20 18	Fee Paid:\$30	00.00 File Number:	5-A-18-WCF						
Knoxville, Tennessee 37902 8 6 5 • 2 1 5 • 2 5 0 0 F A X • 2 1 5 • 2 0 6 8	FOR STAFF USE ONLY:									
www.knoxmpc+org	Complete Application Date:		Lead Staff:							
PROPERTY INFORMA	ITION									
Address: 4110 Central Avenue Pike										
General Location: Northeast side of Central Avenue Pike, southeast of Bookwatter Dr.										
Map/Parcel No.: 069F			Size of Tract: 5.03ac							
Jurisdiction: City of Ki	Jurisdiction: City of Knoxville									
Zoning District: R-2										
Existing Land Use: Church										
REQUEST										
Type of Approval Requested: Level II - Type 1 Monopole										
☐ Locating on a Structur	☐ Locating on a Structure or Building Req'd Pre-Application Meeting: 1/11/2018									
Small Cell		MPC Meeting: May10, 2018								
■ New Tower										
General Requirement	:s	Additional Re	quirements for New Tow	ers						
Letter of Commitment		Collocation and alternative site analysis								
Site Plan		■ Alternative Site Analysis								
Statement of Purpose		■ Visual Analysis								
Landscape Agreemen	ıt	■ Design Justification								
Additional Req'ts for	Locating on Structure/Building	Additional Re	quirements for Small Cel	1						
☐ Collocation Consent		☐ Design Sumi	mary							
PROPERTY OWNER		APPLICATION	CORRESPONDENCE							
Name: Church Christus	Victor Lutheran, Inc.	Name: Joey	Hargis							
Address: 4110 Central Ave	enue Pike	Address: 211 C	Commerce Street, Suite 800							
City/St/Zip: Knoxville, TN 37	912	City/St/Zip; Nash	ville, TN 37201							
Telephone:	Fax:	Telephone: 615-7	26-7391 Fax:							
APPLICATION AUTHO				1						
I hereby certify that I am the authorized applicant, representing the property owner involved in this request or the option holder on same.										
	s, Attorney for Verizon Wireless	Signature:	March 16, 20	018						
Address: 211 Commerce Street, Suite 800										
City/St/Zip: Nashville, TN 37201 Telephone: 615-726-7391 Fax: Email: jhargis@bakerdonelson.com										
	^									
Application Accepted E	By: Thomas Brechte									

# BAKER DONELSON BEARMAN, CALDWELL & BERKOWITZ, PC

BAKER DONELSON CENTER, SUITE 800 211 COMMERCE STREET NASHVILLE, TENNESSEE 37201

MAILING ADDRESS: P.O. BOX 190613 NASHVILLE, TENNESSEE 37219

PHONE: 615.726.5600 FAX: 615.726.0464

www.bakerdonelson.com

JOEL K. HARGIS, ATTORNEY Direct Dial: 615.726.7391 Direct Fax: 615.744.7391

E-Mail Address: jhargis@bakerdonelson.com

March 16, 2018

Mr. Tom Brechko Knoxville / Knox County Planning Commission 400 Main Street City County Building, Suite 403 Knoxville, TN 37902

Re:

Proposed Wireless Telecommunications Facility located at

4110 Central Avenue Pike

Dear Mr. Brechko:

Enclosed are submittal materials associated with Verizon Wireless' Special Use Permit Application for the above-referenced location.

Verizon Wireless requests to construct a 110 foot tall Type 1 Wireless Communication Tower Facility in the R-2 zoning district as a Level II review from the Metropolitan Planning Commission of Knoxville / Knox County.

On behalf of our client, Verizon Wireless, we respectfully request approval of our special use permit. Enclosed are the following items which constitute our application:

- 1. 10 Copies of proposed site plans on 11 x 17.
- 2. 10 Copies of each exhibit
- 3. Certification of Zoning Compliance
- 4. Check in the amount of \$3000.

4832-0868-8735 v1 3000001-140107 03/16/2018 March 16, 2018 Page 2

Please confirm that the materials enclosed with this letter are complete and that you do not need any further information from Verizon Wireless in order for the Metropolitan Planning Commission to consider Verizon's tower request at its meeting on May 10, 2018. If additional information is needed, please contact me and I will deliver it to you as soon as possible. Thank you very much for your kind assistance regarding this matter.

Respectfully submitted,

BAKER, DONELSON, BEARMAN, CALDWELL & BERKOWITZ, PC

Jal L. Hangis

Joel K. (Joey) Hargis, Attorney