

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE APPLICATION OF )  
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS & )  
TAG TOWERS, LLC FOR ISSUANCE OF A CERTIFICATE ) CASE NO. 2024-00077  
OF PUBLIC CONVENIENCE AND NECESSITY TO )  
CONSTRUCT A WIRELESS COMMUNICATIONS )  
FACILITY IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF METCALFE )

SITE NAME: WILLOW SHADE WEST

\* \* \* \* \*

**APPLICATION FOR  
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
FOR CONSTRUCTION OF A WIRELESS COMMUNICATIONS FACILITY**

Cellco Partnership, d/b/a Verizon Wireless and TAG Towers, LLC (“Co-Applicants”), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Applicant with wireless communications services.

In support of this Application, Co-Applicants respectfully provide and state the following information:

1. The complete name and address of the Co-Applicants:
  - a. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY, 42701.

- b. TAG Towers, LLC, having a local address of 108 Forbes Court, Suite 1
- c. Richmond, KY 40475

2. Co-Applicants:

- a. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership and a copy of the Statement of Good Standing from Delaware, and the Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky and included as part of **Exhibit A**.
- b. TAG Towers, LLC is a Delaware general partnership and a copy of the Statement of Good Standing from Delaware, and the Certificate of Authorization is on file with the Secretary of State of Commonwealth of Kentucky and included as part of **Exhibit A**.

3. Co-Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

4. The Co-Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicant's FCC Registration and Licenses with Authorization to provide wireless services are attached to this Application or described as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicant's services to an area

currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant's RF Design Engineer outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit R**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Co-Applicants propose to construct a WCF at 6981 KY-90 (Summer Shade Road), Summer Shade, KY 42166 (North Latitude: (36° 51' 21.64", West Longitude 85° 38' 35.2")), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Jerry Jent pursuant to a Deed recorded at Deed Book 173, Page 236 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 259-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as **Exhibit E**.

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant has also been included as part of **Exhibit C**.

9. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit D**.

10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Co-Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit Q**.

11. A copy of the Application and Determination of No Hazard for Federal Aviation Administration's ("FAA") is attached as **Exhibit F**.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Application is attached as **Exhibit G**. The approval will be filed as soon as received.

13. A geotechnical engineering report was performed at the WCF site by Engineered Tower Solutions, PLLC, 3227 Wellington Court, Raleigh, NC 27615, dated February 28, 2024 and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the

professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit H and Exhibit S**.

14. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and telephone number of the preparer of **Exhibit I** are included as part of this exhibit.

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations. The identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

17. The Construction Manager for the proposed facility is Larry Rhoads and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21169C0250C, Dated May 3, 2010.

19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). Also

attached as **Exhibit K** is the Notification List with screen shots of the PVA records verified and updated using the Rock Castle County PVA on March 26, 2024. **Exhibit C** also identifies every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system.

20. Co-Applicants have sent certified notices every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and informed of his or her right to request intervention. A list of the notified property owners, verified on March 26, 2024, using the Metcalfe County Kentucky Property Valuation Administration records and a copy of the form of the notice sent by certified mail to each landowner on March 26, 2024 are attached as **Exhibit K** and **Exhibit L**, respectively. Twelve (12) notices were sent to surrounding property owners; to date eight (8) notice green cards have been returned. USPS tracking indicates that one (1) notice was unclaimed and being returned, three (3) notices are noted as “moving through the system” and look as though they are also being returned. There are no unaccountable notices. Copies of the mailed envelopes, returned green cards and USPS tracking are included in **Exhibit L**. We will supplement the file with any additional returned envelopes received.

21. Co-Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice along with a copy of the mailed envelope and returned green card is attached as **Exhibit M**.

22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**.

23. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as **Exhibit O**.

24. The area of the proposed facility is in the unincorporated area of Metcalfe County, Kentucky. The site is approximately 2.5 miles southwest of Edmonton, KY. The area is open and rural in nature. The terrain in this area is hilly. There is no zoning or Plan Commission in Metcalfe County. The general area where the proposed facility is proposed is open, with a tree line along the street frontage and, removed a significant distance from any residential structures. There are no residential structures within 500 feet of the proposed tower site.

25. The process that was used by the Co-Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed

necessary by the Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit P**.

26. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area, as set out and documented in the RF Design Engineer's Statement of Need and Propagation Maps attached as **Exhibit Q** and **Exhibit R**, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

27. Attached hereto as **Exhibit T** please find an Affidavit of Certification for all information contained in this application.

28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

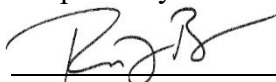
29. All responses and requests associated with this Application may be directed to:

Russell L. Brown  
Clark, Quinn, Moses, Scott & Grahn, LLP  
320 North Meridian Street, Suite 1100  
Indianapolis, IN 46204  
Phone: (317) 637-1321  
FAX: (317) 687-2344  
Email: rbrown@clarkquinnlaw.com

WHEREFORE, Co-Applicants respectfully request that the PSC accept the foregoing Application for filing, and having met the requirements of KRS §§278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.



Respectfully submitted,



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Russell L. Brown

Clark, Quinn, Moses, Scott & Grahn, LLP

320 North Meridian Street, Suite 1100

Indianapolis, IN 46204

Phone: (317) 637-1321 / FAX: (317) 687-2344

Email: [rbrown@clarkquinnlaw.com](mailto:rbrown@clarkquinnlaw.com)

Attorney for Cellco Partnership d/b/a Verizon Wireless

Dated : April 17, 2024

## LIST OF EXHIBITS

- A Applicant Entity
- B FCC Registration and License Documentation
- C Site Development Plan:
  - 500' Vicinity Map Legal Descriptions
  - Flood Plain Certification Site Plan
  - Vertical Tower Profile
- D Tower and Foundation Design
- E Competing Utilities, Corporations, or Persons List  
And Map of Like Facilities in Vicinity
- F FAA Application and Determination of No Hazard
- G KAZC Application and Approval
- H Geotechnical Report
- I Directions to WCF Site
- J Copy of Real Estate Agreement
- K Notification Listing with PVA Verification
- L Copy of Property Owner Notification
- M Copy of County Judge/Executive notice
- N Copy of Posted Notices
- O Copy of Newspaper Legal Notice Advertisement
- P Copy of Radio Frequency Design Search Area
- Q Copy of RF Design Engineer State of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification



**Michael G. Adams**  
**Secretary of State**

**Certificate**

I, Michael G. Adams, Secretary of State for the Commonwealth of Kentucky, do hereby certify that the foregoing writing has been carefully compared by me with the original thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of

CERTIFICATE OF ASSUMED NAME OF VERIZON WIRELESS ADOPTED BY  
GENERAL PARTNERS OF CELLCO PARTNERSHIP FILED JUNE 21, 2006.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my  
Official Seal at Frankfort, Kentucky, this 10th day of May, 2023.



*Michael G. Adams*

Michael G. Adams  
Secretary of State  
Commonwealth of Kentucky  
kdcoleman/0641227 - Certificate ID: 290787

COMMONWEALTH OF KENTUCKY  
TREY GRAYSON  
SECRETARY OF STATE



0641227.07

Dcornish  
C226

Trey Grayson  
Secretary of State  
Received and Filed

06/21/2006 12:06:09 PM  
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of  
Verizon Wireless

(Name under which the business will be conducted)

has been adopted by See Addendum

(Real name - KRS 365.015(1))

which is the "real name" of (YOU MUST CHECK ONE)

- |  |   |
|--|---|
| <input type="checkbox"/> a Domestic General Partnership                      | <input checked="" type="checkbox"/> a Foreign General Partnership           |
| <input type="checkbox"/> a Domestic Registered Limited Liability Partnership | <input type="checkbox"/> a Foreign Registered Limited Liability Partnership |
| <input type="checkbox"/> a Domestic Limited Partnership                      | <input type="checkbox"/> a Foreign Limited Partnership                      |
| <input type="checkbox"/> a Domestic Business Trust                           | <input type="checkbox"/> a Foreign Business Trust                           |
| <input type="checkbox"/> a Domestic Corporation                              | <input type="checkbox"/> a Foreign Corporation                              |
| <input type="checkbox"/> a Domestic Limited Liability Company                | <input type="checkbox"/> a Foreign Limited Liability Company                |
| <input type="checkbox"/> a Joint Venture                                     |   |

organized and existing in the state or country of Delaware, and whose address is

One Verizon Way Basking Ridge NJ 07920

Street address, if any

City

State

Zip Code

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker  
Signature  
Jane A. Schapker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

### Addendum

The full name of the Partnership is Cellco Partnership; a Delaware general partnership with its headquarters located One Verizon Way, Basking Ridge NJ 07920-1097.

<b>General Partners of Cellco Partnership</b>	<b>Address</b>
Bell Atlantic Cellular Holdings, L.P.	One Verizon Way Basking Ridge, NJ 07920
NYNEX PCS Inc.	One Verizon Way Basking Ridge, NJ 07920
PCSCO Partnership	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of Ohio Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	2999 Oak Road, 7 <sup>th</sup> Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7 <sup>th</sup> Floor Walnut Creek, CA 94597

# Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "CELLCO PARTNERSHIP" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTY-SEVENTH DAY OF APRIL, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.



  
Jeffrey W. Bullock, Secretary of State

3341134 8300

SR# 20231665976

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 203227418

Date: 04-27-23

# Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "TAG TOWERS LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTY-SECOND DAY OF AUGUST, A.D. 2023.



6311703 8300

SR# 20233314766

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

A handwritten signature in black ink, appearing to read "JBULLOCK", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

Authentication: 204019585

Date: 08-22-23



COMMONWEALTH OF KENTUCKY
MICHAEL G. ADAMS, SECRETARY OF STATE

1318088.06 mwellman ADD
Michael G. Adams
Kentucky Secretary of State
Received and Filed:
10/30/2023 2:59 PM
Fee Receipt: \$90.00

Division of Business Filings
P.O. Box 718
Frankfort, KY 40602
(502) 564-3490
www.sos.ky.gov

Certificate of Authority
(Foreign Business Entity)

FBE

Pursuant to the provisions of KRS 14A - 030 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

- 1. The entity is a: [ ] profit corporation [ ] nonprofit corporation [ ] professional limited liability company
[ ] business trust [x] limited liability company [ ] statutory trust
[ ] limited partnership [ ] ltd cooperative association [ ] public benefit corporation
[ ] non-profit llc [ ] professional service corporation [ ] other

2. The name of the entity is TAG Towers LLC
(The name must be identical to the name on record with the Secretary of State.)

3. The name of the entity to be used in Kentucky is (if applicable):
(Only provide if "real name" is unavailable for use; otherwise, leave blank.)

4. The state or country under whose law the entity is organized is Delaware

5. The date of organization is 2/09/2017 and the period of duration is
(if left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is
1905 Woodstock Road Suite 2100 Roswell GA 30075
Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
108 Forbes Court Richmond KY 40475
Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is David Ginter

8. The names and business addresses of the entity's representatives (secretary, officers and directors, managers, trustees or general partners):
Table with 5 columns: Name, Street or P.O. Box, City, State, Zip Code. Rows include Mark Gergel, David Ginter, and Richie Pennington.

9. If a professional service corporation, all the individual shareholders, not less than one half (1/2) of the directors, and all of the officers other than the secretary and treasurer are licensed in one or more states or territories of the United States or District of Columbia to render a professional service described in the statement of purposes of the corporation.

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.

11. If a limited partnership, it elects to be a limited liability limited partnership. Check the box if applicable: [ ]

12. If a limited liability company, check box if manager-managed: [ ]

13. This application will be effective upon filing.

David Ginter Digitally signed by David Ginter Date: 2023.10.24 08:35:33 -0400 David Ginter, President and Owner 10/23/2023
Signature of Authorized Representative Printed Name & Title Date

I, David Ginter, consent to serve as the registered agent on behalf of the business entity.
Type/Print Name of Registered Agent

David Ginter Digitally signed by David Ginter Date: 2023.10.24 07:44:48 -0400 David Ginter President 10/23/2023
Signature of Registered Agent Printed Name Title Date



**FCC Form 854  
Main Form**

Approved by OMD – 3060-0139  
See instructions for public burden estimate

**Application for Antenna Structure Registration**

**Purpose of Filing**

1) Enter the application purpose: ( <b>AM</b> )	
<b>AM</b> – Amendment of a Pending Application <b>AU</b> – Administrative Update <b>CA</b> – Cancellation of an Antenna Structure Registration <b>DI</b> – Notification of an Antenna Structure Dismantlement <b>MD</b> – Modification of a Antenna Structure Registration	<b>NE</b> – Registration of a New Antenna Structure <b>NT</b> – Required Construction/Alteration Notification <b>OC</b> – Ownership Change <b>RE</b> – Registration of a Replacement Antenna Structure <b>WD</b> – Withdrawal of a Pending Application
2a) If the answer to 1 is AU, CA, DI, MD, NT, OC or RE, provide the FCC Antenna Structure Registration (ASR) Number.	FCC ASR Number:
2b) If the answer to 1 is AM or WD, provide the File Number of the pending application on file.	File Number: <b>A1262848</b>
2c) If the answer to 1 is MD or NT, provide the date the Antenna Structure was constructed or the date it was last altered (mm/dd/yyyy).	Date:
2d) If the answer to 1 is DI, provide the date the Antenna Structure was dismantled (mm/dd/yyyy).	Date:

**Antenna Structure Ownership Information**

3) Select one of the entity types:			
( ) Individual	( ) Unincorporated Association	( ) Trust	( ) Government Entity
( ) Corporation	( <b>X</b> ) Limited Liability Company	( ) General Partnership	( ) Limited Partnership
( ) Consortium	( ) Limited Liability Partnership	( ) Other: _____	
4) FCC Registration Number (FRN): <b>0030199905</b>		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): <b>TAG Towers, LLC</b>			
8) Attention To: <b>David Ginter</b>		9) P.O. Box:	<b>And/Or</b>
10a) Street Address 1: <b>108 Forbes Court</b>		10b) Street Address 2: <b>Suite 1</b>	
11) City: <b>Richmond</b>	12) State: <b>KY</b>	13) Zip Code: <b>40475</b>	
14) Telephone Number (xxx-xxx-xxxx): <b>(859) 544-5000</b>		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: <b>dginter@tagtowers.com</b>			

### Contact Representative Information

17) First Name (if individual): <b>David</b>	MI:	Last Name: <b>Ginter</b>	Suffix:
18) Business Name: <b>TAG Towers, LLC</b>			
19) Attention To: <b>David Ginter</b>	20) P.O. Box		And/Or
21a) Street Address 1: <b>108 Forbes Court</b>		21b) Street Address 2: <b>Suite 1</b>	
22) City: <b>Richmond</b>	23) State: <b>KY</b>	24) Zip Code: <b>40475</b>	
25) Telephone Number (xxx-xxx-xxxx): <b>(859) 544-5000</b>		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: <b>dginter@tagtowers.com</b>			

### Antenna Structure Information

28a) Latitude (DD-MM-SS.S): <b>36- 51- 21.6</b>		28b) North or South: <b>North</b>	
29a) Longitude (DDD-MM-SS.S): <b>085- 38- 35.2</b>		29b) East or West: <b>West</b>	
30) Street Address or Geographic Location: <b>US Hwy 90</b>		31) City: <b>Summer Shade</b>	
32) County: <b>METCALFE</b>	33) State: <b>KENTUCKY</b>	34) Zip Code: <b>42166</b>	
35) Elevation of site above mean sea level (meters):			<b>291.3 meters</b>
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			<b>77.7 meters</b>
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			<b>78.9 meters</b>
38) Overall height above mean sea level (add items 35 and 37 together):			<b>370.2 meters</b>
39a) Enter the type of structure on which the antenna will be mounted: ( <b>LTOWER</b> )			
<b>B</b> – Building <b>BANT</b> – Building with Antenna on Top <b>BMAST</b> – Building with Mast <b>BPIPE</b> – Building with Pipe <b>BPOLE</b> – Building with Pole <b>BRIDG</b> – Bridge <b>BTWR</b> – Building with Tower <b>GTOWER</b> – Guyed Structure Used For Communication Purposes <b>LTOWER</b> – Lattice Tower <b>MAST</b> – Mast <b>MTOWER</b> – Monopole <b>NNGTANN</b> – Guyed Tower Array		<b>NNLTANN</b> – Lattice Tower Array <b>NNMTANN</b> – Monopole Array <b>PIPE</b> – Any type of Pipe <b>POLE</b> – Any type of Pole <b>RIG</b> – Oil or Other Type of Rig <b>SIGN</b> – Any type of Sign or Billboard <b>SILO</b> – Any type of Silo <b>STACK</b> – Smoke Stack <b>TANK</b> – Any type of Tank (water, gas, etc.) <b>TREE</b> – When used as a support for an antenna <b>UPOLE</b> – Utility Pole/Tower used to provide service (electric, telephone, etc.)	
39b) Number of Towers in Array:		39c) Position of this Tower in the Array:	
40a) Array Center Latitude (DD-MM-SS.S):		40b) North or South	
41a) Array Center Longitude (DDD-MM-SS.S):		41b) East or West:	

**Proposed Marking and/or Lighting**

42) Enter the proposed marking and/or lighting: ( 7 ) See Form 854 Item 42 Instructions for detailed tier and lighting information.		
1) None	4) FAA Style B	7) FAA Style E
2) Paint Only	5) FAA Style D	8) FAA Style F
3) Other _____	6) FAA Style C	9) FAA Style A
		10) FAA Style G

**FAA Notification**

43) FAA Study Number: <b>2023-ASO-25098-OE</b>	44) Date Issued: <b>11/01/2023</b>
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**Environmental Compliance**

45) Does the applicant request a waiver of the Commission's rules for environmental notice prior to construction due to an emergency situation?	( No ) Yes or No
46a) If the answer to 45 is No, is another federal agency taking responsibility for environmental review of the Antenna Structure?	( No ) Yes or No
46b) If the answer to 46a is Yes, indicate why:  1) The Antenna Structure is on Federal Land and the landholding agency is taking responsibility for the environmental review of the Antenna Structure.  2) Another federal agency has agreed with the FCC in writing to take responsibility for the environmental review of the Antenna Structure.	( ) 1 or 2
46c) If the answer to 46a is Yes, provide the name of the federal agency taking responsibility for the environmental review of the Antenna Structure.	Name:
47) If the answers to 45 and 46a are No, provide the National Notice Date for the application to be posted on the FCC's website (mm/dd/yyyy).	Date: <b>01/15/2024</b>
48) Is the applicant submitting an environmental assessment?	( No ) Yes or No
49) Does the applicant certify that grant of Authorizations at this location would not have a significant environmental effect pursuant to Section 1.1307 of the FCC's rules?	( Yes ) Yes or No
50) If the answer to 49 is Yes, select the basis for this certification.  1) The construction is exempt from environmental notification (other than due to another agency's review) and it does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules?  2) The construction is exempt from environmental notification due to another agency's review, and the other agency has issued a Finding of No Significant Impact.  3) The environmental notification has been completed, and the FCC has notified the applicant that an Environmental Assessment is not required under Section 1.1307(c) or (d) of the FCC's rules, and the Construction does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules.  4) The FCC has issued a Finding of No Significant Impact.	( 3 ) 1, 2, 3, 4
51) If the answer to 50 is 3 or 4, enter the date that Local Notice was provided (mm/dd/yyyy).	Date: <b>12/27/2023</b>

**Certification Statements**

- 1) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
- 2) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignee)

52) First Name: <b>David</b>	MI:	Last Name: <b>Ginter</b>	Suffix:
53) Title: <b>Manager</b>			
54) Signature: <b>David Ginter</b>			55) Date: <b>Feb 28, 2024</b>

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignor)

56) First Name:	MI:	Last Name:	Suffix:
57) Title:			
58) Signature:			59) Date:

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission**  
**Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY  
 CELLCO PARTNERSHIP  
 5055 NORTH POINT PKWY, NP2NE ENGINEERING  
 ALPHARETTA, GA 30022

<b>Call Sign</b> KNKN814	<b>File Number</b> 0009262182
<b>Radio Service</b> CL - Cellular	
<b>Market Numer</b> CMA447	<b>Channel Block</b> B
<b>Sub-Market Designator</b> 0	

FCC Registration Number (FRN): 0003290673

<b>Market Name</b> Kentucky 5 - Barren
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<b>Grant Date</b> 09-01-2020	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 10-01-2030	<b>Five Yr Build-Out Date</b>	<b>Print Date</b>
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**Site Information:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-06-37.0 N	085-58-40.0 W	320.0	82.3	1205611

Address: Prewitt's Knob, 4.8 km WSW of

City: CAVE CITY County: BARREN State: KY Construction Deadline:

**Antenna: 1**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	116.290	30.310	1.400	0.270	0.270	0.270	0.700	31.720

**Antenna: 2**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	0.710	17.400	93.440	120.380	32.400	3.090	0.300	0.340

**Antenna: 3**

<b>Maximum Transmitting ERP in Watts:</b>	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	177.600	194.100	184.800	162.400	189.800	184.600	178.000	165.400
<b>Transmitting ERP (watts)</b>	1.200	0.310	0.310	4.010	35.100	128.660	96.240	16.600

**Conditions:**

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-03-16.0 N	085-05-15.0 W	335.3	66.4	1060800

Address: 1.6 km WNW of intersec. of Cumberland Pkwy & US Hwy 127

City: RUSSELL SPRINGS County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.300	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	157.100	105.670	17.850	1.800	0.480	4.050	25.570	109.870

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.300	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	7.280	10.650	18.520	10.350	23.010	5.410	0.740	1.090

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	101.700	102.100	123.200	116.700	113.000	135.800	103.700
Transmitting ERP (watts)	4.030	0.340	2.430	11.890	72.190	167.790	144.670	35.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	37-19-27.0 N	085-55-08.0 W	288.0	82.3	1043058

Address: DIVIDING RIDGE; 5.6 km NNW of

City: MUNFORDVILLE County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	91.350	124.410	70.660	14.380	1.420	0.610	6.040	27.050

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	1.140	6.890	50.200	154.120	159.580	51.140	6.200	0.410

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.200	120.700	125.700	160.200	151.900	137.900	133.400	146.300
Transmitting ERP (watts)	27.250	2.690	0.340	1.880	14.510	77.820	164.920	130.790

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-58-37.0 N	085-53-48.0 W	267.0	128.9	1202695

Address: Temple Hill Road, 6.7 mi southeast of Glasgow Municipal Airport

City: GLASGOW County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	94.500	72.300	103.400	109.800	145.800	136.400	121.300
Transmitting ERP (watts)	74.230	41.180	7.090	0.410	0.310	0.390	7.600	43.080

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.400	147.000	124.700	155.800	162.300	198.300	188.800	173.800
Transmitting ERP (watts)	1.760	14.820	66.340	80.440	26.520	3.020	0.330	0.270

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.000	94.500	72.300	103.400	109.800	145.800	136.400	121.300
Transmitting ERP (watts)	1.270	0.300	0.410	2.910	34.430	104.650	82.670	15.310

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	36-53-50.0 N	084-57-27.0 W	294.1	128.0	1200492

Address: Lake Cumberland, 11.3 km NW of

City: MONTICELLO County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	90.910	34.180	4.210	0.270	0.310	1.110	14.630	66.270

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	0.830	14.810	83.280	102.460	28.880	2.520	0.320	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.400	125.800	96.900	52.400	95.800	123.100	148.300	129.500
Transmitting ERP (watts)	3.460	0.270	1.950	8.860	44.980	98.820	85.200	24.700

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-59-41.0 N	085-33-38.0 W	310.0	128.0	1043059

Address: Hickory Ridge

City: Edmonton County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	81.690	152.110	56.510	6.340	0.340	0.360	0.450	11.810

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	0.370	0.580	15.570	95.970	145.260	45.940	4.810	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	158.100	156.900	114.200	137.500	150.900	131.600	139.600	152.400
Transmitting ERP (watts)	13.870	0.940	0.340	0.390	4.390	49.220	145.260	93.790

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-43-21.4 N	085-07-37.2 W	410.8	77.7	1239784

Address: On Mountain Lane

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	214.860	95.980	11.540	0.590	0.480	0.570	12.360	100.500

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	1.150	28.320	152.110	195.960	52.740	5.040	0.480	0.550

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	224.400	172.000	96.100	151.900	211.500	206.300	193.800	200.600
Transmitting ERP (watts)	1.910	0.480	0.570	4.190	56.510	195.960	152.110	25.240



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-41-54.0 N	085-41-07.0 W	286.5	90.2	1065560

Address: 403 Martin Subdivision

City: Tompkinsville County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.200	93.700	157.900	97.200	83.000	115.700	100.900	88.500
Transmitting ERP (watts)	1.070	0.260	0.340	2.530	33.930	116.960	90.270	14.390

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	36-42-45.0 N	084-29-53.0 W	388.0	128.0	1043060

Address: 2.7 KM SOUTHWEST OF

City: Whitley City County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	130.970	169.690	43.870	4.120	0.380	0.470	1.010	24.530

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	0.500	3.670	49.220	169.690	130.970	20.880	1.560	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.300	140.200	111.300	77.100	88.000	150.900	147.400	183.900
Transmitting ERP (watts)	9.490	0.470	0.380	0.490	10.890	86.030	187.140	82.160

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	37-07-32.0 N	085-18-48.0 W	243.2	128.0	1043061

Address: 2.1 KM North of

City: COLUMBIA County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	239.640	126.580	20.700	2.100	0.480	2.050	17.500	119.190

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	3.050	25.240	104.080	134.110	50.730	6.640	0.400	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.900	97.600	62.700	93.000	69.900	86.900	132.000	98.600
Transmitting ERP (watts)	3.170	0.300	0.350	6.140	45.530	132.880	110.500	28.320

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	36-47-11.0 N	085-23-02.0 W	261.5	96.0	1040490

Address: 0.8 KM WEST OF

City: BURKESVILLE County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	44.180	161.980	121.160	20.900	1.520	0.390	0.390	5.050

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	0.560	1.140	15.410	114.810	250.130	112.190	13.700	0.800

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	109.300	130.200	87.400	84.800	79.600	143.200	144.000	116.600
Transmitting ERP (watts)	42.590	4.040	0.390	0.390	2.230	22.340	121.440	153.980

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-59-14.9 N	085-04-03.0 W	300.2	77.4	1249806

Address: 263 N. Main St. (KY13172-A)

City: JAMESTOWN County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	131.780	61.330	9.560	0.760	0.650	5.540	28.840	110.190

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	6.950	33.550	98.830	109.490	46.690	7.510	0.630	0.950

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.700	75.100	111.400	128.200	123.100	114.300	81.000	84.000
Transmitting ERP (watts)	3.530	0.270	2.170	9.880	52.760	110.760	95.040	27.210

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-48-31.1 N	084-50-43.5 W	466.6	61.0	1004214

Address: 3.2 KM SSE OF

City: MONTICELLO County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	83.280	46.200	7.950	0.460	0.350	0.440	8.520	48.340

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	1.990	19.910	108.240	137.240	37.950	3.600	0.350	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	228.300	178.600	196.200	196.600	182.100	180.800	223.600	233.200
Transmitting ERP (watts)	1.460	0.330	0.430	3.080	30.780	77.930	65.130	15.620

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-48-09.1 N	085-49-35.8 W	307.8	128.0	1215547

Address: Within the City Limits of

City: Mt. Hermon County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	232.350	122.730	20.070	2.030	0.470	1.980	16.970	115.570

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	4.690	38.790	159.940	206.090	77.960	10.200	0.610	0.470

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	162.800	133.200	119.800	115.200	131.300	145.600	162.100	140.800
Transmitting ERP (watts)	3.360	0.320	0.370	6.500	48.220	140.750	117.050	30.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-11-42.5 N	085-57-13.0 W	267.6	99.1	1224165

Address: Highway 31 E

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	70.890	131.990	49.040	5.500	0.300	0.310	0.390	10.250

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	0.440	1.350	27.580	128.990	141.440	31.660	2.890	0.370

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	140.200	157.200	137.200	138.800	124.400	106.600	128.000	139.900
Transmitting ERP (watts)	12.040	0.810	0.300	0.340	3.810	42.710	126.050	81.390

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	36-53-08.5 N	086-01-21.5 W	219.5	77.7	1229912

Address: Barren River Lake, 1450 meters southeast of

City: Lucas County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	64.900	199.280	206.330	66.120	8.020	0.530	1.470	8.910

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	0.430	2.430	18.770	100.610	213.240	169.110	35.230	3.480

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.400	76.400	65.300	73.600	82.100	72.000	115.600	93.200
Transmitting ERP (watts)	115.020	18.140	1.460	0.580	6.420	36.290	153.840	208.960

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-04-08.3 N	084-59-07.6 W	301.8	58.0	

Address: Russell East, in the town of

City: Salem County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	45.240	155.980	120.380	19.190	1.430	0.350	0.460	3.370

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	0.350	0.450	10.100	79.080	172.010	75.520	8.720	0.430

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	81.400	40.400	50.100	92.000	90.100	70.500	49.200	57.100
Transmitting ERP (watts)	40.320	3.780	0.350	0.430	0.920	22.550	120.380	155.980

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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19 37-01-53.2 N 086-02-59.7 W

230.1

53.3

Address: Barren West, 1.1 km SE of intersection of Route 255 and Cumberland Parkway

City: Bon Ayr County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

48.000

59.100

62.400

62.000

76.300

71.700

67.700

68.900

Transmitting ERP (watts)

10.930

71.760

174.250

150.580

36.510

3.930

0.360

2.010

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

48.000

59.100

62.400

62.000

76.300

71.700

67.700

68.900

Transmitting ERP (watts)

1.660

0.370

3.640

24.330

110.220

166.180

109.490

18.120

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

48.000

59.100

62.400

62.000

76.300

71.700

67.700

68.900

Transmitting ERP (watts)

241.800

133.090

20.990

1.690

0.670

7.430

41.990

187.010

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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20 36-59-57.9 N 085-42-14.4 W

304.8

38.1

Address: Barren East, 1.5 km ESE of

City: Wisdom County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

83.800

114.600

79.500

77.500

56.000

94.100

87.900

92.000

Transmitting ERP (watts)

182.210

79.990

9.240

0.460

0.370

0.480

10.610

83.760

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

83.800

114.600

79.500

77.500

56.000

94.100

87.900

92.000

Transmitting ERP (watts)

3.340

55.130

223.280

203.210

38.060

3.110

0.540

0.700

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)

0

45

90

135

180

225

270

315

Antenna Height AAT (meters)

83.800

114.600

79.500

77.500

56.000

94.100

87.900

92.000

Transmitting ERP (watts)

2.970

0.370

0.470

1.480

30.120

143.340

153.910

33.100

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	36-52-38.0 N	085-39-59.1 W	347.5	42.4	

Address: 5 km east of

City: Summer Shade County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	2.890	26.340	135.690	168.870	47.270	4.440	0.480	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.700	116.600	133.500	131.800	89.700	109.800	135.900	112.700
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-04-40.6 N	085-10-27.6 W	299.0	86.9	1048811

Address: ADAIR EAST, 7955 RUSSELL SPRINGS ROAD

City: RUSSELL SPRINGS County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	112.350	104.850	19.980	1.660	0.300	0.350	1.660	27.580

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	0.350	5.720	51.470	125.910	71.710	11.750	0.560	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.600	66.400	51.500	64.800	80.000	101.700	115.200	90.300
Transmitting ERP (watts)	4.170	0.300	0.320	0.500	13.510	83.280	126.050	39.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-00-11.8 N	085-55-24.4 W	245.4	79.2	1223174

Address: Glasgow Downtown, 105 Lincoln Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	1.130	36.370	134.760	36.800	2.250	0.320	0.320	0.320

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	0.320	0.320	1.130	30.890	105.820	31.270	2.250	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.400	76.300	52.500	64.900	82.900	99.000	87.700	89.600
Transmitting ERP (watts)	4.260	0.320	0.320	0.320	0.470	22.310	148.580	69.130

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-02-38.7 N	085-27-43.8 W	296.5	77.7	1242039

Address: Metcalfe East, 8050 Edmonton Road (KY Hwy 80)

City: Edmonton County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	19.600	120.820	182.880	57.830	6.060	0.430	0.470	0.730

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	0.800	0.430	0.480	7.980	74.500	191.490	102.840	13.560

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	161.200	138.700	115.200	99.600	89.500	117.700	121.700	113.100
Transmitting ERP (watts)	152.110	28.980	2.410	0.430	0.500	2.410	40.010	162.990



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-16-37.2 N	085-53-34.8 W	190.0	38.0	

Address: Munfordville Downtown, water tank in the town of

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	63.100	70.030	39.580	9.860	0.660	0.940	8.500	37.380

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	2.430	11.890	72.190	167.790	144.670	35.900	4.030	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	17.850	1.800	0.480	4.050	25.570	109.870	157.100	105.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	36-43-19.8 N	085-57-41.8 W	249.9	35.0	

Address: Fountain Run WT, within the Town of

City: Fountain Run County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	2.930	27.060	138.120	171.340	47.630	4.290	0.480	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.200	29.900	29.900	48.100	45.100	49.200	59.500	79.500
Transmitting ERP (watts)	0.990	0.260	0.290	1.960	27.370	95.990	74.790	12.850

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-38-51.6 N	085-17-33.1 W	320.0	59.4	

Address: Dale Hollow, 2 km SSE of

City: Frogue County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	142.380	46.500	4.580	0.370	0.300	1.790	16.850	97.650

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	0.260	13.660	49.610	13.050	0.700	0.190	0.190	0.190

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.600	98.300	103.500	120.600	143.900	175.000	143.400	133.400
Transmitting ERP (watts)	0.310	0.190	0.190	0.190	0.680	23.200	45.240	7.010

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-23-18.7 N	085-45-39.7 W	238.7	77.7	1263443

Address: Jonesville, 3182 Pikeview Road

City: Magnolia County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	112.340	72.530	10.730	0.730	0.260	0.300	3.390	38.070

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	0.350	9.130	63.170	117.640	43.710	4.900	0.260	0.280

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.600	45.100	99.400	107.600	113.700	79.200	87.100	75.400
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	37-07-44.7 N	085-02-39.7 W	324.0	77.7	1257754

Address: Sycamore Flat, 309 Damon Creek Spur Road

City: Russell Springs County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	49.220	131.570	80.750	12.800	0.910	0.380	0.430	6.130

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	0.260	0.280	4.180	40.380	104.990	56.880	7.760	0.470

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.600	130.100	81.100	103.900	102.600	103.500	107.800	130.600
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	36-40-50.0 N	084-25-12.0 W	429.8	55.0	

Address: Pine Knot WT, 3.7 km NE of

City: Pine Knot County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	34.460	120.850	94.160	16.180	1.240	0.330	0.360	2.470

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	0.330	0.370	7.250	61.030	131.990	61.030	7.420	0.400

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	129.900	144.800	120.800	61.600	48.300	104.400	142.100	119.500
Transmitting ERP (watts)	33.670	3.250	0.330	0.350	0.710	16.940	92.010	120.850

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
31	37-11-40.7 N	085-20-55.2 W	250.5	77.7	1268209

Address: Cane Valley, 1600 Farris Road

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	33.690	28.880	6.680	0.500	0.270	0.720	7.520	29.560

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	1.670	19.770	92.360	113.930	32.500	3.360	0.270	0.400

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.700	83.900	79.000	67.800	85.300	97.600	112.100	124.200
Transmitting ERP (watts)	1.070	0.280	0.270	3.570	31.280	114.670	85.770	14.800

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-18-59.5 N	086-03-19.7 W	277.4	50.0	

Address: Cub Run WT, 1.25 km NNE of

City: Cub Run County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	0.800	19.520	104.850	135.070	36.350	3.470	0.330	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.300	94.100	62.500	94.500	93.900	94.900	119.500	122.500
Transmitting ERP (watts)	1.320	0.330	0.390	2.890	38.950	135.070	104.850	17.400

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-57-06.3 N	084-49-13.8 W	251.1	91.1	1203422

Address: Conley Bottom, 13.3 km North of

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	2.050	18.640	96.060	119.550	33.460	3.140	0.340	0.270

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	48.500	30.900	29.900	29.900	46.300	82.000	44.500
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-38-23.0 N	085-46-38.0 W	271.3	45.0	

Address: Gamaliel WT, 1.75 km East of

City: Gamaliel County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	263.850	136.600	17.700	1.020	0.540	0.670	11.130	103.240

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	5.290	57.720	173.330	110.860	15.750	1.050	0.370	0.470

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.300	35.300	29.900	36.900	61.400	52.700	77.300	68.100
Transmitting ERP (watts)	9.240	0.460	0.370	0.480	10.610	83.760	182.210	79.990

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-50-27.1 N	084-28-44.2 W	425.5	79.6	1233359

Address: 165 HWY 90 (KY13162-A)

City: Parkers Lake County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	2.890	33.620	100.380	66.750	9.990	0.680	0.260	0.280

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	0.260	0.260	0.330	7.940	56.880	104.990	40.380	4.580

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	163.500	149.600	145.400	136.000	86.200	163.400	148.700	171.200
Transmitting ERP (watts)	20.870	16.620	3.640	0.420	0.450	1.630	14.750	20.590

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	36-59-34.1 N	084-56-03.7 W	291.7	77.7	1259175

Address: Alligator, 15.3 km southeast of

City: Russell Springs County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	152.110	67.940	8.170	0.420	0.340	0.400	8.750	71.150

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	0.690	14.430	63.180	78.560	25.130	2.880	0.260	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	59.700	88.000	102.000	98.600	134.200	90.900	67.000
Transmitting ERP (watts)	1.140	0.260	0.340	2.400	26.930	78.560	63.180	12.860

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	37-19-35.7 N	085-45-55.6 W	227.1	77.7	1257254

Address: 5553 North Jackson Highway

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	122.700	78.480	11.150	0.740	0.260	0.340	3.750	40.860

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	0.280	0.380	9.920	69.800	128.750	47.020	5.070	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	51.400	77.900	102.200	109.800	95.200	105.800	54.500	60.400
Transmitting ERP (watts)	6.540	0.320	0.260	0.340	7.510	59.300	128.990	56.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	36-47-19.7 N	084-28-52.0 W	407.2	77.7	1258597

Address: Flat Rock, 72 Bryant Mill Road

City: Whitley City County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	100.380	66.750	9.990	0.680	0.260	0.280	2.890	33.620

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	0.260	0.410	10.460	65.230	100.380	32.860	3.400	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	132.400	146.800	120.400	90.700	160.300	195.600	179.100
Transmitting ERP (watts)	5.900	0.320	0.260	0.290	5.760	48.480	104.840	48.480

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	36-53-52.1 N	084-47-02.5 W	353.6	94.2	1238700

Address: Wayne NE, RR 2, Box 9516 (KY13178-A)

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.800	156.600	111.800	106.100	61.800	118.700	147.100	144.800
Transmitting ERP (watts)	73.090	95.990	26.740	2.580	0.260	0.270	0.570	13.450

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.800	156.600	111.800	106.100	61.800	118.700	147.100	144.800
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	36-48-41.0 N	085-07-47.0 W	297.2	91.1	1063507

Address: Grider Hill, in the City of

City: ALBANY County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	187.140	82.160	9.490	0.470	0.380	0.490	10.890	86.030

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	1.010	24.530	130.970	169.690	43.870	4.120	0.380	0.470

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.900	128.800	89.600	29.900	76.500	89.400	129.500	148.400
Transmitting ERP (watts)	1.560	0.380	0.500	3.670	49.220	169.690	130.970	20.880

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	36-50-24.2 N	085-56-34.3 W	236.8	77.7	1267267

Address: Cooktown, 47 Pitcock School Road

City: Austin County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	44.890	155.660	120.830	20.050	1.520	0.380	0.450	3.330



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	36-50-24.2 N	085-56-34.3 W	236.8	77.7	1267267

Address: Cooktown, 47 Pitcock School Road

City: Austin County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	0.260	0.310	6.770	55.020	117.640	52.550	6.320	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	102.100	83.800	69.100	67.600	75.700	91.300	106.100	110.000
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
42	37-05-29.1 N	085-36-52.2 W	242.9	77.7	1266731

Address: Sulphur Well, 9037 Greensburg Road

City: Edmonton County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	59.300	128.990	56.630	6.540	0.320	0.260	0.340	7.510

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	0.280	0.380	9.920	69.800	128.750	47.020	5.070	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	85.300	71.200	80.200	58.000	51.600	79.800	80.200
Transmitting ERP (watts)	18.570	1.520	0.260	0.340	1.630	26.900	108.950	99.160

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-13-36.2 N	085-48-48.7 W	214.6	77.7	1257256

Address: Bunnell Crossing, 2485 South Jackson Highway

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	69.800	128.750	47.020	5.070	0.260	0.280	0.380	9.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-13-36.2 N	085-48-48.7 W	214.6	77.7	1257256

Address: Bunnell Crossing, 2485 South Jackson Highway

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	0.260	0.340	3.750	40.860	122.700	78.480	11.150	0.740
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.900	94.700	77.500	69.300	79.200	71.800	80.500	77.900
Transmitting ERP (watts)	23.430	2.100	0.260	0.330	1.050	21.320	101.470	108.950

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
44	36-45-08.2 N	085-46-41.1 W	307.2	77.7	1263385

Address: Cedar Flats, 5612 Old Glasgow Road

City: Tompkinsville County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	106.060	51.260	7.470	0.440	0.270	0.880	9.090	54.930
Antenna: 2								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	2.230	17.650	79.600	97.130	30.270	3.270	0.390	0.270
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.400	99.600	106.800	108.800	139.200	126.700	120.300	112.600
Transmitting ERP (watts)	1.220	0.420	0.270	4.470	33.110	100.320	76.550	15.620

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-14-29.3 N	085-11-59.5 W	262.4	77.7	1274206

Address: Knifely, Tucker Warren Road

City: Knifley County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	114.480	130.660	49.070	6.770	0.450	0.620	5.460	32.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-14-29.3 N	085-11-59.5 W	262.4	77.7	1274206

Address: Knifely, Tucker Warren Road

City: Knifley County: ADAIR State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.500	61.000	48.800	63.400	69.100	84.500	114.900	92.200
Transmitting ERP (watts)	0.890	0.350	3.940	22.290	94.500	128.360	70.660	11.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
46	37-05-19.7 N	084-54-47.3 W	331.6	106.3	1232264

Address: Font Hill, 1101 Pine Top Road

City: RUSSELL SPRINGS County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	130.640	34.360	1.400	0.270	0.270	0.270	0.700	35.980

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	10.130	0.720	0.520	5.460	30.020	118.460	146.650	67.150

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	38.800	79.400	108.300	120.800	98.900	92.100	104.300
Transmitting ERP (watts)	0.270	0.270	0.700	35.980	130.640	34.360	1.400	0.270

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-58-11.8 N	085-26-00.6 W	343.8	77.7	1261657

Address: Sparksville, 330 Fire Dept Lane

City: Breeding County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	63.170	117.640	43.710	4.900	0.260	0.280	0.350	9.130

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-58-11.8 N	085-26-00.6 W	343.8	77.7	1261657

Address: Sparksville, 330 Fire Dept Lane

City: Breeding County: ADAIR State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	0.310	0.960	19.520	91.310	100.120	22.420	2.040	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	174.500	151.700	149.500	180.100	175.600	143.900	152.100	163.400
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	37-07-03.1 N	085-52-50.8 W	232.0	77.7	1250179

Address: Barren North, 645 Jack Turner Road

City: Cave City County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	55.020	117.640	52.550	6.320	0.320	0.260	0.310	6.770

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.600	97.500	78.800	56.400	66.700	81.000	89.000	73.900
Transmitting ERP (watts)	44.460	8.510	0.650	0.280	0.460	6.050	35.340	67.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-12-16.2 N	085-44-03.5 W	214.9	77.7	1263048

Address: Pascal, 2510 Hundred Acre Pond Road

City: Hardyville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	101.470	108.950	23.430	2.100	0.260	0.330	1.050	21.320

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-12-16.2 N	085-44-03.5 W	214.9	77.7	1263048

Address: Pascal, 2510 Hundred Acre Pond Road

City: Hardyville County: HART State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	0.340	7.510	59.300	128.990	56.630	6.540	0.320	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.900	96.700	73.200	62.000	53.400	78.500	81.200	83.500
Transmitting ERP (watts)	1.520	0.260	0.340	1.630	26.900	108.950	99.160	18.570

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-03-12.3 N	085-22-03.7 W	261.2	49.1	

Address: Flatwood, 1850 Bliss Road

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	183.340	121.920	18.240	1.250	0.480	0.510	5.290	61.410

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	3.440	31.560	132.880	120.360	23.780	1.930	0.370	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	61.100	61.900	52.600	38.500	29.900	48.000	88.900
Transmitting ERP (watts)	0.330	0.380	0.800	19.520	104.850	135.070	36.350	3.470

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	36-45-53.9 N	085-18-31.2 W	198.1	77.7	1257755

Address: Bear Creek, 4888 Albany Road

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	9.130	63.170	117.640	43.710	4.900	0.260	0.280	0.350

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	36-45-53.9 N	085-18-31.2 W	198.1	77.7	1257755

Address: Bear Creek, 4888 Albany Road

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	0.250	0.530	4.420	61.030	116.290	16.050	0.380	0.570

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	35.900	29.900	29.900	29.900	29.900	82.300	58.000
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	36-42-44.7 N	085-21-54.1 W	278.3	77.7	1275245

Address: Burkesville II, Clover Creek Drive

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	11.530	61.810	130.990	103.880	21.640	2.140	0.270	1.490

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	0.640	0.460	4.860	26.750	105.570	130.690	59.850	9.030

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.000	107.500	71.900	97.500	110.200	122.500	135.900	132.300
Transmitting ERP (watts)	130.690	59.850	9.030	0.640	0.460	4.860	26.750	105.570

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	36-46-19.7 N	084-57-43.8 W	320.0	60.7	

Address: Zula, Route 4 Box 330A

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	80.300	122.700	38.140	3.840	0.260	0.300	0.480	13.100

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	36-46-19.7 N	084-57-43.8 W	320.0	60.7	

Address: Zula, Route 4 Box 330A

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	0.340	3.750	40.860	122.700	78.480	11.150	0.740	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.300	79.400	64.000	29.900	47.800	39.400	81.000	143.200
Transmitting ERP (watts)	2.840	0.260	0.330	0.690	16.910	90.270	116.960	30.240

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-16.2 N	085-39-31.8 W	316.4	45.1	1273499

Address: Tompkinsville II, 182 Tom Ford Road

City: Tompkinsville County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	157.100	105.670	17.850	1.800	0.480	4.050	25.570	109.870

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	7.940	44.270	150.440	165.870	63.900	9.040	0.700	1.050

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.700	96.000	157.600	122.400	67.800	99.700	86.100	98.800
Transmitting ERP (watts)	4.030	0.340	2.430	11.890	72.190	167.790	144.670	35.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-06-16.0 N	085-26-55.1 W	242.0	77.7	1272696

Address: Milltown, 294 Ben Smith Road

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-06-16.0 N	085-26-55.1 W	242.0	77.7	1272696

Address: Milltown, 294 Ben Smith Road

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.100	80.000	94.100	60.700	39.400	50.000	64.200	80.400
Transmitting ERP (watts)	2.950	0.270	1.500	8.200	53.810	130.660	112.910	27.380

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	36-49-54.0 N	085-30-26.8 W	259.7	77.4	1263396

Address: Marrowbone, 9970 Glasgow Road (KY 11775-A)

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	107.290	83.280	13.820	1.050	0.260	0.310	2.290	30.940

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.500	59.800	109.700	100.500	118.200	69.900	45.800	67.300
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	36-49-02.3 N	084-54-11.6 W	308.8	67.1	1256099

Address: Monticello West, 3.2 km west of

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	13.100	80.300	122.700	38.140	3.840	0.260	0.300	0.480



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	36-49-02.3 N	084-54-11.6 W	308.8	67.1	1256099

Address: Monticello West, 3.2 km west of

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	0.260	0.280	0.380	9.920	69.800	128.750	47.020	5.070

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.700	71.600	33.000	29.900	29.900	44.700	87.700	110.900
Transmitting ERP (watts)	73.680	13.650	1.130	0.260	0.370	2.600	30.680	93.270

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-21-53.4 N	085-59-06.7 W	224.3	77.7	1279268

Address: Priceville, 6465 Raider Hollow Road

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	122.420	126.750	40.620	4.930	0.330	0.900	5.470	39.870

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	1.490	11.530	61.810	130.990	103.880	21.640	2.140	0.270

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	86.300	57.200	63.000	84.200	63.900	76.100	93.500	93.100
Transmitting ERP (watts)	11.140	0.890	0.350	3.940	22.290	94.500	128.360	70.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	36-55-11.8 N	085-46-09.4 W	281.6	60.7	

Address: 640 Spears Road

City: Eighty Eight County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	83.280	107.290	28.880	2.760	0.260	0.300	0.630	15.510

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	36-55-11.8 N	085-46-09.4 W	281.6	60.7	

Address: 640 Spears Road

City: Eighty Eight County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	0.300	4.900	45.770	117.640	63.170	8.330	0.490	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.700	80.500	60.000	52.300	80.600	106.300	140.000	84.000
Transmitting ERP (watts)	10.730	0.730	0.260	0.300	3.390	38.070	112.340	72.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
60	36-47-29.1 N	085-41-06.2 W	304.8	77.7	1258492

Address: Monroe North, 2543 John Eaton Road

City: Tompkinsville County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	112.340	72.530	10.730	0.730	0.260	0.300	3.390	38.070

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	0.290	0.450	12.040	74.220	112.340	35.530	3.720	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.500	125.700	119.500	131.700	96.800	116.700	93.400	125.200
Transmitting ERP (watts)	6.320	0.320	0.260	0.310	6.770	55.020	117.640	52.550

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	36-53-03.2 N	085-06-05.4 W	287.7	77.7	1254846

Address: Lake Cumberland Dam, 3.2 km south of

City: Freedom County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	170.670	76.240	9.170	0.470	0.380	0.450	9.820	79.830

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	36-53-03.2 N	085-06-05.4 W	287.7	77.7	1254846

Address: Lake Cumberland Dam, 3.2 km south of

City: Freedom County: RUSSELL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	0.920	22.500	120.830	155.660	41.900	4.000	0.380	0.440

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.300	122.800	93.300	119.500	87.000	111.600	154.900	86.500
Transmitting ERP (watts)	1.520	0.380	0.450	3.330	44.890	155.660	120.830	20.050

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
62	36-45-30.5 N	085-12-09.6 W	306.6	77.7	1258453

Address: Ida, Route 5, Box 473AA

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	78.620	88.210	8.620	0.340	0.240	0.240	0.240	4.520

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.900	117.200	66.500	76.800	116.300	109.600	166.800	149.300
Transmitting ERP (watts)	17.800	1.480	0.260	0.310	1.480	24.580	100.120	93.440

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-00-27.8 N	085-15-14.6 W	286.5	77.7	1278367

Address: 340 J. Brummett Road

City: Glens Fork County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	133.000	105.720	22.590	2.360	0.270	1.950	13.040	65.860

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File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-00-27.8 N	085-15-14.6 W	286.5	77.7	1278367

Address: 340 J. Brummett Road

City: Glens Fork County: ADAIR State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	4.510	24.420	99.090	128.840	72.230	11.760	1.030	0.510

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.300	86.800	79.000	82.200	122.700	100.800	68.500	113.500
Transmitting ERP (watts)	5.350	0.420	1.180	6.560	42.490	126.600	128.390	42.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
64	37-05-35.9 N	086-03-49.8 W	215.2	77.7	1275870

Address: 23190 Louisville Road

City: Park City County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	57.340	133.270	114.910	28.510	3.200	0.270	1.930	9.450

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	0.310	1.620	6.890	49.700	131.390	122.590	35.260	4.140

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	71.400	55.000	74.000	71.800	65.900	95.700	105.600	98.500
Transmitting ERP (watts)	72.230	11.760	1.030	0.510	4.510	24.420	99.090	128.840

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-04-01.1 N	085-50-36.0 W	249.3	74.4	1250180

Address: Hiseville, 26 Jack Smith Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	74.790	99.710	12.510	0.540	0.240	0.240	0.240	5.280

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File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-04-01.1 N	085-50-36.0 W	249.3	74.4	1250180

Address: Hiseville, 26 Jack Smith Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	3.940	22.290	94.500	128.360	70.660	11.140	0.890	0.350

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.300	98.100	70.600	54.300	71.800	96.100	89.000	109.300
Transmitting ERP (watts)	0.890	0.350	3.940	22.290	94.500	128.360	70.660	11.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
66	37-19-28.6 N	085-51-23.6 W	261.5	77.7	1263442

Address: Hinesdale, 785 Kirt Logsdon Road

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	83.280	107.290	28.880	2.760	0.260	0.300	0.630	15.510

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	0.350	9.130	63.170	117.640	43.710	4.900	0.260	0.280

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.200	83.500	121.800	134.000	140.300	151.300	92.900	107.500
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-10-38.0 N	085-55-14.4 W	280.1	77.7	1267522

Address: Horse Cave Downtown, 413 West Main Street

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	2.790	65.390	98.980	12.180	0.450	0.240	0.240	0.240

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-10-38.0 N	085-55-14.4 W	280.1	77.7	1267522

Address: Horse Cave Downtown, 413 West Main Street

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	0.240	0.240	0.270	16.050	108.530	50.760	2.790	0.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.700	148.100	149.200	139.100	134.300	143.800	130.200	158.900
Transmitting ERP (watts)	39.400	1.890	0.240	0.240	0.240	0.360	22.670	113.640

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
68	37-04-25.0 N	085-42-47.2 W	246.2	77.7	1260710

Address: 243 Harold Poynter Road

City: Knob Lick County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	116.290	30.590	1.250	0.240	0.240	0.240	0.620	32.030

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	12.040	74.220	112.340	35.530	3.720	0.260	0.290	0.450

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.000	88.700	80.700	66.000	38.100	60.300	78.700	107.700
Transmitting ERP (watts)	8.330	0.490	0.260	0.300	4.900	45.770	117.640	63.170

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
69	37-01-03.9 N	085-54-42.3 W	254.8	68.5	1230168

Address: Glasgow II, 156 Robert Bishop Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	80.450	63.170	11.630	0.910	0.260	0.260	1.680	22.420

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
69	37-01-03.9 N	085-54-42.3 W	254.8	68.5	1230168

Address: Glasgow II, 156 Robert Bishop Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	0.510	11.360	61.740	82.330	23.470	2.370	0.260	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.800	97.200	66.700	75.200	101.000	116.100	103.100	98.800
Transmitting ERP (watts)	1.060	0.240	0.240	0.240	2.850	44.210	63.910	11.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
70	36-59-35.6 N	085-46-20.7 W	256.3	106.4	1248189

Address: Slick Rock, 1636 Beaver Creek Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	13.820	74.230	95.620	25.740	2.460	0.240	0.270	0.560

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	0.240	0.280	6.030	49.040	104.850	46.830	5.630	0.290

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.300	80.400	81.500	50.600	92.700	113.300	106.000	103.200
Transmitting ERP (watts)	10.240	0.670	0.240	0.240	4.070	34.450	104.820	65.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
71	36-53-29.8 N	085-50-49.9 W	237.4	60.6	

Address: Temple Hill, 215 Peden-Matthews Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	30.940	107.290	83.280	13.820	1.050	0.260	0.310	2.290

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
71	36-53-29.8 N	085-50-49.9 W	237.4	60.6	

Address: Temple Hill, 215 Peden-Matthews Road

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	0.380	0.450	9.820	79.830	170.670	76.240	9.170	0.470

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.300	45.800	38.900	59.200	48.200	58.600	85.800	82.100
Transmitting ERP (watts)	41.900	4.000	0.380	0.440	0.920	22.500	120.830	155.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
72	36-50-21.2 N	085-36-18.3 W	268.2	77.7	1261655

Address: Willow Shade, 680 N.C. Hurt Road

City: Tompkinsville County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	19.520	91.310	100.120	22.420	2.040	0.260	0.310	0.960

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.200	72.500	122.700	127.900	90.600	44.500	58.900	42.500
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
73	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: Cartwright, Old Hwy 90 (KY10655-A)

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	131.390	122.590	35.260	4.140	0.310	1.620	6.890	49.700



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
73	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: Cartwright, Old Hwy 90 (KY10655-A)

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	2.180	16.200	75.640	129.140	95.070	17.850	1.750	0.270

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.900	140.200	105.000	45.800	77.300	86.000	132.200	171.200
Transmitting ERP (watts)	9.560	0.760	0.650	5.540	28.840	110.190	131.780	61.330

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
74	37-05-28.2 N	085-18-03.9 W	251.4	93.2	1228813

Address: Columbia II, 1117 Gaston Ave.

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	3.730	15.320	11.730	14.350	8.940	0.760	0.260	0.260

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	0.490	0.260	0.300	4.900	45.770	117.640	63.170	8.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	84.700	76.800	55.100	72.700	59.500	47.200	97.600	100.900
Transmitting ERP (watts)	12.770	12.150	3.620	0.260	0.270	0.520	7.080	13.060

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
75	36-39-32.1 N	085-36-54.3 W	314.6	77.7	1278911

Address: Hestand, 150 H. Spears Road

City: Hestand County: MONROE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
75	36-39-32.1 N	085-36-54.3 W	314.6	77.7	1278911

Address: Hestand, 150 H. Spears Road

City: Hestand County: MONROE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	0.230	4.050	48.030	38.780	3.370	0.230	0.230	0.230

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.100	199.100	169.300	169.200	113.100	113.800	129.800	107.000
Transmitting ERP (watts)	0.300	0.270	0.270	0.270	7.860	98.980	82.330	6.390

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
76	37-01-28.9 N	085-56-25.6 W	200.3	38.1	1271460

Address: Glasgow III, 3576 Vetrans Outer Loop

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	2.050	33.870	137.170	124.840	23.380	1.910	0.330	0.430

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	0.630	0.330	0.410	6.840	63.420	162.090	83.920	10.870

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	46.700	29.900	29.900
Transmitting ERP (watts)	154.470	48.010	4.830	0.330	0.380	0.600	16.490	101.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
77	36-56-37.0 N	086-00-52.0 W	218.9	91.1	1063506

Address: BARREN RIVER LAKE

City: HAYWOOD County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	101.050	42.130	4.720	0.240	0.240	0.610	5.870	42.130

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
77	36-56-37.0 N	086-00-52.0 W	218.9	91.1	1063506

Address: BARREN RIVER LAKE

City: HAYWOOD County: BARREN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	3.390	28.830	96.130	59.190	8.040	0.390	0.240	0.350

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.800	87.700	78.400	83.300	98.200	130.100	114.100	96.200
Transmitting ERP (watts)	0.620	0.240	0.340	2.410	23.740	91.110	68.010	10.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
78	36-58-44.0 N	085-36-47.0 W	249.9	45.7	

Address: Edmonton Downtown Water Tank, in the town of

City: Edmonton County: METCALFE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.500	29.900	29.900	29.900	29.900	29.900	29.900	42.000
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
79	36-52-32.5 N	085-24-08.7 W	265.2	77.7	1275158

Address: Smith Bridge, 7031 Columbia Road

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN814

File Number: 0009262182

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
79	36-52-32.5 N	085-24-08.7 W	265.2	77.7	1275158

Address: Smith Bridge, 7031 Columbia Road

City: Burkesville County: CUMBERLAND State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	1.250	0.280	2.730	18.240	82.650	124.610	82.100	13.580

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.900	83.800	118.700	123.800	120.900	128.700	92.600	76.800
Transmitting ERP (watts)	93.210	17.180	1.520	0.270	1.720	14.250	71.470	128.360

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
80	36-46-19.8 N	084-45-59.0 W	351.7	77.7	1271461

Address: Coopersville, 145 Abbott Road

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	3.330	29.550	115.490	103.170	20.970	1.630	0.360	0.270

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	0.280	0.270	3.570	31.280	114.670	85.770	14.800	1.070

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	67.900	149.400	100.200	78.600	97.200	29.900	101.300	118.700
Transmitting ERP (watts)	11.150	0.740	0.260	0.340	3.750	40.860	122.700	78.480

Control Points:

Control Pt. No. 1

Address: 316-W LINCOLN TRAIL

City: RADCLIFF County: State: KY Telephone Number:

Waivers/Conditions:

NONE

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WPZV473), File Number (0010160221), and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WPZV473

**File Number:** 0010160221

**Print Date:** 02-15-2023

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA718), File Number (0009793647), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA718

**File Number:** 0009793647

**Print Date:** 02-23-2022

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA959), File Number (0009775569), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA959

**File Number:** 0009775569

**Print Date:** 01-05-2022

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQJQ692), File Number, and Radio Service (WU - 700 MHz Upper Band (Block C)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQJQ692

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY  
CELLCO PARTNERSHIP  
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING  
ALPHARETTA, GA 30022

<b>Call Sign</b> WQVN764	<b>File Number</b>
<b>Radio Service</b> AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 04-08-2015	<b>Effective Date</b> 02-24-2017	<b>Expiration Date</b> 04-08-2027	<b>Print Date</b>
<b>Market Number</b> BEA071	<b>Channel Block</b> H	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Nashville, TN-KY			
<b>1st Build-out Date</b> 04-08-2021	<b>2nd Build-out Date</b> 04-08-2027	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQVN764

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY  
CELLCO PARTNERSHIP  
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING  
ALPHARETTA, GA 30022

<b>Call Sign</b> WQVN765	<b>File Number</b>
<b>Radio Service</b> AT - AWS-3 (1695-1710 MHz, 1755-1780 MHz, and 2155-2180 MHz)	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 04-08-2015	<b>Effective Date</b> 02-24-2017	<b>Expiration Date</b> 04-08-2027	<b>Print Date</b>
<b>Market Number</b> BEA071	<b>Channel Block</b> 1	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Nashville, TN-KY			
<b>1st Build-out Date</b> 04-08-2021	<b>2nd Build-out Date</b> 04-08-2027	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQVN765

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY  
CELLCO PARTNERSHIP  
5055 NORTH POINT PKWY, NP2NE ENGINEERING  
ALPHARETTA, GA 30022

<b>Call Sign</b> WRBB976	<b>File Number</b> 0009262037
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 07-09-2019	<b>Effective Date</b> 01-13-2021	<b>Expiration Date</b> 08-09-2029	<b>Print Date</b> 03-10-2021
<b>Market Number</b> BTA052	<b>Channel Block</b> L1	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green-Glasgow, KY			
<b>1st Build-out Date</b> 06-01-2024	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRBB976

**File Number:** 0009262037

**Print Date:** 03-10-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WREV449), File Number (0009262184), and Radio Service (UU - Upper Microwave Flexible Use Service)

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WREV449

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WREV451), File Number (0009262184), and Radio Service (UU - Upper Microwave Flexible Use Service)

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WREV451

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WREV453), File Number (0009262184), and Radio Service (UU - Upper Microwave Flexible Use Service)

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WREV453

**File Number:** 0009262184

**Print Date:** 03-11-2021

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY  
CELLCO PARTNERSHIP  
5055 NORTH POINT PKWY, NP2NE ENGINEERING  
ALPHARETTA, GA 30022

<b>Call Sign</b> WRHF210	<b>File Number</b> 0010283156
<b>Radio Service</b> UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 06-04-2020	<b>Effective Date</b> 11-18-2022	<b>Expiration Date</b> 06-04-2030	<b>Print Date</b> 03-15-2023
<b>Market Number</b> PEA112	<b>Channel Block</b> M1	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Bowling Green, KY			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRHF210

**File Number:** 0010283156

**Print Date:** 03-15-2023

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRNF682), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRNF682

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRNF687), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

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**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRNF687

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with 2 columns: Call Sign (WRWD818), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with 4 columns: Grant Date (09-23-2022), Effective Date (09-23-2022), Expiration Date (12-18-2036), Print Date, Market Number (BEA071), Channel Block (C), Sub-Market Designator (10), Market Name (Nashville, TN-KY), 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WRWD818

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Reference Copy

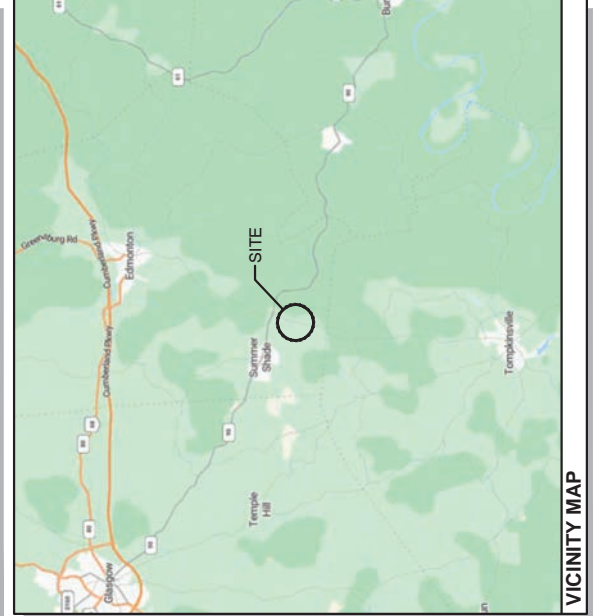




**TAG TOWERS, LLC**  
**108 FORBES COURT, SUITE 1**  
**RICHMOND, KY 40475**  
**859.544.5000 (PH)**

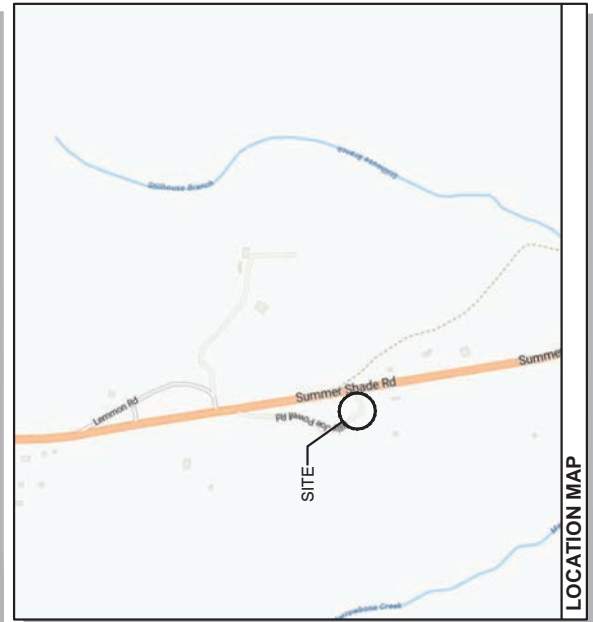
**NEW 255' TYPE TOWER**  
**W/4' LIGHTNING ROD**  
**TOTAL TOWER HEIGHT 259'**

<b>TOWER OWNER SITE</b> CK WILLOW SHADE WEST SITE #: KY-2002	<b>POLICE</b> METCALFE COUNTY SHERIFF DEPARTMENT PHONE: (270) 432-3041
<b>VERIZON WIRELESS SITE</b> CK WILLOW SHADE WEST PROJECT#: 16933259 MARKET ID: MINKY WDG#: 5000907691	<b>FIRE</b> SUMMER SHADE VOLUNTEER FIRE DEPARTMENT PHONE: (270) 428-3322
<b>SITE ADDRESS</b> 6981 KY-90 SUMMER SHADE, KY 42166 METCALFE COUNTY E911 ADDRESS: TBD	<b>GENERAL INFORMATION</b> LATITUDE - 36° 51' 21.64" N LONGITUDE - 85° 38' 35.2" W 1983 (NAD83) ELEVATION - 955.7' AMSL 1988 (NAVD88)
<b>TOWER OWNER</b> TAG TOWERS, LLC 108 FORBES COURT, SUITE 1 RICHMOND, KY 40475 PHONE: (859) 544-5000	<b>TOWER OWNER LEASE AREA</b> 100'-0" x 100'-0" (10000 SF)
<b>PROPERTY OWNER</b> JENT PAULETTA P O BOX 282 VICCO, KY 41773 ETTEJENT@GMAIL.COM 606-216-5058 OR 606-854-8825	<b>VERIZON WIRELESS LEASE AREA</b> 500 SQ. FT.
<b>PROJECT TOTAL DISTURBED AREA</b> COMPOUND: 4500 SF (0.10 ACRE) ACCESS DRIVE+UTILITY: 8288.99 SF (0.19 ACRE) GROSS AREA: 12788.99 SF (0.29 ACRE)	
<b>PROJECT SUMMARY</b> ALL CONSTRUCTION ITEMS ARE TO BE COMPLETED BY THE TOWER OWNER GENERAL CONTRACTOR UNLESS NOTED AS (VZW GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR.	



**VICINITY MAP**

<b>PROJECT DESCRIPTION:</b> NOTE-ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. SPECIFICALLY DESCRIBED BELOW: <b>TOWER OWNER SCOPE:</b> • INSTALL A NEW 255' SELF SUPPORT TOWER w/ 4' LIGHTNING ROD (TOTAL 259') • INSTALL NEW CONCRETE FOUNDATION SYSTEM • INSTALL A NEW 60'X75' FENCED GRAVEL COMPOUND • INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE UTILITY H-FRAME • NO WATER OR SEWAGE SERVICES RUN TO SITE • INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM • INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM • INSTALL NEW VZW CONCRETE EQUIPMENT AND GENERATOR PADS • INSTALL NEW VZW EQUIPMENT H-FRAME AND FOUNDATIONS • INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME • THE GENERATOR STUB-UP AT VZW GENERATOR PAD • INSTALL (1) NEW VERIZON WIRELESS ONLY FIBER OPTIC CONDUIT WITH INTEGRAL EQUIPMENT TO NEW VERIZON WIRELESS ONLY 24"X36" HAND HOLE AT COMPOUND THEN TO NEW VERIZON WIRELESS ONLY 24"X36" HAND HOLE AT PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY. <b>VERIZON WIRELESS SCOPE (VZW GC):</b> • INSTALL VZW PREFABRICATED CANOPY AND FOUNDATIONS • INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER • INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT • INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES ENCLOSURE • INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE • PULL ALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME UTILITY LOCATION • INSTALL NEW CONDUITS AND CIRCUITS FROM VZW ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZW EQUIPMENT PAD • INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR • INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME
<b>PROJECT DESCRIPTION</b>



**LOCATION MAP**

<b>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</b>	
<b>BUILDING CODE</b> 2018 KENTUCKY BUILDING CODE (IBC 2015) <b>STRUCTURAL CODE</b> TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2) <b>MECHANICAL CODE</b> 2015 INTERNATIONAL MECHANICAL CODE (IMC 2015) <b>PLUMBING CODE</b> KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20) <b>ELECTRICAL CODE</b> 2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70 <b>FIRE/LIFE SAFETY CODE</b> 2015 INTERNATIONAL FIRE CODE (2015 IFC) <b>ENERGY CODE</b> 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL) <b>GAS CODE</b> 2012 NATIONAL FUEL GAS CODE (NFPA 54)	
<b>ACCESSIBILITY REQUIREMENTS:</b> FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.	
<b>APPLICABLE CODES</b>	
<b>SURVEYOR</b> FASTAN 1012 S 4TH STREET, SUITE 101 LOUISVILLE, KY 40203	<b>ENGINEER</b> DMITRY ALBUL, P.E. OFFICE PH: (716) 800-1364 MOBILE PH: (716) 650-8147 EMAIL: DALBUL@ALBULENG.COM
<b>ELECTRICAL</b> TBD	<b>ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.</b>
<b>CONSULTANT TEAM</b>	



**AERIAL**

# CK WILLOW SHADE WEST

**723518**  
**6981 KY-90**  
**SUMMER SHADE, KY 42166**  
**METCALFE COUNTY**  
**TENANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS**  
**"CK WILLOW SHADE WEST"**  
**BUILDING #:**

FROM DIRECTIONS FROM 201 N MAIN ST, EDMONTON, KY 42129:

HEAD EAST ON N MAIN ST TOWARD US-68 E / KY-80 / S MAIN ST, 135 FT, TURN RIGHT ONTO US-68 W / KY-80 / S MAIN ST, 167 FT, KEEP STRAIGHT TO GET ONTO KY-163 / S MAIN ST, 8.3 MI, TURN LEFT ONTO KY-90 / SUMMER SHADE RD, 2.2 MI, ARRIVE AT, 6981 KY-90, SUMMER SHADE, KY 42166

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
LS-1 TO LS-3	SURVEY PLAN
<b>CONUL</b>	
C-0	OVERALL SITE PLAN
C-1	OVERALL SITE PLAN W/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN W/TOWER LEG DISTANCE TO PROPERTY LINES
C-1B	OVERALL SITE PLAN W/TOWER LEG DISTANCE TO RESIDENTIAL STRUCTURES
C-2	GRADING AND EROSION CONTROL OVERALL PLAN
C-2.1	GRADING AND EROSION CONTROL OVERALL PLAN DETAILED SITE PLAN
C-3	DIMENSIONED SITE PLAN
C-4	DETAILED VZW EQUIPMENT PLAN
C-5	GENERAL SITE CONSTRUCTION NOTES
C-6	BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES
C-7	FENCE DETAILS AND NOTES
D-1	SITE DETAILS
D-2	EQUIPMENT PAD & CANOPY ELEVATIONS
D-3	VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)
D-4	TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)
D-5	
<b>STRUCTURAL</b>	
S-1	EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES
S-2	ICE BRIDGE PLAN AND DETAILS
S-3	FOUNDATION PLAN AND DETAILS
<b>TOWER ELEVATION</b>	
TE-1	TOWER ELEVATION
<b>ELECTRICAL</b>	
E-1	SITE UTILITY PLAN
E-2	PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS
E-3	EQUIPMENT PAD UTILITY PLAN & EQUIPMENT PAD TRENCH SECTIONS
E-4	OVP & INTEGRATED LOAD CENTER H-FRAME ELEVATIONS AND DETAILS
E-5	ELECTRICAL DETAILS
E-6	EQUIPMENT CABINET ELEVATIONS
E-7	EQUIPMENT PAD LIGHTING PLAN
E-8	ALARMING TABLE AND DETAILS (REFERENCE ONLY)
E-9	ALARMING DIAGRAMS AND DETAILS (REFERENCE ONLY)
E-10	ALARM AND FIBER CABLE ROUTING (REFERENCE ONLY)
<b>GROUNDING</b>	
G-1	GROUNDING SITE PLAN
G-2	GROUNDING NOTES
G-3	VERIZON WIRELESS GROUNDING PLAN AND NOTES
G-4	GROUNDING DETAILS
G-5	GROUNDING DETAILS
G-6	GROUNDING DETAILS
<b>REFERENCE DRAWINGS</b>	
RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
REF-1	GENERATOR SPECIFICATIONS (REFERENCE ONLY)
<b>PSC MAP</b>	
PSC MAP -1	
PSC MAP -2	

<b>SITE INFORMATION:</b> 03-28-24
<b>CK WILLOW SHADE WEST</b> 6981 KY-90 SUMMER SHADE, KY 42166 METCALFE COUNTY
<b>SITE NUMBER:</b> 723518
<b>SITE NAME:</b> CK WILLOW SHADE WEST
<b>PID NUMBER:</b> 16933259
<b>DRAWN BY:</b> RC
<b>CHECKED BY:</b> PL
<b>DATE:</b> 11.29.23
<b>SHEET TITLE:</b> PROJECT INFORMATION, SITE MAPS, SHEET INDEX
<b>SHEET NUMBER:</b> T-1



**TAG TOWERS, LLC**  
**108 FORBES COURT, SUITE 1**  
**RICHMOND, KY 40475**  
**859.544.5000 (PH)**



**LAB**  
 49030 Pontiac Trail, Suite 100  
 Wixom, Michigan 48393  
 PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
O	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



<b>CK WILLOW SHADE WEST</b> 6981 KY-90 SUMMER SHADE, KY 42166 METCALFE COUNTY
<b>SITE NUMBER:</b> 723518
<b>SITE NAME:</b> CK WILLOW SHADE WEST
<b>PID NUMBER:</b> 16933259
<b>DRAWN BY:</b> RC
<b>CHECKED BY:</b> PL
<b>DATE:</b> 11.29.23
<b>SHEET TITLE:</b> PROJECT INFORMATION, SITE MAPS, SHEET INDEX
<b>SHEET NUMBER:</b> T-1

- PREMISES
- TITLE NOTES
- FLOOD ZONE DATA
- VICINITY MAP

**COORDINATE POINT LOCATION**

NAD 1983  
 LATITUDE: 36° 51' 21.64" N  
 LONGITUDE: 85° 38' 35.20" W  
 NAD 1988  
 ELEVATION: 955.7  
 SINGLE STATE PLANE COORDINATE  
 (BLUE MARBLE GEOGRAPHIC  
 CALCULATOR VERSION 3.0)  
 NORTHING: 3471174.242  
 EASTING: 4952525.300

**PROJECT BENCHMARK**

NORTH: 3471688.982  
 EAST: 4952511.952  
 ELEVATION: 968.03  
 LOCATION: BEING A 3/8" REBAR WITH RED  
 CAP 21" NORTHEAST OF THE  
 EAST GATE POST.

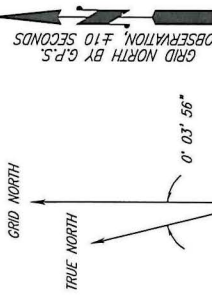
**SYMBOL LEGEND**

- HOOD POWER POLE
- CONCRETE POWER POLE
- METAL TRAFFIC POLE
- LIGHT POLE
- GUY POLE
- TELEPHONE PEDESTAL
- ROW RIGHT OF WAY
- CENTERLINE
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- FENCE POST
- SPOT ELEVATION
- BOTTOM OF CURB
- POINT OF COMMENCING (UNLESS OTHERWISE NOTED)
- POINT OF BEGINNING (UNLESS OTHERWISE NOTED)
- IRON PIN CAPPED

**LINE LEGEND**

- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- DRAINAGE/STORM SEWER LINE
- EXISTING FENCE
- PROPOSED FENCE
- DITCH / SWALE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE

NOTE: SYMBOLS, ABBREVIATIONS, OR LINES/STYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE.



NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON FEBRUARY 21, 2023.

RICHARD A & CLAIRE RITTER  
 M.C.B. 5, PG. 609  
 PAR. #042-00-00-012.00

EMANUEL & FANNIE HOSTETLER  
 D.B. 136, PG. 5  
 PAR. #042-00-00-015.01

JOSHUA L ADAMS  
 D.B. 156, PG. 415  
 PAR. #042-00-00-013.04

PAULETTA JENT  
 D.B. 165, PG. 331, TRACT I  
 PAR. #042-00-00-014.02

HEATHER L & JUDY ANN NORRIS  
 D.B. 174, PG. 857  
 PAR. #042-00-00-019.03

MOITLEY TRADING CO, LLC  
 BRADLEY S. DUBREE  
 D.B. 168, PG. 880  
 PAR. #042-00-00-019.01

RYTER FARMS, INC  
 JAMES RYTER, PRESIDENT  
 D.B. 113, PG. 298  
 PAR. #042-00-00-013.00

BILLY JOE POWELL ROAD  
 SCALED FOR SURVEY DATED: 05-14-02  
 BY: JOE R. LETTINCH, PLS #3013

ACCESS & UTILITY EASEMENT  
 (23,771.79 SQ.FT.)

UTILITY EASEMENT  
 (847.34 SQ.FT.)

LEASE AREA  
 (10,000.00 SQ.FT.)

COORDINATE POINT

PAULETTA JENT  
 D.B. 165, PG. 331, TRACT II  
 PAR. #042-00-00-014.02



**Know what's below. Call before you dig.**  
 The utility information shown on this plat prepared by FSTAN was obtained from existing records and/or by field location. It is the contractor's responsibility to verify the location and depth of all utilities with the appropriate utility company for final locations.

MATTHEW & CHRISTIE MOREHEAD  
 D.B. 157, PG. 437  
 PAR. #042-00-00-015.00

PAULETTA JENT  
 D.B. 165, PG. 331, TRACT I  
 PAR. #042-00-00-014.02

RYTER FARMS, INC  
 JAMES RYTER, PRESIDENT  
 D.B. 113, PG. 298  
 PAR. #042-00-00-013.00

HEATHER L & JUDY ANN NORRIS  
 D.B. 174, PG. 857  
 PAR. #042-00-00-019.03

MOITLEY TRADING CO, LLC  
 BRADLEY S. DUBREE  
 D.B. 168, PG. 880  
 PAR. #042-00-00-019.01

RYTER FARMS, INC  
 JAMES RYTER, PRESIDENT  
 D.B. 113, PG. 298  
 PAR. #042-00-00-013.00

BILLY JOE POWELL ROAD  
 SCALED FOR SURVEY DATED: 05-14-02  
 BY: JOE R. LETTINCH, PLS #3013

ACCESS & UTILITY EASEMENT  
 (23,771.79 SQ.FT.)

UTILITY EASEMENT  
 (847.34 SQ.FT.)

LEASE AREA  
 (10,000.00 SQ.FT.)

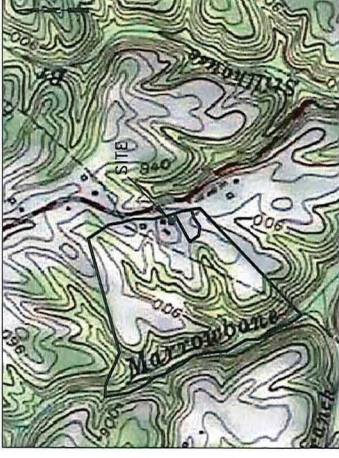
COORDINATE POINT

PAULETTA JENT  
 D.B. 165, PG. 331, TRACT II  
 PAR. #042-00-00-014.02

HEATHER L & JUDY ANN NORRIS  
 D.B. 174, PG. 857  
 PAR. #042-00-00-019.03



QUAD MAP SCALE: 1" = 2000'



**LOCATION DESCRIPTION**  
 LOCATED ON THE PROPERTY CONVEYED TO PAULETTA JENT IN DEED BOOK 165, PAGE 331, TRACT I, AND BE LOCATED ON THE WEST LINE OF STATE HIGHWAY 90 IN METCALFE COUNTY, KENTUCKY.

THIS SITE IS LOCATED ON THE SULPHUR LICK KENTUCKY USGS QUADRANGLE SHEET.

The horizontal datum (coordinates) is referenced to the North American Datum 1983 (NAD 83) and is expressed in terms of latitude and longitude in degrees, minutes, seconds, and decimal parts thereof, and is accurate to within 15 feet horizontally. The site vertical datum (elevations and benchmark) is in terms of the North American Vertical Datum of 1988 (NAVD 88) and is accurate to within +/- .3 feet vertically.

**SURVEYORS NOTES**

SOURCE OF BEARING AND ELEVATION IS A GPS OBSERVATION ON FEBRUARY 21, 2023. FINAL GPS CONTINGUOUS OPERATING REFERENCE STATION DESIGNATION - ONE HOLLOW SPR CORRS APP. CORRS\_ID - KYNB, PD - DK7555.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR ABIGRAVITIES IN THE TITLE OF THE PARENT TRACT.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.

**SURVEYOR'S REVIEW OF "SPECIAL EXCEPTIONS"**  
 NOTES CORRESPONDING TO THE FIDELITY NATIONAL TITLE INSURANCE COMPANY, "COMMITMENT FOR TITLE INSURANCE", ORDER NUMBER: 38017988 AND REFERENCE NUMBER: CK WILLOW SHADE WEST, EFFECTIVE DATE: 11/08/2022. (THERE ARE NO SURVEY ISSUES)



**LAND SURVEYOR'S CERTIFICATE**

TYPE "A" SURVEY: UNADJUSTED TRANSVERSE CLOSURE BETTER THAN 1 IN 10,000.  
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.  
 This survey and plat meets or exceeds the minimum standards of the governing authorities.  
 This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II  
 KY. Reg. No. 3282

**"WIRELESS COMMUNICATION SITE SURVEY"**

OWNER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TENANT APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21169C0250C DATED 05/03/2010 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".



SCALE: 1" = 300' (IN FEET)



1012 S 4th Street, Suite 101  
 Louisville, Ky 40203  
 Phone: (502) 636-5111  
 Fax: (502) 636-5263

SITE NUMBER: 723518

SITE NAME: CK WILLOW SHADE WEST

SITE ADDRESS: KY HWY 90  
 SUMMER SHADE, KY 42166

LEASE AREA: 10,000.00 SQ.FT.

PROPERTY OWNER: PAULETTA JENT  
 PO BOX 282  
 WCCO, KY 41773

PARCEL NUMBER: 042-00-00-014.02

SOURCE OF TITLE: D.B. 165, PG. 331, TRACT I

DWG BY: SNS FIELD DATE: DRAFT DATE:  
 CHKD BY: FLS 02.21.23 03.16.23

FSTAN PROJECT NO.: 22-11666

SHEET 1 OF 3

**REVISIONS:**

ACC. ESMT - 11.09.23 - 2311916

RAWLAND

- PREMISES
- LEGAL DESCRIPTIONS
- FLOOD ZONE DATA
- VICINITY MAP

**COORDINATE POINT LOCATION**

AND 1983  
 NORTH: 3471668.982  
 EAST: 4952511.952  
 ELEVATION: 968.03  
 LOCATION: BEING A 3/4" REBAR WITH RED CAP 21' NORTHEAST OF THE EAST GAIE POST.

**PROJECT BENCHMARK**

NORTH: 3471668.982  
 EAST: 4952511.952  
 ELEVATION: 968.03  
 LOCATION: BEING A 3/4" REBAR WITH RED CAP 21' NORTHEAST OF THE EAST GAIE POST.

**SYMBOL LEGEND**

- HOOD POWER POLE
- CONCRETE POWER POLE
- METAL TRAFFIC POLE
- LIGHT POLE
- GUY POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- FENCE POST
- SPOT ELEVATION
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

**LINE LEGEND**

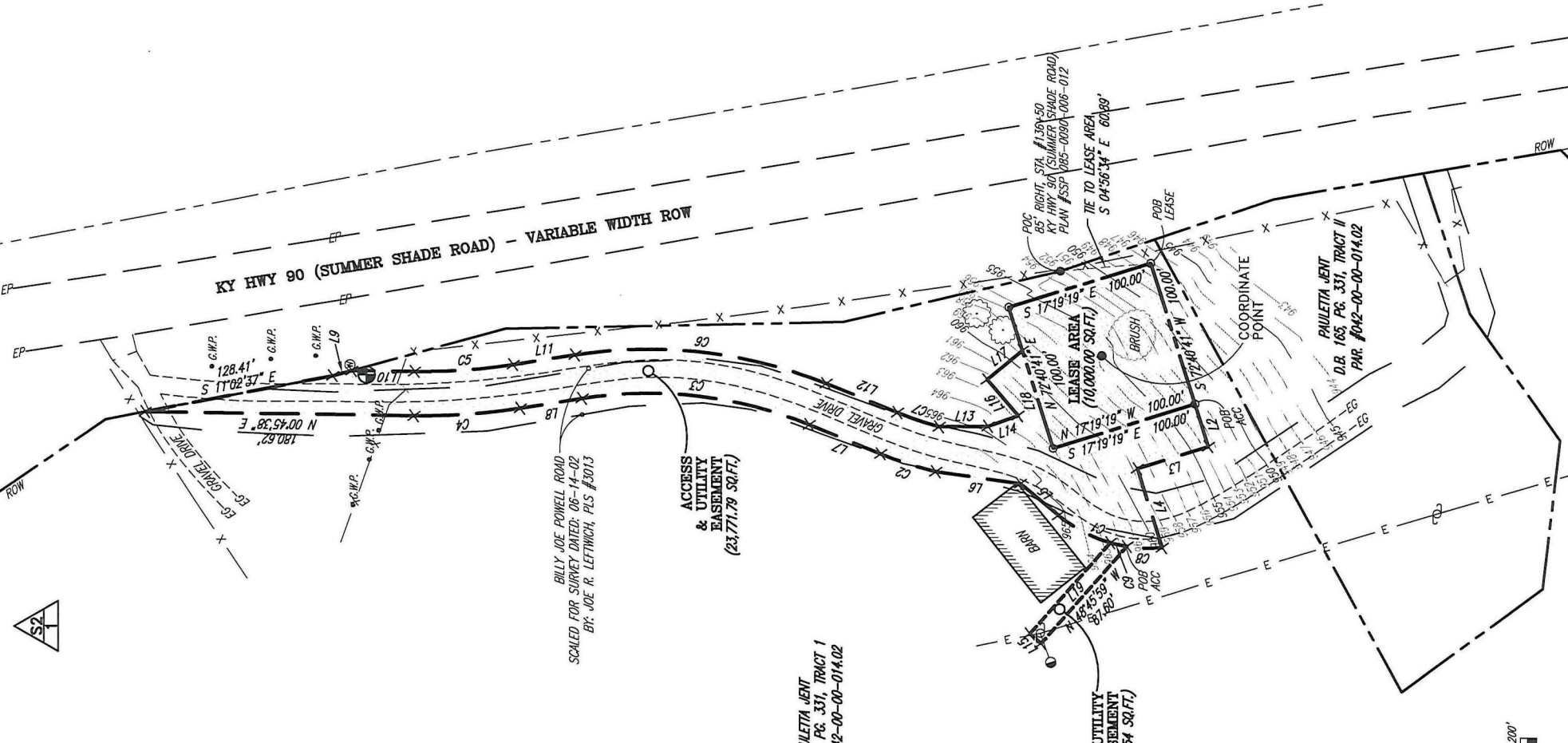
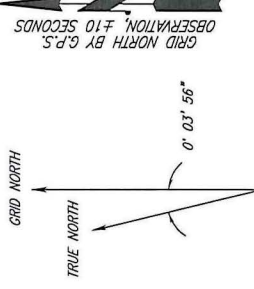
- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- DRAINAGE/STORM SEWER LINE
- EXISTING FENCE
- PROPOSED FENCE
- DITCH / SWALE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE

NOTE: SYMBOLS, ABBREVIATIONS OR LINESTYLES DO NOT NECESSARILY APPEAR ON DRAWINGS. USE ONLY AS APPLICABLE.

LINE	BEARING	DISTANCE
L2	S 72°40'41" W	30.00'
L3	N 17°19'19" W	50.00'
L4	S 72°40'41" W	56.16'
L5	N 40°07'55" E	33.45'
L6	N 08°00'44" E	57.55'
L7	N 22°11'45" E	51.85'
L8	N 09°08'38" W	42.06'
L9	S 15°29'56" E	13.32'
L10	S 00°45'58" W	42.13'
L11	S 09°08'38" E	42.06'
L12	S 22°11'45" W	51.85'
L13	S 09°27'56" E	32.91'
L14	S 19°25'41" E	21.48'
L15	N 41°14'01" E	10.00'
L16	N 49°35'42" E	32.01'
L17	S 39°59'34" E	30.86'
L18	S 72°40'41" W	69.35'
L19	S 49°45'59" E	82.16'

CURVE	RADIUS	CHORD BEARING	CHORD LENGTH
C1	95.00'	N 17°28'49" E	73.17'
C2	265.00'	N 17°59'25" E	39.02'
C3	265.00'	N 06°31'34" E	153.95'
C4	415.00'	N 04°11'30" W	71.65'
C5	365.00'	S 04°11'30" E	66.47'
C6	315.00'	S 06°31'34" W	170.16'
C7	235.00'	S 16°35'10" W	29.59'
C8	95.00'	N 02°02'42" E	23.87'
C9	95.00'	S 12°41'47" W	11.38'

NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON FEBRUARY 21, 2023.



**SURVEYORS NOTES**  
 SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON FEBRUARY 21, 2023, FROM A GPS CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - DALE HOLLOW SPP CORS APP. CORS.ID - KDMA, PD - 0K7553.  
 SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.  
 NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR ANTIQUITIES IN THE TITLE OF THE PARENT TRACT.  
 THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.  
 EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.



**Know what's below. Call before you dig.**  
 The utility information shown on this plan, and any other information, is provided for your information only. It is the contractor's responsibility to verify that existence and location, and to contact the appropriate utility company for field locations.



**LAND SURVEYOR'S CERTIFICATE**  
 TYPE "A" SURVEY: UNDISTURBED TRVERSE CLOSURE BETTER THAN 1 IN 10,000.  
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.  
 This survey and plat meets or exceeds the minimum standards of the governing authorities.  
 This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II  
 KY. Reg. No. 3282

**"WIRELESS COMMUNICATION SITE SURVEY"**

OWNER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_  
 TENANT APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 2116502250C DATED 05/03/2010 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".



SCALE: 1" = 100' (IN FEET)



1012 S 4th Street, Suite 101  
 Louisville, Ky 40203  
 Phone: (502) 636-5111  
 Fax: (502) 636-5263

SITE NUMBER: 723518

SITE NAME: CK WILLOW SHADE WEST

SITE ADDRESS: KY HWY 90  
 SUMMER SHADE, KY 42166

LEASE AREA: 10,000.00 SQ.FT.

PROPERTY OWNER: PAULETTA JENT  
 PO BOX 282  
 WCCO, KY 41773

PARCEL NUMBER: 042-00-00-014-02

SOURCE OF TITLE: D.B. 165, PG. 331, TRACT 1

DWG BY: SNS FIELD DATE: DRAFT DATE:  
 CHKD BY: FLS 02.21.23 03.16.23

FSTAN PROJECT NO.: 22-11666

SHEET 2 OF 3

**REVISIONS:**

ACC ESMIT - 11.09.23 - 2311916

	LEGAL DESCRIPTIONS (LEASE AREA)
	LEGAL DESCRIPTIONS (ACCESS ESMT)
	LEGAL DESCRIPTIONS (UTILITY ESMT)
	LEGAL DESCRIPTIONS (PARENT TRACT)

LEASE AREA

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:  
 Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0080-006-012;  
 Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Lease Area;  
 Thence S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FStan 3282";  
 Thence N 17°19'19" W - 100.00' to a set iron rod with a cap stamped "FStan 3282";  
 Thence N 72°40'41" E - 100.00' to a set iron rod with a cap stamped "FStan 3282";  
 Thence S 17°19'19" E - 100.00' to the point of beginning, containing 10,000.00 square feet as per survey by Frank L. Sellinger, II dated March 16, 2023.

ACCESS & UTILITY EASEMENT

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:  
 Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0080-006-012;  
 Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FStan 3282", and being the southeast corner of the Lease Area;  
 Thence with the south line of said Lease Area S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Access & Utility Easement;  
 Thence leaving said Lease Area S 72°40'41" W - 30.00' to a set iron rod with a cap stamped "FStan 3282";  
 Thence N 17°19'19" W - 50.00' to a point;  
 Thence S 72°40'41" W - 56.16' to a point;  
 Thence along a curve to the right with a radius of 95.00' and a chord of N 17°28'49" E - 73.17' to a point;  
 Thence N 40°07'55" E - 33.45' to a point;  
 Thence N 08°00'44" E - 57.55' to a point;  
 Thence along a curve to the right with a radius of 265.00' and a chord of N 17°58'25" E - 39.02' to a point;  
 Thence N 22°11'45" E - 51.85' to a point;  
 Thence along a curve to the left with a radius 265.00' and a chord of N 06°31'34" E - 153.95' to a point;  
 Thence N 09°08'38" W - 42.06' to a point;  
 Thence along a curve to the right with a radius of 415.00' and a chord of N 04°11'30" W - 71.65' to a point;  
 Thence N 00°45'38" E - 180.62' to a point on the west right-of-way of said Kentucky Highway 90;  
 Thence with said right-of-way for the next two (2) calls: (1) S 11°02'37" E - 128.41' to a point;  
 Thence (2) S 15°29'56" E - 13.32' to a point;  
 Thence leaving said Kentucky Highway 90 and traversing said Jent property S 00°45'38" W - 42.13' to a point;  
 Thence along a curve to the left with a radius 385.00' and a chord of S 04°11'30" E - 66.47' to a point;  
 Thence S 09°08'38" E - 42.06' to a point;  
 Thence along a curve to the right with a radius of 315.00' and a chord of S 06°31'34" W - 170.16' to a point;  
 Thence S 22°11'45" W - 51.85' to a point;  
 Thence along a curve to the left with a radius 235.00' and a chord of S 18°35'10" W - 29.59' to a point;  
 Thence S 00°27'56" E - 32.91' to a point;  
 Thence S 19°25'41" E - 21.48' to a point;  
 Thence N 49°35'42" E - 32.01' to a point;  
 Thence S 39°58'34" E - 30.86' to a point to on the north line of said Lease Area;  
 Thence with said north line S 72°40'41" W - 69.35' to a set iron rod with a cap stamped "FStan 3282" on the northwest corner of said Lease Area;  
 Thence with the west line of said Lease Area S 17°19'19" E - 100.00' to the point of beginning, containing 23,771.79 square feet as per survey by Frank L. Sellinger, II dated March 16, 2023 and revised on November 08, 2023.

UTILITY EASEMENT

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:  
 Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0080-006-012;  
 Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FStan 3282", and being the southeast corner of the Lease Area;  
 Thence with the south line of said Lease Area S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FStan 3282", and being the southeast corner of the Access & Utility Easement;  
 Thence leaving said Lease Area with the perimeter of said Access & Utility Easement for the next four (4) calls: (1) S 72°40'41" W - 30.00' to a set iron rod with a cap stamped "FStan 3282";  
 Thence (2) N 17°19'19" W - 50.00' to a point;  
 Thence (3) S 72°40'41" W - 56.16' to a point;  
 Thence (4) along a curve to the right with a radius of 95.00' and a chord of N 02°02'42" E - 23.87' to the True Point of Beginning of the Utility Easement;  
 Thence leaving said N 48°45'59" W - 87.60' to a point;  
 Thence N 41°14'01" E - 10.00' to a point;  
 Thence S 48°45'59" E - 82.16' to a point on the northwest line of said Access & Utility Easement;  
 Thence with said northwest line along a curve to the left with a radius 95.00' and a chord of S 12°41'47" W - 11.38' to the point of beginning, containing 847.54 square feet as per survey by Frank L. Sellinger, II dated March 16, 2023.

LEGAL DESCRIPTIONS:

This is a description for Verizon Wireless, of a lease area to be located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west line of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:

PARENT TRACT DESCRIPTION (PROVIDED BY OTHERS)

Property located in Metcalfe County, Kentucky  
 The following described real estate being located in Metcalfe County, Kentucky, and being more particularly described as follows:  
 Tract 1:  
 Beginning at a set 1/2" rebar at a r/w monument, on the r/w of State Hwy. #90, a corner to David Weishofer (Deed Book 93, Page 417); thence with the line of Weishofer, S 46 deg. 48 min. 19 sec. W (passing a power pole at 224.72 ft. and a set 1/2" rebar at a 6' oak at 1535.38 ft.) 1589.66 ft. to a point centerline of branch, a corner to Weishofer, in the line of the Ritter Farms (Deed Book 113, Page 298, Tract #5, Plat Slide "A", Page 710); thence with the line of the Ritter Farms and the meanders of the branch, N 45 deg. 06 min. 50 sec. W 27.43 ft.; thence N 34 deg. 00 min. 17 sec. W 163.08 ft.; thence N 16 deg. 37 min. 10 sec. W 76.65 ft.; thence N 30 deg. 07 min. 01 sec. W 279.69 ft.; thence N 00 deg. 45 min. 21 sec. W 124.87 ft.; thence N 30 deg. 15 min. 36 sec. W 241.67 ft.; thence N 06 deg. 10 min. 28 sec. W 213.11 ft.; thence N 12 deg. 40 min. 08 sec. W 156.28 ft.; thence N 35 deg. 58 min. 22 sec. W 136.52 ft.; thence N 29 deg. 58 min. 18 sec. W 219.57 ft. to a point centerline of branch, in the line of the Ritter Farms; thence with the line of Liebhart; thence with the line of Liebhart, N 38 deg. 12 min. 48 sec. W 136.96 ft., thence N 27 deg. 11 min. 33 sec. W 182.11 ft.; thence N 09 deg. 41 min. 19 sec. W 267.21 ft. to a point centerline of branch (ref. N 88 deg. 19 min. 56 sec. W 30.00 ft. from a 1/2" rebar cap #3013 found at the foot of a bluff) a corner to Liebhart, in the line of Thomas Aldridge (Deed Book 105, Page 370, Tract #4, Plat Slide "A", Page 710); thence with the line of Aldridge, S 88 deg. 19 min. 56 sec. E 134.00 ft. to a 1/2" rebar cap #3013 found at a stone, a corner to Aldridge and Shane Dodson and Carl Frazier (Deed Book 104, Page 825); thence with the line of Frazier, N 74 deg. 39 min. 40 sec. E 1284.75 ft. to a 5/8" rebar cap #2649 found, a corner to Frazier on the r/w of State Hwy. #90; thence with the r/w, S 34 deg. 21 min. 08 sec. E 267.91 ft. to a set 1/2" rebar at a r/w monument; thence S 15 deg. 29 min. 56 sec. E 120.46 ft. (chord distance) to a set 1/2" rebar at a r/w monument; thence S 01 deg. 14 min. 38 sec. E 227.54 ft. to a set 1/2" rebar at a r/w monument; thence S 18 deg. 38 min. 54 sec. E 67.03 ft. to a set 1/2" rebar, on the r/w of State Hwy. #90, a corner to Tract #2; thence with the line of Tract #2, S 61 deg. 35 min. 43 sec. W 348.76 ft. to a set 1/2" rebar; thence S 36 deg. 14 min. 53 sec. E 117.95 ft. to a set 1/2" rebar; thence S 83 deg. 18 min. 00 sec. E 101.46 ft. to a set 1/2" rebar; thence N 54 deg. 43 min. 36 sec. E 105.22 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road; thence N 71 deg. 40 min. 19 sec. E 99.91 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road, a corner to Tract #2, in the r/w of State Hwy. #90; thence with the r/w of Hwy. #90, S 09 deg. 50 min. 42 sec. E 94.27 ft. to the beginning containing 60.781 acres more or less. According to an actual survey dated June 14, 2002, by Joe R. Lefkwich, P.L.S. #3013 with Lefkwich Land Surveying, Inc.  
 Tract 1i:  
 Beginning at a set 1/2" rebar centerline of the Billy Joe Powell Road on the r/w of State Hwy. #90, a corner to Tract #1; thence with the line of Tract #1, S 71 deg. 40 min. 19 sec. W 99.91 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road; thence S 54 deg. 43 min. 36 sec. W 105.22 ft. to a set 1/2" rebar; thence N 83 deg. 18 min. 00 sec. W 101.46 ft. to a set 1/2" rebar; thence S 36 deg. 14 min. 53 sec. W 117.95 ft. to a set 1/2" rebar; thence N 61 deg. 35 min. 43 sec. E 348.76 ft. to a set 1/2" rebar, a corner to Tract #1, on the r/w of State Hwy. #90; thence with the r/w, S 18 deg. 38 min. 54 sec. E 84.50 ft. to a set 1/2" rebar at a r/w monument; thence S 09 deg. 50 min. 42 sec. E 102.12 ft. to the beginning containing 1.203 acres more or less. According to an actual survey dated June 14, 2002 by Joe R. Lefkwich, P.L.S. #3013, with Lefkwich Land Surveying.  
 AND BEING the same property conveyed to Pauletta Jent from Melvin C. Lemons, Jr. by Deed dated February 4, 2020 and recorded February 4, 2020 in Deed Book 165, Page 331.  
 Tax Parcel No. 042-00-00-014-02



LAND SURVEYOR'S CERTIFICATE

TYPE "X" SURVEY: UNDISTURBED TRVERSE CLOSURE BETTER THAN 1 IN 10,000  
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.  
 This survey and plat meets or exceeds the minimum standards of the governing authorities.  
 This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II  
 KY. Reg. No. 3282



1012 S 4th Street, Suite 101  
 Louisville, Ky 40203  
 Phone: (502) 636-5111  
 Fax: (502) 636-5263

SITE NUMBER: 723518

SITE NAME: CK WILLOW SHADE WEST

SITE ADDRESS: KY HWY 90  
 SUMMER SHADE, KY 42166

LEASE AREA: 10,000.00 SQ.FT.

PROPERTY OWNER: PAULETTA JENT  
 PO BOX 282  
 WCCO, KY 41773

PARCEL NUMBER: 042-00-00-014-02

SOURCE OF TITLE: D.B. 165, PG. 331, TRACT 1

DWG BY: SMS FIELD DATE: DRAFT DATE:  
 CHKD BY: FLS 02.21.23 03.16.23

FSTAN PROJECT NO.: 22-11666

SHEET 3 OF 3

REVISIONS:

ACC. ESMT - 11.09.23 - 2311916

RAWLAND



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

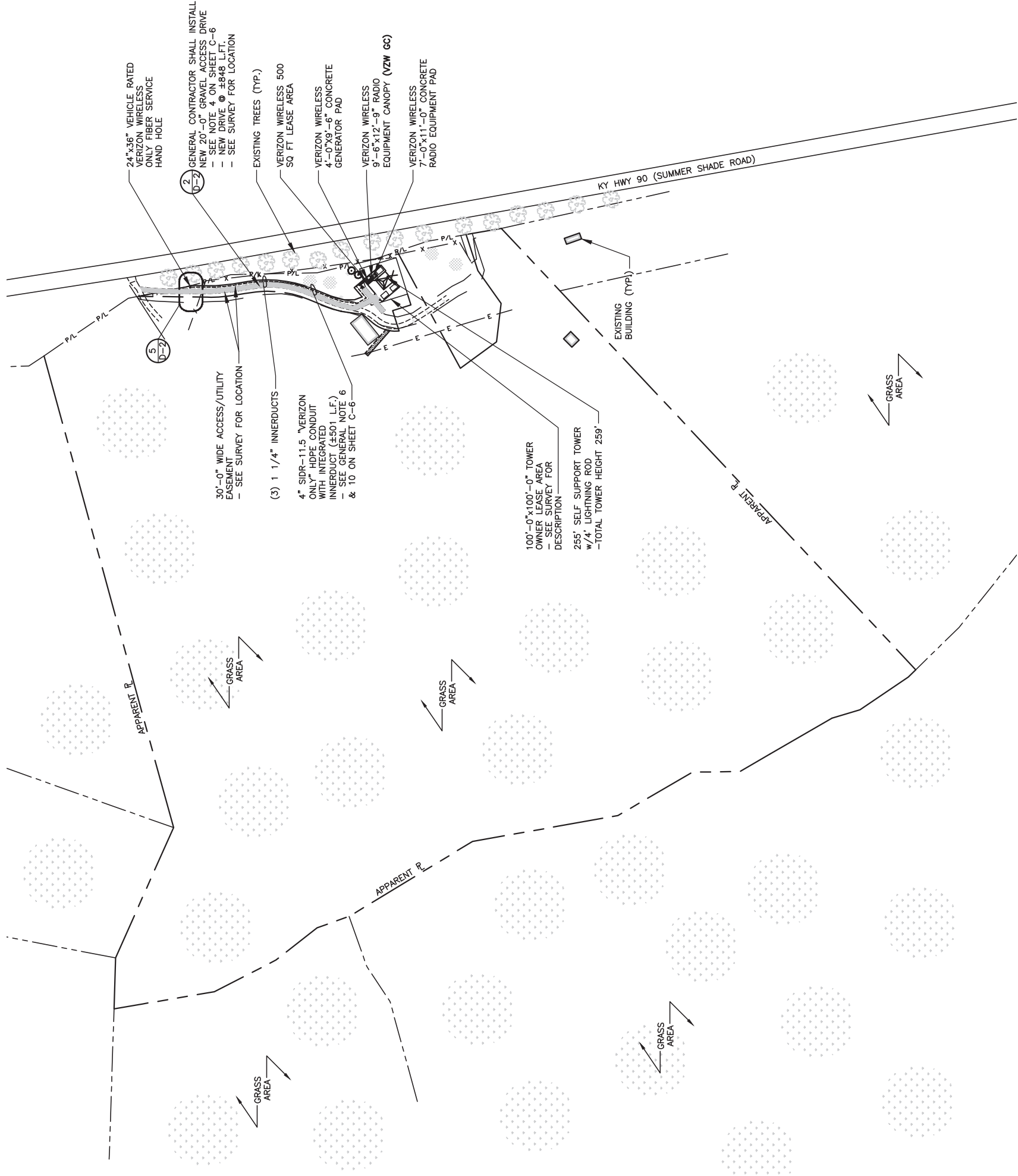
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:



MR. PLO & COMPANY REV. 3 FINAL 10/16/23



OVERALL SITE PLAN

SCALE: 1" = 200'



Know what's below.  
Call before you dig.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE COMMENCING WORK.



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

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03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

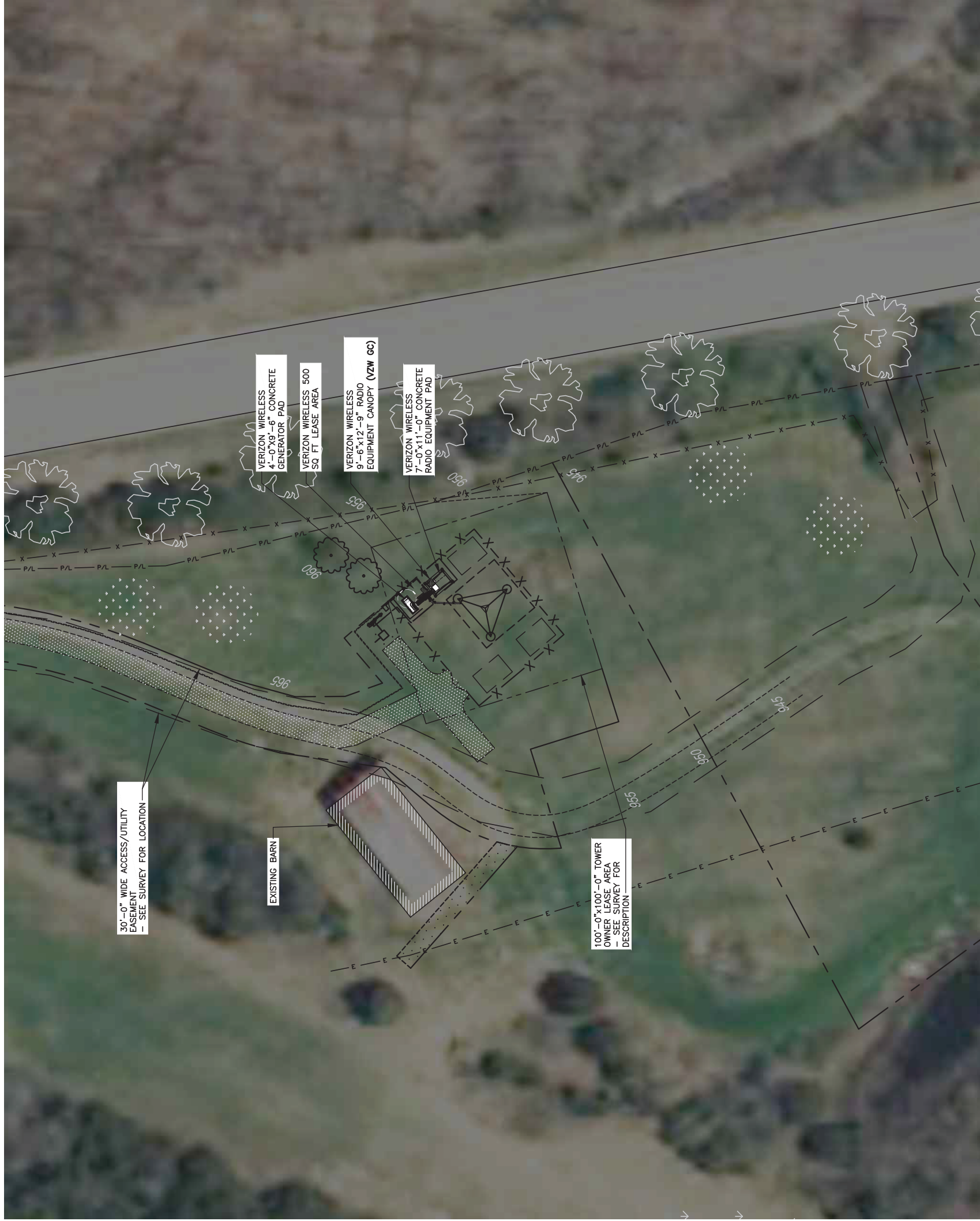
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1

WK PRO & CANOPY REV. 3 FINAL 10/16/23



OVERALL SITE PLAN

SCALE: 1" = 60'



Know what's below.  
Call before you dig.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE COMMENCING WORK.



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
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03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:

723518

SITE NAME:

CK WILLOW SHADE WEST

PID NUMBER:

16833259

DRAWN BY:

RC

CHECKED BY:

PL

DATE:

11.29.23

SHEET TITLE:

**OVERALL SITE PLAN  
w/TOWER LEG  
DISTANCE TO  
PROPERTY LINES**

SHEET NUMBER:

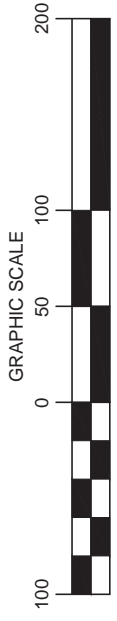
**C-1A**

WK PLO & CANOPY REV. 3 FINAL 10/16/23



**OVERALL SITE PLAN w/TOWER LEG DISTANCE TO PROPERTY LINES**

SCALE: 1" = 300'



Call Monday thru Friday - 7 am. to 6 pm.  
Know what's below.  
Call before you dig.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

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03-28-24

SITE INFORMATION:

CK WILLOW SHADE  
WEST  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:

723518

SITE NAME:

CK WILLOW SHADE WEST

PID NUMBER: 16833259

DRAWN BY: RC

CHECKED BY: PL

DATE: 11.29.23

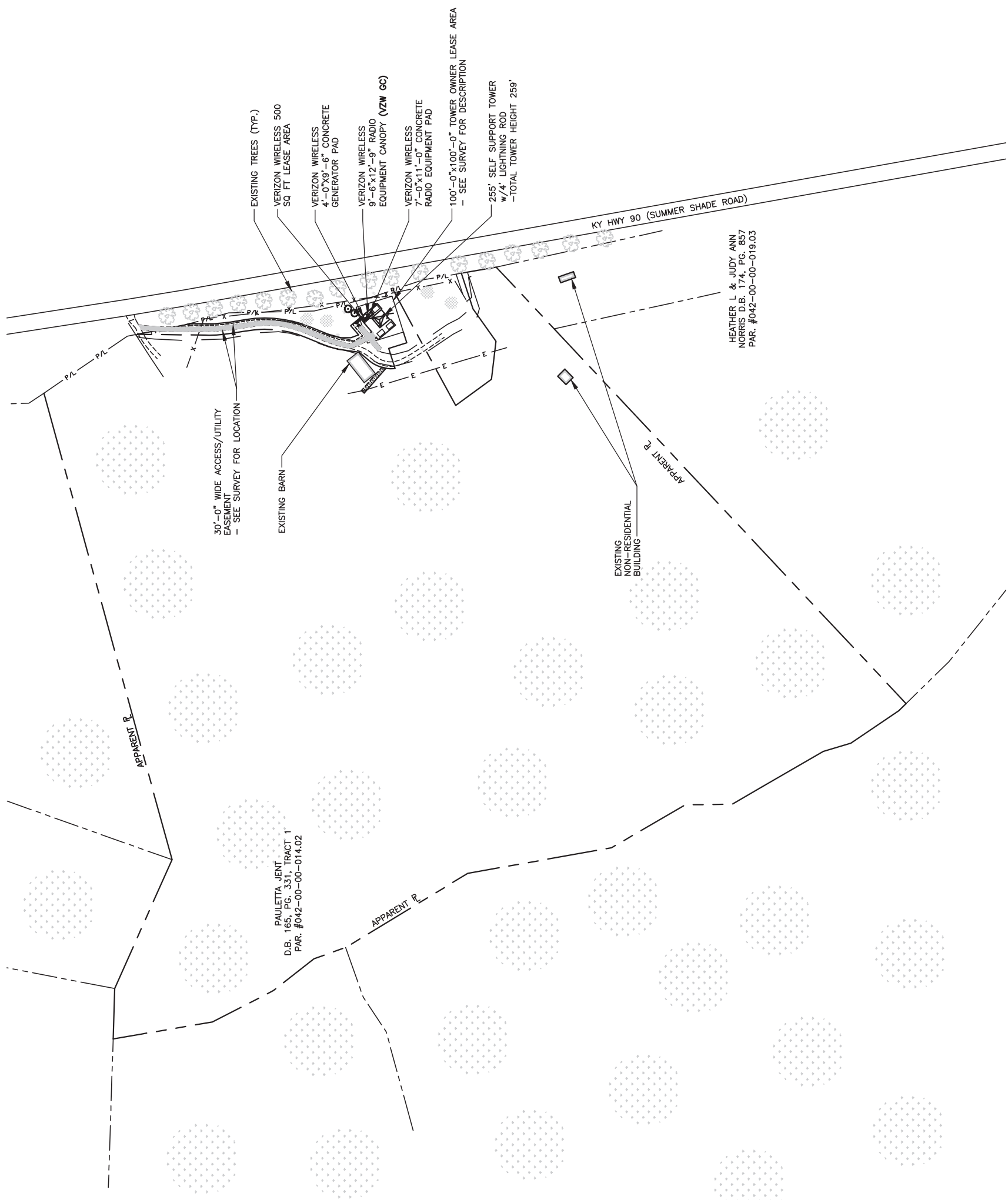
SHEET TITLE:

OVERALL SITE PLAN  
w/TOWER LEG DISTANCE  
TO RESIDENTIAL  
STRUCTURES

SHEET NUMBER:

C-1B

MK PD & CANOPY REV. 3 FINAL 10/16/23



NOTE:  
NO RESIDENTIAL STRUCTURES WITHIN 500'



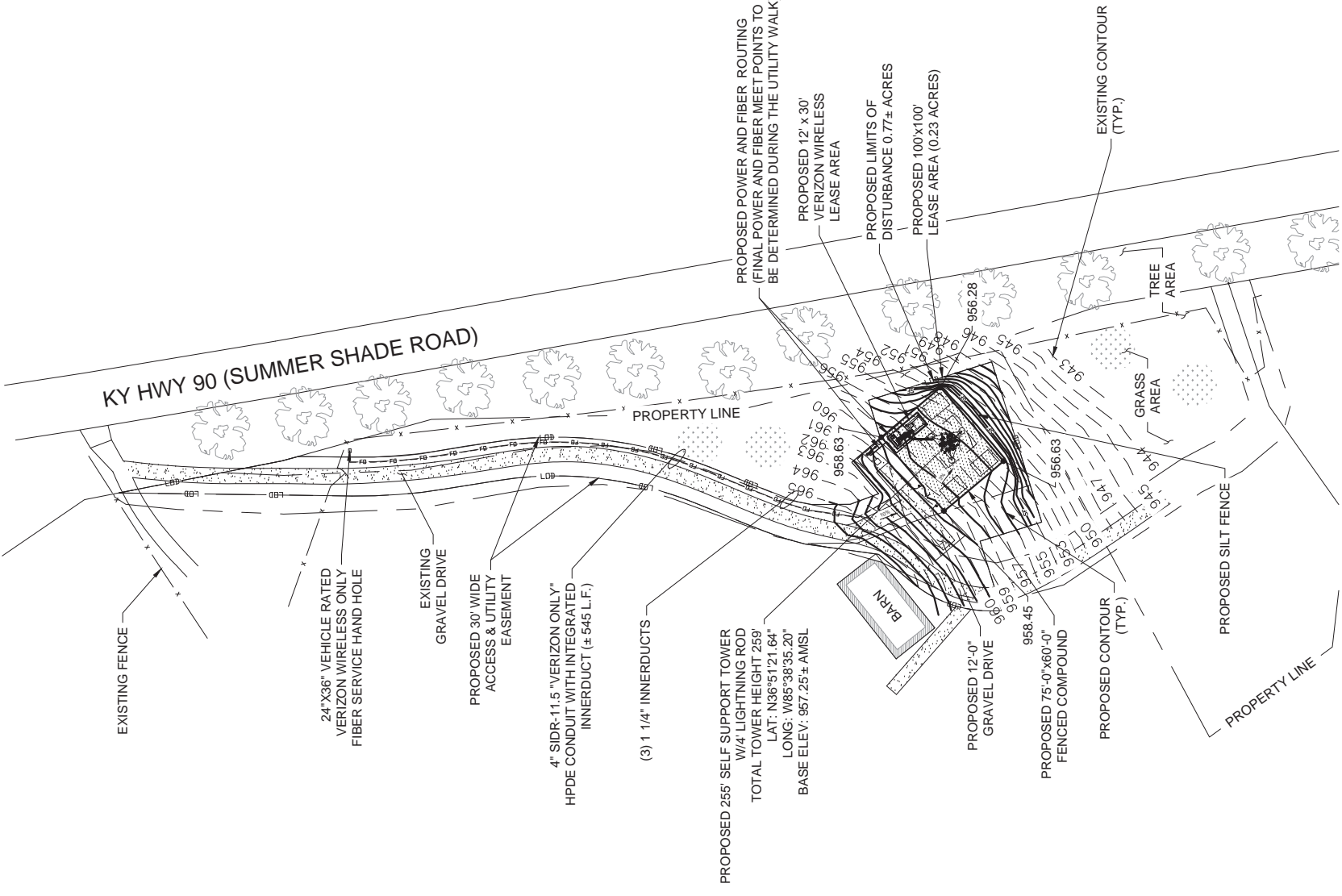
OVERALL SITE PLAN w/TOWER LEG DISTANCE  
TO RESIDENTIAL STRUCTURES

SCALE: 1" = 60'



Kentucky 811  
Call before you dig.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE  
PUBLIC INTEREST TO CONDUCT ANY  
UNDERGROUND LOCATION SERVICE TWO (2)  
WORKING DAYS BEFORE COMMENCING WORK.





**1 GRADING & EROSION CONTROL OVERALL PLAN**  
SCALE 1"=12' FOR 11X17'  
 1"=60' FOR 22X34"

**EROSION AND SEDIMENT CONTROL LEGEND**

—SF—	SF	PROPOSED SILT FENCE
—LOO—	LOO	LIMITS OF DISTURBANCE

**LEGEND**

---	955'	EXISTING CONTOUR
---	956'	PROPOSED CONTOUR
---		EXISTING EASEMENT
---		PROPOSED EASEMENT
---		PROPOSED LEASE AREA
X		PROPOSED FENCE
---		EXISTING EDGE OF PAVEMENT
FD	FD	UNDERGROUND FIBER CONDUIT
E	E	UNDERGROUND ELECTRICAL CONDUIT
---	3%	PROPOSED SLOPE/DRAINAGE
●	954.70	PROPOSED SPOT ELEV

- NOTES:**
- SEE NOTES ON SHEETS C-6 & C-7.
  - NO CUT OR FILL SLOPE SHALL BE STEEPER THAN 3H:1V.
  - CONTRACTOR TO ADHERE TO ALL KENTUCKY DEPARTMENT OF TRANSPORTATION REQUIREMENTS AND SPECIFICATIONS DURING CONSTRUCTION

**CK WILLOW SHADE WEST**  
 7235118  
 6981 KY-90  
 SUMMER SHADE, KY 42166  
 METCALFE COUNTY

**PROJECT NUMBER:**  
 35064.LAB.GDP.T412007.0

**SHEET NAME:**  
 GRADING & EROSION CONTROL OVERALL PLAN

**SHEET NUMBER:**  
 C-2

**SCALE:**  
 AS SHOWN

**SITE INFORMATION**

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	01/12/24	ISSUED FOR CONSTRUCTION	YAY	ANN
0	11/30/23	ISSUED FOR CONSTRUCTION	YAY	ANN
A	10/02/23	PRELIMINARY	YAY	ANN

**STATE OF KENTUCKY**  
 DMITRIY V. ALBUL  
 25093  
 LICENSED PROFESSIONAL ENGINEER

03-28-24  
 DMITRIY ALBUL  
 KY LICENSE NO. 25093

**ALBUL ENGINEERING**

3840 E. ROBINSON ROAD  
 AMHERST, NY 14228  
 WWW.ALBULENG.COM

**LAB**

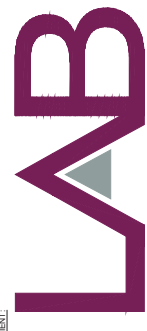
49030 PONTIAC TRAIL, SUITE 400  
 WIXOM, MICHIGAN 48393  
 PHONE: (248) 705-9212

**verizon**

250E 96TH ST., STE 175  
 INDIANAPOLIS, IN 46240-3753



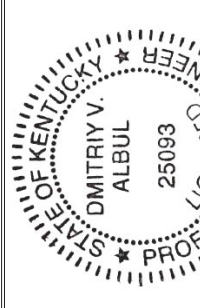
250E 96TH ST. STE 175  
INDIANAPOLIS, IN 46240-3753



49030 PONTIAC TRAIL, SUITE 400  
WIXOM, MICHIGAN 48393  
PHONE: (248) 705-9212



3840 E. ROBINSON ROAD  
AMHERST, NY 14228  
WWW.ALBULENG.COM



03-28-24  
DMITRIY ALBUL  
KY LICENSE NO. 25093

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	01/22/24	ISSUED FOR CONSTRUCTION	YAY	AAN
0	11/30/23	ISSUED FOR CONSTRUCTION	YAY	AAN
A	10/02/23	PRELIMINARY	YAY	AAN

SITE INFORMATION

CK WILLOW SHADE WEST

7235118

6981 KY-90

SUMMER SHADE, KY 42166  
METCALFE COUNTY

PROJECT NUMBER:  
35064.LAB.GDP.T412007.0

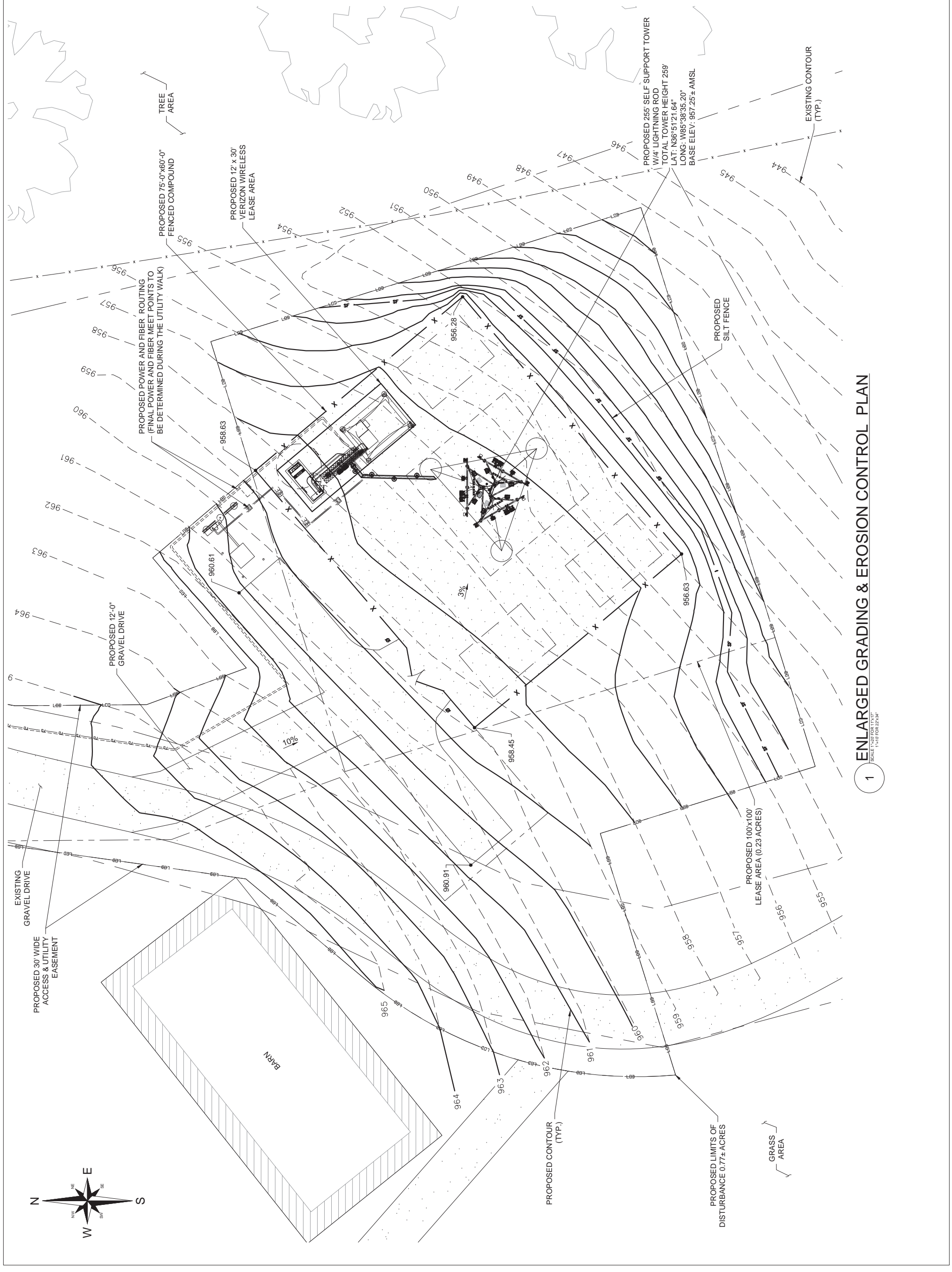
SHEET NAME

GRADING & EROSION  
CONTROL OVERALL PLAN

SHEET NUMBER:  
C-2.1

SCALE:  
AS SHOWN

SHEET SIZE - 22"x34"



1 ENLARGED GRADING & EROSION CONTROL PLAN  
SCALE 1"=20' FOR TYP. 1"=40' FOR DETAIL





TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
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SITE INFORMATION:  
03-28-24

### CK WILLOW SHADE WEST

6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16833259

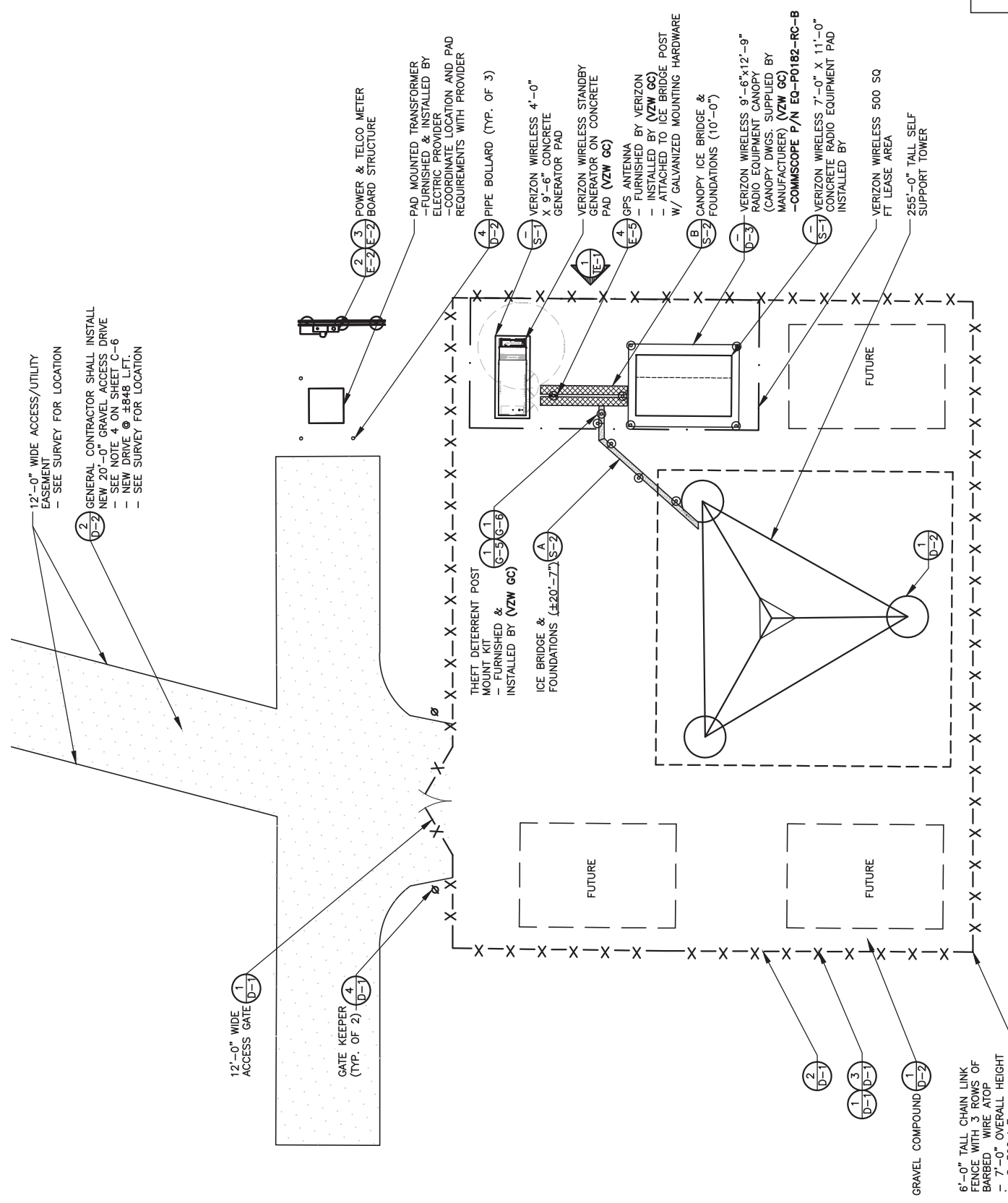
DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
DETAILED SITE PLAN

SHEET NUMBER:  
C-3

DATE: 10/16/23

DATE: 10/16/23



### LEGEND

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLE/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

**DETAILED SITE PLAN**  
SCALE: 1/16" = 1'-0"



\*NOTE: GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER



Call before you dig.  
Kentucky 811  
1-800-752-6007  
PER KENTUCKY LAW, YOU MUST CALL 811 TO LOCATE UNDERGROUND UTILITIES BEFORE EXCAVATION. FAILURE TO DO SO IS A VIOLATION OF KENTUCKY LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

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1	03/26/24	ISSUED FOR CONSTRUCTION



03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**

6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
**723518**

SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

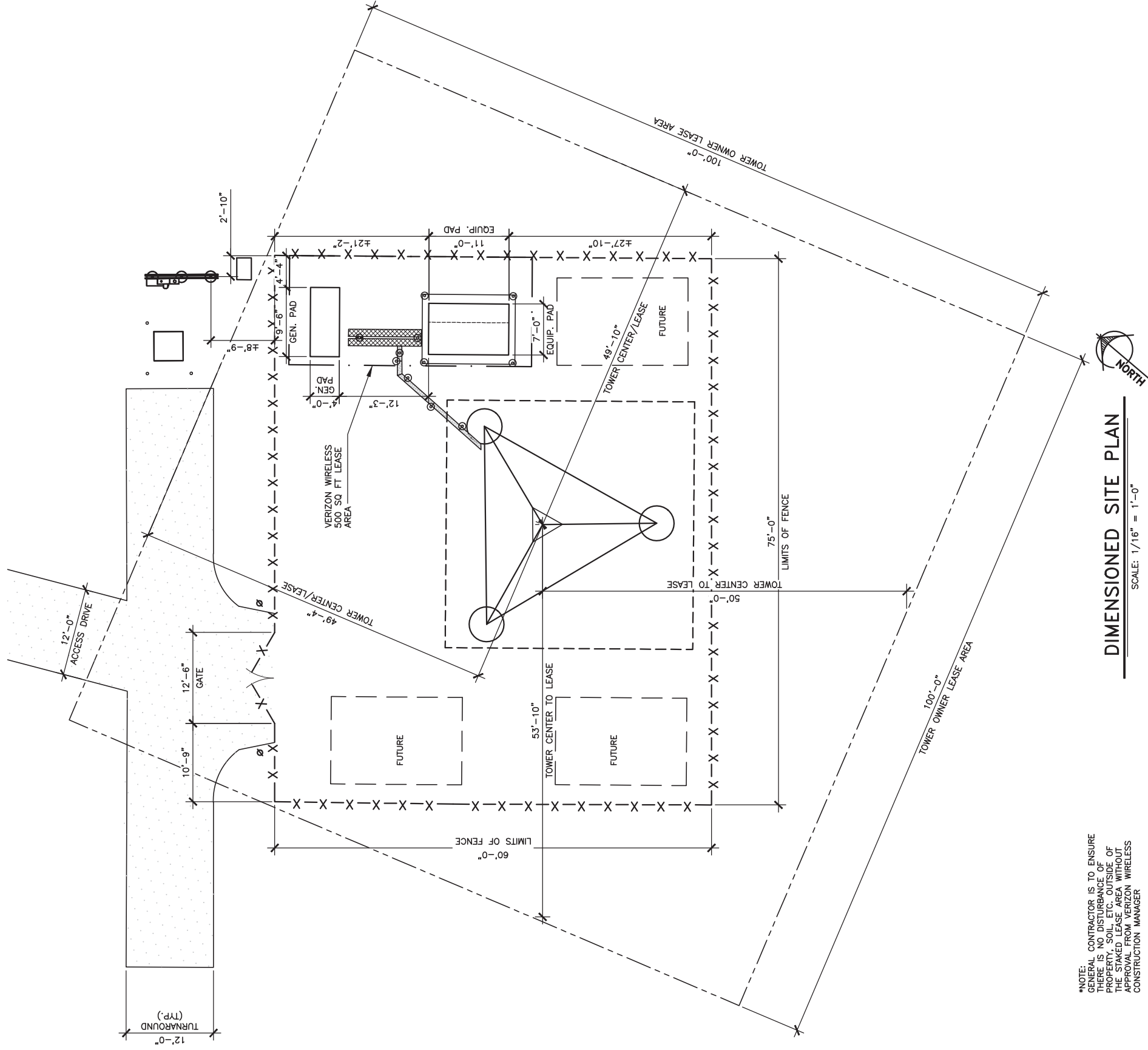
SHEET TITLE:

**DIMENSIONED SITE PLAN**

SHEET NUMBER:

**C-4**

MK PLO & CAMPO REV. 3 FINAL 10/16/23



**LEGEND**

- IRON PIN
- DRAINAGE LINE
- SPOT ELEVATION
- GRAVEL COMPOUND
- CENTER LINE
- NEW FENCE LINE
- NEW SILT FENCE LINE
- POWER POLEW/OVERHEAD ELEC./TELE.
- EDGE OF NEW DRIVE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- EXISTING CONTOURS
- NEW CONTOURS
- NEW LEASE AREA AND EASEMENT
- FENCED COMPOUND
- CONCRETE
- ACCESS DRIVE

**DIMENSIONED SITE PLAN**

SCALE: 1/16" = 1'-0"



Know what's below. Call before you dig.

Call Monday thru Friday - 7 am. to 6 pm.

1-800-752-6007

PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTICING THE UTILITY LOCATIONS. FAILURE TO DO SO MAY RESULT IN FINES AND STOPPAGE OF WORKING DAYS BEFORE COMMENCING WORK.

\*NOTE: GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

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SITE INFORMATION:  
**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
**723518**

SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16833259  
DRAWN BY: RC  
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DATE: 11.29.23

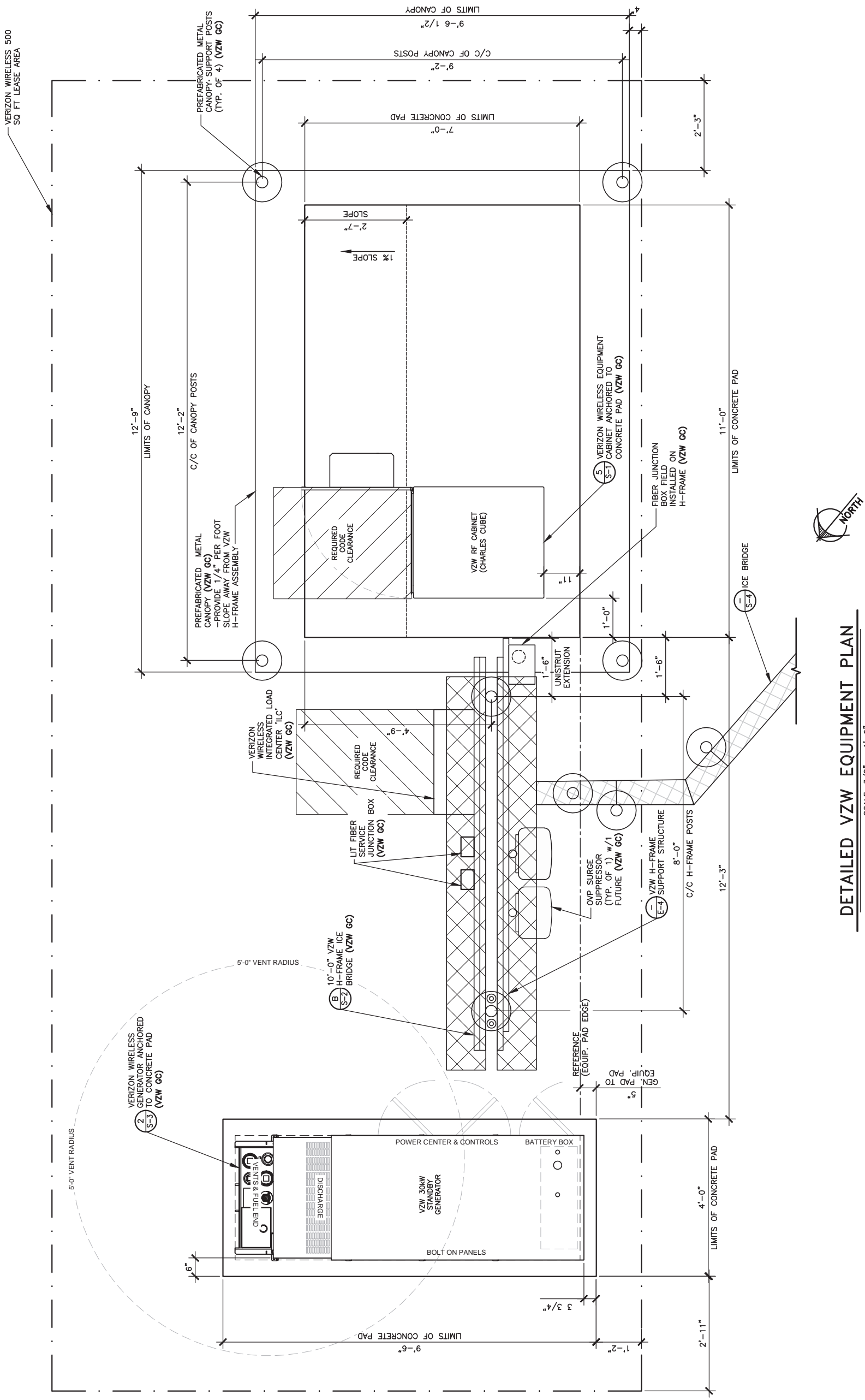
SHEET TITLE:

**DETAILED VZW EQUIPMENT PLAN**

SHEET NUMBER:

**C-5**

WK PAD & CANOPY REV. 3 FINAL 10/16/23



**DETAILED VZW EQUIPMENT PLAN**

SCALE: 3/8" = 1'-0"



\*NOTE: GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER



Call before you dig.  
Know what's below.  
Call Monday thru Friday - 7 am. to 6 pm.  
**1-800-752-6007**  
PER HISTORICAL SERVICE LAW, IT IS ILLEGAL TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

## GENERAL SITE CONSTRUCTION NOTES

1. **SCHEDULE:**  
THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE. VERIFY SCHEDULE DURING BID WALK.
2. **TOWER OWNER REPRESENTATIVE:**  
TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
PHONE: (659) 544-5000  
  
**PROPERTY OWNER REPRESENTATIVE:**  
JENT PAULETTA  
P O BOX 282  
VICCO, KY 41773  
PHONE: 606-216-5058  
E-MAIL: ettejent@gmail.com
3. **ANTENNA INSTALLATION:**  
THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS REF PLAN. DURING THE WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED OUTSIDE THE VICINITY OF THE TOWER.
4. **ACCESS DRIVEWAY:**  
THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVE PER THE ALIGNMENT AS SHOWN ON THESE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES ADDITIONAL FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY AND SHALL NOT BE USED UNTIL APPROVAL BY THE ENGINEER. THE GENERAL CONTRACTOR SHALL ALSO OBTAIN DRIVE PERMIT FOR NEW ACCESS DRIVE.
5. **PREFABRICATED EQUIPMENT CABINETS, CANOPY AND GENERATOR:**  
THIS VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING, TRANSPORTING AND ASSEMBLY OF THE PREFABRICATED EQUIPMENT CABINETS FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION. THE EQUIPMENT CABINETS SHALL BE LIFTED INTO PLACE ON THE CONCRETE EQUIPMENT PAD. THE GENERATOR SHALL BE LIFTED INTO PLACE BY USING TWO SPREADER BAR ASSEMBLIES. EACH SPREADER BAR SHALL BE A MINIMUM 3" WIDE (RATED TO CARRY 3 TONS). THE GENERATOR WEIGHT IS 1,425# WITH TANK PEDESTAL. VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL ANCHOR THE EQUIPMENT CABINETS AND GENERATOR BASE TO THE CONCRETE SLAB USING ANCHOR BOLTS. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF ALL EQUIPMENT TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES.  
THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING NECESSARY LOGS/TIMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CABINETS, CANOPY AND GENERATOR AND SHALL INCLUDE THIS WORK IN THE VZW EQUIPMENT INSTALLATION PORTION OF THE BID.
6. **UTILITIES:**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557.  
THE CONTRACTOR SHALL RUN AN ELECTRICAL TRENCH WITH 2 1/2" CONDUIT AND DETECTABLE PULL TAPE FROM THE NEW RADIO EQUIPMENT PAD AND END AT THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL THEN RUN (2) TWO 4" CONDUIT WITH PULL TAPE FROM THE METER BOARD TO THE NEW PAD MOUNTED TRANSFORMER LOCATION AND STUB UP 6" ABOVE GRADE. THE ELECTRICAL PROVIDER WILL THEN RUN UNDERGROUND CONDUIT FROM THE NEW TRANSFORMER TO THE NEW UTILITY POLE, CONTACT THE ENGINEER WITH ### WITH ### WITH ### BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER. CONDUITS MUST HAVE THE MINIMUM DEPTH OF 36" CONTACTOR SHALL CONTACT ELECTRIC PROVIDER TO VERIFY LOCATION OF CONDUIT BEFORE THE NEW METER BOARD STRUCTURE. THE ELECTRIC PROVIDER SHALL SUPPLY SERVICE ENERGY TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT SERVICE ENERGY TO SETUP AN INSPECTION OF THE TRENCHES BEFORE THEY ARE BACKFILLED. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER INSPECTION AND SETTLEMENT. CONTACT ELECTRIC PROVIDER THREE TO FOUR WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE AND COORDINATION OF ACCESS TO SITE. THE CONTRACTOR SHALL CONTACT ----- FOR A COPY OF THEIR SPECIFICATIONS BEFORE CONSTRUCTION  
THE TOWER OWNER SHALL ENSURE PERMANENT ELECTRIC POWER IS AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED TO VERIZON WIRELESS AS TENANT READY.  
THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL RUN ELECTRICAL CONDUCTORS FROM NEW METER CENTER TO NEW VZW INTEGRATED LOAD CENTER WITHIN TOWER OWNER INSTALLED 2 1/2" CONDUIT CONTACT ELECTRIC PROVIDER TO HAVE NEW METER INSTALLED.  
THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR THE ORDERING AND COORDINATING THE DELIVERY OF A FIBER OPTIC SERVICE LINE TO THE RADIO EQUIPMENT ENCLOSURE. COORDINATE WITH THE FIBER PROVIDER AND THE VERIZON WIRELESS FACILITY ENGINEER.
1. ONE 4" SIDP-11.5 HOPE FIBER CONDUITS w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND MEET POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:  
  - THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24361480-PC2436-30 T22 - VERIZON LOGO OR QUATZTHERUBELL POWER SYSTEMS MODEL PC243621857B4 ASSY T22 SW OR 24x36x30 VERIZON V OR APPROVED EQUALS. ALTERNATIVE HANDHOLES MAY BE USED IF MEETING THE DESIGNATED LOADING AND HAVING DIMENSIONS OF AT LEAST 2'x3'x2.5'. ALL VERIZON HANDHOLES TO HAVE "VERIZON" LOGO ON COVER.
  - BY THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
3. CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S).
4. ONE 4" SIDP-11.5 HOPE FIBER CONDUIT w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM VERIZON WIRELESS ONLY HANDHOLE OUTSIDE COMPOUND TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS)  
ELECTRIC SERVICE PROVIDED BY: FIBER OPTIC SERVICE PROVIDED BY:  
  - ????????? POWER FIBER PROVIDER TO BE DETERMINED BY VERIZON
  - ADDRESS: STREET ADDRESS WIRELESS
  - CITY, ST ZIP CODE
  - CONTACT: TBD
  - PHONE: TBD
  - EMAIL: TBD

### 7. SITE GRADING

- A. UNIFORMLY GRADE AREA TO BE SMOOTH SURFACE FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTION, TOPO LINES AND ELEVATIONS INDICATED.
1. COMPOUND SURFACE GRADES ARE TO BE SLOPED TO DIRECT WATER AWAY FROM EQUIPMENT PAD AND TOWER TO PREVENT STANDING AND PONDING WATER.
2. COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STERILIZATION FOR ACCESS TO ALL CUSTOMERS DENSITY TESTING MAY BE REQUIRED AT VERIZON WIRELESS' DISCRETION DUE TO QUESTIONABLE COMPACTION OF FINISH SURFACE GRADE OR SUB-GRADE.
3. DITCHES/SWALES AROUND THE COMPOUND AREA AND ALONG ACCESS ROAD SHALL BE CONSTRUCTED SO TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES/SLOPE AND NEW PROPOSED GRADES.
4. SITE GRADING AND DRAINAGE SHOULD BE CONSTRUCTED TO PREVENT WATER FROM ENTERING THE COMPOUND SURFACE OR THE ACCESS ROAD SUB-GRADE.
- B. MOISTURE CONTROL - UNIFORMLY MOISTEN OR AERATE SUB-GRADE AND EACH SUBSEQUENT FILL OR BACK FILL LAYER BEFORE COMPACTION TO WITHIN 90% OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACK FILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST, SNOW OR ICE.
- C. STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT) - SHOULD BE PLACED IN AN AREA THAT CAN BE CONTROLLED TO PREVENT WATER, SNOW, OR ICE FROM EFFECTING MOISTURE CONTENT. STOCKPILES MAY HAVE TO BE COVERED TO PREVENT ADDITIONAL MOISTURE FROM ACCUMULATING SO ACCEPTABLE FILL CAN BE USED.
- D. DE-WATERING - PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUB-GRADE, AND FROM FLOODING PROJECT OR BUILD AREA.
- E. EROSION CONTROL - MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT:  
  - 1. ALL INLETS, DRAINING, PIPES, SWELLS, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT.
  - F. GEOTEXTILE FABRIC - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE. (SEE SITE AREA SURFACING DETAIL ON D-1). THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENCATE (MIRAFI 500X) WOVEN ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
8. **TRASH REMOVAL & SANITATION:**  
THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL REMOVE ALL TRASH AS CREATED BY THEMSELVES AND THEIR SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. NO BURNING OR BURYING OF TRASH IS PERMITTED.  
THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.
- A. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT PAD FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO THE TOWER FOUNDATION. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.
- B. TOWER & FOUNDATION DESIGN ARE BY OTHERS FOR TOWER OWNER. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN WRITING FROM TOWER OWNER THAT THE TOWER IS STRUCTURALLY SUFFICIENT TO SUPPORT ALL LOADINGS AS OUTLINED IN THESE DOCUMENTS. TOWER AND FOUNDATION DESIGN SHALL BE PERFORMED BY A LICENSED ENGINEER.
- C. THE GENERAL CONTRACTOR SHALL VERIFY THE TOP OF FOUNDATION MATCHES THE FAA APPROVAL LETTER.

### 10. EXCAVATION OF UTILITIES:

- A. FIELD VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING IN THE VICINITY OF THE SITE. ALL EXCAVATIONS SHALL BE MADE BY HAND OVER OR UNDER OR IMMEDIATELY ADJACENT TO ANY EXISTING UTILITIES & GROUNDING.
- B. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. CONTACT UNDERGROUND UTILITY PROTECTION SERVICE BEFORE YOU DIG AT 1-800-382-5644 OR 811.
- C. EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE AND DETERMINE IF CONFLICTS EXIST WITH THE NEW IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (A&E FIRM) IN ORDER TO RESOLVE ANY CONFLICTS.

### 11. CONTRACTOR'S LICENSE:

- THE GENERAL CONTRACTOR, VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) AND ALL OF THEIR SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED TO PERFORM WORK IN THE LOCATION OF THIS SITE. PROOF OF LICENSES SHALL BE SUPPLIED TO VERIZON WIRELESS PRIOR TO THE COMMENCEMENT OF ANY WORK.

### 12. SEEDING:

ALL DISTURBED AREAS SHALL BE REPAIRED AND SEEDED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. SEED DISTURBED AREAS W/4 POUNDS/1000 SQ. FT. - 60% KENTUCKY BLUEGRASS, 18% CREEPING RED FESCUE, 22% ANNUAL RYEGRASS.

### 13. TRAFFIC CONTROL:

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR GOVERNING LOCAL AGENCIES.

### 14. CONSTRUCTION STAKING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING NEEDED TO COMPLETE ALL THE CONSTRUCTION SHOWN HEREON. CONTACT DESIGN ENGINEER TO SCHEDULE CONSTRUCTION STAKING.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, FIELD TILES, CULVERTS, ETC.

16. IN THE EVENT ANY DISCREPANCIES OR ERRORS ARE FOUND ON THESE PLANS OR ANY CONFLICT OR PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) FOR WORK HAVING TO BE REDONE FOR GRADE OR GEOMETRIC DISCREPANCIES IF NOTICE TO THE ENGINEER HAS NOT BEEN PROVIDED. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THE INTENT OF THESE PLANS.

17. ALL SITE WORK AND CONSTRUCTION SHALL CONFORM TO ANY AND ALL APPLICABLE CODES AND VERIZON WIRELESS STANDARDS AND SPECIFICATIONS.

18. ALL ELEVATIONS AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY SUPPLIED TO A&E FIRM BY SURVEYING FIRM. A&E FIRM HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS. TO SUBMIT SAME TO THE ENGINEER WITHIN 15 DAYS OF COMPLETION OF CONSTRUCTION. AS-BUILT PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE A DRAWING WITH DIMENSIONS SHOWING THE LOCATION OF THE UNDERGROUND UTILITIES, GROUNDING GRID, EQUIPMENT PAD, TOWER FOUNDATION, TOWER PLATFORM ORIENTATION, AND FENCE WITHIN THE LEASE AREA OR PROPERTY AND BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR.

20. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION.

21. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL TESTING AGENCIES THAT REQUIRE SITE INSPECTION OR TESTING OF THE WORK AS DIRECTED IN THESE PLANS, GOVERNING AGENCIES AND ALL APPLICABLE CODES.

22. PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ALL CONSTRUCTION DOCUMENTS TO MAKE SURE THEY ARE NOT LIMITED TO GEOTECHNICAL REPORT, STRUCTURAL ANALYSIS, TOWER, MECHANICAL AND ELECTRICAL DRAWINGS, FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

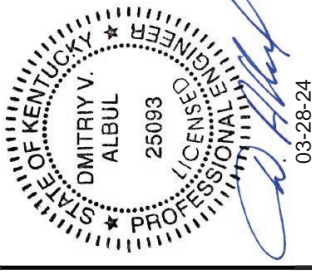
### 24. WORK SITE SAFETY:

A. CONSTRUCTION WORK PRESENTS UNIQUE THREATS TO HEALTH AND SAFETY. THE CONTRACTOR AND VERIZON WIRELESS CONTRACTOR (VZW GC) ARE RESPONSIBLE TO EDUCATE THEIR WORK FORCE OF THESE DANGERS AND LIMIT THEIR EXPOSURE TO HAZARDS. THIS EDUCATION SHALL INCLUDE BUT NOT BE LIMITED TO APPLICABLE TRAINING COURSES AND CERTIFICATIONS. PROPER PERSONAL PROTECTIVE EQUIPMENT USAGE, DAILY TALKGATE MEETINGS AND ANY OTHER PREVENTATIVE MEASURES WHICH MAY BE REASONABLY EXPECTED. THE CONTRACTOR, VERIZON WIRELESS CONTRACTOR (VZW GC) AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. ALL CONTRACTORS SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.

B. TOWER WORK PRESENTS ADDITIONAL THREATS TO HEALTH AND SAFETY. ALL TOWER WORKERS WORKING ON A TOWER MUST BE ADEQUATELY TRAINED AND MONITORED TO ENSURE THAT SAFE WORK PRACTICES ARE LEARNED AND FOLLOWED. AS REQUIRED BY OSHA, WHEN WORKING ON EXISTING COMMUNICATION TOWERS, EMPLOYEES MUST BE PROVIDED WITH APPROPRIATE FALL PROTECTION, TRAINED TO USE THIS FALL PROTECTION PROPERLY, AND THE USE OF FALL PROTECTION MUST BE CONSISTENTLY SUPERVISED AND ENFORCED BY THE CONTRACTOR.

C. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.

REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:  
**CK WILLOW SHADE WEST**  
 6981 KY-90  
 SUMMER SHADE, KY 42166  
 METCALFE COUNTY

SITE NUMBER:  
**723518**

SITE NAME:  
**CK WILLOW SHADE WEST**

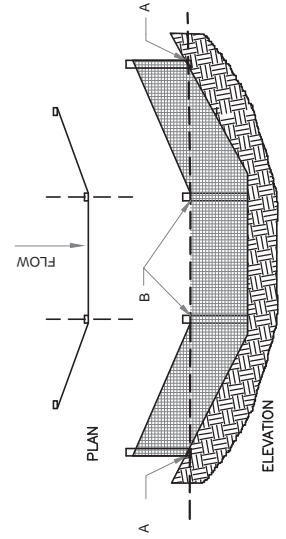
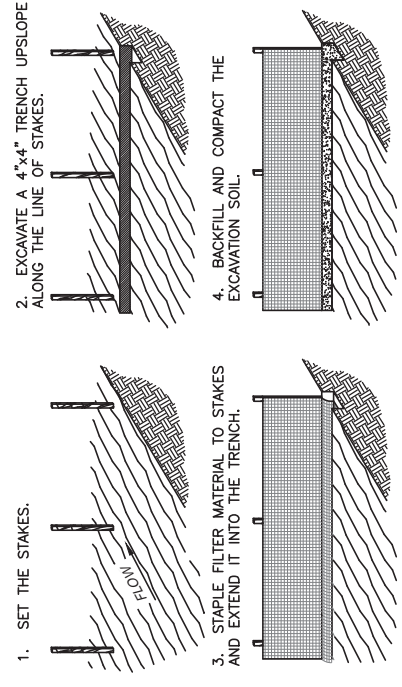
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 DRAWN BY: RC  
 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**GENERAL SITE CONSTRUCTION NOTES**

SHEET NUMBER:  
**C-6**

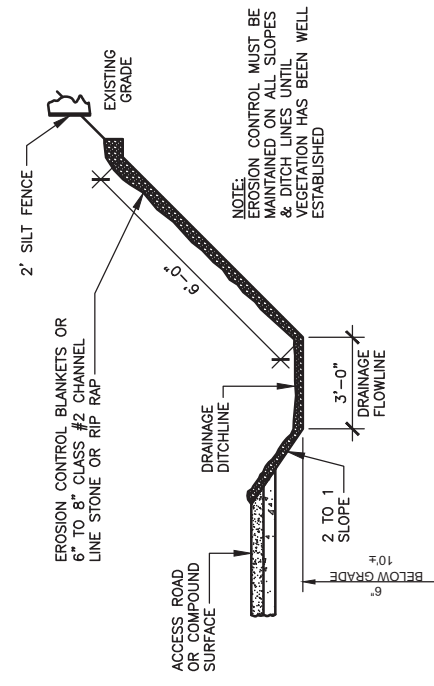
# EROSION & SEDIMENT CONTROL NOTES

- ALL WORK SPECIFIED AS A/AN DOT ITEM SHALL BE GOVERNED BY THE STATE OF INDIANA OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
- THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
- PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.



## SILT FENCE DETAIL 2

SCALE: N.T.S.

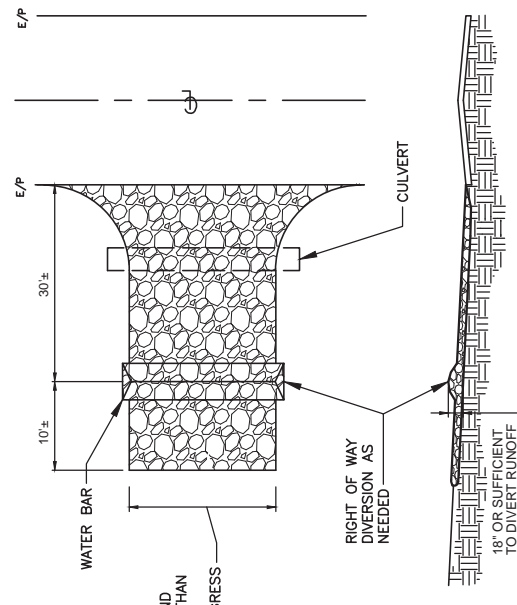


### NOTES:

- WHEN FACED WITH SLOPES LESS THAN 2 TO 1 SLOPES, ALL SLOPES SHOULD BE DOZER TRACKED PRIOR TO SEEDING. ALL SLOPES SHOULD HAVE EROSION CONTROL BLANKETS OR RIP RAP EMBEDDED ON SLOPE SURFACES TO REDUCE EROSION.
- ALL FLOWLINES MUST BE INSTALLED BELOW SUB-GRADE OF COMPOUND. (AT MINIMUM OF 6" BELOW)

## DRAINAGE DITCHLINE DETAIL (SWALE) 3

SCALE: N.T.S.



### NOTES:

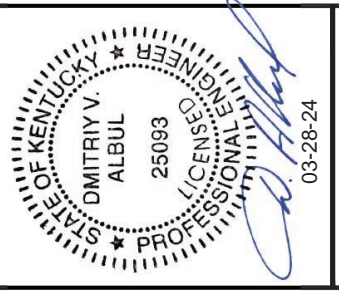
- STONE SIZE - TWO INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
- PAVEMENT THICKNESS - STONE LAYER SHALL BE AT LEAST 6" THICK.
- DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS/EGRESS OCCURS.
- BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTIONS ENTRANCES SHALL NOT BE RELIED UPON TO PREVENT MUD AND MATERIAL FROM ENTERING THE SITE TRACKING VEHICLES, TRAILERS, AND EQUIPMENT. THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

## TEMPORARY STABILIZED CONSTRUCTION ENTRANCE 1

SCALE: N.T.S.



REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
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 SUMMER SHADE, KY 42166  
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SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16833259  
 DRAWN BY: RC  
 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES**

SHEET NUMBER:  
**C-7**  
 MK PRO & CAMRY REV. 3 FINAL 10/16/23



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.9000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
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03-28-24

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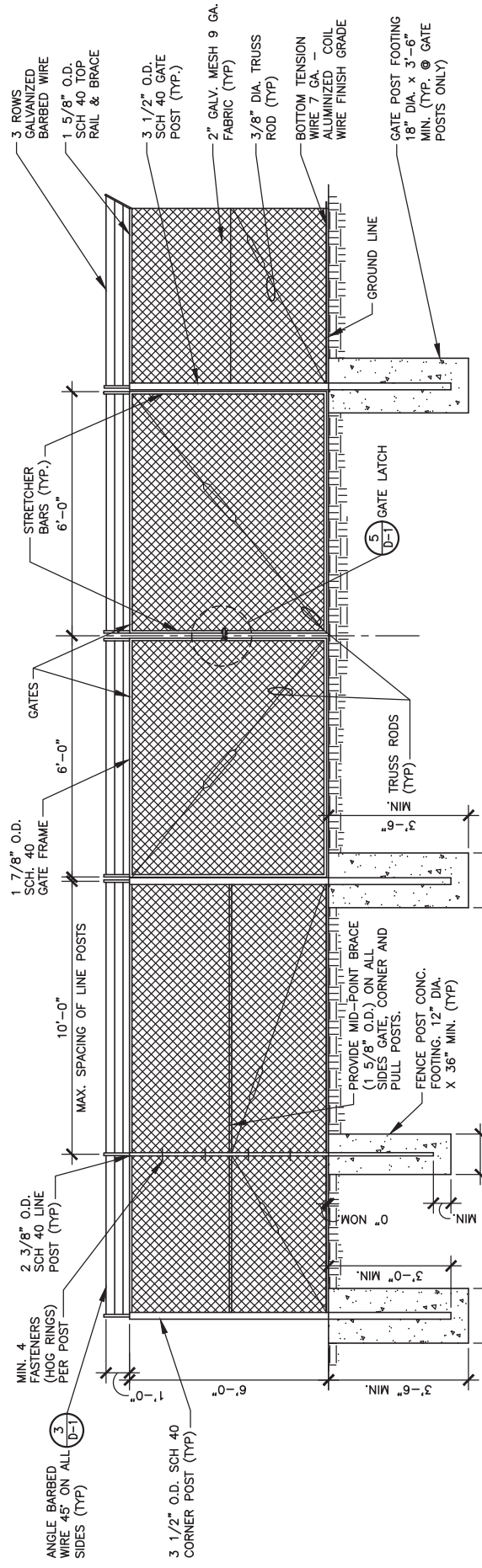
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**FENCE DETAILS AND NOTES**

SHEET NUMBER:  
**D-1**

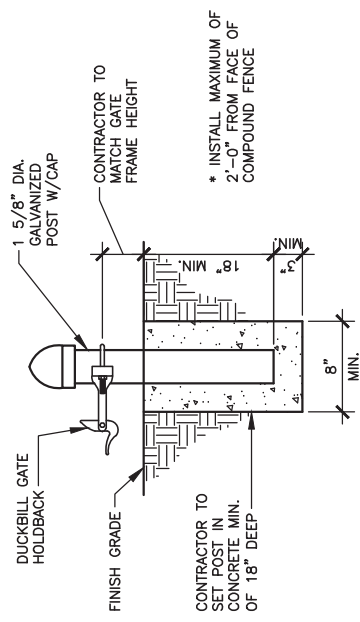
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**CHAIN LINK FENCING NOTES**

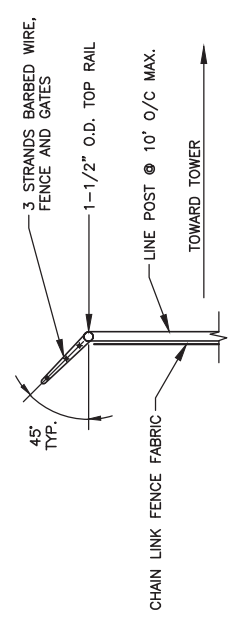
- ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
- BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
- SITE FENCE SHALL BE 6'-0" FABRIC W/ 3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0".
- BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 565, TYPE 1, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAUGE W/4 POINT BARBS AT 5" O/C.
- BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE). WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 6", PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN.)
- PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
- ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
- CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
- ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14c AND CHAIN LINK FENCE MANUFACTURERS INSTITUTE CLFMI-PM 2445.
- CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



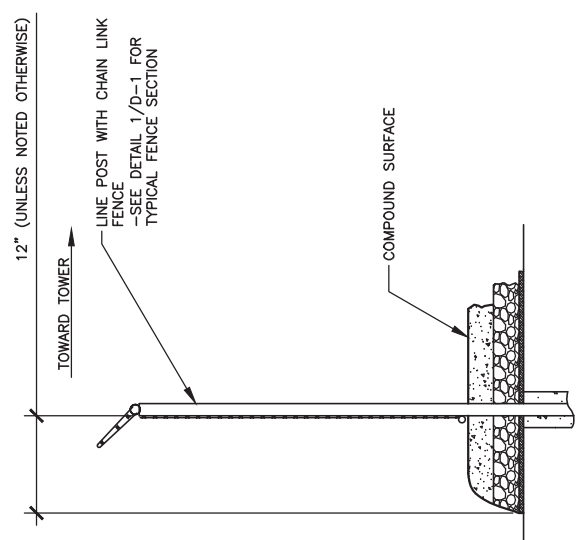
**1**  
CHAIN LINK FENCE & POST DETAIL  
SCALE: N.T.S.



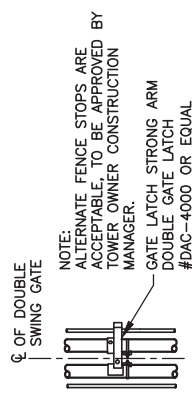
**4**  
GATE KEEPER DETAIL  
SCALE: N.T.S.



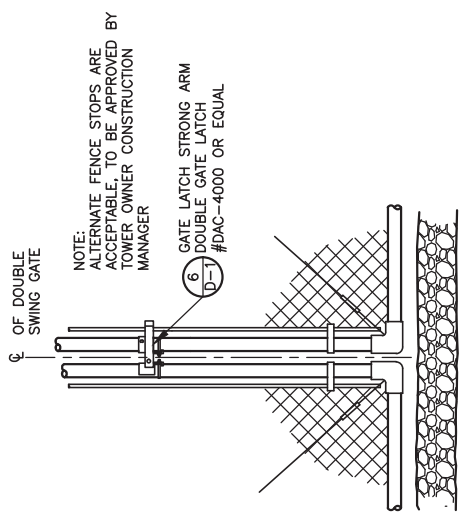
**3**  
TYPICAL BARBED WIRE DETAIL  
SCALE: N.T.S.



**2**  
SITE AREA SURFACING  
SCALE: N.T.S.



**6**  
GATE LATCH DETAIL  
SCALE: N.T.S.



**5**  
GATE LATCH DETAIL  
SCALE: N.T.S.

NOTE:  
ALTERNATE FENCE STOPS ARE ACCEPTABLE, TO BE APPROVED BY TOWER OWNER CONSTRUCTION MANAGER.

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PHONE: (248) 705-9212

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03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
**CK WILLOW SHADE WEST**  
PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

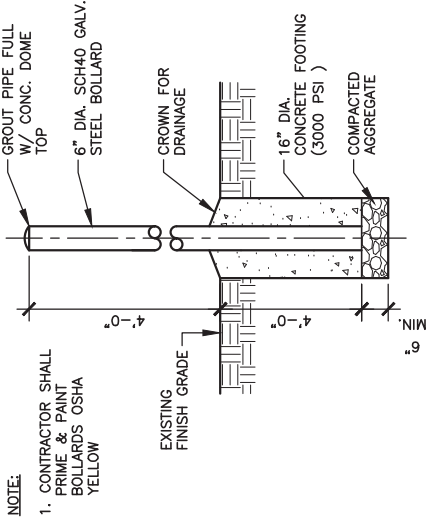
SHEET TITLE:

SITE DETAILS

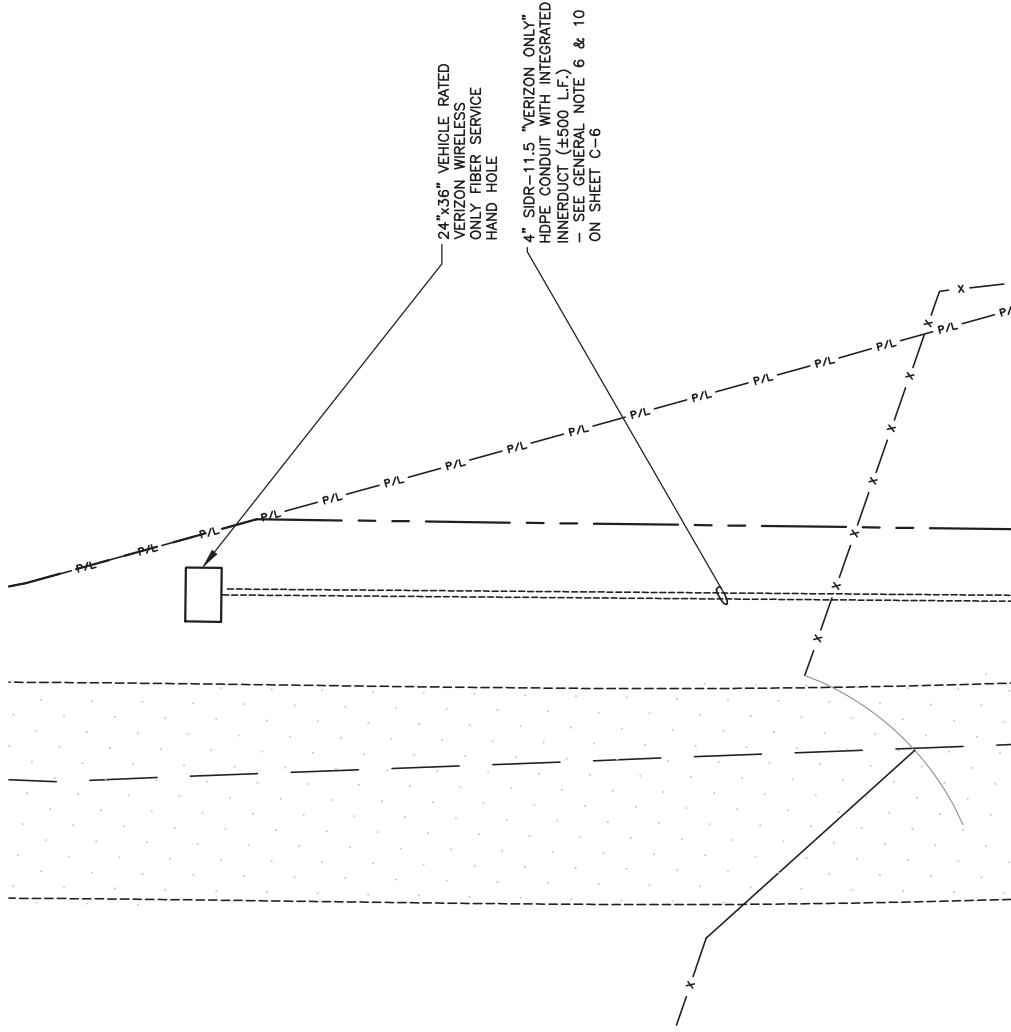
SHEET NUMBER:

**D-2**

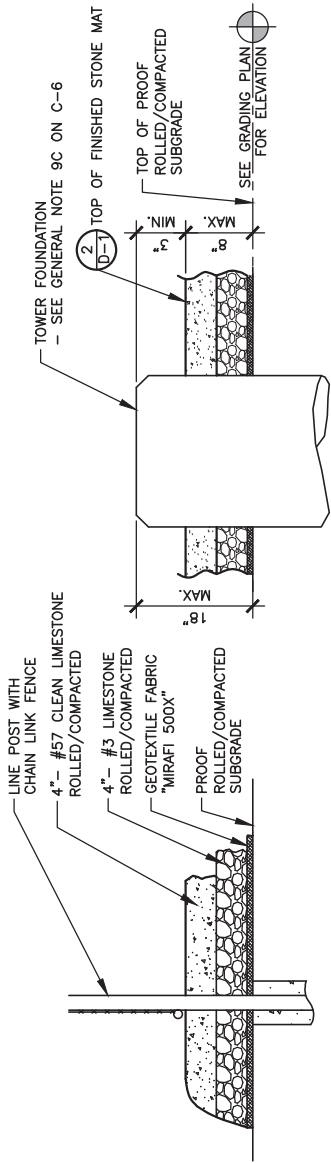
WK PRO & CAMPY REV. 3 FINAL 10/16/23



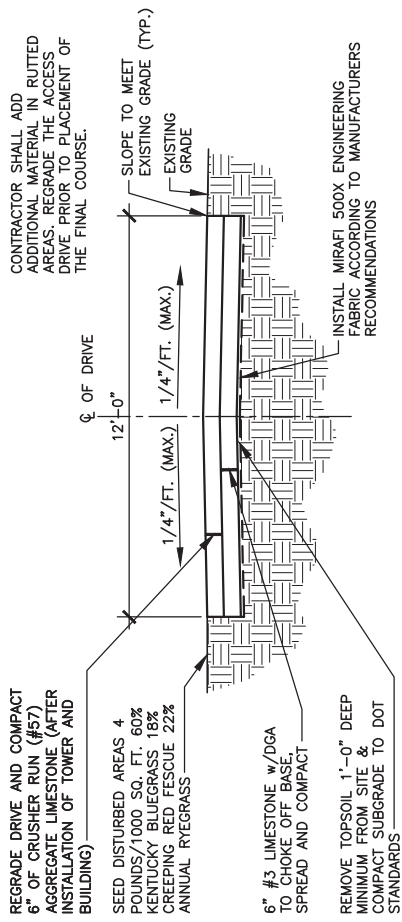
**4**  
**D-2**



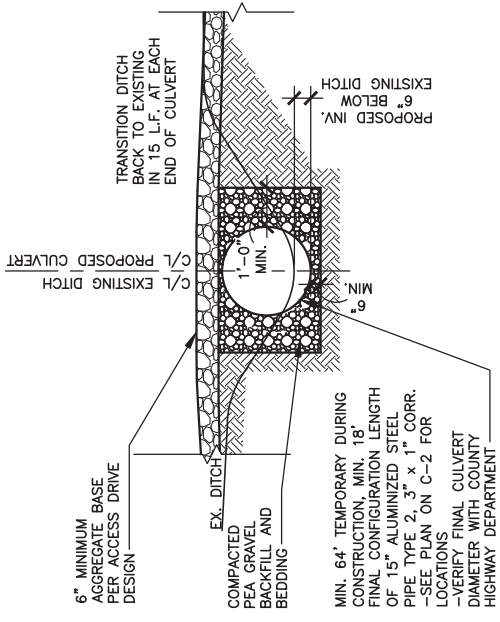
**5**  
**D-2**



**1**  
**D-2**



**2**  
**D-2**



**3**  
**D-2**



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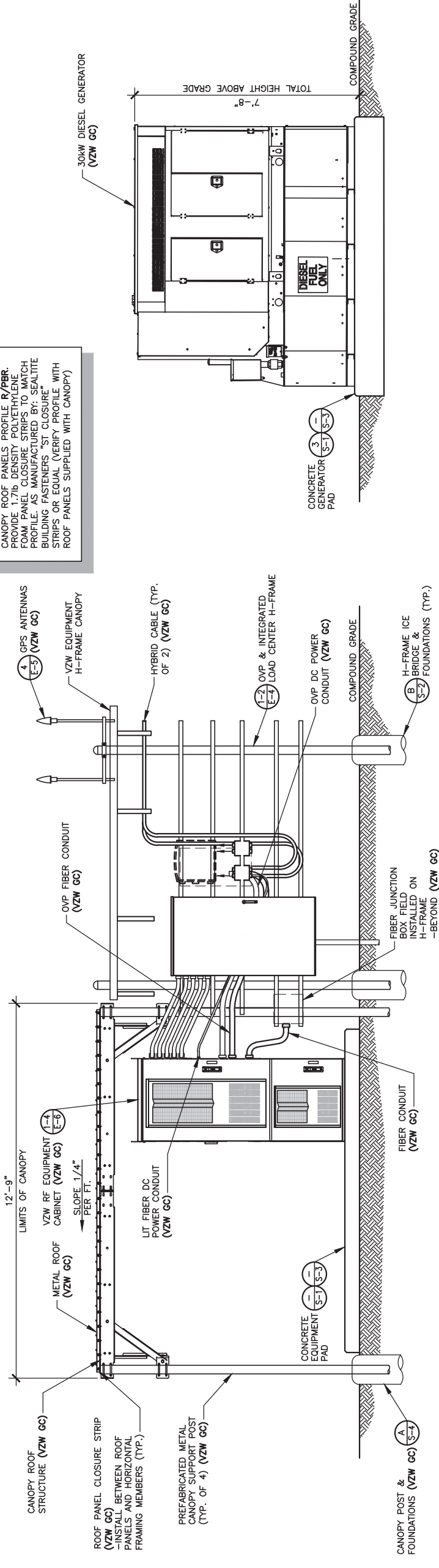
SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16933259  
 DRAWN BY: RC  
 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**EQUIPMENT PAD & CANOPY ELEVATIONS**

SHEET NUMBER:  
**D-3**  
 MK PAD & CANOPY REV. 3 FINAL 10/16/23

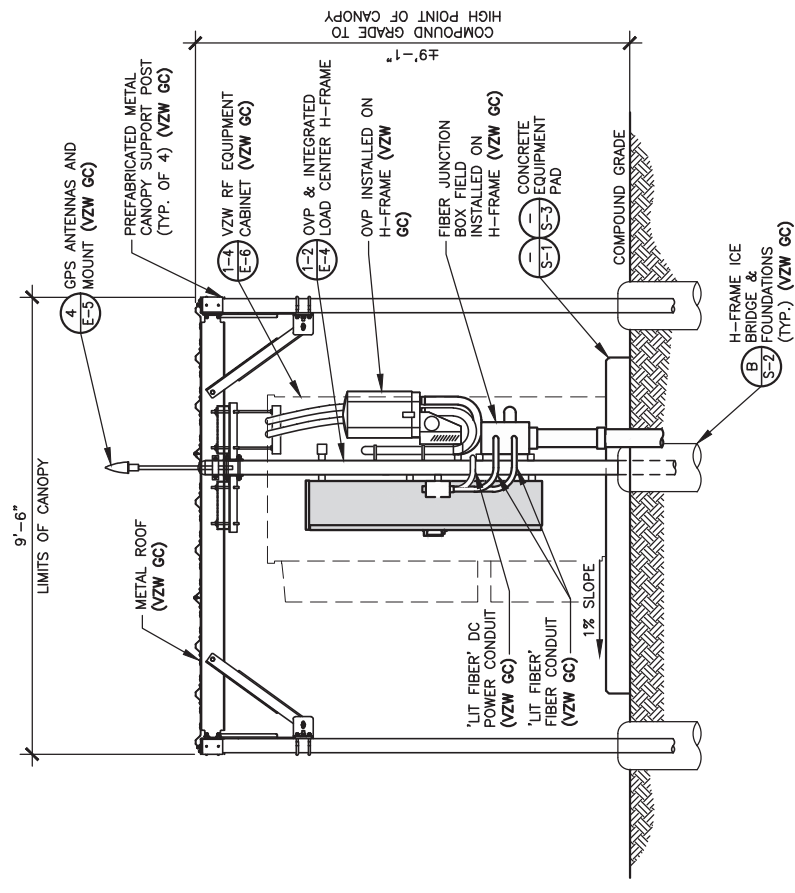
**NOTE:**  
 CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1/2" DENSITY POLYETHYLENE ROOF PANEL CLOSURE STRIP TO MATCH PROFILE. AS MANUFACTURED BY: SEALITE BUILDING FASTENERS. ST CLOSURE STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)



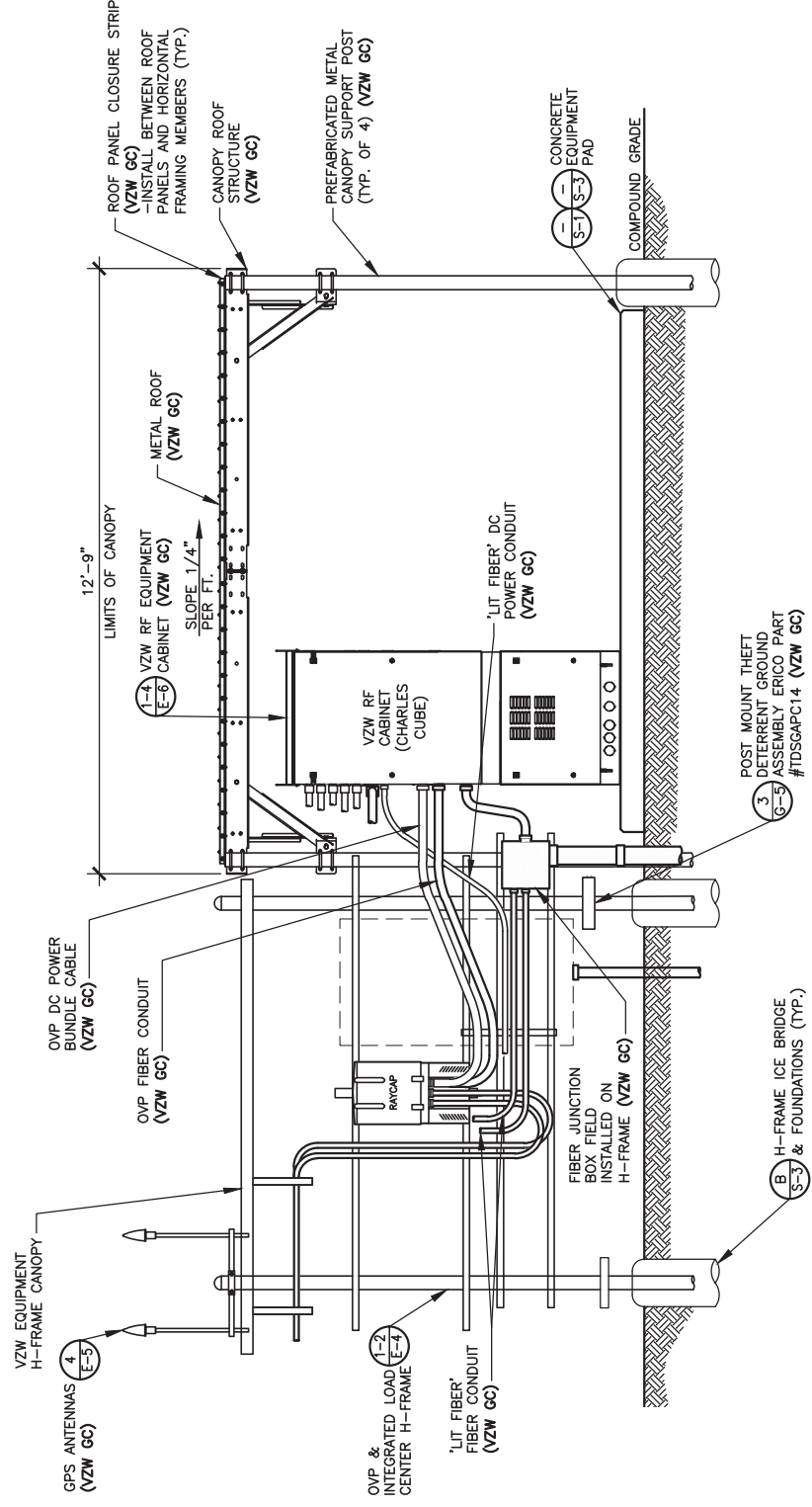
**GENERATOR ELEVATION**  
 SCALE: 1/4" = 1'-0"

**FRONT ELEVATION**  
 SCALE: 1/4" = 1'-0"

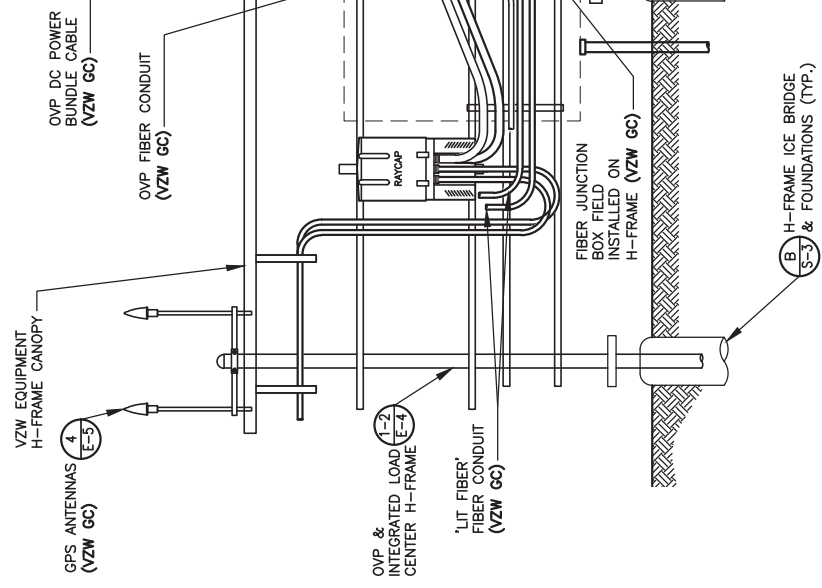
**NOTE:**  
 VERIZON WIRELESS 9'-6"x12'-9" RADIO EQUIPMENT CANOPY (CANOPY DWGS. SUPPLIED BY MANUFACTURER) (VZW GC) -COMMSCOPE P/N EQ-P0182-RC-B



**RIGHT ELEVATION**  
 SCALE: 1/4" = 1'-0"



**FRONT ELEVATION**  
 SCALE: 1/4" = 1'-0"



**REAR ELEVATION**  
 SCALE: 1/4" = 1'-0"

**STANDARD SITE SIGNAGE:**

REQUIRED SIGNS:	LOCATIONS:
(C1) • N.O.C. "IN CASE OF EMERGENCY"	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
(C2) • NOTICE (CONTACT INFO)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
(C3) • COMBINATION WARNING (SEE NOTE 2)	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES
(C4) • COMBINATION WARNING (SEE NOTE 2)	
(C5) • S.D.S.	

–N.O.C. STANDS FOR "NETWORK OPERATIONS CENTER"  
–S.D.S. STANDS FOR "SAFETY DATA SHEET"

**NOTES:**

- CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
- CONTRACTOR SHALL INSTALL SIGN C3 OR C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.

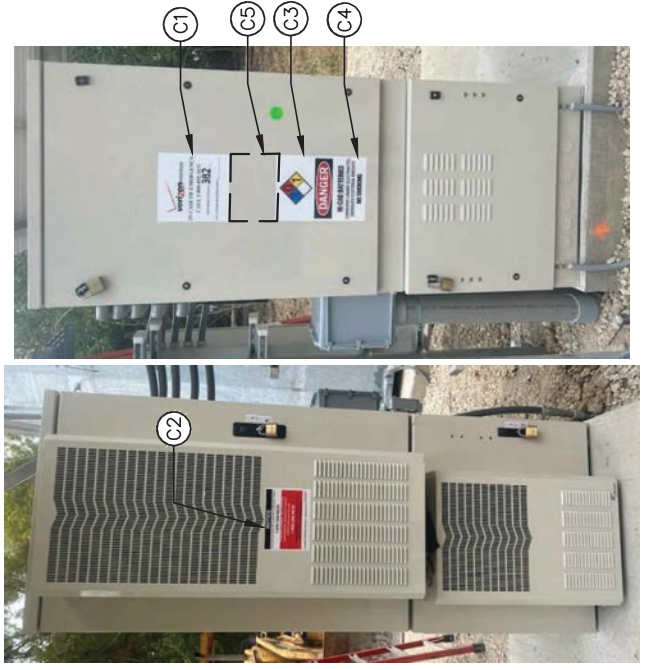
(C1)  IN CASE OF EMERGENCY CALL 999-432-3771 SITE PERMISSION # 1564 FCC FORMER REGISTRATION #

(C2)  NOTICE FOR SITE ACCESS FOR THE PROPERTY & EQUIPMENT OWNER 1-800-264-6620 CONTACT TRANSMISSIONS 24 HOUR HOTLINE 1-800-386-9639 ALL WIRELESS DEVICES MUST BE POWERED OFF

(C3)  DANGER LEAD ACID BATTERIES CORROSIVE LIQUIDS (ELECTROLYTE) ENERGIZED ELECTRICAL CIRCUITS NO SMOKING

(C4)  DANGER NI-CAD BATTERIES CORROSIVE LIQUIDS (ELECTROLYTE) ENERGIZED ELECTRICAL CIRCUITS NO SMOKING

(C5)  To obtain a Chemical Safety Data Sheet (SDS) or report a safety issue, call the Verizon 24 hour Hotline 1-800-386-9639



FRONT

REAR


FIGURE 1 – EQUIPMENT CABINET SIGNAGE


**SIGNAGE FOR EACH GENERATOR FUEL TYPE:**


**DIESEL GENERATOR**

REQUIRED SIGNS:	LOCATIONS:
(D1) • "DANGER DIESEL FUEL"	INSTALL ON GENERATOR (SEE FIGURE 6)
(D2) • HAZARD DIAMOND	
(D3) • NOTICE SIGN	
(D4) • FUEL TANK CAPACITY	

\*SIGNS D1 AND D2 MAY BE COMBINED TO A SINGLE SIGN

(D1)  DANGER DIESEL FUEL NO OPEN FLAMES

(D2) 

(D3)  NOTICE FOR SITE ACCESS FOR THE PROPERTY & EQUIPMENT OWNER 1-800-264-6620 CONTACT TRANSMISSIONS 24 HOUR HOTLINE 1-800-386-9639 ALL WIRELESS DEVICES MUST BE POWERED OFF


(D4)  GALLON DIESEL FUEL ONLY



FIGURE 6 – DIESEL GENERATOR SIGNAGE



FIGURE 5 – EME SIGN

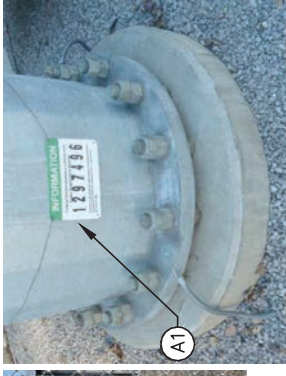


FIGURE 3 – TOWER A.S.R. SIGN



FIGURE 4 – FENCE COMPOUND A.S.R. SIGN

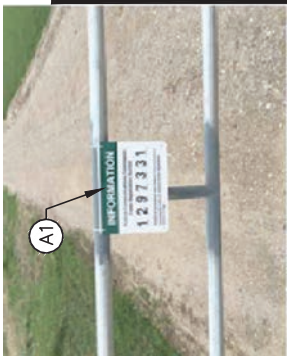


FIGURE 6 – DRIVEWAY A.S.R. SIGN

**E.M.E. SIGNAGE NOTES:**

- CONTRACTOR SHALL AT A MINIMUM INSTALL "NOTICE" ELECTROMAGNETIC ENVIRONMENT (E.M.E.) SIGNAGE ON COMPOUND FENCE AT ALL SITES. (SEE FIGURE 5)
- CONTRACTOR SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY ADDITIONAL E.M.E. SIGNAGE IS REQUIRED AT A SITE PRIOR TO SIGNAGE INSTALLATION. (SEE FIGURE 9)



(N1)



(W1)



(I1)



(V1)

FIGURE 9 – TYPICAL E.M.E. SIGNAGE

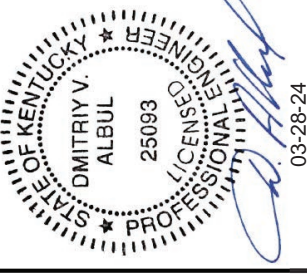


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SITE NAME:  
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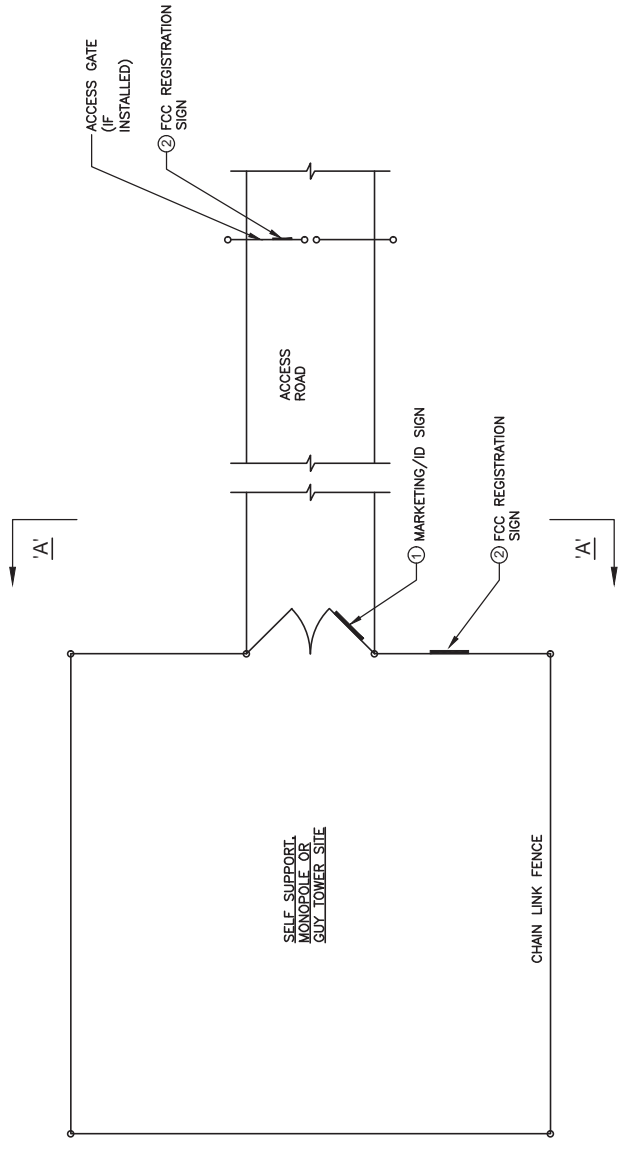
PID NUMBER: 16933259  
DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)

SHEET NUMBER:  
D-4  
MK PRO & CAMPO REV 3 FINAL 10/16/23

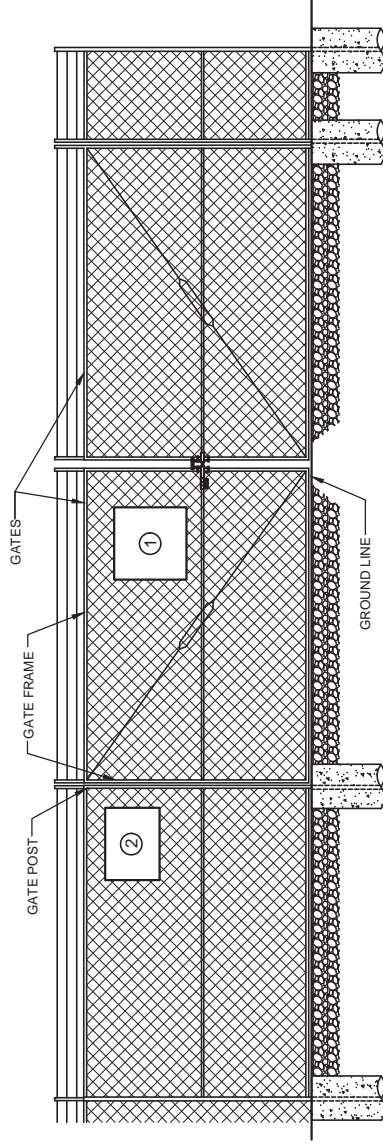
**NOTES:**

VERIZON WIRELESS SITE ID SIGN, REF SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONNEL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATION POLICY.



**TYPICAL SITE FENCE SIGNAGE PLAN**

SCALE: N. T. S.

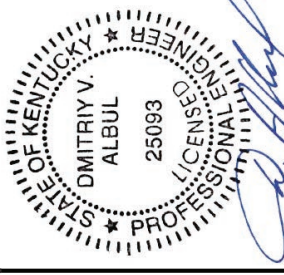


**ELEVATION "A-A"**

SCALE: N. T. S.



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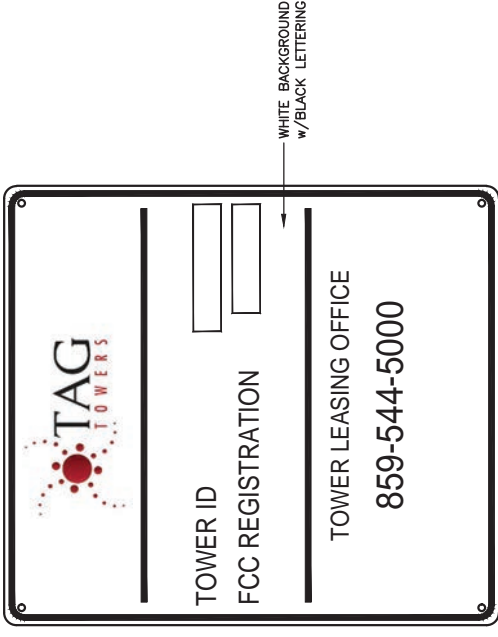
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 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)**

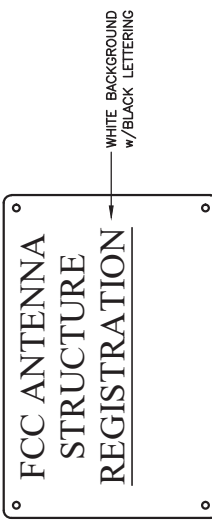
SHEET NUMBER:

**D-5**

INK PLO & CAMPT REV. 3 FINAL 10/16/23

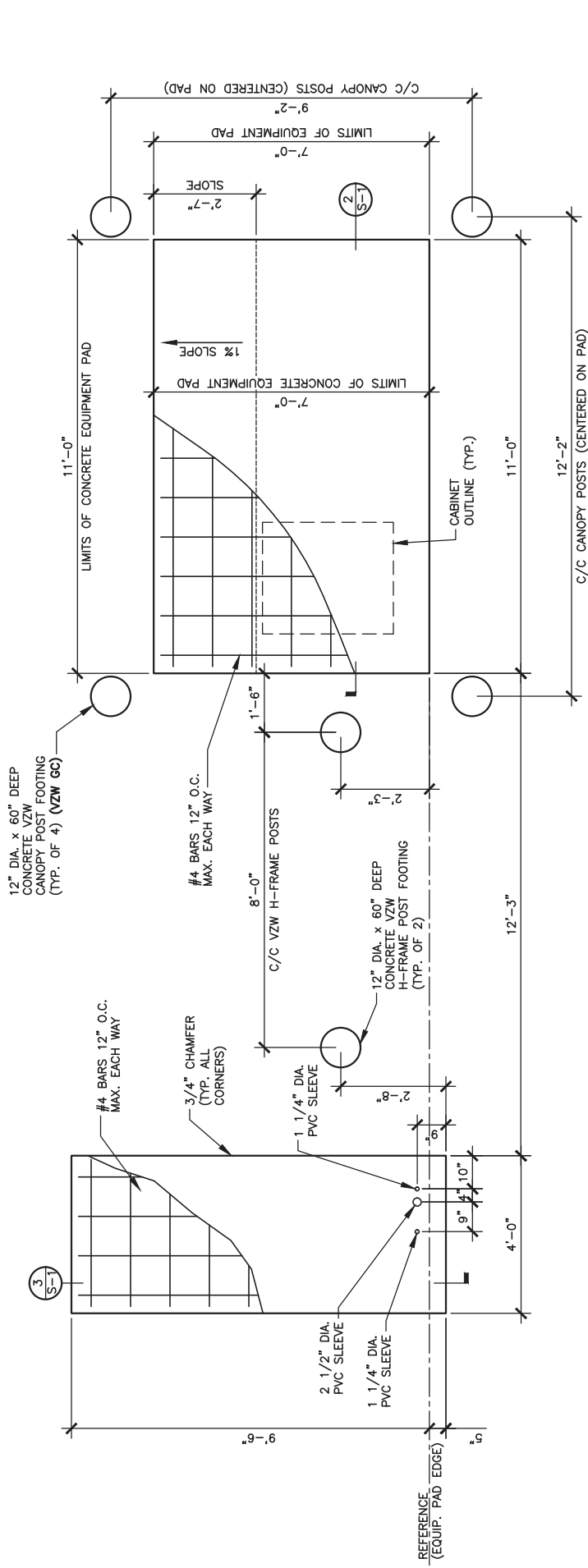


**MARKETING/ID SIGN**  
 24" WIDE x 24" HIGH



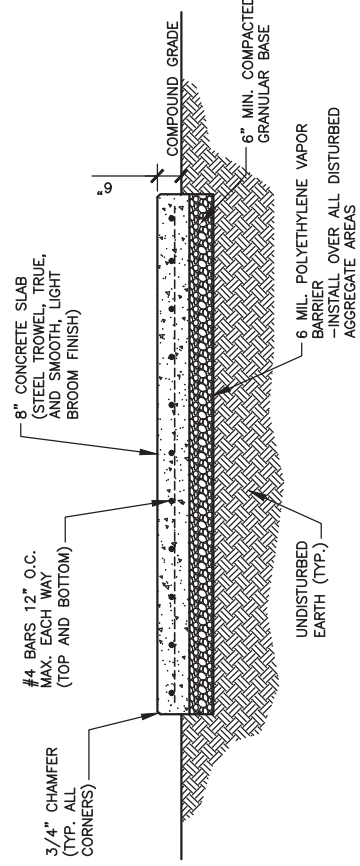
**FCC REGISTRATION SIGN**  
 24" WIDE x 18" HIGH

NOTE:  
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATHERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED



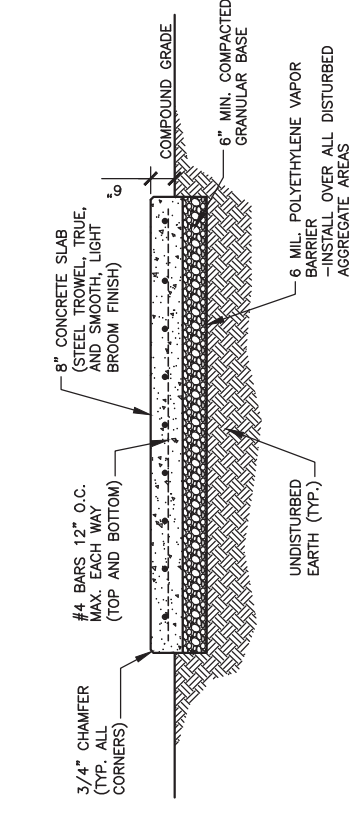
EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN  
SCALE: 1/4" = 1'-0"

1  
S-1



EQUIPMENT PAD FOUNDATION SECTION  
SCALE: 1/4" = 1'-0"

2  
S-1



GENERATOR PAD FOUNDATION SECTION  
SCALE: 1/4" = 1'-0"

3  
S-1

STRUCTURAL NOTES

- CANOPY SYSTEM DESIGN LOADINGS:**  
ROOF SNOW LOAD 70 PSF  
DEAD LOADS ACTUAL MATERIAL WEIGHTS  
BASIC WIND SPEED 120 MPH
- DESIGN CODES  
INTERNATIONAL BUILDING CODE (IBC) 2015  
MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE7-10  
OSHA REGULATIONS

- STRUCTURAL STEEL:**  
PIPE - ASTM A53 TYPE E OR S GRADE B, OR ASTM A501.  
STRUCTURE FINISH - AFTER FABRICATION ACCORDING TO ASTM A123.
  - BUILDING FOUNDATION SYSTEM:**  
THE SUBSURFACE REPORT WAS PROVIDED BY XYZ ENGINEERING, INC., DATED MONTH DAY, YEAR.  
ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS \*\*\*\* PSF
- ALL CONTRACTORS SHALL EXERCISE GREAT CARE DURING EXCAVATION. ALL CONTRACTORS SHALL DETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST.

THE SUBSURFACE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF CONDUCTING SOIL TESTING AND VERIFICATION OF EXISTING CONDITIONS.

FOUNDATION SUBGRADES SHALL BE HAND TRIMMED AND COMPACTED. ALL BACKFILL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.

- CONCRETE WORK:**  
CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE ONE (1) CYLINDER SAMPLE TAKEN PER TRUCK OR FOUR (4) TOTAL FOR BUILDING FOUNDATION AND THE CONCRETE MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO VERIZON WIRELESS AND TOWER OWNER CONSTRUCTION MANAGERS. FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

SPECIFICATIONS  
- LATEST EDITION OF ACI-318 AS ADOPTED BY THE STATE OF KENTUCKY  
- BLDG. FOUNDATION F<sub>c</sub> = 4000 PSI @ 28 DAYS  
2-4" SLUMP

MATERIALS  
- REINFORCING ASTM A615, GRADE 60  
- ANCHOR BOLTS ASTM F1554 A36

REINFORCING COVERS  
- FOOTINGS 2"  
TOP  
- BOTTOM/SIDES 3"

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

BAR SIZE #4 ANCHORAGE 12" SPLICE (OTHER) 25" ANCHORAGE (TOP) 25" SPLICE (TOP) 33"

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (3/4")

- BURIED CABLE LOCATIONS INFORMATION**  
CONTACT KENTUCKY 811 48 HR. PRIOR TO DIGGING, GRADING, OR DRILLING 1-800-752-6007 OR 811

ADDITIONAL CONCRETE NOTES:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI#96, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 305, 306 AND 307 UNLESS NOTED OTHERWISE.
- ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-11.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±1%) AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.



Know what's below.  
Call before you dig.  
Call Monday thru Friday - 7 a.m. to 6 p.m.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE COMMENCING WORK.



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CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES

SHEET NUMBER:  
S-1

MK PAD & CANOPY REV. 3 FINAL 10/16/23



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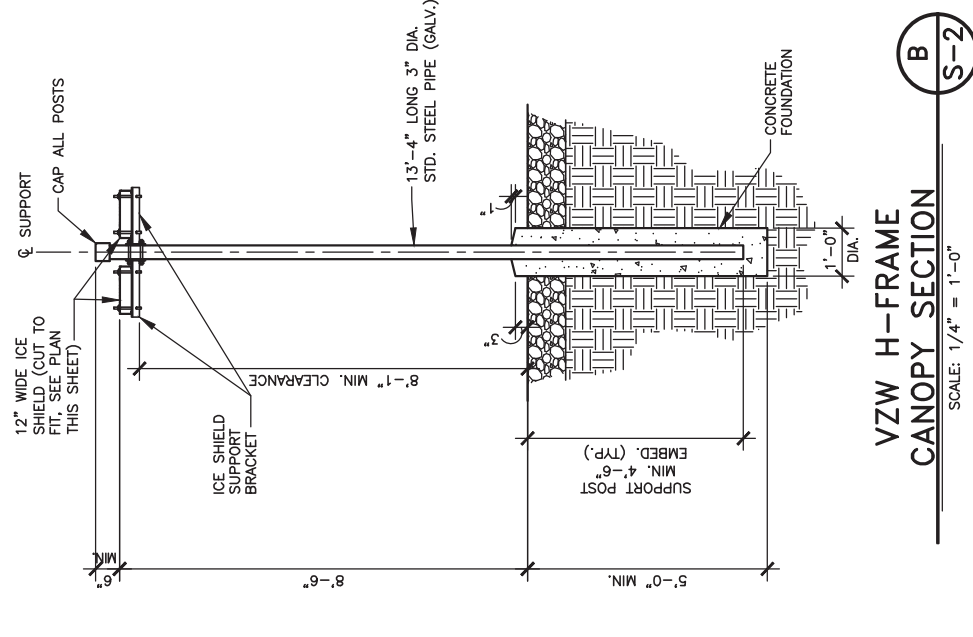
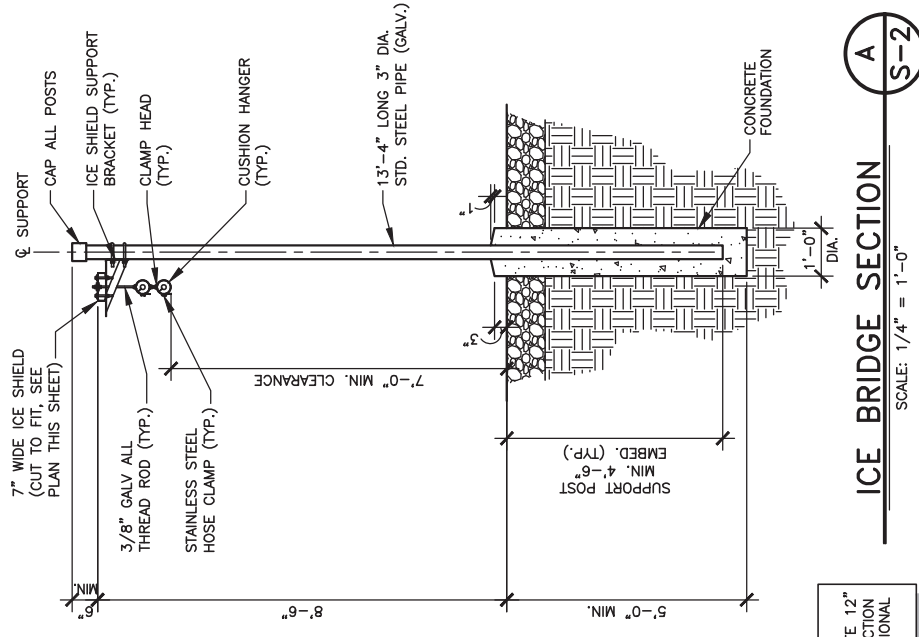
SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16833259  
DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

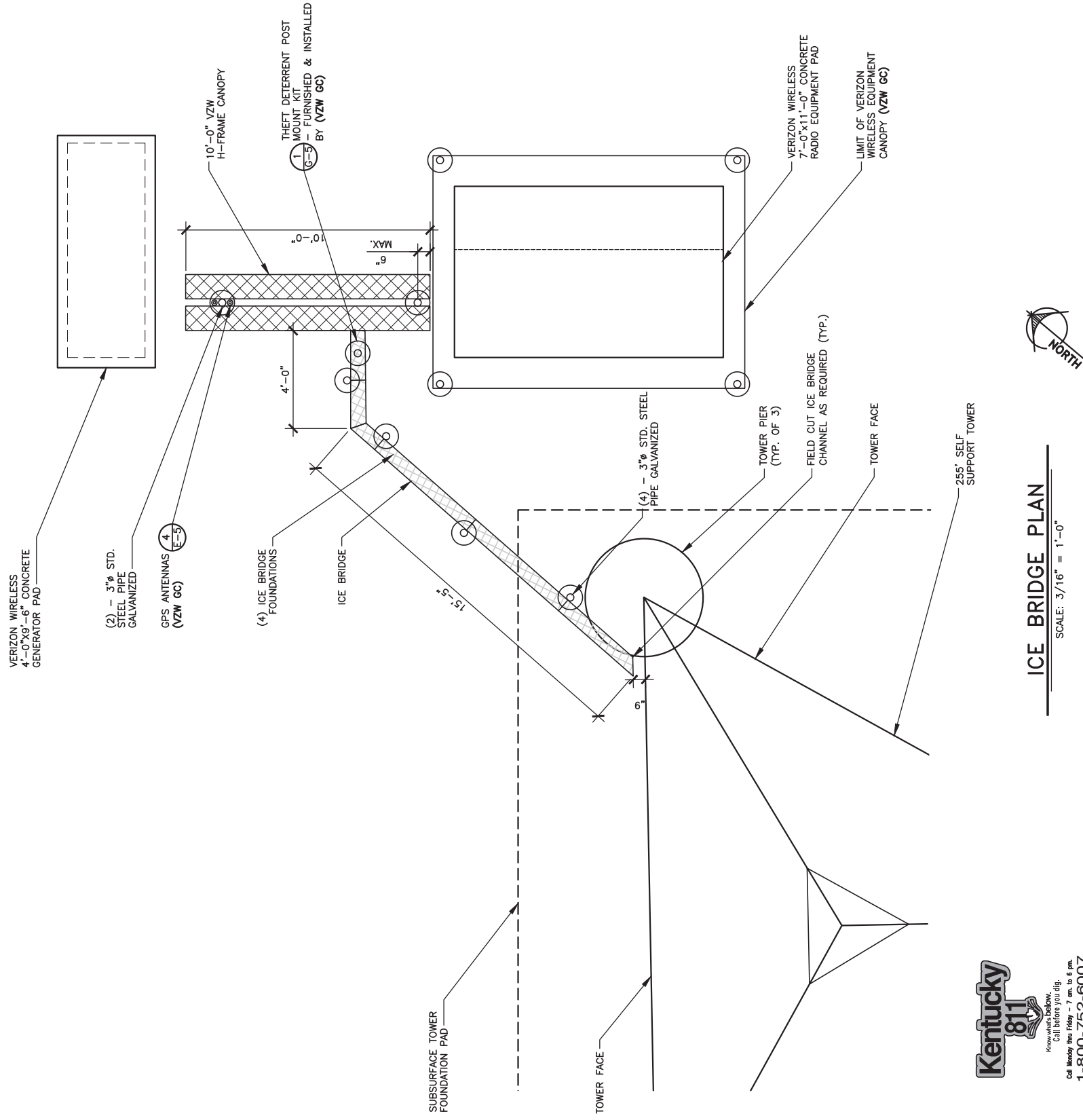
SHEET TITLE:  
**ICE BRIDGE PLAN AND DETAILS**

SHEET NUMBER:  
**S-2**

WK PROJ & CANOPY REV 3 FINAL 10/16/23



**NOTE:**  
CONTRACTOR MAY SUBSTITUTE 12" ICE BRIDGE FOR THE 7" SECTION TO THE TOWER IF NO ADDITIONAL COST TO VZW



Call before you dig.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE PUBLIC INTEREST TO ALLOW ANY UNDETERMINED UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



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SITE INFORMATION:  
03-28-24

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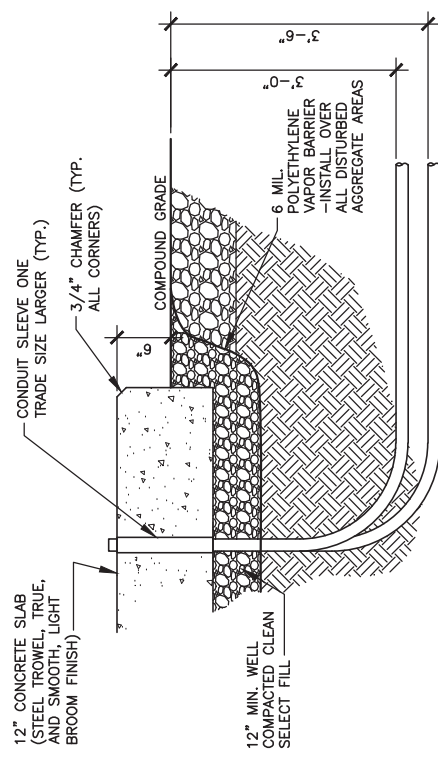
SHEET TITLE:

FOUNDATION PLAN AND DETAILS

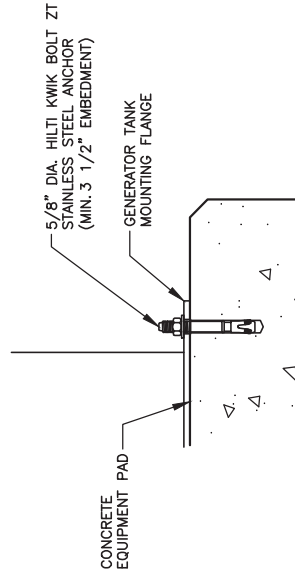
SHEET NUMBER:

S-3

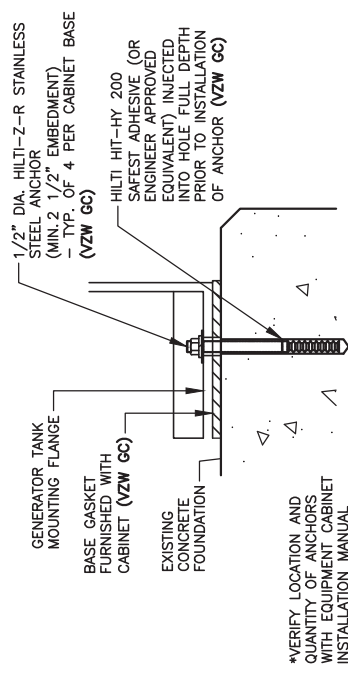
WK PAD & CANOPY REV. 3 FINAL 10/16/23



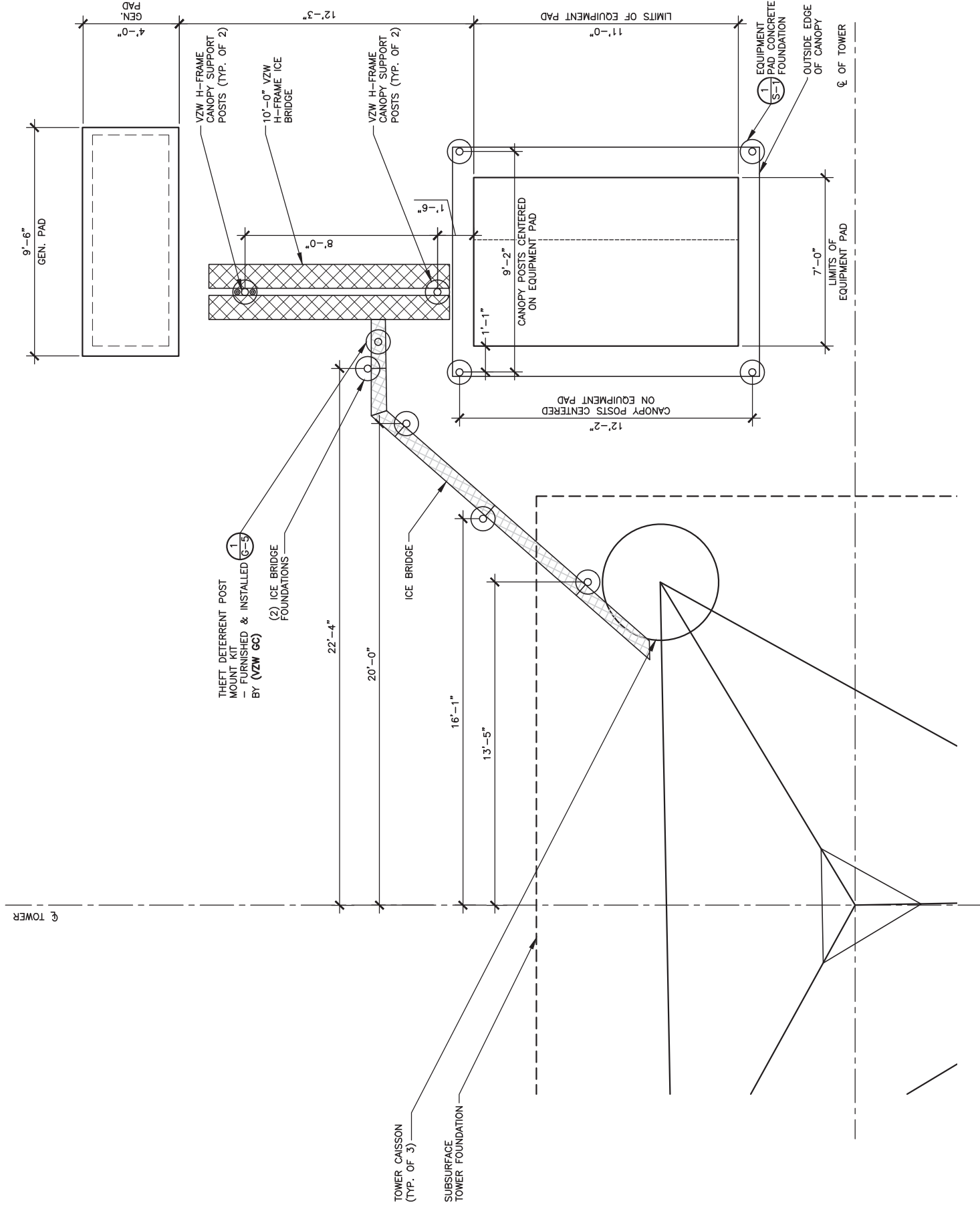
**CONDUIT PENETRATION DETAIL**  
SCALE: N.T.S.



**GENERATOR ANCHOR DETAIL**  
SCALE: N. T. S. (VZW GC)



**EQUIPMENT CABINET MOUNTING DETAIL**  
SCALE: N. T. S.



**FOUNDATION PLAN**  
SCALE: 3/16" = 1'-0"



Know what's below. Call before you dig.  
Call 811 for more information.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO CONDUCT ANY UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

259'-0" TOP OF APPURTENANCE  
 TOTAL TOWER HEIGHT  
 255'-0" TOP OF TOWER

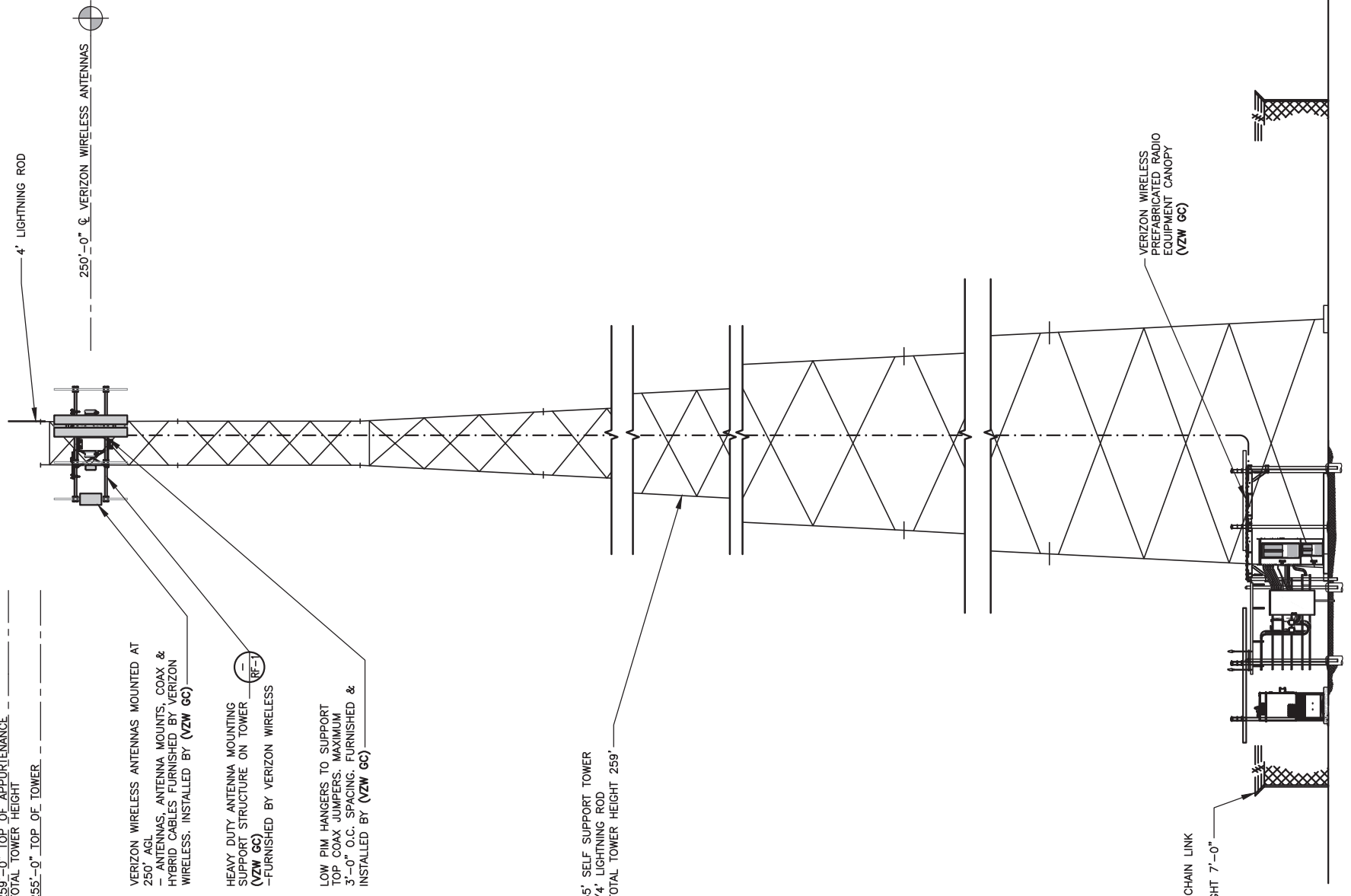
VERIZON WIRELESS ANTENNAS MOUNTED AT 250' AGL  
 - ANTENNAS, ANTENNA MOUNTS, COAX & HYBRID CABLES FURNISHED BY VERIZON WIRELESS. INSTALLED BY (VZW GC)

HEAVY DUTY ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER (VZW GC)  
 -FURNISHED BY VERIZON WIRELESS

LOW PIM HANGERS TO SUPPORT TOP COAX JUMPERS. MAXIMUM 3'-0" O.C. SPACING. FURNISHED & INSTALLED BY (VZW GC)

255' SELF SUPPORT TOWER w/4' LIGHTNING ROD  
 -TOTAL TOWER HEIGHT 259'

6'-0" TALL CHAIN LINK FENCE  
 -TOTAL HEIGHT 7'-0"



**NOTE:**

- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP/d/g VERIZON WIRELESS (VZW GC)
- ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.

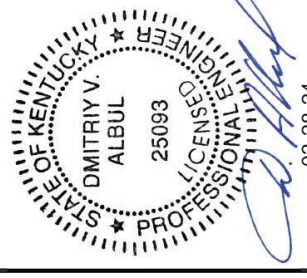


TAG TOWERS, LLC  
 108 FORBES COURT, SUITE 1  
 RICHMOND, KY 40475  
 859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
 Wixom, Michigan 48393  
 PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
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B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



03-28-24

**SITE INFORMATION:**  
**CK WILLOW SHADE WEST**  
 6981 KY-90  
 SUMMER SHADE, KY 42166  
 METCALFE COUNTY

**SITE NUMBER:**  
 723518

**SITE NAME:**  
 CK WILLOW SHADE WEST

**PID NUMBER:** 16833259  
**DRAWN BY:** RC  
**CHECKED BY:** PL  
**DATE:** 11.29.23

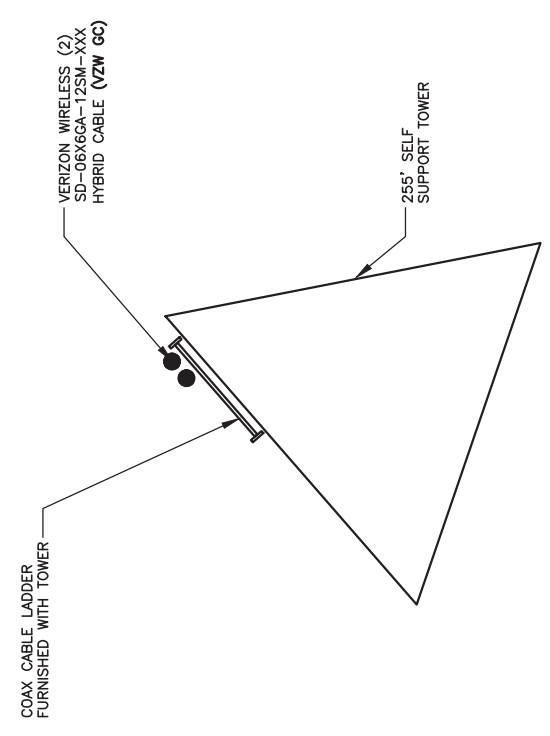
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 TOWER ELEVATION

**SHEET NUMBER:**  
 TE-1

SCALE: N.T.S.  
 1  
 TE-1

**COAX PLAN**

SCALE: N.T.S.



**TOWER ELEVATION**  
 1  
 TE-1

SCALE: N.T.S.

MK PWD & CANOPY REV. 3 FINAL 10/16/23





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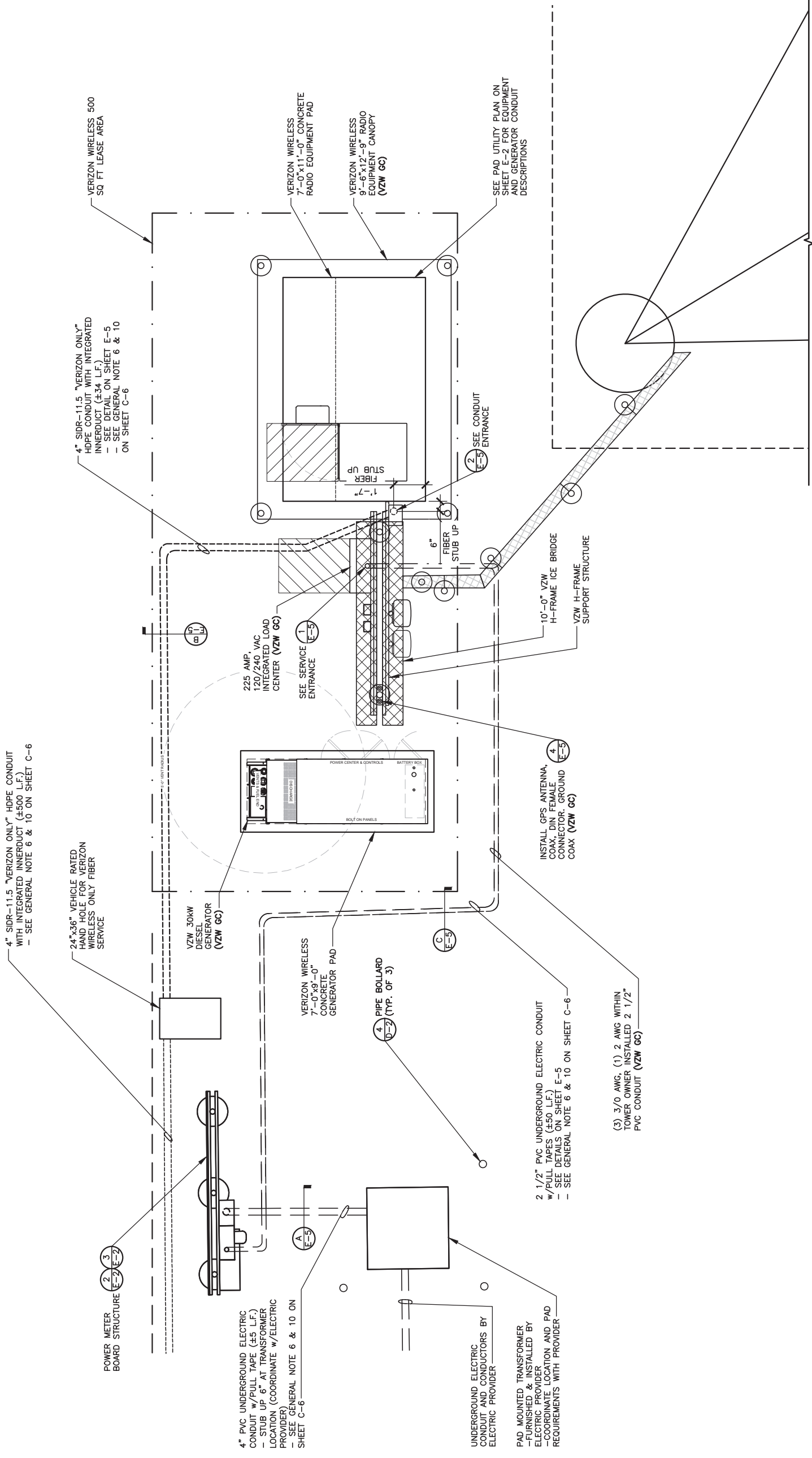
SHEET TITLE:

**SITE UTILITY PLAN**

SHEET NUMBER:

**E-1**

WK PAD & CANOPY REV. 3 FINAL 10/16/23



**ELECTRICAL NOTES:**

1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER IMC WITH WEATHERPROOF FITTINGS.

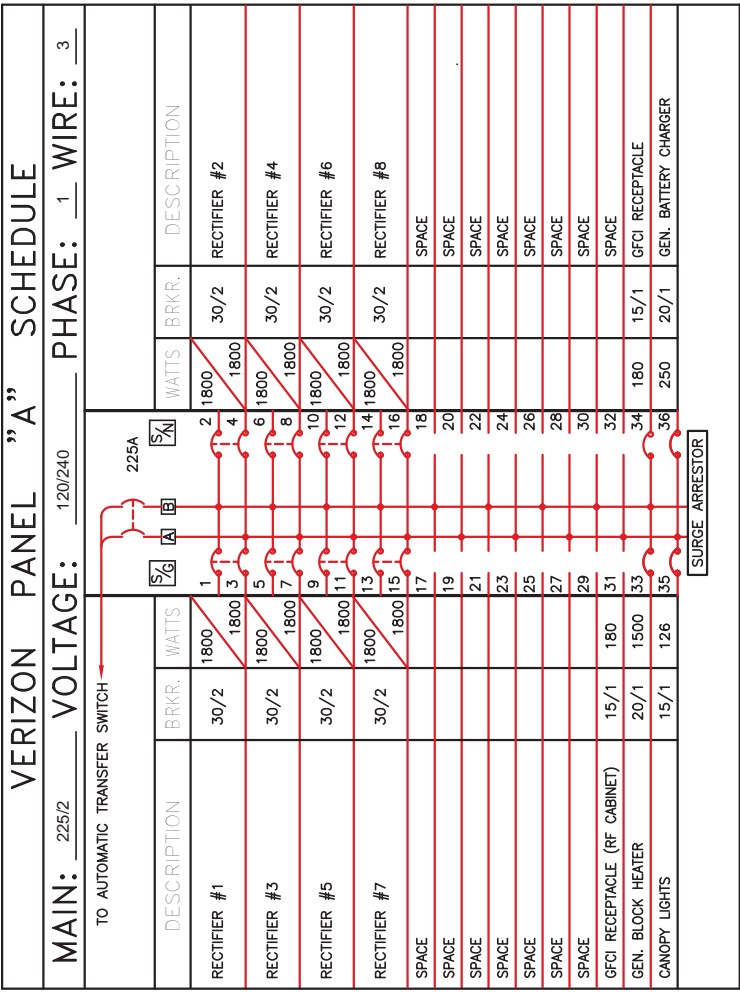


**SITE UTILITY PLAN**

SCALE: N.T.S.



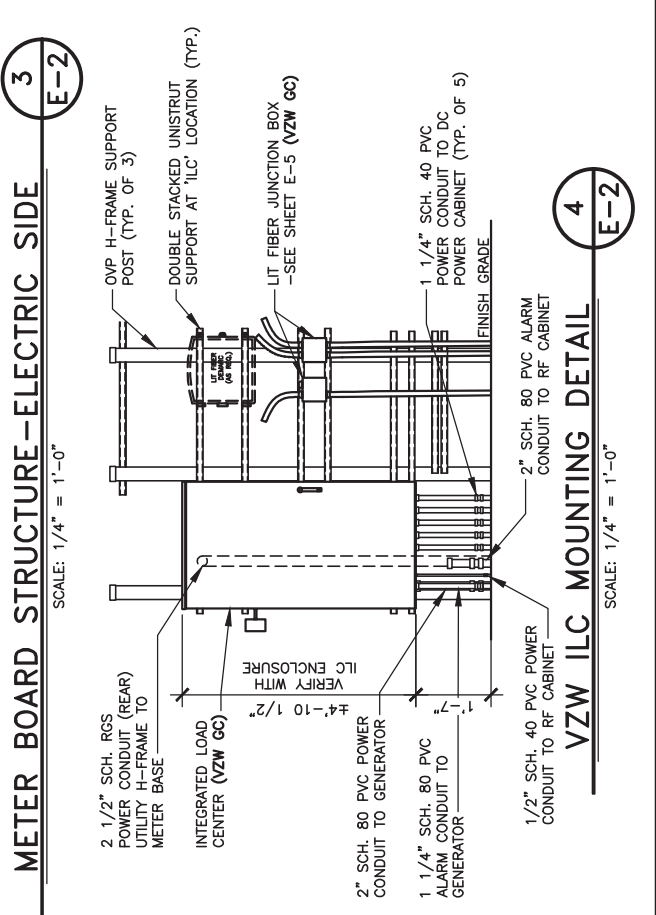
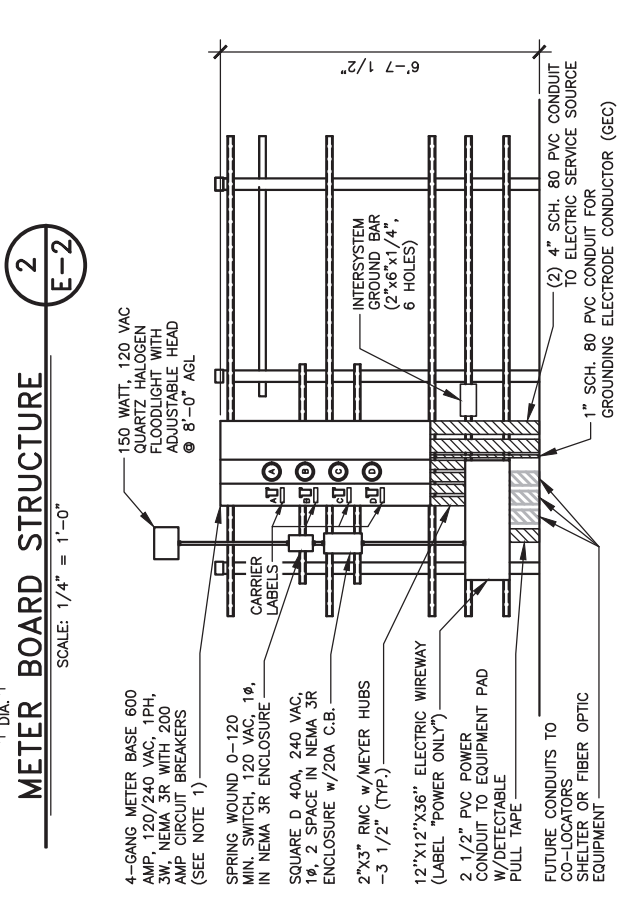
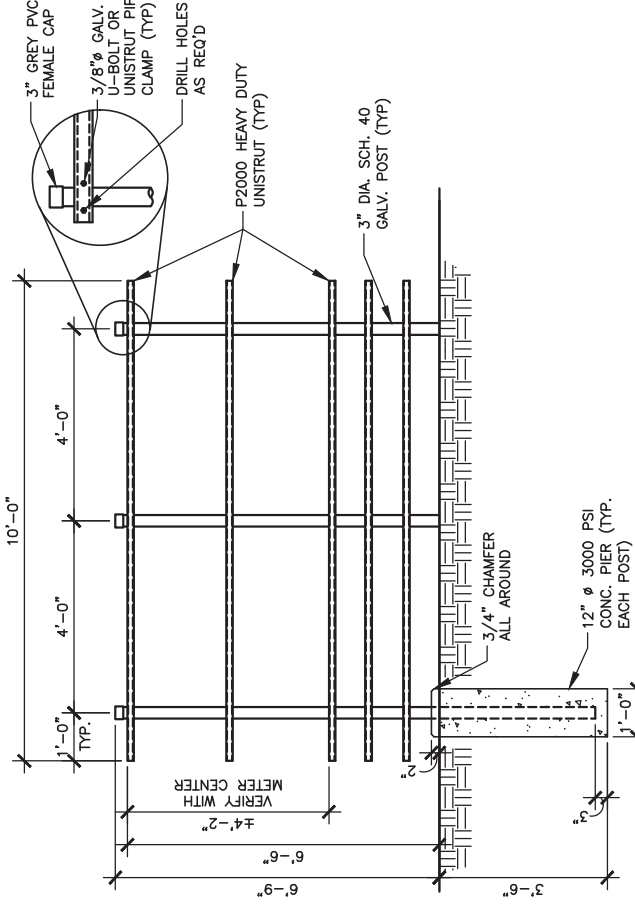
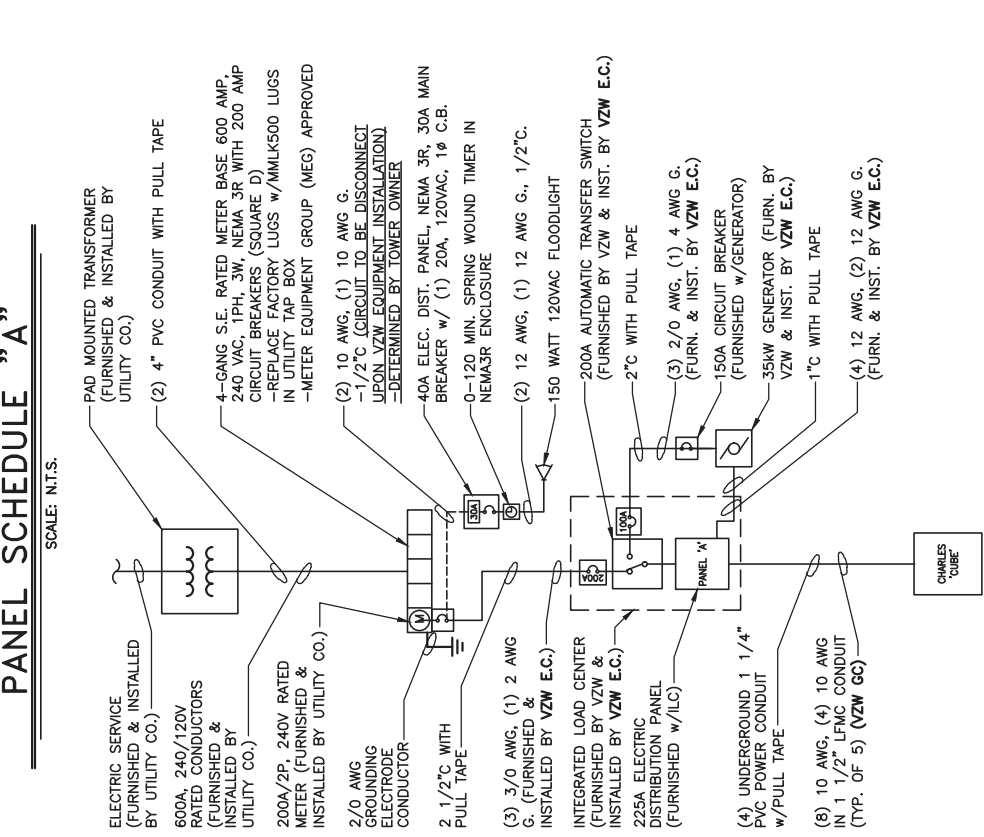
Know what's below.  
Call before you dig.  
Call before you dig - 7 am. to 6 pm.  
1-800-752-6007  
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO CONDUCT ANY EXCAVATING OR UNDERGROUND UTILITY LOCATING WORK, WORKING DAYS BEFORE COMMENCING WORK.



NON-CONTINUOUS LOAD = 0.00 KW, 00.00 AMPS  
 CONTINUOUS LOAD = 31.04 KW X 1.25 = 38.80 KW, 161.67 AMPS  
 TOTAL CONNECTED LOAD = 38.80 KW, 161.67 AMPS

### PANEL SCHEDULE "A"

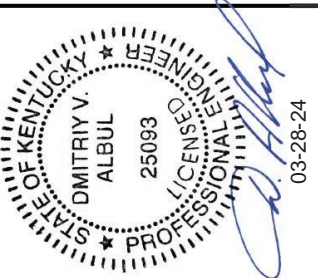
SCALE: N.T.S.



- ### GENERAL ELECTRICAL NOTES
- UNLESS NOTED AS VERIZON WIRELESS GENERAL CONTRACTOR OR VZW GC, ALL WORK ITEMS ON ELECTRICAL "E" & GROUNDING "G" SHEETS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR. ALL WORK SHOWN AS NEW UNLESS NOTED OTHERWISE.
  - THE GENERAL CONTRACTOR AND VERIZON WIRELESS ELECTRICAL CONTRACTORS SHALL BE LICENSED TO PERFORM WORK IN THE COUNTY OF THIS PROJECT AND SHALL BE RESPONSIBLE FOR OBTAINING AN ELECTRICAL PERMIT FROM THE COUNTY.
  - UNDERGROUND CONDUIT SHALL BE SCH. 40 (SCH. 80 UNDER ROADWAY) PVC PLASTIC DUCT WITH ALL BENDS MINIMUM 24" RADIUS 90° SWEEP SCH. 80 UNLESS OTHERWISE NOTED ON DRAWINGS. ELECTRICAL AND FIBER UTILITY LATERAL CONDUITS SHALL BE MINIMUM 36" RADIUS 90° SWEEP SCH. 80. ALL PVC SCH80 PIPING AND FITTINGS SHALL USE BELL END WHERE FEASIBLE.
  - ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 80 PVC WITH MATCHING FITTINGS UNLESS NOTED OTHERWISE.
  - ALL CONDUITS SHALL BE PLACED WITH 200 LB POLYETHYLENE PULL TAPES. PULL TAPES SHALL BE SECURELY FASTENED AT EACH END OF CONDUIT. (THIS SHALL ALSO APPLY FOR ALL FIBER CONDUITS).
  - PRIOR TO TRENCHING AND FOR COORDINATING OF THE FIBER AND ELECTRICAL SERVICES, SEE SHEET C-6 GENERAL NOTE #6 FOR UTILITY CONTACT NAMES & PHONE NUMBERS TO ALSO INCLUDE VERIZON WIRELESS CONSTRUCTION MANAGER.
  - ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
  - ALL WIRE SHALL BE COPPER, 600V THHN-2/THWN-2 OR XHHW-2 90°C UNLESS NOTED OTHERWISE.
  - ALL ELECTRICAL CONTRACTORS SHALL ABIDE BY ALL GUIDELINES REQUIRED BY TOWER OWNER AND VERIZON WIRELESS, INCLUDING BUT NOT LIMITED TO: a) STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE. b) PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER. c) PROVIDE R.F. MONITORING TRENCHING BEFORE BACKFILLING. d) VERIZON WIRELESS TO INSPECT ALL TRENCHING BEFORE BACKFILLING.
  - THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUITS SHOWN ON PLANS UNLESS NOTED OTHERWISE. ALL UNDERGROUND CONDUIT SHALL BE STUBBED-UP AND CAPPED AT THE LOCATION INDICATED ON PLANS. VZW CONTRACTOR SHALL COMPLETE ALL CONDUIT TERMINATIONS TO VZW ENCLOSURES SHOWN ON PLANS AND ELECTRICAL PROVIDER DESIGN.
  - THE VZW ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE REQUIRED:
    - 120/240V, SINGLE PHASE, 200 AMP BEFORE ROUGH IN.
  - GENERAL CONTRACTOR AND VZW ELECTRICAL CONTRACTORS SHALL PROVIDE FIRE WATCH DURING ALL WELDING OPERATIONS. TWO (2) HAND HELD 30 LB. FIRE EXTINGUISHERS & ADEQUATE WATER SUPPLY SHALL BE APPROVED BY THE CLIENT AND THE TOWNSHIP WATER AUTHORITY.
  - SEAL ALL PENETRATIONS WITH SILICONE SEALANT.
  - ELECTRICAL WORK PRESENTS SPECIFIC THREATS TO THE HEALTH AND SAFETY OF WORKERS ON SITE. SPECIFICALLY ELECTROCUTIONS ARE THE FORTHE LEADING CAUSE OF DEATH ON CONSTRUCTION SITES. ALL ELECTRICAL WORKERS SHALL HAVE CURRENT CERTIFICATIONS WHICH SATISFY ALL TRAINING REQUIREMENTS FOR THE ELECTRICAL WORK THEY ARE PERFORMING PER OSHA STANDARDS. ALL ELECTRICAL WORKERS SHALL ADHERE TO ALL SAFETY RULES AND REGULATIONS FOR WORKER AND PUBLIC SAFETY. ALL WORK SHALL BE PERFORMED BY TAGS PREPARED FOR EACH TASK. THE CONTRACTOR SHALL REVIEW AND THE OWNER, PRIME CONTRACTOR, CARRIER, OSHA, N.F.P.A. AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.
  - CONNECT NEUTRAL TERMINAL IN SERVICE DISCONNECTING DEVICE TO GROUNDING ELECTRODE (2/0 AWG TINNED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT FIRST GROUNDING ELECTRODE TO SECOND GROUNDING ELECTRODE WITH 2/0 AWG TINNED STRANDED COPPER CONDUCTOR EXOTHERMICALLY WELDED TO ELECTRODES.
  - VZW E.C. SHALL VERIFY SUFFICIENT CAPACITY EXISTS AT EXISTING METER CENTER. NOTIFY ENGINEER IMMEDIATELY IF SERVICE IS NOT ADEQUATE.
  - REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE REQUIREMENTS.
  - ALL ELECTRICAL EQUIPMENT PLACARDS MUST BE ENGRAVED PLASTIC LABELS ONLY. NO P-TOUCH LABELS ARE TO BE USED. PLACARDS SHALL BE 1 1/2" x 5" IN. SIZE AND PERMANENTLY AFFIXED TO THE ENCLOSURES EASILY VISIBLE LOCATIONS.
  - VERIZON WIRELESS ELECTRICAL PLACARD REQUIREMENTS:
    - AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE.
    - VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE.
    - VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER "ILC".
    - GENERATOR NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND AUTOMATIC TRANSFER SWITCH "ATS" NEUTRAL BAR.
    - VERIZON WIRELESS GENERATOR
    - "ACCESS PROPERTY OF VERIZON WIRELESS" AT ALL VERIZON WIRELESS FIBER HAND HOLES FASTENED TO INSIDE WALL OF HAND HOLE.
    - ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
  - ELECTRICAL EQUIPMENT SHALL BE MIN. 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
  - 2 AWG BARE SOLID TINNED COPPER WIRE LEADS FROM NEW H-F-RAME STRUCTURE TO BE BONDED TO EXISTING GROUNDING SYSTEM (TYP)
  - ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH 2 AWG TO GROUND RING.
  - ALL ABOVE GRADE GROUND VZW CONNECTIONS SHALL BE IN 1/2" FLEXIBLE PVC CONDUIT w/ANTI-THEFT COMPOUND. ALL OTHER LEADS SHALL BE IN 1/2" PVC CONDUIT.
  - ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL, NO ZINC OR OTHER MATERIAL IS TO BE USED.
  - VERIZON WIRELESS FURNISH & INSTALL ALL INNER CONNECTING CONDUITS BETWEEN CABINETS AND LAND ALL AC POWER TO VZW EQUIPMENT.
  - ALL CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE METERBOARD SO THAT WATER WILL NOT FLOW FROM THE EQUIPMENT. TRENCHES SHALL BE EXCAVATED ALONG STRAIGHT LINES BEFORE CONDUIT ARE INSTALLED SO THE ELEVATION CAN BE ADJUSTED, IF NECESSARY, TO AVOID UNSEEN OBSTACLES.
  - PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.



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SITE INFORMATION:  
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 6981 KY-90  
 SUMMER SHADE, KY 42166  
 METCALFE COUNTY

SITE NUMBER:  
**723518**

SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER:  
 16933259

DRAWN BY: RC  
 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS**

SHEET NUMBER:  
**E-2**

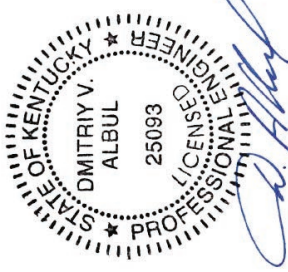


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859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
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03-28-24

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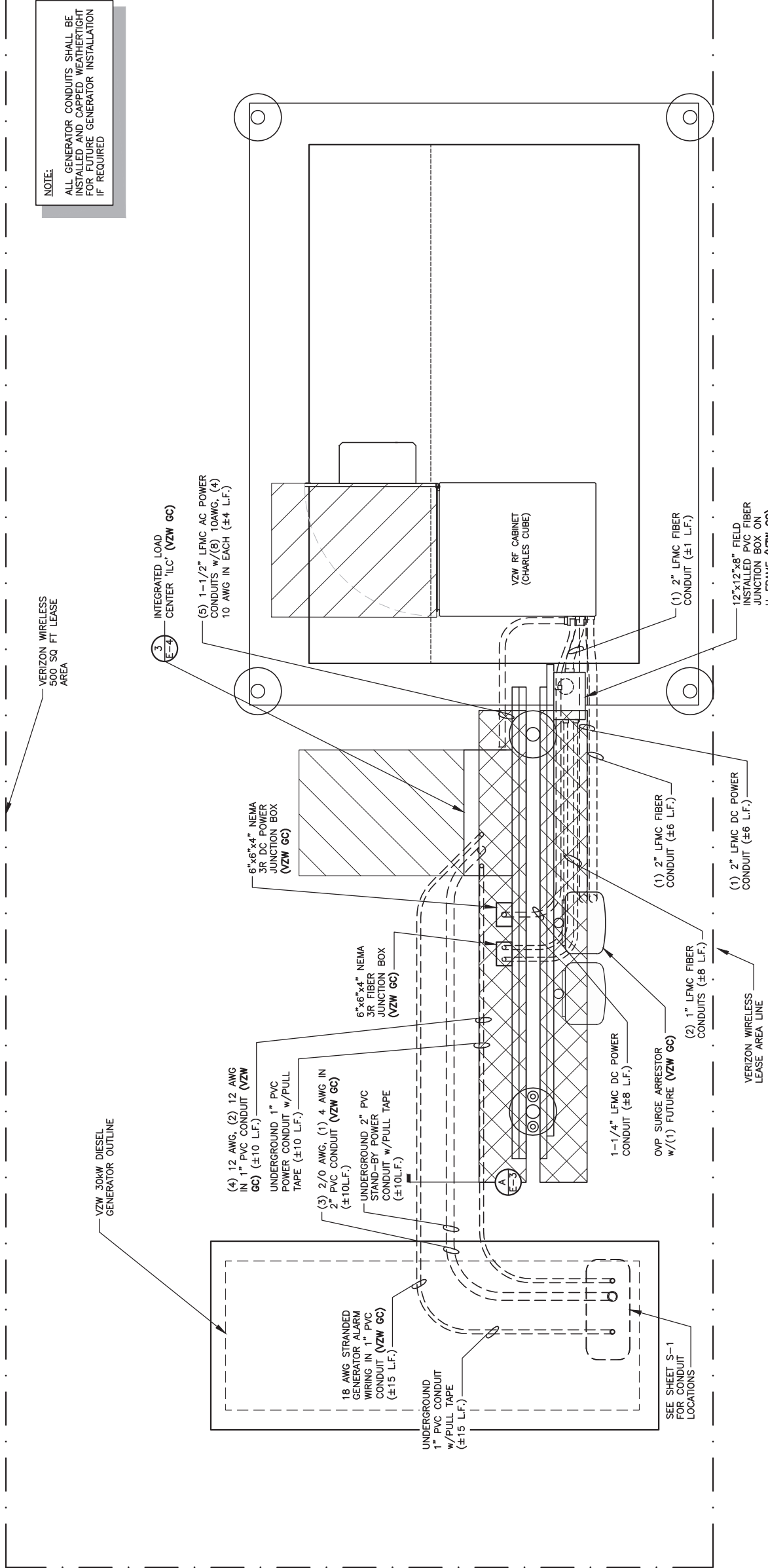
SHEET TITLE:  
**EQUIPMENT PAD  
UTILITY PLAN &  
EQUIPMENT PAD  
TRENCH SECTIONS**

SHEET NUMBER:  
E-3

SCALE: 3/8" = 1'-0"

WK PROJ & CAMPY REV 3 FINAL 10/16/23

**NOTE:**  
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATHERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED

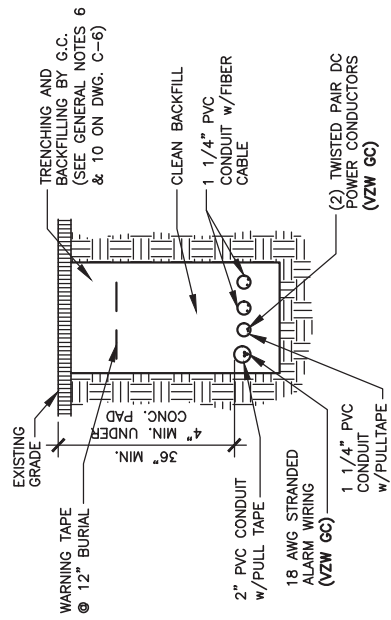


- ELECTRICAL NOTES:**
1. PROVIDE 6'-0" MAX. LIQUDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT CONNECTIONS.
  2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
  3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
  4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER SCH40 PVC WITH WEATHERPROOF FITTINGS.
  5. ALL GENERATOR CONDUITS SHALL BE INSTALLED REGARDLESS OF INITIAL GENERATOR INSTALLATION.



**EQUIPMENT PAD UTILITY PLAN**

SCALE: 3/8" = 1'-0"



**RF CABINET FEEDER TRENCH SECTION DETAIL**

SCALE: N.T.S.

A  
E-3

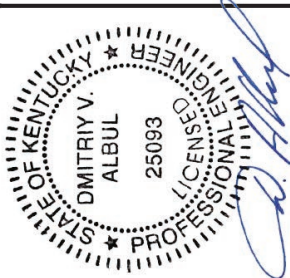


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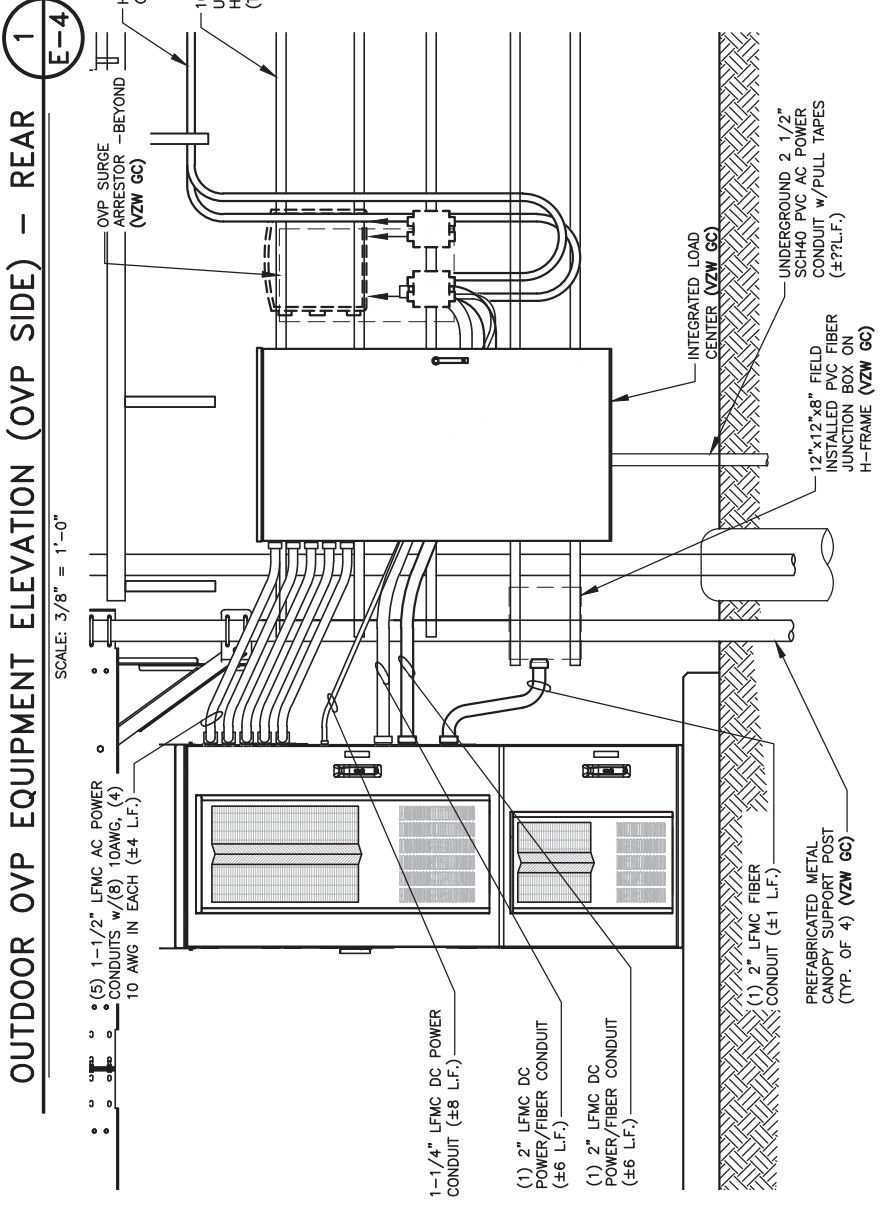
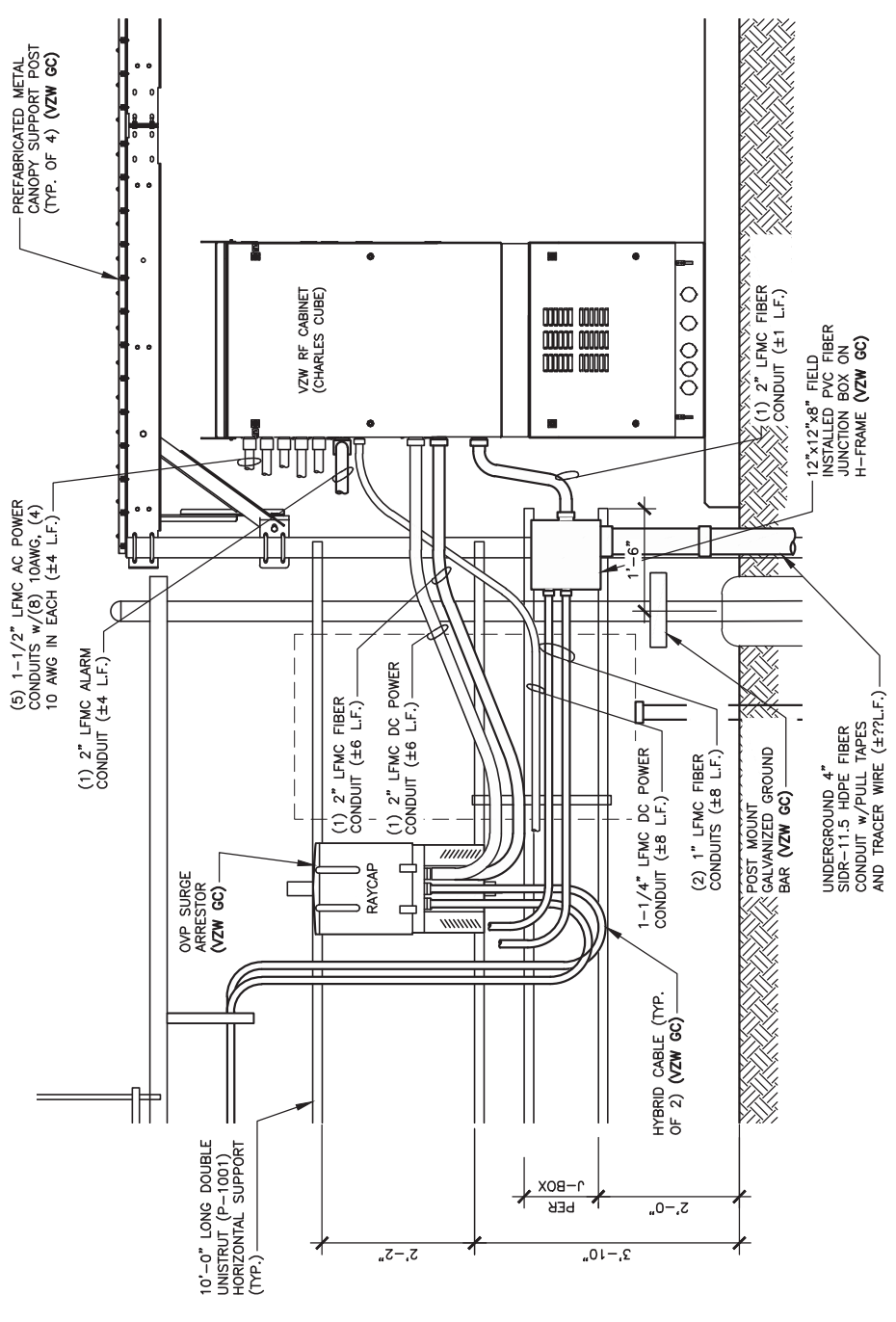
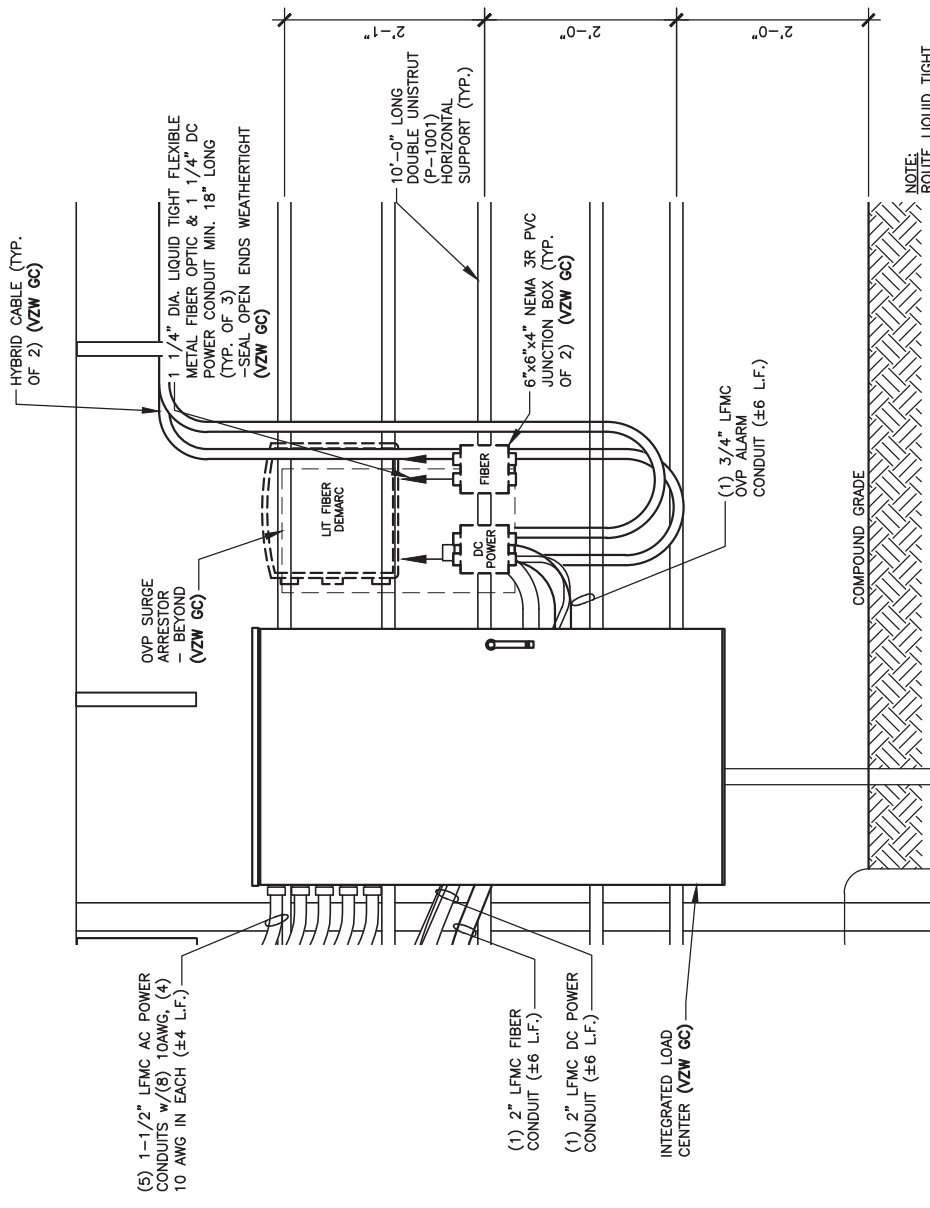
PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
**OVP & INTEGRATED LOAD CENTER H-FRAME ELEVATIONS AND DETAILS**

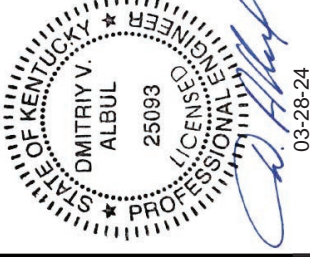
SHEET NUMBER:  
**E-4**

WK PRO & CAMPY REV. 3 FINAL 10/16/23



**OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT**  
SCALE: 3/8" = 1'-0"

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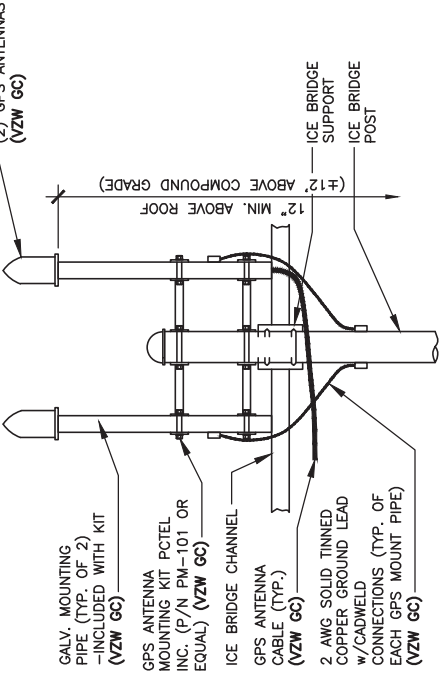
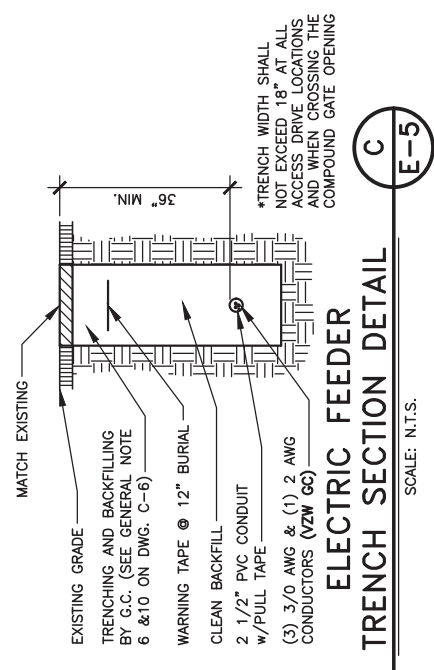
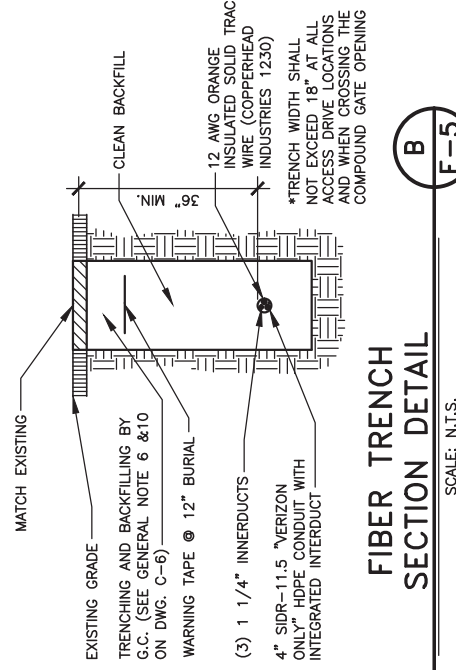
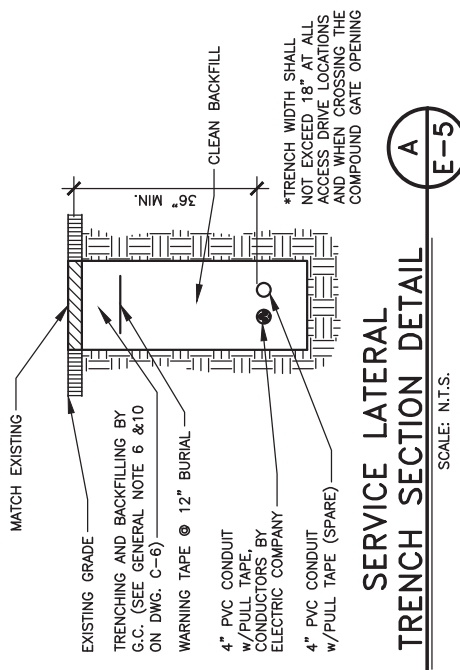
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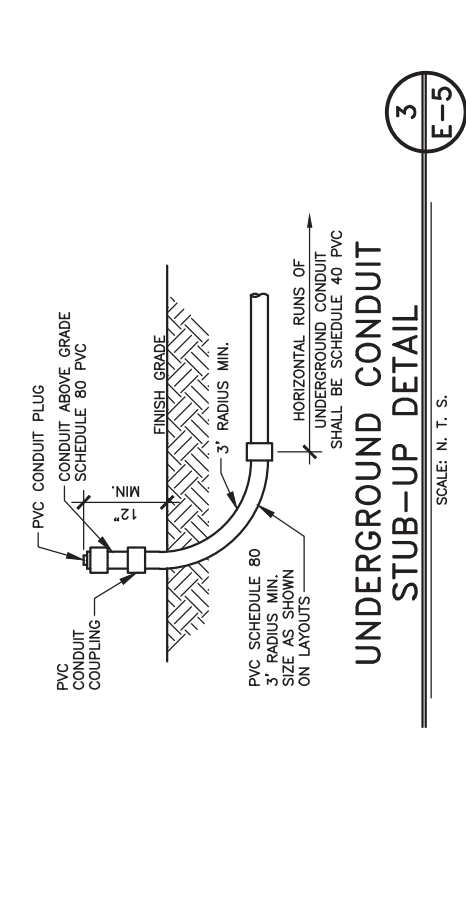
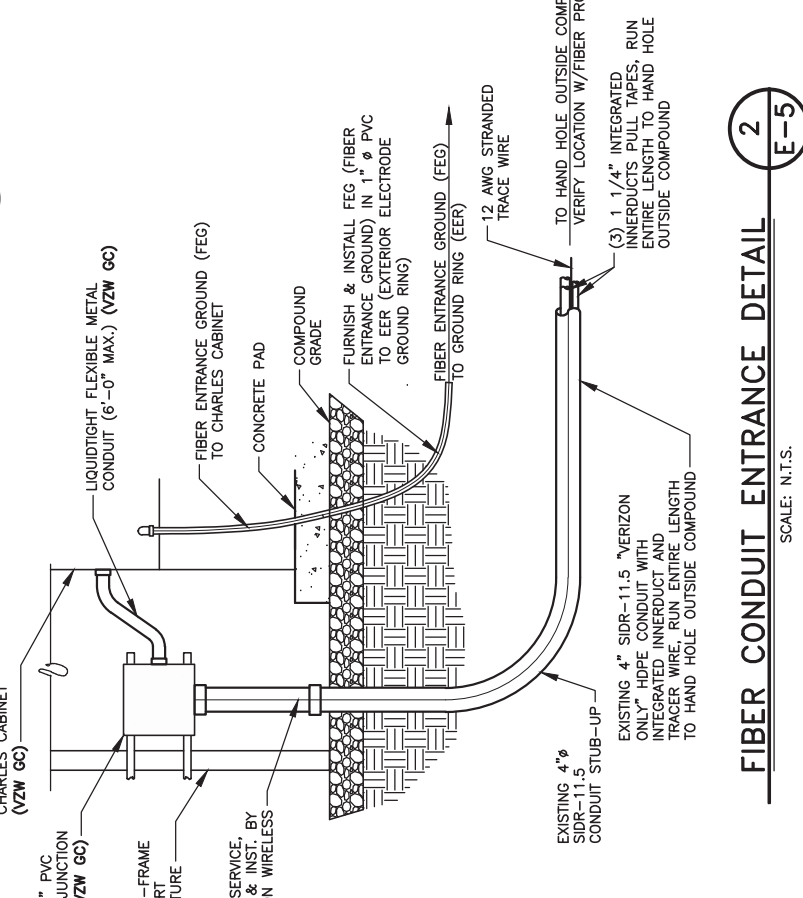
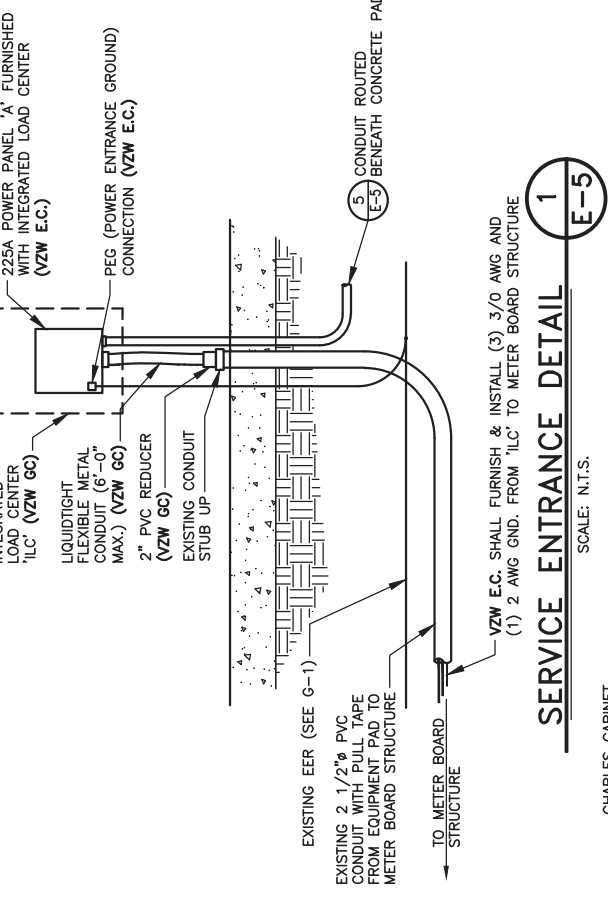
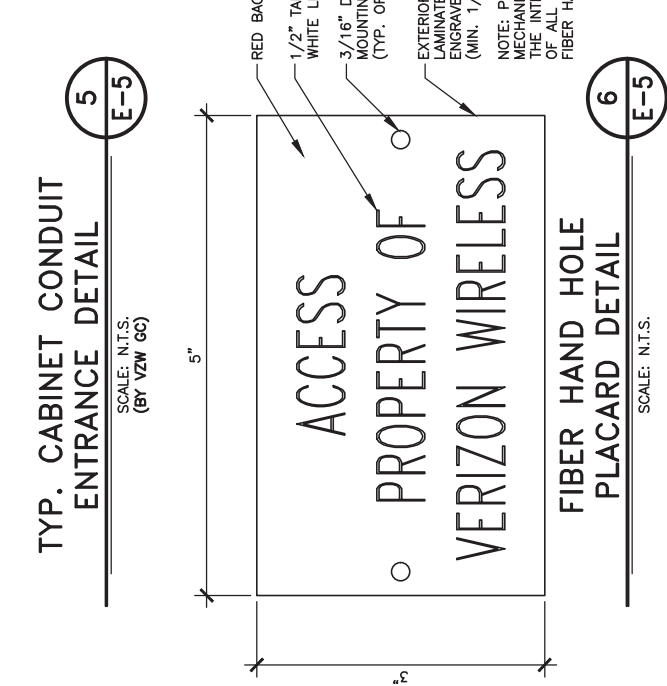
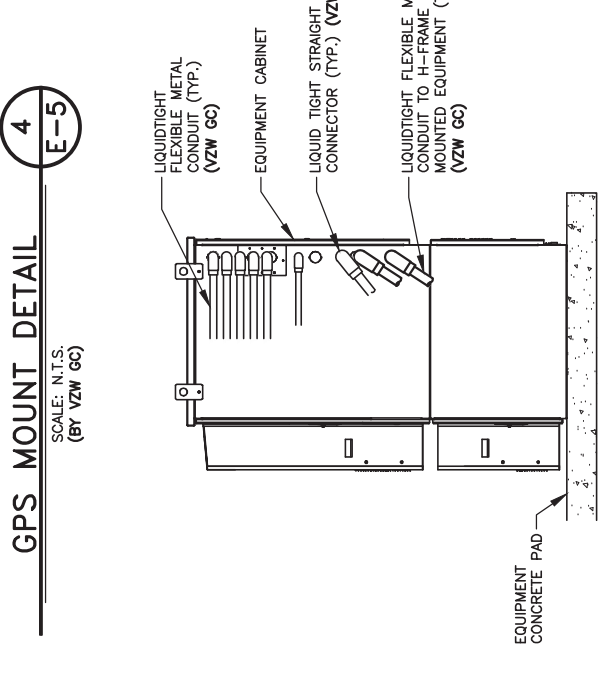
PID NUMBER:  
 16833259  
 DRAWN BY: RC  
 CHECKED BY: PL  
 DATE: 11.29.23

SHEET TITLE:  
**ELECTRICAL DETAILS**

SHEET NUMBER:  
**E-5**



**NOTE:**  
 GPS ANTENNA MUST BE INSTALLED IN SUCH A MANNER AS TO PROVIDE A 360° CLEAR VIEW OF THE SKY AT ITS LOWEST MOUNTING POINT





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METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:

EQUIPMENT CABINET ELEVATIONS

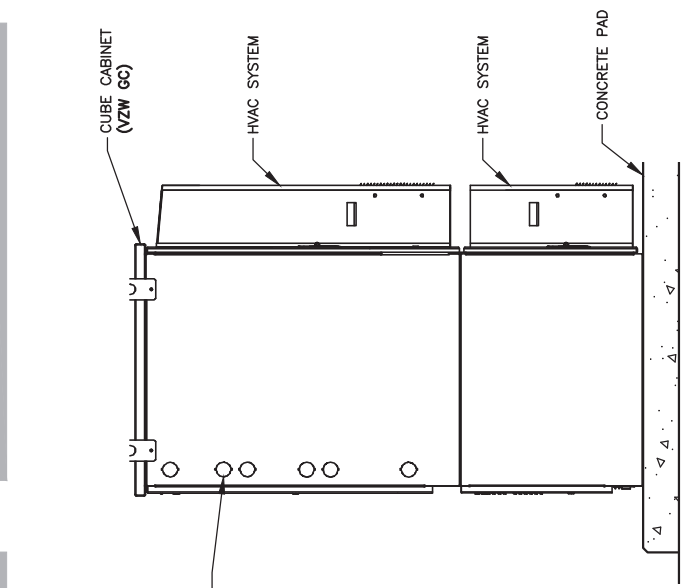
SHEET NUMBER:

E-6

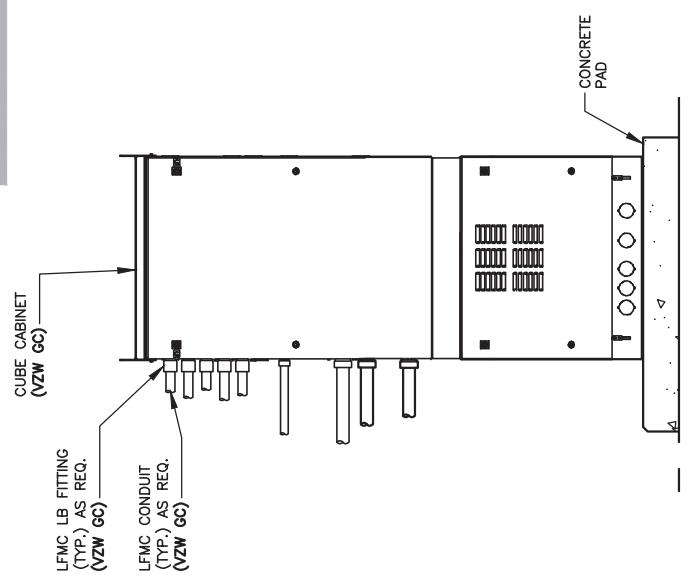
MK PRO & CAMPY REV. 3 FINAL 10/16/23

NOTE:  
VERIFY INTERIOR EQUIPMENT LOCATION PRIOR TO JUNCTION BOX FASTENER INSTALLATION. NO SHARP FASTENER EDGES PERMITTED WITHIN CHARLES CABINET

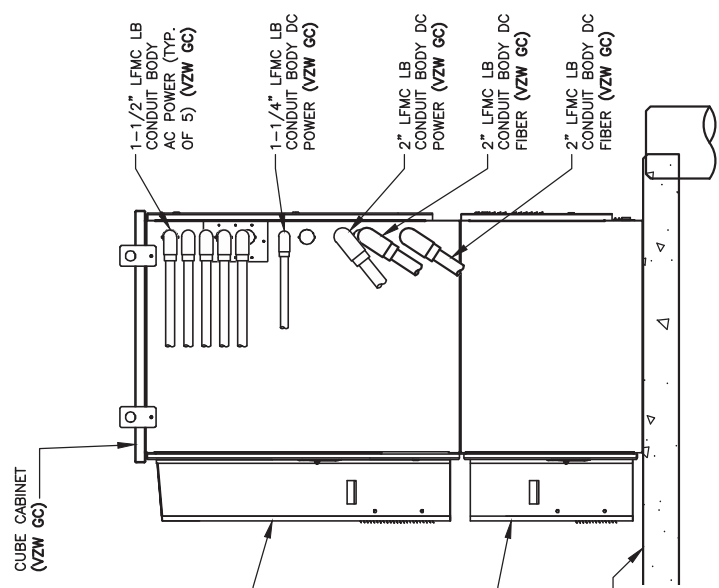
NOTE:  
FIBER OPTIC INNERDUCTS SHALL TERMINATE INSIDE CHARLES CABINET ONLY



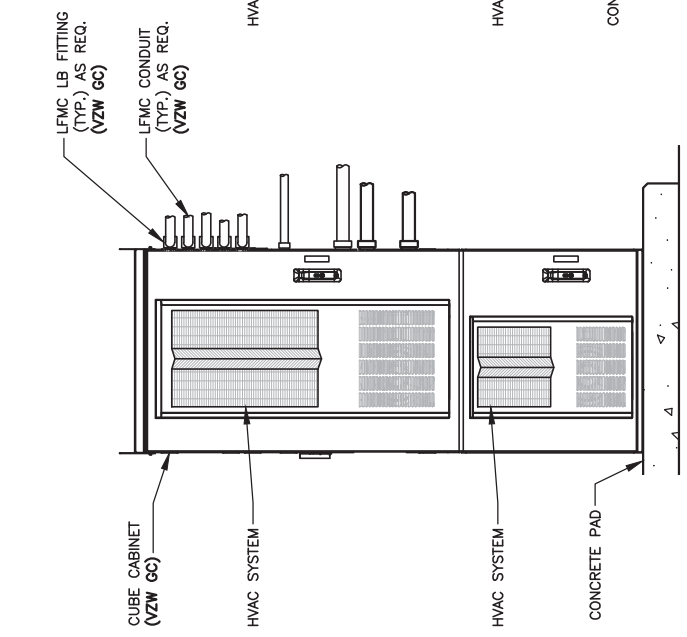
RF CABINET LEFT ELEVATION  
SCALE: N.T.S.  
4  
E-6



RF CABINET REAR ELEVATION  
SCALE: N.T.S.  
3  
E-6



RF CABINET RIGHT ELEVATION  
SCALE: N.T.S.  
2  
E-6



RF CABINET FRONT ELEVATION  
SCALE: N.T.S.  
1  
E-6

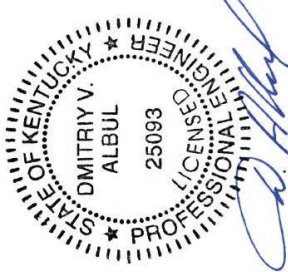


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03-28-24

SITE INFORMATION:

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:

723518

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CK WILLOW SHADE WEST

PID NUMBER: 16833259

DRAWN BY: RC

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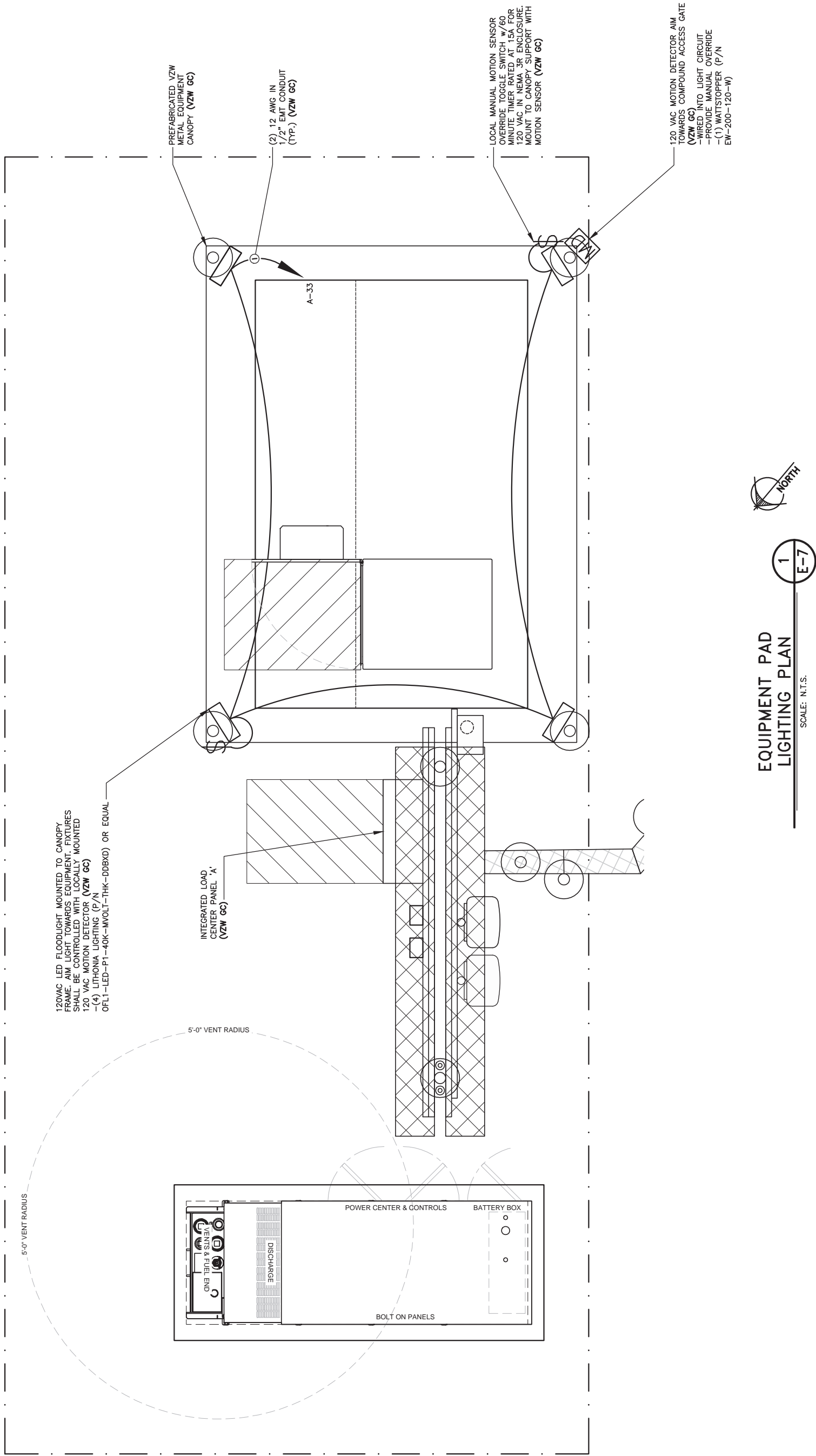
SHEET TITLE:

**EQUIPMENT PAD LIGHTING PLAN**

SHEET NUMBER:

**E-7**

WK PAD & CANOPY REV. 3 FINAL 10/16/23





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SITE NUMBER:  
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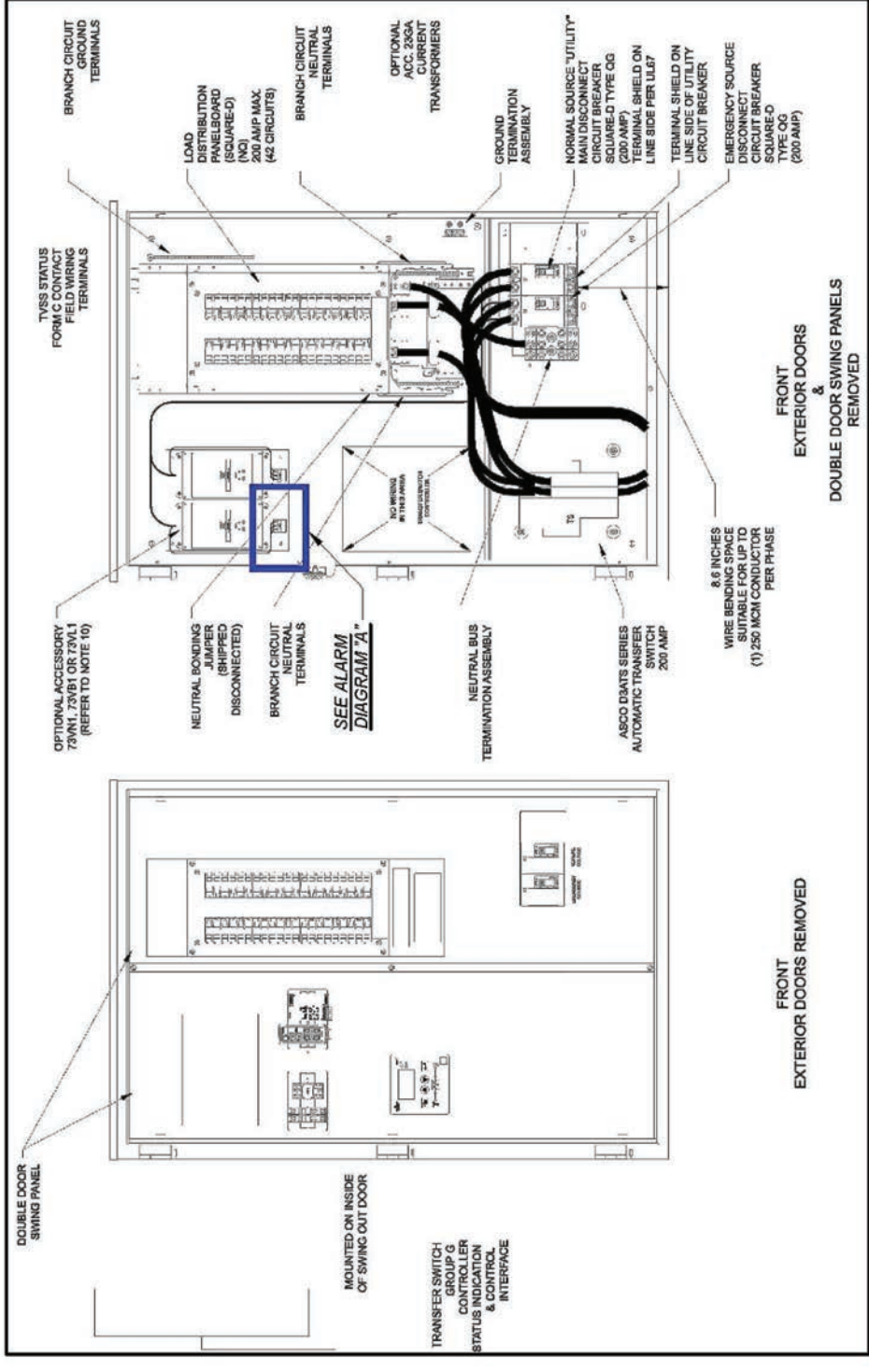
SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER: 16933259  
DRAWN BY: RC  
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DATE: 11.29.23

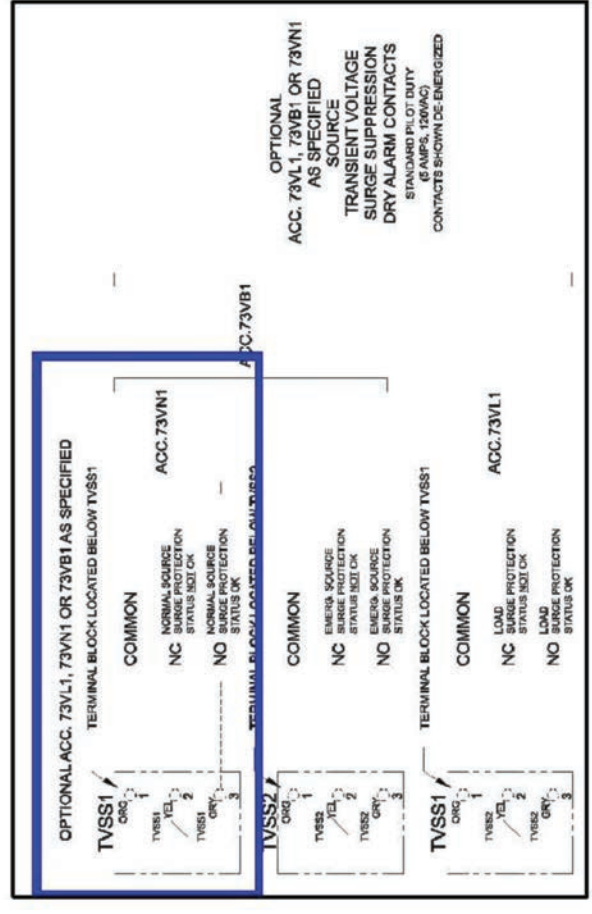
SHEET TITLE:  
**ALARMING TABLE AND DETAILS (REFERENCE ONLY)**

SHEET NUMBER:  
**E-8**

WK PRO & CAMRY REV. 3 FINAL 10/16/23



**INTEGRATED LOAD CENTER DETAIL**  
SCALE: N.T.S.



NOTE:  
1. VERIZON WIRELESS STANDARD  
ALARM CONTACT NORMALLY CLOSED

**ALARM DIAGRAM "A"**  
SCALE: N.T.S.

Alarm block pos	Alarm wiring table		Alarm		Wire Color		Misc Wiring - left side of panel		Alarm	Conn/Pos
	RMX - 4000 Wiring	Install on right side of panel when facing front of panel	Alarm	RMX-4000	Wire Color	Wire Color	Wire Color	Wire Color		
1	White/Orange	Door Intrusion	Door Intrusion	1-4	White or Blue	Orange	Orange	Intrusion Alarm		
2	Orange	Commercial Power Failure	Commercial Power Failure	1-4	White or Blue	N/A	N/A	N/A		
3	White/Green	Surge Suppressor Lightning Arrestor	Surge Suppressor Lightning Arrestor	1-4	White or Blue	N/A	N/A	N/A		
4	White/Blue	Rectifier Failure	Rectifier Failure	1-4	White or Blue	N/A	N/A	N/A		
5	Blue	Multiple Rectifier Failure	Multiple Rectifier Failure	1-4	White or Blue	Green/White	Red/Green	Rectifier Failure	J4 Pos 8	
6	White/Brown	Battery Discharge	Battery Discharge	5-8	Red or Blue	White/Red	White/Red	Multiple Rectifier Failure	J4 Pos 18	
7	Brown	Low Voltage	Low Voltage	5-8	Red or Blue	Red/White	Red/White	Battery Discharge	J4 Pos 9	
8	White/Orange	DC Power Failure	DC Power Failure	5-8	Red or Blue	White	White	Battery Discharge	J4 Pos 19	
9	Orange	Generator Running	Generator Running	9-12	Black or Blue	White/Black	Black	Low Voltage	J4 Pos 4	
10	White/Green	Generator Low Fuel	Generator Low Fuel	9-12	Black or Blue	Black/White	Blue/White	Low Voltage	J4 Pos 14	
11	Green	Generator Failure	Generator Failure	9-12	Black or Blue	Red/Black	Red/Black	Fuse	J4 Pos 5	
12	White/Blue	HVAC Failure	HVAC Failure	9-12	Black or Blue	N/A	N/A	High Voltage	J4 Pos 15	
13	Brown	High Temp	High Temp	13-16	Yellow or Blue	White/Blue	Blue	N/A	J4 Pos 6	
14	White/Orange	Low Temp	Low Temp	13-16	Yellow or Blue	Green	White/Green	Overheat Alarm	J4 Pos 20	
15	Green	Tower Light	Tower Light	13-16	Yellow or Blue	N/A	N/A	N/A		
16	White/Blue	Tower Light Side	Tower Light Side	13-16	Yellow or Blue	N/A	N/A	N/A		
17	White/Brown	RRH Upconverter Failure	RRH Upconverter Failure	17-20	Violet or Blue	N/A	N/A	RRH Upconverter Failure		
18	Brown	RRH Power Failure	RRH Power Failure	17-20	Violet or Blue	N/A	N/A	N/A		
19	White/Blue	RRH High Humidity	RRH High Humidity	17-20	Violet or Blue	N/A	N/A	N/A		
20	Blue	RRH Intrusion	RRH Intrusion	17-20	Violet or Blue	N/A	N/A	N/A		
21	White/Brown	Smoke Fire	Smoke Fire	21-24	Blue	N/A	N/A	N/A		
22	Brown	Bus Bar Theft	Bus Bar Theft	21-24	Blue	N/A	N/A	N/A		
23	White/Orange	N/A	N/A	21-24	Blue	N/A	N/A	N/A		
24	Orange	N/A	N/A	21-24	Blue	N/A	N/A	N/A		
25	White/Blue	Microwave Critical	Microwave Critical	25-28	Orange or Blue	N/A	N/A	N/A		
26	Blue	Microwave Major	Microwave Major	25-28	Orange or Blue	N/A	N/A	N/A		
27	White/Brown	Dehydrator Alarm	Dehydrator Alarm	25-28	Orange or Blue	N/A	N/A	N/A		
28	Brown	Fire Suppression Discharge	Fire Suppression Discharge	25-28	Orange or Blue	N/A	N/A	N/A		
29	White/Orange	Fire Suppression Trouble	Fire Suppression Trouble	29-32	Green or Blue	N/A	N/A	N/A		
30	Orange	Secondary HVAC Running	Secondary HVAC Running	29-32	Green or Blue	N/A	N/A	N/A		
31	White/Green	Explosive gas	Explosive gas	29-32	Green or Blue	N/A	N/A	N/A		
32	Green	High Humidity	High Humidity	29-32	Green or Blue	N/A	N/A	N/A		
33	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
34	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
35	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
36	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
37	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
38	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
39	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
40	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
41	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
42	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
43	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
44	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
45	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
46	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
47	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
48	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
49	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
50	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
51	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
52	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
53	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
54	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
55	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
56	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
57	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
58	Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
59	White/Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
60	Orange	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
61	White/Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
62	Green	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
63	White/Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
64	Blue	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
65-84	White/Brown	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

**ALARM WIRING TABLE**  
SCALE: N.T.S.

1  
E-8



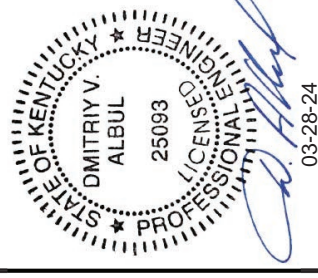


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6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
**723518**

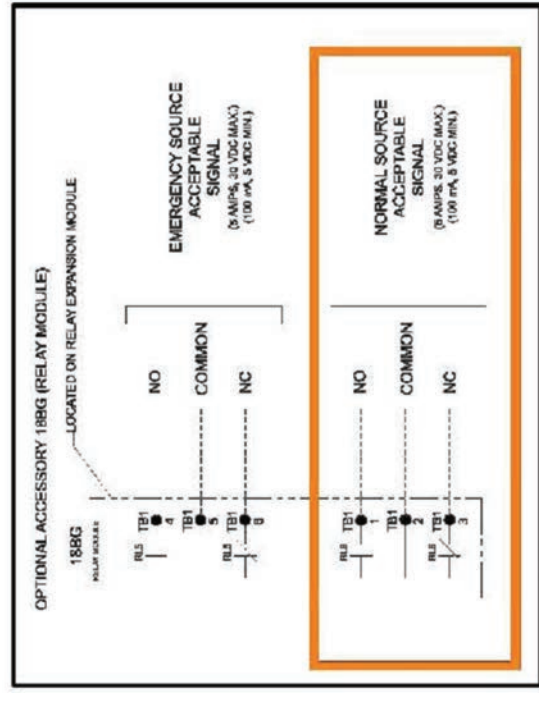
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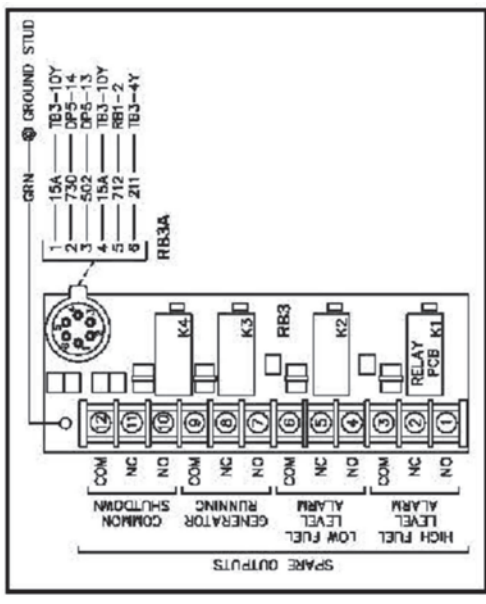
SHEET TITLE:  
**ALARMING DIAGRAMS AND DETAILS (REFERENCE ONLY)**

SHEET NUMBER:  
**E-9**

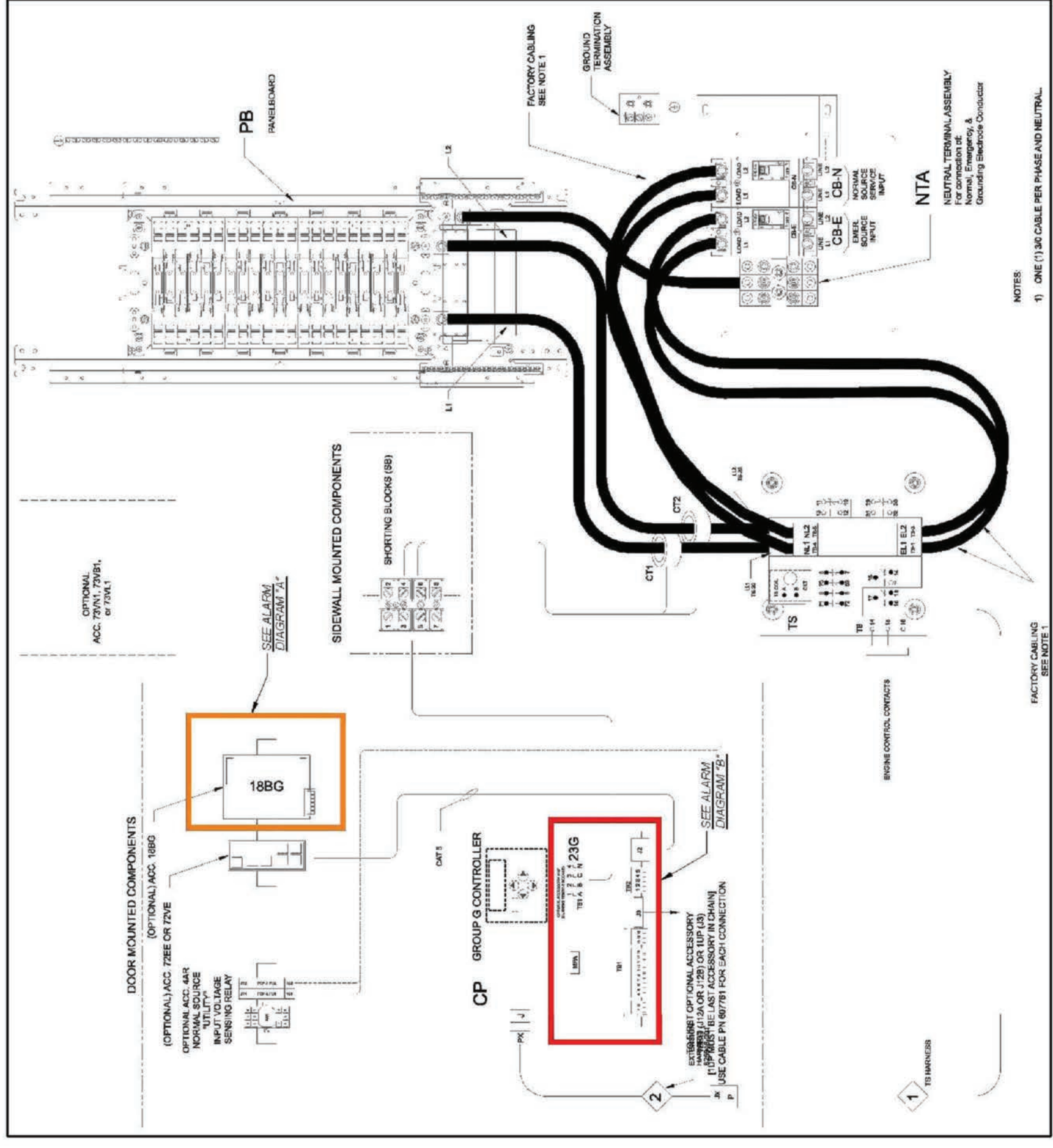
WK PROJ & CAMPT REV. 3 FINAL 10/16/23



NOTE:  
1. VERIZON WIRELESS STANDARD ALARM CONTACT NORMALLY CLOSED



NOTES:  
1. FUEL LEVEL ALARMING IS FOR DIESEL FUEL ONLY GENERATORS  
2. VERIZON WIRELESS STANDARD ALARM CONTACT NORMALLY CLOSED



1  
**E-9**

SCALE: N.T.S.

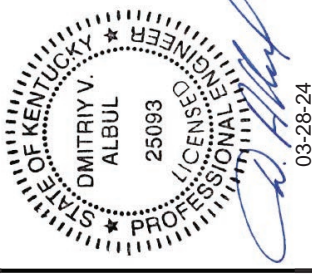


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SHEET TITLE:  
**ALARM AND FIBER CABLE ROUTING (REFERENCE ONLY)**

SHEET NUMBER:  
**E-10**

WK PROJ & COMPANY REV. 3 FINAL 10/16/23

**Alarm wiring for Cabinet**

Remove old alarm block and install new panel DRP4722SW

Route wiring from RMX4000 to alarm panel. Wiring will be various colors or all blue as shown

If connector is connected to old alarm block, remove connector and wire to alarm panel

Note: See wiring table on next page

**Place alarm block label template on door**

**Jumper Office Alarm cable wires. Connector J4 position 16 (Blue/Red) and position 10 (Black/red)**

**ALARM WIRING CONNECTIONS** 2  
E-10

SCALE: N.T.S.

**Scope and test fibers.**  
Install fibers

Label each end of fibers per label template. Labels should be the same on each end of fiber. Labels should be installed 3-4 inches from end of fiber.

Route fibers out the backside of fiber tray. Separate fibers into Alpha, Beta, and Gamma. Route fibers out of fiber tray as shown.

Route fibers UNDER the 6630/6648 Shelf #1 to front side of the cabinet

Note: Only install/label Module #4 if fibers are provided.

Note: Only install Aqua fibers if instructed by a supervisor. Otherwise ship loose

**Label Template**

Updated template		Label Template	
4449 ALPHA	4449 BETA	4449 ALPHA	4449 BETA
6449 ALPHA LINK 1	6449 ALPHA LINK 2	6449 BETA LINK 1	6449 BETA LINK 2
4408 ALPHA	4408 BETA	6449 GAMMA LINK 1	6449 GAMMA LINK 2
		4408 GAMMA	

Gamma fibers  
Beta fibers  
Alpha fibers

Aqua Fibers if installed-label each end the same  
Fiber 1  
Fiber 2  
Fiber 3

**FIBER ROUTING DETAIL** 1  
E-10

SCALE: N.T.S.



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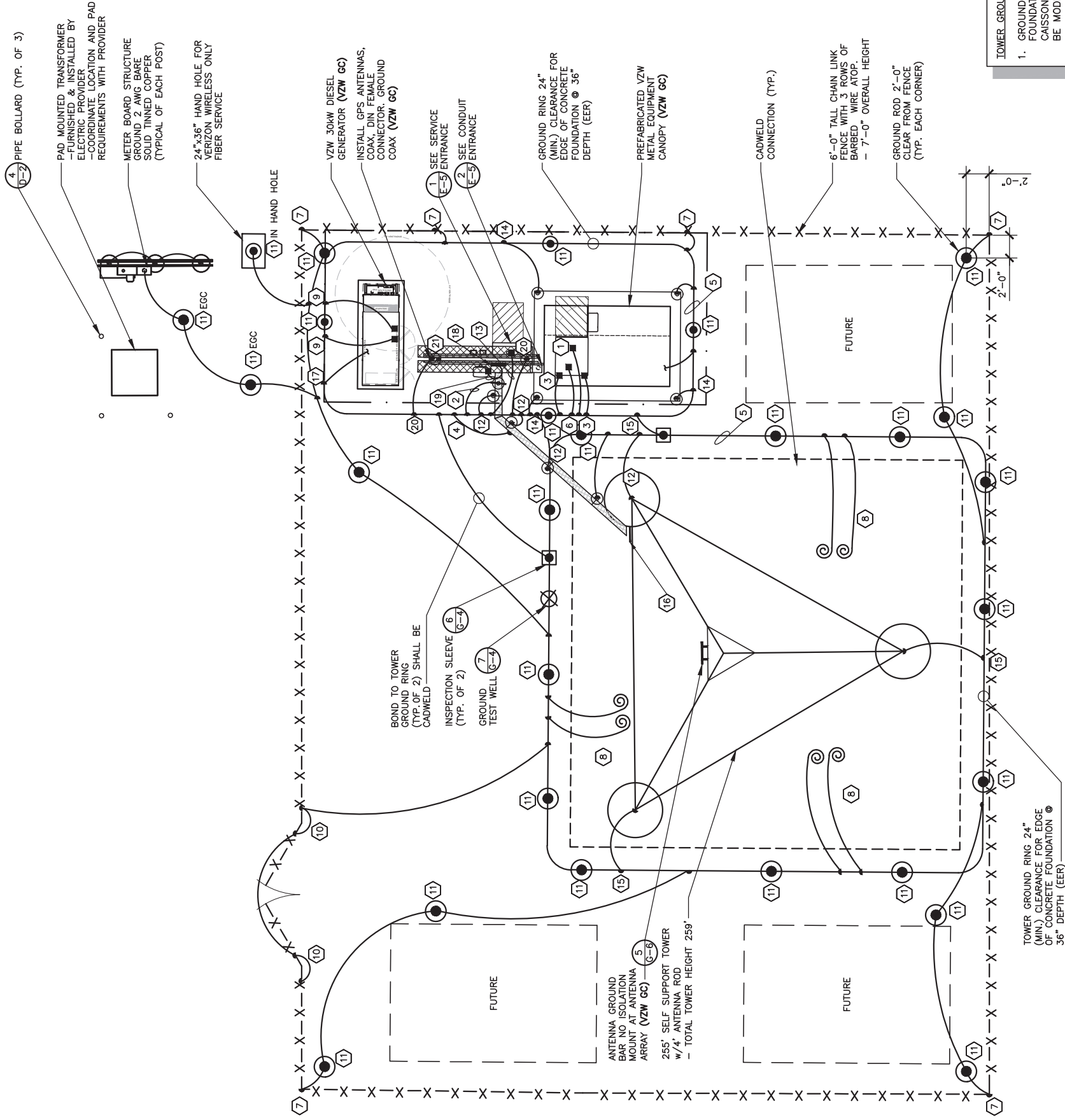
SHEET TITLE:

GROUNDING SITE PLAN

SHEET NUMBER:

G-1

WK PRO & CANOPY REV. 3 FINAL 10/16/23



**TOWER GROUND RING NOTES:**

- GROUNDING PLAN SHOWN IS FOR A PAD AND PIER TOWER FOUNDATION. IF THE TOWER OWNER ELECTS TO INSTALL A CAISSON FOUNDATION THE TOWER GROUND RING (EER) WILL BE MODIFIED. THE TOWER GROUND RING (EER) SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS. 24" MIN. CLEARANCE FROM THE TOWER FOUNDATIONS AT 36" MIN. BELOW GRADE.
- ALL GROUND RODS SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS.
- ALL GROUND LEADS DEPICTED ON THIS PLAN SHALL BE MODIFIED TO CONNECT TO THE MODIFIED TOWER GROUND RING (EER) LOCATION.



**GROUNDING SITE PLAN**

SCALE: N.T.S.

NOTES:  
 1. ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.  
 2. COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.  
 3. SEE SHEET G-2 FOR GROUNDING KEYED NOTES.

## TOWER OWNER GROUNDING KEYED NOTES

- ① **BBG:** FURN. & INST. 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE FOR BATTERY BAY GROUND (BBG) TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ② **CEPSG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSG POST TO (EER). CONNECTION (EER) SHALL BE CADWELD.
- ③ **CG:** FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CABINET GROUND (CG) TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ④ **CSG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR ICE BRIDGE CHANNEL TO (EER). CONNECTION (EER) SHALL BE CADWELD.
- ⑤ **EER:** FURN. & INST. 2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) AROUND RADIO EQUIPMENT PAD AND TOWER BURIED AT 36" OR 6" BELOW FROST LINE (WHICHEVER IS GREATER), MAINTAIN 24" FROM EQUIPMENT PAD AND TOWER FOUNDATIONS MINIMUM.
- ⑥ **FEG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR FIBER ENTRANCE GROUND (FEG) TO (TGE). COIL UP 10" ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑦ **FG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM NEW FENCING TO GROUND RING (EER). CONNECTION TO FENCING SHALL BE AT THE BASE OF FENCE POST USING CADWELD AND WEAVE GND. WIRE THRU FABRIC AND ATTACH TO TOP RAIL WITH CADWELD. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑧ **FTWGL:** FURN. & INST. FUTURE TOWER WAVEGUIDE GROUND BAR LEADS. CONTRACTOR SHALL COIL UP TEN (10') OF 2 AWG SOLID TINNED COPPER GROUND (TYP.)
- ⑨ **GEG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE GENERATOR ENCLOSURE TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. \*GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY
- ⑩ **GG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE AT EACH GATE POST AND PROVIDE GROUND WIRE TO BONDING JUMPER FROM GATE POST TO FENCE POST.
- ⑪ **GRE:** FURN. & INST. GROUND RODS TO 36" BELOW FINISH GRADE (OR 6" BELOW FROST LINE, WHICHEVER IS GREATER) AT A MINIMUM SPACING OF 10'-0" AT RADIO EQUIPMENT PAD, TOWER AND SITE EXTERIOR GROUND SYSTEM. CONNECTION TO (EER) SHALL BE CADWELD. REFER TO DETAIL 5 ON SHEET G-4.
- ⑫ **IBSG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-1 FOR ICE BRIDGE POST LOCATIONS.
- ⑬ **PEG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'ILC' GROUND BAR TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- ⑭ **PCSG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR EACH PAD CANOPY SUPPORT BASE TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
- ⑮ **TBG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM TOWER LEG BASE PLATE TO (EER). CONNECTION TO TOWER LEG BASE PLATE SHALL BE CADWELD OR MECHANICAL TO LEG AND (EER) SHALL BE CADWELD.
- ⑯ **TWZ:** BY VZW E.C.
- ⑰ **UG:** FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE (UFER GROUND) FOR PAD FOUNDATION REINFORCEMENT STEEL CONNECTION TO (EER) SHALL BE CADWELD. PROVIDE HEAT SHRINK TUBING OR ELECTRICAL TAPE PROTECTION FOR CONDUCTOR AT TRANSITION BETWEEN CONCRETE AND SOIL.
- ⑱ **OGA:** BY VZW E.C.
- ⑲ **OGL:** BY VZW E.C.
- ⑳ **OHG:** FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). (TYP. OF 2 POSTS). CONNECTION (EER) SHALL BE CADWELD.
- ㉑ **GFSG:** BY VZW E.C.

## TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE TOWER OWNER E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE TOWER OWNER E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE TOWER OWNER E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O).
4. UPON COMPLETION OF THE EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUND RING, THE TOWER OWNER E.C. SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE TOWER OWNER E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE TOWER OWNER E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE TOWER OWNER E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE TOWER OWNER E.C. SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE TOWER OWNER E.C. SHALL NOTIFY VERIZON WIRELESS CONSTRUCTION MANAGER AND TOWER OWNER CONSTRUCTION MANAGER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
5. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
6. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
7. ALL EQUIPMENT PAD AND EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.
8. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
9. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
10. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT. PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
ECC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FUTURE TOWER WAVEGUIDE GROUND LEAD
FTWGL	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GFSG	GPS ANTENNA MOUNT GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWZ	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
☉	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL
⊠	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION



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A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:  
03-28-24

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:

GROUNDING NOTES

SHEET NUMBER:

G-2

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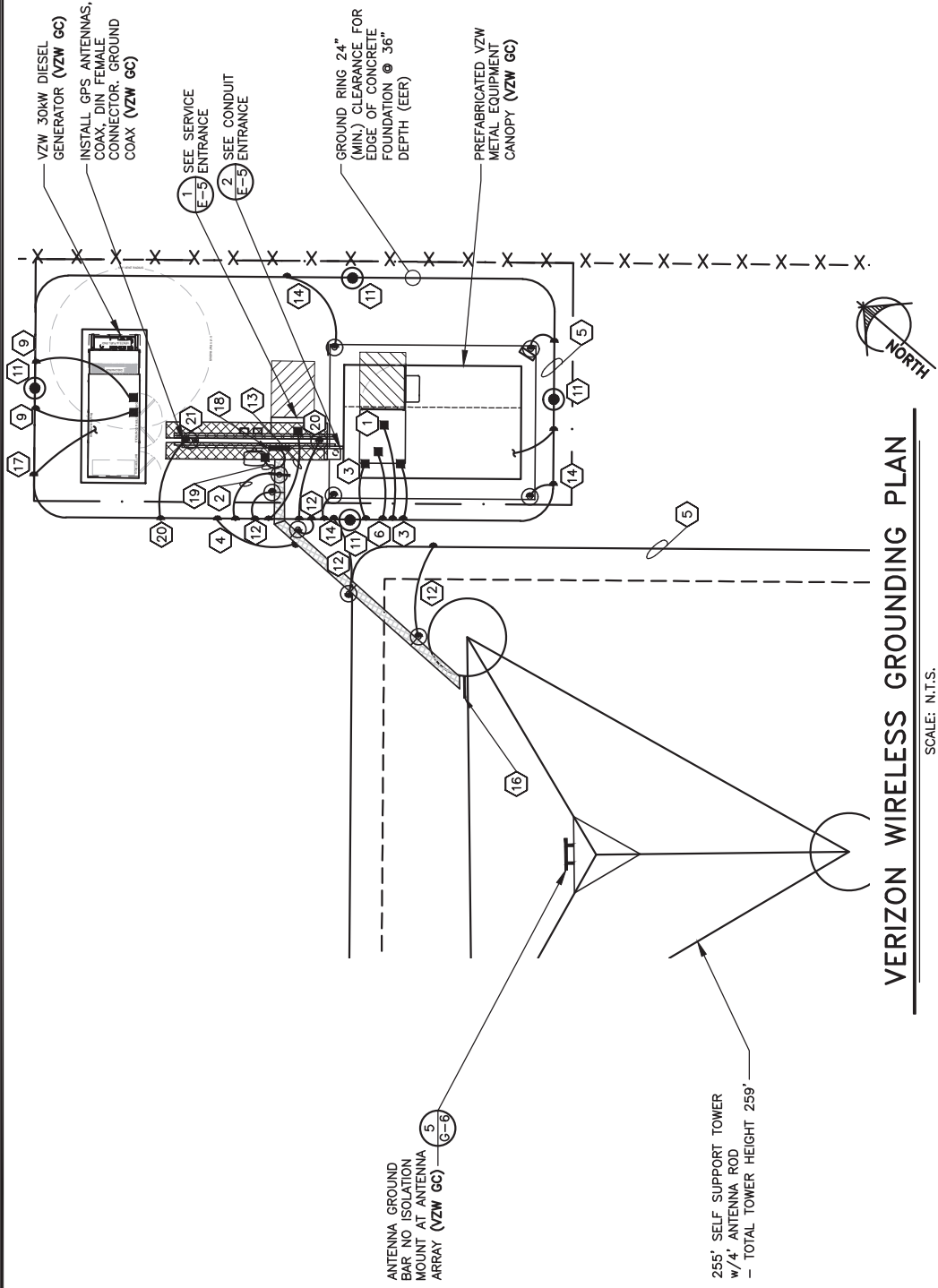
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DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
**VERIZON WIRELESS GROUNDING PLAN AND NOTES**

SHEET NUMBER:  
**G-3**

WK PRO & CAMPY REV. 3 FINAL 10/16/23



**VERIZON WIRELESS GROUNDING PLAN**  
SCALE: N.T.S.

**VERIZON WIRELESS GROUNDING KEYED NOTES**

- 1 BBG: VZW E.C. SHALL CONNECT THE 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE COILED UP BY THE TOWER OWNER E.C. FOR THE BATTERY BAY GROUND (BBG). CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
- 2 CEPSG: VZW E.C. SHALL FURNISH & INSTALL THE THEFT DETERRENT GROUND POST ASSEMBLY PART #TDSGAPC14 FOR THE COAX ENTRY PROTECTION SYSTEM (AS MFG'D. BY ERICO GROUNDING AND SUPPLIED BY VZW E.C.) TO THE POST. CONNECT THE 2 AWG BARE SOLID TINNED COPPER COILED UP BY TOWER OWNER E.C. TO THE POST. THE CONNECTION TO POST SHALL BE CADWELDED. REFER TO THE GENERAL INSTALLATION GUIDE AS SUPPLIED WITH THEFT DETERRENT POST MOUNT GROUND ASSEMBLY. SEE DETAIL 1 ON SHEET G-5 FOR DETAILS.
- 3 CG: VZW E.C. SHALL FURNISH & INSTALL TWO HOLE LONG BARREL LUGS ON EXISTING 2 AWG BARE TINNED COPPER LEADS. VZW E.C. SHALL FURNISH & INSTALL DRAGON TOOTH WASHERS AND #8 STAINLESS STEEL FASTENERS ON ALL EQUIPMENT CABINET EXTERIOR GROUND LOCATIONS (TYP. 2 PER CABINET). REMOVE ALL SURFACE PAINT AND USE ANTIOXIDANT COMPOUND BETWEEN METAL AND WASHER. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. DETAIL 3 ON SHEET G-5 FOR DETAILS.
- 4 CSG: BY TOWER OWNER E.C.
- 5 EER: BY TOWER OWNER E.C.
- 6 FEG: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR (FIBER ENTRANCE GROUND) INTO THE POWER PLANT CABINET AND MAKE A MECHANICAL CONNECTION TO THE FIBER SERVICE GROUND. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
- 7 FG: BY TOWER OWNER E.C.
- 8 FTWGL: BY TOWER OWNER E.C.
- 9 GEG: VZW E.C. SHALL CONNECT THE 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR THE GENERATOR ENCLOSURE. CONNECTION TO GENERATOR ENCLOSURE SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. \*GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY.
- 10 GG: BY TOWER OWNER E.C.
- 11 GRE: BY TOWER OWNER E.C.
- 12 IBSS: BY TOWER OWNER E.C.
- 13 PEG: VZW E.C. SHALL CONNECT 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR THE POWER ENTRANCE GROUND (PEG) COILED UP BY TOWER OWNER E.C. CONNECTION OF THE COILED WIRE TO THE INTEGRATED LOAD CENTER GROUND BAR SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
- 14 PCSG: VZW E.C. SHALL CONNECT SOLID TINNED COPPER ONE HOLE GROUND TAB TO COILED UP GROUND WIRE BY TOWER OWNER E.C. WITH AN EXOTHERMIC CONNECTION. THE CONNECTION OF THE COILED GROUND WIRE AND LUG TO THE CANOPY SUPPORT BASE SHALL BE MECHANICAL. SEE DETAIL 3 ON SHEET G-5. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
- 15 TBG: BY TOWER OWNER E.C.
- 16 TWG: VZW E.C. SHALL FURN. & INST. THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAPC14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).
- 17 UG: BY TOWER OWNER E.C.
- 18 OGA: VZW E.C. SHALL FURN. & INST. THE THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGAPC14 FOR THE OVP GROUND (OGL) DIRECTLY TO THE OVP H-FRAME POST. SEE DETAIL 4 ON SHEET G-5.
- 19 OGL: VZW E.C. SHALL FURN. & INST. 1 - 6 AWG GREEN INSULATED STRANDED COPPER GND. WIRE FROM OVP GROUND POINT TO OVP GROUND ASSEMBLY (OGA). CONNECTION TO GROUND BAR SHALL BE MECHANICAL.
- 20 OHG: BY TOWER OWNER E.C.
- 21 GPSSG: VZW E.C. SHALL FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR GPS ANTENNA MOUNT PIPE TO H-FRAME SUPPORT POST (TYP. OF 2). CONNECTION TO PIPE AND POST SHALL BE CADWELDED.

**LEGEND**

BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
EGC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GG	GROUNDING ELECTRODE GROUND
GGC	GENERATOR ENCLOSURE GROUND
GGC	GENERATOR ENCLOSURE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GPS	GPS ANTENNA MOUNT GROUND
GRE	GROUND ROD ELECTRODE
IBSS	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER WAVEGUIDE GROUND ASSEMBLY
TWG	TOWER WAVEGUIDE GROUND
UG	UFER GROUND (PIER FOUNDATION)
UG	CABLE TO CABLE CADWELDED CONNECTION
	CABLE TO GND. ROD CADWELDED CONNECTION
	TEST WELL
	INSPECTION PORT CABLE TO CABLE CADWELDED CONNECTION

**VERIZON WIRELESS GROUNDING NOTES**

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE VZW E.C. AND GENERAL CONTRACTOR E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET) @ 0.0012" MIN. GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE VZW E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. THE GENERAL CONTRACTOR E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE TOWER (EER), FUTURE TOWER WAVEGUIDE GROUND LEADS (FTWGL), GATE GROUND (GG), FENCE (FG), TOWER BASE GROUND (TBG) AND TOWER WAVEGUIDE GROUND (TWG).
4. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
5. ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITER ("OXY-GREASE") OR APPROVED EQUAL.
6. UPON COMPLETION OF THE TOWER GROUNDING RING, THE GENERAL CONTRACTOR E.C. SHALL MEGGER TEST THE COMPOUND GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE GENERAL CONTRACTOR E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE GENERAL CONTRACTOR E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE GENERAL CONTRACTOR E.C. SHALL NOTIFY TOWER OWNER 48 HOURS PRIOR TO BACKFILLING TRENCHES; POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
7. UPON COMPLETION OF THE RADIO EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUNDING RING, THE VZW E.C. SHALL MEGGER TEST THE EQUIPMENT PAD GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE VZW E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE VZW E.C. SHALL SUBMIT PRICING TO VERIZON WIRELESS FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM VERIZON WIRELESS, THE VZW E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE VZW E.C. SHALL BOND THE RADIO EQUIPMENT PAD GROUND RING TO THE TOWER GROUND RING. THE VZW E.C. SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES; POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
8. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
9. GROUND ASSEMBLIES SHALL BE THEFT DETERRENT DESIGN AS MANUFACTURED BY ERICO INC. AND FURNISHED BY VERIZON WIRELESS. PROVIDE TWO (2) LUG HOLES PER VERIZON WIRELESS STANDARDS. UNLESS NOTED OTHERWISE.
10. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
11. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
12. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINIUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
13. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
14. ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.



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SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
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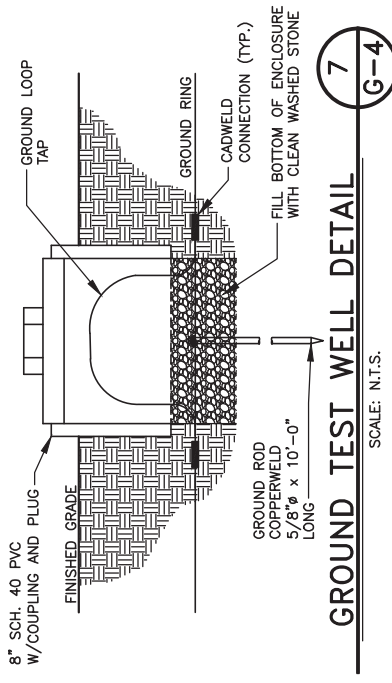
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16833259

DRAWN BY: RC  
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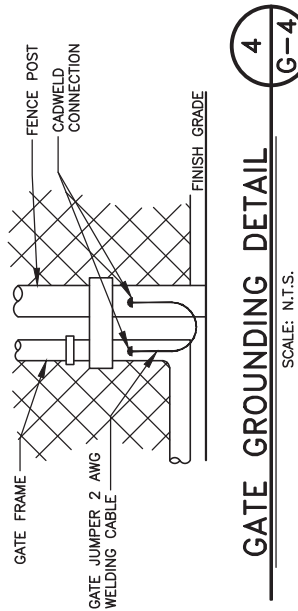
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**GROUNDING DETAILS**

SHEET NUMBER:  
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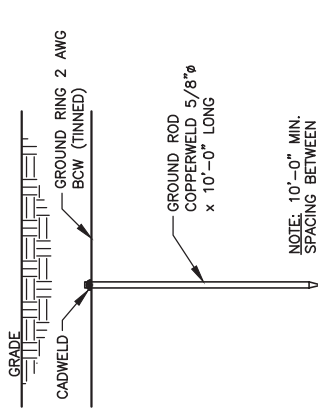
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**GROUND TEST WELL DETAIL**  
SCALE: N.T.S.

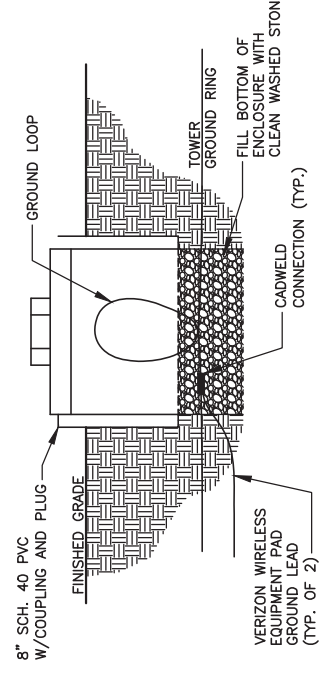


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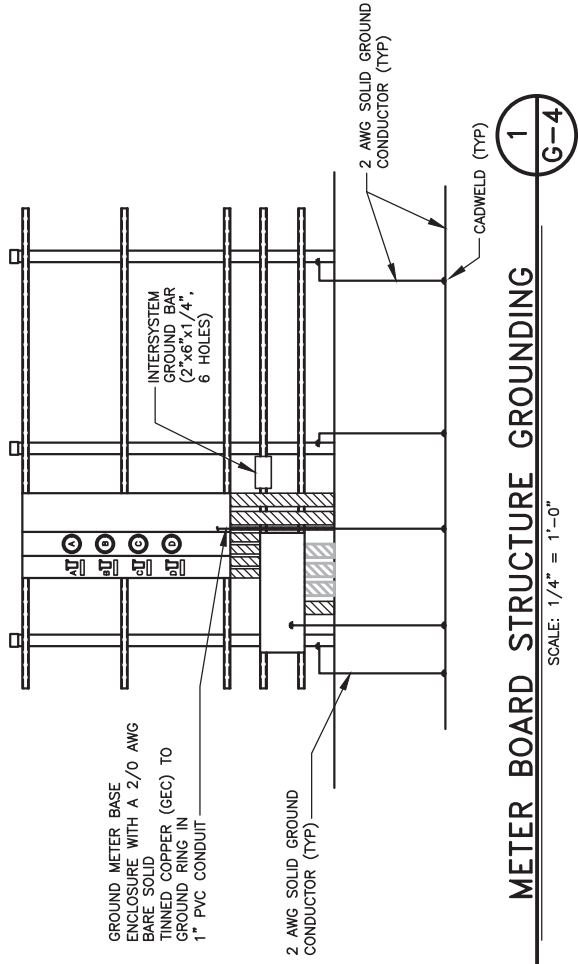


**GROUND ROD DETAIL**  
SCALE: N.T.S.

(TYP. FOR CONTRACTOR AND VZW GC)



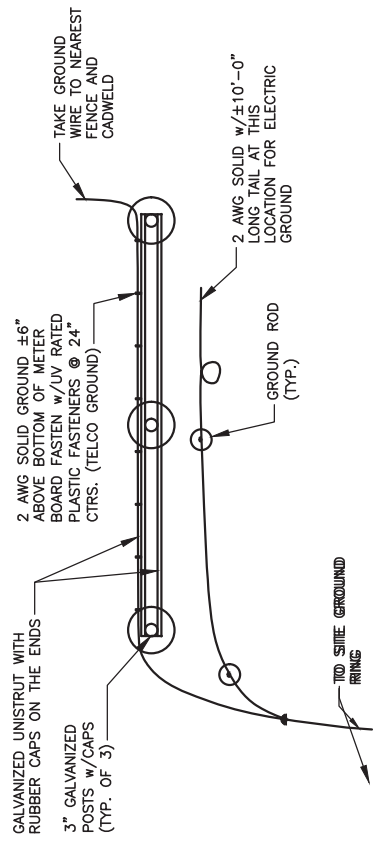
**INSPECTION SLEEVE DETAIL**  
SCALE: N.T.S.



**1**  
**G-4**

**METER BOARD STRUCTURE GROUNDING**

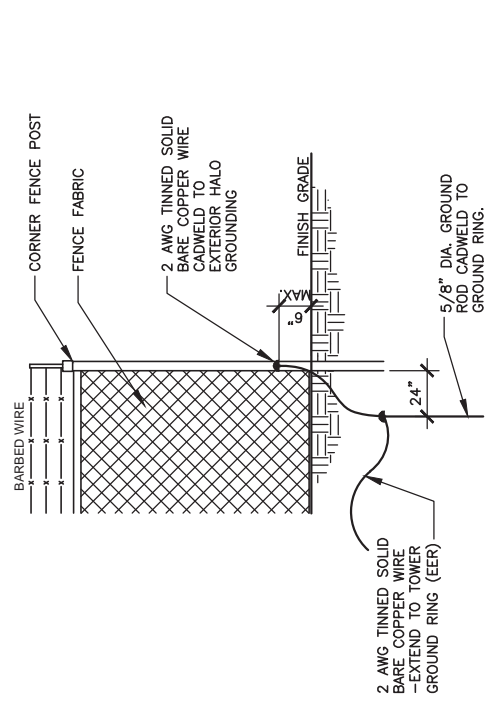
SCALE: 1/4" = 1'-0"



**2**  
**G-4**

**METER BOARD STRUCTURE GROUND PLAN**

SCALE: N.T.S.



**3**  
**G-4**

**FENCE GROUNDING DETAIL**

SCALE: N.T.S.



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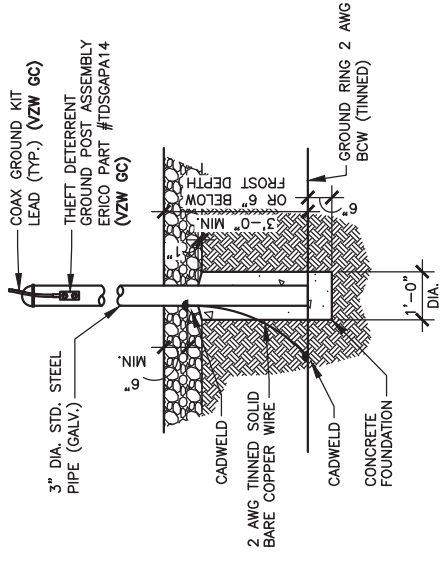
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**GROUNDING DETAILS**

SHEET NUMBER:

**G-5**

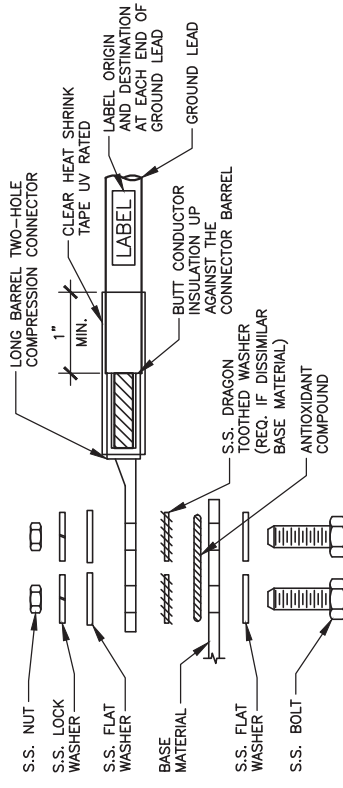
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**THEFT DETERRENT POST MOUNT  
GROUND DETAIL (CEPSG)**

SCALE: N.T.S.  
(BY VZW GC)

1  
G-5

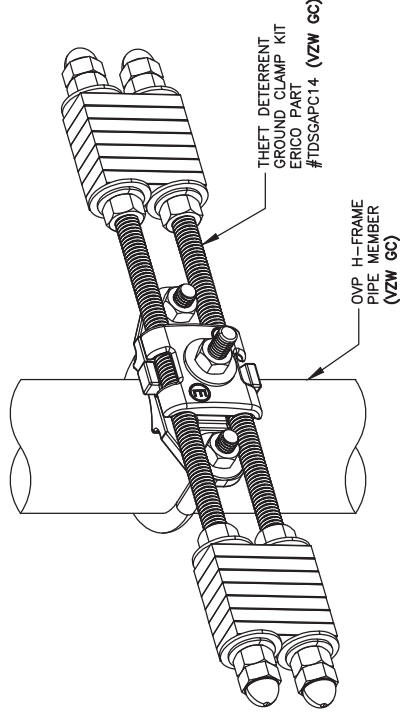


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE.
4. WHEN BONDED TO A GROUND BAR OR STEEL OBJECT, DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
5. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AN ABRASIVE STYLE TOOL.
6. No-Ox-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
7. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
8. PENNTOX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

**GROUND LUG INSTALLATION DETAIL**

SCALE: N.T.S.

2  
G-5



**OVP GROUND ASSEMBLY (OGA)**

SCALE: N.T.S.  
(BY VZW GC)

3  
G-5



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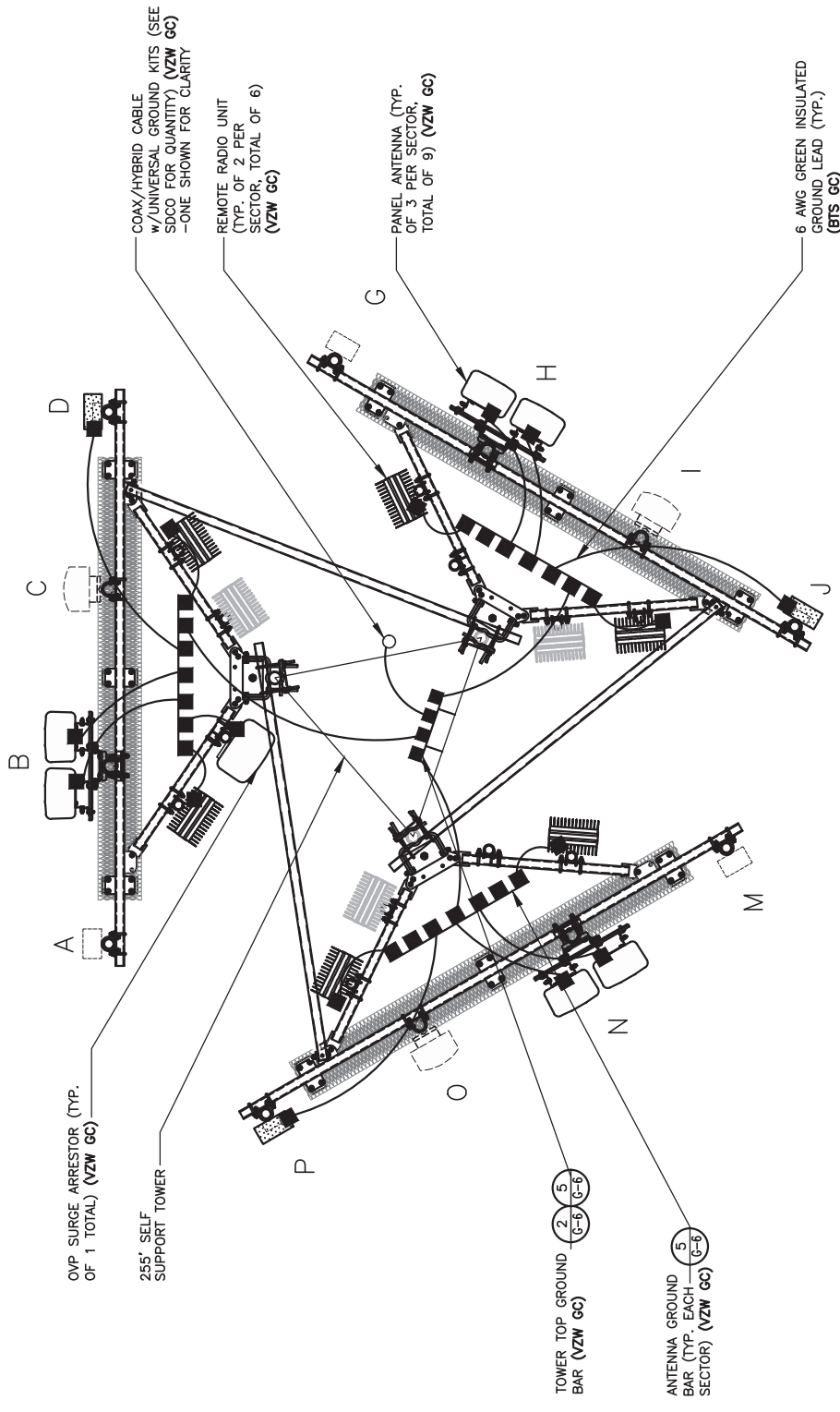
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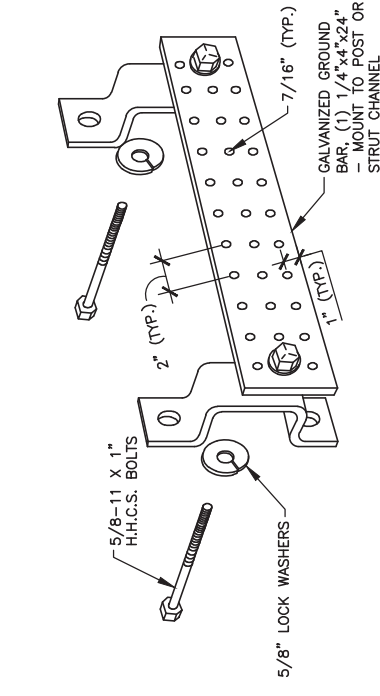
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**GROUNDING DETAILS**

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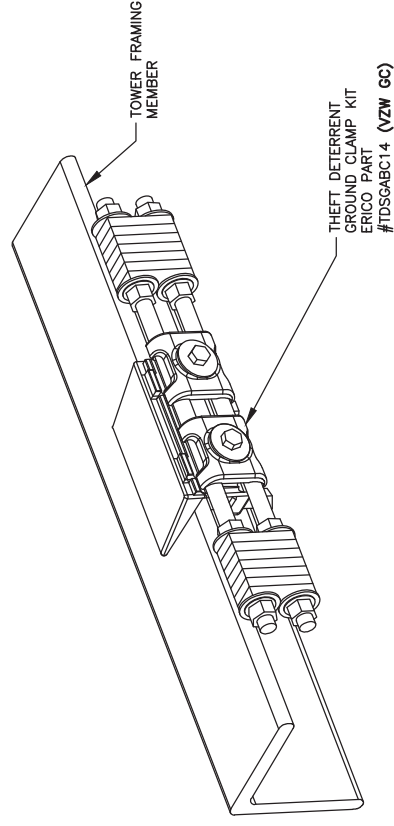
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**3 ANTENNA LEVEL GROUNDING PLAN**  
SCALE: N.T.S.

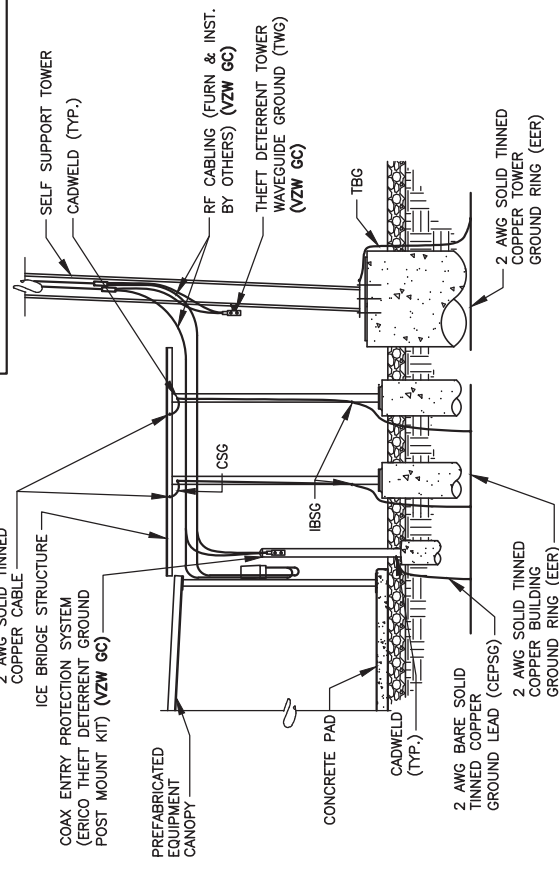


**5 ANTENNA & TOWER TOP GROUND BAR**  
SCALE: N.T.S. (BY VZW GC)

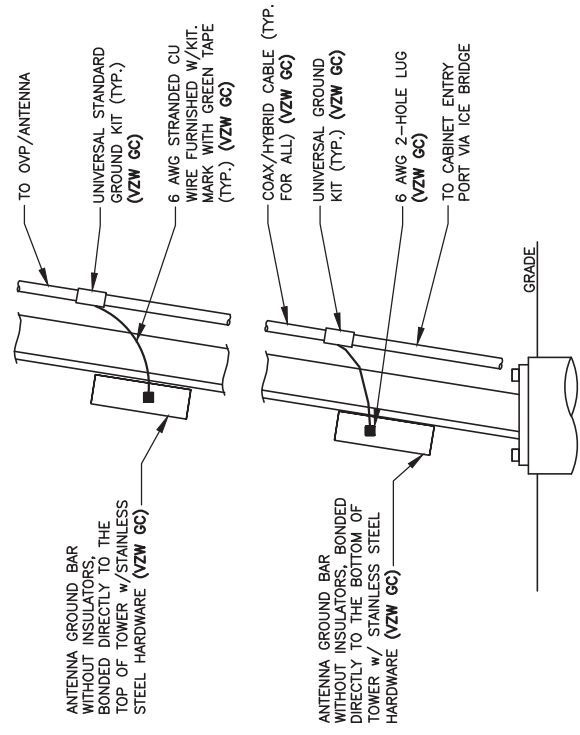


**4 TOWER BOTTOM GROUND ASSEMBLY**  
SCALE: N.T.S. (BY VZW GC)

NOTE: GROUNDING RING DOES NOT PENETRATE SHELTER, TOWER OR ICE BRIDGE FOUNDATIONS REFER TO ELECTRICAL SITE PLAN



**1 INTERIOR/EXTERIOR GROUNDING DETAIL**  
SCALE: N.T.S.



NOTE: NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION, PROVIDE AS REQUIRED (VZW GC)  
2. INSTALL UNIVERSAL GROUND KITS AT ALL GROUND BAR LOCATIONS. (VZW GC)

**2 ANTENNA CABLE GROUNDING INSTALLATION DETAIL**  
SCALE: N.T.S.





TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	11/29/23	ISSUED FOR REVIEW
B	01/31/24	ISSUED FOR REVIEW
0	02/23/24	ISSUED FOR CONSTRUCTION
1	03/26/24	ISSUED FOR CONSTRUCTION



SITE INFORMATION:  
**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

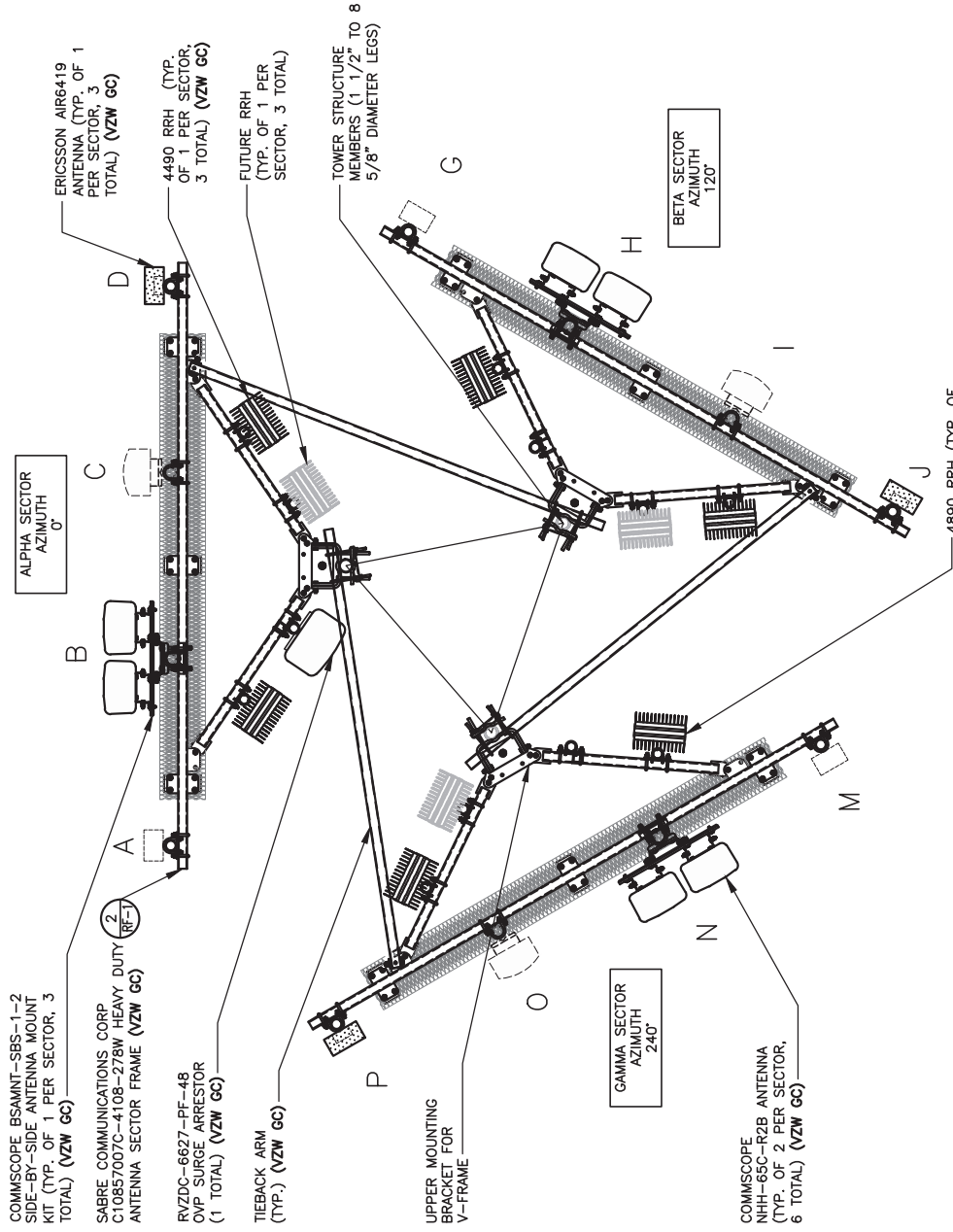
SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16933259  
DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
**ANTENNA PLAN AND DETAILS (REFERENCE ONLY)**

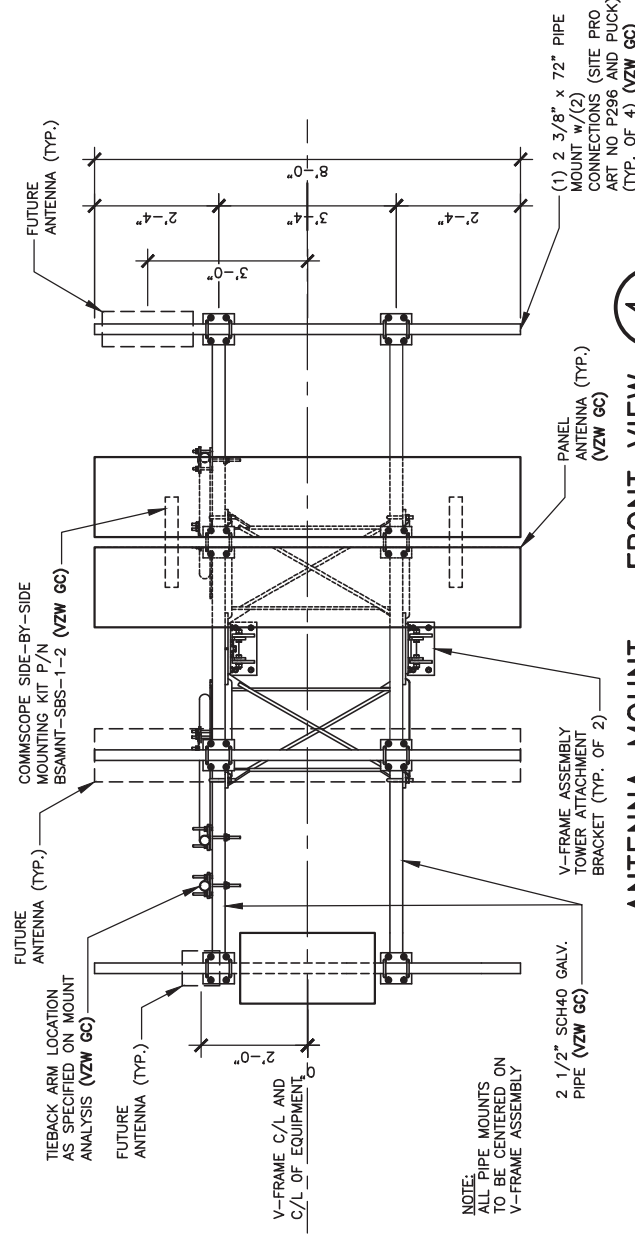
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**RF-1**

WK PRO & CAMPO REV. 3 FINAL 10/16/23



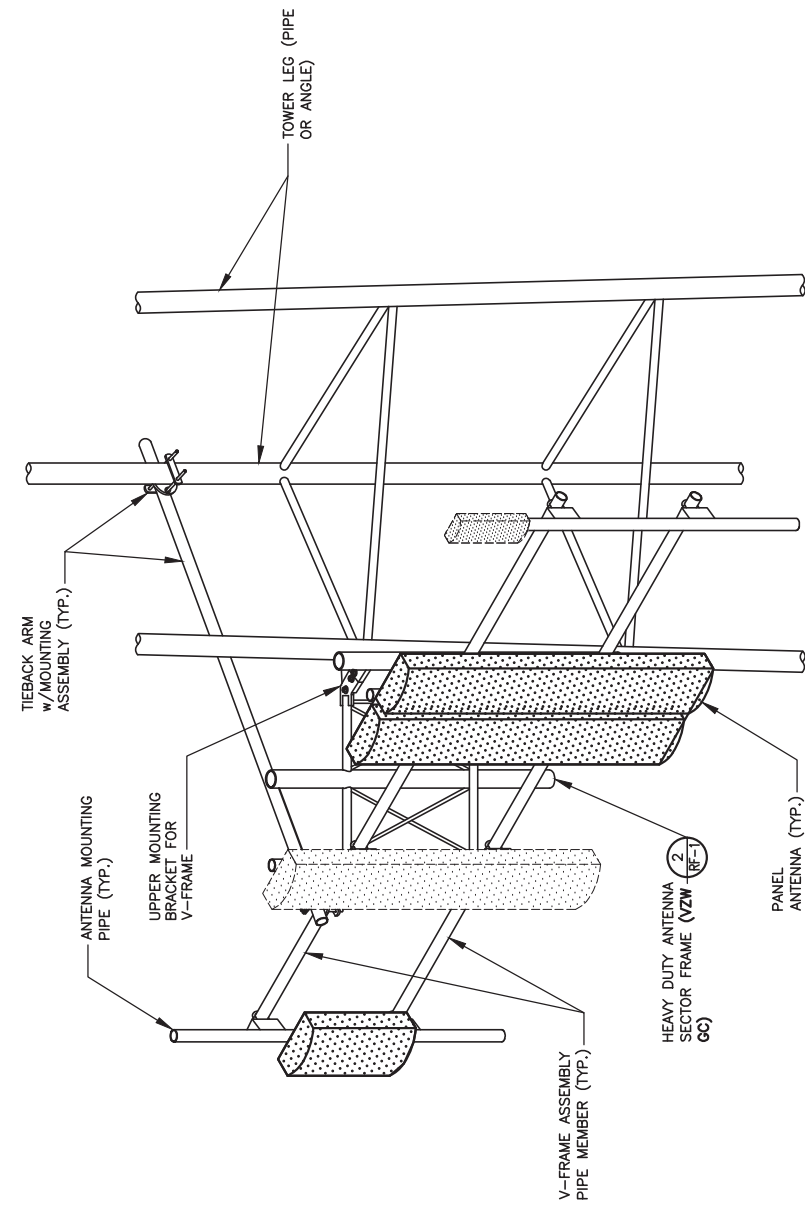
NOTE:  
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.

**ANTENNA LAYOUT - PLAN VIEW**  
SCALE: N.T.S. (BY VZW GC)



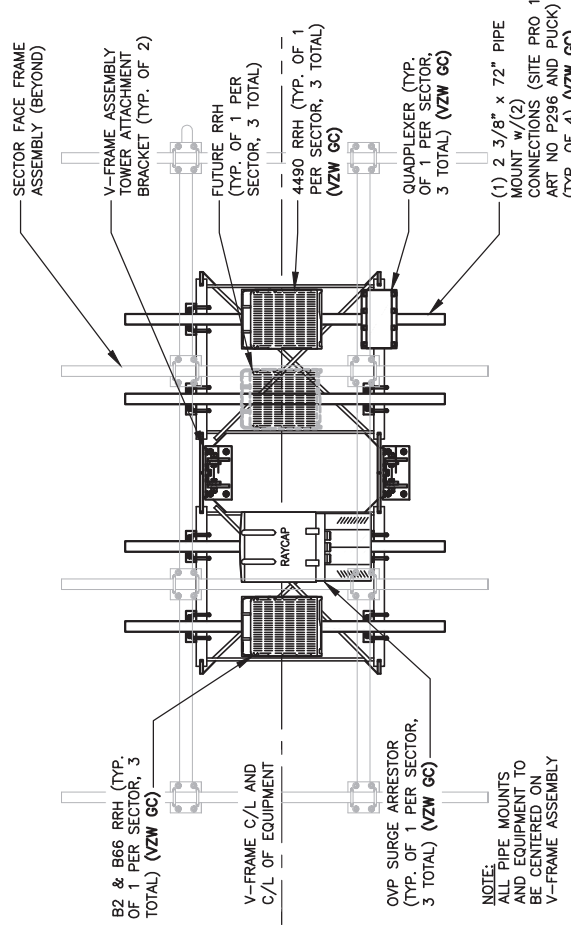
NOTE:  
ALL PIPE MOUNTS TO BE CENTERED ON V-FRAME ASSEMBLY

**ANTENNA MOUNT - FRONT VIEW**  
SCALE: N.T.S. (BY VZW GC)



THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE STRUCTURAL ANALYSIS FOR REQUIRED HYBRID CABLE SUPPORT CONFIGURATIONS NOT INDICATED ON THE DETAIL. I.E. BUNDLED CABLES.

**HYBRID CABLE SUPPORT DETAIL**



NOTE:  
ALL PIPE MOUNTS AND EQUIPMENT TO BE CENTERED ON V-FRAME ASSEMBLY

**ANTENNA MOUNT - REAR VIEW (FLATTENED)**  
SCALE: N.T.S. (BY VZW GC)

- GENERAL NOTES:**
- VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
  - THE MAXIMUM HYBRID CABLE LENGTH HAS BEEN ESTIMATED AT          FEET, APPROXIMATELY. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.
  - TAG ALL MAIN CABLES AT TWO (2) LOCATIONS.
    - AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
  - EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
  - HYBRID CABLES TO BE SUPPORTED EVERY 36\"/>

**ANTENNA MOUNT 1**  
SCALE: N.T.S. (BY VZW GC)

**ANTENNA MOUNT 2**  
SCALE: N.T.S. (BY VZW GC)

**ANTENNA MOUNT 3**  
SCALE: N.T.S. (BY VZW GC)



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)



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Wixom, Michigan 48393  
PHONE: (248) 705-9212

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SITE INFORMATION:  
**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16933259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

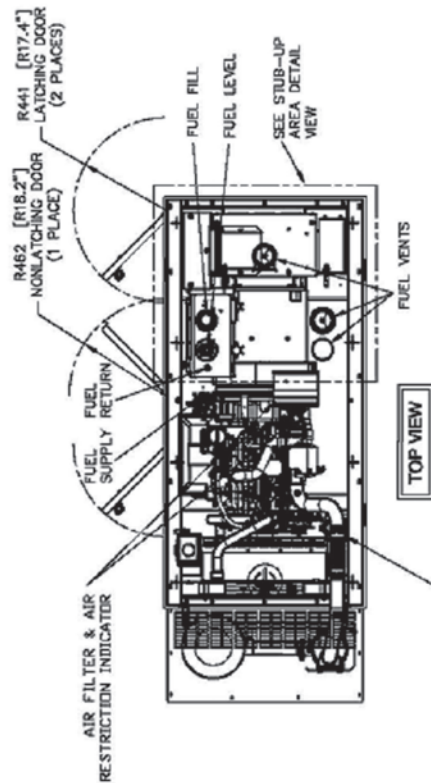
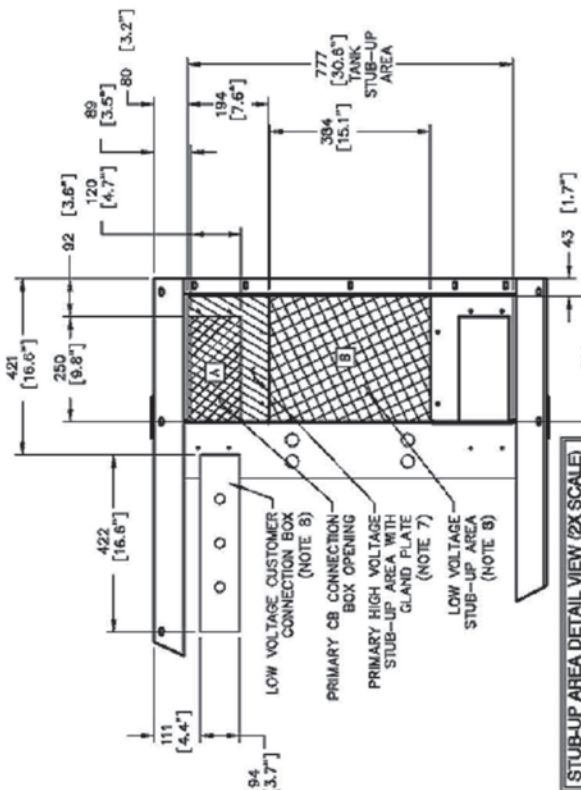
SHEET TITLE:  
GENERATOR SPECIFICATIONS (REFERENCE ONLY)

SHEET NUMBER:  
REF-1

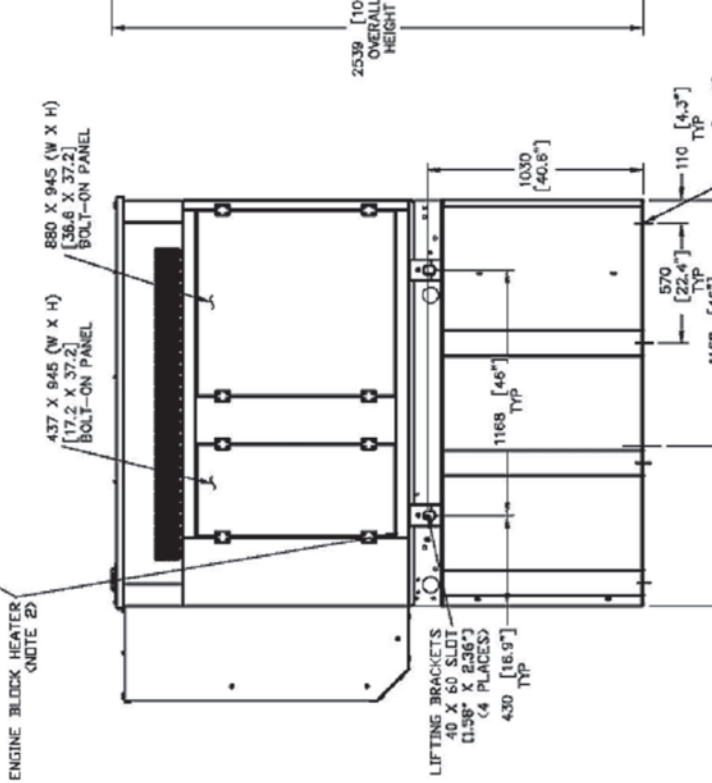
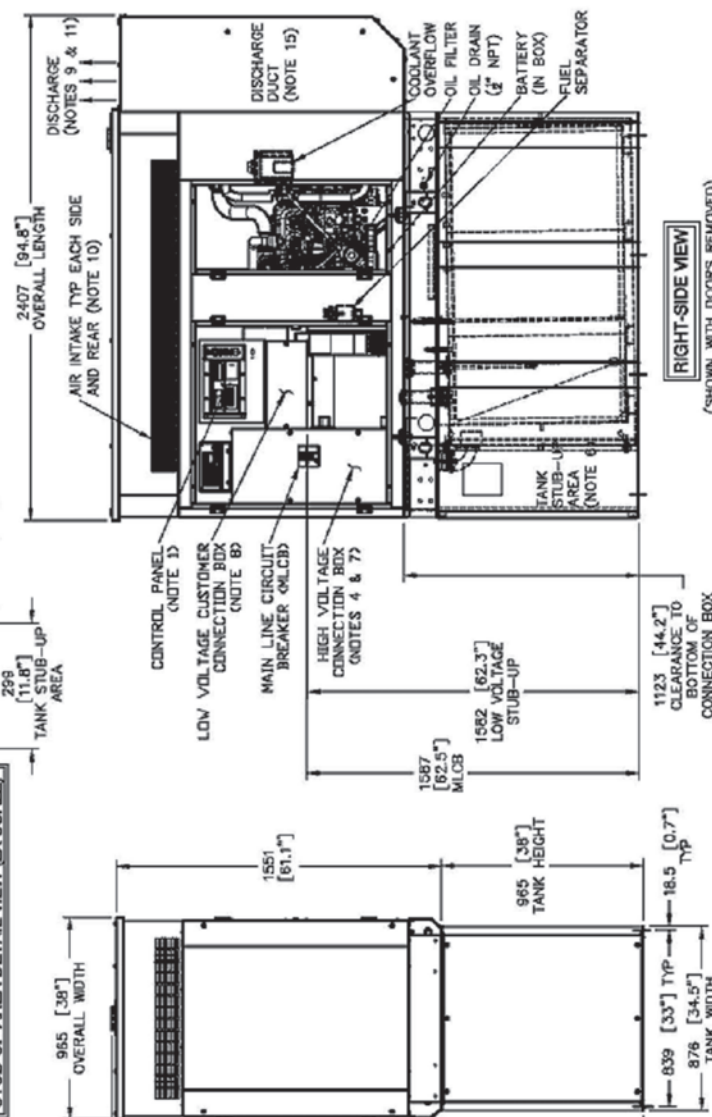
WIK PRO & CAMRY REV. 3 FINAL 10/19/23

0J7500E

DESCRIPTION	INSIDE BASE
<b>HIGH VOLTAGE STUB-UP AREA</b> 1) AC LOAD LEAD CONDUIT AREA, 2) 120/240 VAC FROM UTILITY (BY OTHERS) (GLAND PLATE INCLUDED)	A
<b>LOW VOLTAGE STUB-UP AREA</b> 1) TRANSFER SWITCH/COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT WITH AC WIRING. (SEE NOTE B)	B



- NOTES:**
- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
  - 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
  - 12 VOLT NEGATIVE GROUND SYSTEM.
  - GENERATOR MUST BE GROUNDED.
  - CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
  - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
  - HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTION AND AUXILIARY 120/240V CONNECTION.
  - CONNECTION POINTS FOR CONTROL WIRES, BOTTOM OF LOW VOLTAGE CUSTOMER CONNECTION BOX HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS.
  - MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - MUST ALLOW FREE FLOW OF INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
  - IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
  - 210 GALLON USABLE CAPACITY BASETANK IS INCLUDED WITH GENERATOR.
  - UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD.
  - FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (05502) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR (IN BOX).
  - SEE DRAWING 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.



WEIGHT DATA: (INCLUDES EMPTY FUEL TANK)  
GENERATOR: 1432 KG (3157 LBS)  
GENERATOR WITH WOODEN SHIPPING SKID: 1491 KG (3287 LBS)

UNITS: mm [INCHES]

GENERAC POWER SYSTEMS  
Waukesha  
P.O. BOX 8  
WAUKESHA, WIS. 53187

INSTALL SD030  
DIESEL 2.4L G16  
L2A Y02 SSM  
210 GAL BASETANK  
ISSUE DATE: 05/21/14

FILE NAME	SIZE
0J7500E.DWG	B

SCALE 1 = 30  
FIRST USE CC 1725150  
DWG NO. 0J7500E  
REV A

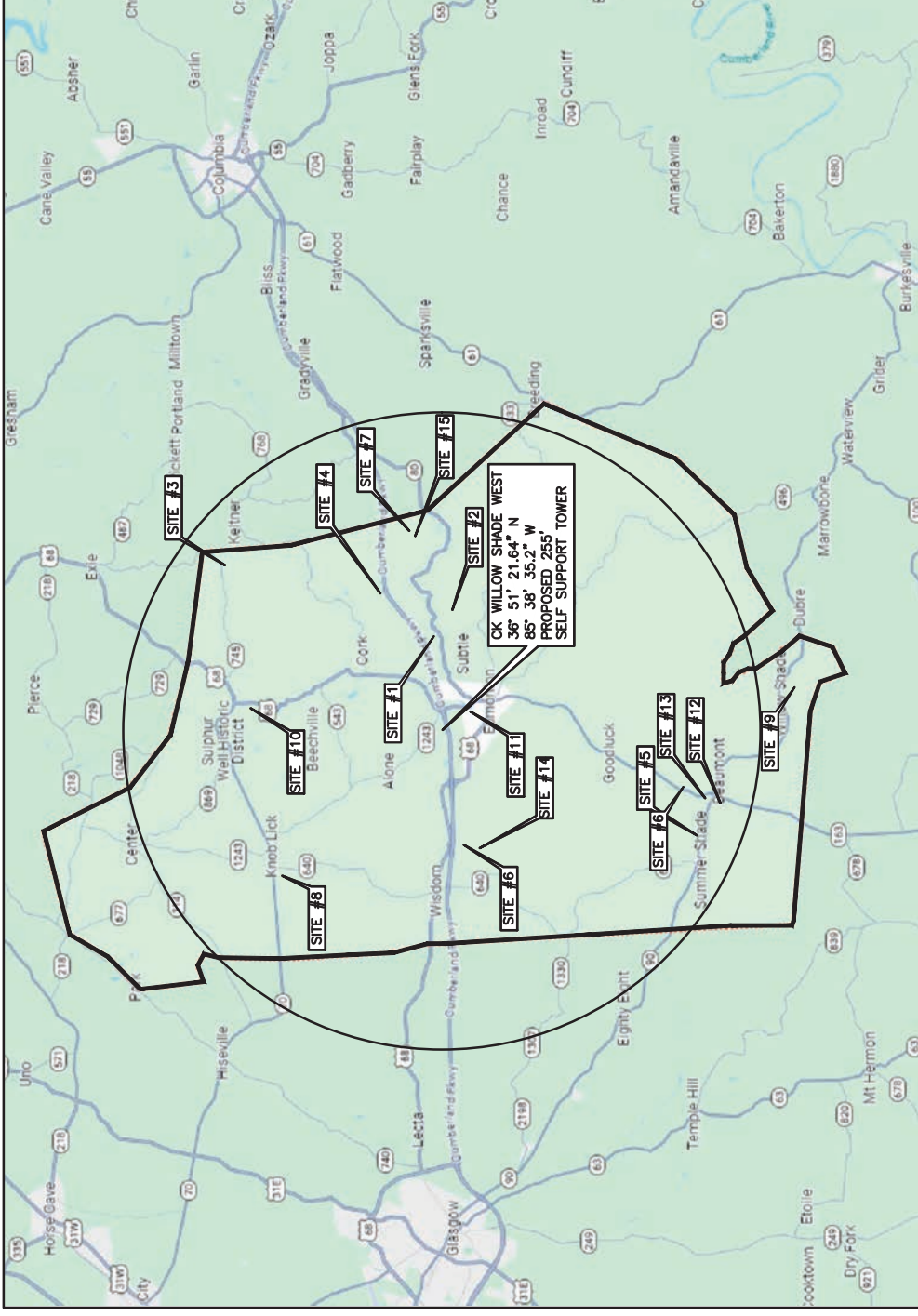
INSTALLATION DRAWING

GENERAC POWER SYSTEMS  
© GENERAC POWER SYSTEMS, INC.

CELLCO  
PARTNERSHIP D/B/A



**CITY OF SUMMER SHADE  
METCALFE COUNTY, KENTUCKY  
VERIZON WIRELESS SITE CK  
WILLOW SHADE WEST  
TOWER LOCATION EXHIBIT**



MAP NOT TO SCALE

- SITE#1: FCC# 1007823, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC, 37° 00' 19.9"N, 085° 34' 34.2"W
- SITE#2: FCC# 1043059, CELLCO PARTNERSHIP, 36° 59' 41.0"N, 085° 33' 38.0"W
- SITE#3: FCC# 1044821, KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS, 37° 06' 00.0"N, 085° 32' 10.1"W
- SITE#4: FCC# 1048812, HART COUNTY COMMUNICATIONS INC, 37° 01' 32.0" N, 085° 33' 20.0"W
- SITE#5: FCC# 1214425, TENNESSEE VALLEY AUTHORITY, 36° 52' 56.0"N, 085° 41' 16.8"W
- SITE#6: FCC# 1252327, SBA TOWERS VII, LLC, 36° 59' 38.2"N, 085° 41' 15.3"W
- SITE#7: FCC# 1252869, SBA TOWERS VII, LLC, 37° 01' 04.2"N, 085° 30' 53.2"W
- SITE#8: FCC# 1260710, CELLCO PARTNERSHIP, 37° 04' 25.0"N, 085° 42' 47.2"W
- SITE#9: FCC# 1261655, CELLCO PARTNERSHIP, 36° 50' 21.2"N, 085° 36' 18.3"W
- SITE#10: FCC# 1266731, CELLCO PARTNERSHIP, 37° 05' 29.1"N, 085° 36' 52.2"W
- SITE#11: FCC# 1290351, AMERICAN TOWERS LLC, 36° 59' 20.7"N, 085° 36' 56.3"W
- SITE#12: FCC# 1309696, CTI ASSETS II, LLC, 36° 52' 34.0"N, 085° 40' 01.6"W
- SITE#13: FCC# 1310242, VB BTS, LLC, 36° 52' 43.7"N, 085° 39' 53.1"W
- SITE#14: FCC# 1316243, UNITI TOWERS LLC, 36° 59' 34.3"N, 085° 41' 17.1"W
- SITE#15: FCC# 1319787, TILLMAN INFRASTRUCTURE, LLC, 37° 00' 56.4"N, 085° 31' 05.3"W



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SITE INFORMATION:  
**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
**723518**

SITE NAME:  
**CK WILLOW SHADE WEST**

PID NUMBER: 16833259  
DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
**PSC MAP**

SHEET NUMBER:  
**PSC-1**  
MK PWD & CADDY REV. 3 FINAL 10/16/23

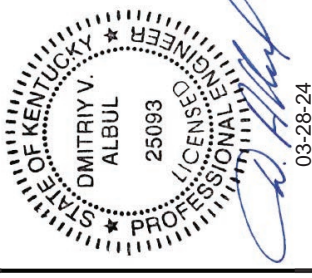


TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
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859.544.5000 (PH)



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SITE INFORMATION:  
03-28-24

**CK WILLOW SHADE WEST**  
6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
**CK WILLOW SHADE WEST**  
PID NUMBER: 16833259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
PSC MAP

SHEET NUMBER:  
PSC-2

WK PLO & CAMPY REV. 3 FINAL 10/16/23

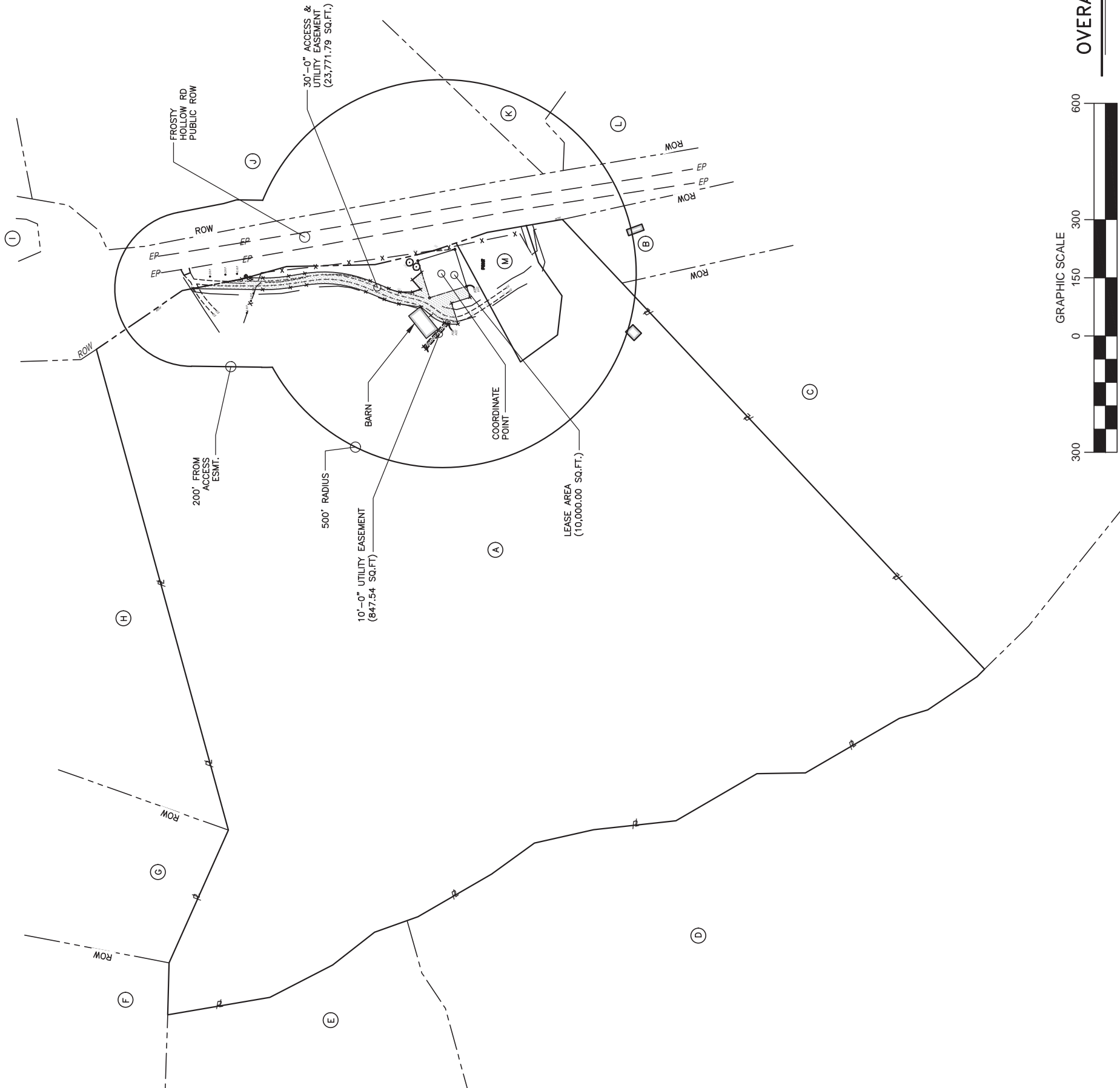
- A. MAP 042-00-00-014.02  
JENT, JERRY  
71 TALL PINE RIDGE  
SCUDDY, KY 41760
- B. MAP 042-00-00-019.03  
NORRIS, HEATHER L & JUDY ANN  
7271 SUMMER SHADE RD  
BEAUMONT, KY 42124
- C. MAP 042-00-00-019.01  
MOTLEY TRADING CO LLC  
BRADLEY S DUBREE  
PO BOX 207  
SMITHS GROVE, KY 42171
- D. MAP 042-00-00-013.01  
RITTER FARMS II INC  
JAMES RITTER PRESIDENT  
93 BEECHWOOD RD  
TOMPKINSVILLE, KY 42167
- E. MAP 042-00-00-013.04  
ADAMS, JOSHUA L  
740 EUGENE LYNN RD.  
SUMMER SHADE, KY 42166
- F. MAP 042-00-00-012.00  
MUTTER, RICHARD A & CLAIRE  
439 BAILES RD  
GLASGOW, KY 42141
- G. MAP 042-00-00-015.01  
HOSTETLER, FANNIE &  
KRISTAL LESLIE  
PO BOX 117  
SUMMER SHADE, KY 52166
- H. MAP 042-00-00-015.00  
MOREHEAD, MATTHEW & CHRISTIE  
6671 SUMMER SHADE RD  
BEAUMONT, KY 42124
- I. MAP 042-00-00-017.00  
WILLIAMS, JARED C & DIANNA L  
6796 SUMMER SHADE RD  
BEAUMONT, KY 42124
- J. MAP 042-00-00-018.00  
CASH FOR FARMS LLC & CASH FUGATE  
PO BOX 73  
SUMMER SHADE, KY 52166
- K. MAP 042-00-00-019.00, LOT XX  
ROSS, CAYDEN SHANE  
7312 SUMMER SHADE RD  
BEAUMONT, KY 42124
- L. MAP 042-00-00-019.02  
HARDIN, LARRY WAYNE  
LISA CARTER  
9020 SUMMER SHADE RD  
SUMMER SHADE, KY 52166
- M. MAP 042-00-00-014.02  
JENT, JERRY  
71 TALL PINE RIDGE  
SCUDDY, KY 41760

\* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS. ISSUED BY REPRESENTATIVE FROM ROCKCASTLE COUNTY TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.



**OVERALL SITE PLAN**

SCALE: 1" = 300'





1 Fairholm Avenue  
Peoria, IL 61603 USA  
Phone: (309)-566-3000  
Fax: (309)-566-3079

**DATE:** MARCH 20, 2024

**PURCHASER:** TAG TOWERS, LLC

**PROJECT:** 255FT RTL SELF SUPPORT TOWER  
WILLOW SHADE WEST, KY

**FILE NUMBER:** 245661

I CERTIFY THAT THE ATTACHED DRAWINGS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE DESIGN AND LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.

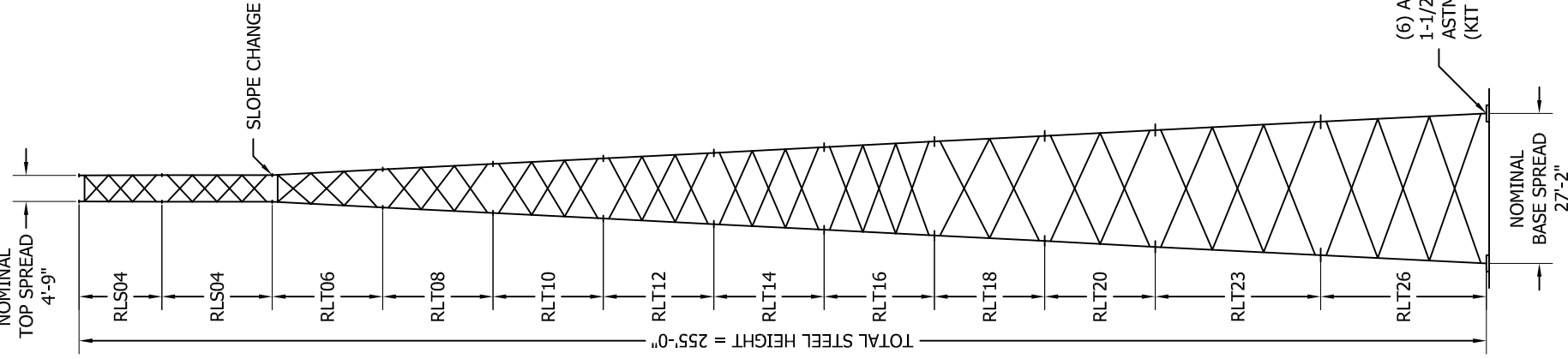
*Allen Schneider*

03/20/2024

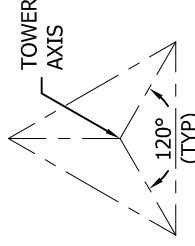


**GENERAL NOTES**

- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-H UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-H AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- STEP BOLTS WITH SAFETY CLIMB SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-H, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
- A NUT LOCKING DEVICE IS PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-H.
- ALL HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED FOR DOUBLE ANGLE MEMBERS, ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-H.
- DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
- DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE, IF APPLICABLE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.



MAXIMUM FACTORED REACTIONS	
COMPRESSION PER LEG =	351.4 KIPS
TENSION PER LEG =	302.9 KIPS
SHEAR PER LEG =	28.8 KIPS
TOTAL SHEAR =	46.4 KIPS
TOTAL O.T.M =	7,770.5 FT-KIPS



**TOWER CONFIGURATION**  
N.T.S.

(6) ANCHOR BOLTS (18 TOTAL)  
1-1/2" DIA. X 74" LONG  
ASTM F1554 Gr. 105  
(KIT P/N: 18K2716RTFST)

**TOWER DESIGN LOADING**

DESIGN WIND LOAD PER ANSI/TIA-222-H USING THE FOLLOWING DESIGN CRITERIA:  
RISK CATEGORY: II  
BASIC WIND SPEED (NO ICE): 105 MPH PER ASCE 7-16  
BASIC WIND SPEED (W/ICE): 30 MPH PER ASCE 7-16  
DESIGN ICE THICKNESS: 1.50 INCHES PER ASCE 7-16  
GROUND ELEVATION, Z<sub>s</sub>: 960 FT  
EXPOSURE CATEGORY: B  
TOPOGRAPHIC METHOD: 1, CATEGORY: 1  
SEISMIC DESIGN PARAMETERS, S<sub>s</sub>: 0.192, S<sub>i</sub>: 0.106, T<sub>i</sub>: 12, SITE CLASS: D

THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA LOADING	LINE SIZE (NOM)
TOP	BEACON & LIGHTNING ROD	(1) 0-1/2" CONDUIT
250	42,000 SQ-IN [292 SQFT] MAX EPA	(2) 1-5/8"
235	25,000 SQ-IN [174 SQFT] MAX EPA	(2) 1-5/8"
220	25,000 SQ-IN [174 SQFT] MAX EPA	(2) 1-5/8"
205	25,000 SQ-IN [174 SQFT] MAX EPA	(2) 1-5/8"

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEGS	DIAGONALS	HORIZONTALS
RLS04	PIPE 2.875x0.203	L1 3/4x1 3/4x1/8 (3)	L1 3/4x1 3/4x3/16 (1)
RLS04	PIPE 3.500x0.216	L1 3/4x1 3/4x1/8 (4)	N/A
RLT06	PIPE 4.500x0.337	L1 3/4x1 3/4x3/16 (3)	L1 3/4x1 3/4x3/16 (1)
RLT08	PIPE 5.563x0.258	L1 3/4x1 3/4x3/16 (3)	N/A
RLT10	PIPE 5.563x0.375	L2x2x3/16 (3)	N/A
RLT12	PIPE 5.563x0.375	L2 1/2x2 1/2x3/16 (3)	N/A
RLT14	PIPE 5.563x0.375	L2 1/2x2 1/2x3/16 (3)	N/A
RLT16	PIPE 6.625x0.340	L2 1/2x2 1/2x3/16 (3)	N/A
RLT18	PIPE 6.625x0.432	L3x3x3/16 (2)	N/A
RLT20	PIPE 6.625x0.432	L3x3x3/16 (2)	N/A
RLT23	PIPE 8.625x0.375	L3 1/2x3 1/2x1/4 (3)	N/A
RLT26	PIPE 8.625x0.375	L4x4x1/4 (3)	N/A

**NOTE:**  
SECTION NUMBERS ARE FOR REFERENCE ONLY.  
FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.  
THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO.

245661

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP



PO BOX 5999  
PEORIA, IL 61601-5999  
TOLL FREE 800-727-ROHN

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TAG TOWERS, LLC  
DESIGN PROFILE  
255 FT RTL TOWER  
WILLOW SHADE WEST, KY

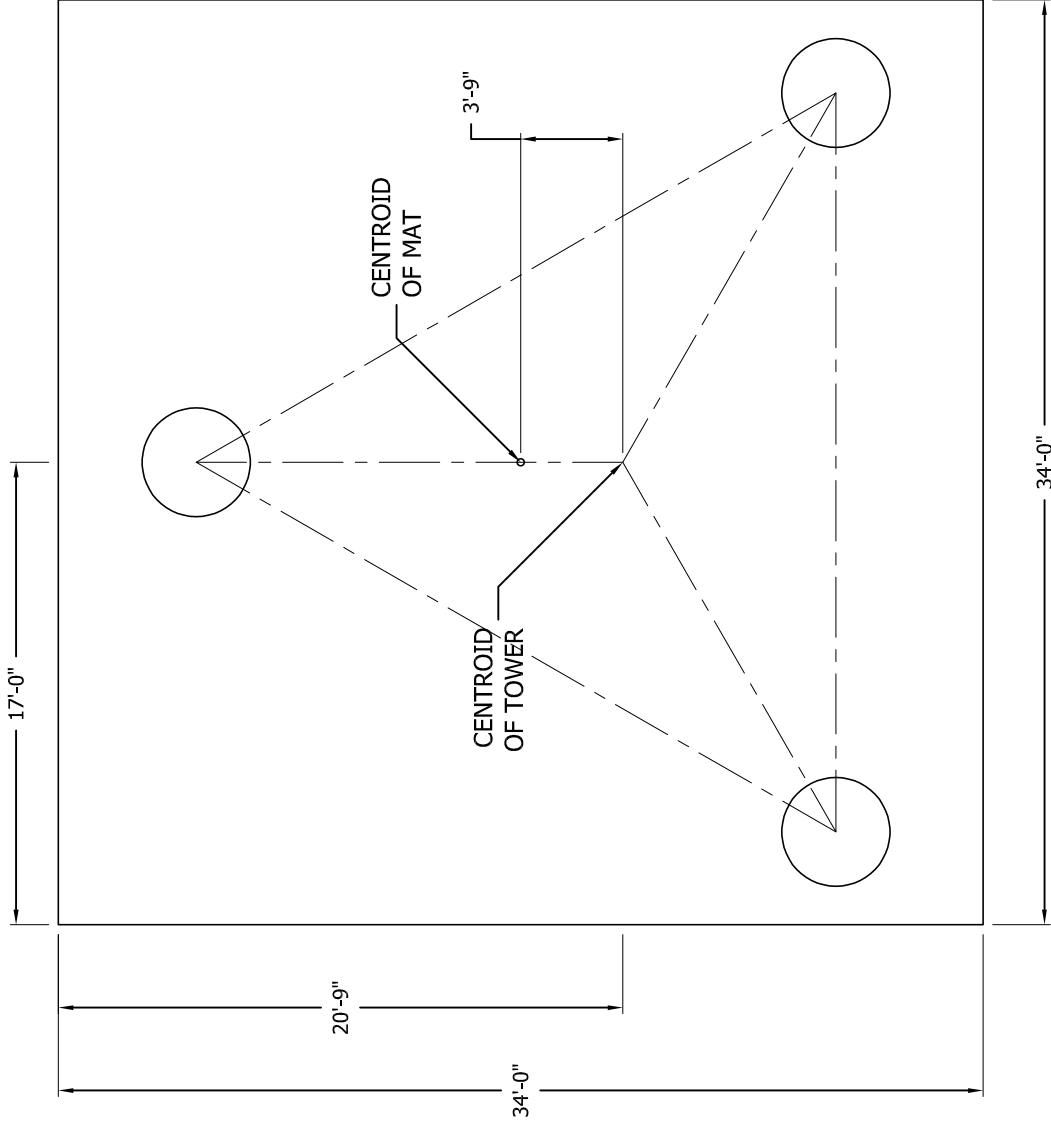
DWN:	AS	CHK'D:	SY	DATE:	03/20/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

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245661-01-D1

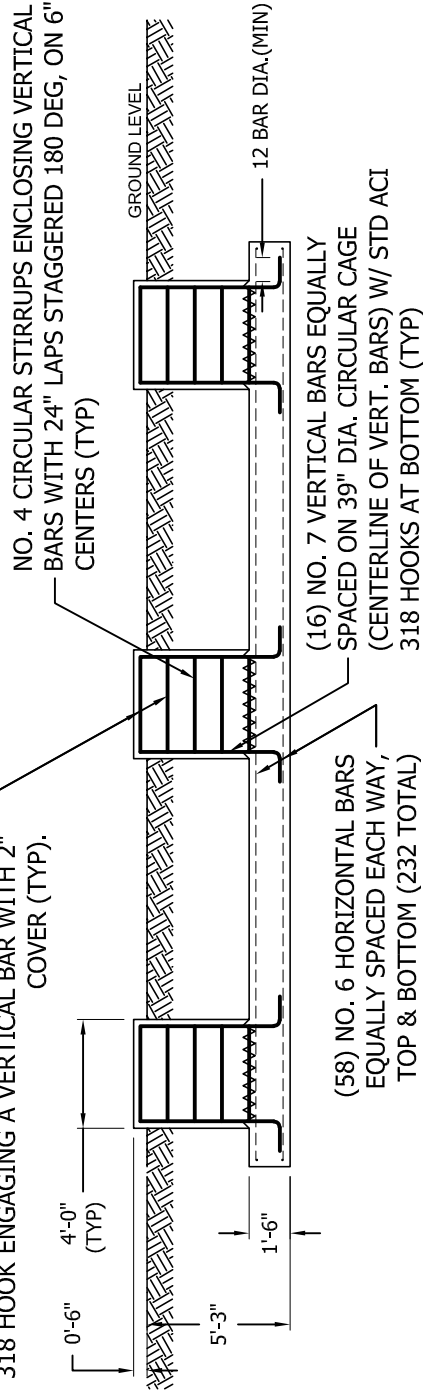
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### PLAN VIEW

(2) NO. 4 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS @ 2-1/2" C-C W/ 180 DEG. STAGGERED 6" MIN LAPS TERMINATED AT EACH END WITH A STD. ACI 318 HOOK ENGAGING A VERTICAL BAR WITH 2" COVER (TYP).



### ELEVATION VIEW

### FACTORED REACTIONS

Maximum O.T.M = 7,770.5 FT-K  
 Total Tower Wt = 52.8 KIPS  
 Total Shear = 46.4 KIPS  
 Max. Shear/Leg = 28.8 KIPS  
 Max. Ten./Leg = 302.9 KIPS  
 Max. Comp./Leg = 351.4 KIPS

### CONCRETE VOLUME

ROUND PIERS 5.9 CU.YDS  
 PAD 64.2 CU.YDS  
 TOTAL 70.2 CU.YDS

## GENERAL NOTES

- 1 FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - A) ULTIMATE SOIL BEARING PRESSURE AT 5.25 FT DEPTH = 14,000 PSF.
  - B) GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
  - C) MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- 2 WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- 3 CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- 4 PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- 5 MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- 6 REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- 7 WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- 8 MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- 9 CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
- 10 FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
- 11 FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **23125691** DATED **2/28/2024** BY **ENGINEERED TOWER SOLUTIONS, PLLC**.
- 12 FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- 13 FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- 14 FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- 15 ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- 16 FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- 17 FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- 18 FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
- 19 LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- 20 CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 21 CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- 22 CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- 23 TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- 24 EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

FILE NO.

245661

### REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP



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TAG TOWERS, LLC  
 MAT W/RAISED PIERS  
 FOUNDATION DESIGN  
 WILLOW SHADE WEST, KY

DWN:	AS	CHK'D:	DATE:
ENGR:		SHEET #:	1 OF 1
PRJ. ENGR:	AS	PRJ. MANGR:	

DRAWING NO:

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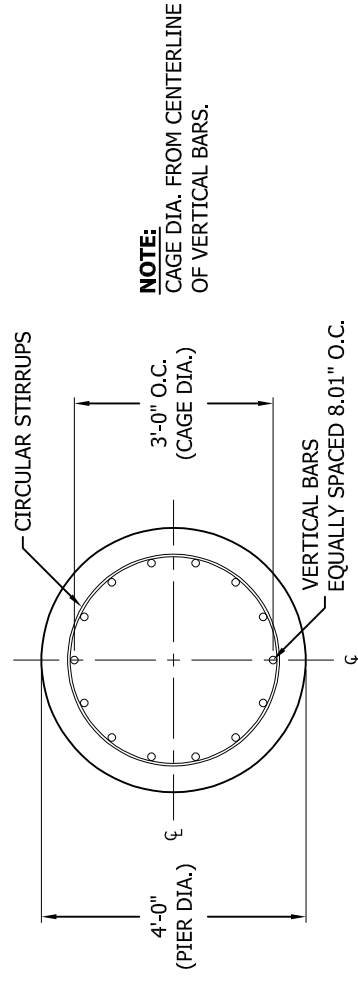
REV:

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REVISIONS			
REV.	DESCRIPTION	DWN	CHK
APP			

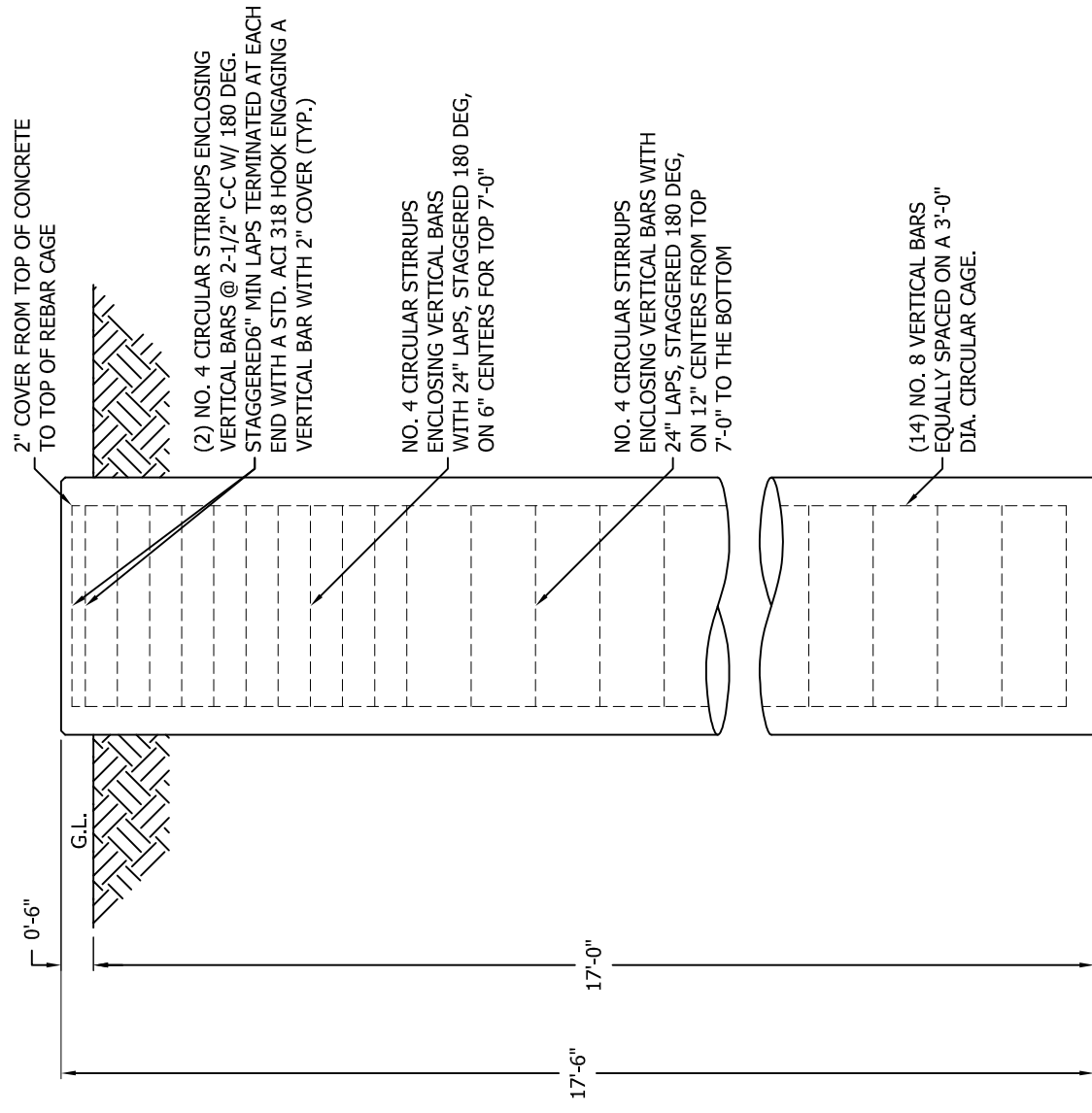
### GENERAL NOTES:

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - DEPTH NEGLECTED FOR SKIN FRICTION = 2.236 KSF, 3.0 FT TO 17.0 FT
  - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 3.0 FT TO 4.0 FT DEPTH = 1700 PSF, AND 4.0 FT TO 6.0 FT DEPTH = 2400 PSF, AND 6.0 FT TO 9.0 FT DEPTH = 2100 PSF, AND 9.0 FT TO 14.0 FT DEPTH = 700 PSF, AND 14.0 FT TO 17.0 FT DEPTH = 5000 PSF.
  - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 3.0 FT TO 4.0 FT DEPTH = 1700 PSF, AND 4.0 FT TO 6.0 FT DEPTH = 2400 PSF, AND 6.0 FT TO 9.0 FT DEPTH = 2100 PSF, AND 9.0 FT TO 14.0 FT DEPTH = 700 PSF, AND 14.0 FT TO 17.0 FT DEPTH = 5000 PSF.
  - ULTIMATE NET END BEARING AT 17.0 FT = 40.00 KSF.
  - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPa) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **23125691** DATED **02/28/2024** BY **ENGINEERED TOWER SOLUTIONS, PLLC**.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.



### PLAN VIEW

N.T.S.



### ELEVATION VIEW

N.T.S.

### FACTORED REACTIONS/LEG

DOWNLOAD =	351.4 KIPS
UPLIFT =	302.9 KIPS
SHEAR =	28.8 KIPS

### VOLUME OF CONCRETE

(1) FOUNDATION	8.1 CU. YDS
(3) FOUNDATIONS	24.3 CU. YDS



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TAG TOWERS, LLC  
DRILLED PIER  
FOUNDATION DETAILS  
WILLOW SHADE WEST, KY

DWN:	AS	CHK'D:	SY	DATE:	03/20/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANAGR:			

DRAWING NO:

245661-01-F2

REV:

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File: W:\Jobs\2024\245661\ENGINEERING\245661.out  
Contract: 245661  
Project: 255 FT RTL TOWER  
Date and Time: 3/20/2024 8:22:36 AM

Revision: 0  
Site: WILLOW SHADE WEST- KY  
Engineer: AS

**Section A: PROJECT DATA**

Project Title: 255 FT RTL TOWER  
Customer Name: TAG TOWERS- LLC  
Site: WILLOW SHADE WEST- KY  
Contract No.: 245661  
Revision: 0  
Engineer: AS  
Date: Mar 20 2024  
Time: 08:21:57 AM

Design Standard: ANSI/TIA-222-H-2017

ENGINEERING  
CHECKED BY: SY  
03/20/2024

**GENERAL DESIGN CONDITIONS**

Start wind direction: 0.00 (Deg)  
End wind direction: 330.00 (Deg)  
Increment wind direction: 30.00 (Deg)  
Elevation above ground: 0.00 (ft)  
Mean elevation of base of structure above sea level Zs: 960.00 (ft)  
Rooftop wind speed-up factor Ks: 1.00  
Gust Response Factor Gh: 0.85  
Risk category: II  
Exposure category: B  
Topographic category: 1  
Material Density: 490.1(lbs/ft^3)  
Young's Modulus: 29000.0(ksi)  
Poisson Ratio: 0.30  
Weight Multiplier: 1.25  
Minimum Bracing Resistance as per 4.4.1

**WIND ONLY CONDITIONS:**  
Basic Wind Speed (No Ice): 105.00(mph)  
Directionality Factor Kd: 0.85  
Importance Factor I: 1.00  
Wind Load Factor: 1.00  
Dead Load Factor: 1.20  
Dead Load Factor for Uplift: 0.90

**WIND AND ICE CONDITIONS:**  
Basic Wind Speed (With Ice): 30.00(mph)  
Directionality Factor Kd: 0.85  
Wind Load Importance Factor Iw: 1.00  
Ice Thickness Importance Factor Ii: 1.00  
Ice Thickness: 1.50 (in)  
Ice Density: 56.19(lbs/ft^3)  
Wind Load Factor: 1.00  
Dead Load Factor: 1.20  
Ice Load Factor: 1.00

**WIND ONLY SERVICEABILITY CONDITIONS:**  
Serviceability Wind Speed: 60.00(mph)  
Directionality Factor Kd: 0.85  
Importance Factor I: 1.00  
Wind Load Factor: 1.00  
Dead Load Factor: 1.00

**EARTHQUAKE CONDITIONS:**  
Site class definition: D  
Spectral response acceleration Ss: 0.192  
Spectral response acceleration S1: 0.106  
Long-period transition period TL: 12.000



TSTower - v 6.1.0.0 Tower Analysis Program  
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Project: 255 FT RTL TOWER  
Date and Time: 3/20/2024 8:22:36 AM

Revision: 0  
Site: WILLOW SHADE WEST- KY  
Engineer: AS

Accelaration-based site coefficient Fa: 1.600  
Velocity-based site coefficient Fv: 2.388  
Design spectral response acceleration Sds: 0.205  
Design spectral response acceleration Sd1: 0.169  
Seismic analysis method: 1  
Fundamental frequency of structure f1: 0.657  
Total seismic shear Vs (Kips) : 1.95

Analysis performed using: TowerSoft Finite Element Analysis Program

File: W:\Jobs\2024\245661\ENGINEERING\245661.out

Contract: 245661

Project: 255 FT RTL TOWER

Date and Time: 3/20/2024 8:22:36 AM

Revision: 0

Site: WILLOW SHADE WEST- KY

Engineer: AS

**Section B: STRUCTURE GEOMETRY**

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	255.00	285.00	12	325.97	56.99

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. Database (lbs)		
12	RLS04	240.00	255.00	58	57	329	260	0	0	589	0	0.787
11	RLS04	220.00	240.00	58	58	573	299	0	0	872	0	0.787
10	RLT06	200.00	220.00	83	58	1131	462	0	0	1593	0	0.787
9	RLT08	180.00	200.00	107	83	1103	493	0	0	1596	0	0.787
8	RLT10	160.00	180.00	131	107	1565	652	0	0	2217	0	0.787
7	RLT12	140.00	160.00	155	131	1565	943	0	0	2509	0	0.787
6	RLT14	120.00	140.00	180	155	1565	1068	0	0	2634	0	0.787
5	RLT16	100.00	120.00	204	180	1717	1196	0	0	2914	0	0.787
4	RLT18*	80.00	100.00	228	204	2152	1147	0	0	3299	0	0.787
3	RLT20	60.00	80.00	254	228	2153	1249	0	0	3402	0	0.787
2	RLT23	30.00	60.00	290	254	3726	3207	0	0	6932	0	0.787
1	RLT26	0.00	30.00	326	290	3726	4094	0	0	7820	0	0.787
Total Mass:						21306	15069	0	0	36375	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
12	3	X	(None)		Yes	5.0	57.2	57.0	(None)	(None)	0.300	0.30
12	2	X	(None)		None	5.0	57.4	57.2	(None)	(None)	0.300	0.30
12	1	X	(None)		None	5.0	57.5	57.4	(None)	(None)	0.300	0.30
11	4	X	(None)		None	5.0	57.7	57.5	(None)	(None)	0.300	0.30
11	3	X	(None)		None	5.0	58.0	57.7	(None)	(None)	0.300	0.30
11	2	X	(None)		None	5.0	58.2	58.0	(None)	(None)	0.300	0.30
11	1	X	(None)		None	5.0	58.4	58.2	(None)	(None)	0.300	0.30
10	3	X	(None)	Yes	6.7	66.7	58.4	58.4	(None)	(None)	0.300	0.30
10	2	X	(None)	None	6.7	75.0	66.7	66.7	(None)	(None)	0.300	0.30
10	1	X	(None)	None	6.7	83.3	75.0	75.0	(None)	(None)	0.300	0.30
9	3	X	(None)	None	6.7	91.3	83.3	83.3	(None)	(None)	0.300	0.30
9	2	X	(None)	None	6.7	99.3	91.3	91.3	(None)	(None)	0.300	0.30
9	1	X	(None)	None	6.7	107.3	99.3	99.3	(None)	(None)	0.300	0.30
8	3	X	(None)	None	6.7	115.3	107.3	107.3	(None)	(None)	0.300	0.30
8	2	X	(None)	None	6.7	123.3	115.3	115.3	(None)	(None)	0.300	0.30
8	1	X	(None)	None	6.7	131.3	123.3	123.3	(None)	(None)	0.300	0.30
7	3	X	(None)	None	6.7	139.3	131.3	131.3	(None)	(None)	0.300	0.30
7	2	X	(None)	None	6.7	147.3	139.3	139.3	(None)	(None)	0.300	0.30
7	1	X	(None)	None	6.7	155.3	147.3	147.3	(None)	(None)	0.300	0.30
6	3	X	(None)	None	6.7	163.6	155.3	155.3	(None)	(None)	0.300	0.30
6	2	X	(None)	None	6.7	171.9	163.6	163.6	(None)	(None)	0.300	0.30
6	1	X	(None)	None	6.7	180.2	171.9	171.9	(None)	(None)	0.300	0.30
5	3	X	(None)	None	6.7	188.2	180.2	180.2	(None)	(None)	0.300	0.30
5	2	X	(None)	None	6.7	196.2	188.2	188.2	(None)	(None)	0.300	0.30
5	1	X	(None)	None	6.7	204.2	196.2	196.2	(None)	(None)	0.300	0.30
4	2	X	(None)	None	10.0	216.2	204.2	204.2	(None)	(None)	0.300	0.30
4	1	X	(None)	None	10.0	228.2	216.2	216.2	(None)	(None)	0.300	0.30
3	2	X	(None)	None	10.0	241.1	228.2	228.2	(None)	(None)	0.300	0.30
3	1	X	(None)	None	10.0	254.0	241.1	241.1	(None)	(None)	0.300	0.30
2	3	X	(None)	None	10.0	266.0	254.0	254.0	(None)	(None)	0.300	0.30
2	2	X	(None)	None	10.0	278.0	266.0	266.0	(None)	(None)	0.300	0.30

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Contract: 245661

Project: 255 FT RTL TOWER

Date and Time: 3/20/2024 8:22:36 AM

Revision: 0

Site: WILLOW SHADE WEST- KY

Engineer: AS

2	1	X	(None)	None	10.0	290.0	278.0	(None)	(None)	0.300	0.30
1	3	X	(None)	None	10.0	302.0	290.0	(None)	(None)	0.300	0.30
1	2	X	(None)	None	10.0	314.0	302.0	(None)	(None)	0.300	0.30
1	1	X	(None)	None	10.0	326.0	314.0	(None)	(None)	0.300	0.30

MEMBER PROPERTIES

Sec/ Member	Type	Description	Steel Grade	Conn. Type	Bolt #-Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
12/3	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
12/3	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
12/3	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
12/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
12/2	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
12/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
12/1	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/4	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
11/4	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
11/3	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
11/2	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
11/1	Diag	L1 3/4x1 3/4x1/8	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
10/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/3	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
10/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
10/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
9/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/2	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
9/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 5.563x0.258	A500	gr.CSTension	5-1.000	A325X						
9/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
8/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						

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8/3	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
8/2	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
8/1	Diag	L2x2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
5/3	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
5/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.250	0.375	A572	gr.50	2.000
5/2	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
5/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.250	0.375	A572	gr.50	2.000
5/1	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
5/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.250	0.375	A572	gr.50	2.000
4/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X						
4/2	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
4/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X						
4/1	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
3/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
3/2	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
3/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
3/1	Diag	L3x3x3/16	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
2/3	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						
2/3	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
2/2	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						
2/2	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
2/1	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						
2/1	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
1/3	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						



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1/3	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
1/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X					
1/2	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
1/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X					
1/1	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000



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**Section D: TRANSMISSION LINE DATA**

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	255.00	3/8 CABLE	17.00	0.00	0.00	1	1	Yes		
2	0.00	255.00	RC0.50-Cnd	13.67	60.00	5.00	1	1	No		
3	0.00	250.00	TX Ladder	9.05	60.00	30.00	1	1	No		
4	235.00	250.00	LDF7P-50A	1.60	60.00	30.00	2	1	No		
5	220.00	235.00	LDF7P-50A	1.61	60.00	30.00	4	1	No		
6	205.00	220.00	LDF7P-50A	2.12	60.00	30.00	6	1	No		
7	0.00	205.00	LDF7P-50A	9.05	60.00	30.00	8	1	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	RC0.50-Cnd	0.84	0.84	0.82	2.750	2.750
3	TX Ladder	4.70	1.50	4.00	2.750	2.750
4	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
5	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
6	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
7	LDF7P-50A	2.01	2.01	0.92	2.750	2.750



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**Section F: POINT LOAD DATA**

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	BEACON & LR	255.00	0.00	0.0	0.0	0.00		
2	42,000 SQ IN MAX EPA	250.00	0.00	0.0	0.0	0.00		
3	25,000 SQ IN MAX EPA	235.00	0.00	0.0	0.0	0.00		
4	25,000 SQ IN MAX EPA	220.00	0.00	0.0	0.0	0.00		
5	25,000 SQ IN MAX EPA	205.00	0.00	0.0	0.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	BEACON & LR	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	42,000 SQ IN MAX EPA	292.00	292.00	584.00	584.00	4.00	12.00	0.85
3	25,000 SQ IN MAX EPA	174.00	174.00	348.00	348.00	3.00	9.00	0.85
4	25,000 SQ IN MAX EPA	174.00	174.00	348.00	348.00	3.00	9.00	0.85
5	25,000 SQ IN MAX EPA	174.00	174.00	348.00	348.00	3.00	9.00	0.85





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**Section H: STRUCTURE DISPLACEMENT DATA**

Load Combination                      Wind Only - Serviceability

Wind Direction                      Maximum displacements

Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert.Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
108	255.0	14.9	15.1	-0.1	0.66	0.66	0.01
105	250.0	14.2	14.4	-0.1	0.68	0.68	0.02
102	245.0	13.5	13.7	-0.1	0.66	0.67	-0.01
99	240.0	12.8	13.0	-0.1	0.66	0.66	0.01
96	235.0	12.1	12.3	-0.1	0.64	0.65	0.01
93	230.0	11.5	11.6	-0.1	0.63	0.63	-0.01
90	225.0	10.8	11.0	-0.1	0.58	0.59	0.02
87	220.0	10.2	10.3	-0.1	0.56	0.56	-0.01
84	213.3	9.4	9.6	-0.1	0.51	0.52	0.02
81	206.7	8.7	8.8	-0.1	0.50	0.51	-0.01
78	200.0	8.0	8.1	-0.1	0.46	0.46	0.02
75	193.3	7.3	7.5	-0.1	0.45	0.45	-0.01
72	186.7	6.7	6.8	-0.1	0.40	0.40	0.02
69	180.0	6.2	6.3	-0.1	0.39	0.39	-0.01
66	173.3	5.6	5.7	-0.1	0.35	0.36	0.01
63	166.7	5.1	5.2	-0.1	0.35	0.35	-0.01
60	160.0	4.7	4.7	-0.1	0.31	0.31	0.01
57	153.3	4.2	4.3	-0.1	0.30	0.31	-0.01
54	146.7	3.8	3.9	-0.1	0.27	0.27	0.01
51	140.0	3.4	3.5	-0.1	0.26	0.27	-0.01
48	133.3	3.1	3.1	-0.1	0.23	0.23	0.01
45	126.7	2.7	2.8	-0.1	0.23	0.23	-0.01
42	120.0	2.4	2.5	-0.1	0.20	0.20	0.01
39	113.3	2.2	2.2	-0.1	0.20	0.20	0.00
36	106.7	1.9	1.9	-0.1	0.17	0.17	0.01
33	100.0	1.6	1.7	-0.1	0.16	0.16	0.00
30	90.0	1.3	1.3	-0.1	0.13	0.13	0.01
27	80.0	1.0	1.1	-0.1	0.12	0.12	0.00
24	70.0	0.8	0.8	0.0	0.10	0.10	0.01
21	60.0	0.6	0.6	0.0	0.08	0.09	0.00
18	50.0	0.4	0.4	0.0	0.07	0.07	0.00
15	40.0	0.3	0.3	0.0	0.06	0.06	0.00
12	30.0	0.2	0.2	0.0	0.04	0.04	0.00
9	20.0	0.1	0.1	0.0	0.03	0.03	0.00
6	10.0	0.0	0.0	0.0	0.01	-0.01	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

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**Section L: STRENGTH ASSESSMENT SORTED DATA**

Load Combination		Max Envelope									
Wind Direction		Maximum									
Sec	Pnl	Elev.	MType	Desc.	Len	kl/r	Gov.	Gov.	Max	Max	Asses.
		(ft)			(ft)		comp.	tens.	Compr.	Tens.	Ratio
							cap.	cap.	(Kips)	(Kips)	
							(Kips)	(Kips)			
12	3	250.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	1.1	0.9	0.02
12	2	245.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	6.6	3.3	0.12
12	1	240.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	17.1	13.7	0.30
11	4	235.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	26.7	22.9	0.32
11	3	230.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	40.8	34.7	0.49
11	2	225.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	58.0	51.4	0.70
11	1	220.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	73.3	66.5	0.89
10	3	213.33	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	92.1	82.5	0.57
10	2	206.67	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	106.5	96.3	0.66
10	1	200.00	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	121.6	109.2	0.76
9	3	193.33	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	137.2	123.6	0.81
9	2	186.67	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	150.4	136.2	0.89
9	1	180.00	Leg	PIPE 5.563x0.258	6.68	42.6	169.4	193.5	162.8	147.9	0.96
8	3	173.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	173.5	157.9	0.72
8	2	166.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	183.8	167.3	0.77
8	1	160.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	192.9	175.7	0.81
7	3	153.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	201.8	183.7	0.84
7	2	146.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	210.0	191.0	0.88
7	1	140.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	218.0	198.1	0.91
6	3	133.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	225.3	204.4	0.94
6	2	126.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	232.5	210.6	0.97
6	1	120.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	239.0	216.2	1.00
5	3	113.33	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	246.0	222.1	0.90
5	2	106.67	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	252.5	227.6	0.92
5	1	100.00	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	259.5	233.4	0.94
4	2	90.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.3	330.3	267.3	239.8	0.88
4	1	80.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.3	330.3	277.3	248.0	0.91
3	2	70.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	285.7	254.7	0.94
3	1	60.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	294.6	261.6	0.97
2	3	50.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	302.8	267.8	0.78
2	2	40.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	312.1	274.7	0.81
2	1	30.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	320.9	281.2	0.83
1	3	20.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	330.0	287.8	0.85
1	2	10.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	338.7	294.0	0.88
1	1	0.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	347.6	300.3	0.90
12	3	250.00	Diag	L1 3/4x1 3/4x1/8	6.90	106.8	10.5	7.1	1.6	1.6	0.22
12	2	245.00	Diag	L1 3/4x1 3/4x1/8	6.91	106.9	10.5	7.1	3.8	3.8	0.54
12	1	240.00	Diag	L1 3/4x1 3/4x1/8	6.92	107.1	10.5	7.1	4.0	3.9	0.55
11	4	235.00	Diag	L1 3/4x1 3/4x1/8	6.93	106.3	10.6	7.1	4.1	4.1	0.58
11	3	230.00	Diag	L1 3/4x1 3/4x1/8	6.95	106.5	10.6	7.1	6.3	6.3	0.88
11	2	225.00	Diag	L1 3/4x1 3/4x1/8	6.96	106.6	10.5	7.1	6.4	6.4	0.91
11	1	220.00	Diag	L1 3/4x1 3/4x1/8	6.97	106.8	10.5	7.1	6.6	6.5	0.92
10	3	213.33	Diag	L1 3/4x1 3/4x3/16	8.47	135.7	9.6	10.7	5.9	5.9	0.61
10	2	206.67	Diag	L1 3/4x1 3/4x3/16	8.91	144.4	8.5	10.7	5.1	5.0	0.60
10	1	200.00	Diag	L1 3/4x1 3/4x3/16	9.38	153.5	7.5	10.7	5.9	5.9	0.79
9	3	193.33	Diag	L1 3/4x1 3/4x3/16	9.87	160.2	6.9	10.7	6.0	6.0	0.86
9	2	186.67	Diag	L1 3/4x1 3/4x3/16	10.37	169.6	6.2	10.7	5.5	5.5	0.90
9	1	180.00	Diag	L1 3/4x1 3/4x3/16	10.89	179.2	5.5	10.7	5.2	5.2	0.93
8	3	173.33	Diag	L2x2x3/16	11.43	164.5	7.5	11.8	4.9	4.9	0.66
8	2	166.67	Diag	L2x2x3/16	11.97	173.2	6.8	11.8	4.7	4.7	0.70
8	1	160.00	Diag	L2x2x3/16	12.53	182.0	6.1	11.8	4.6	4.6	0.75
7	3	153.33	Diag	L2 1/2x2 1/2x3/16	13.10	151.7	11.2	14.1	4.5	4.5	0.40
7	2	146.67	Diag	L2 1/2x2 1/2x3/16	13.68	158.9	10.2	14.1	4.4	4.4	0.43
7	1	140.00	Diag	L2 1/2x2 1/2x3/16	14.27	166.2	9.3	14.1	4.4	4.4	0.47

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6	3	133.33	Diag	L2 1/2x2 1/2x3/16	14.87	173.9	8.5	14.1	4.1	4.1	0.49
6	2	126.67	Diag	L2 1/2x2 1/2x3/16	15.49	181.7	7.8	14.1	4.1	4.1	0.53
6	1	120.00	Diag	L2 1/2x2 1/2x3/16	16.12	189.4	7.2	14.1	4.2	4.1	0.58
5	3	113.33	Diag	L2 1/2x2 1/2x3/16	16.74	176.8	8.2	18.8	4.4	4.5	0.54
5	2	106.67	Diag	L2 1/2x2 1/2x3/16	17.35	182.6	7.7	18.8	4.6	4.5	0.59
5	1	100.00	Diag	L2 1/2x2 1/2x3/16	17.97	188.4	7.3	18.8	4.6	4.6	0.63
4	2	90.00	Diag	L3x3x3/16	20.18	179.1	9.7	21.1	5.0	5.0	0.52
4	1	80.00	Diag	L3x3x3/16	21.05	186.0	9.0	21.1	5.0	5.1	0.56
3	2	70.00	Diag	L3x3x3/16	21.97	193.5	8.3	21.1	4.7	4.4	0.56
3	1	60.00	Diag	L3x3x3/16	22.93	201.0	7.7	21.1	4.5	4.6	0.59
2	3	50.00	Diag	L3 1/2x3 1/2x1/4	23.86	180.6	14.8	31.1	5.3	5.2	0.36
2	2	40.00	Diag	L3 1/2x3 1/2x1/4	24.77	186.8	13.9	31.1	5.4	5.4	0.39
2	1	30.00	Diag	L3 1/2x3 1/2x1/4	25.69	192.9	13.0	31.1	5.5	5.5	0.43
1	3	20.00	Diag	L4x4x1/4	26.62	175.5	18.0	34.1	5.6	5.6	0.31
1	2	10.00	Diag	L4x4x1/4	27.55	180.9	17.0	34.1	5.7	5.7	0.34
1	1	0.00	Diag	L4x4x1/4	28.48	186.3	16.0	34.1	5.8	5.8	0.36
12	3	250.00	Horiz	L1 3/4x1 3/4x3/16	4.75	145.7	8.4	10.7	1.0	1.1	0.12
10	3	213.33	Horiz	L1 3/4x1 3/4x3/16	4.87	145.1	8.4	10.7	2.1	1.8	0.25

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**Section M: SECTION PROPERTIES DATA**

Sec	Pan	Memb.	Steel	Conn.	Bolts	Bolt	Bolt	End	Gusset	kl/r	Comp	Tens	Bolt	Bear.	Block
		Type	Grade	Type	Bolts	Size	Grade	Dist.	Thick.		Cap.	Cap.	Cap.	Cap.	Shear
						(in)		(in)	(in)		(Kips)	(Kips)	(Kips)	(Kips)	(Kips)
12	3	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
12	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.8	10.5	11.9	17.2S	9.8	7.1
12	3	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.7	8.4	17.4	17.2S	14.7	10.7
12	2	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
12	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.9	10.5	11.9	17.2S	9.8	7.1
12	1	Leg	A500 gr.CS	Tension	4	0.750	A325X	1.800	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
12	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	107.1	10.5	11.9	17.2S	9.8	7.1
11	4	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
11	4	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.3	10.6	11.9	17.2S	9.8	7.1
11	3	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
11	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.5	10.6	11.9	17.2S	9.8	7.1
11	2	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
11	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.6	10.5	11.9	17.2S	9.8	7.1
11	1	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
11	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	106.8	10.5	11.9	17.2S	9.8	7.1
10	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
10	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	135.7	9.6	17.4	17.2S	14.7	10.7
10	3	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.1	8.4	17.4	17.2S	14.7	10.7
10	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
10	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	144.4	8.5	17.4	17.2S	14.7	10.7
10	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
10	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	153.5	7.5	17.4	17.2S	14.7	10.7
9	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
9	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	160.2	6.9	17.4	17.2S	14.7	10.7
9	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
9	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	169.6	6.2	17.4	17.2S	14.7	10.7
9	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	42.6	169.4	193.5	275.3T	N/A	N/A
9	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	179.2	5.5	17.4	17.2S	14.7	10.7
8	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
8	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	164.5	7.5	20.7	17.2S	14.7	11.8
8	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
8	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	173.2	6.8	20.7	17.2S	14.7	11.8
8	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
8	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	182.0	6.1	20.7	17.2S	14.7	11.8
7	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.4	275.0	330.3T	N/A	N/A
7	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	151.7	11.2	27.7	17.2S	14.7	14.1
7	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.4	275.0	330.3T	N/A	N/A
7	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	158.9	10.2	27.7	17.2S	14.7	14.1
7	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.4	275.0	330.3T	N/A	N/A
7	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	166.2	9.3	27.7	17.2S	14.7	14.1
6	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	173.9	8.5	27.7	17.2S	14.7	14.1
6	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	181.7	7.8	27.7	17.2S	14.7	14.1
6	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	189.4	7.2	27.7	17.2S	14.7	14.1
5	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
5	3	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	176.8	8.2	27.7	34.5S	25.7	18.8
5	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
5	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	182.6	7.7	27.7	34.5S	25.7	18.8
5	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A

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5	1	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	188.4	7.3	27.7	34.5S	25.7	18.8
4	2	Leg	A500 gr.CS Tension 6	1.000	A325X 2.400	N/A	54.6	304.3	378.5	330.3T	N/A	N/A
4	2	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	179.1	9.7	34.6	34.5S	25.7	21.1
4	1	Leg	A500 gr.CS Tension 6	1.000	A325X 2.400	N/A	54.6	304.3	378.5	330.3T	N/A	N/A
4	1	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	186.0	9.0	34.6	34.5S	25.7	21.1
3	2	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
3	2	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	193.5	8.3	34.6	34.5S	25.7	21.1
3	1	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
3	1	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	201.0	7.7	34.6	34.5S	25.7	21.1
2	3	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
2	3	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	180.6	14.8	54.8	34.5S	34.1	31.1
2	2	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
2	2	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	186.8	13.9	54.8	34.5S	34.1	31.1
2	1	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
2	1	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	192.9	13.0	54.8	34.5S	34.1	31.1
1	3	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
1	3	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	175.5	18.0	63.9	34.5S	34.1	34.2
1	2	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
1	2	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	180.9	17.0	63.9	34.5S	34.1	34.2
1	1	Leg	A500 gr.CS Tension 6	1.500	A325X 3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
1	1	Diag	A529 gr.50 Bolted 2	0.625	A325X 1.125	0.375	186.3	16.0	63.9	34.5S	34.1	34.2



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**Section N: LEG REACTION DATA**

Load Combination	Max Envelope				
Wind Direction	Maximum				
	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	351.41	302.85			28.80



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**Section O: TOWER FOUNDATION DATA**

Load Combination                      Max Envelope  
 Wind Direction                        Maximum

Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
47.53	23.19	40.17	46.38	6730.18	-2.57	-3883.94	7770.48
47.53	23.19	40.17	46.38	6730.18	-2.57	-3883.94	7770.48

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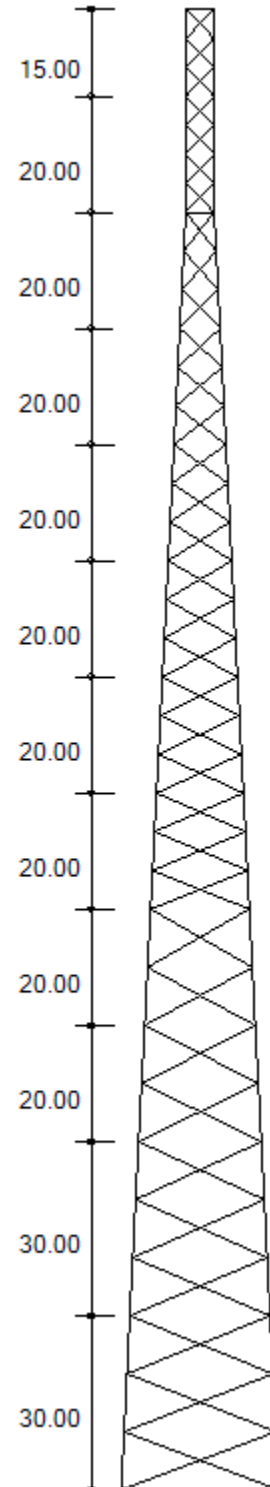
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Engineer: AS

**DESIGN SPECIFICATION**

Sct.	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	289.97	325.97
2	30.00	253.97	289.97
3	20.00	228.24	253.97
4	20.00	204.24	228.24
5	20.00	180.24	204.24
6	20.00	155.32	180.24
7	20.00	131.32	155.32
8	20.00	107.32	131.32
9	20.00	83.32	107.32
10	20.00	58.40	83.32
11	20.00	57.53	58.40
12	15.00	56.99	57.53



**MAXIMUM BASE REACTIONS**

Download (Kips)	351.4
Uplift (Kips)	302.8
Shear (Kips)	28.8



Customer: TAG TOWERS, LLC  
 Project: 255 FT RTL TOWER  
 Site: WILLOW SHADE WEST, KY  
 Engr. File: 245661  
 Build Code: ANSI/TIA-222-H-2016



# Mat Foundation

ver.3.0.4

## Design Parameters

Description	Load Case					
	1	2	3	4	5	Service
Total Moment, ft-kips	7,769.89	7,770.48	1,195.01	381.98	381.21	2,583.94
Total Shear, kips	46.37	46.38	6.67	1.95	1.95	15.67
Total Tower Wt, kips	63.36	47.53	144.16	63.33	47.50	52.78
Max. Uplift, kips	297.60	302.85	2.74	.00	.35	88.58
Shear, kips	25.42	25.73	1.34	7.93	.31	7.93
Max Download, kips	351.41	346.15	98.43	37.34	32.03	127.43
Shear	28.80	28.50	6.82	2.40	2.10	10.35
Soil L.F.	1.20	0.90	1.20	1.20	0.90	1.00
Concrete L.F.	1.20	0.90	1.20	1.20	0.90	1.00

Foundation	
Ht. AGL, ft	0.50
Depth, ft.	5.25
Tower	
Face Width, ft	27.16
Offset, in	45.00
Soil	
Blow Count	N/A
Inplace Unit Wt, pcf	110.00
Submerged Unit Wt, pcf	60.00
Friction Angle, $\phi$ , deg.	30.00
Cohesion, ksf	N/A
Uplift Angle, deg.	30.00
Water Depth, ft	None
Ult Bearing Capacity, ksf	14.00

Mat	
Thickness, ft	1.50
Width, ft	34.00
EA, in	13.00
Batter, in/ft	0.00

Pier	
Height, ft	4.25
Diameter, ft	4.00
No. Piers	3
Shape	Round

Anchor Bolts	
Diameter, in	1.5000
No.	6
Length, in	74.00
Bolt Circle, in	20.00
Projection, in	9.00

Pocket	
Diameter, in	N/A
Thickness, ft	N/A

Concrete	
28 Day Strength, ksi	4.50
Dry Unit Wt, pcf	150.00
Wet Unit Wt, pcf	88.00

Rebar Fy	
Vertical, ksi	60.00
Circular, ksi	60.00
Horizontal, ksi	60.00

## Results

$\phi M_N$  – Parallel Axis                    11,551.90    ft-kips  
 $\phi M_N$  – Diagonal Axis                    12,719.58    ft-kips  
 Moment – Interaction Ratio                    0.714  
 $\phi V_N$  – Lateral Load                    188.59    kips  
 Lateral Load – Interaction Ratio                    0.246

Final Mat Dimension        : 34.00 x 34.00 x 1.50 ft. thick w/ (3) 4.00 ft. Dia. Piers

Final Pocket Dimension    : Pockets not required

Total Volume of Concrete : 70.2 yd<sup>3</sup>

Designed By: AS  
 Date: 20 March, 2024 @ 09:15 AM

ENGINEERING  
 CHECKED BY: SY  
 03/20/2024

Customer: TAG TOWERS, LLC  
 Project: 255 FT RTL TOWER  
 Site: WILLOW SHADE WEST, KY  
 Engr. File: 245661  
 Build Code: ANSI/TIA-222-H-2016



# Mat Foundation

ver.3.0.4

## OTM Capacity

Controlling Load Case: 2 [Wind w/Min. Dead Load]  
 Foundation Width = 34.00 ft  
 $M_U = 8,247.2$  ft-kips

	$\phi M_N$ , ft-kips	x, ft	N	$\sigma_{ur}$
Parallel	11,551.9	3.400	0.100	8.56
Diagonal	12,719.6	10.752	0.224	8.56

$\phi M_N = 11,551.90$  ft-kips      IRatio = 0.714  
 $\phi V_N = 188.59$  kips      IRatio = 0.246

## Mat Design

$\gamma_c = 121.43$  pcf

Exterior Slab	x, ft	N	$\sigma_R$ , ksf	$P_s$ kips	$P_{su}$ kips	Moment, ft-kips/ft		Shear, kips/ft	
						DownLoad Side	Uplift Side	Download Side	Uplift Side
Parallel	11.857	0.349	1.82	23.53	0.00	7.27	6.75	4.26	3.28
Diagonal	19.455	0.405	1.94	23.53	0.00	52.73	34.42	12.38	7.55

Interior Slab	Moment, ft-kips/ft			Shear, kips/ft		
	DownLoad Side	Uplift Side	Download Side	Uplift Side	Soil Pressure Termination	
	28.98	41.56	5.59	5.72	5.10	

Punching Shear	Download			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
$b_o$ , ft	18.51	16.10	13.46	15.85	14.77	12.79	2-Way Shear
$V_{su}$ , psi	135.85	163.20	204.65	132.67	148.15	180.93	
$\phi V_c$ , psi	228.08	228.08	205.84	228.08	228.08	210.61	
IR	0.60	0.72	0.99	0.58	0.65	0.86	
$M_{ut}$ , ft-kips	73.4			65.6			Moment transfer to slab
$B_e$ , ft	7.7			7.3			
$M_u$ , ft-kips/ft	9.6			9.0			
Edge Distances: a = 5.07 ft.    b = 3.42 ft.    c = 5.41 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	52.73	0.970
Slab Shear, kips/ft	12.38	0.696
Punching Shear, psi	204.65	0.994
Soil Bearing Required, $\sigma_{UR}$ , ksf	2.59	0.185

Mat Reinforcement	
Min. Steel Area (Strength)	.727 in <sup>2</sup> /ft.
Min. Steel Area (Temperature)	.194 in <sup>2</sup> /ft.
Steel Strain Actual	0.013
Minimum Steel Strain Required	0.005

58 - #6 Horizontal bars equally spaced @7.05 in., each way, top and bottom, total of 232,  $A_s = 0.754$  in<sup>2</sup>/ft

Designed By: AS  
 Date: 20 March, 2024 @ 09:15 AM

Customer: TAG TOWERS, LLC  
Project: 255 FT RTL TOWER  
Site: WILLOW SHADE WEST, KY  
Engr. File: 245661  
Build Code: ANSI/TIA-222-H-2016



# Mat Foundation

ver.3.0.4

## Pier Design

Controlling Load Case: 2 [Wind w/Min. Dead Load]

C = 346.15 kips	Vc = 28.50 kips	Mc = 121.13 ft-kips
T = 302.85 kips	Vt = 25.73 kips	Mt = 109.35 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 48.00 in.	Ds = 39.00 in.	F'c = 4.50 ksi
U = 1.00	Irs = Round	

\*\*\* NOTE: Pier cross section is Round \*\*\*

## SUMMARY OF ANALYSIS

Minimum area of steel required	= 9.213 in <sup>2</sup>	(Rhomin = 0.0051)
Area of steel provided.	= 9.621 in <sup>2</sup>	(Rhoactual = 0.0053)
Maximum steel area limit	= 144.765 in <sup>2</sup>	(Rhomax = 0.0800)

(16) #7 Vertical Bars equally spaced w/ #4 Circular Ties @ 6" on center.

## CIRCULAR TIE DATA

$V_u < 0.85 * V_c / 2$ , shear reinforcement is not required

Use maximum tie spacing specified in ACI 318,  
Section 7.10.5 for compression reinforcement.

## DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

Modifier for tension development = 1.000  
Modifier for compression development = 0.173  
REQUIRED Ld = MODIFIER \* BASIC Ld \* ACI 318 MODIFIERS, (12 in. min.)

Designed By: AS  
Date: 20 March, 2024 @ 09:15 AM

File no : 245661

Customer: **TAG TOWERS, LLC**

Date 03/20/24

By: AS

Description: **255 FT RTL TOWER**

Page 1

Chk: \_\_\_\_\_

ENGINEERING  
CHECKED BY: SY  
03/20/2024

**WILLOW SHADE WEST, KY** Ver. 03/06/2024

**FACTORED REACTIONS / LEG**

Tower Type: RT

COMPRESSION = 351.41 k  
 UPLIFT = 302.85 k ( 6 ) - 1.5 " dia 74 " A.B. per leg  
 SHEAR = 28.80 k  $f'_c = 4,500$  psi  
 UPLIFT FROM SOIL HEAVE = 0.00 k  $f_y = 60,000$  psi

**SOIL PARAMETERS**

- A) Depth neglected for skin friction = Top 3.0 ft
- B) Average ultimate skin shear for uplift:  
 3.0 ft to 4.0 ft depth = 1700 psf, and 4.0 ft to 6.0 ft depth = 2400 psf, and 6.0 ft to 9.0 ft depth = 2100 psf, and 9.0 ft to 14.0 ft depth = 700 psf, and 14.0 ft to 17.0 ft depth = 5000 psf.
- C) Average ultimate skin shear for download:  
 3.0 ft to 4.0 ft depth = 1700 psf, and 4.0 ft to 6.0 ft depth = 2400 psf, and 6.0 ft to 9.0 ft depth = 2100 psf, and 9.0 ft to 14.0 ft depth = 700 psf, and 14.0 ft to 17.0 ft depth = 5000 psf.
- D) Ultimate net end bearing at 17.0 ft = 40.00 ksf.
- E) Groundwater table below foundation depth.

**USE 4'- 0" DIAMETER AND 17'- 0" DEEP DRILLED PIER WITH 0'- 6" CAP**

Perimeter = 12.57 ft Area = 12.57 ft<sup>2</sup>

Total Download = 351.41 + [1.2 x 0.15 - 0.75 x 0.120] x 17 x 12.57 = 371.2 k

Tension Capacity = 12.57 x (17.5 x 0.15 + 0.0 x 0.09) x 0.90 + 12.57 x  
 (1.700 x 1.0 + 2.400 x 2.0 + 2.100 x 3.0 + 0.700 x 5.0 + 5.000 x 3.0) x 0.75 =

29.7 + 295.1 = 324.8 k  
 324.8 >= 302.85 **OK**

Comp. Capacity = 12.57 x 40.00 x 0.75 + 12.57 x  
 (1.700 x 1.0 + 2.400 x 2.0 + 2.100 x 3.0 + 0.700 x 5.0 + 5.000 x 3.0) x 0.75 =

377.1 + 295.1 = 672.2 k  
 672.2 >= 371.2 **OK**

**LATERAL - SEE ATTACHED CALCULATIONS USING WIGGINS METHOD**

Max M = 192.44 ft-k Max V = 35.35 k

**REINFORCEMENT - SEE ATTACHED SHAFT PROGRAM**

USE 14 - # 8 BARS VERTICAL WITH \*  
 # 4 TIES AT 6" IN TOP 7.0 FT AND AT  
 12 " IN REST OF PIER

**STEEL AREA = 11.00 in<sup>2</sup> OK**  
 {36.0 in Cage Diameter}

**CONCRETE VOL. = 12.57 x 17.5 / 27 = 8.1 cu yds / pier**

# Drilled Pier Analysis

\*\*\*\*\*  
 \*\* WIGGINS METHOD \*\*  
 \*\*\*\*\*  
 \*\* DETERMINE MAXIMUM LATERAL SOIL PRESSURE \*\*  
 \*\* AND MAXIMUM MOMENT IN THE SHAFT FOR \*\*  
 \*\* A DRILLED PIER FOUNDATION \*\*  
 \*\*\*\*\* Wed Mar 20 09:38:34 2024 \*\*\*\*\*  
 Ver. 2.3 NT

FILE NO.- 245661  
 ENGR.- AS  
 DESCR.- TAG TOWERS, LLC 255 FT RTL TOW

### FORMULAS USED

$$S1 = \frac{6 \cdot P \cdot (1+N)}{D \cdot L \cdot (1-N) \cdot (1-N)}$$

$$L = (MA/P) + R + E$$

$$S2 = \frac{(N+3) \cdot (N+3) \cdot S1}{8 \cdot (N+1) \cdot (N+2)}$$

$$NL = (MA/P) + R + G$$

$$K = \frac{1 - (N \cdot N)}{2 \cdot (2+N)}$$

$$N = NL / L$$

$$Y = \frac{L \cdot (1-K) - NL}{2}$$

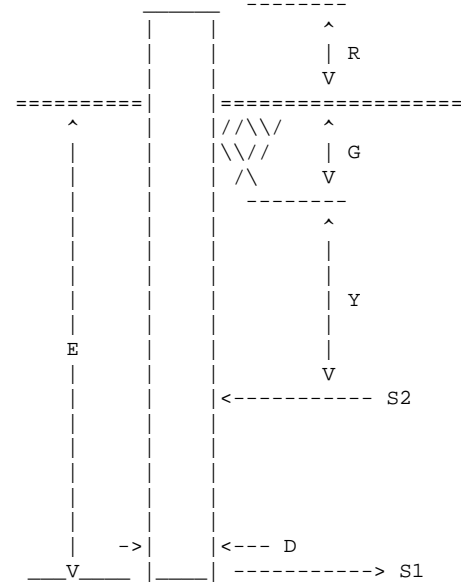
$$SP1 = S1 / E$$

$$M = P \cdot (NL + 5/8 \cdot Y)$$

$$SP2 = S2 / (Y + G)$$

$$V = S1 \cdot D \cdot K \cdot L / 2 \quad \text{or}$$

P whichever is greater



Diameter of Pier = D = 4.00 ft  
 Projection Above Grade = R = .50 ft  
 Embedment Depth = E = 17.00 ft  
 Depth of Soil Ignored = G = 3.00 ft

Equivalent Length of Pier = L = 17.50 ft  
 Length for NO Soil Resistance = NL = 3.50 ft  
 Applied Moment at Top of Pier = MA = .00 ft-k  
 Shear at Top of Pier = P = 28.80 kips

### MAXIMUM LATERAL SOIL PRESSURES

### MAXIMUM VALUES IN SHAFT

K = .2182  
 Y = 5.09 ft  
 S1 = 4.629 ksf  
 S2 = 2.244 ksf  
 SP1 = 272 psf/ft  
 SP2 = 277 psf/ft

M = 192.44 ft-k  
 V = 35.35 kips

Drilled Pier Analysis

245661  
TAG TOWERS, LLC 2

\*\*\*\*\*  
\*\*  
\*\* COMPARISION DATA \*\*  
\*\*  
\*\*\*\*\*

BROMS ----->

SAND  
PHI = 30.0 degrees  
DENSITY = 100.00 pcf  
E = 15.34 ft  
Max. M = 209.41 ft-k  
Max. V = 84.55 kips  
Ls = 11.222 ft

CLAY  
C = 1.00 ksf  
E = 14.44 ft  
Max. M = 210.24 ft-k  
Max. V = 61.52 kips

EIA REV. E NORMAL SOIL -----> E = 10.20 ft

EIA REV. F NORMAL SOIL -----> E = 12.71 ft

SHAFT REINFORCING PROGRAM VER. 91.7

=====

DESIGNED BY: AS  
 ENG. FILE NO.: 245661  
 DATE: 03/20/24

CUSTOMER: TAG TOWERS, LLC  
 DESCRIPTION: 255 FT RTL TOWERWILLOW SHADE WEST, KY

INPUT DATA

=====

C = 351.41 Kips	Vc = 35.35 Kips	Mc = 192.44 Ft-K
T = 302.85 Kips	Vt = 35.35 Kips	Mt = 192.44 Ft-K
Fy = 60.00 Ksi	Fyt = 60.00 Ksi	L.F. = 1.00
H = 48.00 In.	Ds = 36.00 In.	F'c = 4.50 Ksi
U = 1.00	Irs = 1	

\*\*\* SHAFT CROSS SECTION IS ROUND \*\*\*

SUMMARY OF ANALYSIS

=====

Minimum area of steel req'd. = 10.54 sq.in. (Rhomin = 0.0058)  
 Maximum steel area limit = 144.76 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA

=====

$V_u < 0.85 \cdot V_c / 2$ , shear reinforcement is not required.

Use maximum tie spacing specified in A.C.I. 318-83,  
 Section 7.10.5 for compression reinforcement.

DEVELOPMENT LENGTH MODIFIERS FOR TENSION AND COMPRESSION BAR DEVELOPMENT

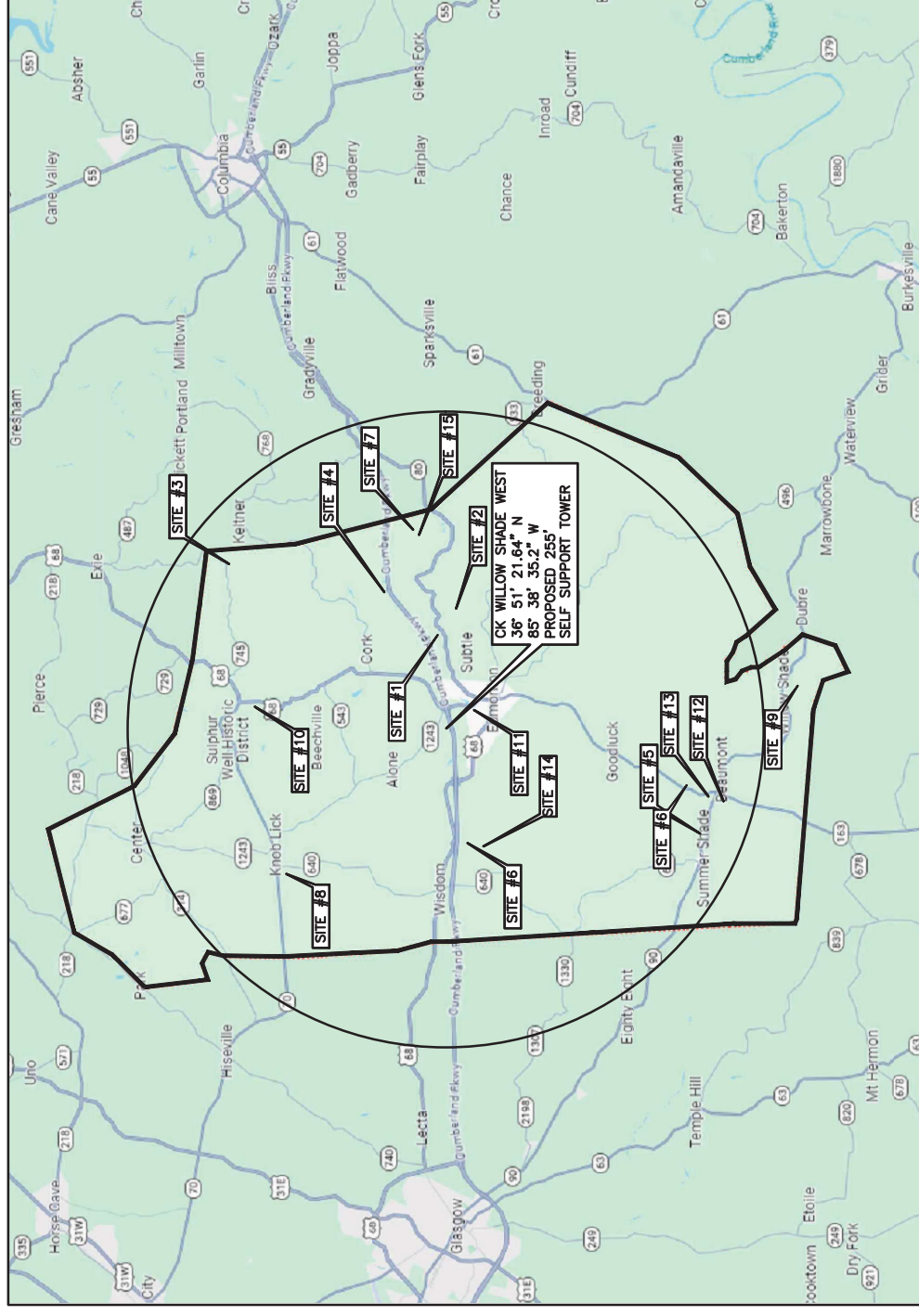
=====

DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT =	.313
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)	
DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT =	.339
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)	

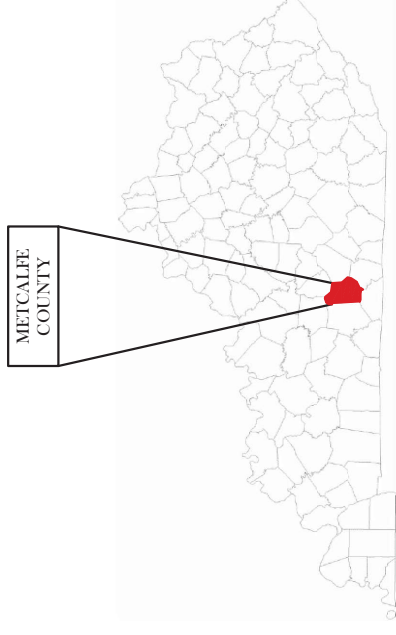
CELLCO  
PARTNERSHIP D/B/A



**CITY OF SUMMER SHADE  
METCALFE COUNTY, KENTUCKY  
VERIZON WIRELESS SITE CK  
WILLOW SHADE WEST  
TOWER LOCATION EXHIBIT**



MAP NOT TO SCALE



**KENTUCKY**

SITE INFORMATION:  
03-28-24

**CK WILLOW SHADE  
WEST**

6981 KY-90  
SUMMER SHADE, KY 42166  
METCALFE COUNTY

SITE NUMBER:  
723518

SITE NAME:  
CK WILLOW SHADE WEST

PID NUMBER:  
16933259

DRAWN BY: RC  
CHECKED BY: PL  
DATE: 11.29.23

SHEET TITLE:  
PSC MAP

SHEET NUMBER:  
PSC-1

REV. DATE DESCRIPTION  
A 11/29/23 ISSUED FOR REVIEW  
B 01/31/24 ISSUED FOR REVIEW  
C 02/23/24 ISSUED FOR CONSTRUCTION  
D 03/28/24 ISSUED FOR CONSTRUCTION



TAG TOWERS, LLC  
108 FORBES COURT, SUITE 1  
RICHMOND, KY 40475  
859.544.5000 (PH)

**LAB**  
49030 Pontiac Trail, Suite 100  
Wixom, Michigan 48393  
PHONE: (248) 705-9212

- SITE#1: FCC# 1007823, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC, 37° 00' 19.9"N, 085° 34' 34.2"W
- SITE#2: FCC# 1043059, CELLCO PARTNERSHIP, 36° 59' 41.0"N, 085° 33' 38.0"W
- SITE#3: FCC# 1044821, KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS, 37° 06' 00.0"N, 085° 32' 10.1"W
- SITE#4: FCC# 1048812, HART COUNTY COMMUNICATIONS INC, 37° 01' 32.0" N, 085° 33' 20.0"W
- SITE#5: FCC# 1214425, TENNESSEE VALLEY AUTHORITY, 36° 52' 56.0"N, 085° 41' 16.8"W
- SITE#6: FCC# 1252327, SBA TOWERS VII, LLC, 36° 59' 38.2"N, 085° 41' 15.3"W
- SITE#7: FCC# 1252869, SBA TOWERS VII, LLC, 37° 01' 04.2"N, 085° 30' 53.2"W
- SITE#8: FCC# 1260710, CELLCO PARTNERSHIP, 37° 04' 25.0"N, 085° 42' 47.2"W
- SITE#9: FCC# 1261655, CELLCO PARTNERSHIP, 36° 50' 21.2"N, 085° 36' 18.3"W
- SITE#10: FCC# 1266731, CELLCO PARTNERSHIP, 37° 05' 29.1"N, 085° 36' 52.2"W
- SITE#11: FCC# 1290351, AMERICAN TOWERS LLC, 36° 59' 20.7"N, 085° 36' 56.3"W
- SITE#12: FCC# 1309696, CTI ASSETS II, LLC, 36° 52' 34.0"N, 085° 40' 01.6"W
- SITE#13: FCC# 1310242, VB BTS, LLC, 36° 52' 43.7"N, 085° 39' 53.1"W
- SITE#14: FCC# 1316243, UNITI TOWERS LLC, 36° 59' 34.3"N, 085° 41' 17.1"W
- SITE#15: FCC# 1319787, TILLMAN INFRASTRUCTURE, LLC, 37° 00' 56.4"N, 085° 31' 05.3"W





Archive Search Results Form 7460-1 for ASN 2023-ASO-25098-OE

Overview				
<b>Study (ASN):</b>	2023-ASO-25098-OE			
<b>Prior Study:</b>				
<b>Status:</b>	Determined			
<b>Letters:</b>	<a href="#">Determination</a>			
<b>Received Date:</b>	08/08/2023			
<b>Entered Date:</b>	08/08/2023			
<b>Completion Date:</b>	11/01/2023			
<b>Expiration Date:</b>	05/01/2025			
<b>Map:</b>	<a href="#">View Map</a>			
<b>Supplemental Form 7460-2:</b> Please <a href="#">login</a> to add a Supplemental Form 7460-2.				
Sponsor Information				
<b>Sponsor:</b>	TAG Towers, LLC			
<b>Attention Of:</b>	David Ginter			
<b>Address:</b>	108 Forbes Court			
<b>Address2:</b>	Suite 1			
<b>City:</b>	Richmond			
<b>State:</b>	KY			
<b>Postal Code:</b>	40475			
<b>Country:</b>	US			
<b>Phone:</b>	859-544-5000			
<b>Fax:</b>				
Sponsor's Representative Information				
<b>Representative:</b>	TAG Towers, LLC			
<b>Attention Of:</b>	David Ginter			
<b>Address:</b>	108 Forbes Court			
<b>Address2:</b>	Suite 1			
<b>City:</b>	Richmond			
<b>State:</b>	KY			
<b>Postal Code:</b>	40509			
<b>Country:</b>	US			
<b>Phone:</b>	859-544-5000			
<b>Fax:</b>				
Construction Info				
<b>Notice Of:</b>	CONSTR			
<b>Duration:</b>	PERM (Months: 0 Days: 0)			
<b>Work Schedule:</b>				
<b>Date Built:</b>				
Structure Summary				
<b>Structure Type:</b>	Antenna Tower			
<b>Structure Name:</b>	Willow Shade West			
<b>FCC Number:</b>	1327380 <a href="#">FCC ASR Registration</a>			
Structure Details				
<b>Latitude (NAD 83):</b>	36° 51' 21.64" N			
<b>Longitude (NAD 83):</b>	85° 38' 35.20" W			
<b>Horizontal Datum:</b>	NAD 83			
<b>Survey Accuracy:</b>	1A			
<b>Marking/Lighting:</b>	Dual-red and medium intensity			
<b>Other Description:</b>				
<b>Current Marking/Lighting:</b>	N/A Proposed Structure			
<b>Current Marking/Lighting Other Description:</b>				
<b>Name:</b>				
<b>City:</b>	Summer Shade			
<b>State:</b>	KY			
<b>Nearest County:</b>	Metcalfe			
<b>Nearest Airport:</b>	2M0			
<b>Distance to Structure:</b>	46308.57 feet			
<b>On Airport:</b>	No			
<b>Direction to Structure:</b>	3.36°			
<b>Description of Location:</b>	Off of KY Hwy 90			
<b>Description of Proposal:</b>	Proposed telecommunications tower			
Height and Elevation				
	<b>Proposed</b>	<b>DNE</b>	<b>DET</b>	
<b>Site Elevation:</b>	956			
<b>Structure Height:</b>	259	0	<b>259</b>	
<b>Total Height (AMSL):</b>	1215	0	<b>1215</b>	
Frequencies				
<b>Low Freq</b>	<b>High Freq</b>	<b>Unit</b>	<b>ERP</b>	<b>Unit</b>
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W

1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W

Previous [Back to Search Result](#) Next



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 Federal Aviation Administration  
 Southwest Regional Office  
 Obstruction Evaluation Group  
 10101 Hillwood Parkway  
 Fort Worth, TX 76177

Aeronautical Study No.  
 2023-ASO-25098-OE

Issued Date: 11/01/2023

David Ginter  
 TAG Towers, LLC  
 108 Forbes Court  
 Suite 1  
 Richmond, KY 40475

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:               Antenna Tower Willow Shade West  
 Location:               Summer Shade, KY  
 Latitude:                36-51-21.64N NAD 83  
 Longitude:              85-38-35.20W  
 Heights:                956 feet site elevation (SE)  
                               259 feet above ground level (AGL)  
                               1215 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Air Missions (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

**See attachment for additional condition(s) or information.**

This determination expires on 05/01/2025 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

**NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.**

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (718) 553-2611, or [angelique.eersteling@faa.gov](mailto:angelique.eersteling@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-25098-OE.

**Signature Control No: 595902269-603503498**

Angelique Eersteling  
Technician

( DNE )

Attachment(s)  
Additional Information  
Case Description  
Frequency Data  
Map(s)

cc: FCC

**BASIS FOR DECISION**

Part 77 authorizes the FAA to evaluate a structure or object's potential electromagnetic effects on air navigation, communication facilities, and other surveillance systems. It also authorizes study of impact on arrival, departure, and en route procedures for aircraft operating under visual or instrument flight rules, as well as the impact on airport traffic capacity at existing public use airports. Broadcast in the 3.7 to 3.98 GHz frequency (5G C band) currently causes errors in certain aircraft radio altimeters and the FAA has determined they cannot be relied upon to perform their intended function when experiencing interference from wireless broadband operations in the 5G C band. The FAA has adopted Airworthiness Directives for all transport and commuter category aircraft equipped with radio altimeters that prohibit certain operations when in the presence of 5G C band

This determination of no hazard is based upon those mitigations implemented by the FAA and operators of transport and commuter category aircraft, and helicopters operating in the vicinity of your proposed location. It is also based on telecommunication industry and FAA collaboration on acceptable power levels and other parameters as reflected in the FAA 5G C band evaluation process.

The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power output, locations, frequencies, and tilt angles for antenna that mitigate the hazard to aviation. As the telecommunication companies and FAA refine the tools and methodology, the allowable frequencies and power levels may change in the FAA 5G C band compatibility evaluation process. Therefore, your proposal will not have a substantial adverse effect on the safe and efficient use of the navigable airspace by aircraft provided the equipment and emissions are in compliance with the parameters established through the FAA 5G C band compatibility evaluation process.

Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

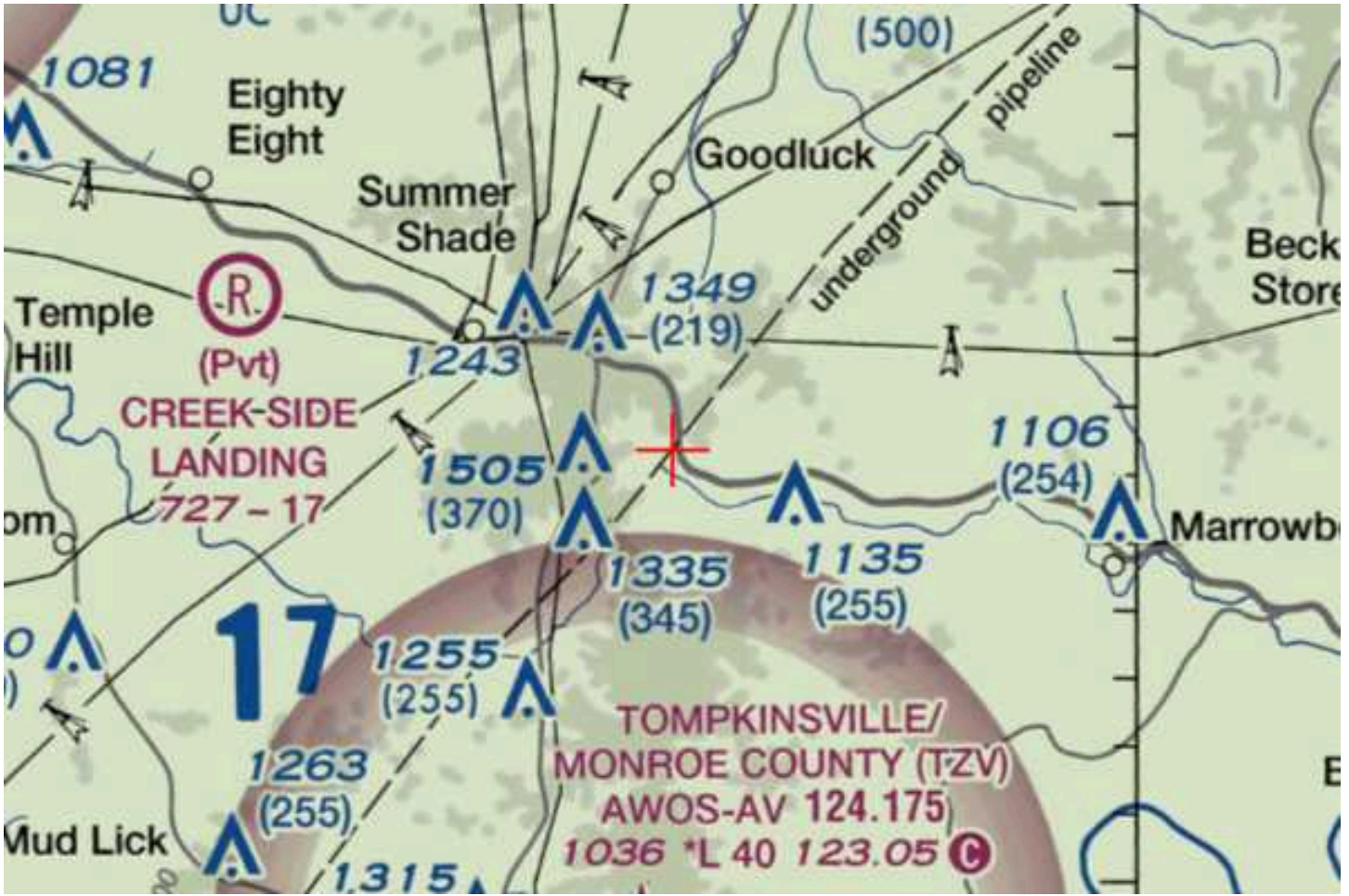
Proposed telecommunications tower

**Frequency Data for ASN 2023-ASO-25098-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W









KENTUCKY TRANSPORTATION CABINET  
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2  
Rev. 06/2020  
Page 2 of 2

**APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE**

<b>APPLICANT (name)</b> TAG TOWERS, LLC		<b>PHONE</b> 8595445000	<b>FAX</b> N/A	<b>KY AERONAUTICAL STUDY #</b>
<b>ADDRESS (street)</b> 108 Forbes Court, Suite 1		<b>CITY</b> Richmond		<b>STATE</b> KY
<b>APPLICANT'S REPRESENTATIVE (name)</b> David L Ginter		<b>PHONE</b> 8595445000	<b>FAX</b> N/A	<b>ZIP</b> 40475
<b>ADDRESS (street)</b> 108 Forbes Court, Suit 1		<b>CITY</b> Richmond		<b>STATE</b> KY
<b>APPLICATION FOR</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing		<b>WORK SCHEDULE</b> Start 5/30/24 End 8/30/24		
<b>DURATION</b> <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )				
<b>TYPE</b> <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		<b>MARKING/PAINTING/LIGHTING PREFERRED</b> <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other		
<b>LATITUDE</b> 36°51'21.64.N"		<b>LONGITUDE</b> 85°38'35.2.W"		<b>DATUM</b> <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other
<b>NEAREST KENTUCKY</b> City Summer Shade County Metcalfe		<b>NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT</b> Tompkinsville/Monroe County		
<b>SITE ELEVATION (AMSL, feet)</b> 956		<b>TOTAL STRUCTURE HEIGHT (AGL, feet)</b> 259		<b>CURRENT (FAA aeronautical study #)</b> 2023-ASO-25098
<b>OVERALL HEIGHT (site elevation plus total structure height, feet)</b> 1215		<b>PREVIOUS (FAA aeronautical study #)</b> N/A		
<b>DISTANCE (from nearest Kentucky public use or Military airport to structure)</b> Approximately 8.5 miles		<b>PREVIOUS (KY aeronautical study #)</b> N/A		
<b>DIRECTION (from nearest Kentucky public use or Military airport to structure)</b> Proposed tower site will be located north of the Tompkinsville airport				
<b>DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.)</b>				
<b>DESCRIPTION OF PROPOSAL</b> Proposed 255' self supporting telecommunications tower.				
<b>FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?)</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? filed on 8/8/23 and approved on 11/1/23				
<b>CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)</b>				
<b>PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)</b>				
<b>NAME</b> David L. Ginter	<b>TITLE</b> President	<b>SIGNATURE</b> 		<b>DATE</b> 3/11/24
<b>COMMISSION ACTION</b>		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC		
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<b>SIGNATURE</b>			<b>DATE</b>



Mail Processing Center  
 Federal Aviation Administration  
 Southwest Regional Office  
 Obstruction Evaluation Group  
 10101 Hillwood Parkway  
 Fort Worth, TX 76177

Aeronautical Study No.  
 2023-ASO-25098-OE

Issued Date: 11/01/2023

David Ginter  
 TAG Towers, LLC  
 108 Forbes Court  
 Suite 1  
 Richmond, KY 40475

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower Willow Shade West  
 Location: Summer Shade, KY  
 Latitude: 36-51-21.64N NAD 83  
 Longitude: 85-38-35.20W  
 Heights: 956 feet site elevation (SE)  
 259 feet above ground level (AGL)  
 1215 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

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- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

**See attachment for additional condition(s) or information.**

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**Signature Control No: 595902269-603503498**

Angelique Eersteling  
Technician

( DNE )

Attachment(s)  
Additional Information  
Case Description  
Frequency Data  
Map(s)

cc: FCC

**BASIS FOR DECISION**

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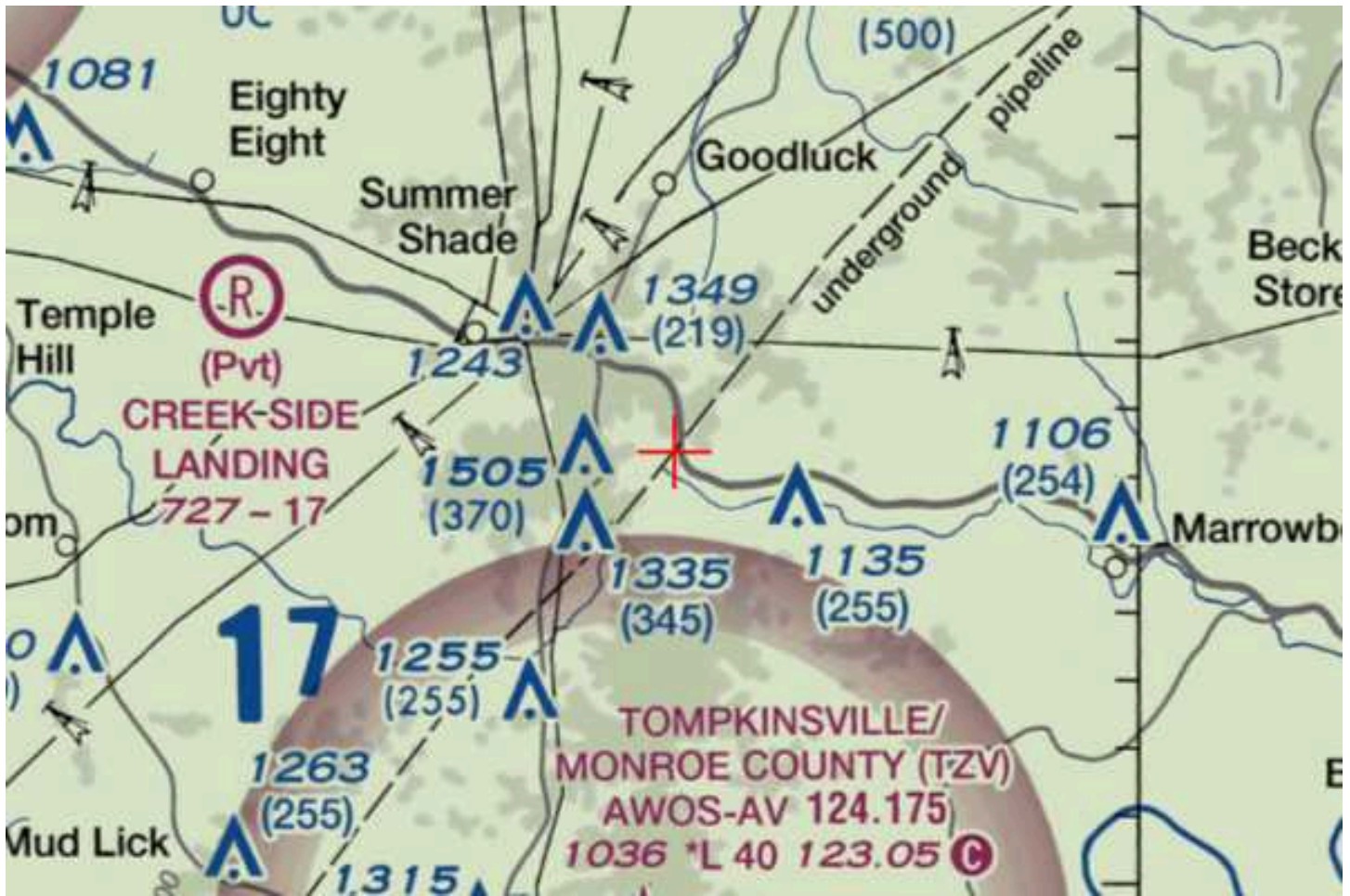
Proposed telecommunications tower



**Frequency Data for ASN 2023-ASO-25098-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
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824	849	MHz	500	W
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2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W





# GEOTECHNICAL REPORT OF SUBSURFACE INVESTIGATION

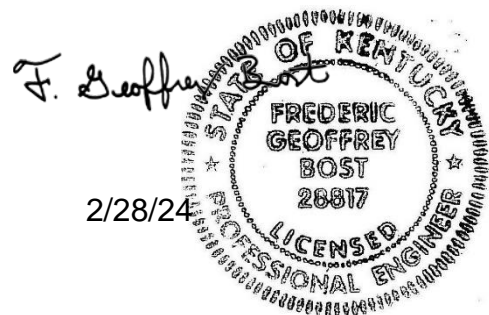
February 28, 2024

PROPOSED SELF SUPPORT TOWER  
WILLOW SHADE WEST  
723518

KY Highway 90  
Summer Shade, KY 42166

36.8558, -85.6431

Prepared by:



*Jorge Varela*

Jorge Varela, P.E.  
Senior Geotechnical Engineer

F. Geoff Bost, P.E.  
Registered KY 28817

Engineered Tower Solutions, PLLC - 3227 Wellington Court - Raleigh, NC 27615  
(919) 782-2710

## Project Summary

Item	Description
<b>Project Description</b>	A geotechnical exploration and report have been prepared for this proposed self-supported tower. Included in this report are the results of the field exploration and the recommendations for the design of the foundation system.
<b>Site Coordinates</b>	Latitude: 36.8558 Longitude: -85.6431
<b>Site Condition</b>	The proposed tower will be installed just north of the intersection between Billy Joe Powell Road and KY Highway 90 in Summer Shade, Kentucky.
<b>Frost Depth</b>	Based on the TIA Standard (TIA-222-H), dated October 2017, the recommended design frost penetration depth to be used for Creek County, KY is 20 inches (1.8 ft).
<b>Groundwater</b>	Groundwater was not encountered at the time of drilling. Please note that subsurface water levels will fluctuate with seasonal and cyclical temperatures and precipitation and can be higher or lower at other times.
<b>Proposed Foundation</b>	We assume the proposed foundation will be supported with either pad and pier or drilled shaft (caisson).

## Field Exploration

Item	Description
Date	February 22 <sup>nd</sup> , 2024
Number of Borings	1
Location	Latitude: 36.8558 Longitude: -85.6431
Equipment Used	D50
Advancement Method	Hollow Stem Auger (HSA)
Sampling Method	ASTM D-1586 with 1.5 I.D. Split Spoon Sampler

## Laboratory Classification and Testing

Standard	Description
ASTM D2488	Standard Practice for Description and Identification of Soils

## **Subsurface Profile**

Based on the results of our borings, the soils beneath the surface can be summarized in the table below:

<b>Material Encountered</b>	<b>Approximate Depth to Bottom of Stratum</b>	<b>Description</b>	<b>Consistency / Density</b>
CLAY	9	Brown and tan sandy lean clay	Medium Stiff to Hard
PWR	14	Partially Weathered Rock sampled as limestone	--
LIMESTONE	24	Slightly weathered and fractured limestone.	--

Detailed descriptions of conditions encountered at each exploration point are indicated on the individual logs in the Appendix B. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual.

Groundwater was not encountered at the time of drilling. Groundwater levels will fluctuate with seasonal and climatic changes and may be different at other times.

## **Earthwork Recommendations – Equipment Mat**

Earthwork is anticipated to include excavations and fill placement. The following sections provide recommendations for use in the preparation of the equipment mat foundation area and access drive.

### **Site Preparation**

The subgrade should be evaluated under the direction of the Geotechnical Engineer. Areas where soft material are present or excessively wet or dry material should either be removed, or moisture conditioned and recompacted.

**Fill Material Types**

<b>Soil Type</b>	<b>USCS Classification</b>	<b>Acceptable Parameters (for Structural Fill)</b>
Imported Low- to Moderate- Plasticity Soil <sup>2</sup>	CL, ML, SC or SM	All locations and elevations
Sand / Gravel with greater than 12% fines	GW/GP, SW/SP	Crushed stone base course may be used for the access roadway or beneath shallow foundations as a replacement material for overexcavated soils.
Near-Surface On-site soils <sup>2</sup>	CL	On-site soils generally appear suitable for use as fill when they contain at least 12% fines (clay and/or silt) and are compacted at an appropriate moisture content.

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Low- to moderate-plasticity cohesive soil or granular soil having at least 12% fines

**Fill Compaction Requirements**

<b>Item</b>	<b>Structural Fill</b>	<b>General Fill</b>
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used	Same as Structural fill
Minimum Compaction Requirements <sup>1,2</sup>	98% of max. below foundations and within 1 foot of finished pavement subgrade 95% of max. above foundations, below floor slabs, and more than 1 foot below finished pavement subgrade	92% of max.
Water Content Range <sup>1</sup>	Low plasticity cohesive: -2% to +3% of optimum High plasticity cohesive: 0 to +4% of optimum Granular: -3% to +3% of optimum	As required to achieve min. compaction requirements

1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D 698).
2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.



## **Excavations**

Groundwater was not encountered at the time of drilling. Although not expected, if encountered in deep trench excavations during construction, groundwater or perched groundwater will require dewatering until backfilling operations are complete.

All excavations that may be required should, at a minimum, comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards to provide stability and safe working conditions.

## **Slopes**

For permanent slopes in unreinforced compacted fill areas, we recommended maximum configurations of 3:1 (Horizontal: Vertical) for the cohesive soils (clay) found at the site.

If steeper slopes are required for site development, stability analyses should be completed to design the grading plan. The face of all slopes should be compacted to the minimum specification for fill embankments. Fill slopes should be overbuilt and trimmed to compacted material.

## **Earthwork Construction Considerations**

The near-surface, on-site soils will lose strength when exposed to moisture. To the extent practical, earthwork should be performed during drier periods of weather. Increased remedial measures due to wet and soft or otherwise unsuitable conditions should be expected if earthwork is performed during colder and wetter periods of weather.

A qualified geotechnical engineer should be retained during the earthwork phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; to monitor proof-rolling, placement and compaction of controlled compacted fills, and backfilling of excavations to the completed subgrade.

## **Foundations Recommendations**

The following recommendations are made based on our review of the test boring data and our past experience with similar projects and subsurface conditions. Ultimate soil strength parameters are presented on table below.

**Ultimate Strength Parameters**

Boring #	Depth (ft)	Unified Soil Classification	Total Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
B-1	0.0 – 2.0	CL	105	--	500
	2.0 – 4.0	CL	115	--	3,400
	4.0 – 6.0	CL	115	--	4,500
	6.0 – 9.0	CL	115	--	4,000
	9.0 – 14.0	PWR	130	38	--
	14.0 – 24.0	ROCK	145	--	10,000

1. Groundwater was not encountered at the time of drilling.

Based on the subsurface conditions and typical design foundation loads for similar self-support towers, we recommend that either a caisson (drilled shaft) or a pad/pier be used to support the new tower.

***Modulus of Subgrade Reaction***

A vertical and horizontal modulus of subgrade reaction may be derived using the following equations and soils parameters expressed in the above table:

$$k_{s-v} = 12 \cdot SF \cdot q_a$$

$$k_{s-h} = k_{s-v} \cdot B$$

Where:

q<sub>a</sub> = Allowable Bearing Capacity (ksf)

SF = Safety Factor

B = Base width (ft), use 1 if B < 1ft

k<sub>s-v</sub> = Vertical Modulus of Subgrade Reaction (kcf)

k<sub>s-h</sub> = Horizontal Modulus of Subgrade Reaction (ksf)

***Caisson (Drilled Shaft)***

Should caissons (drilled shafts) be used, the caissons (drilled shafts) will achieve compressive (downward) and tensile (uplift) resistance through skin friction along the sides of the shafts. In addition to skin friction, bearing resistance at the caisson’s tip will contribute to compressive capacity. We recommend the values given the table below be used for this project. Please note the tip bearing capacity and skin frictions are net ultimate and ultimate values respectively. Appropriate factors of safety or resistance factors should be used. Lateral loads can be resisted by the lateral stiffness of the soil. Parameters for analysis of the laterally loaded caisson are also given the table below.

**Caisson (Drilled Shaft) Parameters**

Depth (ft)	Net Ultimate Tip Bearing Capacity (ksf)	Ultimate Skin Friction <sup>1</sup> (ksf)		Lateral Modulus (pci)	ε <sub>50</sub> (in/in)
		Compressive	Uplift		
0.0 – 2.0	--	--	--	--	--
2.0 – 4.0	--	1.7	1.7	2,000	0.004
4.0 – 6.0	--	2.4	2.4	2,000	0.004
6.0 – 9.0	37	2.1	2.1	2,000	0.004
9.0 – 14.0	40	0.7	0.7	225	--
14.0 – 24.0	40	5.0	5.0	2,000	0.001

1. We recommend the skin friction be ignored for the top 3 ft of the caisson

Based on the subsurface soil conditions, excavations for the caissons (drilled shafts) should be possible using a large, truck-mounted, hydraulic-advanced drill rig. All debris, loose or disturbed soil should be removed from the excavation prior to placing reinforced steel and/or concrete. Reinforcing steel and/or concrete should be placed immediately upon completion of the excavation.

The excavations may be susceptible to caving. Drilling fluid or casing could be used to assist in keeping the drilled hole open. If casing is used, we recommend it be removed from the excavation as concrete is being placed. Continuous vibration or other approved methods should be used during casing withdrawal to reduce the potential for void-space formation within the concrete. If water is present during concrete placement and/or drilling fluids are used to maintain hole stability, concrete should be pumped or otherwise discharged to the bottom of the hole via a hose or tremie pipe. The end of the hose or tremie pipe must remain below the top surface of any water, drilling

fluid and the in-place concrete at all times. Additionally, concrete should be consolidated using vibration methods over the entire length and width of the caissons and the consolidation should be performed only after these fluids are removed and to the extent possible.

***Pad & Pier / Single Mat Foundation***

If the site has been prepared in accordance with the requirements noted in *Earthwork Recommendations – Equipment Mat*, the tower’s foundation capacity can be determined using the soil’s bearing capacity, passive pressure resistance, and a sliding friction factor.

**Net Ultimate Bearing Capacity and Sliding Friction Factor**

<b>Depth<sup>2</sup> (ft)</b>	<b>Net Ultimate Bearing Capacity<sup>1</sup> (psf)</b>	<b>Sliding Friction Factor<sup>1</sup></b>
0.0 – 2.0	--	--
2.0 – 12.0	14,000	0.30

1. This value is a net ultimate value and an appropriate factor of safety or resistance factor should be used

**Ultimate Passive Pressure and Friction Factor**

<b>Boring #</b>	<b>Depth (ft)</b>	<b>Ultimate Passive Pressure<sup>1</sup> (psf)<sup>1</sup></b>
B-1	0.0 – 2.0	0 – 400
	2.0 – 4.0	400 – 800
	4.0 – 8.0	800 – 1,600
	8.0 – 12.0	1,600 – 2,400
	12.0 – 20.0	2,400 – 5,600

1. Ultimate passive pressure can be interpolated for foundation depths with the depth ranges given

### *Seismic Parameters*

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC)

#### Seismic Site Classification

Item	Seismic Parameter
2018 International Building Code Seismic Site Classification	D <sup>1</sup>
Design Spectral Response Acceleration Parameters	S <sub>ds</sub> = 0.205g S <sub>d1</sub> = 0.169g

1. The IBC seismic site classification is based on the subsurface profile depth of 100 feet. The scope of work did not authorize exploration to a depth of 100 feet. A seismic Site Soil Classification of D should be used if insufficient details are known about the 100-foot soil profile.

### **LIMITATIONS OF REPORT**

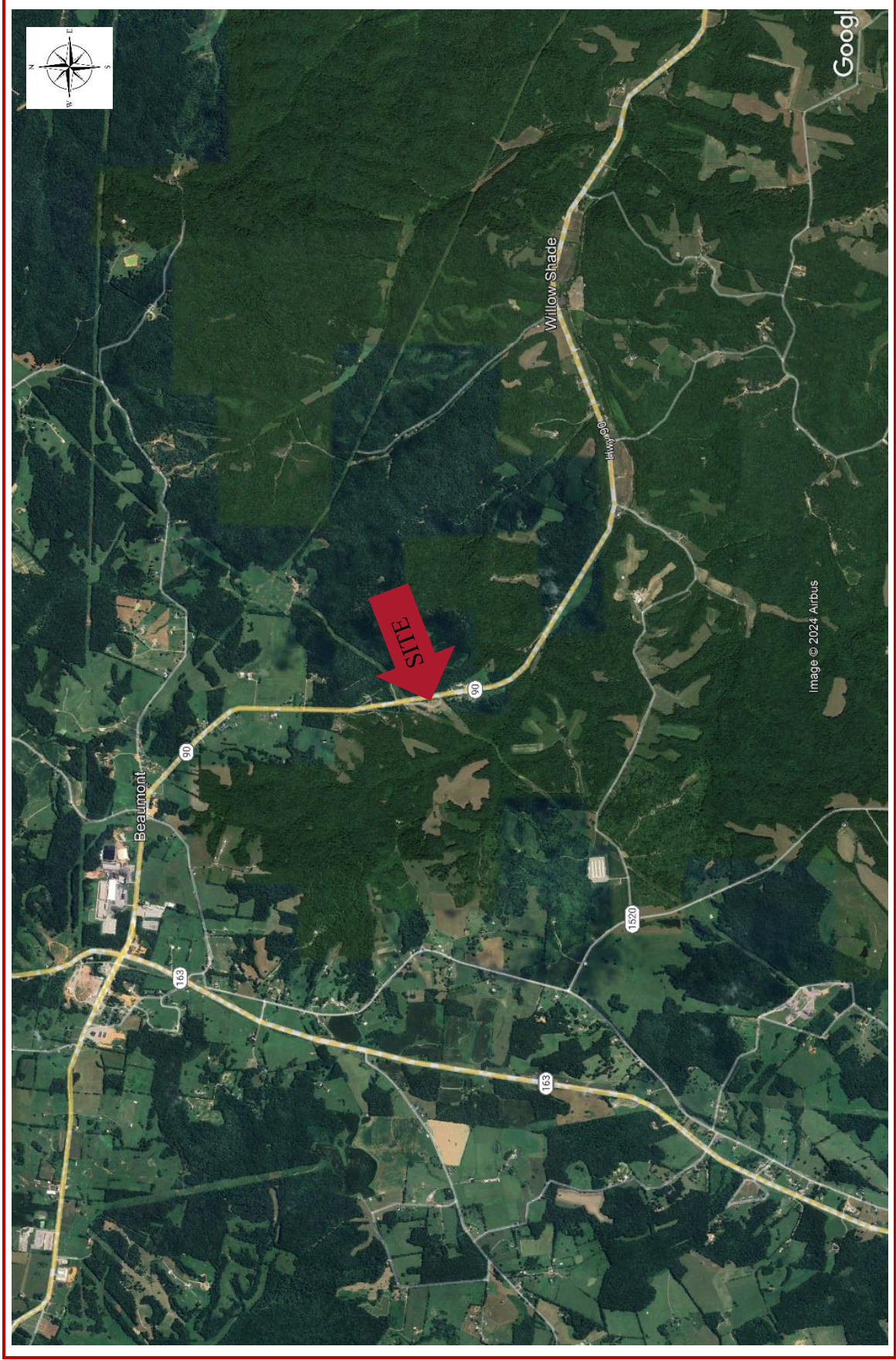
This report has been prepared in accordance with generally accepted geotechnical engineering practices for the specific application of this project. The conclusions in this report are based on the applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

The analyses and conclusions submitted herein are based, in part, upon the data obtained from the subsurface exploration performed for this analysis. The soil and ground water conditions can vary across the site. Opinions and conclusions are subject to change if new or additional information is submitted for review.

**APPENDIX A**  
**LOCATION INFORMATION**



**SITE LOCATION PLAN**  
**WILLOW SHADE WEST (723518)**  
Job Number: 23125691







**SITE PHOTO**  
**WILLOW SHADE WEST (723518)**  
Job Number: 23125691



**APPENDIX B**  
**SOIL TEST BORING**



**CLIENT** EBI Consulting  
**PROJECT NUMBER** 24124269  
**DATE** 2/22/2024  
**DRILLING METHOD** Hollow Stem Auger (HSA) and Rock Coring  
**DRILLING EQUIPMENT** D-50  
**LOGGED BY** J. Varela  
**NOTES** \_\_\_\_\_

**PROJECT NAME** WILLOW SHADE WEST (723518)  
**PROJECT LOCATION** KY Highway 90, Summer Shade, KY 42166  
**COORDINATES** 36.855833, -85.643111  
**GROUND WATER LEVELS:**  
**AT TIME OF DRILLING** --- Not Encountered  
**AT END OF DRILLING** --- Not Encountered  
**AFTER DRILLING** --- Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
		<b>SANDY LEAN CLAY (CL)</b> , brown and tan, moist, medium stiff.	SS 1		2-2-3 (5)
		<b>SANDY LEAN CLAY (CL)</b> , brown and tan, moist, hard.	SS 2		7-9-25 (34)
5			SS 3		3-17-31 (48)
			SS 4		6-14-27 (41)
10			<b>PARTIALLY WEATHERED ROCK (PWR)</b> , sampled as weathered limestone.	SS 5	
15		<b>LIMESTONE</b> , slightly weathered and fractured.	RC 1	93 (60)	
20			RC 2	98 (93)	
Bottom of borehole at 24.0 feet.					

ETS - BORING W/ROCK CORING 2 - ETS DATABASE. JUN30.GDT - 2/27/24 13:27 - R:\2024\124269 - WILLOW SHADE WEST. SUMMER SHADE. KY\GEI7681\_GEOTECHREPORT\WILLOW SHADE WEST.GPJ

## **DIRECTIONS TO SITE**

DIRECTIONS FROM 201 N MAIN ST, EDMONTON, KY 42129: HEAD EAST ON N MAIN ST TOWARDS US-68 E / KY-80 / S MAIN ST, 135 FT, TURN RIGHT ONTO US-68 W / KY-80 / S MAIN ST, 167 FT, KEEP STRAIGHT TO GET ONTO KY 163 / S MAIN ST, 8.3 MI, TURN LEFT ONTO KY-90 / SUMMER SHADE RD, 2.2 MI, ARRIVE AT 6981 KY-90, SUMMER SHADE, KY 42166

PREPARED BY: LAB 248-705-9212



**MEMORANDUM OF LAND LEASE AGREEMENT**

THIS INSTRUMENT PREPARED BY, RECORDING REQUESTED BY  
AND WHEN RECORDED MAIL TO:

TAG Towers LLC  
Attention: Real Estate Department  
Attention: David L. Ginter  
108 Forbes Court  
Richmond, Kentucky 40475  
Phone: 859-544-5000

Preparers Signature: David L. Ginter

This instrument prepared by:

David L. Ginter

After recording please return to:  
TAG Towers LLC  
Attention: Real Estate Department  
108 Forbes Court  
Richmond, Kentucky 40475

### Memorandum of Land Lease Agreement

**Site Name:** CK Willow Shade West

**Site I.D.:** KY-2002

This Memorandum of Land Lease Agreement provides record notice of that Land Lease Agreement dated 7/10/23 ("Agreement") by and between JERRY JENT, an unmarried individual ("Owner") and TAG Towers LLC, a Delaware limited liability company ("Lessee"), the terms and conditions of which are incorporated herein by reference.

Such Agreement provides in part that Owner leases to Lessee a portion of that land and property located in the Commonwealth of Kentucky, County of Metcalfe commonly described as Parcel 042-00-00-014.02 and being described as Tract 1 in Deed Book 165, Page 331, and described in Exhibit A attached hereto, together with non-exclusive easements for ingress, egress, regress, access and utilities, for an initial term of five (5) years, commencing on the date of the Agreement, which term is subject to ten (10) additional five (5) year extension periods by Lessee. Further, the Agreement further grants to Lessee a right of first refusal, as more particularly set forth therein, to purchase or acquire, by easement, assignment or otherwise, the Owners interest in the Agreement or the real property subject to the terms of the Agreement.

**THE REMAINDER OF THIS PAGE IS INTENTIONALLY BLANK  
SIGNATURE PAGES FOLLOW**

IN WITNESS WHEREOF, the parties have executed the Memorandum as of the day and year first above written.

IN WITNESS WHEREOF, the parties have executed the Memorandum as of the day and year first above written.

OWNER: **JERRY JENT, an unmarried individual**

By: *Jerry Jent*  
Name: Jerry Jent

Date: 6/29/23

**OWNER ACKNOWLEDGMENT:**

COMMONWEALTH OF KENTUCKY

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this 10 day of July, 2023 by **JERRY JENT, an unmarried individual**, who, being duly authorized to execute this instrument, so executed the instrument as his/her voluntary act and deed. He is personally known to me or has produced \_\_\_\_\_ as identification.

My Commission Number: KYNP16874

*Carla Morris*  
Notary Public

My Commission Expires: 10/13/24

Carla Morris  
Printed Name

LESSEE: TAG Towers LLC, a Delaware limited liability company

By: David L. Ginter

Name: David L. Ginter, President

Title: President

Date: 7/10/23

**LESSEE ACKNOWLEDGMENT:**

COMMONWEALTH OF KENTUCKY

COUNTY OF MADISON

The foregoing instrument was acknowledged before me this 10 day of July, 2023, by David L. Ginter, the President of TAG Towers LLC, a Delaware limited liability company (Lessee), for and on behalf of the company. He/She is personally known to me or has produced \_\_\_\_\_ as identification.

My Commission Number: KYNP16874

Carla Morris  
Notary Public

My Commission Expires: 10/13/24

Carla Morris  
Printed Name



**EXHIBIT A**  
**Site Agreement - Site Description – Permitted Exceptions**

**Site Name: CK Willow Shade West**

**Site I.D.:KY-2002**

**That land and property located in the Commonwealth of Kentucky, County of Metcalfe commonly described as Parcel 042-00-00-014.02 and being described as Tract 1 in Deed Book 165, Page 331, as follows:**

That land and property located in the Commonwealth of Kentucky, County of Metcalfe commonly described as Parcel 042-00-00-014.02 and being described as Tract 1 in Deed Book 165, Page 331, as follows:

Tract I:

Beginning at a set 1/2" rebar at a r/w monument, on the r/w of State Hwy. #90, a corner to David Welshofer (Deed Book 93, Page 417); thence with the line of Welshofer, S 46 deg. 48 min. 19 sec. W (passing a power pole at 224.72 ft. and a set 1/2" rebar at a 6" oak at 1555.38 ft.) 1589.66 ft. to a point centerline of branch, a corner to Welshofer, in the line of the Ritter Farms (Deed Book 113, Page 298, Tract #5, Plat Slide "A", Page 710); thence with the line of the Ritter Farms and the meanders of the branch, N 45 deg. 06 min. 50 sec. W 27.43 ft.; thence N 34 deg. 00 min. 17 sec. W 153.08 ft.; thence N 16 deg. 37 min. 10 sec. W 76.65 ft.; thence N 30 deg. 07 min. 01 sec. W 279.69 ft.; thence N 00 deg. 45 min. 21 sec. W 124.87 ft.; thence N 30 deg. 15 min. 36 sec. W 241.67 ft.; thence N 06 deg. 10 min. 28 sec. W 213.11 ft.; thence N 12 deg. 40 min. 08 sec. W 156.28 ft.; thence N 35 deg. 58 min. 22 sec. W 136.52 ft.; thence N 29 deg. 58 min. 18 sec. W 219.57 ft. to a point centerline of branch, in the line of Ritter Farms; thence with the line of the Ritter Farms and Rodney Liebhart (Deed Book 112, Page 504) N 19 deg. 35 min. 03 sec. W 118.68 ft. to a point in the branch, in the line of Liebhart; thence with the line of Liebhart, N 38 deg. 12 min. 48 sec. W 136.96 ft.; thence N 27 deg. 11 min. 33 sec. W 182.11 ft.; thence N 09 deg. 41 min. 19 sec. W 267.21 ft. to a point centerline of branch (ref. N 88 deg. 19 min. 56 sec. W 30.00 ft. from a 1/2" rebar cap #3013 found at the foot of a bluff) a corner to Liebhart, in the line of Thomas Aldridge (Deed Book 105, Page 370, Tract #4, Pat Slide "A", Page 710); thence with the line of Aldridge, S 88 deg. 19 min. 56 sec. E 134.00 ft. to a 1/2" rebar cap #3013 found at a stone, a corner to Aldridge and Shane Dodson and Carl Frazier (Deed Book 104, Page 825); thence with the line of Frazier, N 74 deg. 39 min. 40 sec. E 1284.75 ft. to a 5/8" rebar cap #2649 found, a corner to Frazier on the r/w of State Hwy. #90; thence with the r/w, S 34 deg. 21 min. 08 sec. E 267.91 ft. to a set 1/2" rebar at a r/w monument; thence S 15 deg. 29 min. 56 sec. E 120.46 ft. (chord distance) to a set 1/2" rebar at a r/w monument; thence S 01 deg. 14 min. 38 sec. E 227.54 ft. to a set 1/2" rebar at a r/w monument; thence S 18 deg. 38 min. 54 sec. E 67.03 ft. to a set 1/2" rebar, on the r/w of State Hwy. #90, a corner to Tract #2; thence with the line of Tract #2, S 61 deg. 35 min. 43 sec. W 348.76 ft. to a set 1/2" rebar; thence S 36 deg. 14 min. 53 sec. E 117.95 ft. to a set 1/2" rebar; thence S 83 deg. 18 min. 00 sec. E 101.46 ft. to a set 1/2" rebar; thence N 54 deg. 43 min. 36 sec. E 105.22 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road; thence N 71 deg. 40 min. 19 sec. E 99.91 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road, a corner to Tract #2, in the r/w of State Hwy. #90; thence with the r/w of Hwy. #90, S 09 deg. 50 min. 42 sec. E 94.27 ft. to the beginning containing 60.781 acres more or less. According to an actual survey dated June 14, 2002, by Joe R. Leftwich, PLS #3013 with Leftwich Land Surveying, Inc.

Tract II:

Beginning at a set 1/2" rebar centerline of the Billy Joe Powell Road on the r/w of State Hwy. #90, a corner to Tract #1; thence with the line of Tract #1, S 71 deg. 40 min. 19 sec. W 99.91 ft. to a set 1/2" rebar centerline of the Billy Joe Powell Road; thence S 54 deg. 43 min. 36 sec. W 105.22 ft. to a set 1/2" rebar; thence N 83 deg. 18 min. 00 sec. W 101.46 ft. to a set 1/2" rebar; thence S 36 deg. 14 min. 53 sec. W 117.95 ft. to a set 1/2" rebar; thence N 61 deg. 35 min. 43 sec. E 348.76 ft. to a set 1/2" rebar, a corner to Tract #1, on the r/w of State Hwy. #90; thence with the r/w, S

**EXHIBIT A (Continued)**  
**Site Agreement - Site Description – Permitted Exceptions**

**Site Name: CK Willow Shade West**

**Site I.D.:KY-2002**

18 deg. 38 min. 54 sec. E 84.50 ft. to a set 1/2" rebar at a r/w monument; thence S 09 deg. 50 min. 42 sec. E 102.12 ft. to the beginning containing 1.203 acres more or less. According to an actual survey dated June 14, 2002 by Joe R. Leftwich, P.L.S. #3013, with Leftwich Land Surveying.

Being the same property to which Pauletta Jent acquired title from Melvin C. Lemons, Jr. by Deed dated February 4, 2020 and recorded in Deed Book 165, Page 331 in the office of the Metcalfe County Clerk.

PARCEL ID: 042-00-00-014.02

This being the same property conveyed to Jerry Jent, single, in a deed from Pauletta Jent and Floyd Jent, married, dated 11/4/2022 and recorded 11/7/2022, in book 173 page 236.

**Permitted Exceptions: None.**

**Note: Owner and Lessee may, at Lessee's option, replace this Exhibit with an exhibit setting forth the legal description of the property on which the Site is located and/or a more detailed survey or drawing depicting the Site.**

**EXHIBIT A (Continued)**  
**Site Agreement - Site Description - Permitted Exceptions**

**LEASE AREA**

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:

Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0090-006-012;

Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Lease Area;

Thence S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FSton 3282";

Thence N 17°19'19" W - 100.00' to a set iron rod with a cap stamped "FSton 3282";

Thence N 72°40'41" E - 100.00' to a set iron rod with a cap stamped "FSton 3282";

Thence S 17°19'19" E - 100.00' to the point of beginning, containing 10,000.00 square feet as per survey by Frank L. Selinger, II dated March 16, 2023.

**ACCESS & UTILITY EASEMENT**

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:

Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0090-006-012;

Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FSton 3282", and being the southeast corner of the Lease Area;

Thence with the south line of said Lease Area S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Access & Utility Easement;

Thence leaving said Lease Area S 72°40'41" W - 30.00' to a set iron rod with a cap stamped "FSton 3282";

Thence N 17°19'19" W - 50.00' to a set iron rod with a cap stamped "FSton 3282";

Thence S 72°40'41" W - 56.16' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the right with a radius of 95.00' and a chord of N 17°28'49" E - 73.17' to a set iron rod with a cap stamped "FSton 3282";

Thence N 40°07'55" E - 33.45' to a set iron rod with a cap stamped "FSton 3282";

Thence N 08°00'44" E - 57.55' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the right with a radius of 265.00' and a chord of N 17°58'25" E - 39.02' to a set iron rod with a cap stamped "FSton 3282";

Thence N 22°11'45" E - 51.85' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the left with a radius 285.00' and a chord of N 06°31'34" E - 153.95' to a set iron rod with a cap stamped "FSton 3282";

Thence N 09°08'38" W - 42.06' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the right with a radius of 415.00' and a chord of N 04°11'30" W - 71.65' to a set iron rod with a cap stamped "FSton 3282";

Thence N 00°45'38" E - 180.62' to a set iron rod with a cap stamped "FSton 3282" on the west right-of-way of said Kentucky Highway 90;

Thence with said right-of-way for the next two (2) calls: (1) S 11°02'37" E - 128.41' to a set iron rod with a cap stamped "FSton 3282";

Thence (2) S 15°29'56" E - 13.32' to a set iron rod with a cap stamped "FSton 3282";

Thence leaving said Kentucky Highway 90 and traversing said Jent property S 00°45'38" W - 42.13' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the left with a radius 285.00' and a chord of S 04°11'30" E - 66.47' to a set iron rod with a cap stamped "FSton 3282";

Thence S 09°08'38" E - 42.06' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the right with a radius of 315.00' and a chord of S 06°31'34" W - 170.16' to a set iron rod with a cap stamped "FSton 3282";

Thence S 22°11'45" W - 51.85' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the left with a radius 235.00' and a chord of S 18°09'06" W - 33.15' to a set iron rod with a cap stamped "FSton 3282";

Thence S 08°00'44" W - 56.52' to a set iron rod with a cap stamped "FSton 3282";

Thence S 18°34'44" W - 18.24' to a set iron rod with a cap stamped "FSton 3282" on the northwest corner of said Lease Area;

Thence with the west line of said Lease Area S 17°19'19" E - 100.00' to the point of beginning, containing 22,253.91 square feet as per survey by Frank L. Selinger, II dated March 16, 2023.

**UTILITY EASEMENT**

Being located on the property conveyed to Pauletta Jent in Deed Book 165, Page 331, Tract 1, and be located on the west side of State Highway 90 in Metcalfe County, Kentucky which is further described as follows:

Commencing at a 5/8" rebar found on the east line of said Jent property and on the west Right-of-way of Kentucky State Highway at 85' right of the centerline station number 136+50 per project plan Number SSP 085-0090-006-012;

Thence traversing said Jent property S 04°56'34" E - 60.89' to a set iron rod with a cap stamped "FSton 3282", and being the southeast corner of the Lease Area;

Thence with the south line of said Lease Area S 72°40'41" W - 100.00' to a set iron rod with a cap stamped "FSton 3282", and being the southeast corner of the Access & Utility Easement;

Thence leaving said Lease Area with the perimeter of said Access & Utility Easement for the next four (4) calls: (1) S 72°40'41" W - 30.00' to a set iron rod with a cap stamped "FSton 3282";

Thence (2) N 17°19'19" W - 50.00' to a set iron rod with a cap stamped "FSton 3282";

Thence (3) S 72°40'41" W - 56.16' to a set iron rod with a cap stamped "FSton 3282";

Thence (4) along a curve to the right with a radius of 95.00' and a chord of N 02°02'42" E - 23.37' to a set iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Utility Easement;

Thence leaving said N 48°45'59" W - 87.60' to a set iron rod with a cap stamped "FSton 3282";

Thence N 41°14'01" E - 10.00' to a set iron rod with a cap stamped "FSton 3282";

Thence S 49°45'59" E - 82.15' to a set iron rod with a cap stamped "FSton 3282";

Thence along a curve to the left with a radius 95.00' and a chord of S 12°41'42" W - 11.38' to the point of beginning, containing 847.54 square feet as per survey by Frank L. Selinger, II dated March 16, 2023.

**STATE OF KENTUCKY**  
**COUNTY OF METCALFE, Sct.**  
**I, Shannon Fields, Clerk of Metcalfe County**  
**Court, do certify that the foregoing DEEDS**  
**was on 08/09/2023 lodged in my office for**  
**record, and that it has been duly recorded in**  
**my said office, together with this and the**  
**certificate thereon endorsed.**

**Given under my hand,**  
**Shannon Fields, CLERK**

## Notification List

Parcel # 042-00-00-014.02

JENT JERRY

P O BOX 719

VICCO, KY 41773

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-014.02  
 Account Number: 45577  
 Location Address: 7121 SUMMER SHADE RD  
 Description: 61.95A & HSE  
(Note: Not to be used on legal documents)  
 Class: FABRM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)

**Ownership**

JENT JERRY  
 P O BOX 719  
 VICCO, KY 41773

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
11/4/2022	\$0	173	236	JENT JERRY	JENT PAULETTA

**Information**



Metcalfe County, KY  
 P.O. Box 959  
 Edmonon, KY 42129

Property Valuation  
 Administrator  
[Michael Welsh](#)  
 270-432-3162

**Announcements**

[How to use the Beacon site - view Demo Videos](#)

Parcel # 042-00-00-017.00

WILLIAMS JARED C & DIANNA L

6796 SUMMER SHADE RD

BEAUMONT, KY 42124

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-017.00  
 Account Number: 45580  
 Location Address: 6796 SUMMER SHADE RD  
 Description: 9.94A & HSE  
(Note: Not to be used on legal documents)  
 Class: RESIDENTIAL (10)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)

**Ownership**

WILLIAMS JARED C & DIANNA L  
 6796 SUMMER SHADE RD  
 BEAUMONT, KY 42124

**Land Characteristics**


**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
2/28/2021	\$215,000	148	246	WILLIAMS JARED C & DIANNA L	WITTY JON RICHARD
10/7/2016	\$0	157	916	WITTY JON RICHARD	WITTY JON & JULIE

**Information**



Metcalfe County, KY  
 P.O. Box 959  
 Edmonon, KY 42129

Property Valuation  
 Administrator  
[Michael Welsh](#)  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-018.00  
 CASH POOR FARMS LLC % CASH FUGATE  
 PO BOX 73  
 SUMMER SHADE, KY 42166

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search..

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-018.00  
 Account Number: 45501  
 Location Address: 4890 SUMMER SHADE RD  
 Description: 75.22A & MOD HME  
 (Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7302

[View Map](#)

**Ownership**

CASH POOR FARMS LLC % CASH FUGATE  
 PO BOX 73  
 SUMMER SHADE, KY 42166

**Land Characteristics**


**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
4/27/2012	\$90,000	147	24	CASH POOR FARMS LLC	BOLIN CARL ERIC & SAMANTHA C
12/19/2006	\$105,000	133	103	BOLIN CARL ERIC & SAMANTHA C	BRYANT JOSEPH ET AL

**Information**



Metcalfe County, KY  
 PO Box 929  
 Edmonton, KY 42129

Property Valuation Administrator  
 Michael Walsh  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-019.00  
 ROSS CAYDEN SHANE  
 7312 SUMMER SHADE RD  
 BEAUMONT, KY 42124

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search..

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-019.00  
 Account Number: 45502  
 Location Address: 7312 SUMMER SHADE RD  
 Description: 17.49A, M HME & BLDG  
 (Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7352

[View Map](#)

**Ownership**

ROSS CAYDEN SHANE  
 7312 SUMMER SHADE RD  
 BEAUMONT, KY 42124

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
3/3/2021	\$125,000	168	732	ROSS CAYDEN SHANE	MILLER WILLIAM J
10/22/2010	\$90,000	143	344	MILLER WILLIAM J	COOKSEY MARVIN

**Information**



Metcalfe County, KY  
 PO Box 939  
 Edmonton, KY 42129

Property Valuation Administrator  
 Michael Walsh  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-019.02  
 HARDIN LARRY WAYNE LISA CARTER  
 9020 SUMMER SHADE RD  
 SUMMER SHADE, KY 42166

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-019.02  
 Account Number: 45584  
 Location Address: 7180 SUMMER SHADE RD  
 Description: M HME & 0.76A  
 Class: RESIDENTIAL (10)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7302

*(Note: Not to be used on legal documents)*

[View Map](#)

**Ownership**

HARDIN LARRY WAYNE LISA CARTER  
 9020 SUMMER SHADE RD  
 SUMMER SHADE, KY 42166

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
3/13/2018	\$5,000	160	815	HARDIN LARRY WAYNE & FREDDIE ALLEN PARRISH	COSTELLO GEORGE MICHAEL & CATHY BRATCHER
6/25/2012	\$7,500	148	662	COSTELLO GEORGE MICHAEL & CATHY BRATCHER	PAULL TRACY

**Information**



Metcalfe County, KY  
 P.O. Box 939  
 Edmonton, KY 42129

Property Valuation  
 Administrator  
 Michael Welsh  
 270-432-3162

**Announcements**

[How to use the Recons site - view Demo Videos](#)

Parcel # 042-00-00-019.03  
 MEDINA HECTOR R & MARINITZA TIFFANY M QUINTERO  
 2529 HOLLY HILL GROVE RD 1  
 DAVENPORT, FL 33837

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-019.03  
 Account Number: 45585  
 Location Address: SUMMER SHADE RD  
 Description: 1.31A  
 Class: RESIDENTIAL (10)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

*(Note: Not to be used on legal documents)*

[View Map](#)

**Ownership**

MEDINA HECTOR R & MARINITZA TIFFANY  
 M QUINTERO  
 2529 HOLLY HILL GROVE RD 1  
 DAVENPORT, FL 33837

**Land Characteristics**

**Tax Roll Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
1/23/2024	\$19,000	176	758	MEDINA HECTOR R & MARINITZA	NORRIS HEATHER L & JUDY ANN
5/23/2023	\$15,000	174	857	NORRIS HEATHER L & JUDY ANN	HUMPHRIES SHARON
5/3/2023	\$0	174	730	HUMPHRIES SHARON	FREELWOMAN PATRICIA & DEBORAH HUMPHREY EST
4/20/2013	\$0	149	409	FREELWOMAN PATRICIA A & DEBORAH F HUMPHREY	WELSHOFER PATRICIA

**Information**



Metcalfe County, KY  
 P.O. Box 939  
 Edmonton, KY 42129

Property Valuation  
 Administrator  
 Michael Welsh  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-019.01  
 MOTLEY TRADING CO LLC BRADLEY S DUBREE  
 P O BOX 207  
 SMITHS GROVE, KY 42171

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-019.01  
 Account Number: 45583  
 Location Address: 7511 SUMMER SHADE RD  
 Description: 31.36A & HSES  
 (Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)

**Ownership**

MOTLEY TRADING CO LLC BRADLEY S DUBREE  
 P O BOX 207  
 SMITHS GROVE, KY 42171

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
5/5/2021	\$80,000	168	880	MOTLEY TRADING CO LLC	HOLLOWAY WILLIAM MATTHEW
5/25/2016	\$40,000	156	729	HOLLOWAY WILLIAM MATTHEW	FREEWOMAN PATRICIA A

**Information**



Metcalfe County, KY  
 P.O. Box 939  
 Edmonston, KY 42129

Property Valuation Administrator  
 Michael Walcott  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-013.00  
 RITTER FARMS INC JAMES RITTER PRESIDENT  
 93 BEECHWOOD RD  
 TOMPKINSVILLE, KY 42167

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-013.00  
 Account Number: 45572  
 Location Address: EUGENE LYNN RD  
 Description: 84.28A  
 (Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)

**Ownership**

RITTER FARMS INC JAMES RITTER PRESIDENT  
 93 BEECHWOOD RD  
 TOMPKINSVILLE, KY 42167

**Land Characteristics**


**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
5/1/2001	\$70,000	113	298	RITTER FARMS INC	MILAM MARTY & JILL

**Information**



Metcalfe County, KY  
 P.O. Box 939  
 Edmonston, KY 42129

Property Valuation Administrator  
 Michael Walcott  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-013.04  
 HINKLE MARY ETTA & JAMES A HINKLE II  
 195 BRITT RD  
 SUMMER SHADE, KY 42166

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search.

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-013.04  
 Account Number: 45575  
 Location Address: 740 EUGENE LYNN RD  
 Description: 17.90A & HSE  
(Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)

**Ownership**

HINKLE MARY ETTA & JAMES A HINKLE II  
 195 BRITT RD  
 SUMMER SHADE, KY 42166

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/22/2023	\$201,135	175	060	HINKLE MARY ETTA & JAMES A HINKLE II	ADAMS JOSHUA L
4/14/2016	\$130,000	156	415	ADAMS JOSHUA L	LIEBHART RODNEY & LE JANE



**Information**

Metcalfe County, KY  
 P.O. Box 939  
 Edmonson, KY 42129

Property Valuation  
 Administrator  
 Michael Welsh  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-012.00  
 MUTTER RICHARD A & CLAIRE  
 459 BAYLES RD  
 GLASGOW, KY 42141

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search.

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-012.00  
 Account Number: 45570  
 Location Address: BRITT RD  
 Description: 31.63A  
(Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7392

[View Map](#)

**Ownership**

MUTTER RICHARD A & CLAIRE  
 459 BAYLES RD  
 GLASGOW, KY 42141

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/30/2005	\$68,000	MC-5	609	MUTTER RICHARD A & CLAIRE	ALDRIDGE THOMAS M & KATHY M
12/1/1998	\$19,000			ALDRIDGE THOMAS M & KATHY M	PROGGETT DAVID SR



**Information**

Metcalfe County, KY  
 P.O. Box 939  
 Edmonson, KY 42129

Property Valuation  
 Administrator  
 Michael Welsh  
 270-432-3162

**Announcements**

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Parcel # 042-00-00-015.01  
 LESLIE KRystal  
 595 MARTIN CEMETERY RD  
 SUMMER SHADE, KY 42166

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-015.01  
 Account Number: 45579  
 Location Address: 6643 SUMMER SHADE RD  
 Description: 25.51A M HME & BLDGS  
(Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7382

[View Map](#)



**Information**



Metcalfe County, KY  
 P.O. Box 929  
 Edmonson, KY 42129

Property Valuation  
 Administrator  
 Michael Walsh  
 270-432-3162

**Announcements**

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**Ownership**

LESLIE KRystal  
 595 MARTIN CEMETERY RD  
 SUMMER SHADE, KY 42166

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
7/24/2023	\$199,000	175	433	LESLIE KRystal	HOSTETLER FANNIE
11/21/2007	\$90,000	138	5	HOSTETLER EMANUEL & FANNIE	ESH JOHNNY

Parcel # 042-00-00-015.00  
 MOREHEAD MATTHEW & CHRISTIE  
 6671 SUMMER SHADE RD  
 BEAUMONT, KY 42124

**qPublic.net** Metcalfe County, KY PVA Elizabeth Williams Search search

Layers Map Search Results **Report** Sales Search Sales List Sales Results Home

**Summary**

Parcel Number: 042-00-00-015.00  
 Account Number: 45578  
 Location Address: 6671 SUMMER SHADE RD  
 Description: 20.15A & HOSE  
(Note: Not to be used on legal documents)  
 Class: FARM (20)  
 Tax District: 00-County  
 Rate Per Thousand: 10.7302

[View Map](#)



**Information**



Metcalfe County, KY  
 P.O. Box 929  
 Edmonson, KY 42129

Property Valuation  
 Administrator  
 Michael Walsh  
 270-432-3162

**Announcements**

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**Ownership**

MOREHEAD MATTHEW & CHRISTIE  
 6671 SUMMER SHADE RD  
 BEAUMONT, KY 42124

**Land Characteristics**

**Tax Roll Information**

**Improvement Information**

**Sales**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
8/19/2016	\$173,000	157	437	MOREHEAD MATTHEW & CHRISTIE	YODER, JONATHAN & ROSETTA
8/11/2007	\$48,000	125	160	YODER, JONATHAN	FRAZIER CARL D & MARY S

Russell L. Brown  
Attorney at Law  
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100  
Indianapolis, IN 46204  
(317) 637-1321 main  
(317) 687-2344 fax

March 26, 2024

**Notice of Proposed Construction of  
Wireless Communications Facility  
Site Name: Willow Shade West**

Cellco Partnership, d/b/a Verizon Wireless and TAG Towers, LLC is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 6981 KY-90 (Summer Shade Road), Summer Shade, KY 42166 (North Latitude: (36° 51' 21.64", West Longitude 85° 38' 35.2"). The proposed facility will include a 255-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00077 in any correspondence sent in connection with this matter.

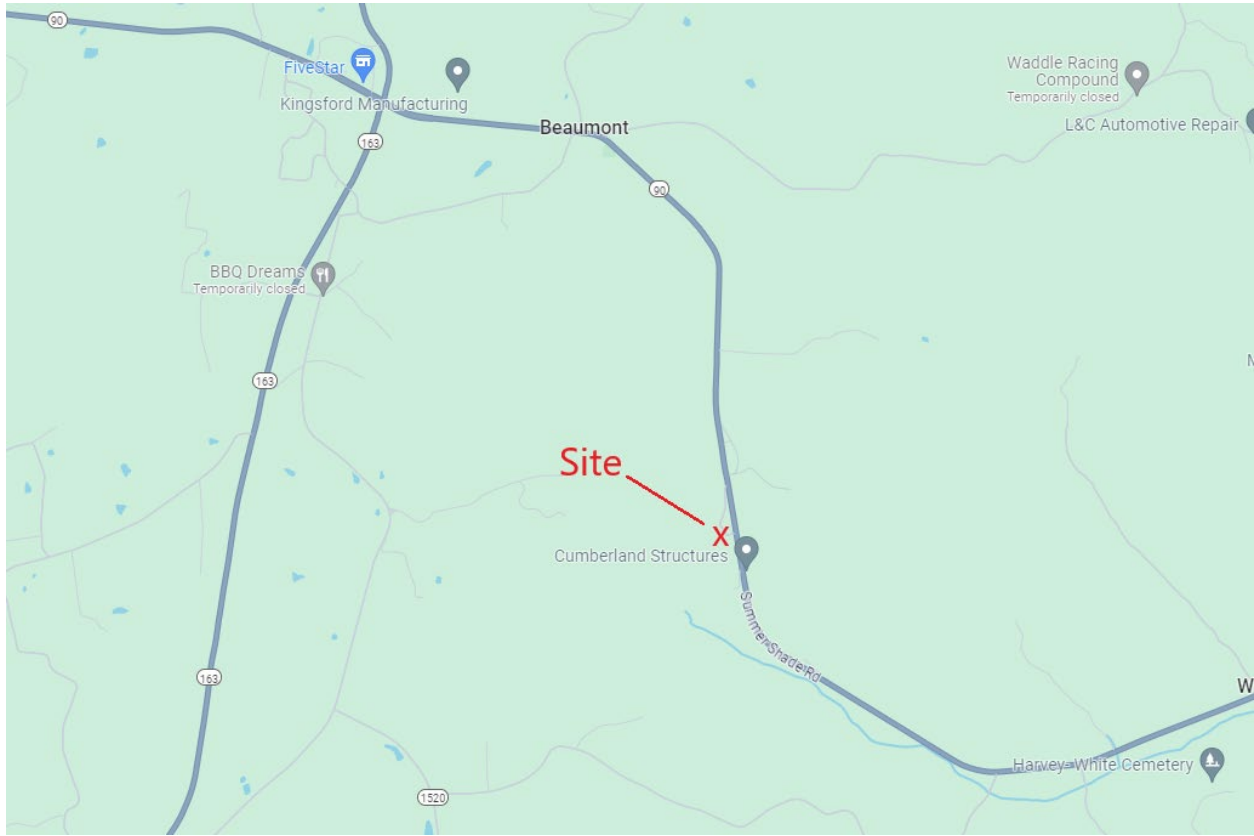
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,  
Russell L. Brown



Attorney for Applicant  
RLB/mnw  
enclosure

# Location Map



**ClarkQuinn**  
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0471 4853 65

JENT JERRY  
P O BOX 719  
VICCO, KY 41773

FIRST-CLASS



US POSTAGE<sup>SM</sup>PITNEY BOWES



ZIP 46204 \$ 008.69<sup>0</sup>  
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9589 0710 5270 0471 4853 72

WILLIAMS JARED C & DIANNA L  
6796 SUMMER SHADE RD  
BEAUMONT, KY 42124

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9589 0710 5270 0471 4853 89

CASH POOR FARMS LLC  
c/o CASH FUGATE  
PO BOX 73  
SUMMER SHADE, KY 42166

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ROSS CAYDEN SHANE  
7312 SUMMER SHADE RD  
BEAUMONT, KY 42124

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9589 0710 5270 0471 4854 02

HARDIN LARRY WAYNE LISA CARTER  
9020 SUMMER SHADE RD  
SUMMER SHADE, KY 42166

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MEDINA HECTOR R & MARINITZA  
TIFFANY M QUINTERO  
2529 HOLLY HILL GROVE RD 1  
DAVENPORT, FL 33837

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MOTLEY TRADING CO LLC  
BRADLEY S DUBREE  
P O BOX 207  
SMITHS GROVE, KY 42171

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RITTER FARMS INC  
JAMES RITTER PRESIDENT  
93 BEECHWOOD RD  
TOMPKINSVILLE, KY 42167

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9589 0710 5270 0471 4849 93

HINKLE MARY ETTA  
& JAMES A HINKLE II  
195 BRITT RD  
SUMMER SHADE, KY 42166

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MUTTER RICHARD A & CLAIRE  
459 BAYLES RD  
GLASGOW, KY 42141

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LESLIE KRYSTAL  
595 MARTIN CEMETERY RD  
SUMMER SHADE, KY 42166

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MOREHEAD MATTHEW & CHRISTIE  
6671 SUMMER SHADE RD  
BEAUMONT, KY 42124

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ZIP 46204 \$ 008.69<sup>0</sup>  
02 7H  
0006035028 MAR 26 2024

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROSS CAYDEN SHANE  
7312 SUMMER SHADE RD  
BEAUMONT, KY 42124



9590 9402 8749 3310 9102 18

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4853 96

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Cayden Ross*

- Agent
- Addressee

B. Received by (Printed Name)

*Cayden Ross*

C. Date of Delivery

*8/1/24*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HARDIN LARRY WAYNE LISA CARTER  
 9020 SUMMER SHADE RD  
 SUMMER SHADE, KY 42166



9590 9402 8749 3310 9102 01

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4854 02

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
 Addressee  
 X *Lisa Carter*

B. Received by (Printed Name)  Agent  
 Lisa Carter

C. Date of Delivery  Addressee  
 3/30/24

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restrict  
 Certified Mail® Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation  
 Collect on Delivery Restricted Delivery  Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (0)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MOTLEY TRADING COLLC  
 BRADLEY S DUBREE  
 P O BOX 207  
 SMITHS GROVE, KY 42171



9590 9402 8749 3310 9101 88

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4854 26

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
 Addressee  
 X *Betsy*

B. Received by (Printed Name)  Agent  
 Betsy

C. Date of Delivery  Addressee  
 3/30/24

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restrict  
 Certified Mail® Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation  
 Collect on Delivery Restricted Delivery  Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (00)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:

MOREHEAD MATTHEW & CHRISTIE  
 6671 SUMMER SHADE RD  
 BEAUMONT, KY 42124



9590 9402 8749 3310 9101 33

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4854 40

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
 Addressee  
 X *CR Morehead*

B. Received by (Printed Name)  Agent  
 CR Morehead

C. Date of Delivery  Addressee  
 3/30/24

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restrict  
 Certified Mail® Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation  
 Collect on Delivery Restricted Delivery  Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (0)

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RITTER FARMS INC  
JAMES RITTER PRESIDENT  
93 BEECHWOOD RD  
TOMPKINSVILLE, KY 42167



9590 9402 8749 3310 9101 71

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4849 86

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Suzanne Keele*  Agent  
 Addressee

B. Received by (Printed Name)

*Suzanne Keele*

C. Date of Delivery

*4-4-24*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JENT JERRY  
 P O BOX 719  
 VICCO, KY 41773



9590 9402 8749 3310 9107 20

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4853 65

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HINKLE MARY ETTA  
 & JAMES A HINKLE II  
 195 BRITT RD  
 SUMMER SHADE, KY 42166



9590 9402 8749 3310 9101 64

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4849 93

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CASH POOR FARMS LLC  
 c/o CASH FUGATE  
 PO BOX 73  
 SUMMER SHADE, KY 42166



9590 9402 8749 3310 9102 25

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4853 89

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

Tracking Number:

[Remove X](#)

## 9589071052700471485433

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

### Latest Update

Your item could not be delivered on April 15, 2024 at 11:14 am in SUMMER SHADE, KY 42166. It was held for the required number of days and is being returned to the sender.

Get More Out of USPS Tracking:

**USPS Tracking Plus®**

Feedback

#### Alert

**Unclaimed/Being Returned to Sender**

SUMMER SHADE, KY 42166

April 15, 2024, 11:14 am

**Reminder to Schedule Redelivery of your item**

April 4, 2024

**See All Tracking History**

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

**Text & Email Updates**



**USPS Tracking Plus®**



**Product Information**



**See Less ^**

Track Another Package

Enter tracking or barcode numbers

## Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

Tracking Number:

Remove X

## 9589071052700471485419

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

### Latest Update

Your item arrived at our USPS facility in INDIANAPOLIS IN DISTRIBUTION CENTER on April 16, 2024 at 8:34 am. The item is currently in transit to the destination.

Get More Out of USPS Tracking:

**USPS Tracking Plus®**

Feedback

### Moving Through Network

#### Arrived at USPS Regional Facility

INDIANAPOLIS IN DISTRIBUTION CENTER  
April 16, 2024, 8:34 am

#### In Transit to Next Facility

April 15, 2024

See All Tracking History

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

## Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

Tracking Number:

[Remove X](#)

## 9589071052700471485006

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

### Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

#### Get More Out of USPS Tracking:

**USPS Tracking Plus®**

Feedback

Delivered

Out for Delivery

Preparing for Delivery

#### Moving Through Network

**In Transit to Next Facility**

April 3, 2024

#### Departed USPS Regional Facility

NASHVILLE TN DISTRIBUTION CENTER

March 30, 2024, 7:36 am

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

**Text & Email Updates**





**USPS Tracking Plus®**



---

**Product Information**



**See Less** ^

Track Another Package

Enter tracking or barcode numbers

## Need More Help?

Contact USPS Tracking support for further assistance.

**FAQs**

Tracking Number:

[Remove X](#)

## 9589071052700471485372

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

### Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

#### Get More Out of USPS Tracking:

**USPS Tracking Plus®**

Feedback

#### Moving Through Network

##### In Transit to Next Facility

April 15, 2024

##### Arrived at USPS Regional Facility

INDIANAPOLIS IN DISTRIBUTION CENTER

April 12, 2024, 2:02 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

[Text & Email Updates](#)



[USPS Tracking Plus®](#)



[Product Information](#)



[See Less ^](#)

Track Another Package

Enter tracking or barcode numbers

## Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)



www.clarkquinnlaw.com

**Russell L. Brown**  
Attorney at Law  
rbrown@clarkquinnlaw.com

**320 N. Meridian St., Ste. 1100**  
**Indianapolis, IN 46204**  
**(317) 637-1321 main**  
**(317) 687-2344 fax**

March 26, 2024

Via Certified Mail, Return Receipt Requested  
9589 0710 5270 0471 4853 58

Hon. Larry Wilson  
P.O. Box 149  
Edmonton, KY 42129

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2024-00077  
Site Name: Willow Shade West

Dear Judge Holbrook:

Cellco Partnership, d/b/a Verizon Wireless and TAG Towers, LLC is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility at 6981 KY-90 (Summer Shade Road), Summer Shade, KY 42166 (North Latitude: (36° 51' 21.64", West Longitude 85° 38' 35.2"). The proposed facility will include a 255-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00077 in any correspondence sent in connection with this matter.

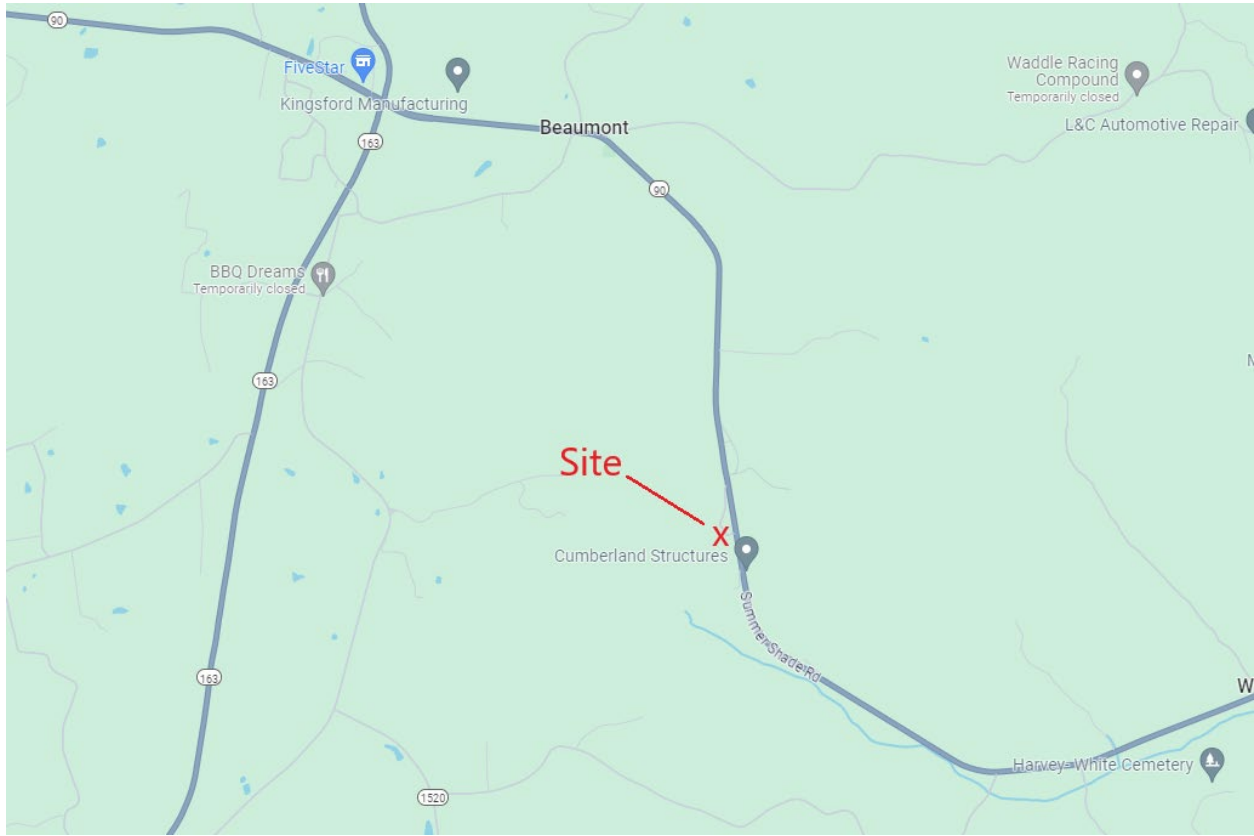
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,  
Russell L. Brown

A handwritten signature in black ink, appearing to read 'R. Brown', written over a horizontal line.

Attorney for Applicant

# Location Map



CERTIFIED MAIL®

ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 0471 4853 58

FIRST-CLASS

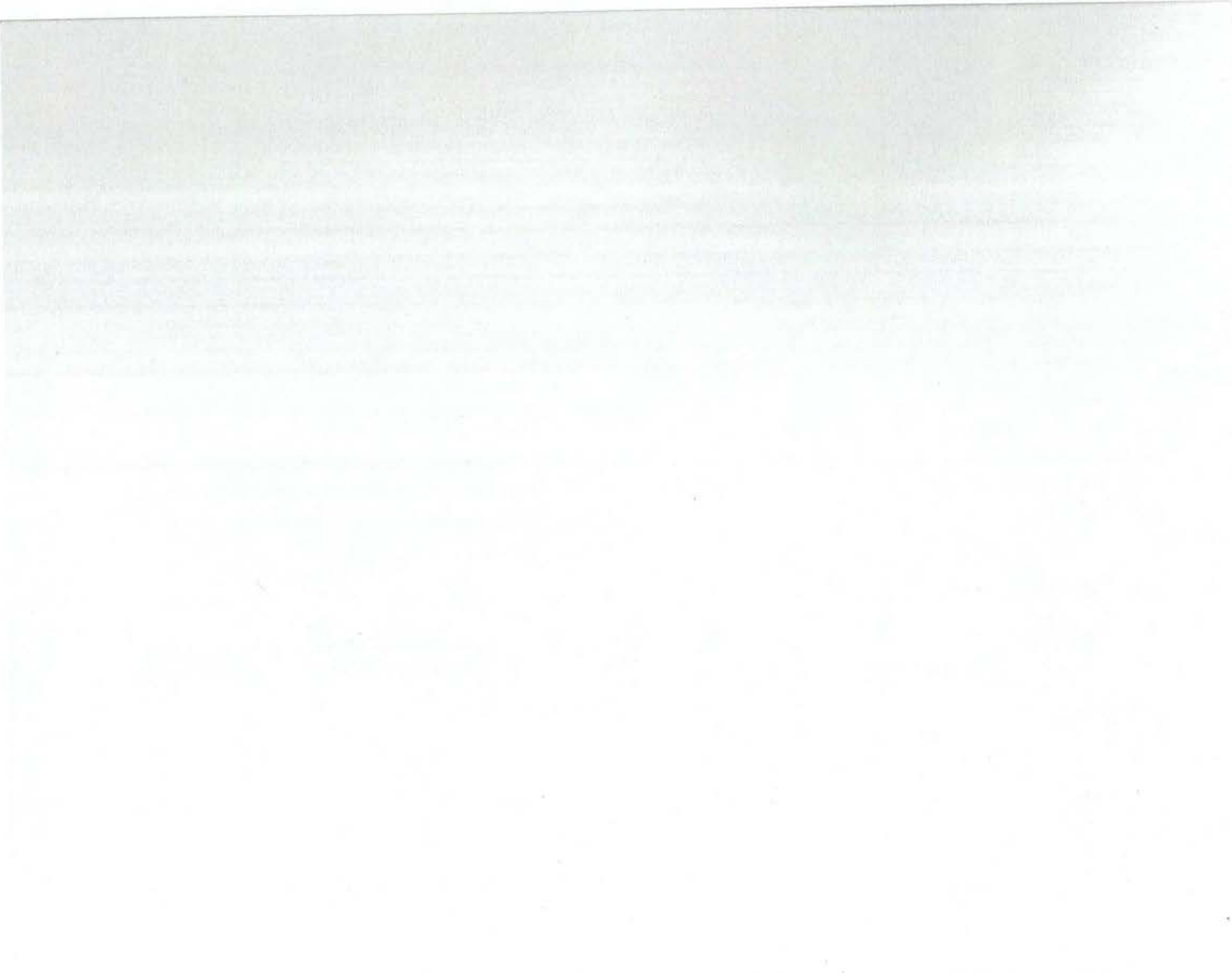


US POSTAGE™PITNEY BOWES



ZIP 46204 \$ 008.69<sup>0</sup>  
02 7H  
0006035028 MAR 26 2024

Hon. Larry Wilson  
P.O. Box 149  
Edmonton, KY 42129



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hon. Larry Wilson  
P.O. Box 149  
Edmonton, KY 42129



9590 9402 8749 3310 9107 37

2. Article Number (Transfer from service label)

9589 0710 5270 0471 4853 58

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Lorrie Gilpin*

- Agent
- Addressee

B. Received by (Printed Name)

Lorrie Gilpin

C. Date of Delivery

4/1/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery
- Mail Restricted Delivery (00)

## SITE NAME: WILLOW SHADE WEST NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

TAG Towers and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahm, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00077 in your correspondence.

TAG Towers and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahm, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00077 in your correspondence.





Robert B. Scott  
Charles R. Grahn  
Frank D. Otte\*  
John "Bart" Herriman  
William W. Gooden\*\*  
Michael P. Maxwell  
Russell L. Brown\*\*†  
Jennifer F. Perry  
Keith L. Beall  
N. Davey Neal  
Travis W. Cohron  
Maggie L. Sadler  
Kristin A. McIlwain  
Olivia A. Hess

VIA EMAIL: [heraldnews@jpinews.com](mailto:heraldnews@jpinews.com)

---

Land Use Consultant  
Elizabeth Bentz Williams, AICP

---

Edmonton Herald-News  
116 S. Main St. P.O. Box 87  
Edmonton, KY 42129

\*Also admitted in Montana  
†Also admitted in Kentucky  
\*\*

Registered Civil Mediator

RE: Legal Notice Advertisement  
Site Name: Willow Shade West

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of the Edmonton Herald-News Publication:

**NOTICE**

**Cellco Partnership, d/b/a Verizon Wireless and TAG Towers, LLC is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 6981 KY-90 (Summer Shade Road), Summer Shade, KY 42166 (North Latitude: (36° 51' 21.64", West Longitude 85° 38' 35.2"). The proposed facility will include a 255-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00077 in any correspondence sent in connection with this matter.**

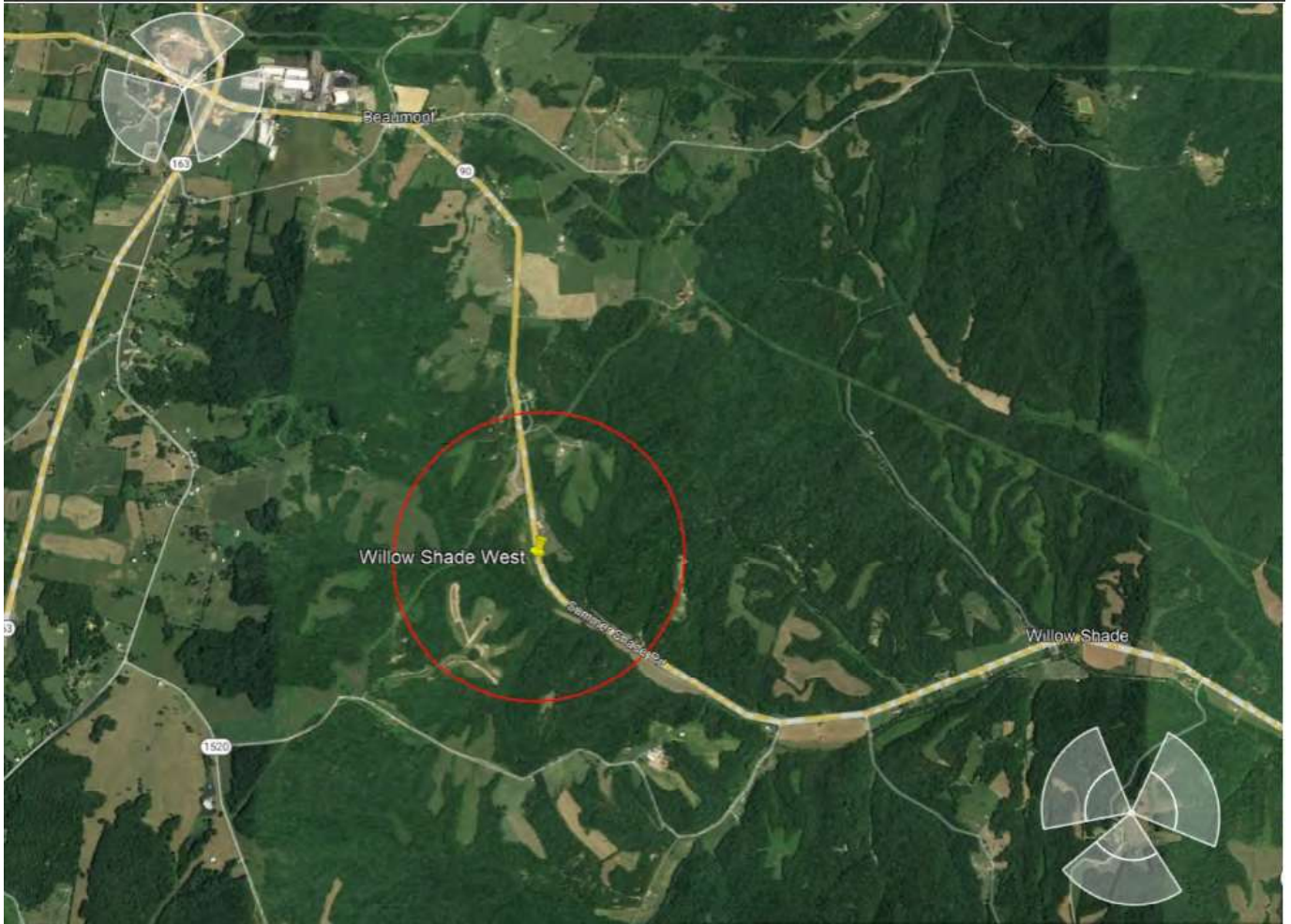
After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to [ebw@clarkquinnlaw.com](mailto:ebw@clarkquinnlaw.com). Please call me on my cell with any questions at 317-902-2187 if you have any questions. Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Bentz Williams'.

Elizabeth Bentz Williams, AICP

# SARF Map





March 19, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications

Facility Site Name: CK Willow Shade West

Type of Tower: 255ft. Self Support Lattice

Location: 6981 KY-90, Summer Shade, KY 42166

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called, CK Willow Shade West.

The CK Willow Shade West site is proposed with the below objectives:

1. To improve service along Kentucky Route 90.
2. To offload existing traffic of existing Verizon sites in this area.

Currently the area is experiencing poor service along Kentucky Route 90. There is a high demand for wireless high-speed data and phone service in this area. This tower is needed to provide all Verizon customers in the area with the best experience on their wireless devices.

Raw Land – Design plans for a new tower would provide overall tower height of 255' with a Verizon Wireless Centerline of 250'. The new structure height was decided upon to best cover Kentucky Route 90 and to offload traffic from the nearby existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. The new structure is proposed to be placed near the center of the problem area. The new tower design solves the stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. Verizon Wireless is currently collocated on some existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed site.



Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

Steven Belcher  
Sr. RF Engineer  
*Verizon Wireless*





March 13, 2024

RE: Zoning Plots

Site Name: CK Willow Shade West

To Whom It May Concern:

This map is not a guarantee of coverage and may contain areas with no service. This map reflects a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, outages, customer's equipment, terrain, proximity to buildings, foliage, and weather that may impact service.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Belcher", with a long, sweeping underline.

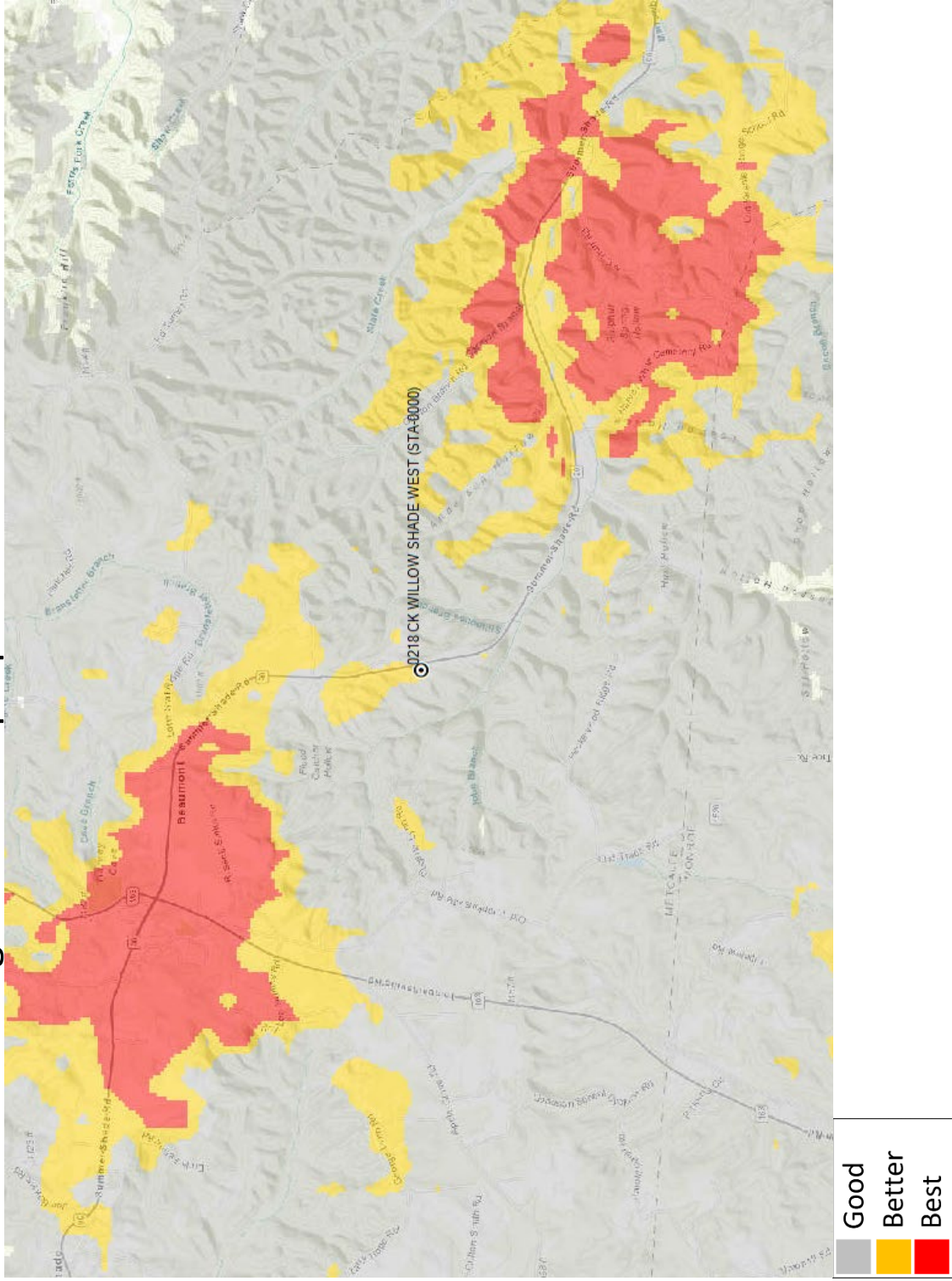
Steven Belcher

Sr RF Engineer

**Verizon Wireless**

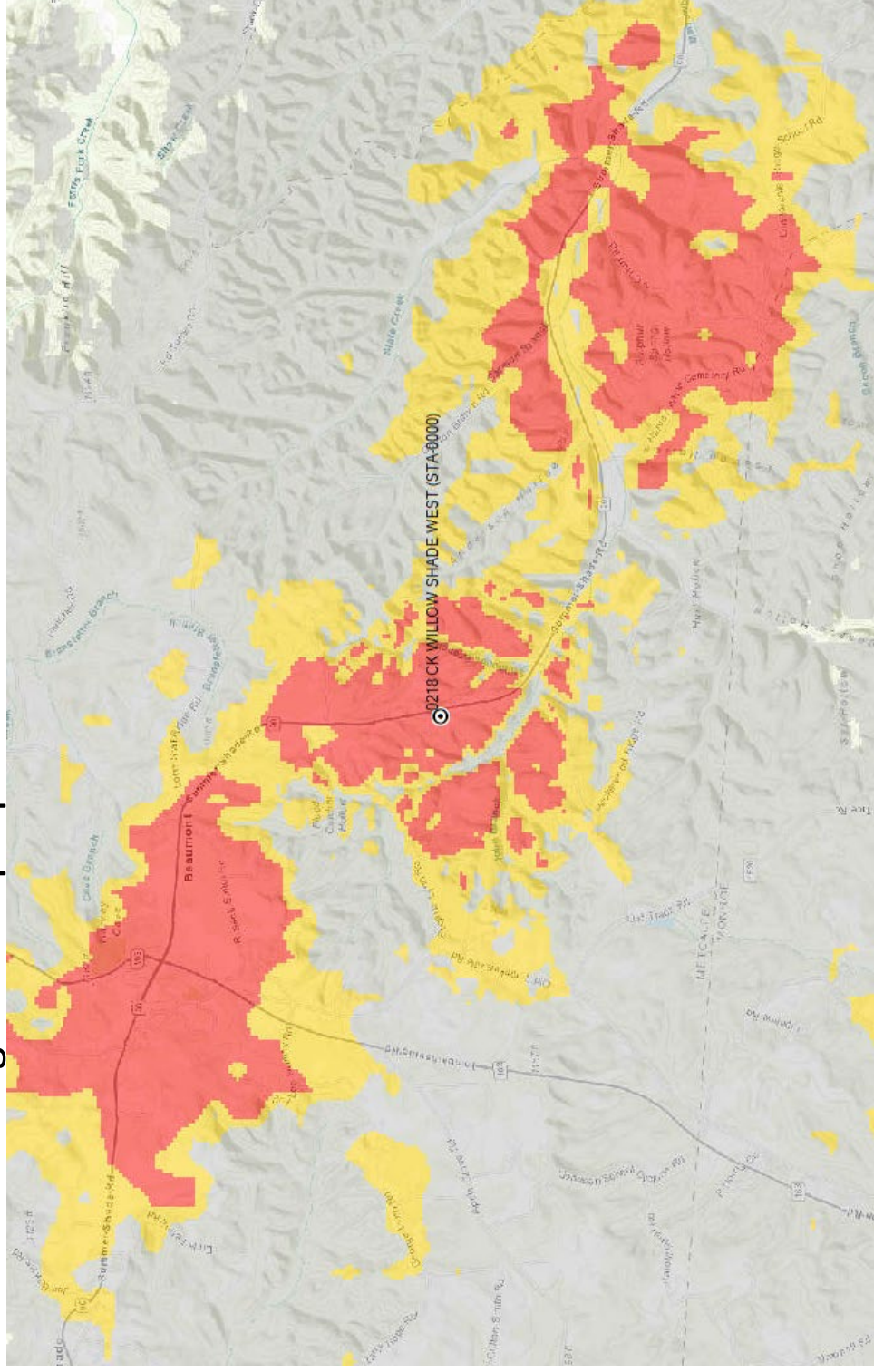


# Current Coverage - Without proposed site CK Willow Shade West





# Coverage - With proposed site CK Willow Shade West



**Exhibit S**  
**List of Qualified Professionals**

Frank L. Sellinger  
Professional Land Surveyor  
Kentucky License 3282  
FSTAN  
1012 S. 4<sup>th</sup> Street, Suite 101  
Louisville, KY 40203

Dmitriy V. Albul  
Professional Engineer  
Kentucky License 25093  
Albul Enginneering  
3840 E. Robinson Rd.  
Amherst, NY 14223

Frederic Geoffrey Bost  
Professional Engineer  
Kentucky License 28817  
Engineered Tower Solutions, PLLC  
3227 Wellington Court  
Raleigh, NC 27615

Allen Schneider  
Professional Engineer  
Kentucky License 37506  
ROHN  
1 Fairholm Avenue  
Peoria, IL 61603

Larry Rhoads  
Construction Manager  
Verizon Wireless  
2421 Holloway Road  
Louisville, KY 40299

Stephen Belcher  
RF Engineer  
Verizon Wireless  
2421 Holloway Road  
Louisville, KY 40299



