

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

In the Matter of:

THE APPLICATION OF)
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)
AND VB BTS II, LLC D/B/A VERTICAL BRIDGE)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO. 2024-00220
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF CASEY)

SITE NAME: CLEMENTSVILLE

* * * * *

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

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge (“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 Co-Applicants 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. VB BTS II, LLC d/b/a Vertical Bridge, having an address of 750 Park of Commerce Dr, Boca Raton, FL 33487.
- 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 Amended Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibits A**.
 - b. VB BTS II, LLC d/b/a Vertical Bridge is a Delaware Limited Liability Company organized in the State of Delaware. We attest that VB BTS II, LLC d/b/a Vertical Bridge is in good standing with the State of Delaware and is also authorized to transact business in the Commonwealth of Kentucky. A copy of the Delaware Certificate of Formation and Certificate of Good Standing is included as part of **Exhibits A**. The Certificate of Authority is on file with the Secretary of State of Commonwealth of Kentucky and is included as part of **Exhibits 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 Co-Applicants submit 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, Cellco Partnership, d/b/a Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicant's FCC Application and Licenses

with Authorization to provide wireless services are attached to this Application 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-Applicants' 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, Cellco Partnership, d/b/a Verizon Wireless'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 Co-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 340 Casey Creek Road, Liberty, KY 42539 (North Latitude: (37° 17' 42.0", West Longitude 85° 5' 26.00")), 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 Mark Woodrum pursuant to a Deed recorded at Deed Book 289, Page 161 in the office of the County Clerk.

The Co-Applicant's state and attest the proposed WCF will consist of a 245-foot-tall tower, with an approximately 10-foot-tall lightning arrestor attached at the top, for a total height of 255-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 Co-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 Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless 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 Co-Applicant's antennas on an existing structure. When suitable towers or structures exist, Co-Applicant's attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Co-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 for Federal Aviation Administration's ("FAA") and the FAA Determination of No Hazard to Air Navigation are attached as **Exhibit F**.

12. A copy of Application to and Approval from the Kentucky Airport Zoning Commission ("KAZC") are attached as **Exhibit G**.

13. A geotechnical engineering report was performed by Delta Oaks Group, Raleigh, NC, dated May 8, 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 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. Co-Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement 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 21045C0225D dated July 7, 2007.

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, every owner of real estate within 200 feet of the access road including intersection with the public street system and all abutting property owners (according to the records maintained by the County Property Valuation Administrator). Attached as **Exhibit K** is the Notification List using the PVA records verified and updated using the Casey County PVA on July 10, 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 to 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. The PVA records were investigated to verify the ownership and mailing addresses on July 10, 2024. A copy of the form of the notice sent by certified mail to each

landowner on July 11, 2024, is attached as **Exhibit L**. Seventeen (17) notices were sent to surrounding property owners; to date, thirteen (13) notice green cards have been returned. USPS tracking indicates that one (1) notice has been delivered and three (3) notices are noted as “attempted delivery on July 15 with notice left to reschedule delivery”. New notice has been sent to these three (3) owners, on July 29th. A copy of the form of the notice sent by certified mail to the 3 remaining landowners on July 29, 2024, is attached as **Exhibit L-1**.

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 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 will be 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 Casey County, Kentucky. The area is largely a wooded area with large agricultural fields. There are a few scattered residential properties. The terrain in this area is extreme. There is no zoning or Plan Commission in Casey County. The general area where the proposed facility is open, surrounded by trees. The nearest residential structure is 981 feet from the proposed tower site.

25. The process that was used by the Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless 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. Co-Applicant's radio frequency engineers have conducted studies and tests 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 Co-Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Co-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 Engineers' Statement of Need and Propagation Maps

attached as **Exhibit Q and R**. 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.

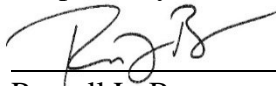
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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
Attorney for Cellco Partnership d/b/a Verizon Wireless

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,



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
Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

- A Co-Applicant Entities
- B FCC Application 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 and Map
- F FAA Application and Determination of no Hazard
- G KAZC Application and Approval
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing
- L July 11, 2024 Property Owner Notification
- L-1 July 29, 2024 Property Owner Notification
- M County Judge Executive Notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

Delaware

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

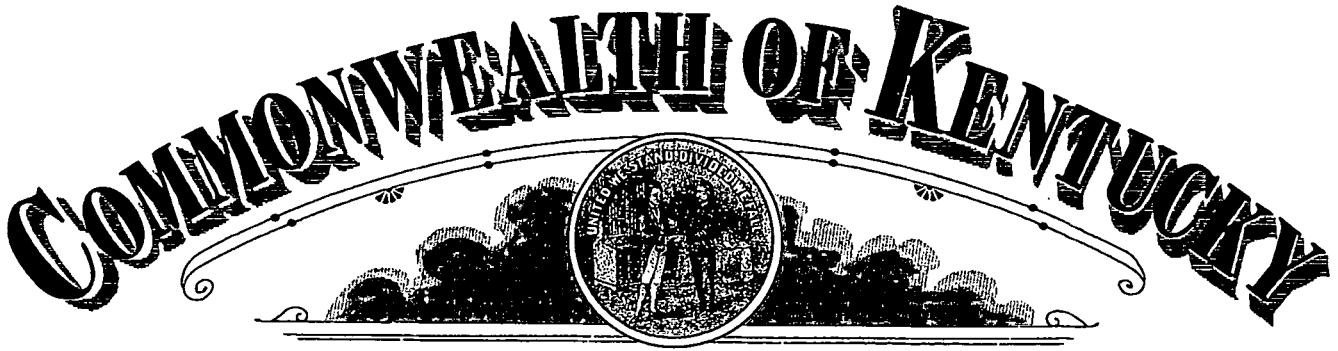
3341134 8300

SR# 20231665976

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203227418

Date: 04-27-23



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



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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.

General Partners of Cellco Partnership	Address
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 th Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7 th 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 THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "VB BTS II, LLC", FILED IN THIS OFFICE ON THE EIGHTH DAY OF JUNE, A.D. 2022, AT 1:01 O`CLOCK P.M.




Jeffrey W. Bullock, Secretary of State

6844426 8100
SR# 20222658754

Authentication: 203631822
Date: 06-08-22

You may verify this certificate online at corp.delaware.gov/authver.shtml

STATE OF DELAWARE
CERTIFICATE OF FORMATION
OF LIMITED LIABILITY COMPANY

The undersigned authorized person, desiring to form a limited liability company pursuant to the Limited Liability Company Act of the State of Delaware, hereby certifies as follows:

1. The name of the limited liability company is _____
VB BTS II, LLC

2. The Registered Office of the limited liability company in the State of Delaware is located at _____ 850 New Burton Road, Suite 201 _____ (street), in the City of _____ Dover _____, Zip Code _____ 19904 _____. The name of the Registered Agent at such address upon whom process against this limited liability company may be served is _____
COGENCY GLOBAL INC.

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:01 PM 06/08/2022
FILED 01:01 PM 06/08/2022
SR 20222658754 - File Number 6844426

By: _____ /s/ Daniel Marinberg
Authorized Person

Name: _____ Daniel Marinberg
Print or Type

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "VB BTS II, 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-THIRD DAY OF JANUARY, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "VB BTS II, LLC" WAS FORMED ON THE EIGHTH DAY OF JUNE, A.D. 2022.

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




Jeffrey W. Bullock, Secretary of State

6844426 8300

SR# 20230223025

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 202551773

Date: 01-23-23



202303080004
 FAYETTE CO, KY FEE \$46.00
 PRESENTED / LODGED: 03-08-2023 08:19:15 AM

RECORDED: 03-08-2023
 SUSAN LAMB
 CLERK
 BY: HALLIE WOOSLEY
 DEPUTY CLERK



COMMONWEALTH OF KENTUCKY
 MICHAEL G. ADAMS, SECRETARY OF STATE

1265644.06 mmoore
 ADD
 Michael G. Adams
 Kentucky Secretary of State
 Received and Filed:
 3/7/2023 12:33 PM
 Fee Receipt: \$90.00

BK: IB 428
 PG: 690-690

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:
- | | | |
|--|---|---|
| <input type="checkbox"/> profit corporation | <input checked="" type="checkbox"/> nonprofit corporation | <input type="checkbox"/> professional limited liability company |
| <input type="checkbox"/> business trust | <input type="checkbox"/> limited liability company | <input type="checkbox"/> statutory trust |
| <input type="checkbox"/> limited partnership | <input type="checkbox"/> llc cooperative association | <input type="checkbox"/> other |
| <input type="checkbox"/> non-profit llc | <input type="checkbox"/> professional service corporation | |

2. The name of the entity is VB BTS II, 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 6/8/2022 and the period of duration is _____
 (if left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is
750 Park of Commerce Drive, Suite 200 Boca Raton FL 33487
 Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
828 Lane Allen Road, Suite 219 Lexington KY 40504
 Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is Cogency Global Inc.

8. The names and business addresses of the entity's representatives (secretary, officers and directors, managers, trustees or general partners):

<u>Daniel Marinberg</u>	<u>750 Park of Commerce Dr, Ste 200</u>	<u>Boca Raton</u>	<u>FL</u>	<u>33487</u>
Name	Street or P.O. Box	City	State	Zip Code
Name	Street or P.O. Box	City	State	Zip Code
Name	Street or P.O. Box	City	State	Zip Code

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.

[Signature] Adam B. Ginder-Vice President & Associate General Counsel 03/07/23
 Signature of Authorized Representative Printed Name & Title Date

I, Cogency Global Inc., consent to serve as the registered agent on behalf of the business entity.

[Signature] Eric B Hood ASSISTANT SECRETARY 3/7/23
 Signature of Registered Agent Printed Name Title Date

ASR Application Search

Application A1277292**Application Detail**

File Number	A1277292	Constructed	
Registration Number		Dismantled	
NEPA		EMI	No

Application Information

Status	Pending	Date Received	04/17/2024
Purpose	Amendment	Entered	04/17/2024
Mode	Interactive		

Antenna Structure

Structure Type L TOWER - Lattice Tower

Location (in NAD83 Coordinates)

Lat/Long	37-17-41.9 N 085-05-26.0 W	Address	1054 murphy wolford Road (jh) KY-5198
City, State	Liberty , KY	County	CASEY
Zip	42539	Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	296.4	Overall Height Above Ground (AGL)	77.7
Overall Height Above Mean Sea Level	374.1	Overall Height Above Ground w/o Appurtenances	74.7

Proposed Marking and/or Lighting

FAA Style E

FAA Notification

FAA Study

FAA Issue Date

Owner & Contact Information

FRN	0033815929	Owner Entity Type	Limited Liability Company
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Owner

The Towers, LLC
Attention To: Matthew Bonfante
750 Park of Commerce Drive
Boca Raton , FL 33487

P: (561)406-4023
F:
E: FCC-FAA@verticalbridge.com

Contact

Bonfante , Matthew
Attention To: Matthew Bonfante
750 Park of Commerce Drive
Boca Raton , FL 33487

P: (561)406-4023
F:
E: FCC-FAA@verticalbridge.com

Environmental Compliance

Does the applicant request a Waiver of the Commission's rules for environmental notice?	No	Is the applicant submitting an Environmental Assessment?	No
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Is another Federal Agency taking responsibility for environmental review?

Does the applicant certify to No Significant Environmental Effect pursuant to Section

No

Reason for another Federal Agency taking responsibility for environmental review

Basis for Certification

Name of Federal Agency

Local Notice Date

National Notice Date

04/18/2024

Certification

Authorized Party HEFFERNAN, JULIE Title LEASING PROJECT MANAGER

Receipt Date 04/17/2024

Comments

Comments

None

History

Date

Event

02/20/2024

New Application Received

Trans Log

Date	Description	Existing Value	Requested Value
03/01/2024	Application : Identify the change type as Major or Minor	Minor	Major
03/01/2024	Environmental Compliance : National Notice Date	04/19/2024	03/15/2024
03/01/2024	Structure : The street address of the antenna structure	4338 Woods Creek Road	1054 murphy wolford Road (jh)

All Trans Log (7)

Pleadings

Pleading Type	Filer Name	Description	Date Entered
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None

Automated Letters

Date	Description
------	-------------

None

Attachments

Type	Description	Date Entered
------	-------------	--------------

None

CLOSE WINDOW

REFERENCE COPY

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign KNKN940	File Number 0009139416
Radio Service CL - Cellular	
Market Numer CMA448	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003715919

Market Name Kentucky 6 - Madison
--

Grant Date 09-01-2020	Effective Date 09-01-2020	Expiration Date 10-01-2030	Five Yr Build-Out Date	Print Date 09-01-2020
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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1 37-42-55.3 N 084-16-14.8 W

Address: WEST OF US-25 1.2 MILES SOUTH OF INTERSECTION OF US-25 & SR-876

City: RICHMOND **County:** MADISON **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 115.000

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	130.000	127.000	93.000	96.000	102.000	124.000	114.000
Transmitting ERP (watts)	74.000	74.000	74.000	74.000	74.000	74.000	74.000	74.000

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: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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2 37-25-40.3 N 084-21-51.8 W

Address: ON LEAR KNOB 3 MILES NW OF

City: BROADHEAD County: ROCKCASTLE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	175.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	198.000	128.000	158.000	168.000	166.000	183.000	199.000	202.000
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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3 37-17-21.3 N 084-15-51.8 W 430.0

Address: ON SAND HILL 2.6 MILES SOUTHWEST OF

City: LIVINGSTON County: ROCKCASTLE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	172.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	175.000	144.000	190.000	181.000	192.000	185.000	167.000	141.000
Transmitting ERP (watts)	47.000	22.000	19.000	41.000	90.000	114.000	120.000	102.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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4 37-08-57.3 N 084-05-58.8 W 408.0

Address: 1 MILE NORTH OF

City: LONDON County: LAUREL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	138.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.000	161.000	113.000	124.000	135.000	153.000	127.000	152.000
Transmitting ERP (watts)	40.000	34.000	54.000	128.000	146.000	137.000	146.000	95.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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5 37-36-05.3 N 084-39-36.8 W

Address: 4 MILES SOUTHWEST OF

City: LANCASTER County: LINCOLN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	128.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.000	148.000	120.000	148.000	104.000	119.000	100.000	148.000
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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7	37-01-05.3 N	084-34-53.8 W			
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Address: Hilltop, 2.2 miles NNE of

City: Burnside County: PULASKI State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	196.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	183.000	178.000	176.000	206.000	210.000	185.000	219.000	211.000
Transmitting ERP (watts)	0.310	0.160	0.170	0.190	16.270	73.910	75.320	20.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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8	37-38-52.6 N	084-47-12.9 W	297.5	91.4	1043353
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Address: 211 FOREST AVENUE

City: DANVILLE County: BOYLE 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)	88.800	101.000	95.900	80.700	60.400	47.100	83.700	90.000
Transmitting ERP (watts)	51.720	51.720	51.720	51.720	51.340	51.720	51.720	51.720

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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9	37-52-45.3 N	084-19-32.8 W	277.0		
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Address: 0.45 MILES NORTHEAST OF INTERSECTION OF I-75 & US-25/421 1 MILE ESE OF

City: CLAYS FERRY County: CLARK State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	109.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.000	122.000	158.000	111.000	90.000	121.000	102.000	77.000
Transmitting ERP (watts)	1.120	6.920	58.880	100.000	100.000	91.200	22.390	0.930

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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12	37-21-22.3 N	084-55-12.8 W	336.0		
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Address: On ridge 2 3/4 miles north-notheast of the town of liberty

City: Liberty County: CASEY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	117.000	132.000	144.000	114.000	152.000	158.000	146.000	159.000
Transmitting ERP (watts)	75.000	75.000	75.000	75.000	75.000	75.000	75.000	75.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-59-59.6 N	084-06-05.0 W	366.6	91.1	1002550

Address: (South Laurel site) 1652 N Highway 1223

City: CORBIN County: LAUREL 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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	60.890	180.300	71.530	58.190	0.640	0.640	0.640	4.200

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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	0.580	0.580	0.720	3.690	4.920	4.620	2.530	0.580

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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	46.980	2.590	0.640	0.640	0.640	8.220	89.280	172.970

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-46-29.3 N	084-19-15.8 W	287.4		

Address: MTSO CELL SITE: 124 S. KEENELAND DR

City: RICHMOND County: MADISON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	186.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	46.600	70.700	52.500	32.100	28.400	45.800	59.500	44.500
Transmitting ERP (watts)	88.000	181.800	171.600	177.600	162.000	53.600	17.200	19.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-32-51.3 N	084-19-58.8 W	378.0		

Address: BERA CELL SITE: 3.5 KILOMETERS SOUTHWEST OF

City: BERA County: MADISON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	100.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	173.900	164.000	127.800	71.600	126.700	133.400	156.000	194.700
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-04-42.3 N	084-48-36.8 W	366.3	91.1	1203424

Address: 3.4 miles East of Nancy, KY

City: Nancy County: PULASKI 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	163.100	170.400	196.600	188.000	195.900	164.000	150.900
Transmitting ERP (watts)	29.000	29.000	29.000	29.000	29.000	29.000	29.000	29.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-38-56.9 N	084-57-46.2 W	289.0	48.2	

Address: Perryville Cell Site: 710 Cox Street

City: Perryville County: BOYLE 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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	99.100	143.700	70.200	6.300	0.400	0.400	0.500	14.200

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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	0.400	1.600	33.200	128.600	132.400	39.100	2.200	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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	9.000	0.400	0.400	0.400	10.400	87.000	143.500	82.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-06-10.0 N	084-35-45.0 W	388.0	91.4	1043625

Address: (Somerset site) 500 Rock Query Road

City: SOMERSET County: PULASKI State: KY Construction Deadline: 05-30-2014

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	110.230	148.690	21.490	0.730	0.400	0.330	0.450	7.630

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	0.330	0.620	0.330	0.330	2.050	69.550	163.040	61.990

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-06-10.0 N	084-35-45.0 W	388.0	91.4	1043625

Address: (Somerset site) 500 Rock Query Road

City: SOMERSET **County:** PULASKI **State:** KY **Construction Deadline:** 05-30-2014

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	0.330	0.580	29.670	145.310	107.720	4.290	0.590	0.330

Control Points:

Control Pt. No. 2

Address: 500 W Dove Rd

City: Southlake **County:** TARRANT **State:** TX **Telephone Number:** (800)264-6620

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 2 columns: Call Sign (WPOK659), File Number (0010160394), and Radio Service (CW - PCS Broadband)

FCC Registration Number (FRN): 0003290673

Table with 4 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: WPOK659

File Number: 0010160394

Print Date: 02-10-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WPZX945), File Number (0009262040), and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

Table with 4 columns: Grant Date (09-06-2019), Effective Date (01-13-2021), Expiration Date (09-29-2029), Print Date (03-10-2021); Market Number (BTA423), Channel Block (C), Sub-Market Designator (2); Market Name (Somerset, KY); 1st Build-out Date (09-29-2004), 2nd Build-out Date (09-29-2009), 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. 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: WPZX945

File Number: 0009262040

Print Date: 03-10-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WQGA940), File Number (0009774996), 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: WQGA940

File Number: 0009774996

Print Date: 12-21-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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. 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: WQJQ692

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQJU901), File Number (0007638848), and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003715919

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.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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: RURAL CELLULAR CORPORATION

Call Sign: WQJU901

File Number: 0007638848

Print Date: 04-01-2017

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQUZ670), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003715919

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: RURAL CELLULAR CORPORATION

Call Sign: WQUZ670

File Number:

Print Date: 02-16-2023

The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal law or regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).

Reference Copy

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: WQUZ670

File Number:

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WRAM732	File Number 0009262182
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0003290673

Grant Date 01-09-2018	Effective Date 01-13-2021	Expiration Date 01-09-2030	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date 01-09-2024	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. 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: WRAM732

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WRBA642	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 09-07-2018	Effective Date 11-18-2022	Expiration Date 09-21-2028	Print Date 03-15-2023
Market Number BTA423	Channel Block L1	Sub-Market Designator 0	
Market Name Somerset, KY			
1st Build-out Date 06-01-2024	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. 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: WRBA642

File Number: 0010283156

Print Date: 03-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WREV443	File Number 0009262182
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 3	
Market Name Richmond, KY			
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. 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: WREV443

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WREV444), File Number (0009262182), 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: WREV444

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WRHE833	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 06-04-2020	Effective Date 11-18-2022	Expiration Date 06-04-2030	Print Date 03-15-2023
Market Number PEA096	Channel Block M1	Sub-Market Designator 0	
Market Name Richmond, KY			
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. 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: WRHE833

File Number: 0010283156

Print Date: 03-15-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WRNF549), 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: WRNF549

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 2 columns: Call Sign (WRNF554), File Number, and Radio Service (PM - 3.7 GHz Service)

FCC Registration Number (FRN): 0003290673

Table with 4 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: WRNF554

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRWF636), File Number (0010160917), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003715919

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.

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.

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: RURAL CELLULAR CORPORATION

Call Sign: WRWF636

File Number: 0010160917

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

**NEW 245' SELF SUPPORT TOWER
w/10' LIGHTNING ROD
TOTAL TOWER HEIGHT 255'**

TOWER OWNER SITE
CLEMENTSVILLE
SITE #: US-KY-5198

VERIZON WIRELESS SITE
CK CLEMETSVILLE
PROJECT#: 18735947
MARKET ID: MINKY
WDG#: 5000908540

SITE ADDRESS
340 CASEY CREEK ROAD,
LIBERTY, KY 42539

GENERAL INFORMATION
LATITUDE - 37° 17' 42.0" N
LONGITUDE - 85° 5' 26.0016" W
1983 (NAD83)
ELEVATION - 970' AMSL
1988 (NAVD88)

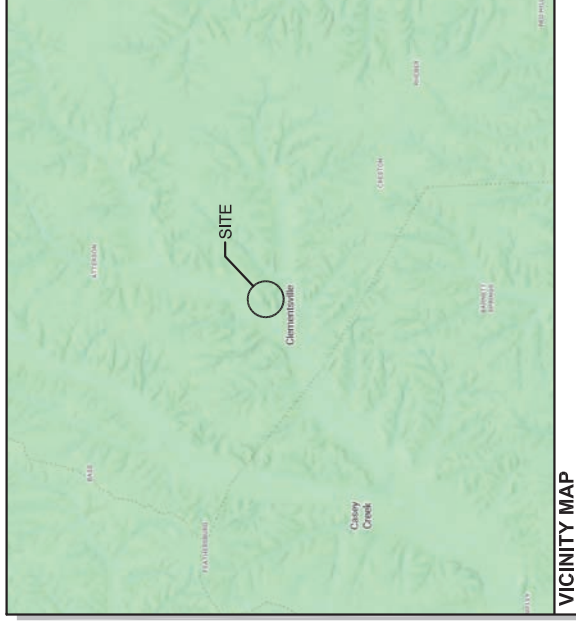
TOWER OWNER LEASE AREA
100'-0" x 100'-0"
(10000 SF)

TOWER OWNER
VERTICAL BRIDGE
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

PROPERTY OWNER
MARK WOODRUM
1054 MURPHY WOLFORD RD,
LIBERTY, KY 42539
PHONE: (606) 303-3424
E-MAIL: woodrumm27@yahoo.com

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

PROJECT SUMMARY

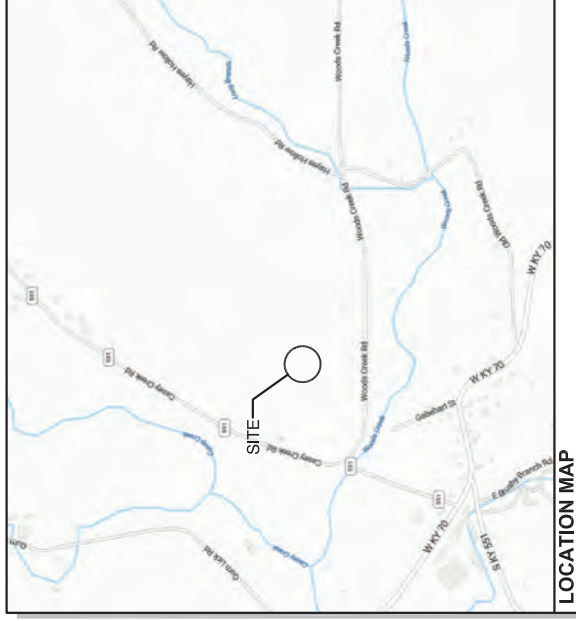


VICINITY MAP

PROJECT DESCRIPTION:
NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH INCLUDES VERIZON WIRELESS GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS. GENERAL: DESCRIBED BELOW:

- TOWER OWNER SCOPE:
 - PURCHASE NEW DELIVERY TO SITE OF VZW ANTENNA MOUNTING FRAME ASSEMBLY
 - INSTALL A NEW FENCED GRAVEL COMPOUND AND ALL GENERAL SITE CONSTRUCTION ITEMS
 - INSTALL A NEW GRAVEL ACCESS DRIVE
 - INSTALL NEW TOWER & SITE GROUNDING SYSTEM
 - INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
 - INSTALL NEW VZW CONCRETE EQUIPMENT PADS
 - INSTALL 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 EQUIPMENT PAD
 - INSTALL (1) NEW (FUTURE USE) FIBER OPTIC CONDUIT w/PULL TAPE AND TRACER WIRE FROM UTILITY H-FRAME TO 24"x36" HANDHOLE AT R.O.W.
 - INSTALL NEW VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
 - INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME UT FIBER LOCATION
 - INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH INTEGRAL EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 18"x18"x6" HOFFMAN BOX ON UTILITY H-FRAME THEN TO NEW 24"x36" HANDHOLE AT R.O.W.
 - "VERIZON WIRELESS ONLY" CONDUIT AND HANDHOLE SHALL BE LABELED AS "VERIZON WIRELESS ONLY"
 - PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY
- VERIZON WIRELESS SCOPE (VZW GC):
 - INSTALL VZW PREFABRICATED CANOPY AND FOUNDATIONS
 - INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
 - INSTALL VZW ANTENNAS, WINDS, COAX, GPS ANTENNA AND RADIO EQUIPMENT
 - INSTALL VZW SUBSURFACE GROUNDING SYSTEM
 - INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
 - INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
 - INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME

PROJECT DESCRIPTION



LOCATION MAP

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.

BUILDING CODE 2018 KENTUCKY BUILDING CODE (IBC 2015)
STRUCTURAL CODE IA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE 2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
PLUMBING CODE KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE 2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE 2012 NATIONAL FIRE CODE (2015 IFC)
ENERGY CODE 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE 2012 NATIONAL FUEL GAS CODE (NFPA 54)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.

APPLICABLE CODES

SURVEYOR
FSTAN
1012 S 4TH STREET, SUITE 101
LOUISVILLE, KY 40203
PHONE: (502) 636-5111
FAX: (502) 636-5263

ENGINEER
DMITRY ALBUL, P.E.
OFFICE PH: (716) 800-1364
LOUISVILLE, KY 42539
MOBILE PH: (716) 650-8147
EMAIL: DALBUL@ALBULENG.COM

ELECTRICAL
TBD

ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.

CONSULTANT TEAM



AERIAL

CLEMETSVILLE

US-KY-5198

340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

TENANT: RURAL CELLULAR CORP D/B/A VERIZON WIRELESS
"CLEMETSVILLE"
BUILDING #:

FROM 625 CAMPBELLSVILLE ST, LIBERTY, KY 42539: HEAD NORTHWEST ON CAMPBELLSVILLE ST TOWARD COURT HOUSE SQUARE (2.3 MILES), TURN RIGHT ONTO KY-70W (8.9 MILES), TURN RIGHT ONTO STATE HWY 551 (0.3 MILES), ARRIVE ON RIGHT AT 340 CASEY CREEK ROAD, LIBERTY, KY 42539

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
LS-1 TO LS-5	SURVEY PLAN
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 TO C-3	GRADING AND EROSION CONTROL OVERALL PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
C-5	DETAILED VZW EQUIPMENT PLAN
C-6	GENERAL SITE CONSTRUCTION NOTES
C-7	BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES
D-1	FENCE DETAILS AND NOTES
D-2	SITE DETAILS
D-3	EQUIPMENT PAD & CANOPY ELEVATIONS
D-4	VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)
D-5	TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)
S-1	EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES
S-2	ICE BRIDGE PLAN AND DETAILS
S-3	FOUNDATION PLAN AND DETAILS
TE-1	TOWER ELEVATION
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	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)
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
RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
REF-1	GENERATOR SPECIFICATIONS (REFERENCE ONLY)
PSC_MAP	PSC MAP -1
	PSC MAP -2

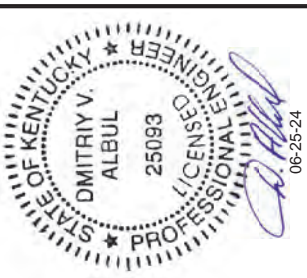


750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



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

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMETSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY





SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMETSVILLE

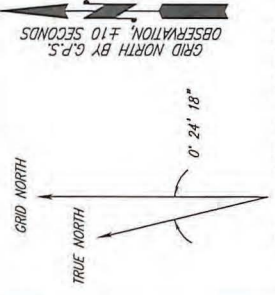
PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1
MK P10 & CANOPY REV 3 FINAL 10/16/23

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

NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MARCH 28, 2023.



COORDINATE POINT LOCATION
 MVD 1983
 LATITUDE: 37° 17' 41.93" N
 LONGITUDE: 85° 05' 26.00" W
 MVD 1988
 ELEVATION: 972.4'
 SINGLE STATE PLANE COORDINATE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NORTHING: 3631665.069
 EASTING: 5113023.052

PROJECT BENCHMARK
 NORTH: 3631810.714
 EAST: 5113127.352
 ELEVATION: 972.81
 LOCATION: BEING A 5/8" REBAR W/CAP NORTHEAST OF THE NORTHEAST CORNER OF THE LEASE AREA.



SYMBOL LEGEND

- WOOD 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
- G.W.P. GAS WARNING POST
- SPOT ELEVATION
- #5 REBAR TO BE SET AT TIME OF CONSTRUCTION
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

ABBREVIATIONS

- EG EDGE OF GRVEL
- EP EDGE OF PAVEMENT
- ROW APPARENT RIGHT OF WAY
- ℄ CENTERLINE
- RCP REINFORCED CONCRETE PIPE
- CONC CONCRETE
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- R SUBJECT PROPERTY LINE
- TC TOP OF CURB
- BC BOTTOM OF CURB
- POC POINT OF COMMENCING
- POB POINT OF BEGINNING
- IPC 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.

SURVEYOR'S NOTES

SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON MARCH 28, 2023, FROM A GPS CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - CAMPBELLVILLE 0 CORS APT, CONS_ID - KYCP_00 - 012172.
 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 AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.
 AT THE TIME OF THE SURVEY, THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR THE UTILITY EASEMENT. THERE ARE VISIBLE ENCROACHMENTS AFFECTING THE ACCESS & UTILITY EASEMENTS.
 THE LEASE AREA AND ALL EASEMENTS ARE ENTIRELY WITHIN THE PARENT PARCELS.
 THE ACCESS & UTILITY EASEMENTS ARE CONTIGUOUS WITH THE NORTH LINE OF THE LEASE AREA AND CONTIGUOUS WITH EACH OTHER AND THE APPARENT EAST RIGHT OF WAY LINE OF CASEY CREEK ROAD (A PUBLIC RIGHT-OF-WAY).
 THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.
 EXISTING CONTOURS ARE AT TWO FOOT INTERVALS.

SURVEYOR'S REVIEW OF "SPECIAL EXCEPTIONS"

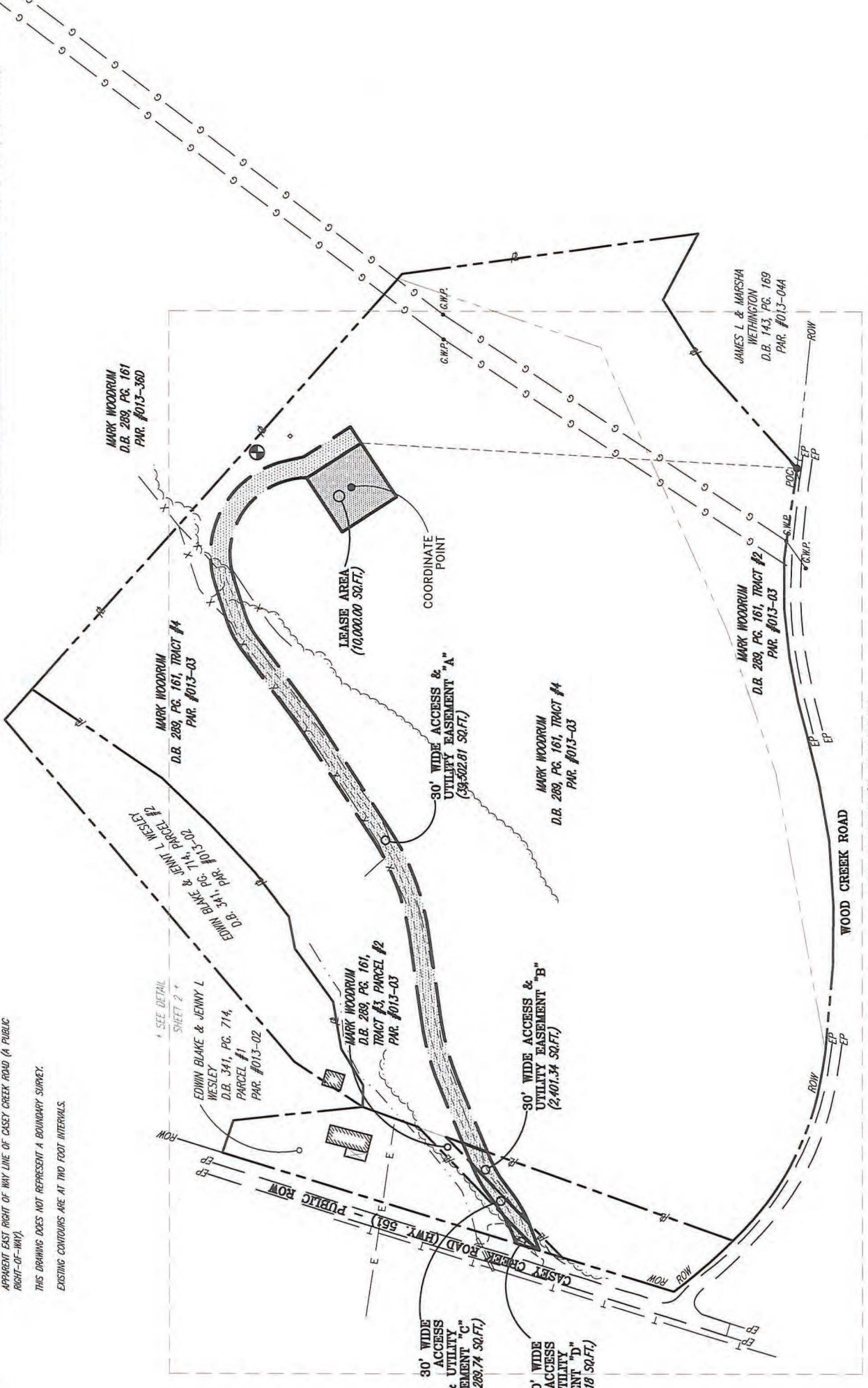
NOTES CORRESPONDING TO THE TOWER TITLE LLC, "A TA COMMITMENT FOR TITLE INSURANCE", COMMITMENT NUMBER: VTB-158747-C, FILE NUMBER: US-KY-5196, EFFECTIVE DATE: DECEMBER 12, 2023.
 10. Right of way as described in Deed of Conveyance between Howard Cabell and Leona Cabell, his wife, and Larry Stafford and Debbie Stafford his wife, as joint tenants, with right of survivorship, dated February 18, 1978 and recorded February 21, 1978 in (book) 100 (page) 190, in Casey County, Kentucky, (as to Tract 2 lower parcel) (DOES NOT AFFECT THE LEASE AREA OR THE ACCESS & UTILITY EASEMENTS SHOWN PER THIS SURVEY)
 11. Water rights reserved in the Deed of Conveyance dated October 28, 2002 and recorded November 4, 2002 in (book) 215 (page) 472 in Casey County, Kentucky, (as to Tract 1, lower parcel) (DOES NOT AFFECT THE LEASE AREA OR THE ACCESS & UTILITY EASEMENTS SHOWN PER THIS SURVEY)

QUAD MAP SCALE: 1" = 200'



LOCATION DESCRIPTION
 LOCATED ON THE PROPERTY COMEYED TO MARK WOODRUM IN DEED BOOK 289, PAGE 161, AND BEING IN CASEY COUNTY, KENTUCKY.

THIS SITE IS LOCATED ON THE CLEMENSTVILLE KENTUCKY USGS QUADRANGLE SHEET.
 The horizontal datum (contingencies) is referenced to the North American Datum 1983 (NAD 83) and is expressed in seconds and decimal parts thereof. The accuracy is within 15 feet horizontally. The site vertical datum (elevations and benchmarks) is in terms of the North American Vertical Datum of 1989 (NAVD 89) and is accurate to within 1/4 - 3 feet vertically.



"WIRELESS COMMUNICATION SITE SURVEY"

MARK WOODRUM APPROVAL: _____ DATE: _____
 EDWIN BLAKE & JENNY L WESLEY APPROVAL: _____ DATE: _____
 TENANT APPROVAL: _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21045C02250 DATED 07-07-2009 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".



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



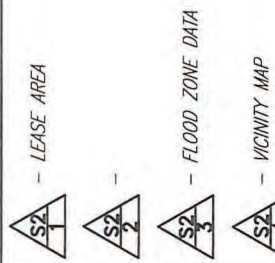
1012 S 4th Street, Suite 101
 Louisville, Ky 40203
 Phone: (502) 636-5111
 Fax: (502) 636-5263

SITE NUMBER:	US-KY-5198
SITE NAME:	CLEMENSTVILLE
SITE ADDRESS:	340 CASEY CREEK ROAD LIBERTY, KY 42539
LEASE AREA:	10,000.00 SQ.FT.
PROPERTY OWNER (TOWER):	MARK WOODRUM 1054 MURPHY WOLFORD RD LIBERTY, KY 42539
PARCEL NUMBER (TOWER):	013-03
SOURCE OF TITLE (TOWER):	D.B. 289, PG. 161
PROPERTY OWNER (ACCESS):	EDWIN BLAKE & JENNY L WESLEY 4106 TENNESSEE RIDGE ROAD LIBERTY, KY 42539
PARCEL NUMBER (ACCESS):	013-02
SOURCE OF TITLE (ACCESS):	D.B. 341, PG. 714, PARCEL #1
DWG BY: SMS	FIELD DATE: DRAFT DATE:
CHKD BY: ELS	03.28.23 04.17.23
FSTAN PROJECT NO.:	22-11664

SHEET 1 OF 5

REVISIONS:
 ADD CONTOURS - 06.02.23
 VERTICAL BRIDGE-02.02.24 (2411952)
 OLC NOTES - 02.16.24

RAWLAND



COORDINATE POINT LOCATION
 WVD 1983
 NORTH: 37° 17' 41.93" N
 LONGITUDE: 85° 05' 26.00" W
 NAVD 1988
 ELEVATION: 972.4'
 SINGLE STATE PLANE COORDINATE CALCULATOR (VERSION 3.0)
 NORTHING: 3631665.069
 EASTING: 5113073.052

PROJECT BENCHMARK
 NORTH: 3631810.714
 EAST: 5113127.352
 ELEVATION: 972.81'
 LOCATION: BEING A 5/8" REBAR W/CAP NORTHEAST CORNER OF THE LEASE AREA.

30' WIDE ACCESS & UTILITY EASEMENT "A"
 (59,502.81 SQ.FT.)

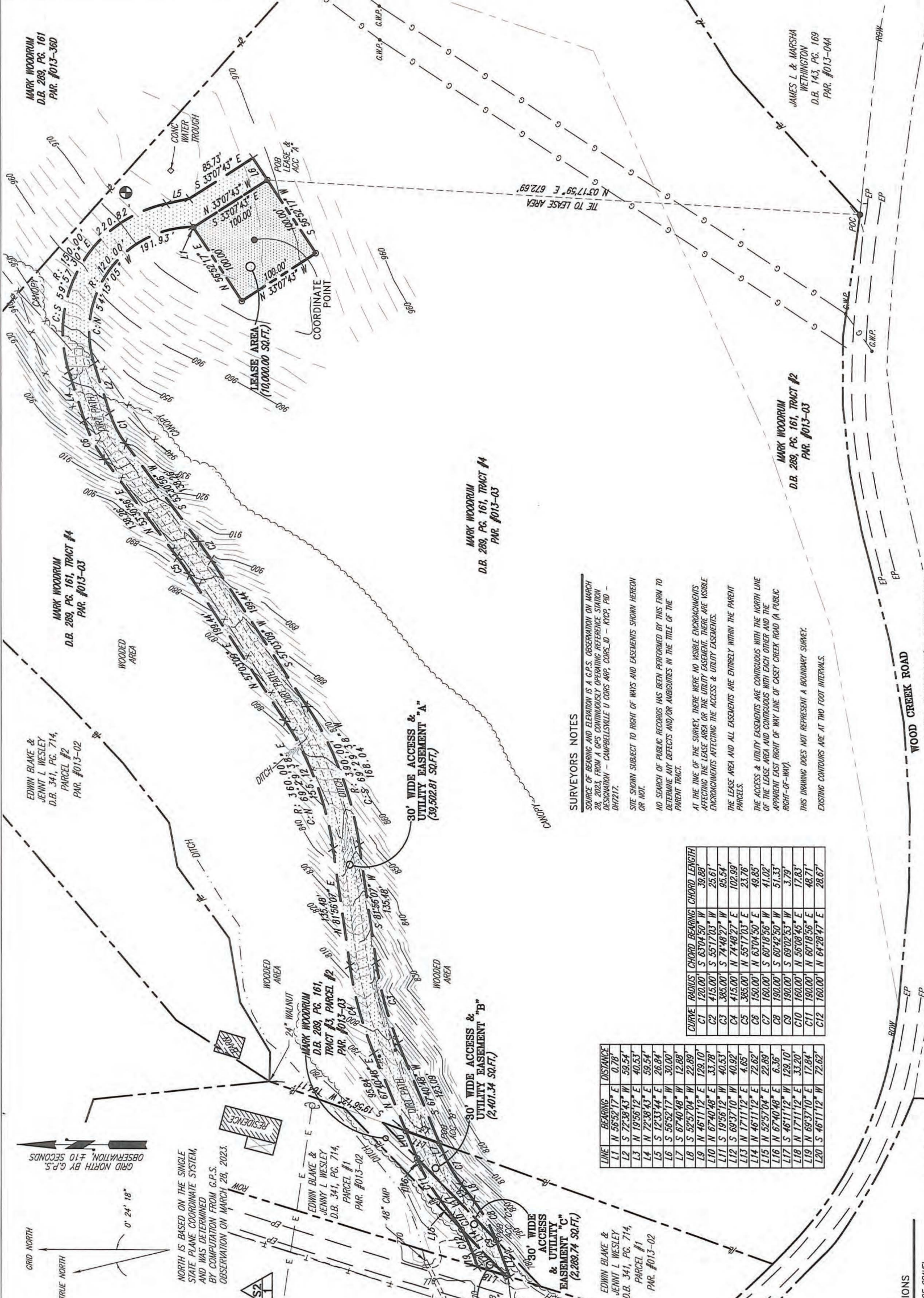
30' WIDE ACCESS & UTILITY EASEMENT "B"
 (2,407.34 SQ.FT.)

30' WIDE ACCESS & UTILITY EASEMENT "C"
 (2,288.74 SQ.FT.)

30' WIDE ACCESS & UTILITY EASEMENT "D"
 (58.18 SQ.FT.)



Know what's below. Call before you dig.
 The utility information shown on this plan, including records and/or field locations, has been obtained from the appropriate utility company and is correct.



SURVEYOR'S NOTES
 SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON MARCH 28, 2023, FROM A G.P.S. CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - CHAPPELLVILLE U CORP ARP, CORP_ID - KYCP, PD - DHT217.
 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 AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.
 AT THE TIME OF THE SURVEY, THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR THE UTILITY EASEMENTS. THERE ARE VISIBLE ENCROACHMENTS AFFECTING THE ACCESS & UTILITY EASEMENTS.
 THE LEASE AREA AND ALL EASEMENTS ARE ENTIRELY WITHIN THE PARENT PARCELS.
 THE ACCESS & UTILITY EASEMENTS ARE CONTIGUOUS WITH THE NORTH LINE OF THE LEASE AREA AND CONTIGUOUS WITH EACH OTHER AND THE APPARENT EAST RIGHT OF WAY LINE OF CASEY CREEK ROAD (A PUBLIC RIGHT-OF-WAY).
 THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.
 EXISTING CONTOURS ARE AT TWO FOOT INTERVALS.

LINE	BEARING	DISTANCE	CURVE	RADIUS	CHORD BEARING	CHORD LENGTH
L1	N 56°52'17" E	0.78	C1	120.00'	S 63°04'50" W	39.88'
L2	S 72°38'43" W	59.54	C2	415.00'	S 55°17'03" W	25.61'
L3	N 19°56'12" E	40.53	C3	365.00'	S 74°48'27" W	85.54'
L4	N 72°38'43" E	59.54	C4	415.00'	N 74°48'27" E	102.99'
L5	S 12°33'44" E	26.84	C5	365.00'	N 55°17'03" E	23.76'
L6	S 56°52'17" W	30.00	C6	150.00'	N 63°04'50" E	49.85'
L7	S 67°40'48" W	12.89	C7	160.00'	S 60°18'56" W	41.02'
L8	S 52°37'04" W	22.89	C8	160.00'	S 69°02'53" W	51.33'
L9	N 46°11'12" E	129.10	C9	160.00'	N 55°08'45" E	17.83'
L10	N 67°40'48" E	33.78	C10	160.00'	N 60°18'56" E	48.71'
L11	S 19°56'12" W	40.53	C11	160.00'	N 67°40'48" E	48.71'
L12	S 68°37'10" W	40.92	C12	160.00'	N 64°28'47" E	28.67'
L13	N 17°11'12" E	4.65				
L14	N 46°11'12" E	72.89				
L15	N 52°37'04" E	22.89				
L16	N 67°40'48" E	6.36				
L17	N 46°11'12" W	129.10				
L18	N 17°11'12" E	33.20				
L19	N 68°37'10" E	12.84				
L20	S 46°11'12" W	72.82				

SYMBOL LEGEND

- WOOD 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
- G.W.P. GAS WARNING POST
- SPOT ELEVATION
- REBAR TO BE SET AT TIME OF CONSTRUCTION
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

ABBREVIATIONS

- EG EDGE OF GRANEL
- EP EDGE OF PAVEMENT
- ROW APPARENT RIGHT OF WAY
- C CENTERLINE
- RCP REINFORCED CONCRETE PIPE
- CNC CONCRETE
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- PC SUBJECT PROPERTY LINE
- TC TOP OF CURB
- BC BOTTOM OF CURB
- POC POINT OF COMMENCING
- POB POINT OF BEGINNING
- IPC IRON PIN CAPPED

LINE LEGEND

- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD TELEPHONE & TELEPHONE 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 LINE STYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE.

STATE OF KENTUCKY

FRANK L. SELLINGER
 3282

LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE
 I hereby certify to Vertical Bridge, Inc., a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (if) Toronto Dominion (Texas) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to their certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdings, LLC, as borrower, and Vertical Bridge Holdings Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear, and Tower Hill, LLC that this plan and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, to the best of my knowledge and belief. This survey and plan meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded encumbrances or right-of ways not shown herein.

DATE: _____
 DATE: _____
 DATE: _____

MARK WOODRUM APPROVAL: _____
 EDWIN BLAKE & JENNY L WESLEY APPROVAL: _____
 TENANT APPROVAL: _____

FRANK L. SELLINGER, II
 KY. Reg. No. 3282

"WIRELESS COMMUNICATION SITE SURVEY"

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 2104500250 DATED 07-07-2009 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".



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




SITE NUMBER: US-KY-5198
SITE NAME: CLEMENTSVILLE
SITE ADDRESS: 340 CASEY CREEK ROAD LIBERTY, KY 42539
LEASE AREA: 10,000.00 SQ.FT.
PROPERTY OWNER (TOWER): MARK WOODRUM 1054 MURPHY WOLFORD RD LIBERTY, KY 42539
PARCEL NUMBER (TOWER): 013-03
SOURCE OF TITLE (TOWER): D.B. 289, PG. 161
PROPERTY OWNER (ACCESS): EDWIN BLAKE & JENNY L WESLEY 4106 TENNESSEE RIDGE ROAD LIBERTY, KY 42539
PARCEL NUMBER (ACCESS): 013-02
SOURCE OF TITLE (ACCESS): D.B. 341, PG. 714, PARCEL #1

DWG BY: SMS
FIELD DATE: 03.28.23
DRAFT DATE: 04.17.23
CHKD BY: FLS
FSTAN PROJECT NO.: 22-11664

SHEET 2 OF 5

REVISIONS:
 ADD CONTOURS - 06.02.23
 VERTICAL BRIDGE-02.02.24 (2411952)
 OLC NOTES - 02.16.24

RAWLAND

-  LEGAL DESCRIPTIONS (LEASE AREA) - LEGAL DESCRIPTIONS (ACCESS ESMT "C")
-  LEGAL DESCRIPTIONS (ACCESS ESMT "A") - LEGAL DESCRIPTIONS (ACCESS ESMT "D")
-  LEGAL DESCRIPTIONS (ACCESS ESMT "B")

LEGAL DESCRIPTIONS:

This is a description for Verizon Wireless, of a lease area to be located on the property conveyed to Mark Woodrum in Deed Book 289, Page 161, and being in Casey County, Kentucky which is further described as follows:

LEASE AREA

Being located on the property conveyed to Mark Woodrum in Deed Book 289, Page 161, and being in Casey County, Kentucky which is further described as follows: Commencing at a 5/8" iron rod found at a southeast corner of said Woodrum property and being the southwest corner of the property conveyed to James L. and Marsha Wellington in Deed Book 143, Page 169; Thence traversing said Woodrum property N 0317'59" E - 672.69' to an iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Lease Area; Thence S 65'52'17" W - 100.00' to an iron rod with a cap stamped "FSton 3282"; Thence N 33'07'43" W - 100.00' to an iron rod with a cap stamped "FSton 3282"; Thence S 56'52'17" E - 100.00' to the point of beginning, containing 10,000.00 square feet as per survey by Frank L. Sellinger, II dated May 22, 2023.

ACCESS & UTILITY EASEMENT "A"

Being located on the property conveyed to Mark Woodrum in Deed Book 289, Page 161, and being in Casey County, Kentucky which is further described as follows: Commencing at a 5/8" iron rod found at a southeast corner of said Woodrum property and being the southwest corner of the property conveyed to James L. and Marsha Wellington in Deed Book 143, Page 169; Thence traversing said Woodrum property N 0317'59" E - 672.69' to an iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Access & Utility Easement "A", also being the southeast corner of the Lease Area; Thence with the east line of said Lease Area N 33'07'43" W - 100.00' to an iron rod with a cap stamped "FSton 3282" at the northeast corner on said Lease Area; Thence leaving said Lease Area N 56'52'17" E - 0.78' to a point; Thence along a curve to the left with a radius of 120.00' and a chord of N 54'15'05" W - 191.93' to a point; Thence S 72'38'43" W - 59.54' to a point; Thence along a curve to the left with a radius of 138.26' to a point; Thence S 53'30'56" W - 138.26' to a point; Thence along a curve to the right with a radius of 415.00' and a chord of S 55'17'03" W - 25.61' to a point; Thence S 57'03'09" W - 199.44' to a point; Thence along a curve to the right with a radius of 390.00' and a chord of S 69'29'38" W - 168.04' to a point; Thence S 81'56'07" W - 135.48' to a point; Thence along a curve to the left with a radius of 385.00' and a chord of S 74'48'27" W - 95.54' to a point; Thence S 67'40'48" W - 123.09' to an iron rod with a cap stamped "FSton 3282" on the west line of said Woodrum property; Thence with said west line N 19'56'12" E - 40.53' to an iron rod with a cap stamped "FSton 3282" being located S 19'56'12" W - 164.11' from a 24" walnut tree on the northwest corner of said Woodrum property; Thence leaving west line and traversing said Woodrum property N 67'40'48" E - 95.84' to a point; Thence along a curve to the right with a radius of 415.00' and a chord of N 74'48'27" E - 102.99' to a point; Thence N 81'56'07" E - 135.48' to a point; Thence along a curve to the left with a radius of 360.00' and a chord of N 69'29'38" E - 155.12' to a point; Thence N 57'03'09" E - 199.44' to a point; Thence along a curve to the left with a radius of 360.00' and a chord of N 69'29'38" E - 155.12' to a point; Thence along a curve to the left with a radius of 385.00' and a chord of N 55'17'03" E - 23.76' to a point; Thence N 53'30'56" E - 138.26' to a point; Thence along a curve to the right with a radius of 150.00' and a chord of N 63'04'50" E - 49.85' to a point; Thence S 72'38'43" E - 59.54' to a point; Thence along a curve to the right with a radius of 150.00' and a chord of S 59'57'30" E - 220.82' to a point; Thence S 12'33'44" E - 26.84' to a point; Thence S 33'07'43" E - 85.73' to a point; Thence S 56'52'17" W - 30.00' to the point of beginning, containing 39,502.81 square feet as per survey by Frank L. Sellinger, II dated May 22, 2023.

ACCESS & UTILITY EASEMENT "B"

Being located on the property conveyed to Edwin Blake and Jenny L. Wesley in Deed Book 341, Page 714, and being in Casey County, Kentucky which is further described as follows: Commencing at a 5/8" iron rod found at a southeast corner of the property conveyed to Mark Woodrum in Deed Book 289, Page 161 and being the southwest corner of the property conveyed to James L. and Marsha Wellington in Deed Book 143, Page 169; Thence traversing said Woodrum property N 0317'59" E - 672.69' to an iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Access & Utility Easement "A", also being the southeast corner of the Lease Area; Thence with the perimeter of said Access & Utility Easement "A" for the next twelve (12) calls: (1) with the east line of said Lease Area N 33'07'43" W - 100.00' to an iron rod with a cap stamped "FSton 3282" at the northeast corner on said Lease Area; Thence (2) leaving said Lease Area N 56'52'17" E - 0.78' to a point; Thence (3) along a curve to the left with a radius of 120.00' and a chord of N 54'15'05" W - 191.93' to a point; Thence (4) S 72'38'43" W - 59.54' to a point; Thence (5) along a curve to the left with a radius of 120.00' and a chord of S 63'04'50" W - 39.88' to a point; Thence (6) S 53'30'56" W - 138.26' to a point; Thence (7) along a curve to the right with a radius of 415.00' and a chord of S 55'17'03" W - 25.61' to a point; Thence (8) S 57'03'09" W - 199.44' to a point; Thence (9) along a curve to the right with a radius of 390.00' and a chord of S 69'29'38" W - 168.04' to a point; Thence (10) S 81'56'07" W - 135.48' to a point; Thence (11) along a curve to the left with a radius of 385.00' and a chord of S 74'48'27" W - 95.54' to a point; Thence (12) S 67'40'48" W - 123.09' to an iron rod with a cap stamped "FSton 3282" on the west line of said Woodrum property, and being on the east line of said Wesley Property, and also being the True Point of Beginning of the Access & Utility Easement "B"; Thence leaving said Access & Utility Easement "A" and traversing said Wesley Property S 67'40'48" W - 12.88' to a point; Thence S 52'57'04" W - 22.89' to a point; Thence along a curve to the right with a radius of 180.00' and a chord of S 60'18'56" W - 41.02' to a point; Thence shared line said Woodrum property, and said Wesley Property; Thence leaving said shared line N 46'11'12" E - 129.10' to an iron rod with a cap stamped "FSton 3282"; Thence leaving said shared line and traversing said Wesley Property N 67'40'48" E - 33.78' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property being located S 19'56'12" W - 164.11' from a 24" walnut tree on the northwest corner of said Woodrum property; Thence with said shared line S 19'56'12" W - 40.53' to the point of beginning, containing 2,401.34 square feet as per survey by Frank L. Sellinger, II dated May 22, 2023.

ACCESS & UTILITY EASEMENT "C"

Being located on the property conveyed to Mark Woodrum in Deed Book 289, Page 161, and being in Casey County, Kentucky which is further described as follows: Commencing at a 5/8" iron rod found at a southeast corner of said Woodrum property and being the southwest corner of the property conveyed to James L. and Marsha Wellington in Deed Book 143, Page 169; Thence traversing said Woodrum property N 0317'59" E - 672.69' to an iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Access & Utility Easement "A", also being the southeast corner of the Lease Area; Thence with the perimeter of said Access & Utility Easement "A" for the next twelve (12) calls: (1) with the east line of said Lease Area N 33'07'43" W - 100.00' to an iron rod with a cap stamped "FSton 3282" at the northeast corner on said Lease Area; Thence (2) leaving said Lease Area N 56'52'17" E - 0.78' to a point; Thence (3) along a curve to the left with a radius of 120.00' and a chord of N 54'15'05" W - 191.93' to a point; Thence (4) S 72'38'43" W - 59.54' to a point; Thence (5) along a curve to the left with a radius of 120.00' and a chord of S 63'04'50" W - 39.88' to a point; Thence (6) S 53'30'56" W - 138.26' to a point; Thence (7) along a curve to the right with a radius of 415.00' and a chord of S 55'17'03" W - 25.61' to a point; Thence (8) S 57'03'09" W - 199.44' to a point; Thence (9) along a curve to the right with a radius of 390.00' and a chord of S 69'29'38" W - 168.04' to a point; Thence (10) S 81'56'07" W - 135.48' to a point; Thence (11) along a curve to the left with a radius of 385.00' and a chord of S 74'48'27" W - 95.54' to a point; Thence (12) S 67'40'48" W - 123.09' to an iron rod with a cap stamped "FSton 3282" on the west line of said Woodrum property, and being on the east line of said Wesley Property, and also being the southeast corner of the Access & Utility Easement "B"; Thence leaving said Access & Utility Easement "A" and traversing said Wesley Property with the south line of said Access & Utility Easement "B" for the next four (4) calls: (1) S 67'40'48" W - 12.88' to a point; Thence (2) along a curve to the left with a radius of 180.00' and a chord of S 60'18'56" W - 41.02' to a point; Thence (3) S 52'57'04" W - 22.89' to a point; Thence (4) along a curve to the right with a radius of 180.00' and a chord of S 60'18'56" W - 51.33' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property, and also being the True Point of Beginning of the Access & Utility Easement "C"; Thence leaving said Access & Utility Easement "B" and traversing said Woodrum property along a curve to the right with a radius of 190.00' and a chord of S 69'29'38" W - 3.79' to a point; Thence S 69'37'10" W - 40.92' to a point on the apparent east right-of-way Casey Creek Road; Thence with said apparent right-of-way N 17'11'12" E - 4.65' to a railroad spike at a corner of said Woodrum property; Thence leaving said Casey Creek Road with the north line of said Woodrum N 46'11'12" E - 72.62' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property; Thence leaving said shared line and traversing said Woodrum property along a curve to the left with a radius of 160.00' and a chord of N 56'08'45" E - 17.83' to a point; Thence N 52'57'04" E - 22.89' to a point; Thence along a curve to the right with a radius of 190.00' and a chord of N 60'18'56" E - 48.71' to a point; Thence S 67'40'48" E - 6.36' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property; Thence with said shared line S 46'11'12" W - 129.10' to the point of beginning, containing 2,401.34 square feet as per survey by Frank L. Sellinger, II dated May 22, 2023.

ACCESS & UTILITY EASEMENT "D"

Being located on the property conveyed to Edwin Blake and Jenny L. Wesley in Deed Book 341, Page 714, and being in Casey County, Kentucky which is further described as follows: Commencing at a 5/8" iron rod found at a southeast corner of the property conveyed to Mark Woodrum in Deed Book 289, Page 161 and being the southwest corner of the property conveyed to James L. and Marsha Wellington in Deed Book 143, Page 169; Thence traversing said Woodrum property N 0317'59" E - 672.69' to an iron rod with a cap stamped "FSton 3282", and being the True Point of Beginning of the Access & Utility Easement "A", also being the southeast corner of the Lease Area; Thence with the perimeter of said Access & Utility Easement "A" for the next twelve (12) calls: (1) with the east line of said Lease Area N 33'07'43" W - 100.00' to an iron rod with a cap stamped "FSton 3282" at the northeast corner on said Lease Area; Thence (2) leaving said Lease Area N 56'52'17" E - 0.78' to a point; Thence (3) along a curve to the left with a radius of 120.00' and a chord of N 54'15'05" W - 191.93' to a point; Thence (4) S 72'38'43" W - 59.54' to a point; Thence (5) along a curve to the left with a radius of 120.00' and a chord of S 63'04'50" W - 39.88' to a point; Thence (6) S 53'30'56" W - 138.26' to a point; Thence (7) along a curve to the right with a radius of 415.00' and a chord of S 55'17'03" W - 25.61' to a point; Thence (8) S 57'03'09" W - 199.44' to a point; Thence (9) along a curve to the right with a radius of 390.00' and a chord of S 69'29'38" W - 168.04' to a point; Thence (10) S 81'56'07" W - 135.48' to a point; Thence (11) along a curve to the left with a radius of 385.00' and a chord of S 74'48'27" W - 95.54' to a point; Thence (12) S 67'40'48" W - 123.09' to an iron rod with a cap stamped "FSton 3282" on the west line of said Woodrum property, and being on the east line of said Wesley Property, and also being the southeast corner of the Access & Utility Easement "B"; Thence leaving said Access & Utility Easement "A" and traversing said Wesley Property with the south line of said Access & Utility Easement "B" for the next four (4) calls: (1) S 67'40'48" W - 12.88' to a point; Thence (2) along a curve to the left with a radius of 180.00' and a chord of S 60'18'56" W - 41.02' to a point; Thence (3) S 52'57'04" W - 22.89' to a point; Thence (4) along a curve to the right with a radius of 180.00' and a chord of S 60'18'56" W - 51.33' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property, and also being the southeast corner of the Access & Utility Easement "C"; Thence leaving said Access & Utility Easement "B" and traversing said Woodrum property with the perimeter of said Access & Utility Easement "C" for the next three (3) calls: (1) along a curve to the right with a radius of 190.00' and a chord of S 69'29'38" W - 3.79' to a point; Thence (2) S 69'37'10" W - 40.92' to a point on the apparent east right-of-way Casey Creek Road; Thence (3) with said apparent right-of-way N 17'11'12" E - 4.65' to a railroad spike at a corner of said Wesley property, and also being the True Point of Beginning of the Access & Utility Easement "D"; Thence leaving said Access & Utility Easement "C" and continuing the said apparent Casey Creek Road right-of-way and the west line said Wesley property N 17'11'12" E - 33.70' to a point; Thence leaving said Casey Creek Road and traversing said Wesley property N 69'37'10" E - 17.84' to a point; Thence along a curve to the left with a radius of 180.00' and a chord of N 64'28'47" E - 28.67' to an iron rod with a cap stamped "FSton 3282" on a shared line said Woodrum property, and said Wesley Property; Thence with said shared line S 46'11'12" W - 72.62' to the point of beginning, containing 549.19 square feet as per survey by Frank L. Sellinger, II dated May 22, 2023.



LAND SURVEYOR'S CERTIFICATE I hereby certify to Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (b) Toronto Dominion (Ficus) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement, dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdco Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear, and Tower Title, LLC that this plat and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, 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 herein.

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: US-KY-5198 SITE NAME: CLEMENSVILLE SITE ADDRESS: 340 CASEY CREEK ROAD LIBERTY, KY 42539

LEASE AREA: 10,000.00 SQ.FT. PROPERTY OWNER (TOWER): MARK WOODRUM 1054 MURPHY WOLFORD RD LIBERTY, KY 42539

PARCEL NUMBER (TOWER): 013-03 SOURCE OF TITLE (TOWER): D.B. 289, PG. 161

PROPERTY OWNER (ACCESS): EDWIN BLAKE & JENNY L. WESLEY 4106 TENNESSEE RIDGE ROAD LIBERTY, KY 42539

PARCEL NUMBER (ACCESS): 013-02 SOURCE OF TITLE (ACCESS): D.B. 341, PG. 714, PARCEL #1

DWG BY: SMS FIELD DATE: DRAFT DATE: CHKD BY: FLS 03.28.23 04.17.23 FSTAN PROJECT NO.: 22-11664

SHEET 3 OF 5

REVISIONS: ADD CONTOURS - 06.02.23 VERTICAL BRIDGE-02.02.24 (2411952) OLC NOTES - 02.16.24

RAWLAND



LEGAL DESCRIPTIONS (TOWER PARENT TRACT)



LEGAL DESCRIPTIONS (ACCESS PARENT TRACT)



PARENT TRACT (TOWER) DESCRIPTION (PROVIDED BY OTHERS)

Tract 1
A certain tract or parcel of land lying on the waters of Casey Creek and on the north side of Kentucky Highway #70 in Casey County, Commonwealth of Kentucky and being more accurately described as follows:
Beginning at a stake in line of the north side of the Main Wellington property, thence with the north side of said Woods Creek Road as follows: North 80 degrees 09 minutes West 108 feet, North 79 degrees 10 minutes West 231.6 feet, North 76 degrees 10 minutes West 177 feet, South 87 degrees 57 minutes West 271 feet, South 89 degrees 59 minutes West 683 feet, South 89 degrees 57 minutes West 156.5 feet, South 83 degrees 57 minutes West 332 feet, South 89 degrees 53 minutes West 101.7 feet, North 86 degrees 20 minutes West 91.9 feet, North 81 degrees 19 minutes West 115.7 feet to an iron pin on the north side of said Woods Creek Road, corner of the Howard Cobehart property, (Page Book 25, Page 520). Thence with the west line of said Cobehart property as follows: North 83 degrees 08 minutes East 540.3 feet, North 75 degrees 08 minutes East 235.0 feet to an iron pin, North 89 degrees 53 minutes East 280.0 feet to an iron pin, North 28 degrees 40 minutes East 542.0 feet to a heavy iron corner of said Cobehart property and the Wellington property, thence with the line of the Wellington property South 04 degrees 09 minutes East 874.6 feet to the beginning, containing 4.7 acres, more or less.



PARENT TRACT (ACCESS) DESCRIPTION (PROVIDED BY OTHERS)

Tract One
One certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Casey Creek in said County and State and being more accurately described as follows:
Beginning at a walnut, corner to Robert Murphy; thence with Murphy's line S 20-1/2 W 40 rods to a stone where old road used to be, (formerly a fallen sugar tree) thence N 70-1/2 W 6 rods and 2 links to a stone at edge of right of way of Highway #551; thence with said right of way N 17 3/4 E 51 rods to a stone, thence 71 E 3 1/5 rods to a stone; thence S 6 E 12 2/5 rods to the beginning, containing 2 1/2 acres, more or less, as per survey of E.T. Cooper made on September 20, 1963.
There is excepted from the above described real property and not conveyed herein, the following described real property:
Beginning at a stake in line of James Wellington and Howard Cobehart. This stake is located S 20 1/2 E 6 rods and 22 links from a walnut old corner. This road is to be twenty feet wide, 10 feet on each side of the following center line: Beginning at the stake mentioned above, thence S 46 3/4 W 15 3/5 rods to the edge of right of way of Highway No. 551. Survey of a Roadway, James Wellington to Larry Stafford September 19, 1977, by E.T. Cooper, R.L.S. No. 1144. (DOES NOT AFFECT THE LEASE AREA OR THE ACCESS & UTILITY EASEMENTS SHOWN PER THIS SURVEY)

Tract Two
A certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Wood Creek in said county and State and being more accurately described as follows:
Beginning at a walnut, formerly an elm, corner to James M. Wellington; thence S 88 1/2 degrees E 2 rods to the branch; thence up the branch as it meanders with the following calls: N61 1/2 degrees E 4 rods, N 83 degrees E 4 1/2 rods, N 57 degrees E 6 rods and 3 links; N 82 degrees E 3 rods and 2 links; N 55 degrees E 5 rods and 4 links; N 49 1/2 degrees E 6 rods and 4 links; N 46 3/4 degrees E 6 rods and 7 links; N 46 3/4 degrees E 14 1/2 rods to a stake in old line; thence with old lines courses reversed N 45 1/2 degrees W with Verlin Wellington's line, 3 rods and 17 links to a beech; thence S 52 3/4 degrees W 41 4/5 poles to two beeches; thence S 33 1/2 degrees W 8 poles to the beginning, containing 2.05 acres, more or less. Surveyed by E.T. Cooper, Reg. Land Surveyor No. 1144.
Parcel ID: 013-02
Being the same property conveyed to Edwin Blake Wesley and Jenny L. Wesley, husband and wife in Special Warranty Deed from Teresa C. Garrett, single dated August 5, 2022 and recorded August 12, 2022 in Book 341 Page 714 Instrument No. 165046.

Tract 2
A certain tract or parcel of land lying and being in Casey County, Kentucky, on the waters of Casey Creek and being more particularly described as follows:
Beginning at a stake in line of James Wellington and Howard Cobehart. This stake is located S. 20-1/2 E. 6 rods and 22 links from a walnut old corner. This road is to be twenty feet wide, 10 feet on each side of the following center line: Beginning at the stake mentioned above, thence S. 46-3/4 W. 15-3/5 rods to the edge of right of way of Highway No. 551. Survey of a Roadway, James Wellington to Larry Stafford, September 19, 1977, by E. T. Cooper, R.L.S. No. 1144.
Tract 3
One certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Woods Creek in said County and State and being more particularly described by metes and bounds as follows, to-wit:
Beginning at a point in old road bed, where once stood a sugar tree; thence N. 20-1/2 E. 40 rods to an elm; thence N. 31- 1/2 E. 8 poles to two beeches; thence N 50 degrees 46 feet E 41-4/5 poles to a beech in Verlin Wellington's line; thence with said line S. 47-1/2 E. 56-2/5 rods to a stake; thence S. 20 degrees 46 feet W. 19-4/5 rods to a black oak; thence S. 67-3/4 W. 29-3/4 rods to a stone, with hickory pointer, S. 73 W. 14-3/5 rods to a black oak; S. 81 W. 31 rods and 3 links to a stone at edge of road; thence with old road N. 67-3/4 W. 15-4/5 rods to the beginning, containing 20 acres, more or less.
Exclusions: there is excluded from the above property the following tract of land:
Exclusion No. 1: a certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Woods Creek in said County and State and being more particularly described by metes and bounds as follows, to-wit:

Beginning at a walnut, formerly an elm, corner to James M. Wellington; thence S. 88-1/4 degrees E. 2 rods to the branch; thence up the branch as it meanders with the following calls: N. 61-1/2 degrees E. 4 rods; N. 83 degrees E. 4-1/2 rods and 3 links; N. 82 degrees E. 3 rods and 2 links; N. 55 degrees E. 5 rods and 4 links; N. 49-1/2 degrees E. 6 rods and 4 links; N. 46-3/4 degrees E. 6 rods and 7 links; N. 37 degrees E. 14-1/2 rods to a stake in old line; thence with old lines courses reversed N. 45-1/2 degrees W. with Verlin Wellington's line 3 rods and 17 links to a beech; thence S. 52-3/4 degrees W. 41-4/5 poles to two beeches; thence S. 33-1/2 degrees W. 8 poles to the beginning, containing 2.05 acres, more or less. Surveyed by E. T. Cooper, Reg. Land Surveyor No. 1144. (DOES NOT AFFECT THE LEASE AREA OR THE ACCESS & UTILITY EASEMENTS SHOWN PER THIS SURVEY)
Portion of Parcel ID: 013-03
being a portion of the same property conveyed to Mark Woodrum, single in Deed from Shalee R. Woodrum, single dated October 23, 2013 and recorded October 25, 2013 in Book 289 Page 161.



LAND SURVEYOR'S CERTIFICATE
I hereby certify to Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (i) Toronto Dominion (Texas) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to their certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdco Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear; and lower title, LLC that this plat and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, 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 herein.

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



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

SITE NUMBER: US-KY-5198
SITE NAME: CLEMENSTVILLE

SITE ADDRESS: 340 CASEY CREEK ROAD
LIBERTY, KY 42539

LEASE AREA: 10,000.00 SQ.FT.

PROPERTY OWNER (TOWER): MARK WOODRUM
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539

PARCEL NUMBER (TOWER): 013-03

SOURCE OF TITLE (TOWER): D.B. 289, PG. 161

PROPERTY OWNER (ACCESS): EDWIN BLAKE & JENNY L WESLEY
4106 TENNESSEE RIDGE ROAD
LIBERTY, KY 42539

PARCEL NUMBER (ACCESS): 013-02

SOURCE OF TITLE (ACCESS): D.B. 341, PG. 714, PARCEL #1

DWG BY: SMS FIELD DATE: DRAFT DATE:
CHKD BY: FLS 03.28.23 04.17.23

FSTAN PROJECT NO.: 22-11664

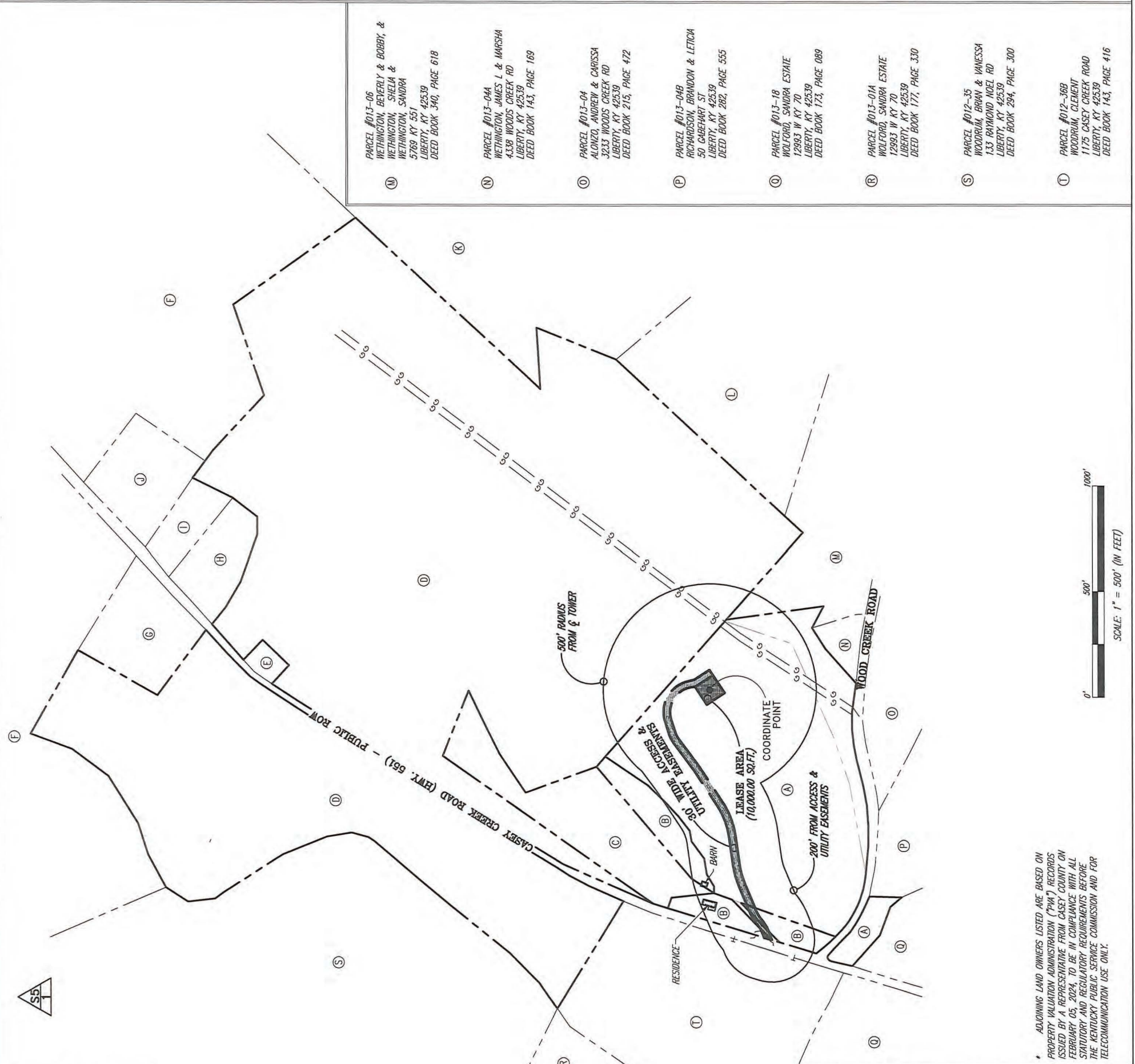
SHEET 4 OF 5

REVISIONS:
ADD CONTOURS - 06.02.23
VERTICAL BRIDGE-02.02.24 (2411952)
O.L.C. NOTES - 02.16.24

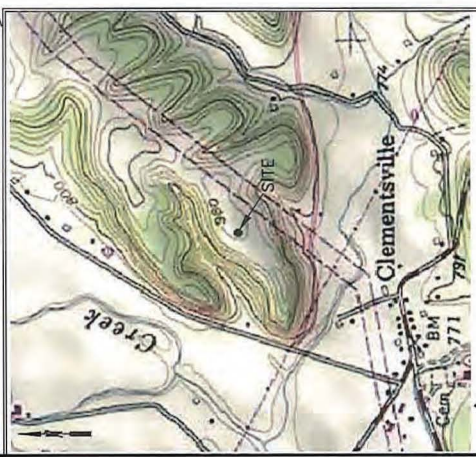
RAWLAND

- VICINITY AND 500' STRUCTURAL MAP
- ABUTTING PROPERTY OWNERS
- U.S.G.S. QUAD MAP

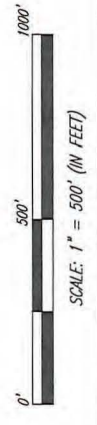
GRID NORTH BY G.P.S. OBSERVATION, ±10 SECONDS



* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS ISSUED BY A REPRESENTATIVE FROM CASEY COUNTY ON FEBRUARY 05, 2024, TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.



U.S.G.S. 7 1/2 MINUTE QUAD MAP OF CLEMENSVILLE
 QUAD MAP
 SCALE: 1"=2000'



SCALE: 1" = 500' (IN FEET)



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

SITE NUMBER:	US-KY-5198
SITE NAME:	CLEMENSVILLE
SITE ADDRESS:	340 CASEY CREEK ROAD LIBERTY, KY 42539
LEASE AREA:	10,000.00 SQ.FT.
PROPERTY OWNER (TOWER):	MARK WOODRUM 1054 MURPHY WOLFORD RD LIBERTY, KY 42539
PARCEL NUMBER (TOWER):	013-03
SOURCE OF TITLE (TOWER):	D.B. 289, PG. 161
PROPERTY OWNER (ACCESS):	EDWIN BLAKE & JENNY L WESLEY 4106 TENNESSEE RIDGE ROAD LIBERTY, KY 42539
PARCEL NUMBER (ACCESS):	013-02
SOURCE OF TITLE (ACCESS):	D.B. 341, PG. 714, PARCEL #1
DWG BY: SMS	FIELD DATE: DRAFT DATE:
CHKD BY: FLS	03.28.23 04.17.23
FSTAN PROJECT NO.:	22-11664
SHEET 5 OF 5	
REVISIONS:	
ADD CONTOURS - 06.02.23	
VERTICAL BRIDGE-02.02.24 (2411952)	
O.L.C NOTES - 02.16.24	
KY PSC EXHIBIT	

- (A) PARCEL #013-03
WOODRUM, MARK
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539
DEED BOOK 289, PAGE 161
- (B) PARCEL #013-02
WESLEY, EDWIN BLAKE & JENNY L
4106 TENNESSEE RIDGE RD
LIBERTY, KY 42539
DEED BOOK 341, PAGE 714
- (C) PARCEL #013-02A
WOODRUM, MARK A & KIRSTEN ANNE
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539
DEED BOOK 344, PAGE 667
- (D) PARCEL #012-36D
WOODRUM, MARK
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539
DEED BOOK 289, PAGE 161
- (E) PARCEL #013-03
WOODRUM, MARK
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539
DEED BOOK 289, PAGE 161
- (F) PARCEL #012-30
WOODRUM, IVA & CLEMENT
1175 CASEY CREEK RD
LIBERTY, KY 42539
DEED BOOK 238, PAGE 024
- (G) PARCEL #012-36C
WETHINGTON, JOSEPH GARY & BELIN
909 CASEY CREEK
LIBERTY, KY 42539
DEED BOOK 129, PAGE 552
- (H) PARCEL #012-37
DEWBINGER, ROGER
882 CASEY CREEK RD
LIBERTY, KY 42539
DEED BOOK 208, PAGE 103
- (I) PARCEL #012-38
CLEMENS, JODY & FAYE
960 CASEY CREEK RD
LIBERTY, KY 42539
DEED BOOK 204, PAGE 549
- (J) PARCEL #012-41
WOODRUM, CLEMENT & IVA
1175 CASEY CREEK RD
LIBERTY, KY 42539
DEED BOOK 313, PAGE 408
- (K) PARCEL #012-42
HALL, ODA & KATHRYN ESTATE
562 HAYES HOLLOW RD
LIBERTY, KY 42539
DEED BOOK 098, PAGE 523
- (L) PARCEL #013-05
WETHINGTON, BOBBY
959 GUM LICK RD
LIBERTY, KY 42539
DEED BOOK 320, PAGE 489
- (M) PARCEL #013-06
WETHINGTON, BEVERLY & BOBBY, &
WETHINGTON, SHEILA &
WETHINGTON, SANDRA
5789 KY 551
LIBERTY, KY 42539
DEED BOOK 340, PAGE 618
- (N) PARCEL #013-04A
WETHINGTON, JAMES L & MARSHA
4338 WOODS CREEK RD
LIBERTY, KY 42539
DEED BOOK 143, PAGE 169
- (O) PARCEL #013-04
ALONZO, ANDREW & CARISSA
3233 WOODS CREEK RD
LIBERTY, KY 42539
DEED BOOK 215, PAGE 472
- (P) PARCEL #013-04B
RICHARDSON, BRANDON & LETICIA
50 GABEHART ST
LIBERTY, KY 42539
DEED BOOK 282, PAGE 555
- (Q) PARCEL #013-18
WOLFORD, SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539
DEED BOOK 173, PAGE 089
- (R) PARCEL #013-01A
WOLFORD, SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539
DEED BOOK 177, PAGE 330
- (S) PARCEL #012-35
WOODRUM, BRANN & VANESSA
133 RAYMOND NOEL RD
LIBERTY, KY 42539
DEED BOOK 294, PAGE 300
- (T) PARCEL #012-36B
WOODRUM, CLEMENT
1175 CASEY CREEK ROAD
LIBERTY, KY 42539
DEED BOOK 143, PAGE 416

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

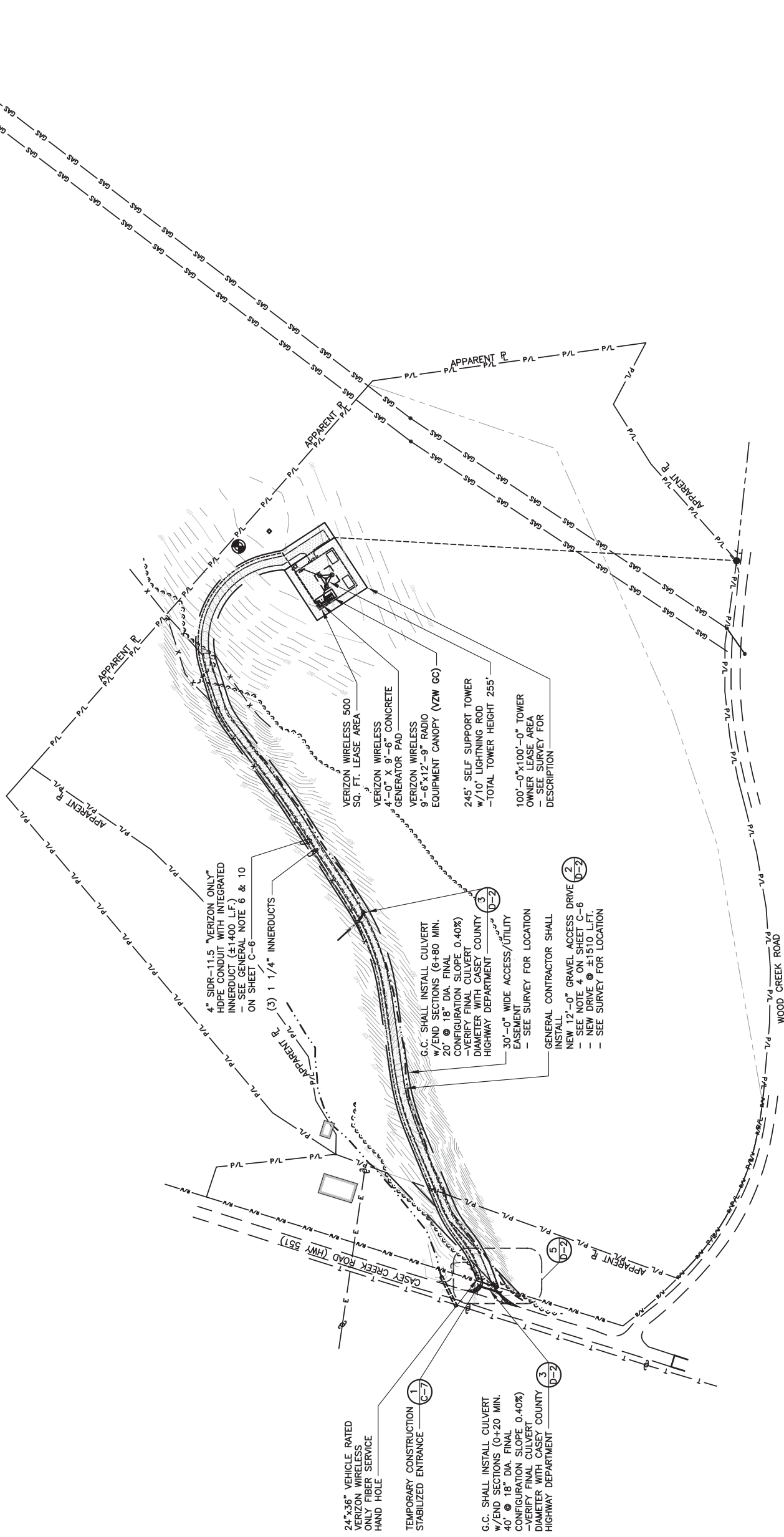
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
 DRAWN BY: RC
 CHECKED BY: PL
 DATE: 03.12.24

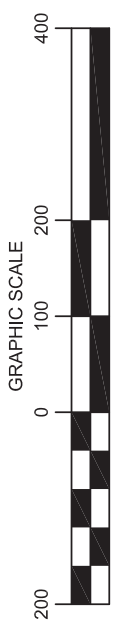
SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-0
 MK P10 & CANOPY 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 7 WORKING DAYS BEFORE COMMENCING WORK.



REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
OVERALL SITE PLAN w/AERIAL OVERLAY

SHEET NUMBER:
C-1
MKG PLO & CANOPY REV 3 FINAL 10/16/23



OVERALL SITE PLAN w/AERIAL OVERLAY

SCALE: 1" = 60'





750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (561) 968-5307



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

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

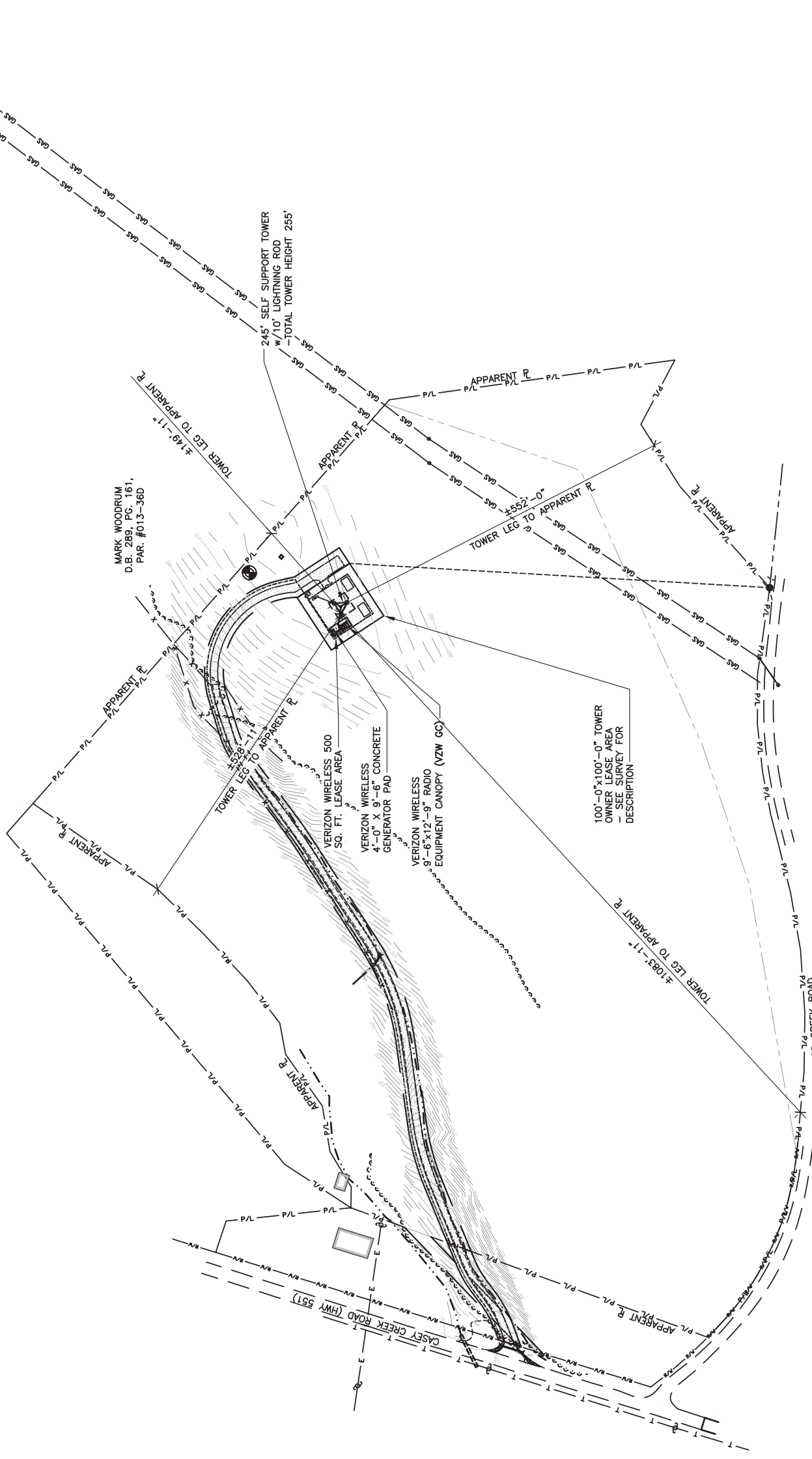
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

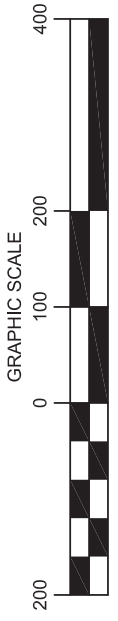
SHEET TITLE:
**OVERALL SITE PLAN
w/TOWER LEG
DISTANCE TO
PROPERTY LINES**

SHEET NUMBER:
C-1A
MK PRO & COMPANY REV 3 FINAL 10/16/23



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

SCALE: 1" = 200'



Call **811** before you dig.
Know what's below.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND UTILITY SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (561) 968-5307



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

REV.	DATE	DESCRIPTION
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0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

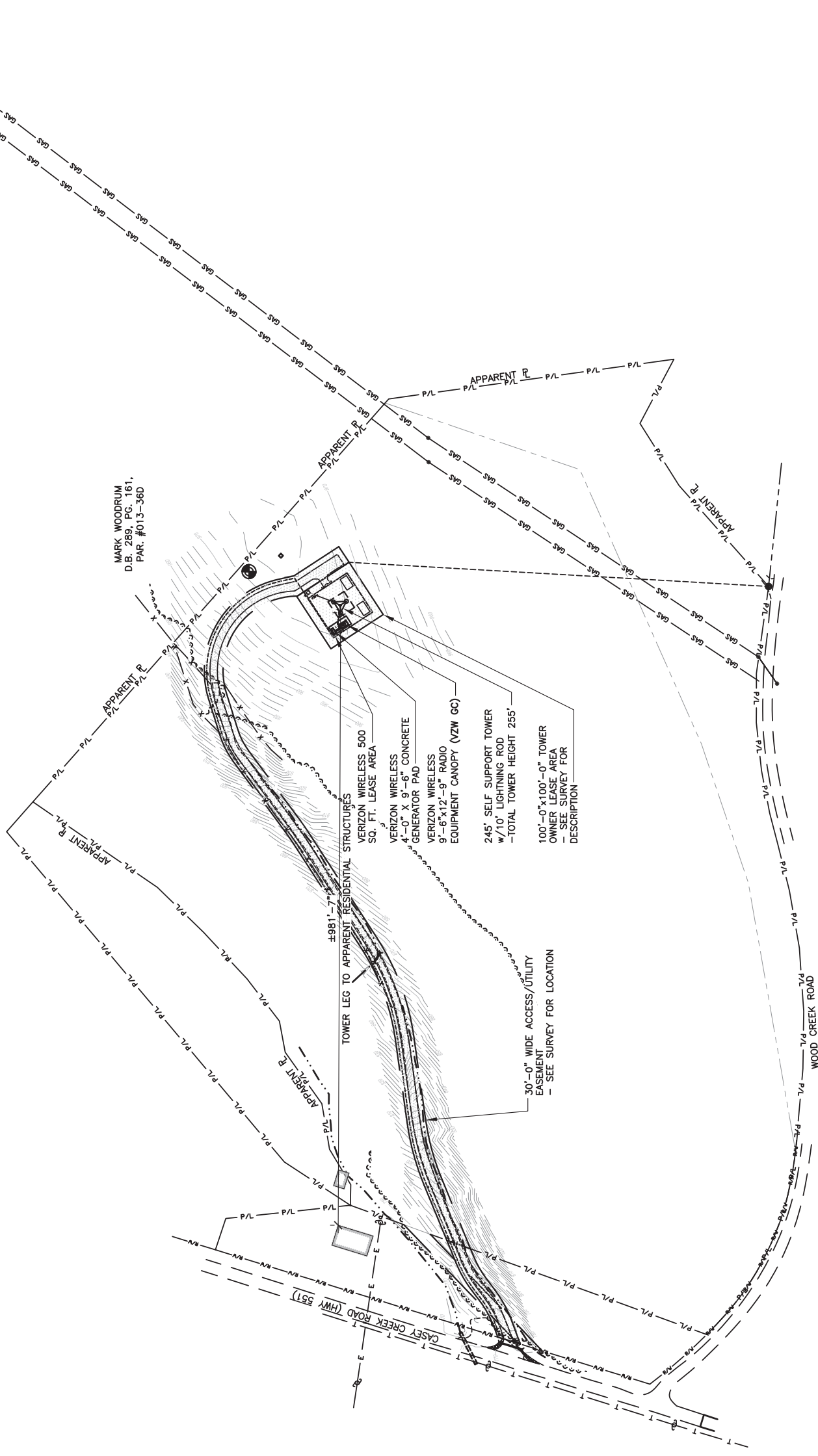
PID NUMBER: 16735947

DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**OVERALL SITE PLAN
w/TOWER LEG DISTANCE
TO RESIDENTIAL
STRUCTURES**

SHEET NUMBER:

C-1B
MK PRO & COMPANY REV 3 FINAL 10/16/23



**OVERALL SITE PLAN w/TOWER LEG DISTANCE
TO RESIDENTIAL STRUCTURES**

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
UNDERGROUND UTILITY SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.

vertical bridge

750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

LAB

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

ALBUL ENGINEERING

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

STATE OF KENTUCKY
DMITRY V. ALBUL
25093
PROFESSIONAL ENGINEER

DMITRY ALBUL
06-25-24
KY LICENSE NO. 25093

REV.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
A	03/20/24	PRELIMINARY	AIK	AAN

CLEMENTSVILLE

US-KY-5198

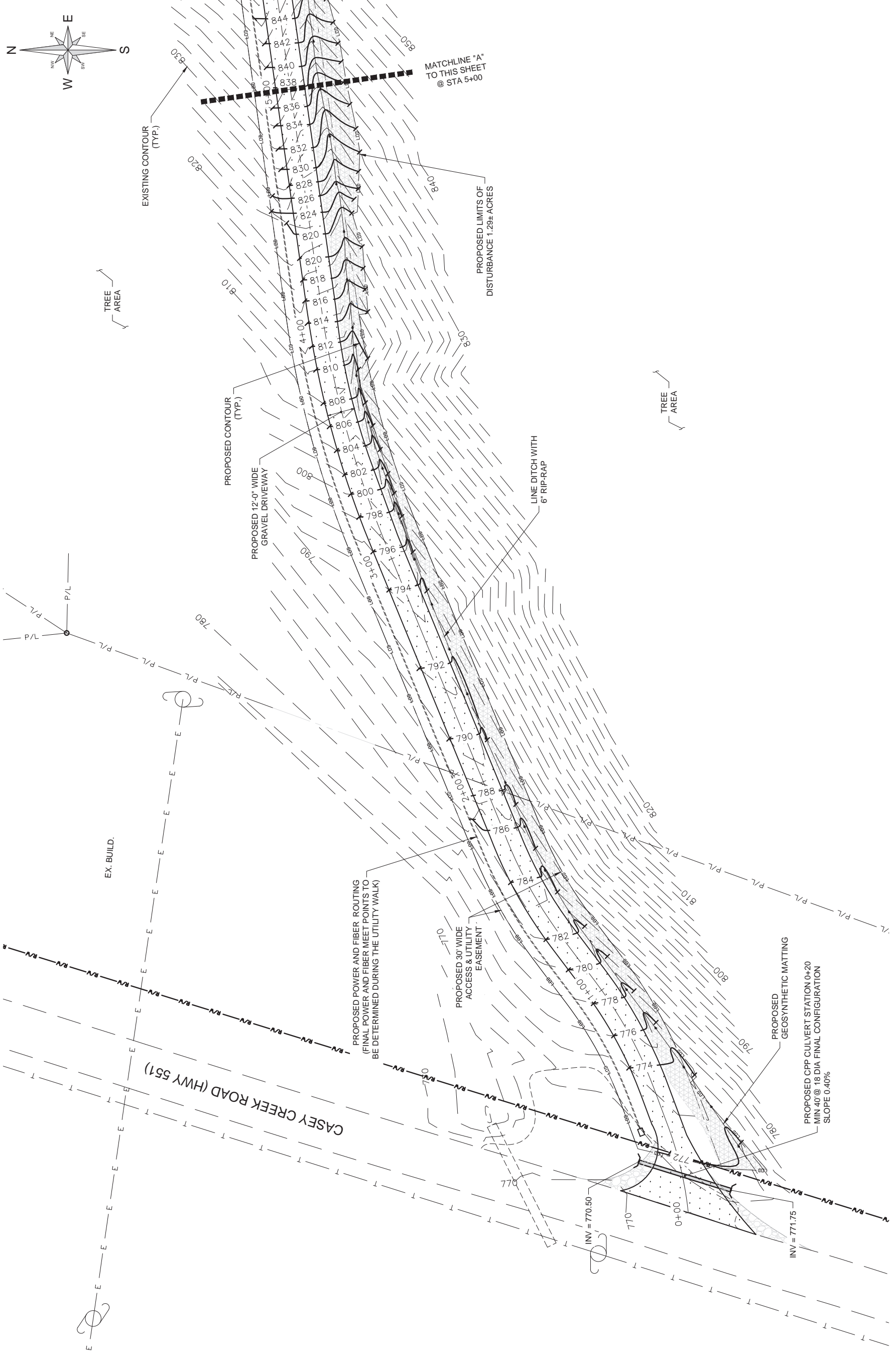
340 CASEY CREEK ROAD
LIBERTY, KY 42539
CASEY COUNTY

PROJECT NUMBER:
35914.LAB.GDP.W814901.0

SHEET NAME:
ENLARGED GRADING & EROSION CONTROL OVERALL PLAN - I

SHEET NUMBER:
C-2.1

SCALE:
AS SHOWN



1 ENLARGED GRADING & EROSION CONTROL PLAN

SCALE 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"

vertical bridge

750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (561) 948-6367

LAB

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

ALBUL ENGINEERING

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

STATE OF KENTUCKY
DMITRY V. ALBUL
25093
LICENSED PROFESSIONAL ENGINEER

DMITRY ALBUL
06-25-24
KY LICENSE NO. 25093

REV.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
A	03/20/24	PRELIMINARY	AIK	AAN

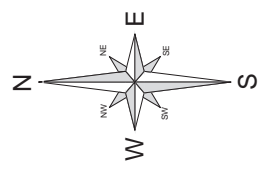
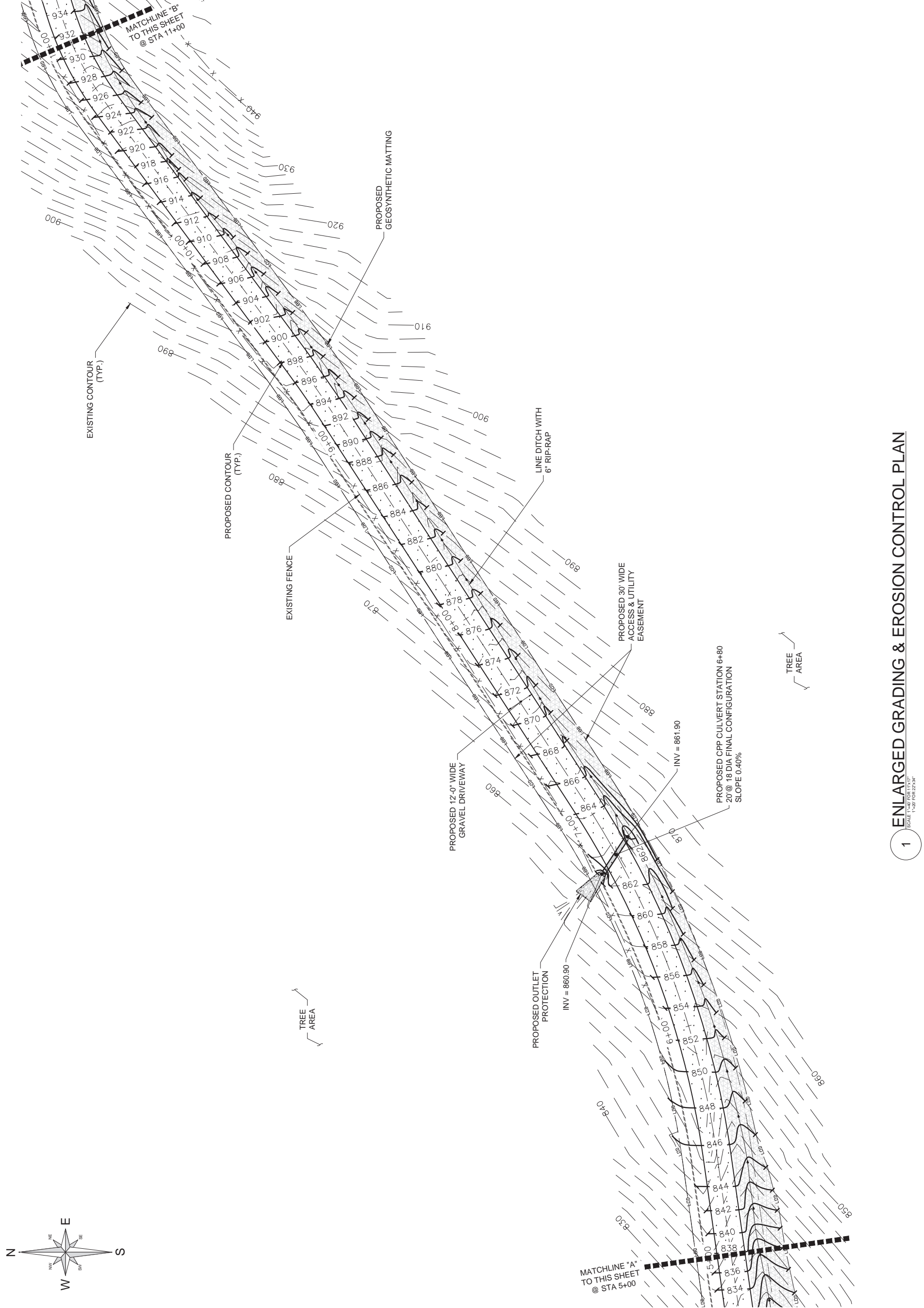
CLEMENTSVILLE
US-KY-5198
340 CASEY CREEK ROAD
LIBERTY, KY 42539
CASEY COUNTY

PROJECT NUMBER:
35914.LAB.GDP.W814901.0

SHEET NAME:
ENLARGED GRADING & EROSION CONTROL OVERALL PLAN - II

SHEET NUMBER:
C-2.2

SCALE:
AS SHOWN



1 ENLARGED GRADING & EROSION CONTROL PLAN

SCALE: 1"=40' FOR 11'X17"
1"=20' FOR 22'X34"

CARRIER:



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

CLIENT:

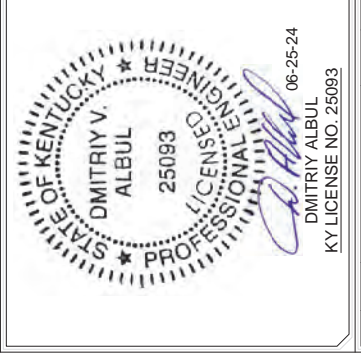


49030 PONTIAC TRAIL, SUITE 400
WIXOM, MICHIGAN 48393
PHONE: (248) 705-9212

CONTRACTOR:



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



DMITRY V. ALBUL
25093
PROFESSIONAL ENGINEER
STATE OF KENTUCKY

DMITRY ALBUL
06-25-24
KY LICENSE NO. 25093

REV.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY
A	03/20/24	PRELIMINARY	AIK	AAN

CLEMENTSVILLE
US-KY-5198
340 CASEY CREEK ROAD
LIBERTY, KY 42539
CASEY COUNTY

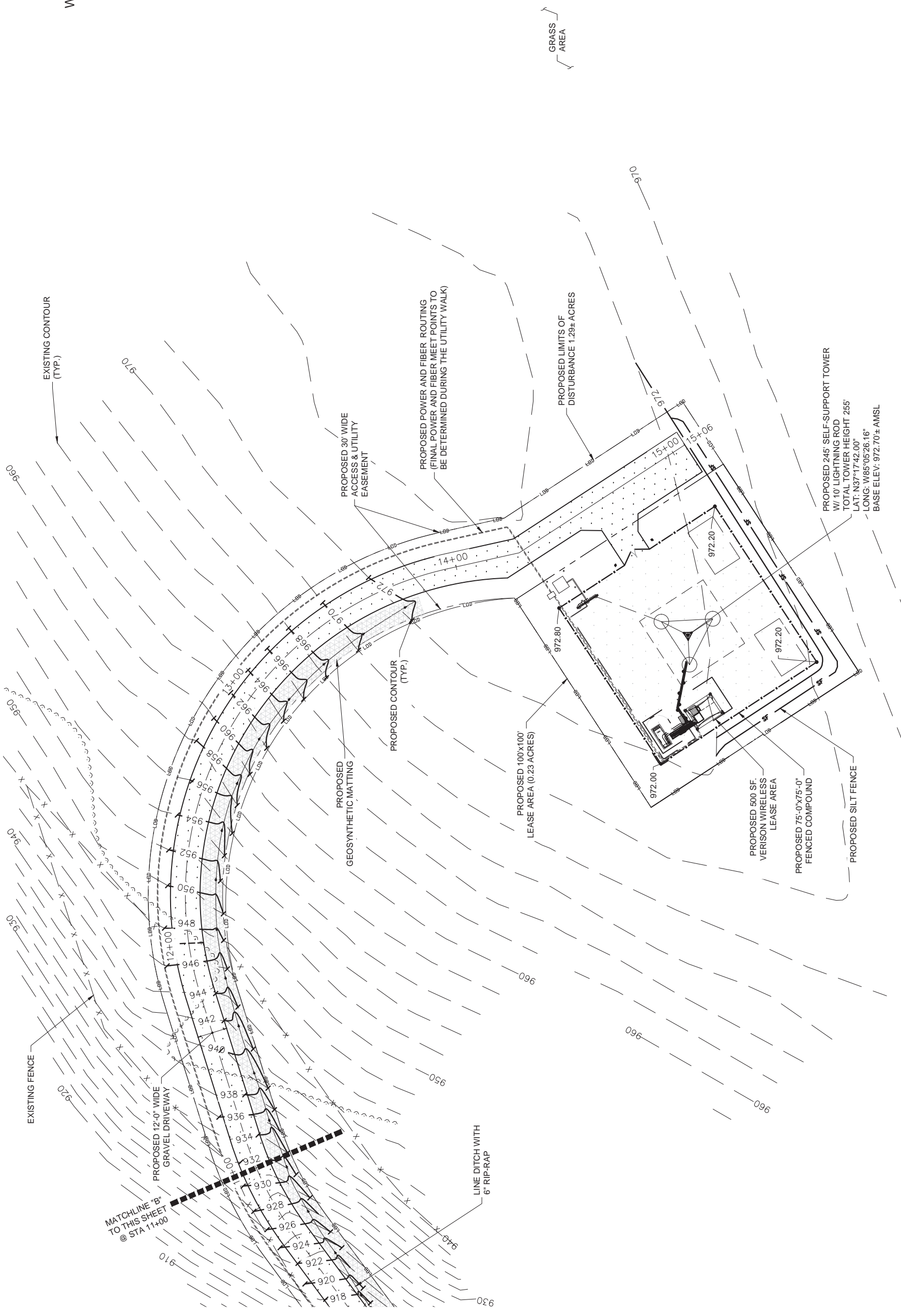
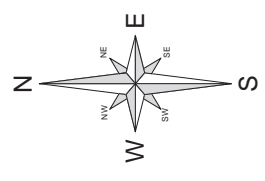
PROJECT NUMBER:
35914.LAB.GDP.W814901.0

SHEET NAME:
ENLARGED GRADING & EROSION CONTROL OVERALL PLAN - III

SHEET NUMBER:
C-2.3

SCALE:
AS SHOWN

SHEET SIZE - 22"x34"



1 ENLARGED GRADING & EROSION CONTROL PLAN
SCALE 1"=40' FOR 11"x17"
1"=30' FOR 22"x34"

REV.	DATE	DESCRIPTION
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1	06/24/24	REVISED



CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

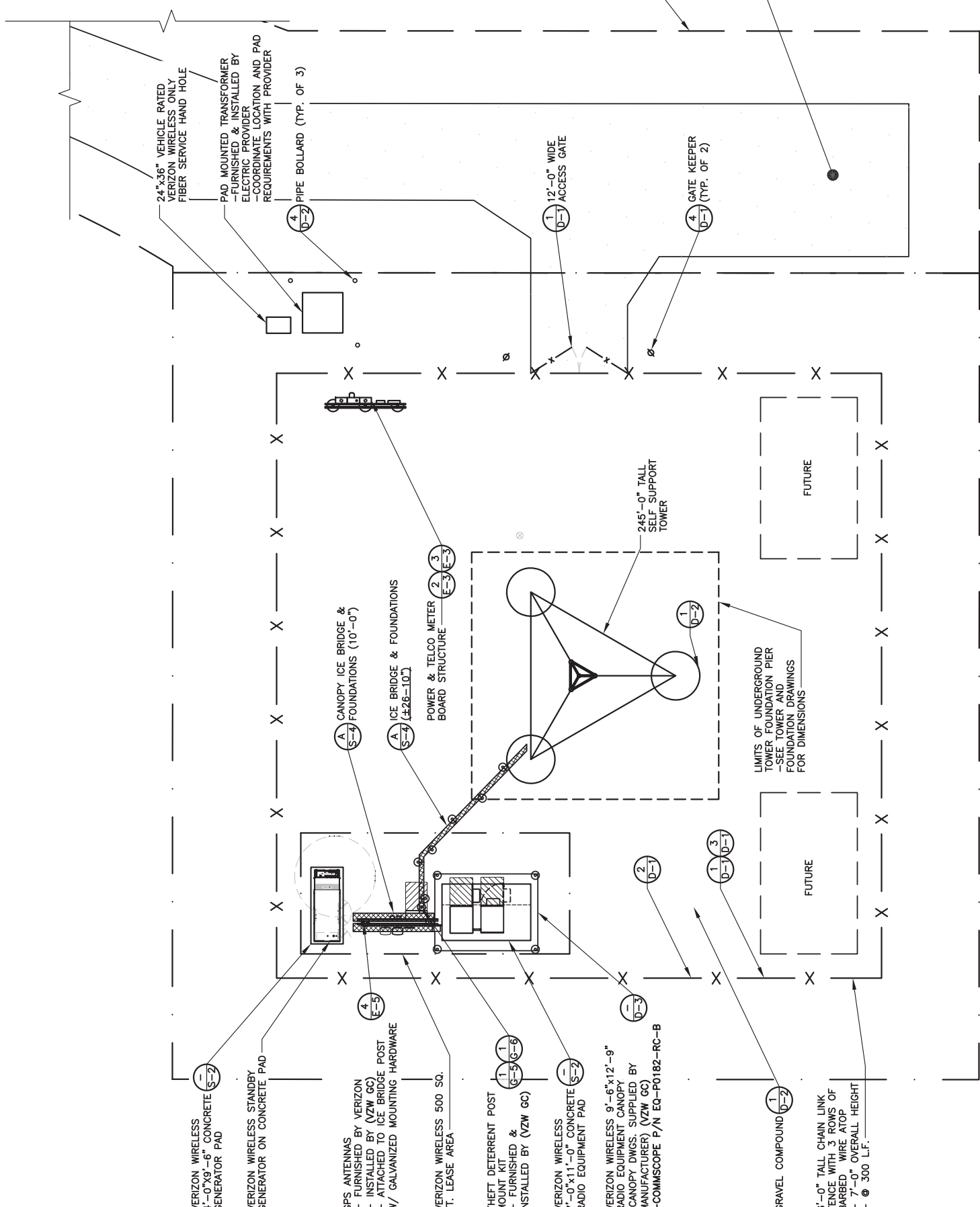
PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3
MK PWD & CANOPY REV 3 FINAL 10/16/23

LEGEND

- IRON PIN
- +---+---+ Drainage Line
- +XXX.XX Spot Elevation
- ==== Gravel Compound
- Center Line
- X-X-X-X-X-X-X- New Fence Line
- DE-DE-DE-DE-DE- New Silt Fence Line
- ==== Power Polew/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: 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

Kentucky 811
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, YOU MUST OBTAIN THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

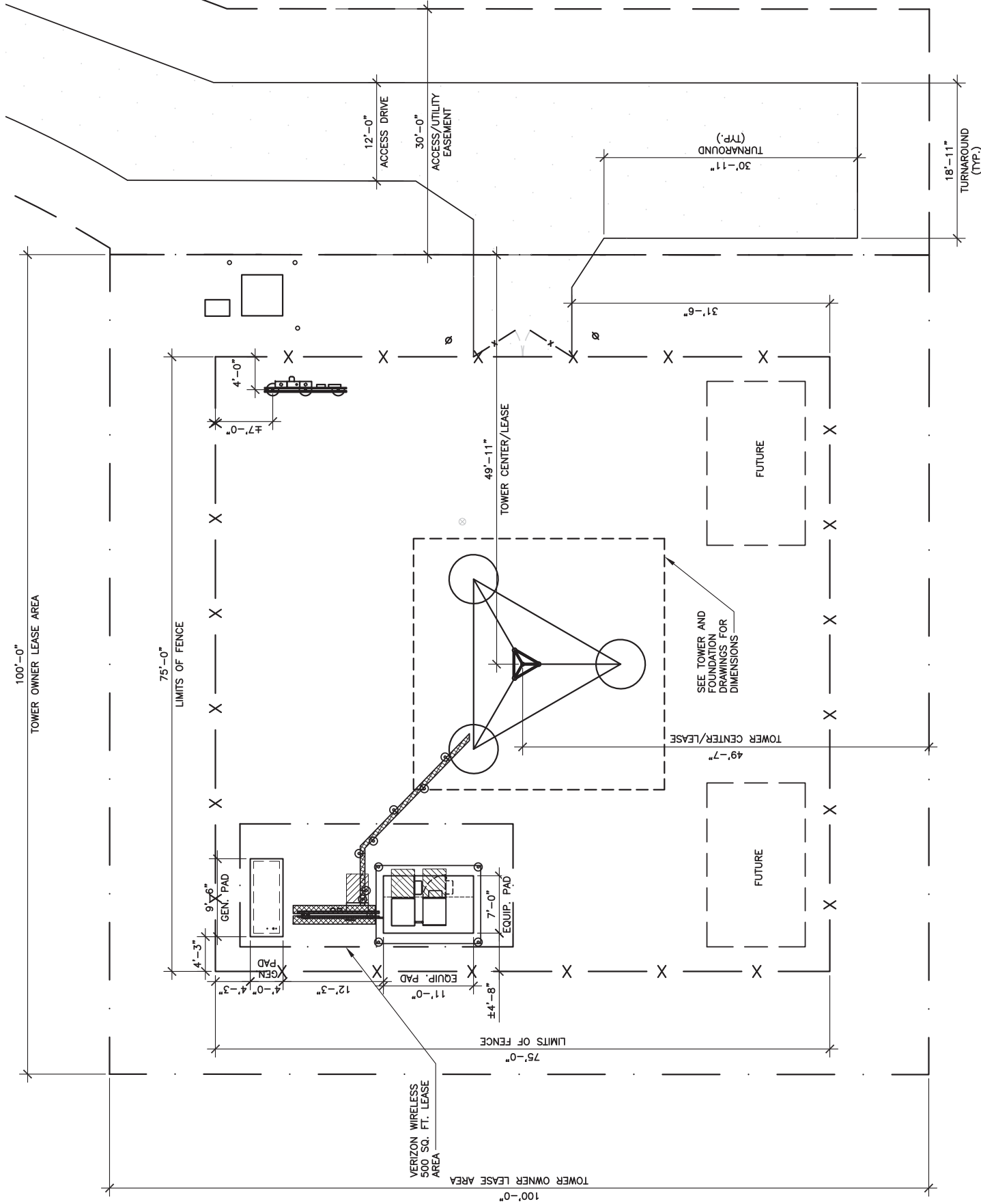
PID NUMBER: 16735947
 DRAWN BY: RC
 CHECKED BY: PL
 DATE: 03.12.24

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4
 MK PWD & CAMPY 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"

*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

Kentucky 811
 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 NOTIFYING THE APPROPRIATE AGENCIES AT LEAST 48 HOURS BEFORE COMMENCING WORK.

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

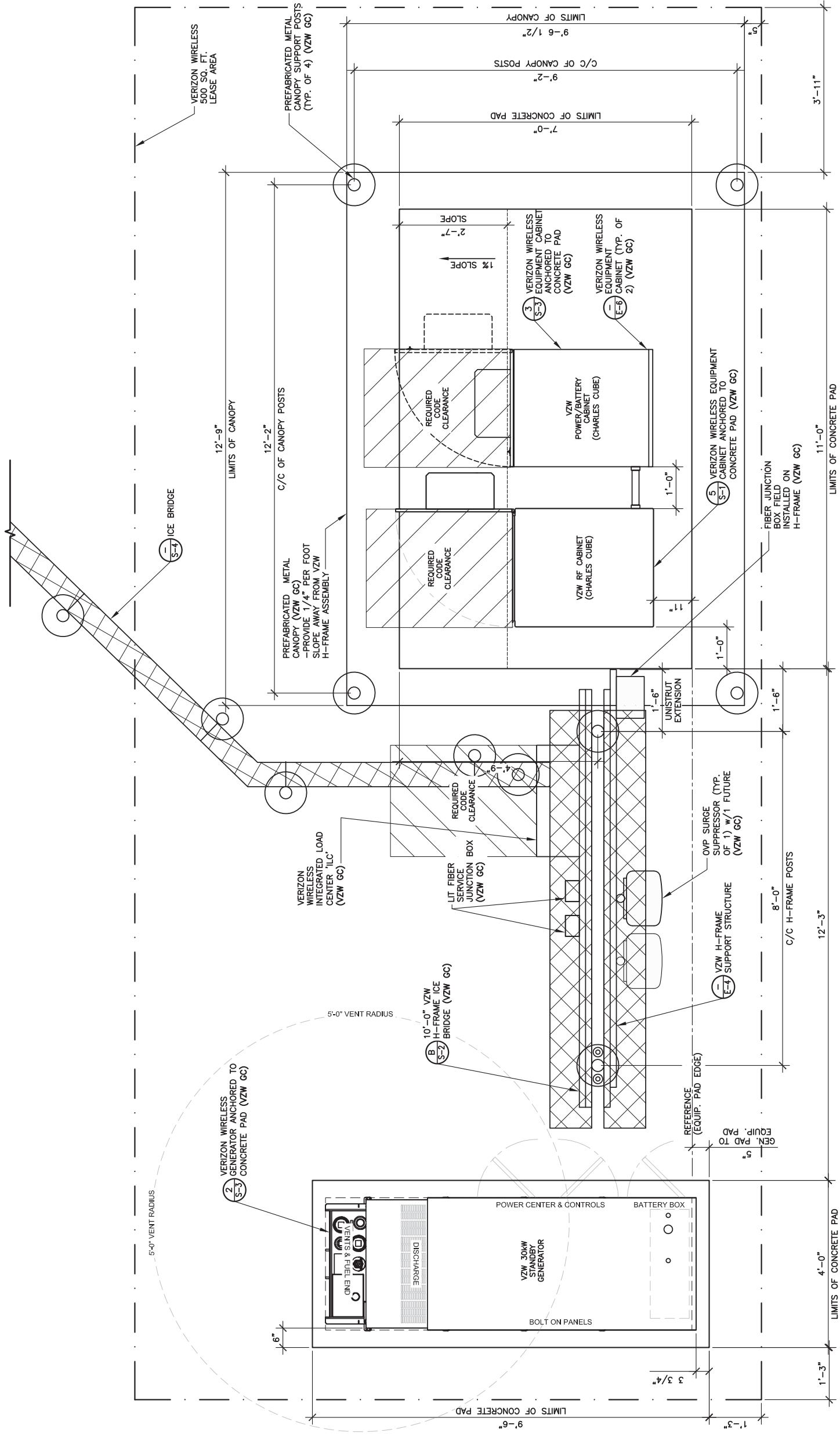
SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:

**DETAILED VZW
EQUIPMENT PLAN**

SHEET NUMBER:
C-5
MK PWD & 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 Monday thru Friday - 7 am. to 6 pm.
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.

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:

VERTICAL BRIDGE
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

PROPERTY OWNER REPRESENTATIVE:

MARK WOODRUM
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539
PHONE: (606) 303-3424
E-MAIL: woodrumm27@yahoo.com

3. ANTENNA INSTALLATION:

THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/PLATFORM SHALL ENSURE THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THIS 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 ANY NECESSARY OR LOOSE ITEMS 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 UTILITY COMPANY WITH THE FOLLOWING INFORMATION BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER. CONDUITS MUST HAVE A MINIMUM DEPTH OF 36". THE CONTRACTOR SHALL CONTACT ELECTRIC PROVIDER TO VERIFY TRENCHING DEPTH AND RESPECTIVE TO THE TOWER IS OVERHEAD STRUCTURE. ELECTRICAL PROVIDER SHALL SUPPLY SERVICE TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT ELECTRIC PROVIDER 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.

- ONE 4" SDP-115 HDPE 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 24561480 PC2436-30 T22 - VERIZON LOGO OR QUATZIEHUBBELL POWER SYSTEMS MODEL PG24362185784 ASSY T22 SW OB 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.
- CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
- CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S).
- ONE 4" SDP-115 HDPE FIBER CONDUIT w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM VERIZON WIRELESS ONLY HANDHOLE OUTSIDE COMPOUND TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS)

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.

F. ALL INLETS, DROPS, 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. DISPOSED 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 1-800-382-5544 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 AGE FIRM BY SURVEYING FIRM. AGE FIRM HAS NOT VERIFIED HIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND NOTATIONS AND SUBMIT SAME TO THE ENGINEER WITHIN 7 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 INCLUDE, BUT 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	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
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340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

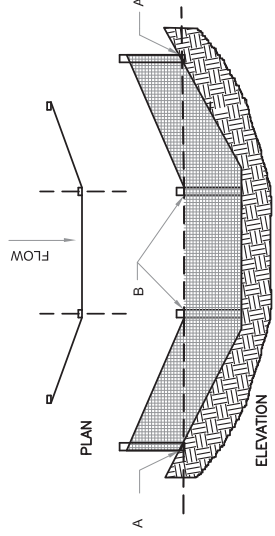
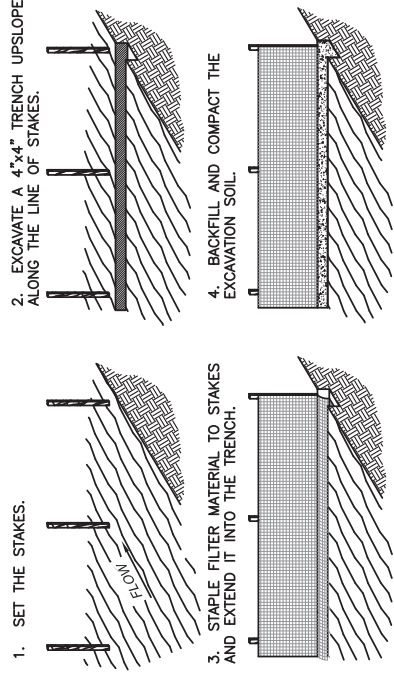
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DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
GENERAL SITE CONSTRUCTION NOTES

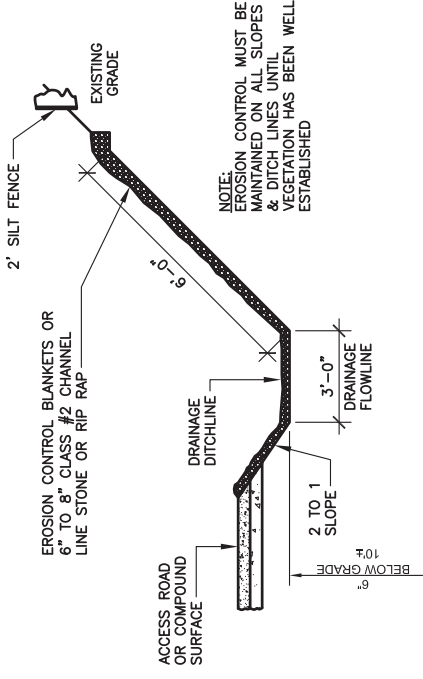
SHEET NUMBER:
C-6
MK PRO & CANOPY REV 3 FINAL 10/16/23

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 CONTRACTOR'S 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.

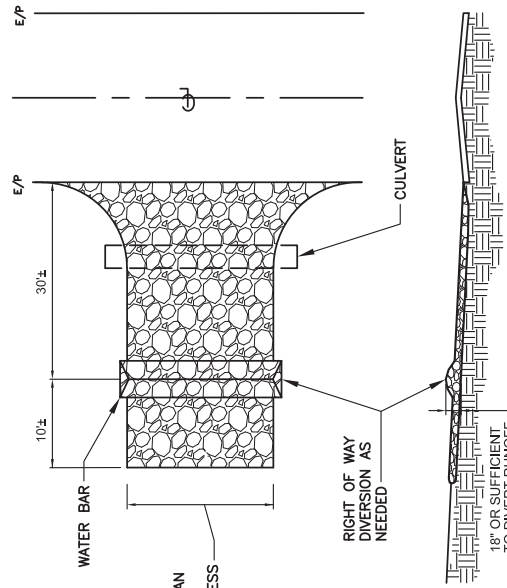


SILT FENCE DETAIL 2
SCALE: N.T.S.



- 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, TRUCKS, TRAILERS, AND OTHER MATERIALS FROM TRACKING VEHICLES THROUGH THE SITE. THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE 1
SCALE: N.T.S.



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (561) 968-5387



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

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CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947

DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES

SHEET NUMBER:



INK PLO & CAMPY REV 3 FINAL 10/16/23

CONSTRUCTION SEQUENCE

- STAKE AND/OR FLAG LIMITS OF CLEARING
- DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
- CLEARING & GRUBBING SHALL BE NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS. INSTALLATION OF PERIMETER CONTROLS SHALL BE SHOWN ON PLANS.
- ALL CONSTRUCTION ENTRANCES UNDER CONDITIONS SUCH THAT MUD IS COLLECTION ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
- CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
- BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
- CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALES DURING FILLING AND GRADING ACTIVITIES.
- CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
- MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
- REMOVE SEDIMENT CONTROLS.

- SILT FENCE
- CONSTRUCTION ENTRANCE
- EROSION CONTROL SEED BLANKETS - SPEC FOR TEMPORARY EROSION CONTROL BLANKETS ON SLOPES/DITCHES

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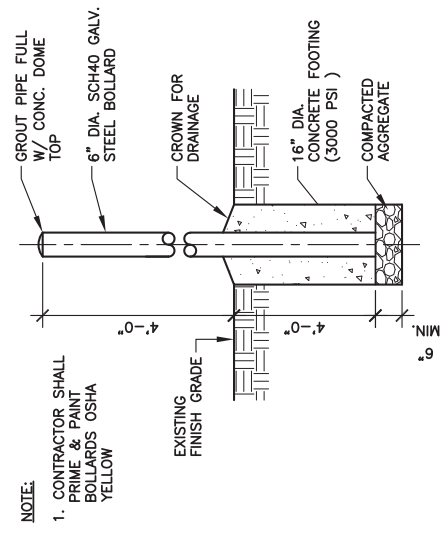
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US-KY-5198

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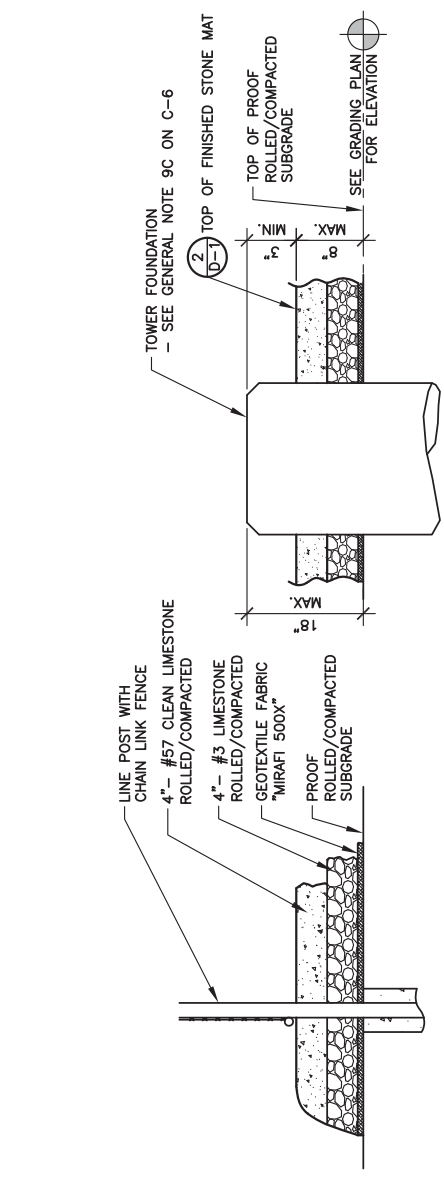
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SITE DETAILS

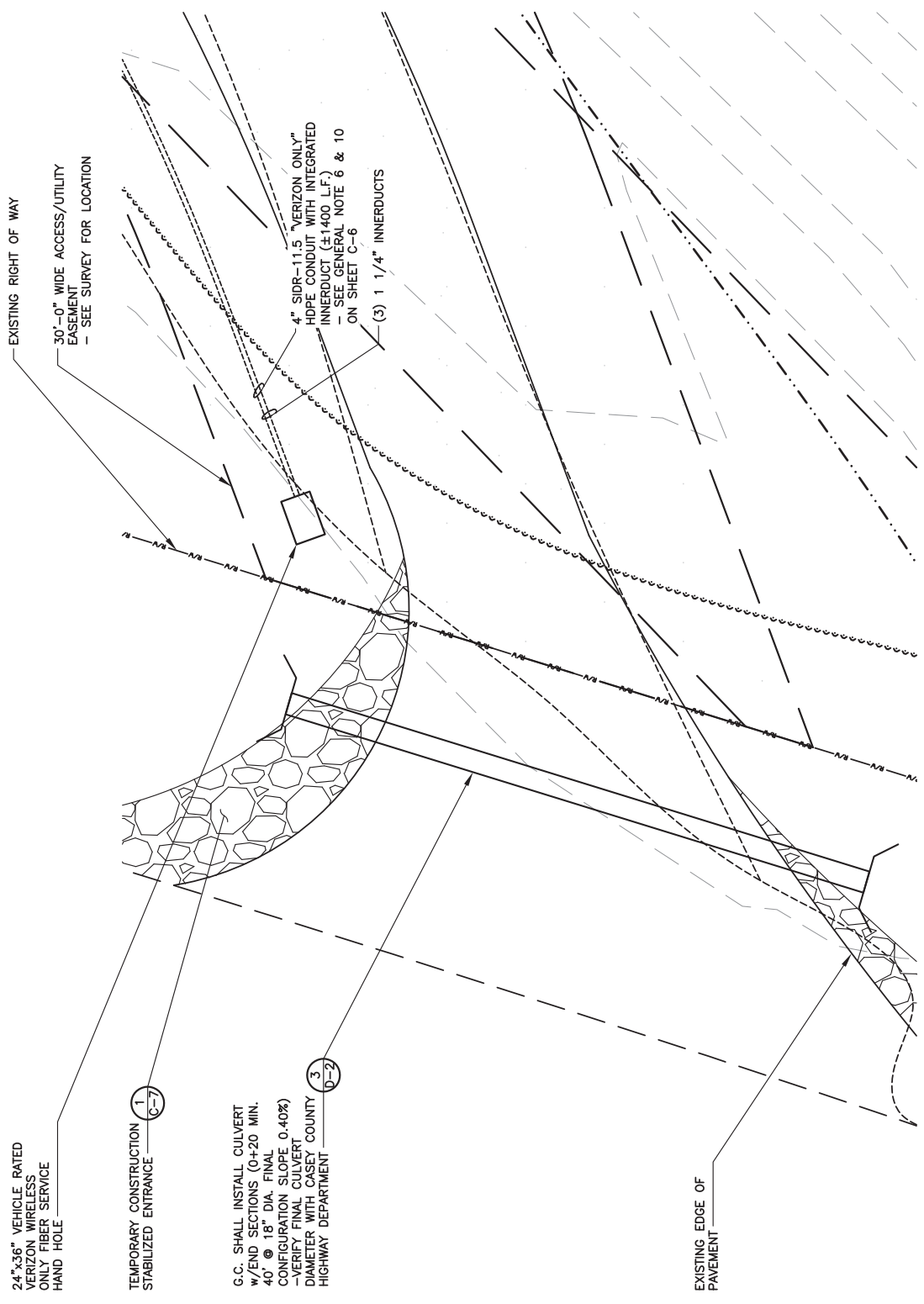
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MK PRO & CAMPY REV 3 FINAL 10/16/23



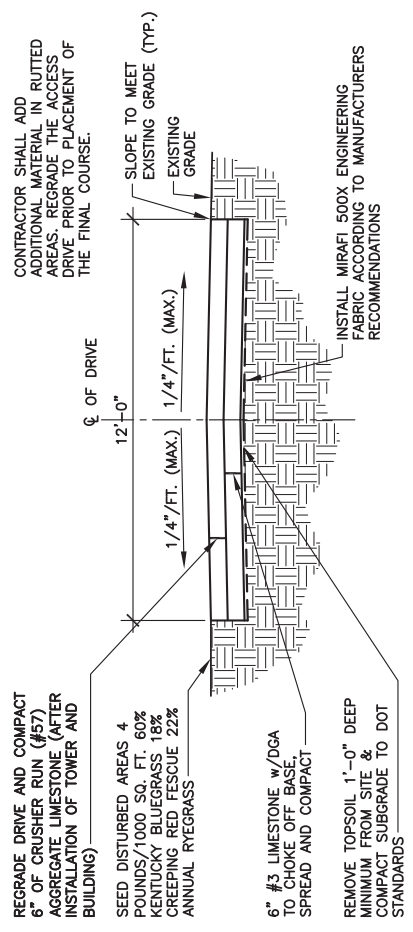
4
D-2
BOLLARD DETAIL
SCALE: N.T.S.



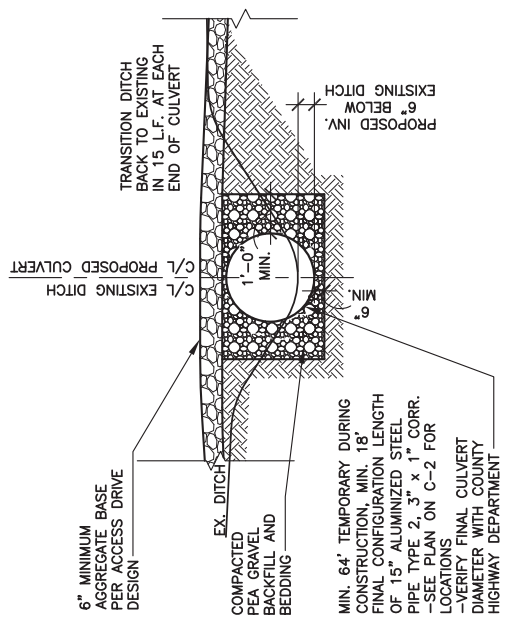
1
D-2
PARTIAL COMPOUND SECTION
SCALE: N.T.S.



5
D-2
ENLARGED FIBER HAND HOLE PLAN AT R.O.W.
SCALE: 3/32" = 1'-0"



2
D-2
ACCESS DRIVE TYPICAL SECTION
SCALE: N.T.S.



3
D-2
CULVERT DETAIL
SCALE: N.T.S.

NOTE:
1. CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW

24"x36" VEHICLE RATED VERIZON WIRELESS ONLY FIBER SERVICE HAND HOLE

CONTRACTOR SHALL ADD ADDITIONAL MATERIAL IN RUTTED AREAS. REGRADE THE ACCESS DRIVE PRIOR TO PLACEMENT OF THE FINAL COURSE.

REGRADE DRIVE AND COMPACT 6" OF CRUSHER RUN (#57) AGGREGATE LIMESTONE (AFTER INSTALLATION OF TOWER AND BUILDING)

SEED DISTURBED AREAS 4 POUNDS/1000 SQ. FT. 60% KENTUCKY BLUEGRASS 18% CREEPING RED FESCUE 22% ANNUAL RYEGRASS

6" #3 LIMESTONE w/DGA TO CHOK OFF BASE, SPREAD AND COMPACT

INSTALL MIRAFI 500X ENGINEERING FABRIC ACCORDING TO MANUFACTURERS RECOMMENDATIONS

G.C. SHALL INSTALL CULVERT w/END SECTIONS (0+20 MIN. 40' @ 18" DIA. FINAL CONFIGURATION SLOPE 0.40%) -VERIFY FINAL CULVERT DIAMETER WITH CASEY COUNTY HIGHWAY DEPARTMENT

MIN. 64' TEMPORARY DURING CONSTRUCTION, MIN. 18' FINAL CONFIGURATION LENGTH OF 15" ALUMINIZED STEEL PIPE TYPE 2, 3' x 1" CORR. -SEE PLAN ON C-2 FOR LOCATIONS -VERIFY FINAL CULVERT DIAMETER WITH COUNTY HIGHWAY DEPARTMENT

6" MINIMUM AGGREGATE BASE PER ACCESS DRIVE DESIGN

COMPACTED PEA GRAVEL BACKFILL AND BEDDING

TRANSITION DITCH BACK TO EXISTING IN 15 L.F. AT EACH END OF CULVERT

EXISTING DITCH 6" BELOW PROPOSED INV.

TEMPORARY CONSTRUCTION STABILIZED ENTRANCE

EXISTING EDGE OF PAVEMENT

EXISTING RIGHT OF WAY

30'-0" WIDE ACCESS/UTILITY EASEMENT - SEE SURVEY FOR LOCATION

4" SIDR-11.5 "VERIZON ONLY" HDPE CONDUIT WITH INTEGRATED INNERDUCT (±1400 L.F.) - SEE GENERAL NOTE 6 & 10 ON SHEET C-6

(3) 1 1/4" INNERDUCTS

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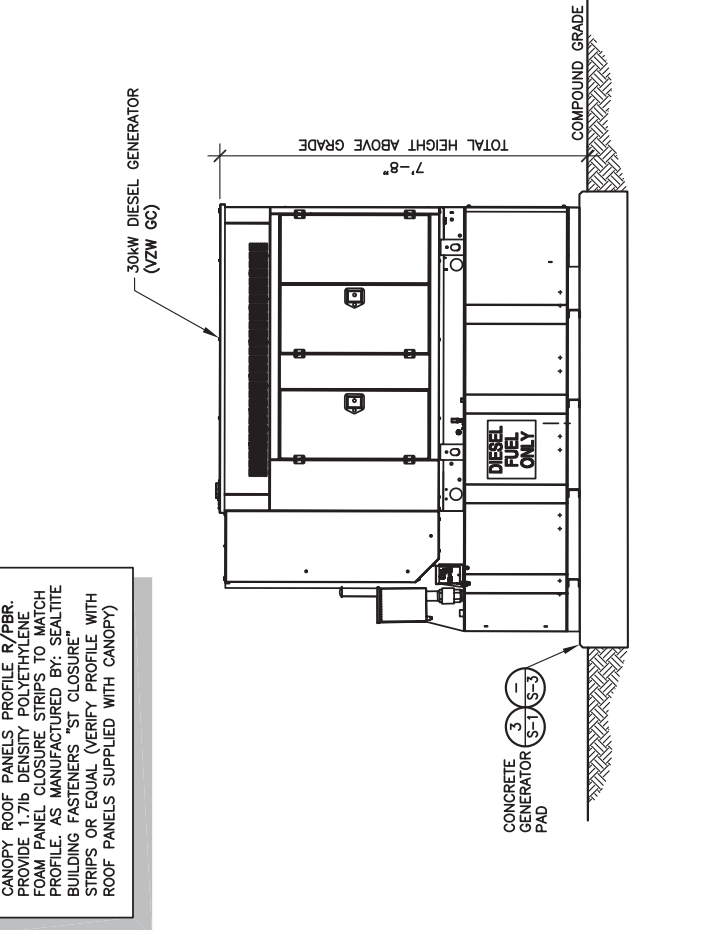
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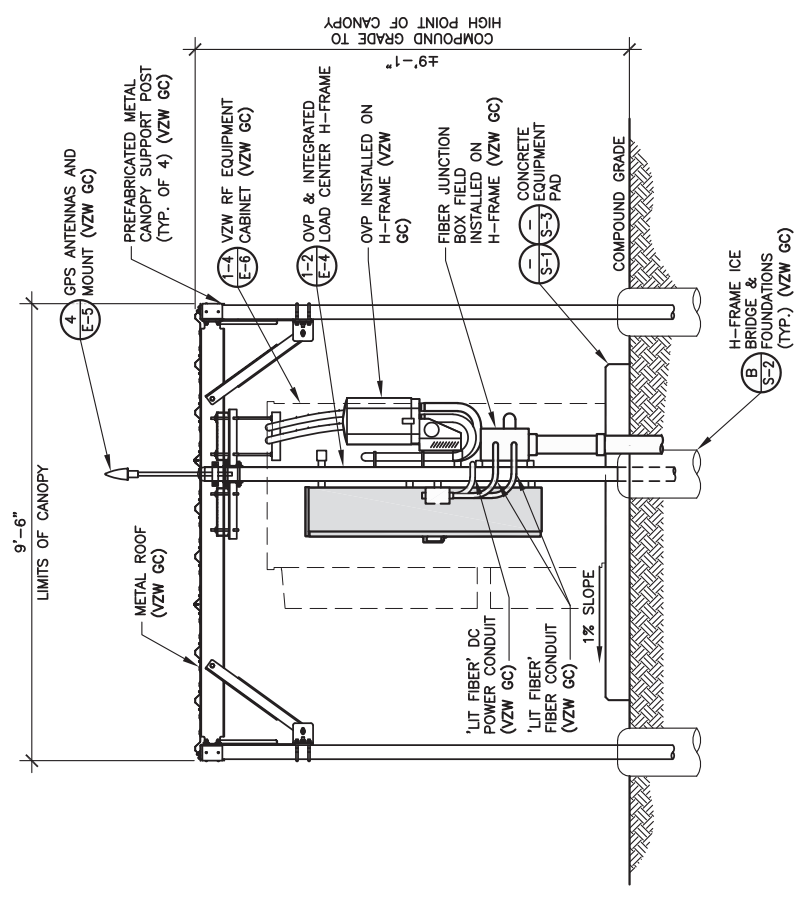
SHEET TITLE:
EQUIPMENT PAD & CANOPY ELEVATIONS

SHEET NUMBER:
D-3
MK PAD & CANOPY REV 3 FINAL 10/16/23

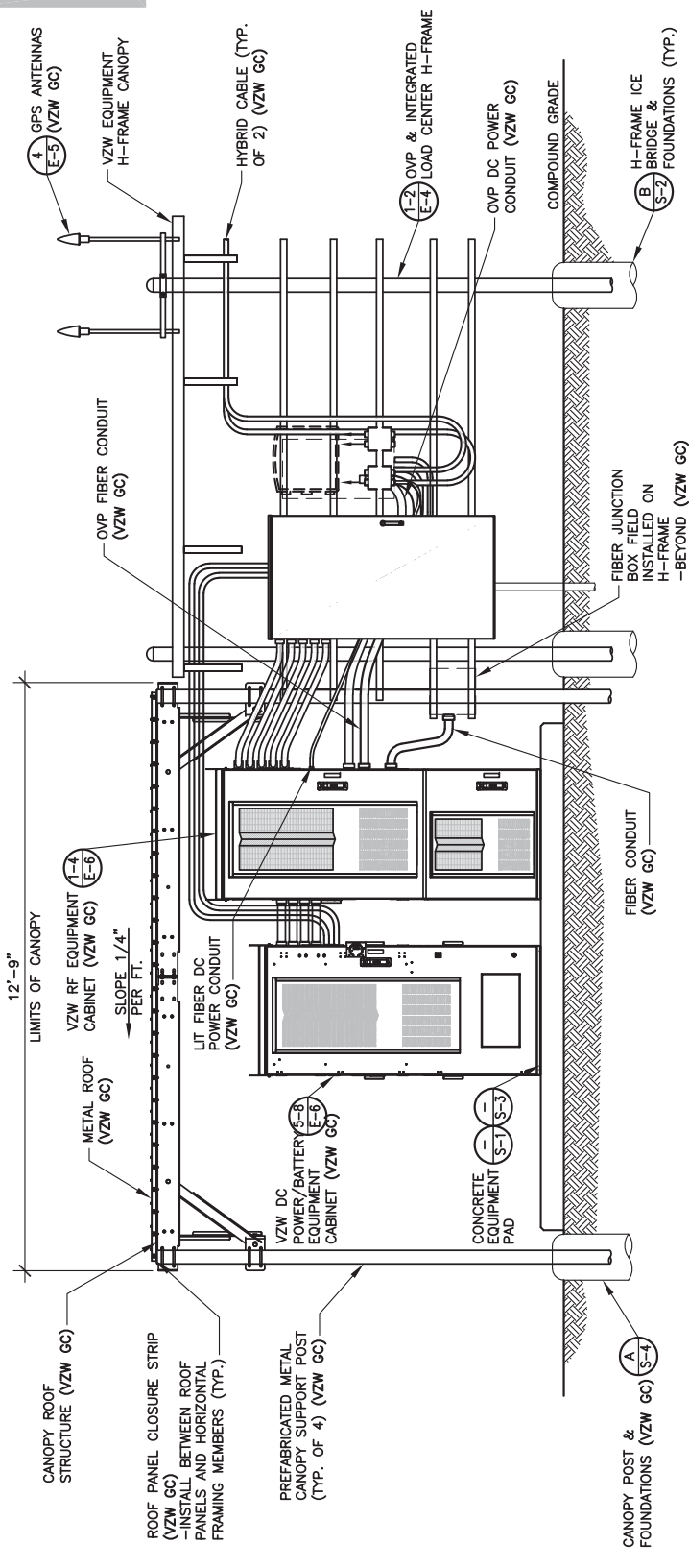
NOTE:
CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1.7lb DENSITY POLYETHYLENE FLOORING. MANUFACTURE TO MATCH PROFILE. AS MANUFACTURED BY: SEALITE BUILDING FASTENERS "ST CLOSURE" STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)



GENERATOR ELEVATION
SCALE: 1/4" = 1'-0"

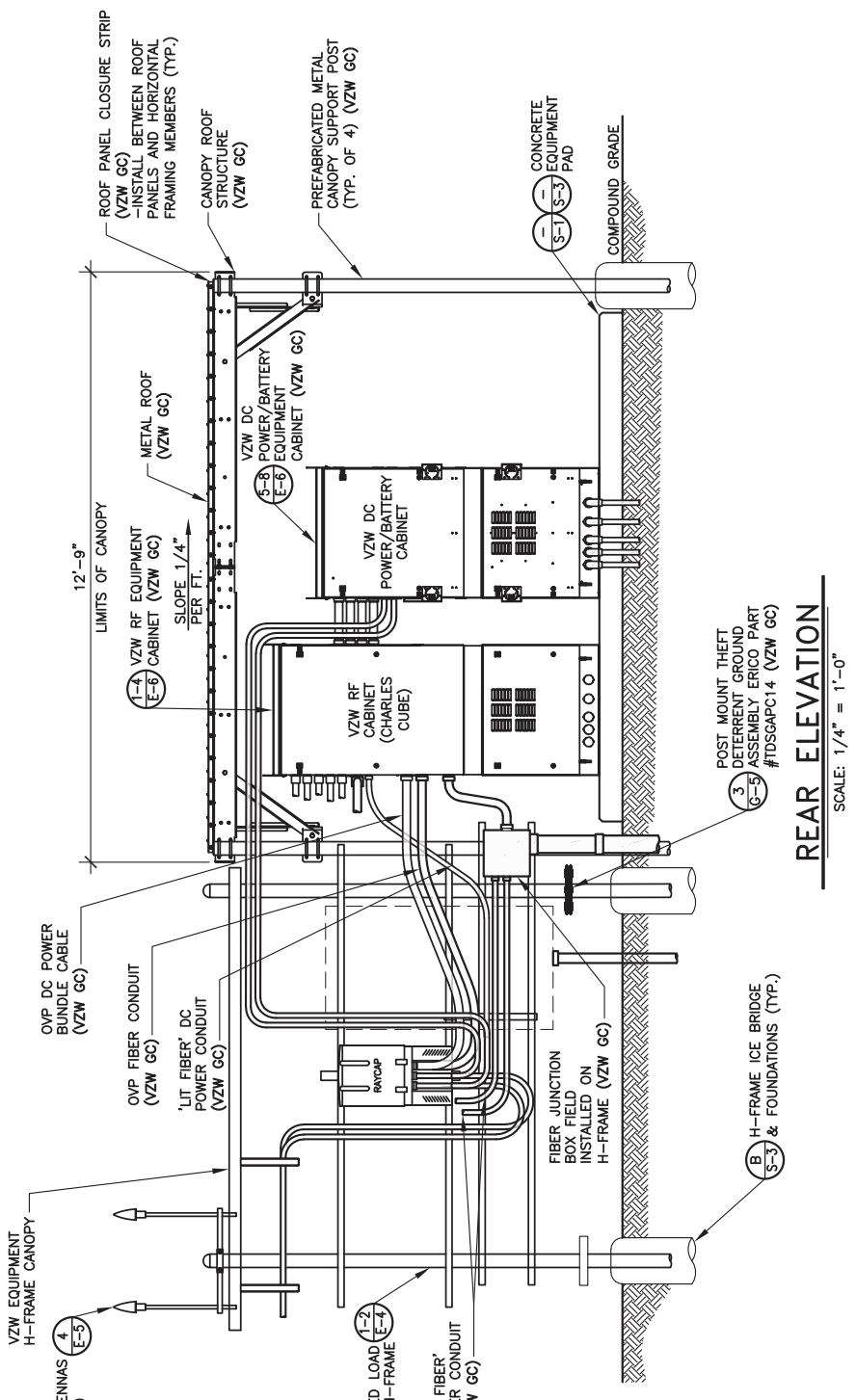


RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



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



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)

(C2)

(C3)

(C4)

(C5)

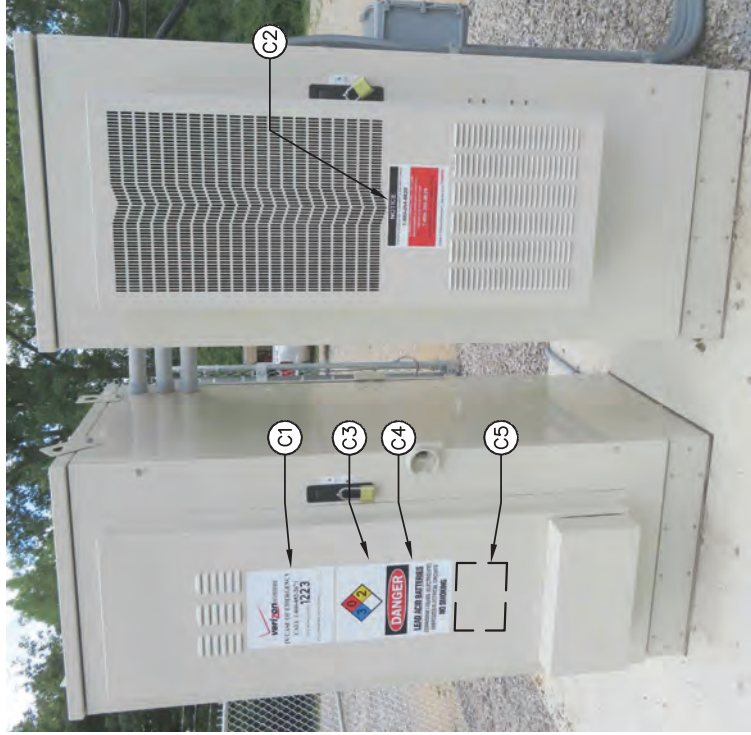


FIGURE 1 - EQUIPMENT CABINET SIGNAGE

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)

(D2)

(D3)

(D4)



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)



FIGURE 9 - TYPICAL E.M.E. SIGNAGE

750 PARK OF COMMERCE DRIVE
 BOCA RATON, FL 33487
 PHONE: (954) 968-5307

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

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED

SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

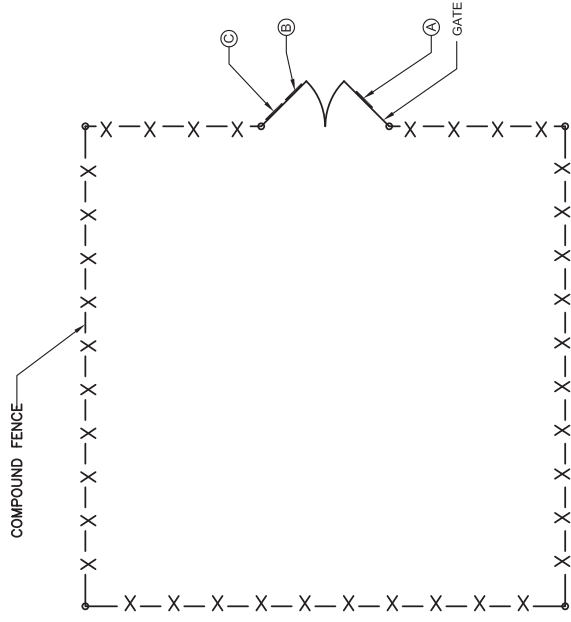
PID NUMBER: 16735947
 DRAWN BY: RC
 CHECKED BY: PL
 DATE: 03.12.24

SHEET TITLE:
VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)

SHEET NUMBER:
D-4
 MK PRO & CAMPO REV 3 FINAL 10/16/23

NOTES:

SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATION



TYPICAL SIGN PLACEMENT PLAN VIEW

SCALE: N. T. S.

SIGNAGE NOTE

1. SIGN SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL AND PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE HOG RING (AS UTILIZED IN FENCE INSTALLATION) OR BRACKETS WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION



VERTICAL BRIDGE ID SIGN

24" WIDE x 24" HIGH

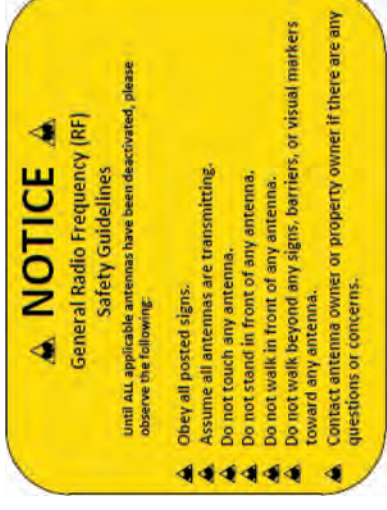
A



CAUTION - RF SIGN (YELLOW)

24" WIDE x 24" HIGH

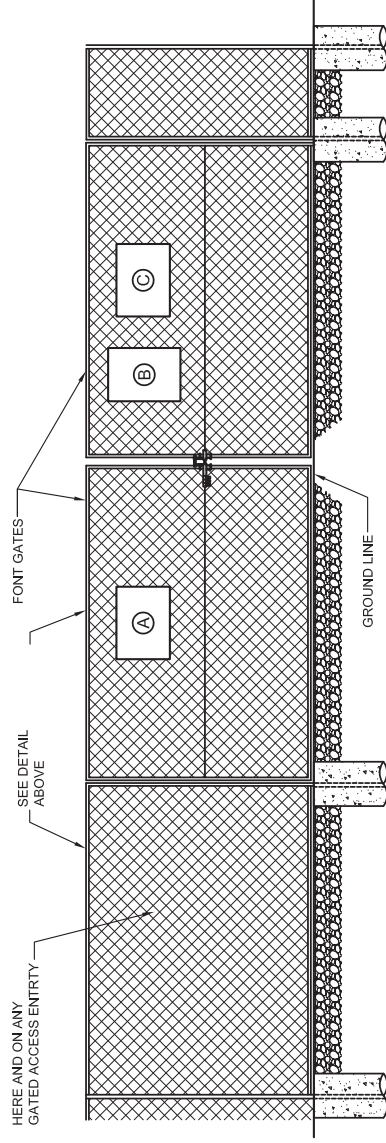
B



NOTICE - RF SIGN (BLUE)

24" WIDE x 24" HIGH

C



SITE SIGNAGE FRONT GATE VIEW

SCALE: N. T. S.



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (954) 968-5367



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

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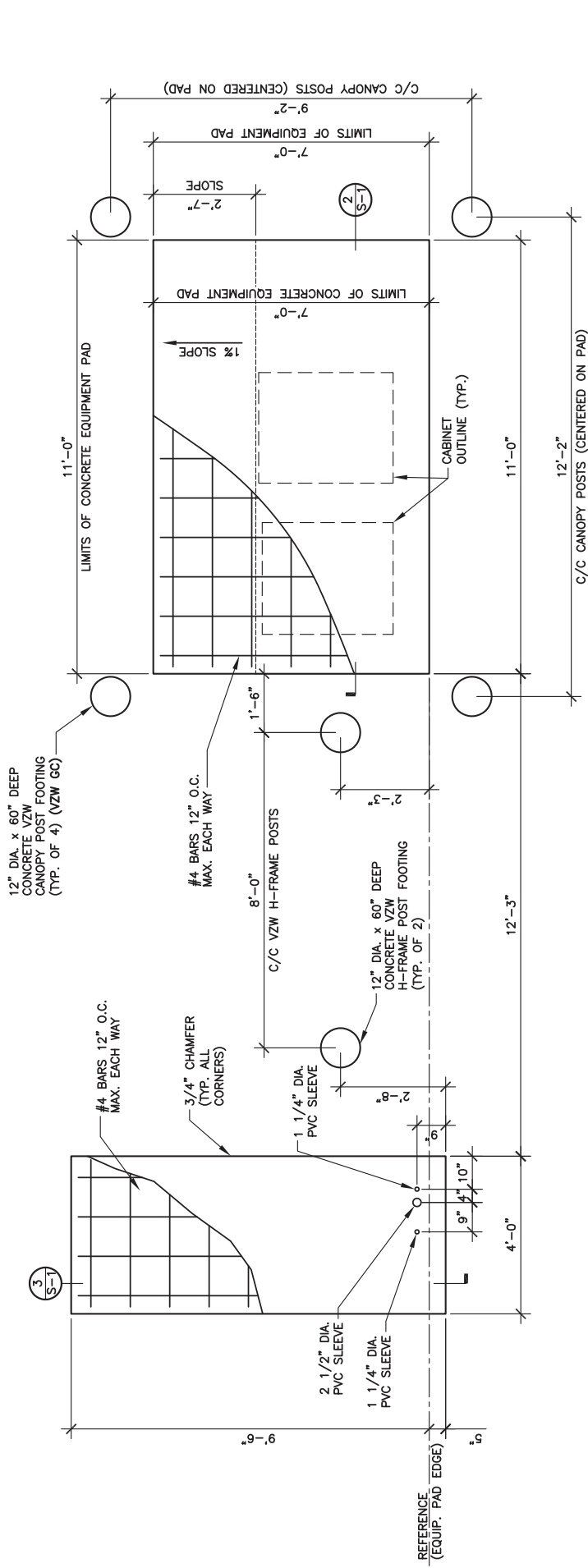
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DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)

SHEET NUMBER:
D-5

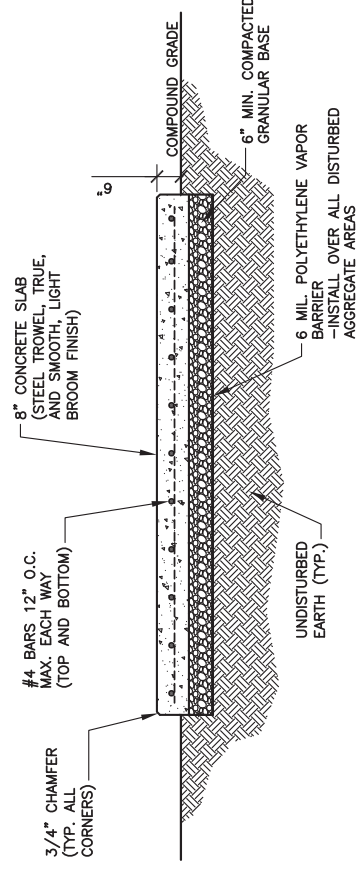
WK PRO & CONCEPTS REV 3 FINAL 10/16/23

NOTE:
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED



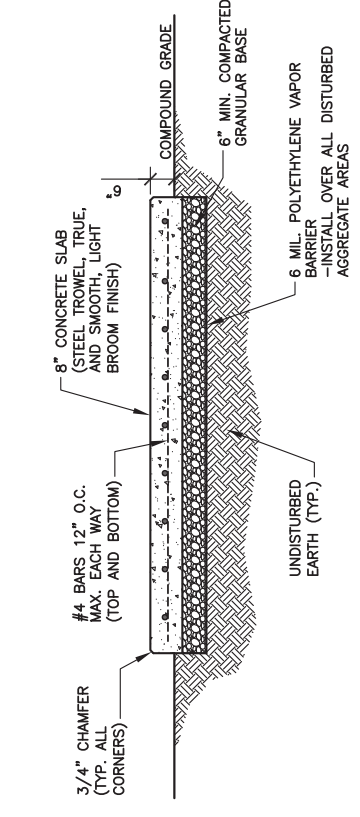
EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN

SCALE: 1/4" = 1'-0"



EQUIPMENT PAD FOUNDATION SECTION

SCALE: 1/4" = 1'-0"



GENERATOR PAD FOUNDATION SECTION

SCALE: 1/4" = 1'-0"



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 SUBSURFACE 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 INCURRED 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
2-4" SLUMP
- BLDG. FOUNDATION
F_c = 4000 PSI @ 28 DAYS

- 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	ANCHORAGE	SPLICE (OTHER)	ANCHORAGE (TOP)	SPLICE (TOP)
#4	12"	25"	25"	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.



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 NOTIFYING US WORKING DAYS BEFORE COMMENCING WORK.



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CASEY COUNTY

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US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES

SHEET NUMBER:
S-1

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

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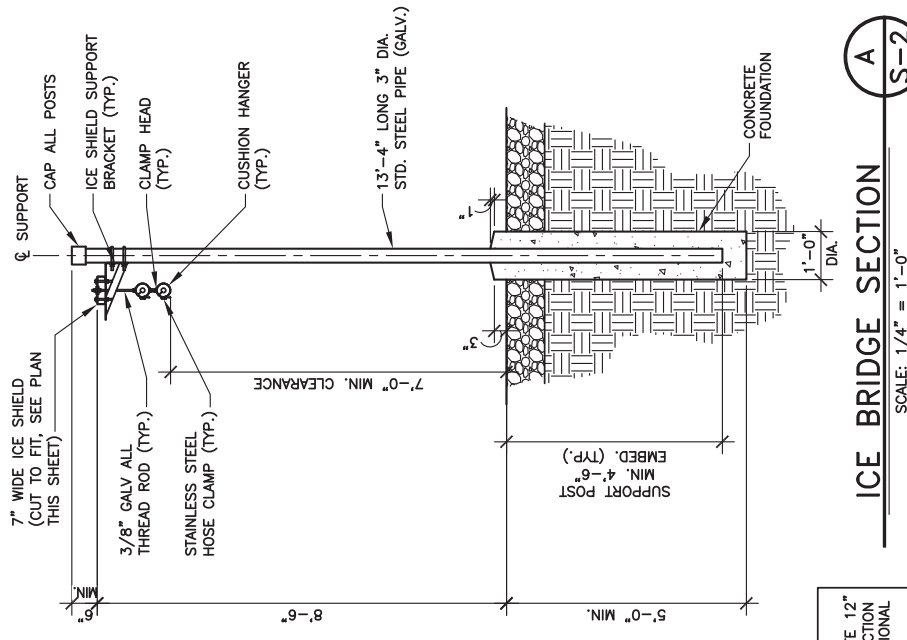
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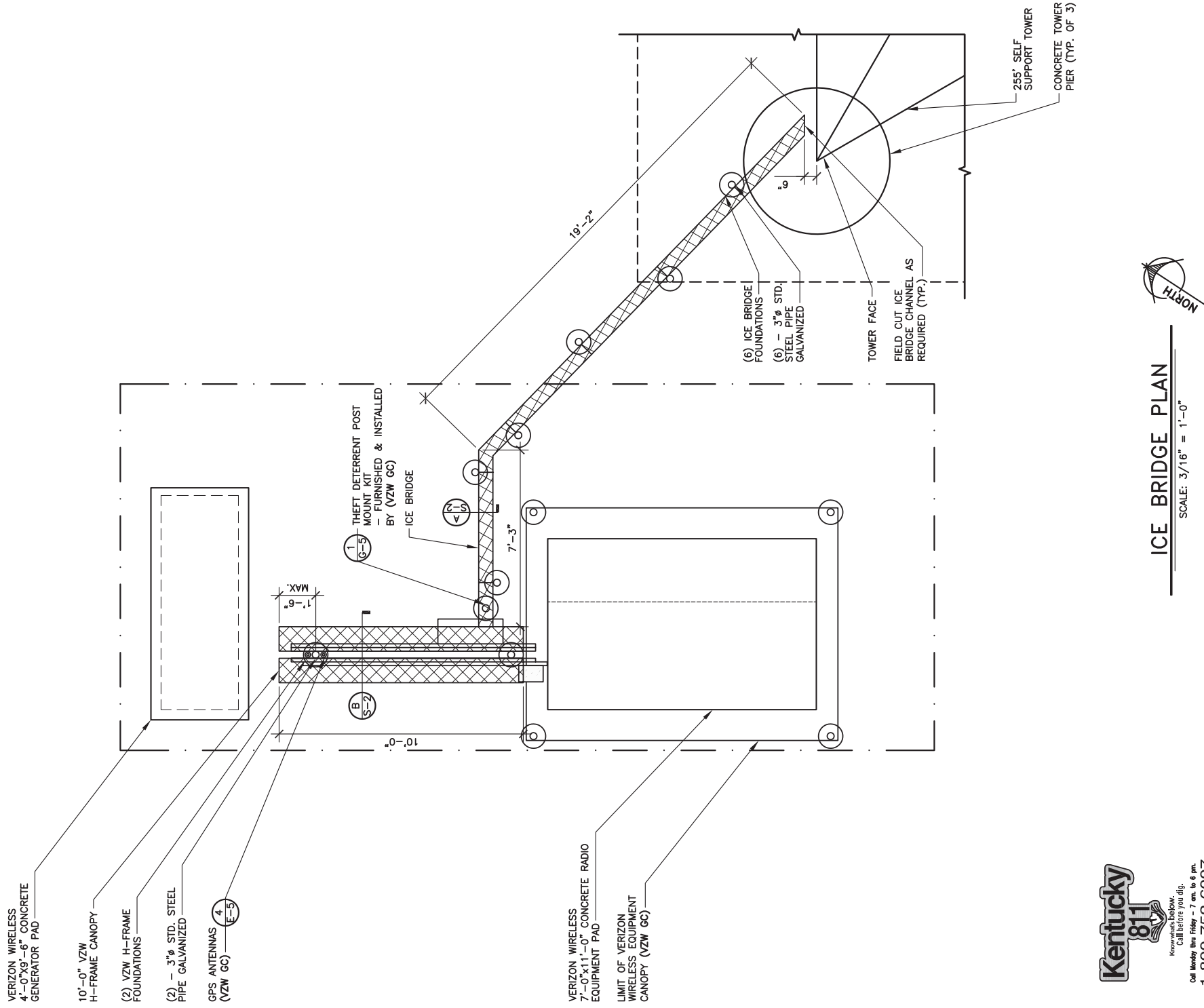
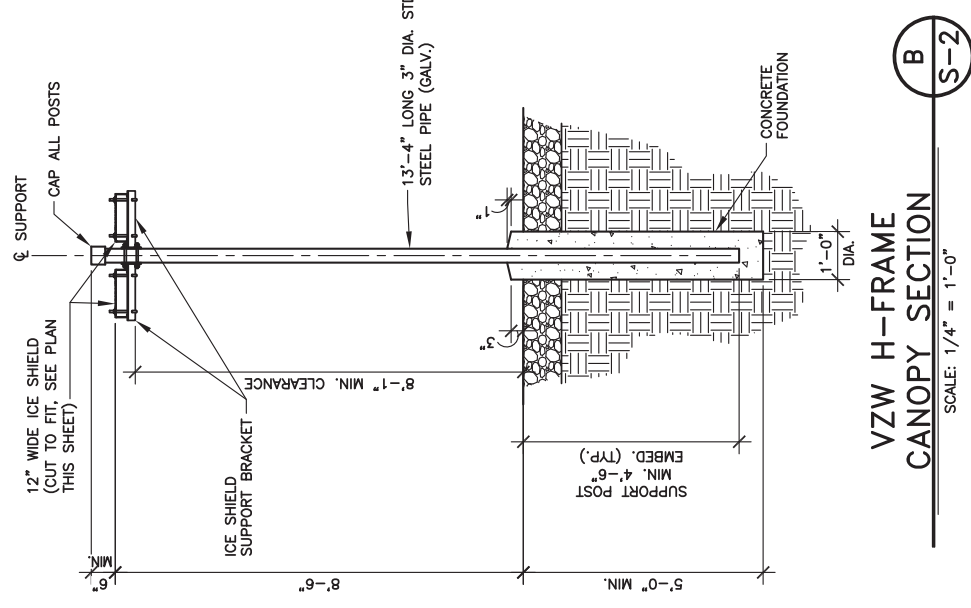
PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**ICE BRIDGE PLAN
 AND DETAILS**

SHEET NUMBER:
S-2
INK PLO & 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



- VERIZON WIRELESS 4'-0"x9'-6" CONCRETE GENERATOR PAD
- 10'-0" VZW H-FRAME CANOPY
- (2) VZW H-FRAME FOUNDATIONS
- (2) - 3" STD. STEEL PIPE GALVANIZED
- GPS ANTENNAS (VZW GC)

- VERIZON WIRELESS 7'-0"x11'-0" CONCRETE RADIO EQUIPMENT PAD
- LIMIT OF VERIZON WIRELESS EQUIPMENT CANOPY (VZW GC)



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE PUBLIC INTEREST TO PERFORM ANY UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



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 CASEY COUNTY

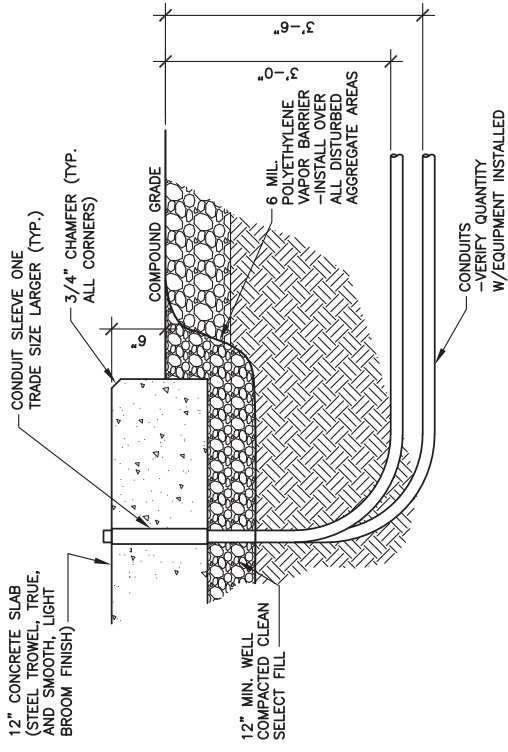
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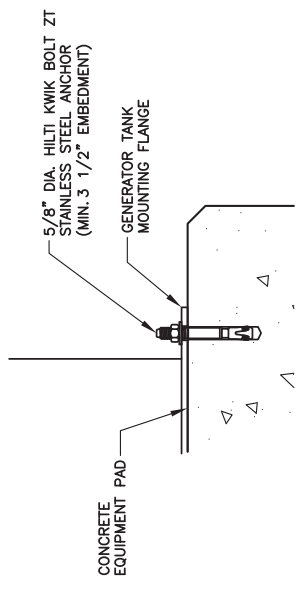
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DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
FOUNDATION PLAN AND DETAILS

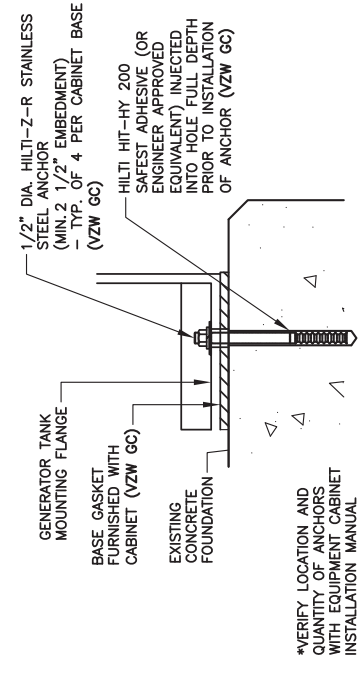
SHEET NUMBER:
S-3
 MK P&I & CANOPY REV 3 FINAL 10/16/23



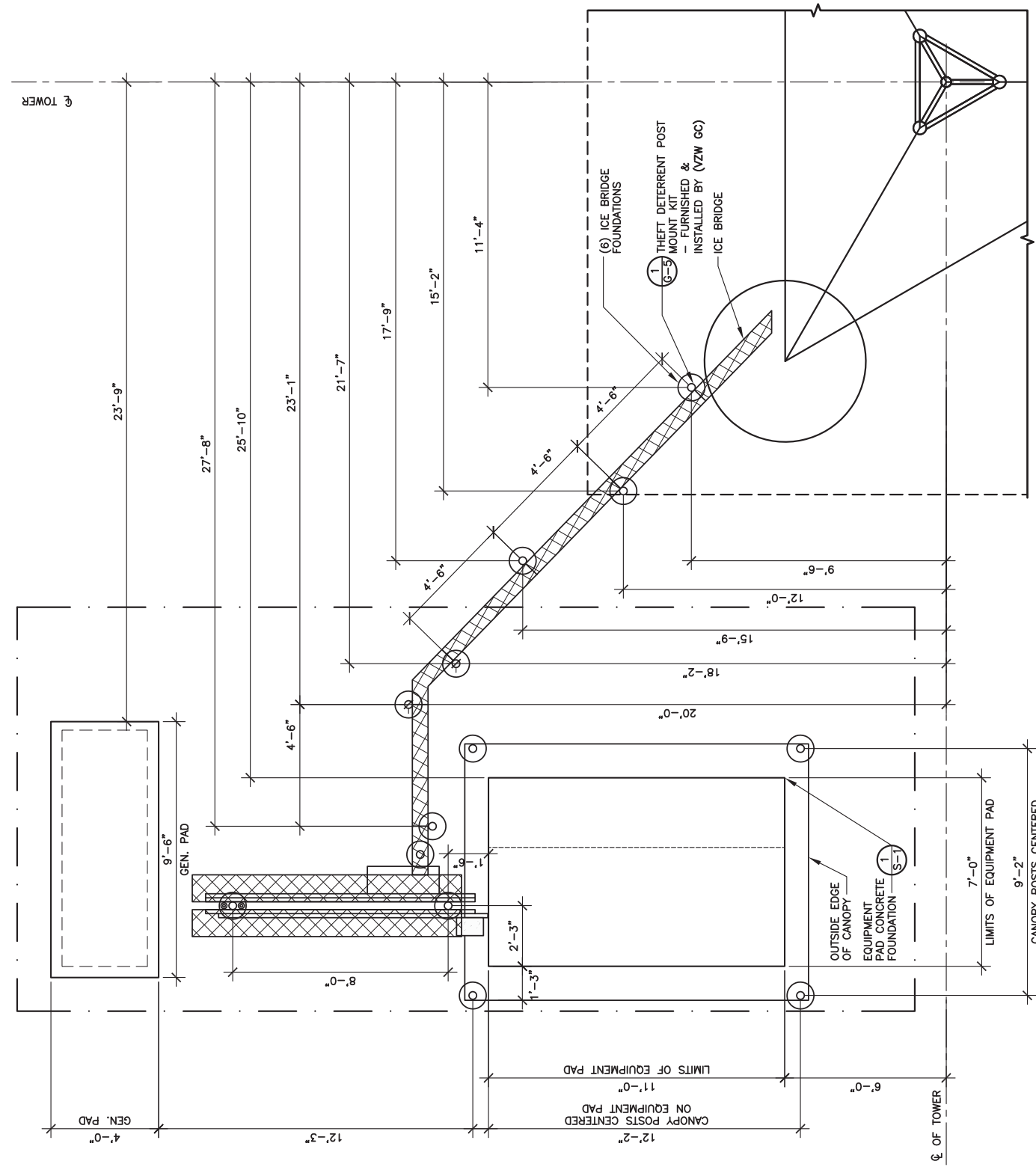
CONDUIT PENETRATION DETAIL
 SCALE: N.T.S.



GENERATOR ANCHOR DETAIL
 SCALE: N.T.S. (VZW GC)



EQUIPMENT CABINET MOUNTING DETAIL
 SCALE: N.T.S.



FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"

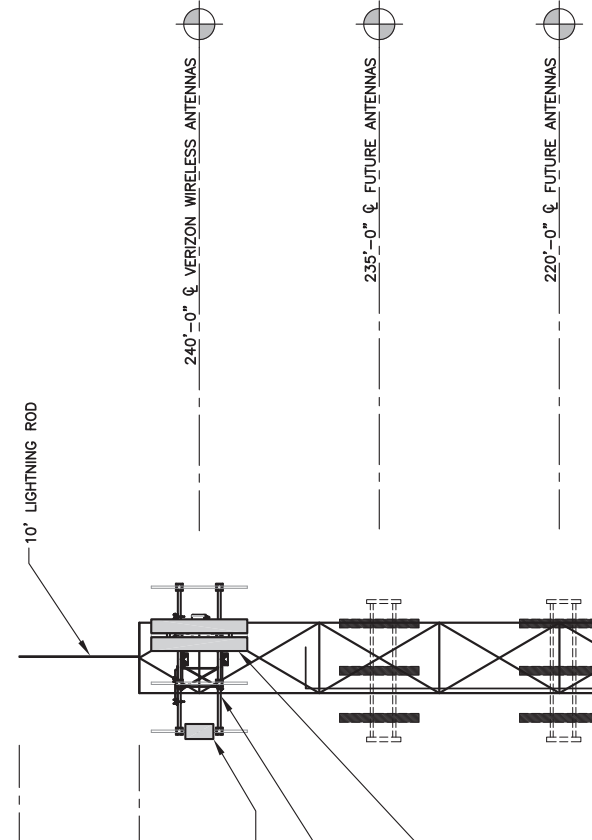
255'-0" TOP OF APPURTENANCE
TOTAL TOWER HEIGHT

245'-0" TOP OF TOWER

VERIZON WIRELESS ANTENNAS MOUNTED AT 240' 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)



245' SELF SUPPORT TOWER w/10' LIGHTNING ROD
-TOTAL TOWER HEIGHT 255'

VERIZON WIRELESS PREFABRICATED RADIO EQUIPMENT CANOPY (VZW GC)

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 RURAL CELLULAR CORP
- 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.



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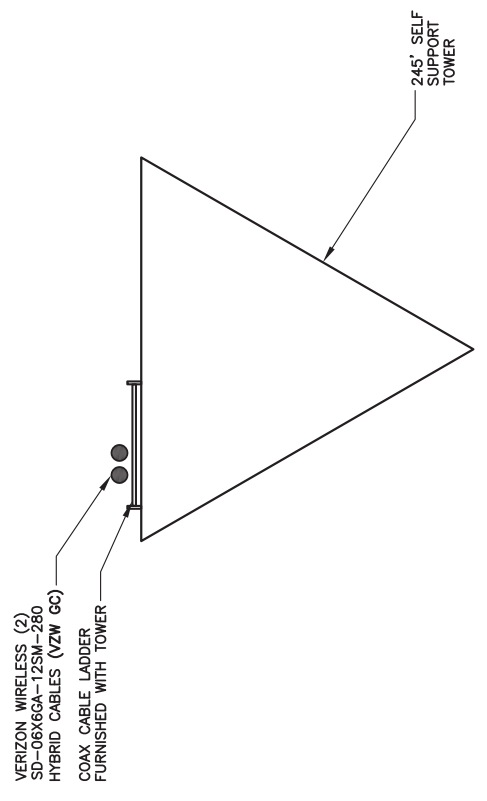
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US-KY-5198

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CLEMENTSVILLE

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DRAWN BY: RC
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SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1



COAX PLAN
SCALE: N.T.S.

TOWER ELEVATION
SCALE: N.T.S.

1
TE-1

4" SIDR-11.5 "VERIZON ONLY"
HDPE CONDUIT WITH INTEGRATED
INNERDUCT (±100 L.F.)
- SEE DETAIL ON SHEET E-5
- SEE GENERAL NOTE 6 & 10
ON SHEET C-6

INSTALL GFS ANTENNA,
COAX, DIN FEMALE
CONNECTOR, GROUND
COAX (VZW GC)

2 1/2" PVC UNDERGROUND
ELECTRIC CONDUIT w/PULL TAPES
(±100 L.F.)
- SEE DETAILS ON SHEET E-5
- SEE GENERAL NOTE 6 & 10 ON
SHEET C-6

(3) 3/0 AWG (1) 2 AWG WITHIN
TOWER OWNER INSTALLED 2 1/2"
PVC CONDUIT (VZW GC)

SEE PAD UTILITY PLAN ON SHEET
E-2 FOR EQUIPMENT AND
GENERATOR CONDUIT DESCRIPTIONS
VERIZON WIRELESS
7'-0"X11'-0" CONCRETE
RADIO EQUIPMENT PAD
VERIZON WIRELESS
9'-6"X12'-9" RADIO
EQUIPMENT CANOPY (VZW GC)

VERIZON WIRELESS
4'-0"X9'-6" CONCRETE
GENERATOR PAD
VZW 30KW DIESEL
GENERATOR (VZW GC)

VZW H-FRAME SUPPORT
STRUCTURE
10'-0" VZW H-FRAME
ICE BRIDGE
SEE SERVICE ENTRANCE

225 AMP, 120/240 VAC INTEGRATED
LOAD CENTER (VZW GC)
SEE CONDUIT ENTRANCE

1'-7"
FIBER
STUB UP

6"
FIBER
STUB UP

24"x36" VEHICLE RATED HAND
HOLE FOR VERIZON WIRELESS
ONLY FIBER SERVICE

4" SIDR-11.5 "VERIZON ONLY"
HDPE CONDUIT WITH INTEGRATED
INNERDUCT (±1400 L.F.)
- SEE GENERAL NOTE 6 & 10
ON SHEET C-6

PIPE BOLLARD
Ø=2 (TYP. OF 3)

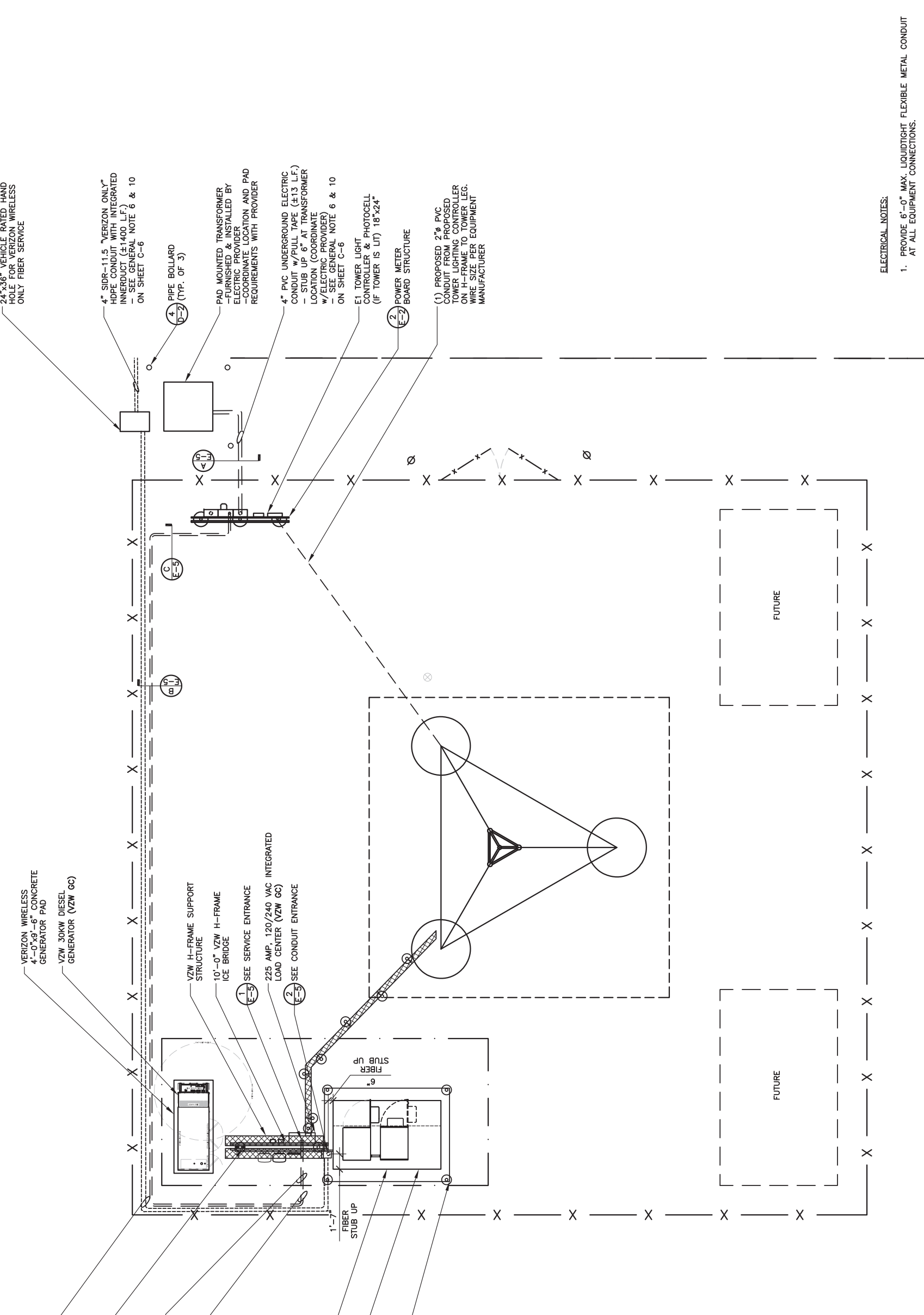
PAD MOUNTED TRANSFORMER
- FURNISHED & INSTALLED BY
ELECTRIC PROVIDER
- COORDINATE LOCATION AND PAD
REQUIREMENTS WITH PROVIDER

4" PVC UNDERGROUND ELECTRIC
CONDUIT w/PULL TAPE (±13 L.F.)
- STUB UP 6" AT TRANSFORMER
LOCATION (COORDINATE
w/ELECTRIC PROVIDER)
- SEE GENERAL NOTE 6 & 10
ON SHEET C-6

E1 TOWER LIGHT
CONTROLLER & PHOTOCELL
(IF TOWER IS LIT) 18"x24"

POWER METER
BOARD STRUCTURE

(1) PROPOSED 2" PVC
CONDUIT FROM PROPOSED
TOWER LIGHTING CONTROLLER
ON H-FRAME TO TOWER LEG.
WIRE SIZE PER EQUIPMENT
MANUFACTURER



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 IMC WITH
WEATHERPROOF FITTINGS.



SITE UTILITY PLAN

SCALE: N.T.S.



PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
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SHEET TITLE:
SITE UTILITY PLAN

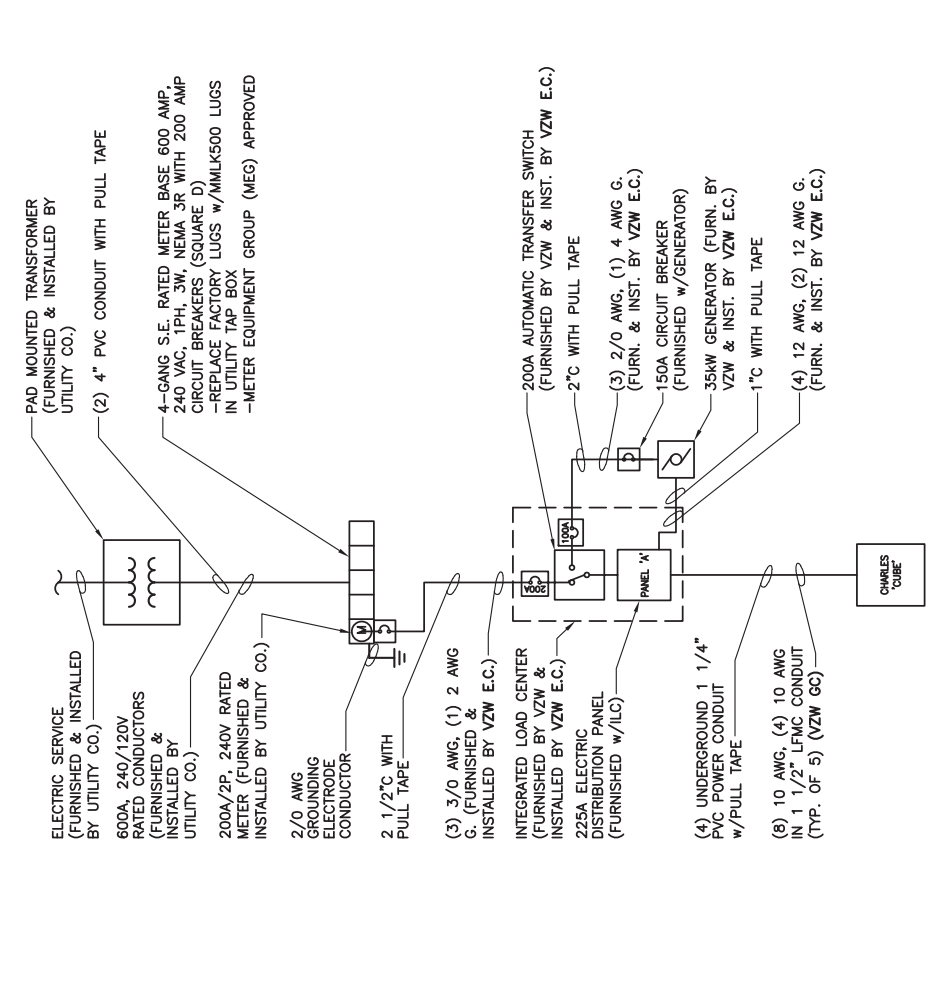
SHEET NUMBER:
E-1
MK PWD & COMPANY REV 3 FINAL 10/16/23

VERIZON PANEL "A" SCHEDULE			
MAIN: 225/2		VOLTAGE: 120/240	PHASE: 1 WIRE: 3
DESCRIPTION	BRKR.	WATTS	DESCRIPTION
RECTIFIER #1	30/2	1800	RECTIFIER #2
RECTIFIER #3	30/2	1800	RECTIFIER #4
RECTIFIER #5	30/2	1800	RECTIFIER #6
RECTIFIER #7	30/2	1800	RECTIFIER #8
SPACE		18	SPACE
SPACE		20	SPACE
SPACE		21	SPACE
SPACE		23	SPACE
SPACE		25	SPACE
SPACE		26	SPACE
SPACE		27	SPACE
SPACE		28	SPACE
SPACE		29	SPACE
GFCI RECEPTACLE (RF CABINET)	15/1	180	TOWER LIGHTING CONTROLLER
GEN. BLOCK HEATER	20/1	1500	GFCI RECEPTACLE
CANOPY LIGHTS	15/1	126	GEN. BATTERY CHARGER

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
 (E.C. SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

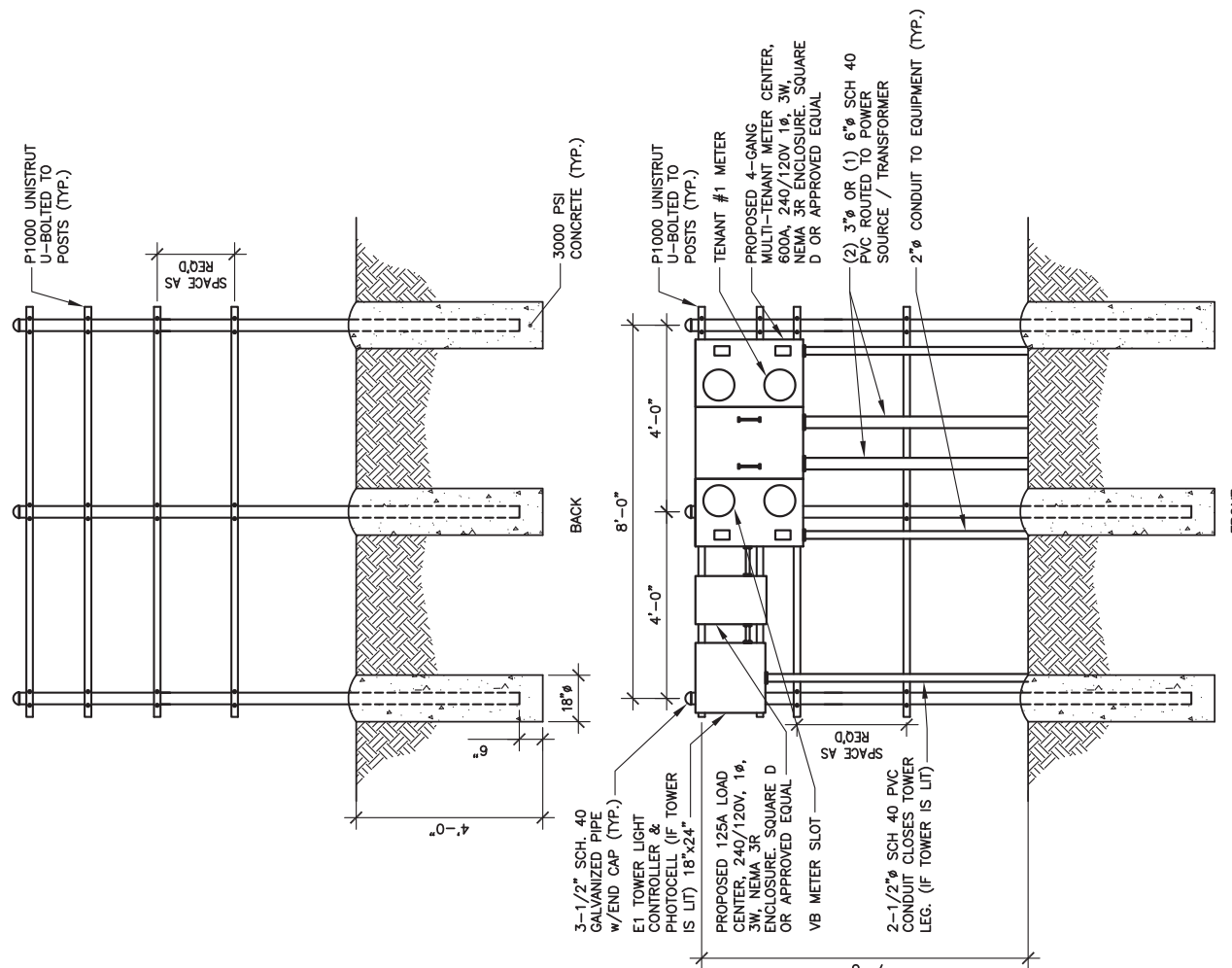
PANEL SCHEDULE "A"

SCALE: N.T.S.



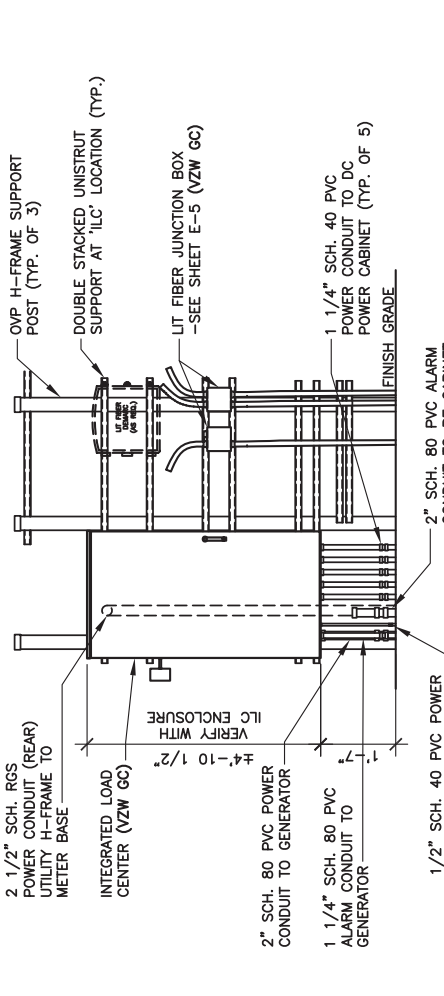
ONE LINE DIAGRAM

SCALE: N.T.S.



POWER/TELCO H-FRAME

SCALE: 1/4" = 1'-0"



VZW ILC MOUNTING DETAIL

SCALE: 1/4" = 1'-0"



750 PARK OF COMMERCE DRIVE
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SHEET TITLE:
**PANEL SCHEDULE,
 ONE LINE DIAGRAM,
 ELECTRICAL NOTES
 AND DETAILS**

SHEET NUMBER:
E-2

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

- ### 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 DEVICES TO TOWER PERSONNEL. 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 FURTH 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 OR WORKER SAFETY PUBLICATIONS. ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL LANSOWNER PRIME CONTRACTOR, OSHA, NFA, NFA 70E 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 FIRST GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT COPPER 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:
 a) AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE.
 b) VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE.
 c) VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER "ILC".
 d) GENERATOR NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND AUTOMATIC TRANSFER SWITCH "ATS" NEUTRAL BAR.
 e) VERIZON WIRELESS GENERATOR
 f) ACCESS PROPERTY OF VERIZON WIRELESS' AT ALL VERIZON WIRELESS FIBER HAND HOLES FASTENED TO INSIDE WALL OF HAND HOLE.
 g) ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
 h) ELECTRICAL EQUIPMENT SHALL BE MIN. 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
 i) 2 AWG BARE SOLID TINNED COPPER WIRE LEADS FROM NEW H-FRAME STRUCTURE TO BE BONDED TO EXISTING GROUNDING SYSTEM (TYP)
 j) ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH 2 AWG TO GROUND RING.
 k) 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.
 l) ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL, NO ZINC OR OTHER MATERIAL IS TO BE USED.
 m) VERIZON WIRELESS FURNISH & INSTALL ALL INNER CONNECTING CONDUITS BETWEEN CABINETS AND LAND ALL AC POWER TO VZW EQUIPMENT.
 n) 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.

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

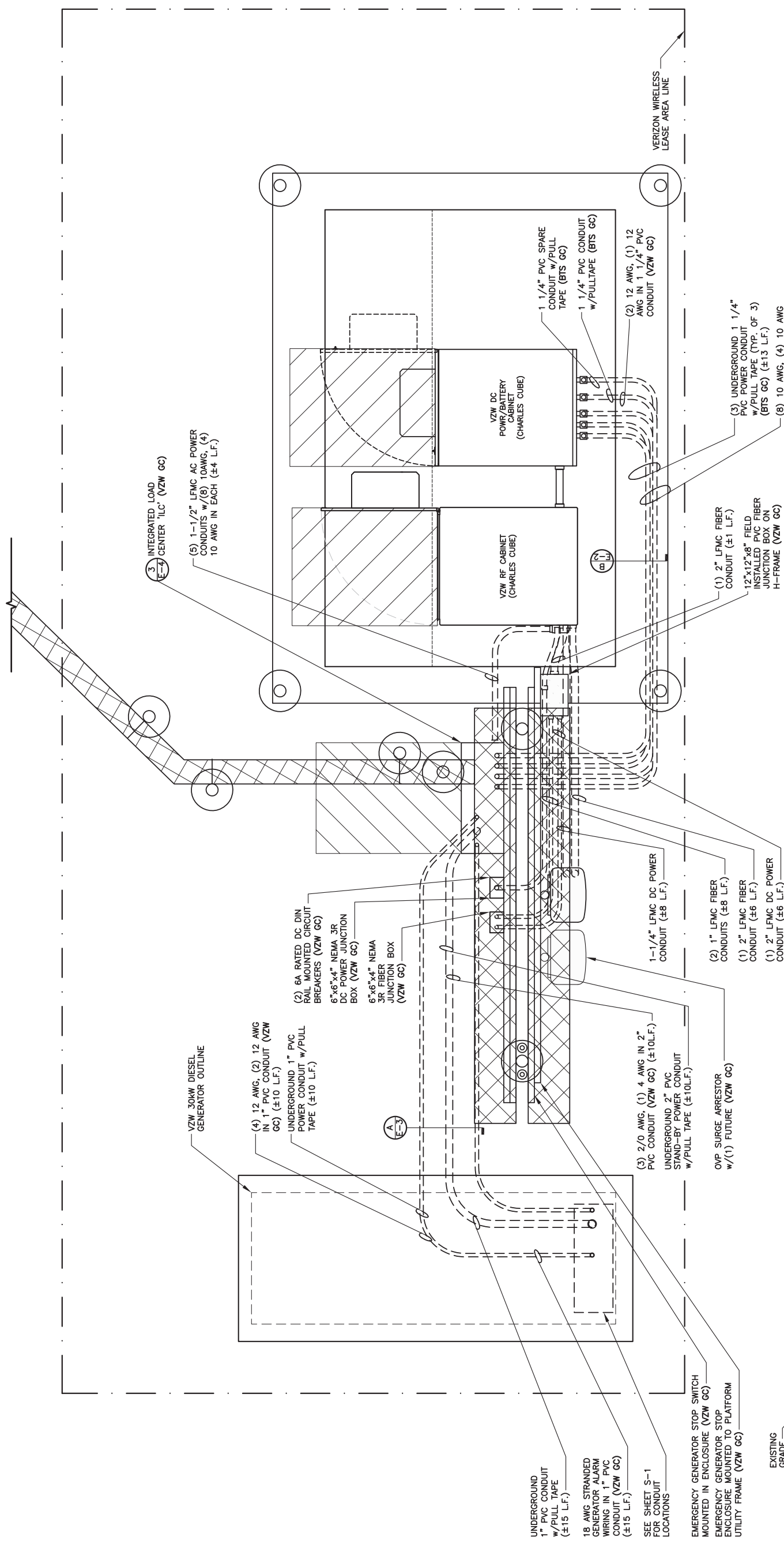
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**EQUIPMENT PAD
UTILITY PLAN &
EQUIPMENT PAD
TRENCH SECTIONS**

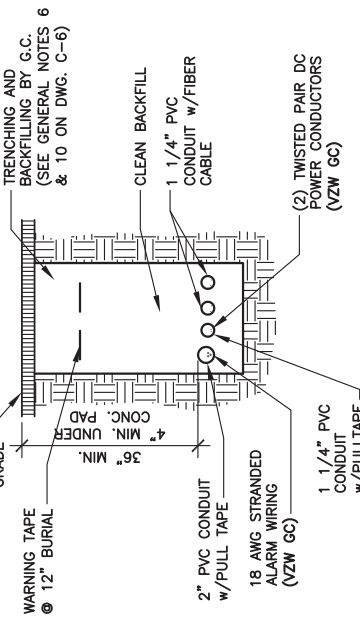
SHEET NUMBER:
E-3
MK PWD & CADDY REV 3 FINAL 10/16/23



- 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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340 CASEY CREEK ROAD,
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CASEY COUNTY

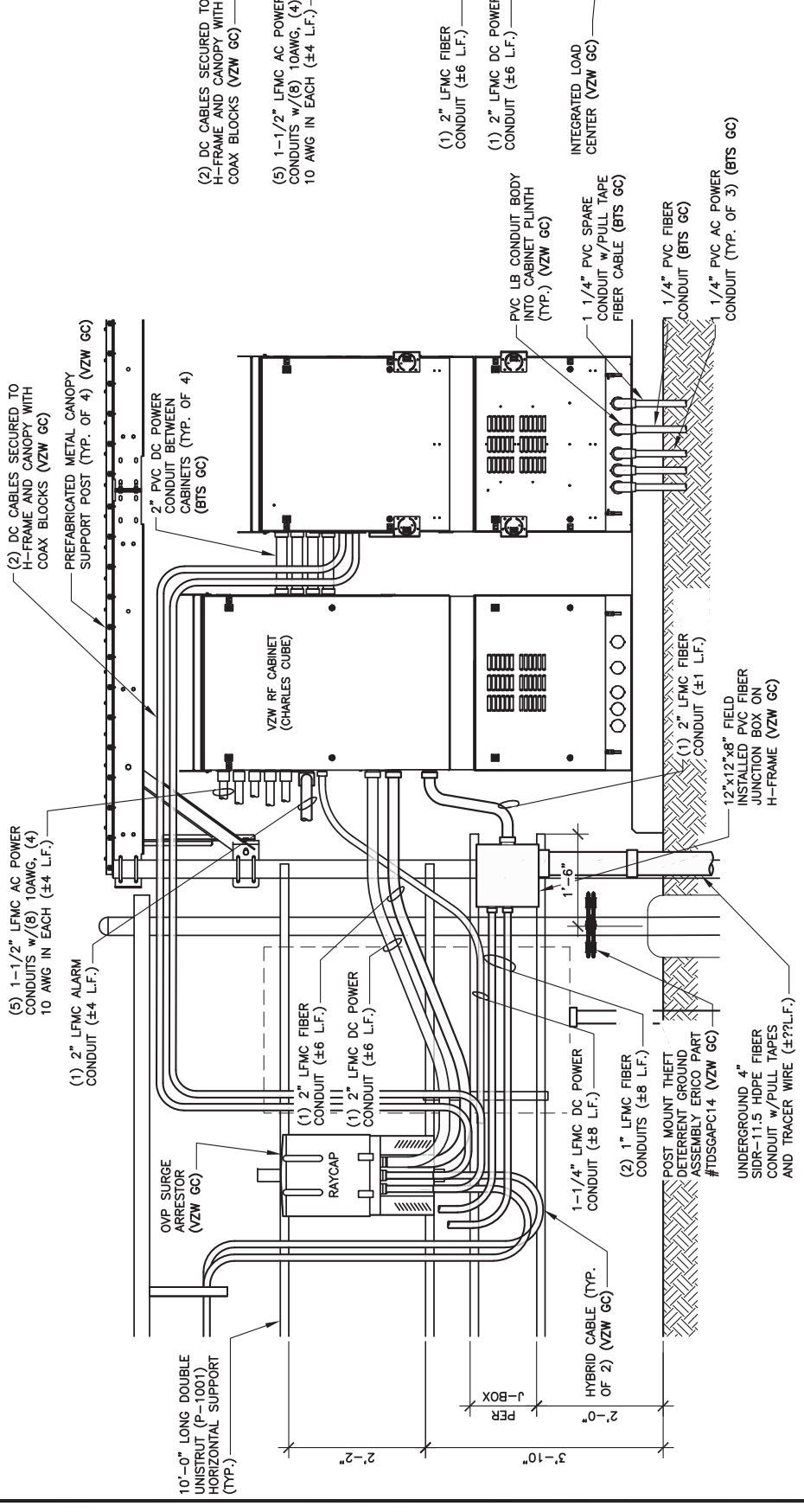
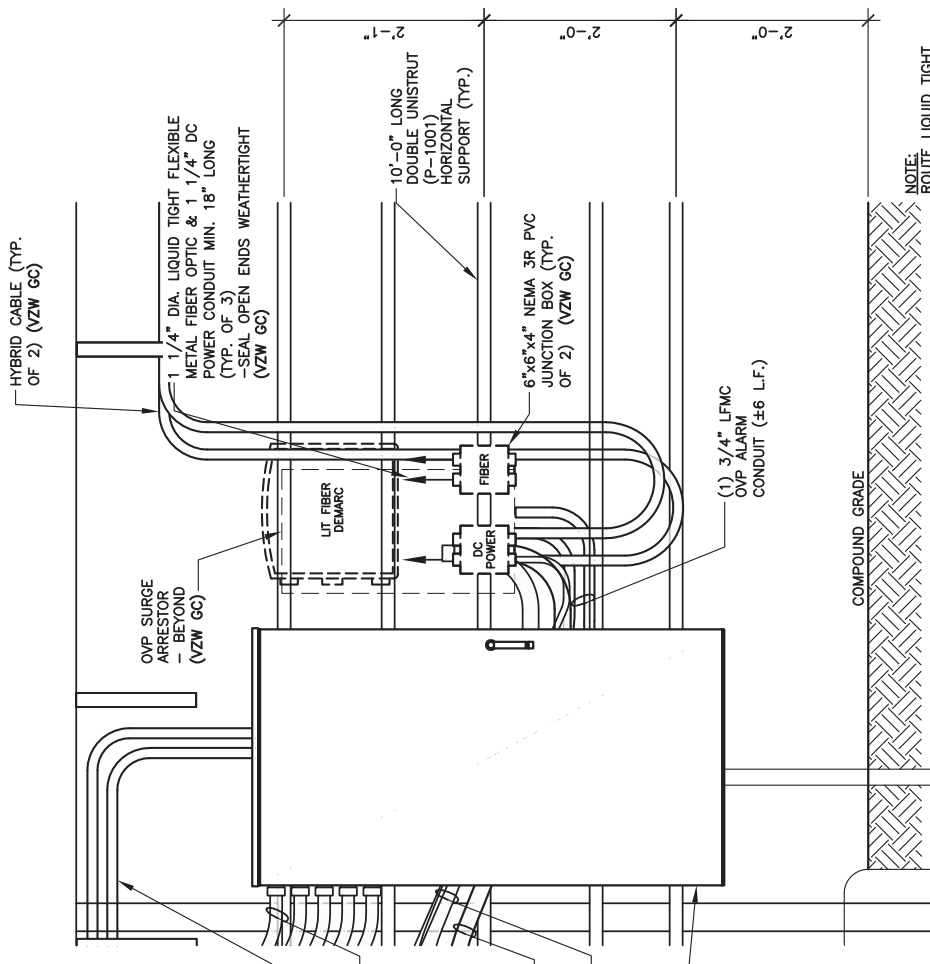
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**OVP & INTEGRATED
LOAD CENTER
H-FRAME ELEVATIONS
AND DETAILS**

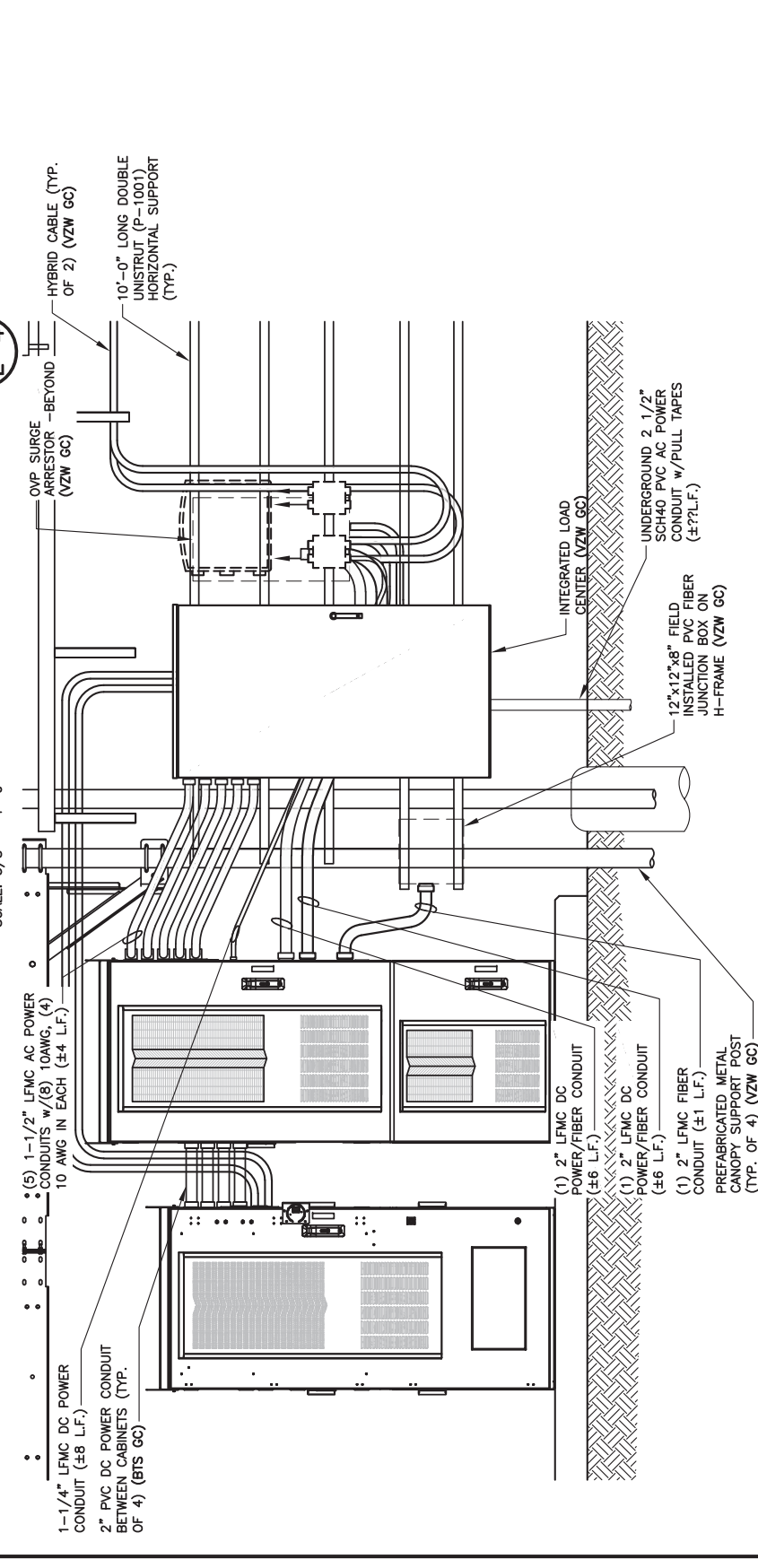
SHEET NUMBER:
E-4



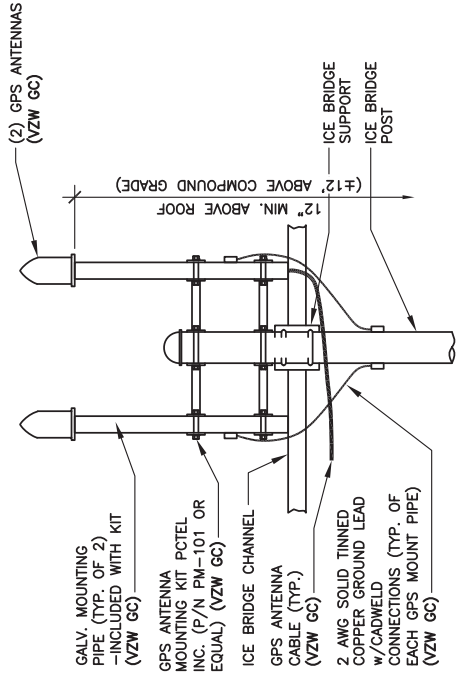
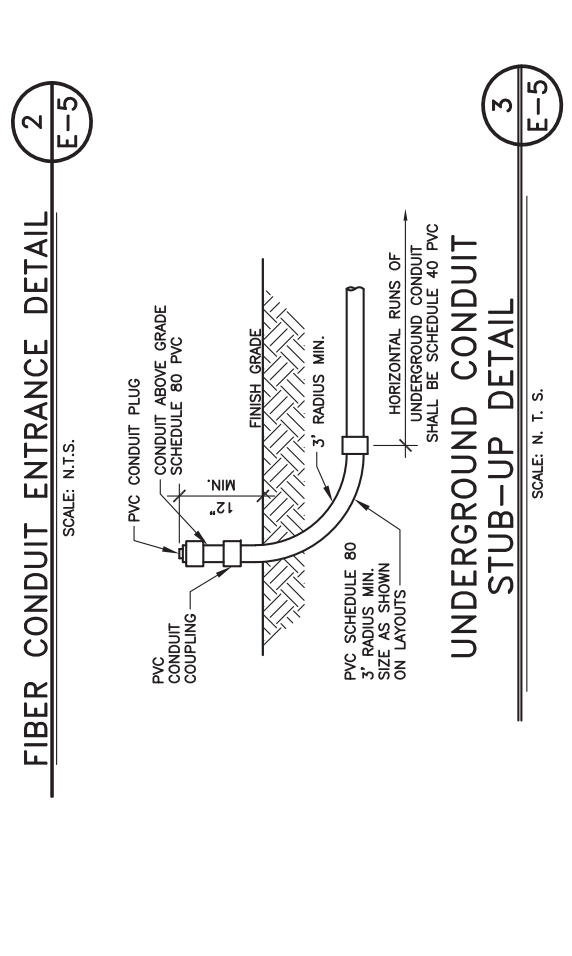
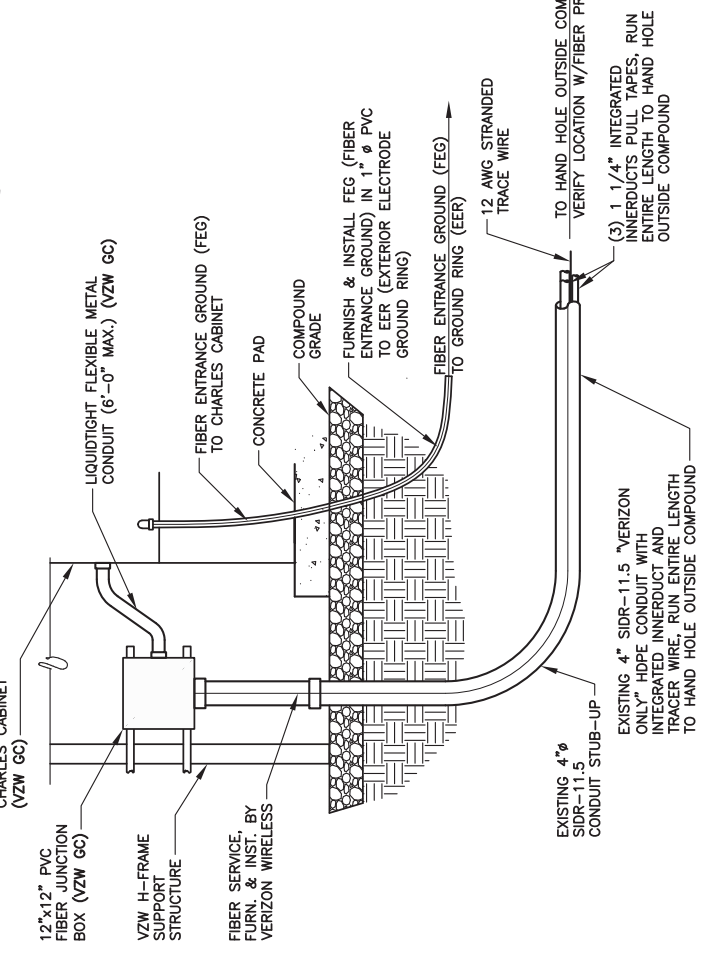
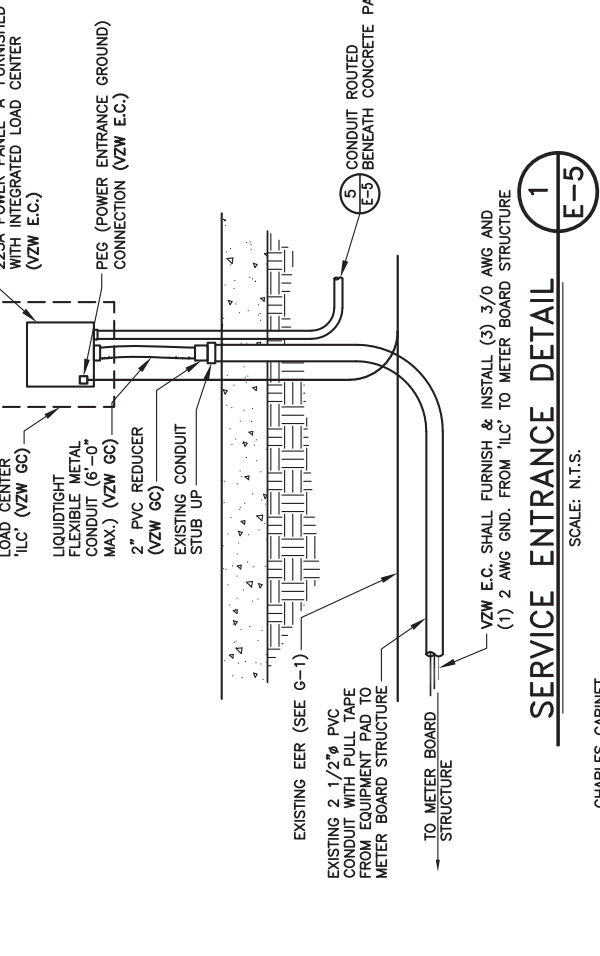
NOTE:
ROUTE LIQUID TIGHT FLEXIBLE METAL CONDUITS IN OPEN SPACE BETWEEN UNISTRUT SUPPORTS TO PVC CONDUIT STUB-UPS

ENLARGED OVP H-FRAME ELEVATION (LIT FIBER DEMARC)
SCALE: 1/2" = 1'-0"

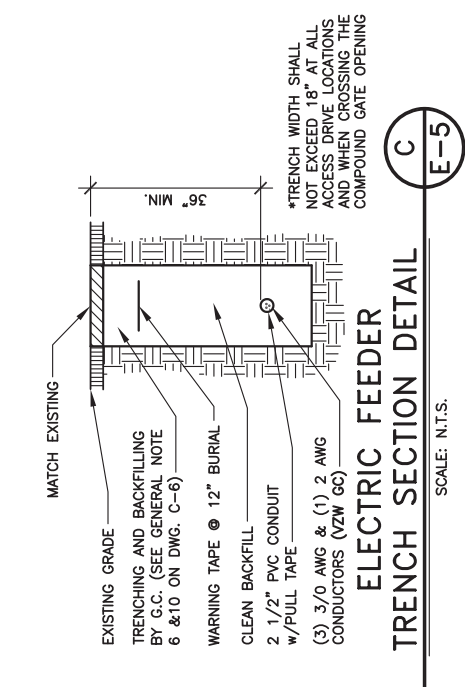
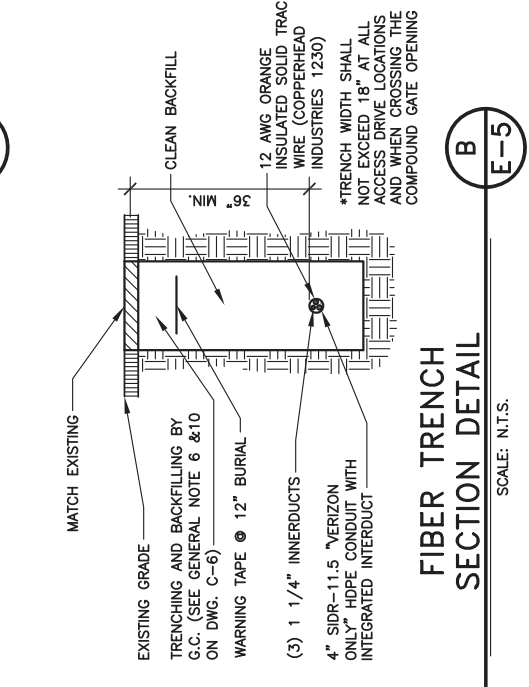
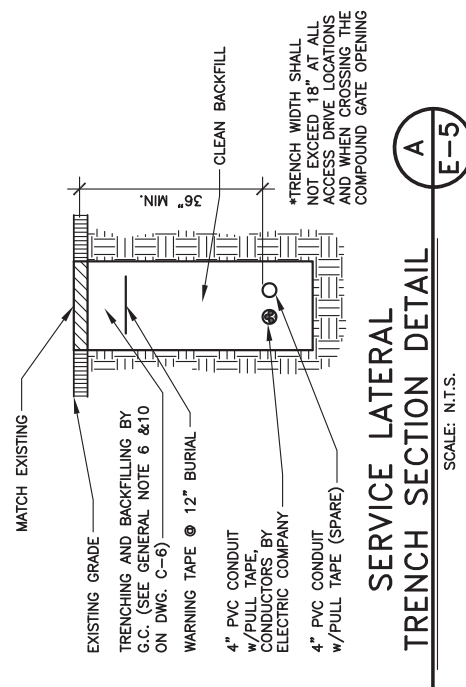
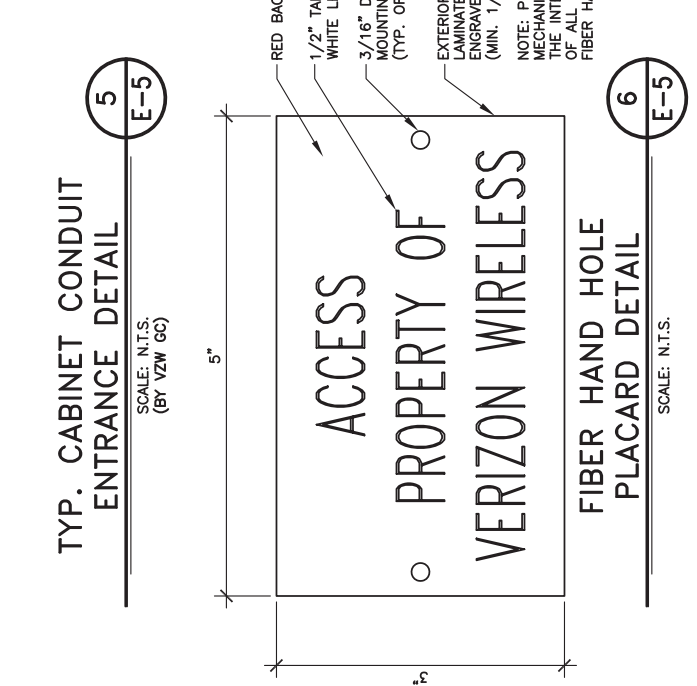
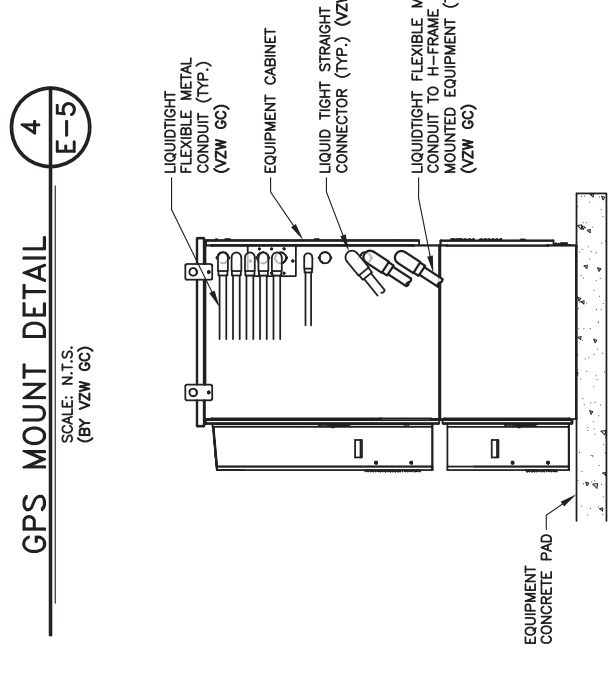
1
E-4
OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) - REAR
SCALE: 3/8" = 1'-0"



2
E-4
OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT
SCALE: 3/8" = 1'-0"



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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LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
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DATE: 03.12.24

SHEET TITLE:
**ELECTRICAL
DETAILS**

SHEET NUMBER:
E-5

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
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CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

SITE NUMBER:
 US-KY-5198

SITE NAME:
 CLEMENTSVILLE

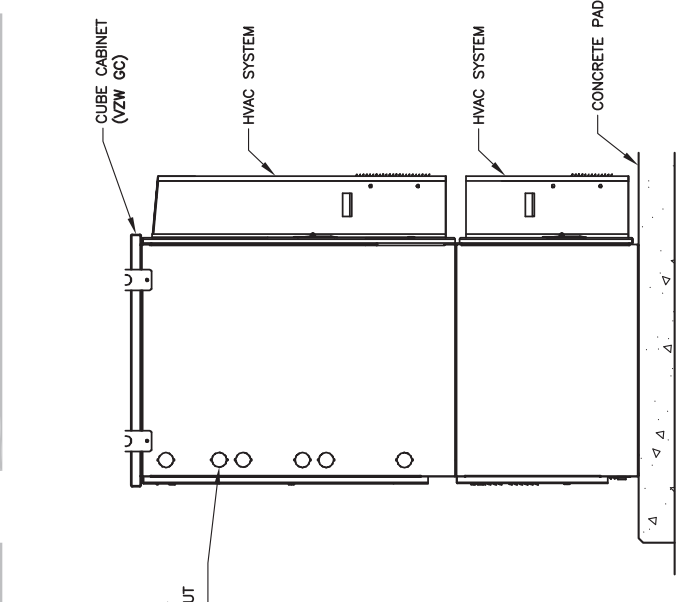
PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**EQUIPMENT CABINET
 ELEVATIONS**

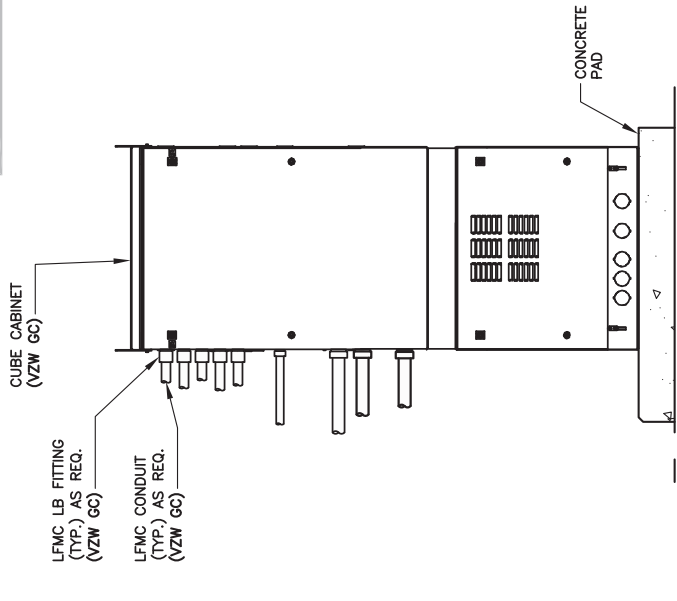
SHEET NUMBER:
E-6
INK PAD & CANOPY REV 3 FINAL 10/16/23

NOTE:
 VERIFY INTERIOR EQUIPMENT LOCATION PRIOR TO
 JUNCTION BOX FASTENER INSTALLATION. NO SHARP
 FASTENER EDGES PERMITTED WITHIN CHARLES CABINET

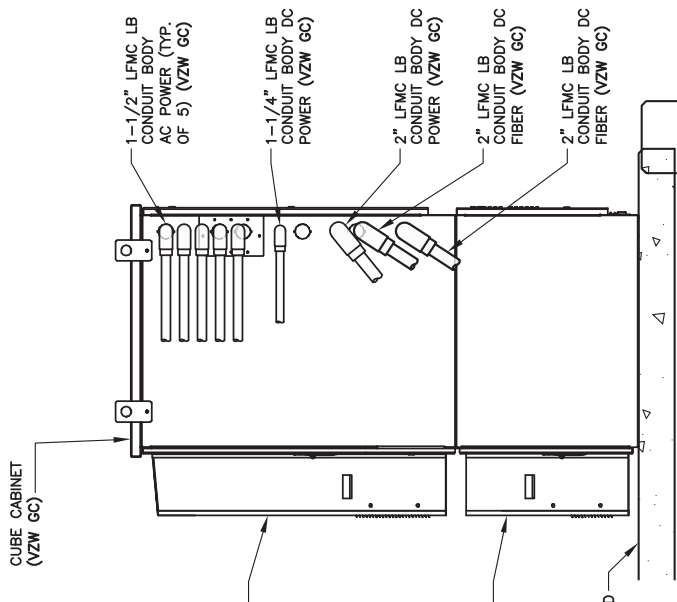
NOTE:
 FIBER OPTIC INNERDUCTS SHALL
 TERMINATE INSIDE CHARLES CABINET
 ONLY



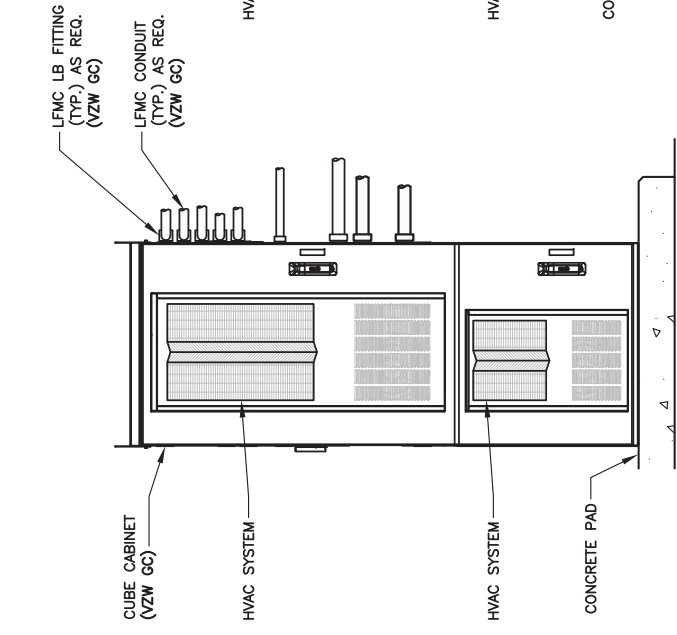
**RF CABINET
 LEFT ELEVATION**
 SCALE: N.T.S.



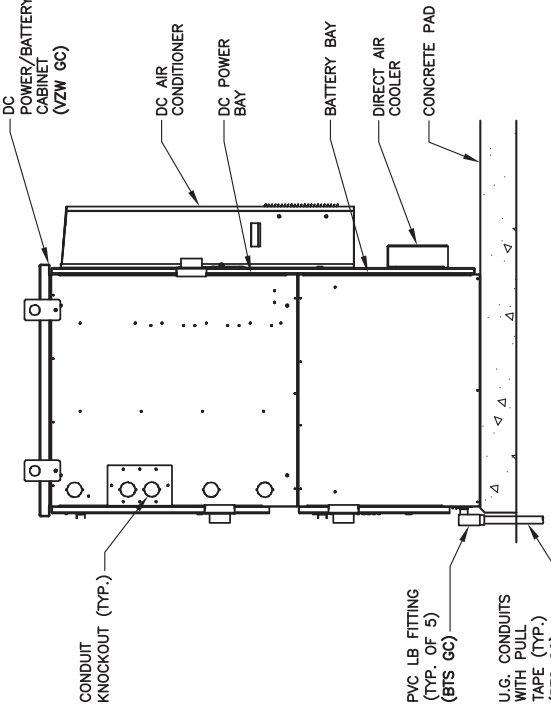
**RF CABINET
 REAR ELEVATION**
 SCALE: N.T.S.



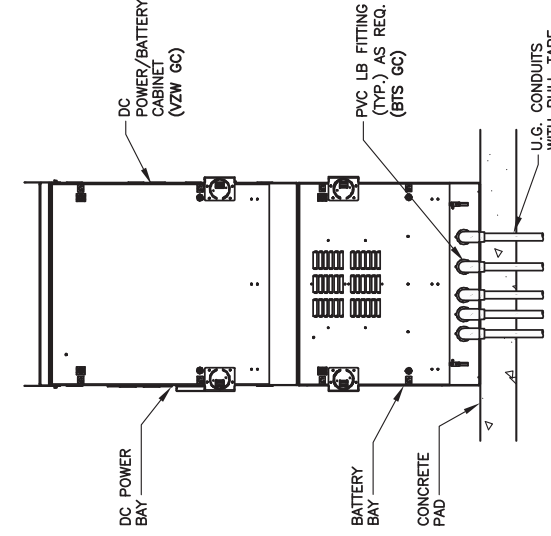
**RF CABINET
 RIGHT ELEVATION**
 SCALE: N.T.S.



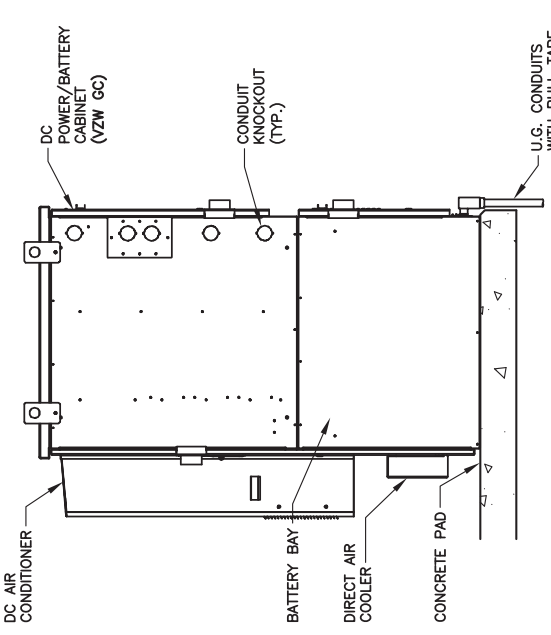
**RF CABINET
 FRONT ELEVATION**
 SCALE: N.T.S.



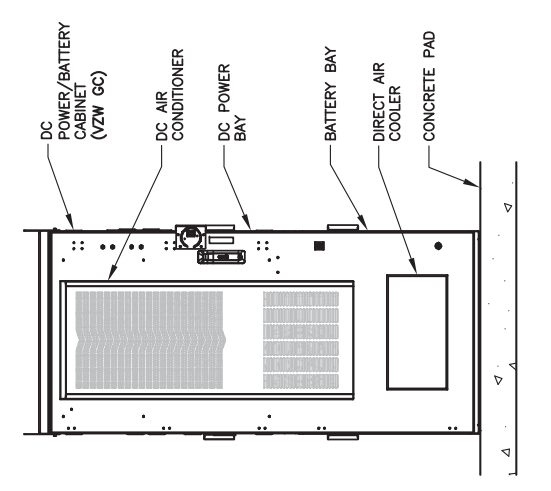
**DC POWER/BATTERY
 CABINET LEFT ELEVATION**
 SCALE: N.T.S.



**DC POWER/BATTERY
 CABINET REAR ELEVATION**
 SCALE: N.T.S.



**DC POWER/BATTERY
 CABINET RIGHT ELEVATION**
 SCALE: N.T.S.



**DC POWER/BATTERY
 CABINET FRONT ELEVATION**
 SCALE: N.T.S.

8
E-6

7
E-6

6
E-6

5
E-6

4
E-6

3
E-6

2
E-6

1
E-6

REV.	DATE	DESCRIPTION
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SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

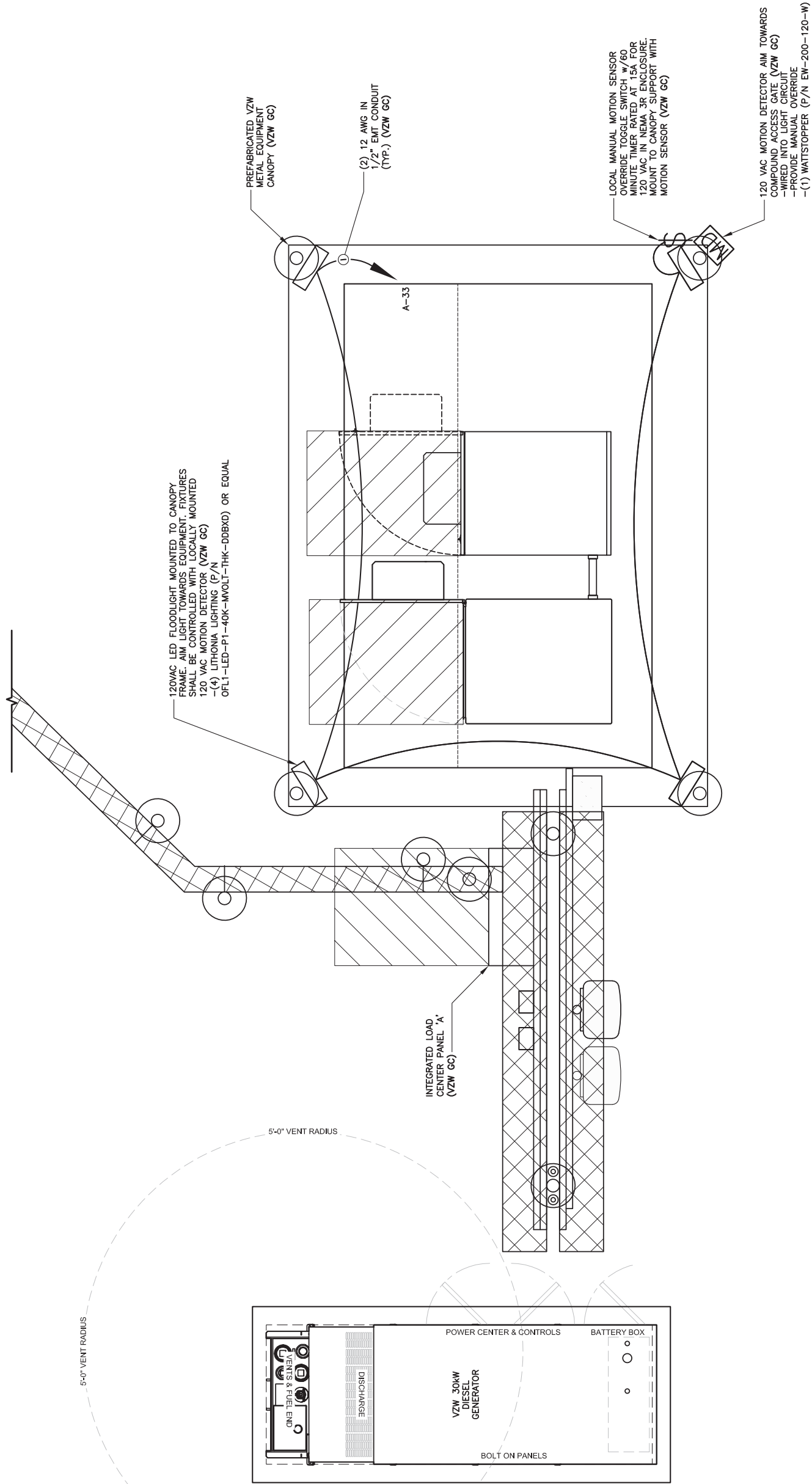
SHEET TITLE:

LIGHTING PLAN

SHEET NUMBER:

E-7

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



1
E-7

LIGHTING PLAN

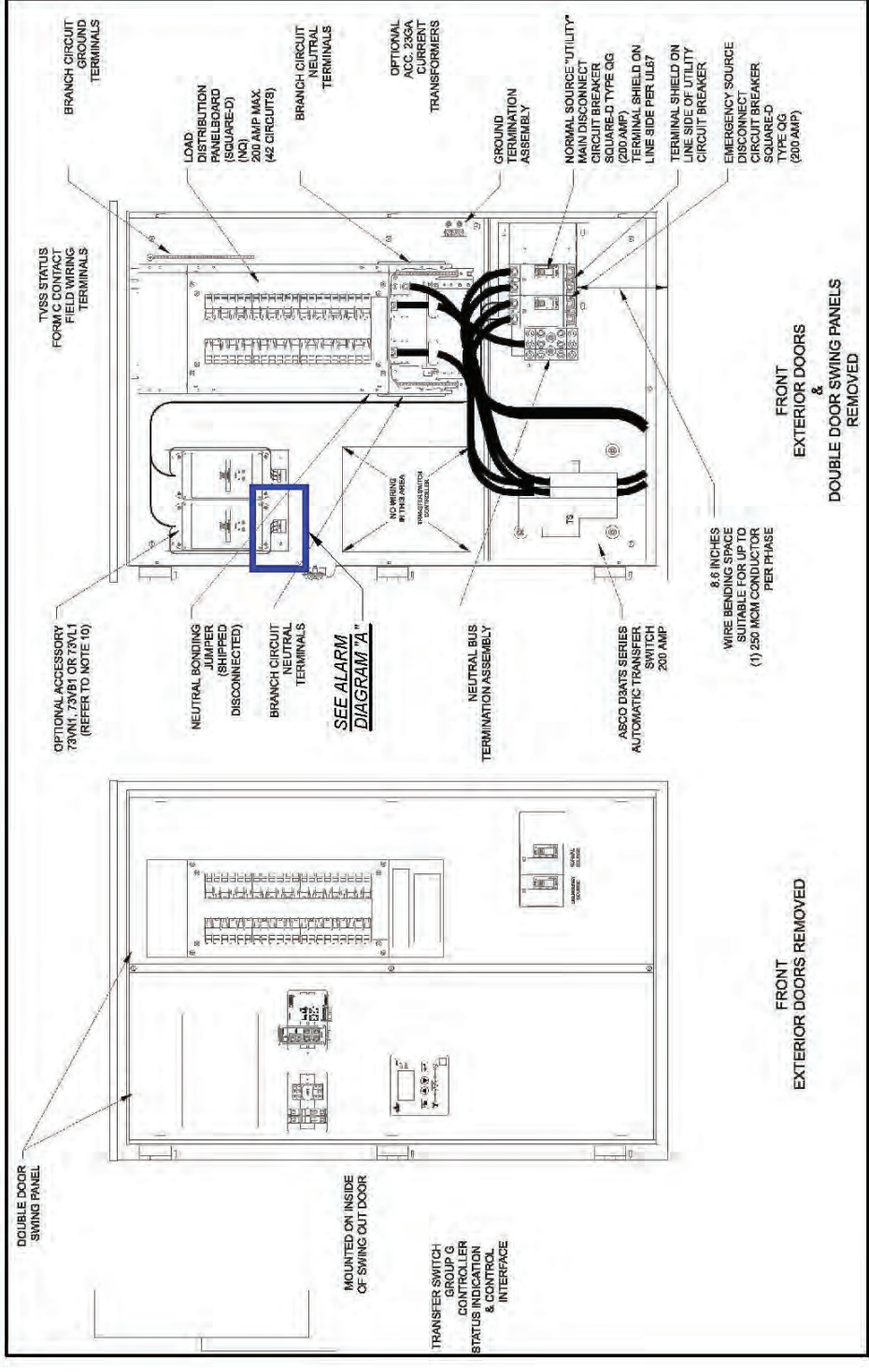
SCALE: N.T.S.

Alarm wiring table						
Alarm block pos	Wire color	Alarm	Wire Color	Misc Wiring - left side of panel	Alarm	Conn/Pos
1	White/Orange	Door Intrusion	White or Blue	Orange	Intrusion Alarm	
2	Orange	Commercial Power Failure	White or Blue	White/Orange	N/A	
3	White/Green	Surge Suppressor Lightning Arrestor	White or Blue	N/A	N/A	
4	Green	Rectifier Failure	White or Blue	N/A	N/A	
5	White/Blue	Multiple Rectifier Failure	White or Blue	Green/White	Rectifier Failure	J4 Pos 8
6	Blue	Battery Discharge	Red or Blue	Red/Green	Multiple Rectifier Failure	J4 Pos 18
7	White/Brown	Low Voltage	Red or Blue	White/Red	Battery Discharge	J4 Pos 9
8	Brown	DC Power Failure	Red or Blue	Red/White	Low Voltage	J4 Pos 19
9	White/Orange	Generator Running	Black or Blue	White	High Voltage	J4 Pos 4
10	Orange	Generator Low Fuel	Black or Blue	Black	Fuse	J4 Pos 5
11	White/Green	Generator Failure	Black or Blue	Black/White	RRH Upconverter Failure	J4 Pos 15
12	Green	HVAC Failure	Black or Blue	Blue/White	N/A	J4 Pos 6
13	White/Blue	High Temp	Yellow or Blue	Red/Black	N/A	J4 Pos 20
14	Blue	Low Temp	Yellow or Blue	N/A	N/A	
15	White/Brown	Tower Light	Yellow or Blue	White/Blue	N/A	
16	Brown	Tower Light Side	Yellow or Blue	Green	N/A	
17	White/Orange	RRH Upconverter Failure	Violet or Blue	White/Green	Overheat Alarm	
18	Orange	RRH Power Failure	Violet or Blue	N/A	N/A	
19	White/Green	RRH High Humidity	Violet or Blue	N/A	N/A	
20	Green	RRH Intrusion	Violet or Blue	N/A	N/A	
21	White/Blue	Smoke Fire	Blue	N/A	N/A	
22	Blue	Bus Bar Theft	Blue	N/A	N/A	
23	White/Brown	N/A	Blue	N/A	N/A	
24	Brown	N/A	Blue	N/A	N/A	
25	White/Orange	N/A	Blue	N/A	N/A	
26	Orange	N/A	Blue	N/A	N/A	
27	White/Green	N/A	Blue	N/A	N/A	
28	Green	N/A	Blue	N/A	N/A	
29	White/Blue	N/A	Blue	N/A	N/A	
30	Blue	N/A	Blue	N/A	N/A	
31	White/Brown	N/A	Blue	N/A	N/A	
32	Brown	N/A	Blue	N/A	N/A	
33	White/Orange	N/A	Blue	N/A	N/A	
34	Orange	N/A	Blue	N/A	N/A	
35	White/Green	N/A	Blue	N/A	N/A	
36	Green	N/A	Blue	N/A	N/A	
37	White/Blue	N/A	Blue	N/A	N/A	
38	Blue	N/A	Blue	N/A	N/A	
39	White/Brown	N/A	Blue	N/A	N/A	
40	Brown	N/A	Blue	N/A	N/A	
41	White/Orange	N/A	Blue	N/A	N/A	
42	Orange	N/A	Blue	N/A	N/A	
43	White/Green	N/A	Blue	N/A	N/A	
44	Green	N/A	Blue	N/A	N/A	
45	White/Blue	N/A	Blue	N/A	N/A	
46	Blue	N/A	Blue	N/A	N/A	
47	White/Brown	N/A	Blue	N/A	N/A	
48	Brown	N/A	Blue	N/A	N/A	
49	White/Orange	N/A	Blue	N/A	N/A	
50	Orange	N/A	Blue	N/A	N/A	
51	White/Green	N/A	Blue	N/A	N/A	
52	Green	N/A	Blue	N/A	N/A	
53	White/Blue	N/A	Blue	N/A	N/A	
54	Blue	N/A	Blue	N/A	N/A	
55	White/Brown	N/A	Blue	N/A	N/A	
56	Brown	N/A	Blue	N/A	N/A	
57	White/Orange	N/A	Blue	N/A	N/A	
58	Orange	N/A	Blue	N/A	N/A	
59	White/Green	N/A	Blue	N/A	N/A	
60	Green	N/A	Blue	N/A	N/A	
61	White/Blue	N/A	Blue	N/A	N/A	
62	Blue	N/A	Blue	N/A	N/A	
63	White/Brown	N/A	Blue	N/A	N/A	
64	Brown	N/A	Blue	N/A	N/A	
65-84	N/A	N/A	N/A	N/A	N/A	

ALARM WIRING TABLE

SCALE: N.T.S.

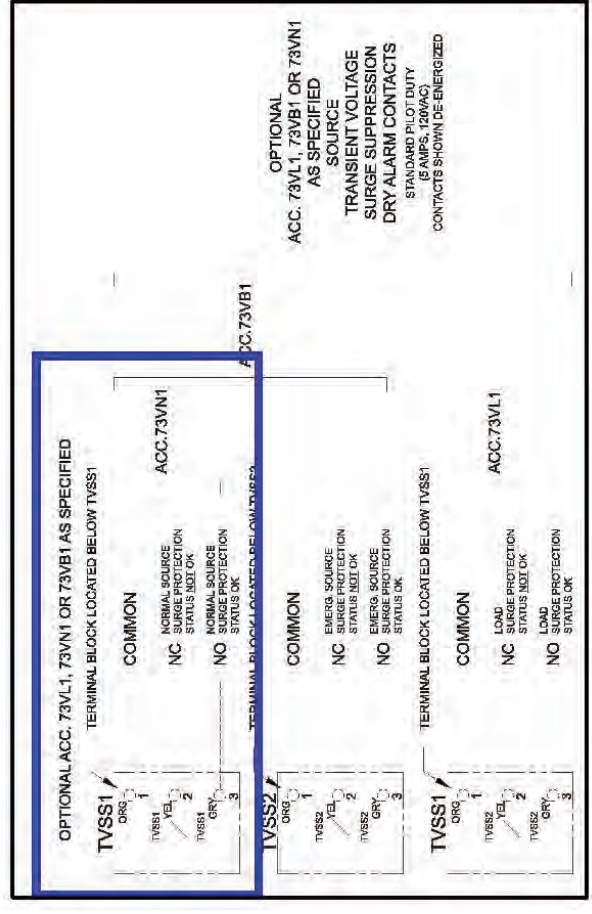
1
E-8



INTEGRATED LOAD CENTER DETAIL

SCALE: N.T.S.

2
E-8



NOTE:
1. VERIZON WIRELESS STANDARD
ALARM CONTACT NORMALLY CLOSED

ALARM DIAGRAM "A"

SCALE: N.T.S.

A
E-8



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (561) 968-8307



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

REV.	DATE	DESCRIPTION
1	06/24/21	REVISED
0	04/18/21	ISSUED FOR CONSTRUCTION
A	03/28/21	ISSUED FOR REVIEW



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CLEMENTSVILLE
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CASEY COUNTY

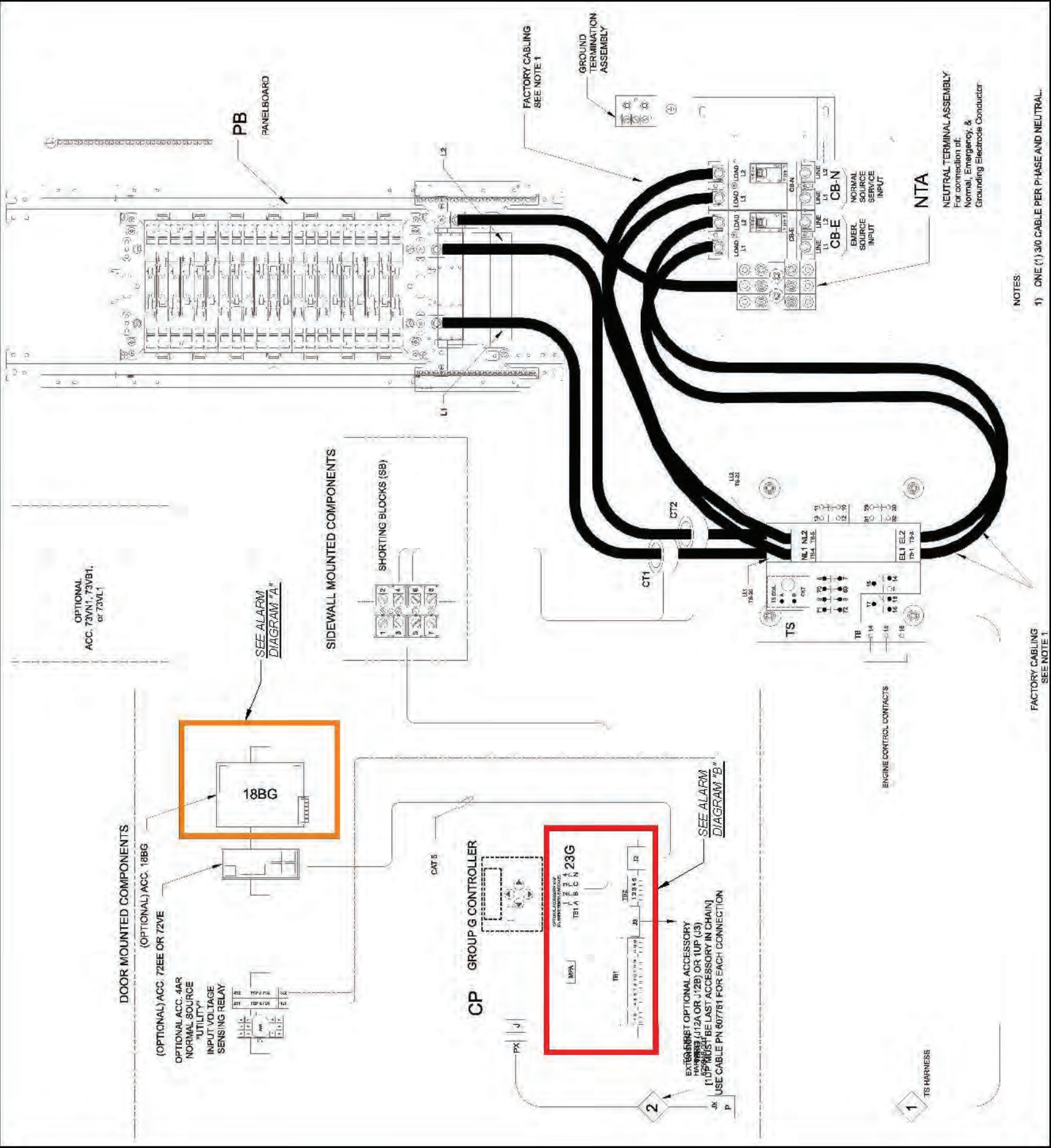
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**ALARMING TABLE AND
DETAILS (REFERENCE
ONLY)**

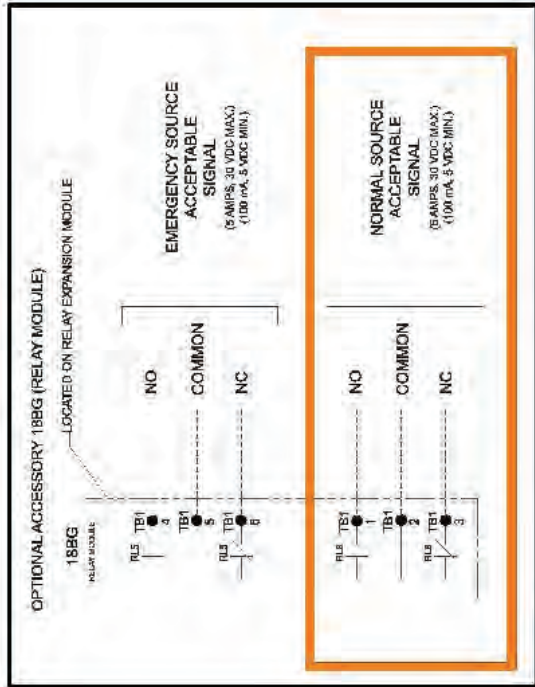
SHEET NUMBER:
E-8
MK P10 & COMPANY REV 3 FINAL 10/16/23



INTEGRATED LOAD CENTER DETAIL

SCALE: N.T.S.

1
E-9

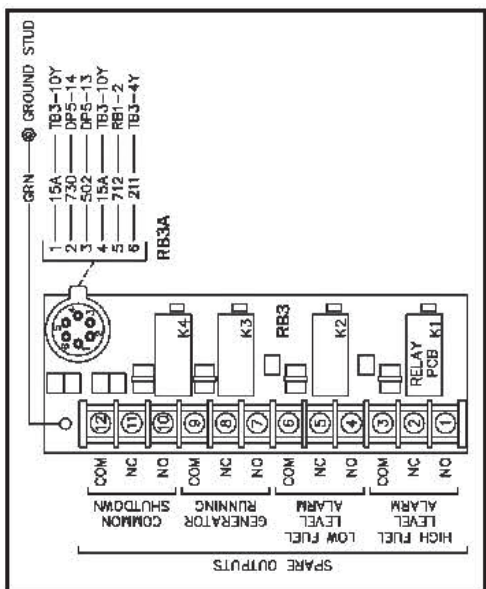


NOTE:
 1. VERIZON WIRELESS STANDARD ALARM CONTACT NORMALLY CLOSED

ALARM DIAGRAM "A"

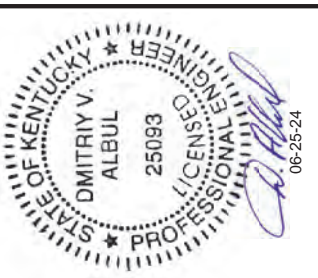
SCALE: N.T.S.

A
E-9



NOTE:
 1. FUEL LEVEL ALARMING IS FOR DIESEL FUEL ONLY GENERATORS
 2. VERIZON WIRELESS STANDARD ALARM CONTACT NORMALLY CLOSED

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947

DRAWN BY: RC
 CHECKED BY: PL
 DATE: 03.12.24

SHEET TITLE:
ALARMING DIAGRAMS AND DETAILS (REFERENCE ONLY)

SHEET NUMBER:
E-9

MK P10 & CAMPY REV 3 FINAL 10/16/23

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SHEET TITLE:
**ALARM AND FIBER
CABLE ROUTING
(REFERENCE ONLY)**

SHEET NUMBER:
E-10
MK PRO & CONCEPTS 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	8843 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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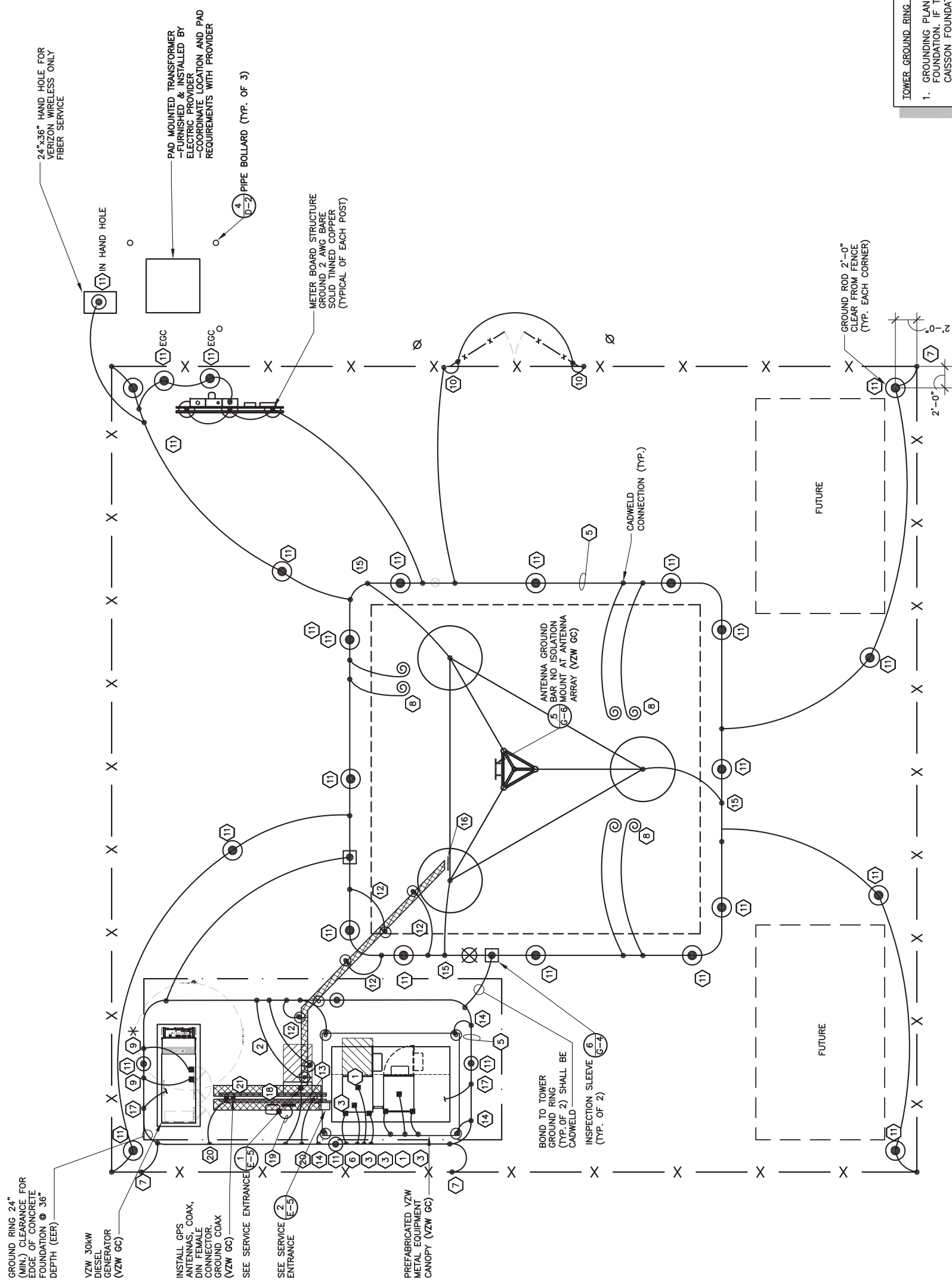
SHEET TITLE:
GROUNDING SITE PLAN

SHEET NUMBER:
G-1

DATE: 10/16/23
 MK PRO & CONCEPTS

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:

- ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.
- COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.
- 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 TWG: 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
FEG	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	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
PCSG	POWER ENTRANCE GROUND
PEG	PAD CANOPY SUPPORT GROUND
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
☉	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL
⊠	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION



750 PARK OF COMMERCE DRIVE
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PHONE: (248) 705-9212

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CASEY COUNTY

SITE NUMBER:
US-KY-5198

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SHEET TITLE:

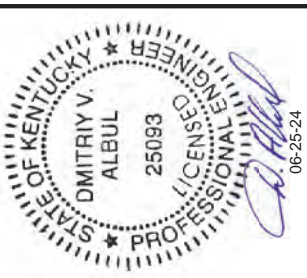
GROUNDING NOTES

SHEET NUMBER:

G-2

INK PLO & CANOPY REV 3 FINAL 10/16/23

REV.	DATE	DESCRIPTION
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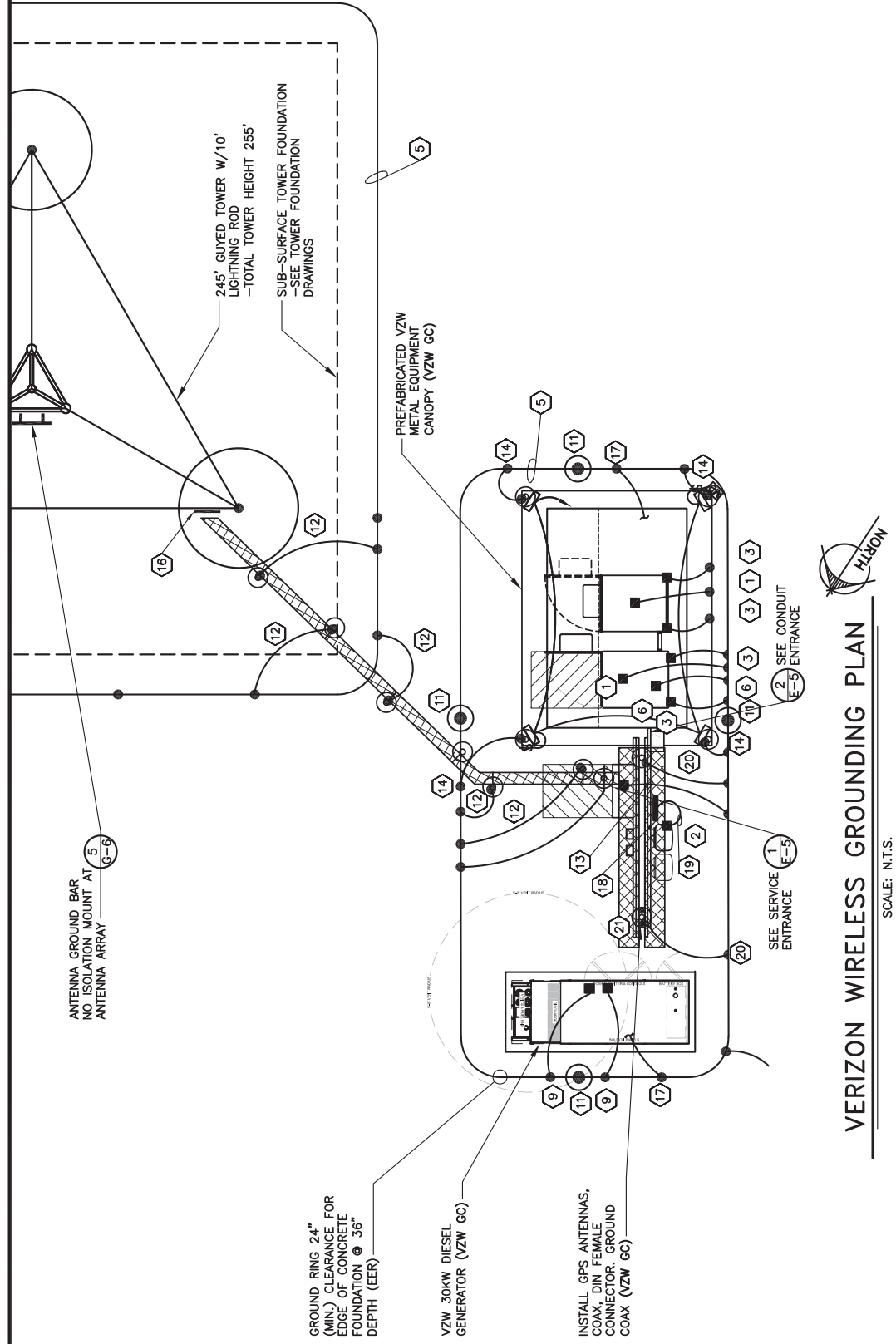
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**VERIZON WIRELESS
GROUNDING PLAN
AND NOTES**

SHEET NUMBER:
G-3
MK PRO & COMPANY 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 CEPSSG: VZW E.C. SHALL FURNISH & INSTALL THE THEFT DETERRENT 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 GND. TO THE POST. 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 ANTI-OXIDANT 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 POINT. 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 IBSSG: 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.

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 MEASURE TEST THE COUNTROUND 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 THE 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 MEASURE 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 THE TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, 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. GROUNDING 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 ALUMINUM 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.

LEGEND

BBG	BATTERY BAY GROUND
CEPSSG	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	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GES	GROUNDING ENCLOSURE GROUND
GSSG	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GRE	GATE GROUND
IBSSG	GPS ANTENNA MOUNT GROUND
ICE	ICE AND ROD ELECTRODE
IBSE	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
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UPPER GROUND (PIER FOUNDATION)
⊙	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL
⊠	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
 340 CASEY CREEK ROAD,
 LIBERTY, KY 42539
 CASEY COUNTY

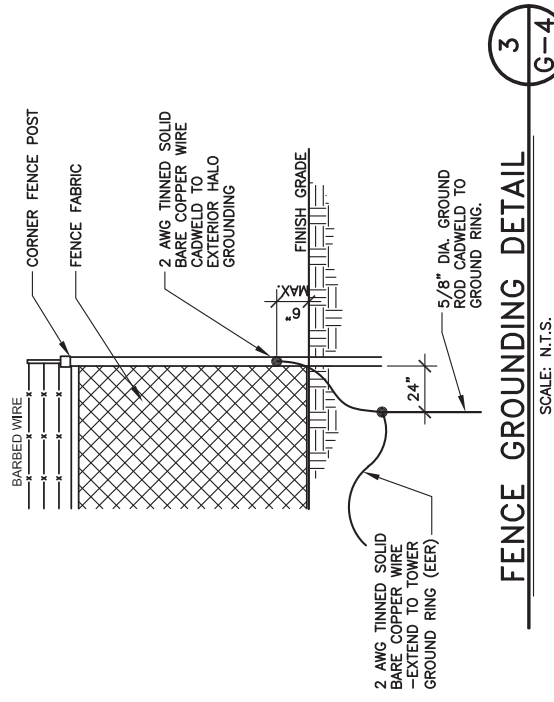
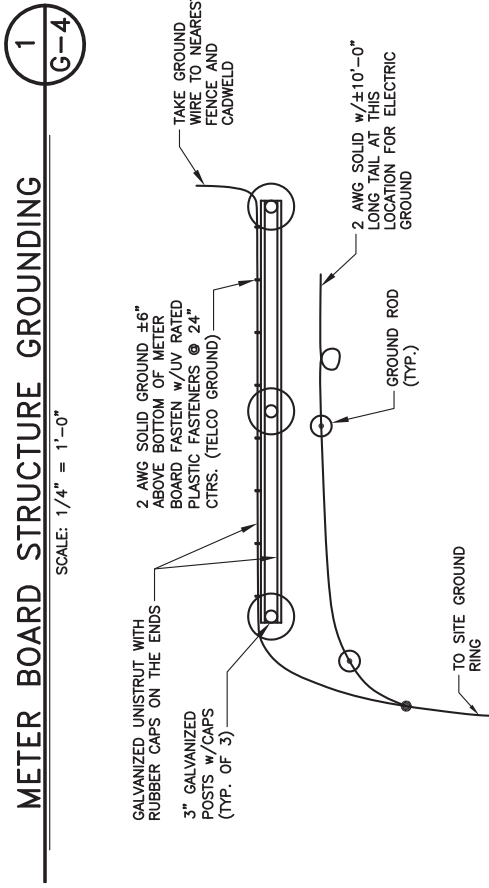
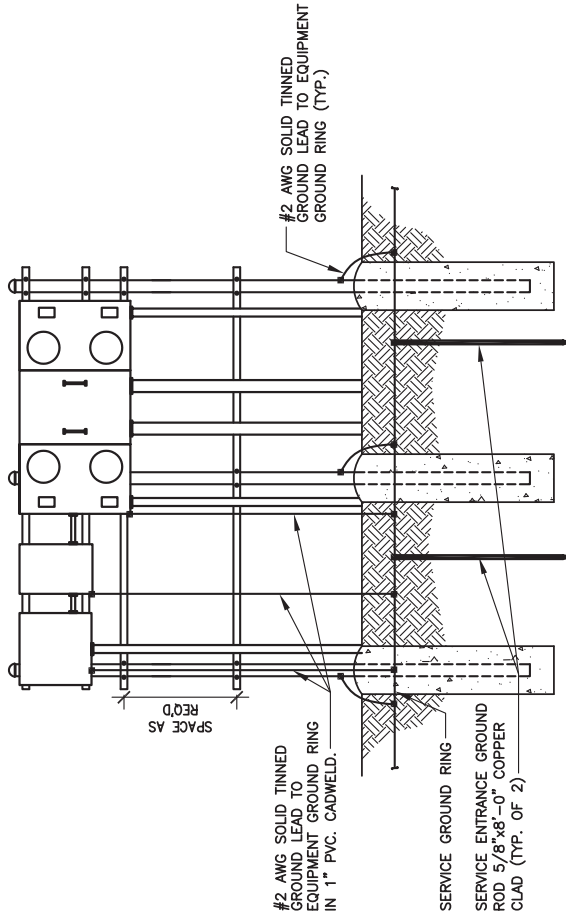
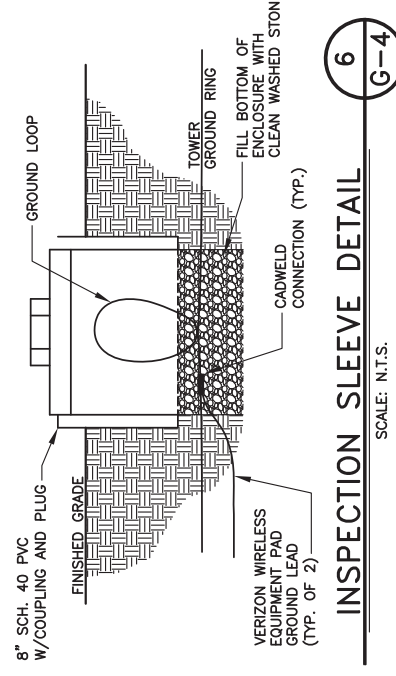
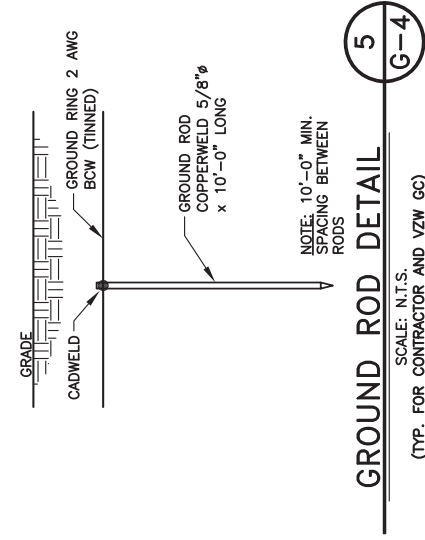
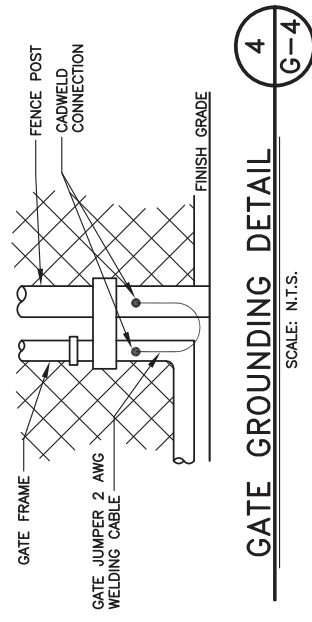
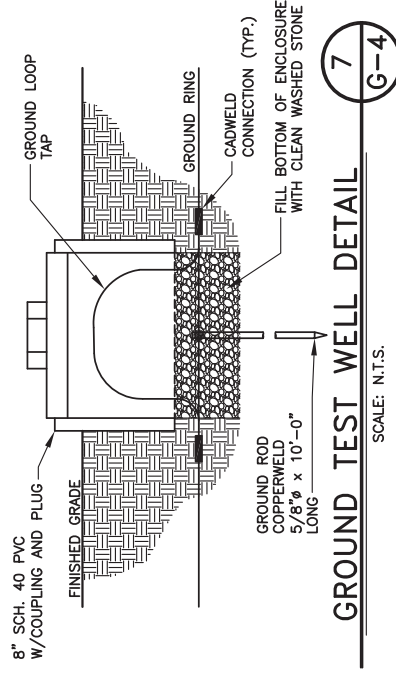
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
 DRAWN BY: RC
 CHECKED BY: PL
 DATE: 03.12.24

SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G-4
 MK PRO & CAMPI REV 3 FINAL 10/16/23



REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

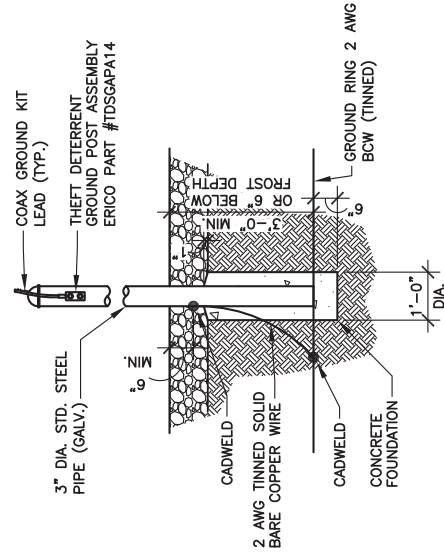
SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
GROUNDING DETAILS

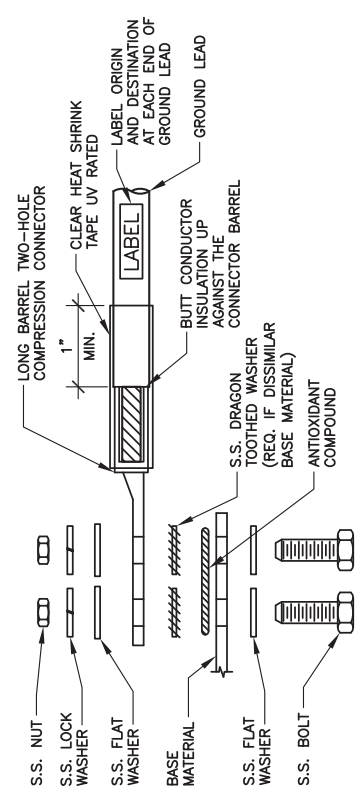
SHEET NUMBER:
G-5
MK PRO & CAMPY REV 3 FINAL 10/16/23



**THEFT DETERRENT POST MOUNT
GROUND DETAIL (CEPSG)**

1
G-5

SCALE: N.T.S.
(BY VZW GC)

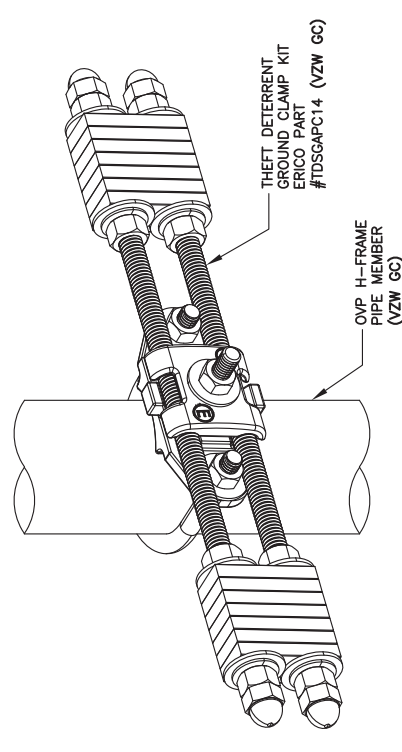


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE.
4. WHEN BONDED TO A GROUND BAR OR STEEL OBJECT, DISSIMILAR METALS; A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
5. IF 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

2
G-5

SCALE: N.T.S.



OVP GROUND ASSEMBLY (OGA)

SCALE: N.T.S.
(BY VZW GC)

3
G-5

REV.	DATE	DESCRIPTION
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SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

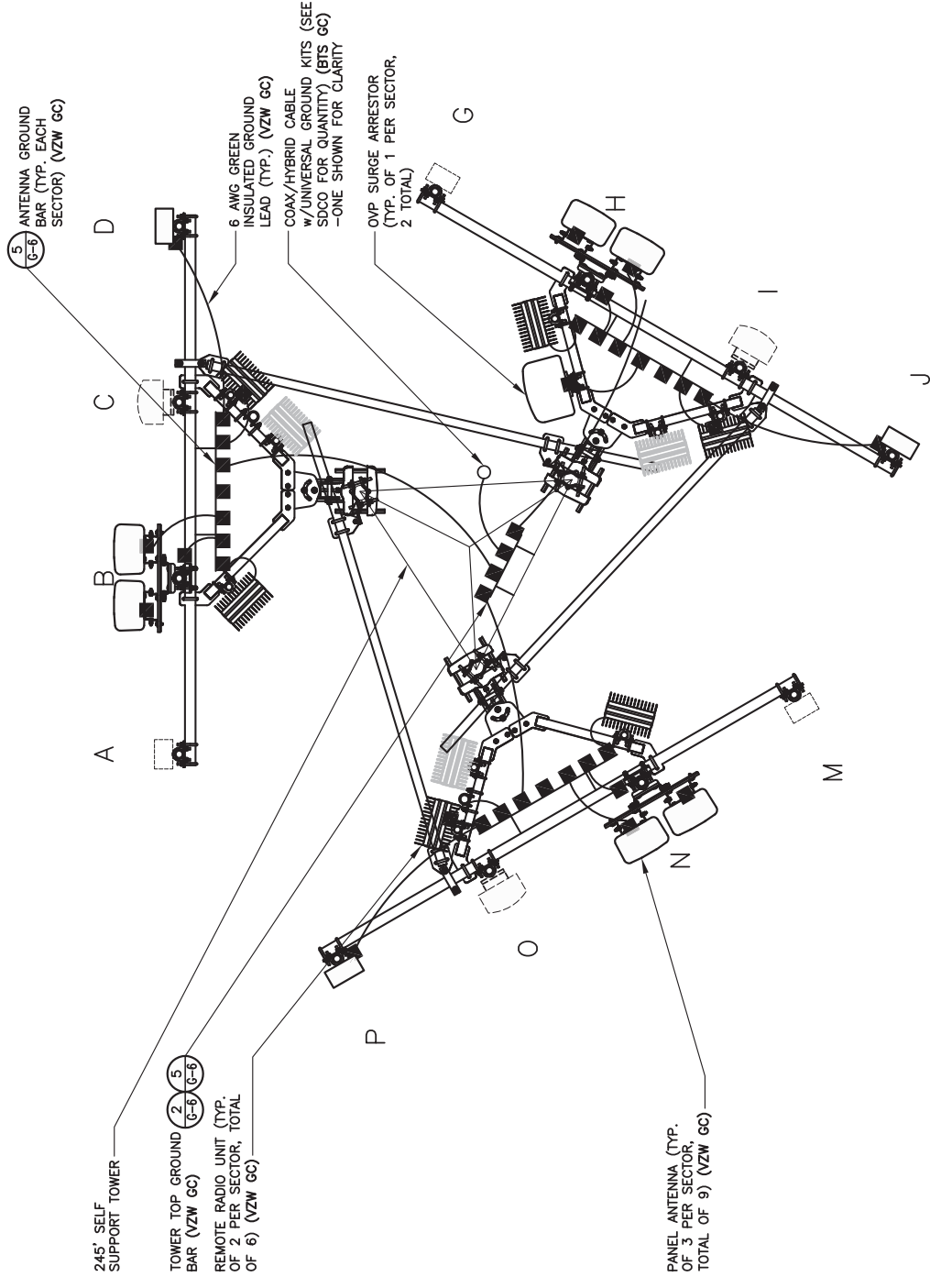
SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

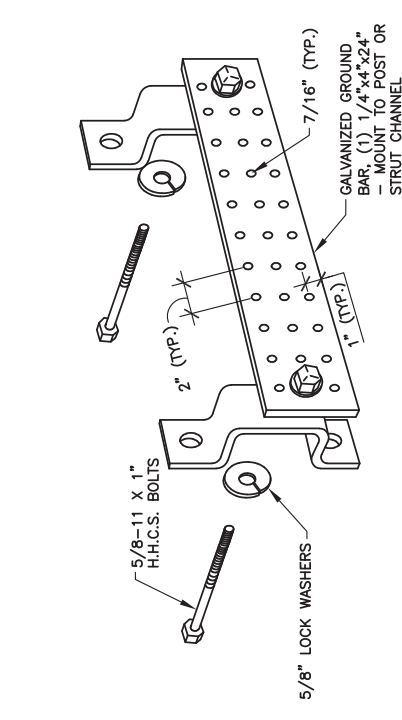
SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G-6

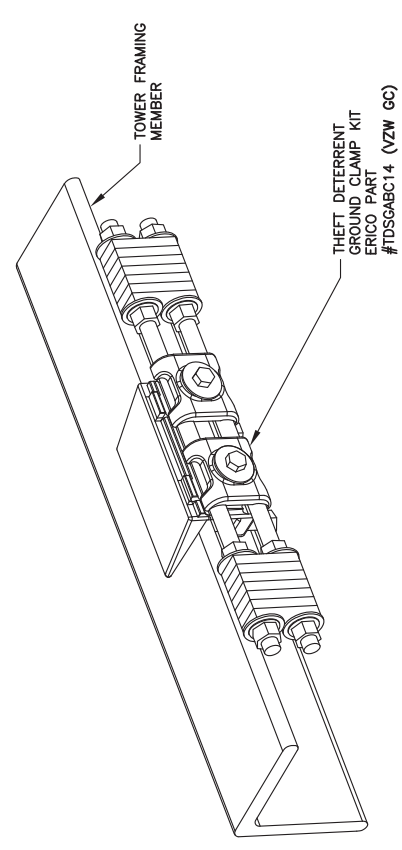
G-6
MK PRO & CANOPY REV 3 FINAL 10/16/23



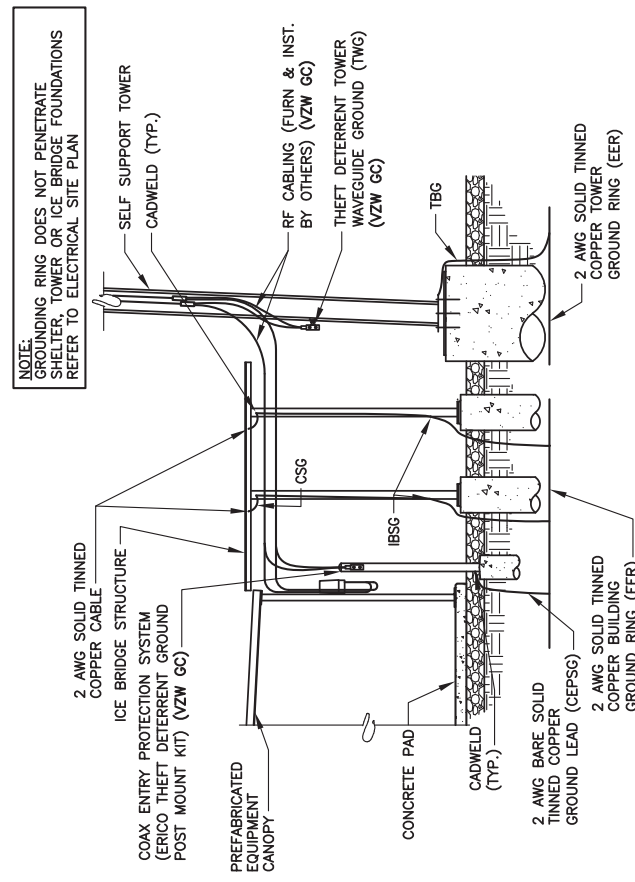
3
ANTENNA LEVEL GROUNDING PLAN
SCALE: N.T.S.



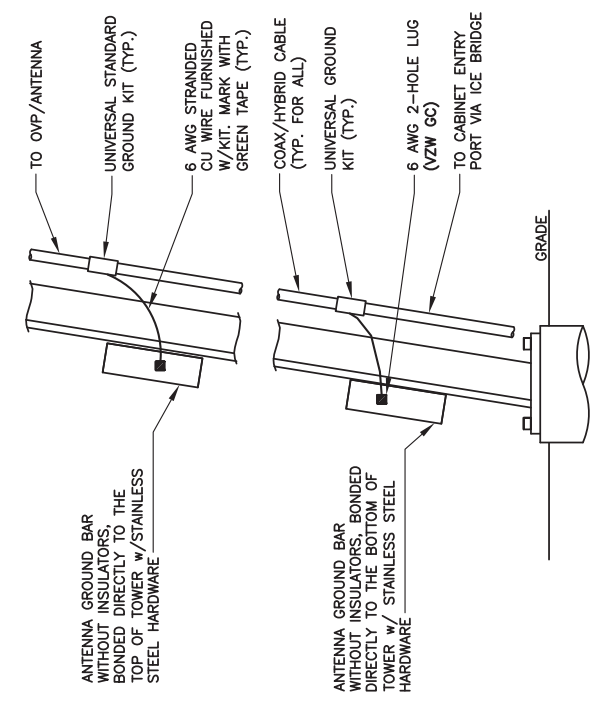
5
ANTENNA & TOWER TOP GROUND BAR
SCALE: N.T.S. (BY VZW GC)



4
TOWER BOTTOM GROUND ASSEMBLY
SCALE: N.T.S. (BY VZW GC)



1
INTERIOR/EXTERIOR GROUNDING DETAIL
SCALE: N.T.S.



2
ANTENNA CABLE GROUNDING INSTALLATION DETAIL
SCALE: N.T.S.

REV.	DATE	DESCRIPTION
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1	06/24/24	REVISED



CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947

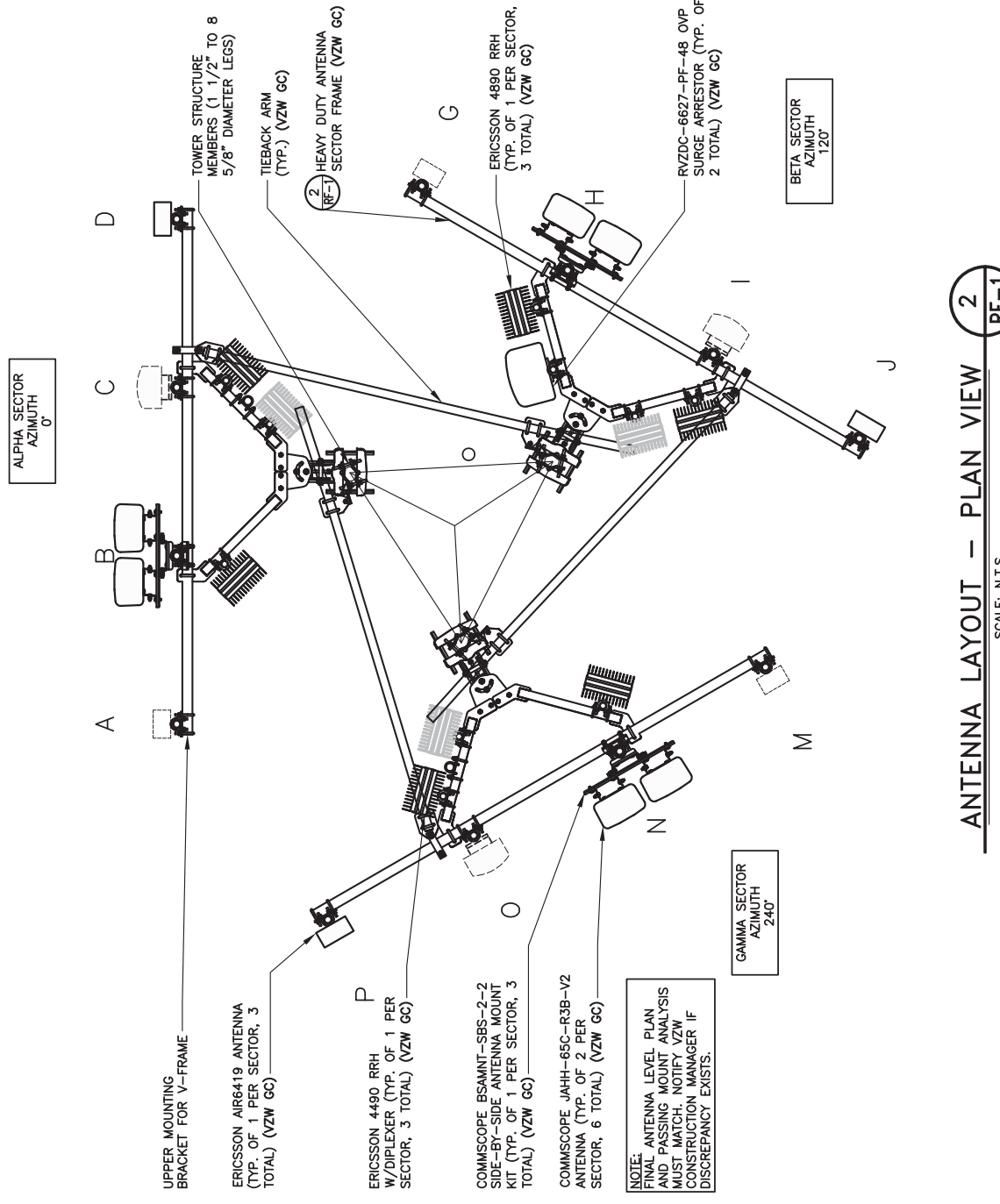
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
**ANTENNA PLAN AND
DETAILS (REFERENCE
ONLY)**

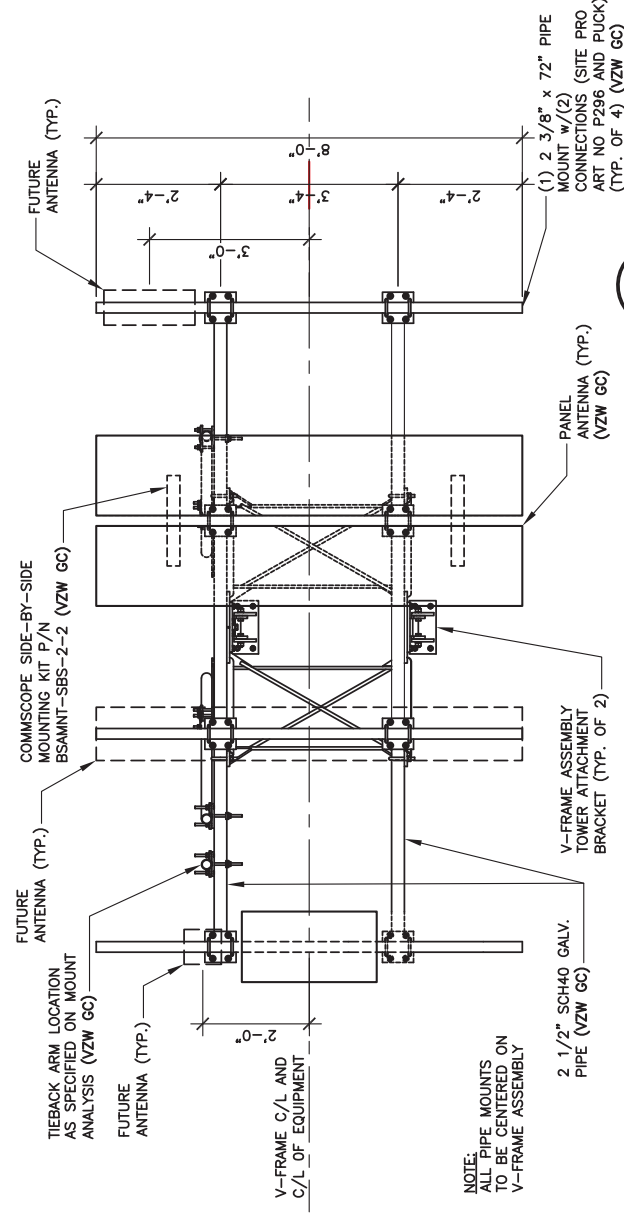
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RF-1

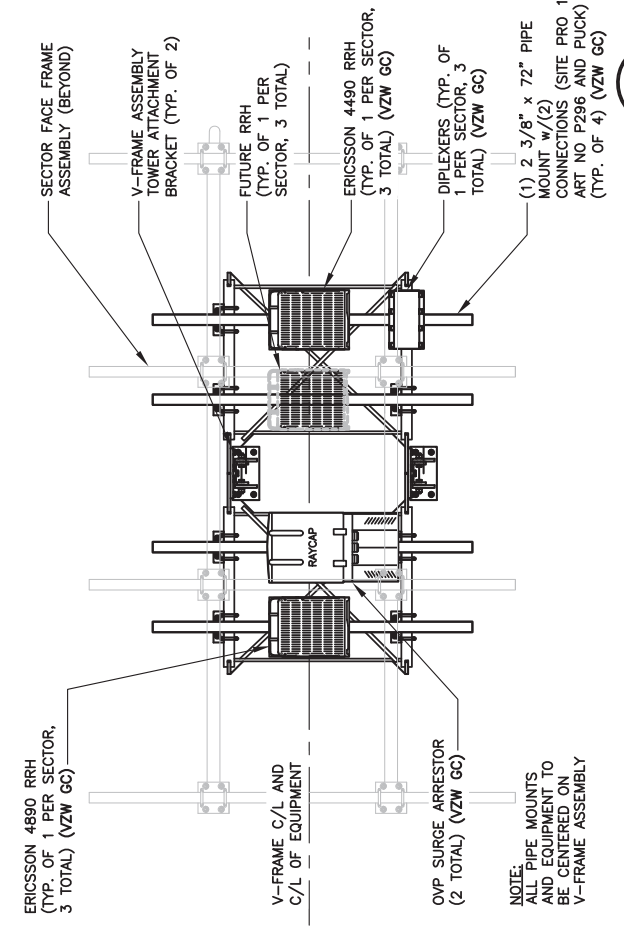
INK PRO & COMPANY REV 3 FINAL 10/16/23



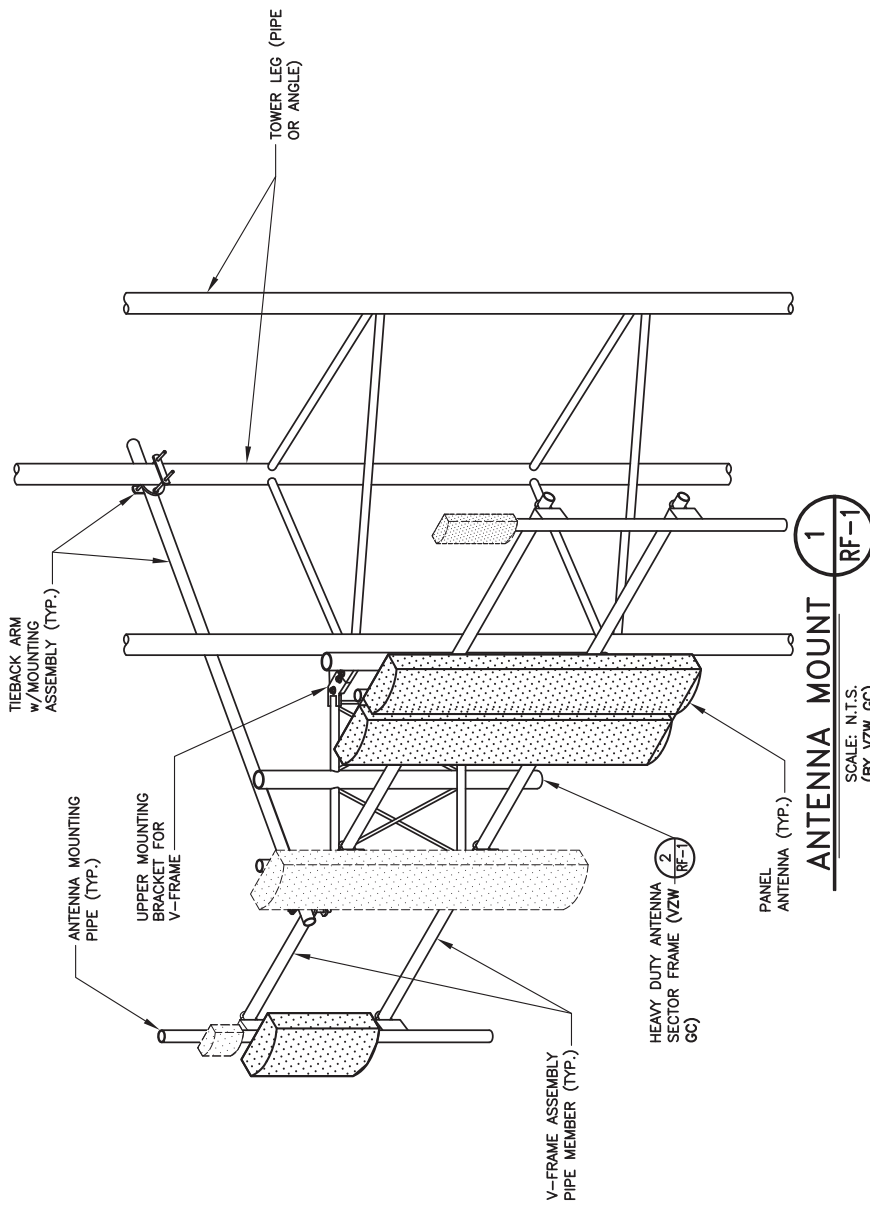
ANTENNA LAYOUT - PLAN VIEW
SCALE: N.T.S.
(BY VZW GC)



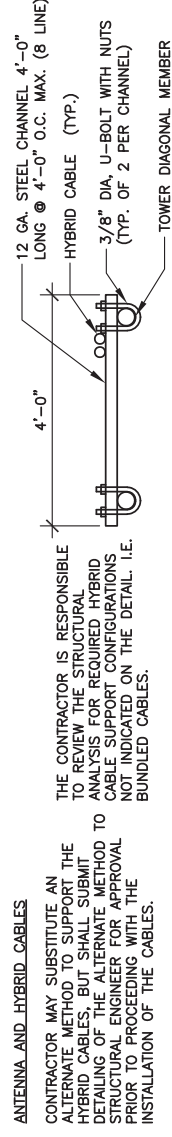
ANTENNA MOUNT - FRONT VIEW
SCALE: N.T.S.
(BY VZW GC)



ANTENNA MOUNT - REAR VIEW (FLATTENED)
SCALE: N.T.S.
(BY VZW GC)



ANTENNA MOUNT
SCALE: N.T.S.
(BY VZW GC)



HYBRID CABLE SUPPORT DETAIL

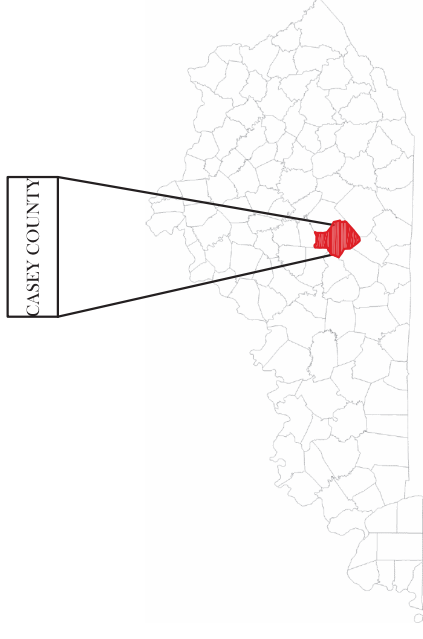
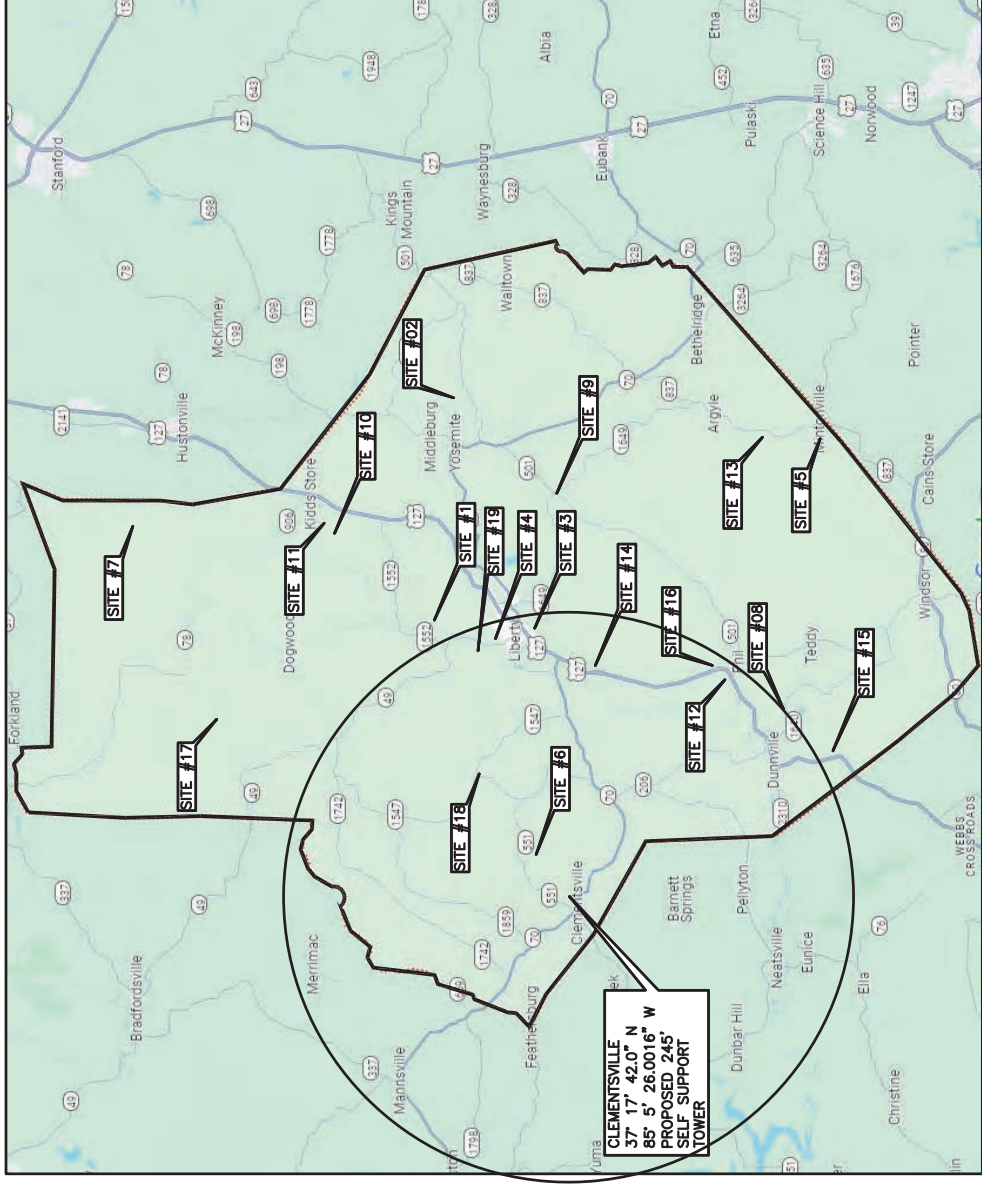
GENERAL NOTES:

- 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. 1) 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" OFF MOUNTING FRAMES WITH STAINLESS STEEL HANGERS.
- JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH STAINLESS STEEL HANGERS.

RURAL CELLULAR
CORP D/B/A



CITY OF LIBERTY,
CASEY COUNTY, KENTUCKY
VERIZON WIRELESS SITE
CLEMENTSVILLE
TOWER LOCATION EXHIBIT



MAP_NOT TO SCALE

KENTUCKY

SITE INFORMATION:

CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
PSC MAP

SHEET NUMBER:
PSC-1
INK PLO & CANOPY REV 3 FINAL 10/16/23



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (961) 968-8367



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

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



- SITE#1: FCC# 1042417, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC 37° 21' 23.0"N 084° 55' 13.0"W
- SITE#2: FCC# 1043074, GTE SOUTH INCORPORATED 37° 21' 27.0"N, 084° 47' 06.0"W
- SITE#3: FCC# 1043347, CROWN CASTLE SOUTH LLC 37° 18' 35.1"N, 084° 55' 42.3"W
- SITE#4: FCC# 1043976, TELECOMMUNICATIONS MANAGEMENT LLC D/B/A NEWWAVE COMMUNICATIONS 37° 19' 35.0"N, 084° 56' 17.0"W
- SITE#5: FCC# 1044043, KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA WKSO TV 37° 10' 03.0"N, 084° 49' 30.0"W
- SITE#6: FCC# 1044720, CNS MICROWAVE, LLC 37° 18' 36.0"N, 085° 03' 45.0"W
- SITE#7: FCC# 1044843, KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS 37° 31' 10.0N, 084° 52' 10.8"W
- SITE#8: FCC# 1232541, HEMPHILL CORPORATION 37° 11' 39.3"N, 084° 58' 48.8"W
- SITE#9: FCC# 1234122, EDUCATIONAL MEDIA FOUNDATION 37° 11' 24.3"N, 084° 52' 11.8"W
- SITE#10: FCC# 1234155, EAST KENTUCKY POWER COOPERATIVE, INC. 37° 17' 54.9"N, 084° 51' 11.5"W
- SITE#11: FCC# 1244845, COAIT LLC 37° 24' 08.4"N 084° 52' 12.5"W
- SITE#12: FCC# 1263764, SBA TOWERS III LLC 37° 13' 22.2"N 084° 57' 39.5"W
- SITE#13: FCC# 1264776, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC 37° 12' 15.8"N 084° 49' 13.1"W
- SITE#14: FCC# 1264914, CELLO PARTNERSHIP 37° 17' 03.1"N 084° 57' 12.1"W
- SITE#15: FCC# 1275314, CELLO PARTNERSHIP 37° 10' 31.0"N 085° 00'11.5"W
- SITE#16: FCC# 1310312, UNITI TOWERS 37° 13' 26.7"N 084° 57' 18.9"W
- SITE#17: FCC# 1312991, CITYSWITCH II, LLC 37° 27' 17.6"N 084° 59' 26.1"W
- SITE#18: FCC# 1313732, CTI TOWERS ASSETS II, LLC 37° 20' 08.6"N 085° 00' 58.0"W
- SITE#19: FCC# 1321933, CASEY, COUNTY OF, 37° 20' 07.6"N 084° 56' 32.4"W



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 33487
PHONE: (961) 968-5367



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

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION
1	06/24/24	REVISED



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

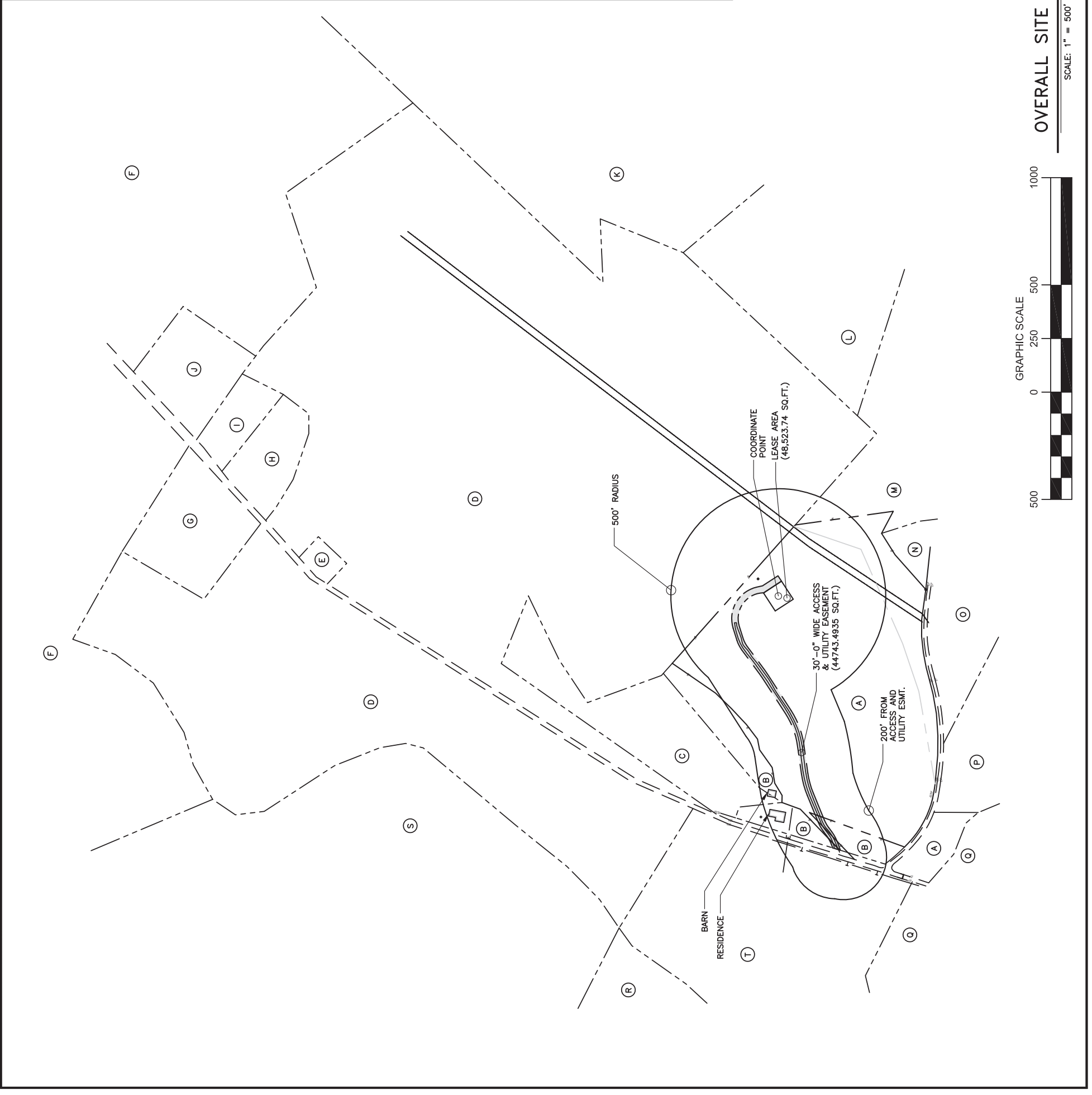
SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
PSC-2
INK PLO & COMPANY REV 3 FINAL 10/16/23

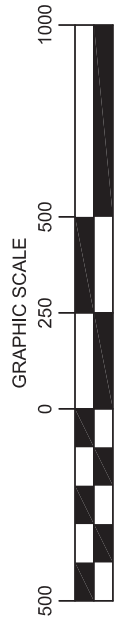
Parcel #	Owner Name	Parcel #	Owner Name
A. 013-03	MARK WOODRUM 1054 MURPHY WOLFORD RD, LIBERTY, KY 42539	L. 013-05	WETHINGTON, BOBBY 959 GUM LICK RD LIBERTY, 42539
B. 013-02	EDWIN BLAKE WESLEY / JENNY L WESLEY 352 CASEY CREEK RD LIBERTY, KY 42539-6138	M. 013-06	WETHINGTON, BEVERLY & BOBBY, & WETHINGTON, SHELA & WETHINGTON, SANDRA 5769 KY 551 LIBERTY, 42539
C. 013-02A	MARK WOODRUM & KIRSTEN ANNE 1054 MURPHY WOLFORD RD, LIBERTY, KY 42539	N. 013-04A	JAMES & MARY WETHINGTON 4348 WOODS CREEK RD, LIBERTY, KY 42539
D. 012-36D	MARK WOODRUM CASEY CREEK RD LIBERTY, KY 42539	O. 013-04	ANDREW & CARISSA, ALONZO 3233 WOODS CREEK RD, LIBERTY, KY 42539
E. 013-03	MARK WOODRUM 1054 MURPHY WOLFORD RD, LIBERTY, KY 42539	P. 103-04B	RICHARDSON, BRANDON & LETICIA 50 GABEHART ST, LIBERTY, KY 42539
F. 012-30	WOODRUM, VIVA & CLEMENT 1175 CASY CREEK RD, LIBERTY, KY 42539	Q. 013-18	SANDRA ESTATE, WOLFORD 12993 W KY 70 LIBERT, KY 42539
G. 012-36C	WETHINGTON, JOSEPH GARY & BELIN 909 CASEY CREEK LIBERTY, KY 42539	R. 013-01A	SANDRA ESTATE WOLFORD 12993 W KY 70, LIBERTY, KY 42539
H. 012-37	DERRINGER, FORGER 892 CASEY CREEK RD, LIBERTY, KY 42539	S. 012-35	BRAIN, WOODRUM & VANESSA 133 RAYMOND NOEL RD, LIBERTY, KY 42539
I. 012-38	CLEMENTS, JODY & FAYE 960 CASEY CREEK RD, LIBERTY, KY 42539	T. 012-36B	CLEMENT WOODRUM 1175 CASEY CREEK ROAD LIBERTY, KY 42539
J. 012-41	WOODRUM, CLEMENT & VIVA 1175 CASEY CREEK RD LIBERTY, KY 42539		
K. 012-42	HALL, ODA & KATHRYN ESTATE 582 HAYES HOLLOW RD, LIBERTY, KY 42539		



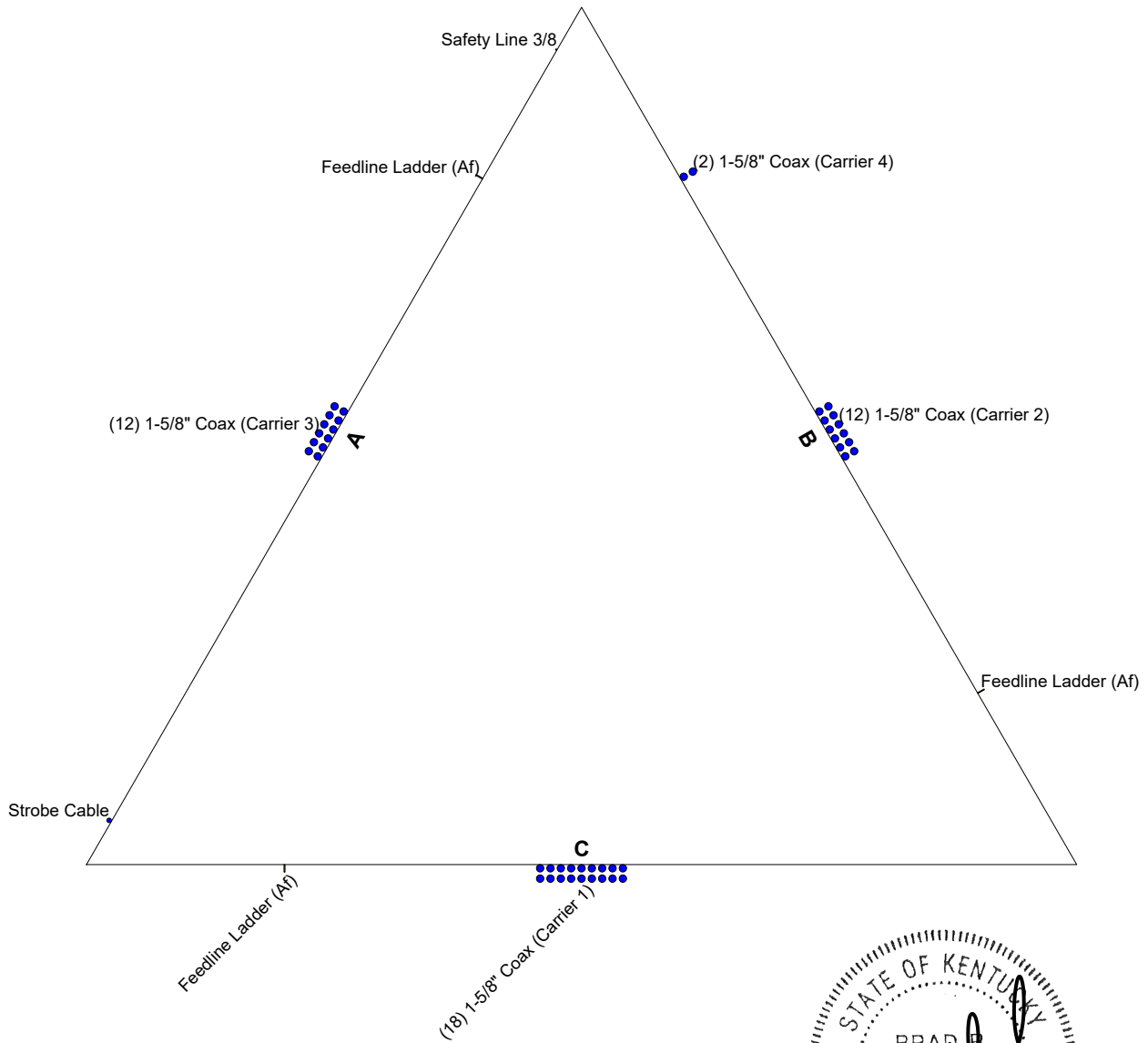
* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS. ISSUED BY A REPRESENTATIVE FROM ROCKCASTLE COUNTY TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.

OVERALL SITE PLAN

SCALE: 1" = 500'



Feed Line Plan



B+T Group
 1717 S Boulder Ave, Suite 300
 Tulsa, OK 74119
 Phone: (918) 587-4630
 FAX: (918) 295-0265

Job: ATS #A989 - Clementsville (Site# US-KY-519)		
Project: 245' SST/37.294981, -85.090556		
Client: Vertical Bridge	Drawn by: BSevier	App'd:
Code: TIA-222-H	Date: 05/28/24	Scale: NTS
Path:	Dwg No. E-7	

C:\Users\bsevier\OneDrive - B+T Group\Desktop\Inx Files\0524-072_245SST_Clementsville.en



1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630



4020 TULL AVE. MUSKOGEE, OK 74403

REV	DATE	DESCRIPTION
0	05/28/24	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTIONS OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

PROJECT INFORMATION:

PROJECT NO: 171104.001.01.0001
SITE NAME: CLEMENTSVILLE
SITE NO: A989
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: BRANDON SEVIER, P.E.
CHECKED BY:

SHEET TITLE:

DRILLED PIER FOUNDATION

SHEET NUMBER: **SST-DPF**

REVISION: **0**

NOTES:

- REINFORCEMENT STEEL SHALL CONFIRM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
- REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
GEOTECHNICAL PROPERTIES BY: US-KY-5198
PROJECT NUMBER: GEO24-21559-08
DATE: 5/8/24
- THIS FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
- TOTAL CONCRETE VOLUME FOR ALL (3) PIERS IN CUBIC YARDS: 43.98
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14
- ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"x12" OR (3) 4"x8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"x12" OR (6) 4"x8" CYLINDERS PER BATCH REQUIRED.
- SUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
- BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
- VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

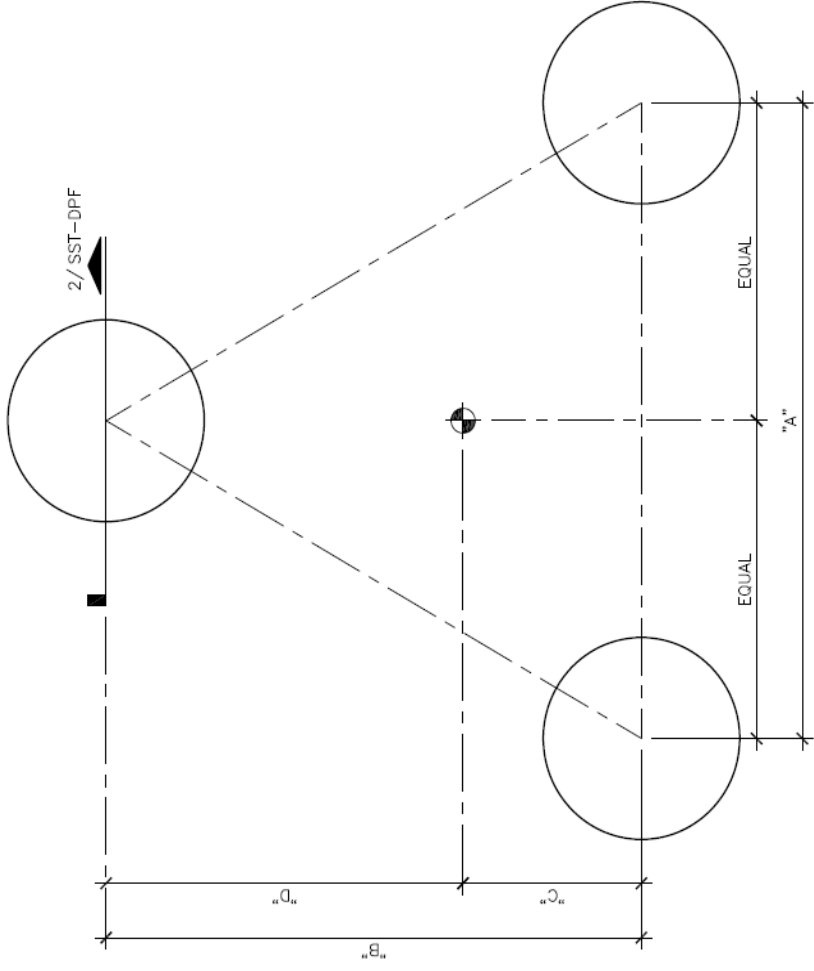
STIPULATION FOR REUSE:

- THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.

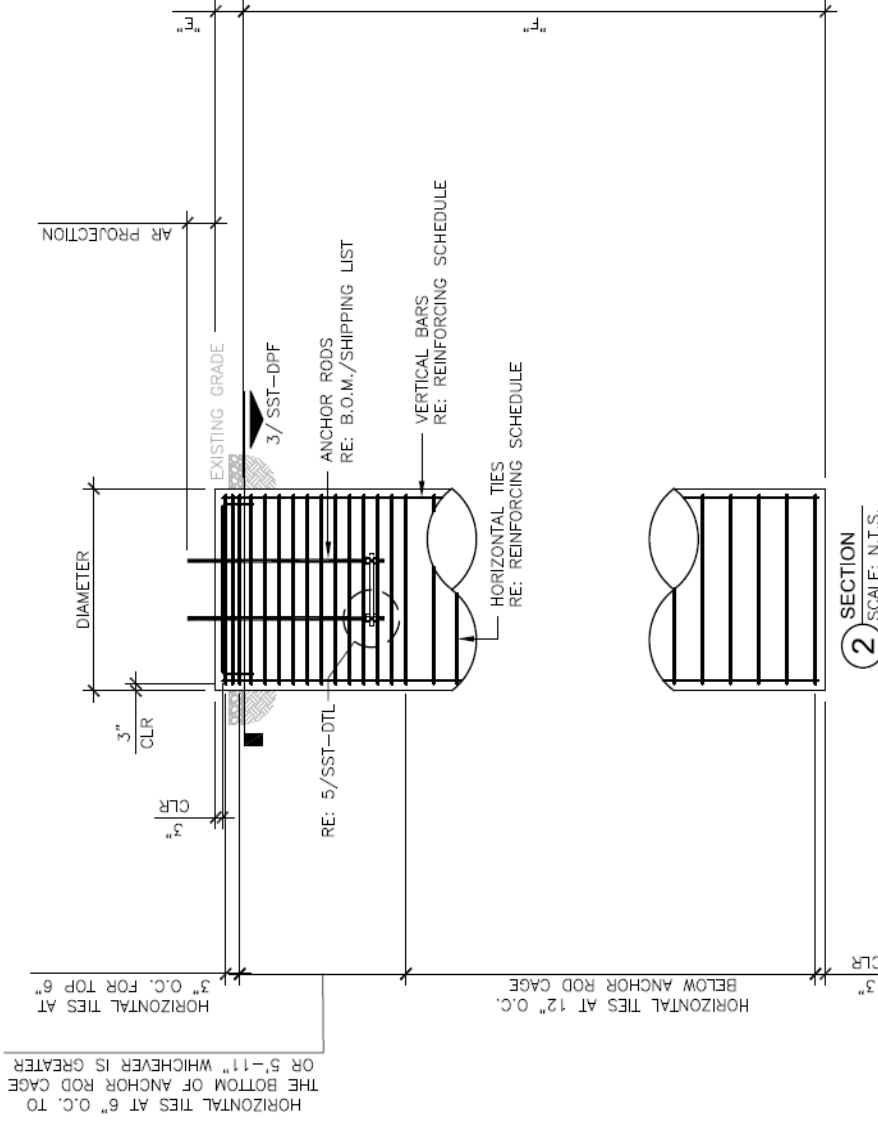
DIMENSIONING SCHEDULE	
A	22' 6"
B	19' 5-13/16"
C	6' 5-15/16"
D	12' 11-7/8"
E	0' 6"
F	31' 0"
MIN. OVERLAP "G"	
DIAMETER	
AR PROJECTION	
10 IN.	

REINFORCING SCHEDULE			TOTAL QTY
VERTICAL BARS	# 8		36
HORIZONTAL TIES	# 4		117
U-BAR HORIZONTAL	# 4		12

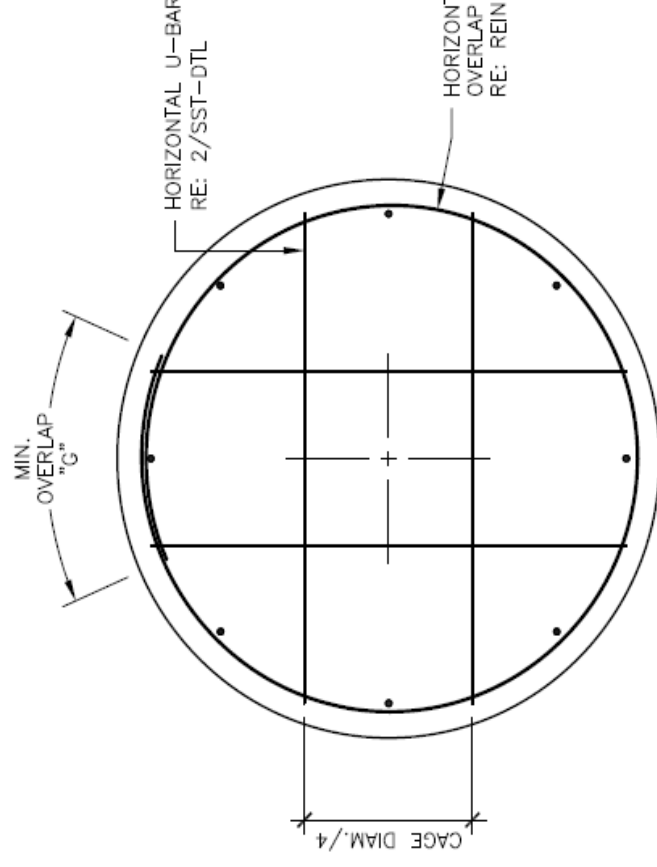
BASE REACTIONS: (FACTORED LOADS)		
GLOBAL REACTIONS		
MOMENT	9171	KIP-FT
AXIAL	81	KIPS
SHEAR	60	KIPS
REACTIONS PER LEG		
COMPRESSION AXIAL	498	KIPS
COMPRESSION SHEAR	36	KIPS
UPLIFT AXIAL	422	KIPS
UPLIFT SHEAR	32	KIPS



1 PLAN
SCALE: N.T.S.



2 SECTION
SCALE: N.T.S.



3 SECTION
SCALE: N.T.S.

HORIZONTAL TIES, ALTERNATING OVERLAP AT EACH LAYER 90 DEGREES
RE: REINFORCING SCHEDULE



1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630



4020 TULL AVE. MUSKOGEE, OK 74403

REV	DATE	DESCRIPTION
0	05/28/24	ISSUED FOR CONSTRUCTION

ISSUED FOR:
COA: 4011
EXPIRES: 12/31/2024



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTIONS OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

PROJECT INFORMATION:
PROJECT NO: 171104.001.01.0001
SITE NAME: CLEMENTSVILLE
SITE NO: A989
CLIENT NAME: ARCOSA TELECOM STRUCTURES
DRAWN BY: BRANDON SEVIER, P.E.
CHECKED BY:

SHEET TITLE:
UNIT BASE FOUNDATION

SHEET NUMBER: **SST-UBF**
REVISION: **0**

- NOTES:**
- REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
 - REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
 - THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
GEOTECHNICAL PROPERTIES BY: US-KY-5198
PROJECT NUMBER: GEO24-21559-08
DATE: 5/8/24
 - THIS FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
 - CONCRETE VOLUME IN CUBIC YARDS: 77.03
 - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
 - CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
 - ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"x12" OR (3) 4"x8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"x12" OR (6) 4"x8" CYLINDERS PER BATCH REQUIRED.
 - SUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
 - BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOILS SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
 - VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.
- STIPULATION FOR REUSE:**
THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.

BASE REACTIONS: (FACTORED LOADS)

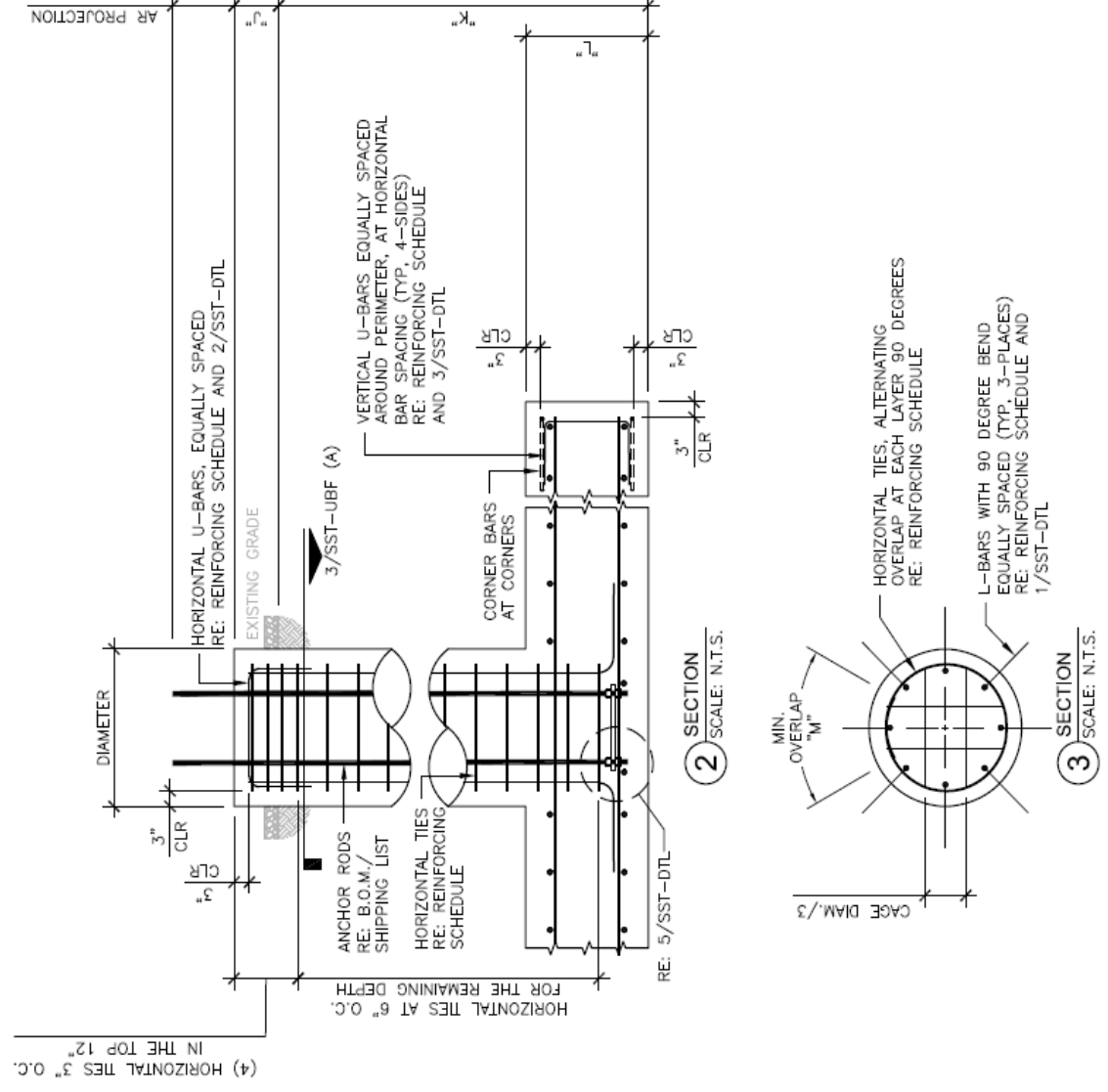
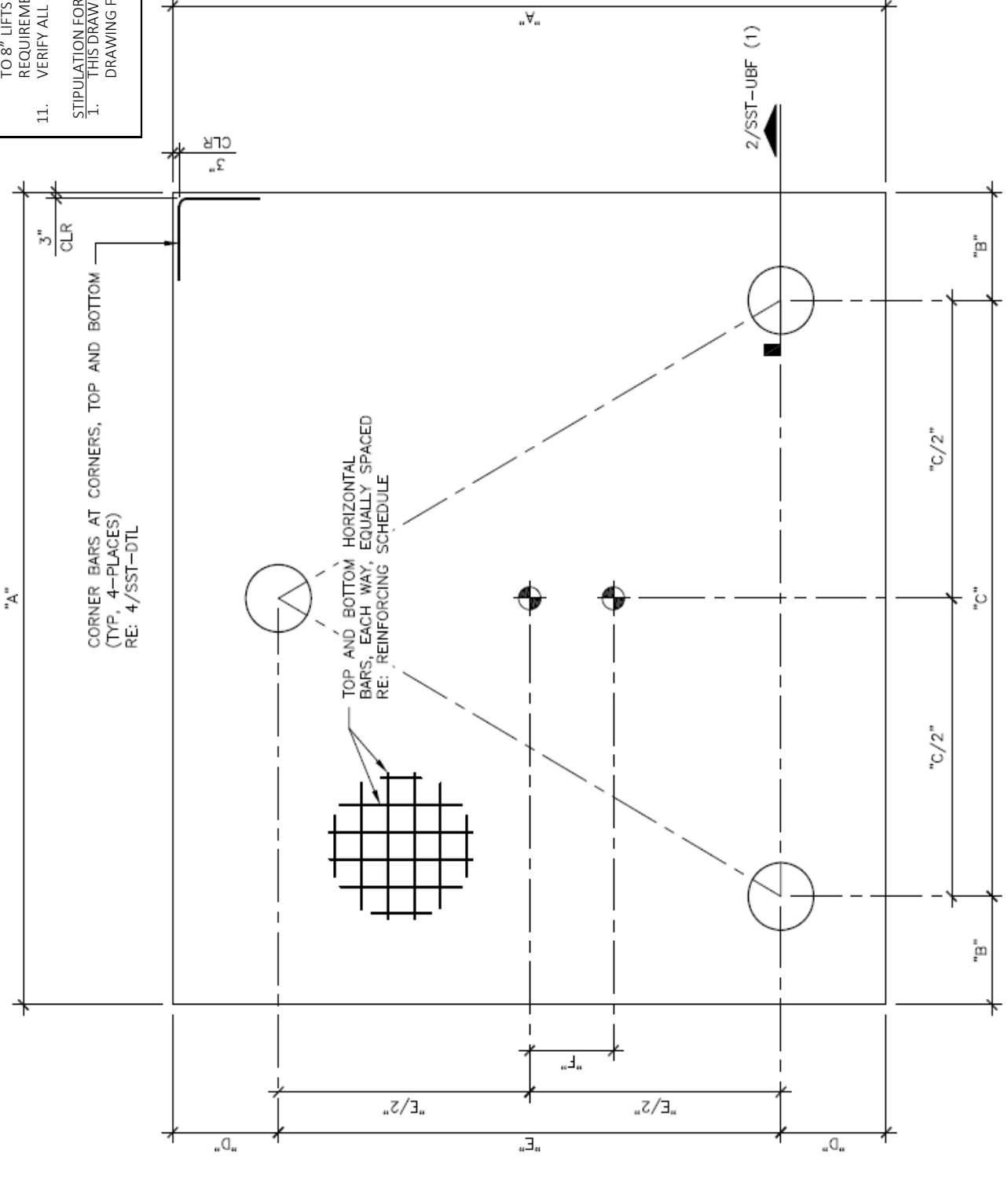
GLOBAL REACTIONS	
MOMENT	9171 KIP-FT
AXIAL	81 KIPS
SHEAR	60 KIPS
REACTIONS PER LEG	
COMPRESSION AXIAL	498 KIPS
COMPRESSION SHEAR	36 KIPS
UPLIFT AXIAL	422 KIPS
UPLIFT SHEAR	32 KIPS

REINFORCING SCHEDULE

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	# 8	36
HORIZONTAL TIES	# 4	42
HORIZONTAL U-BAR (PEDESTAL)	# 4	12
TOP HORIZONTAL BARS	# 8	74
BOTTOM HORIZONTAL BARS	# 8	74
CORNER BARS	# 4	8
VERTICAL U-BARS (PAD)	# 4	148

DIMENSIONING SCHEDULE

A	31'-6"
B	4'-6"
C	22'-6"
D	6'-1/16"
E	19'-5-13/16"
F	3'-3"
J	0'-6"
K	6'-0"
L	2'-0"
MIN OVERLAP "M"	2'-3"
DIAMETER	3'-0"
AR PROJECTION	10 IN.





1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630



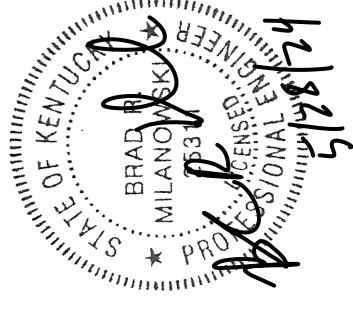
4020 TULL AVE. MUSKOGEE, OK 74403

ISSUED FOR:

REV	DATE	DESCRIPTION
0	05/28/24	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2024



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PROJECT INFORMATION:

PROJECT NO: 171104.001.01.0001
SITE NAME: CLEMENTSVILLE
SITE NO: A989
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: BRANDON SEVIER, P.E.
CHECKED BY:

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER:

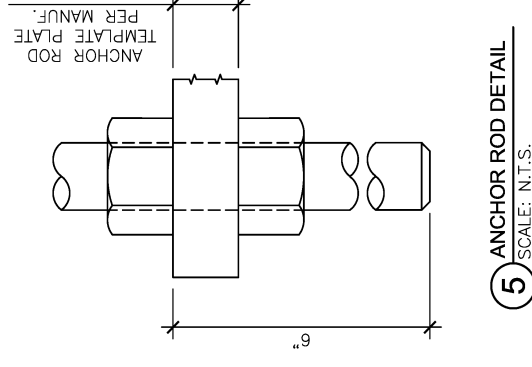
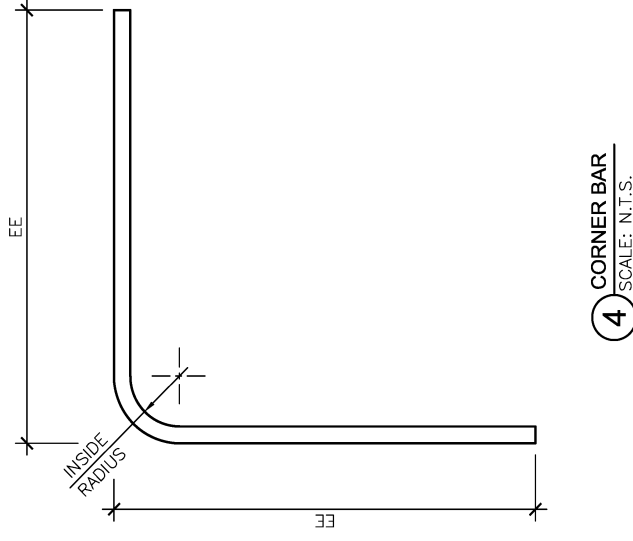
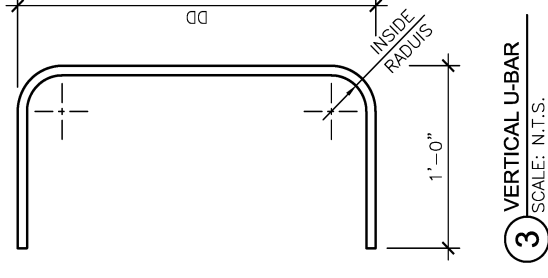
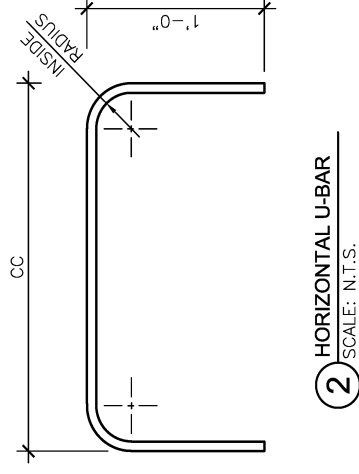
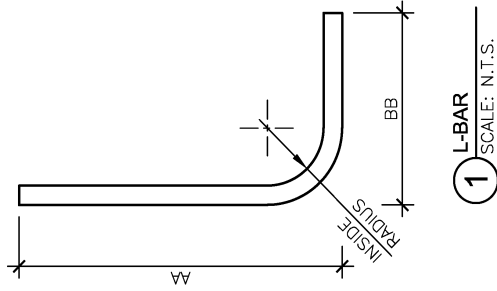
SST-DTL

REVISION:

0

DIMENSIONING SCHEDULE	
AA*	5' 10"
BB	1' 3"
CC*	VARIES
DD*	1' 6"
EE	3' 0"

*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



Drilled Pier Foundation

BT # :	171104.001.01.0001
Site Name:	Clements ville
Site Number:	A989
TIA-222 Revision:	H
Tower Type:	Self Support

Applied Loads	
Comp.	Uplift
Moment (kip-ft)	
Axial Force (kips)	498
Shear Force (kips)	36
	422
	32

Material Properties	
Concrete Strength, f'c:	4 ksi
Rebar Strength, Fy:	60 ksi
Tie Yield Strength, Fyt:	40 ksi

Pier Design Data	
Depth	31 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
<i>From 0.5' above grade to 31' below grade</i>	
Pier Diameter	4 ft
Rebar Quantity	12
Rebar Size	8
Clear Cover to Ties	3 in
Tie Size	4
Tie Spacing	12 in

[Rebar & Pier Options](#)

[Embedded Pole Inputs](#)

[Belled Pier Inputs](#)

Analysis Results

Soil Lateral Check		Compression	Uplift
D _{v=0} (ft from TOC)	16.08	16.08	16.08
Soil Safety Factor	18.73	18.73	21.07
Max Moment (kip-ft)	348.97	348.97	310.19
Rating	7.1%	7.1%	6.3%

Soil Vertical Check		Compression	Uplift
Skin Friction (kips)	383.59	383.59	383.59
End Bearing (kips)	369.64	369.64	-
Weight of Concrete (kips)	71.25	71.25	53.44
Total Capacity (kips)	753.23	753.23	437.03
Axial (kips)	569.25	569.25	422.00
Rating	75.6%	75.6%	96.6%

Reinforced Concrete Flexure		Compression	Uplift
Critical Depth (ft from TOC)	16.35	16.35	9.89
Critical Moment (kip-ft)	348.91	348.91	271.15
Critical Moment Capacity	1397.24	1397.24	346.11
Rating	25.0%	25.0%	78.3%

Reinforced Concrete Shear		Compression	Uplift
Critical Depth (ft from TOC)	24.21	24.21	24.21
Critical Shear (kip)	49.83	49.83	44.29
Critical Shear Capacity	342.44	342.44	161.88
Rating	14.6%	14.6%	27.4%

Structural Foundation Rating	78.3%
Soil Interaction Rating	96.6%

Soil Profile

# of Layers	6
-------------	---

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Net Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3	3	110	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3	8	5	120	150	1.4	1.4	0.770	0.770	0.76	0.76			Cohesive
3	8	13	5	120	150	2.4	2.4	1.320	1.320	1.32	1.32			Cohesive
4	13	17.5	4.5	120	150	0.8	0.8	0.440	0.440	0.43	0.43			Cohesive
5	17.5	23	5.5	140	150	4.5	4.5	2.195	2.195	2.19	2.19			Cohesive
6	23	31	8	140	150	4	4	2.045	2.045	2.04	2.04	35.26		Cohesive

Check Limitation	
Apply TIA-222-H Section 15.5:	<input type="checkbox"/>
	N/A

Design Options	
Input Effective Depths (else Actual):	<input type="checkbox"/>
Consider non-tapered moment capacity:	<input type="checkbox"/>
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>
Override Critical Depth:	<input type="checkbox"/>

[Go to Soil Calculations](#)

SST Unit Base Foundation

Project #: 171104.001.01.000
 Site Name: Clementsville
 Site #: A989

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Tower Centroid Offset?:	<input checked="" type="checkbox"/>
Block Foundation?:	<input type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions			
Global Moment, M :	9171	ft-kips	
Global Axial, P :	81	kips	
Global Shear, V :	60	kips	
Leg Compression, P_{comp} :	498	kips	
Leg Comp. Shear, V_{u,comp} :	36	kips	
Leg Uplift, P_{uplift} :	422	kips	
Leg Uplift. Shear, V_{u,uplift} :	32	kips	
Tower Height, H :	245	ft	
Base Face Width, BW :	22.5	ft	
BP Dist. Above Fdn, bp_{dist} :	3	in	

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
<i>Lateral (Sliding) (kips)</i>	279.42	60.00	21.5%	Pass
<i>Bearing Pressure (ksf)</i>	5.00	3.99	79.9%	Pass
<i>Overturning (kip*ft)</i>	10457.83	9815.13	93.9%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	951.91	162.00	17.0%	Pass
<i>Pier Flexure (Tension) (kip*ft)</i>	173.61	144.00	82.9%	Pass
<i>Pier Compression (kip)</i>	4499.01	503.73	11.2%	Pass
<i>Pad Flexure (kip*ft)</i>	2475.19	2259.37	91.3%	Pass
<i>Pad Shear - 1-way (kips)</i>	699.27	429.23	61.4%	Pass
<i>Pad Shear - Comp 2-way (ksi)</i>	0.190	0.152	80.2%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	1402.57	97.20	6.9%	Pass
<i>Pad Shear - Tension 2-way (ksi)</i>	0.190	0.147	77.4%	Pass
<i>Flexural 2-way (Tension) (kip*ft)</i>	1402.57	86.40	6.2%	Pass

Pier Properties			
Pier Shape:	Circular		
Pier Diameter, dpier :	3.0	ft	
Ext. Above Grade, E :	0.50	ft	
Pier Rebar Size, Sc :	8		
Pier Rebar Quantity, mc :	12		
Pier Tie/Spiral Size, St :	4		
Pier Tie/Spiral Quantity, mt :	14		
Pier Reinforcement Type:	Tie		
Pier Clear Cover, cc_{pier} :	3	in	

Structural Rating:	91.3%
Soil Rating:	93.9%

Pad Properties			
Depth, D :	6.00	ft	
Pad Width, W₁ :	31.50	ft	
Pad Thickness, T :	2.00	ft	
Pad Rebar Size (Bottom dir. 2), Sp₂ :	8		
Pad Rebar Quantity (Bottom dir. 2), mp₂ :	37		
Pad Clear Cover, cc_{pad} :	3	in	

Material Properties			
Rebar Grade, Fy :	60	ksi	
Concrete Compressive Strength, F'c :	4	ksi	
Dry Concrete Density, δc :	150	pcf	

Soil Properties			
Total Soil Unit Weight, γ :	110	pcf	
Ultimate Net Bearing, Qnet :	6.000	ksf	
Cohesion, Cu :		ksf	
Friction Angle, φ :	30	degrees	
SPT Blow Count, N_{blows} :			
Base Friction, μ :	0.35		
Neglected Depth, N :	2.5	ft	
Foundation Bearing on Rock?	No		
Groundwater Depth, gw :	N/A	ft	

<- Toggle between Gross and Net

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #A989 - Clementsville (Site# US-KY-5198)	Page 1 of 32
	Project 245' SST/37.294981, -85.090556	Date 17:10:55 05/28/24
	Client Vertical Bridge	Designed by BSevier

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 245.000 ft above the ground line.

The base of the tower is set at an elevation of 0.000 ft above the ground line.

The face width of the tower is 4.125 ft at the top and 22.500 ft at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Casey County, Kentucky.

Tower base elevation above sea level: 985.000 ft.

Basic wind speed of 105 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 1.500 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

A wind speed of 30 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity..

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

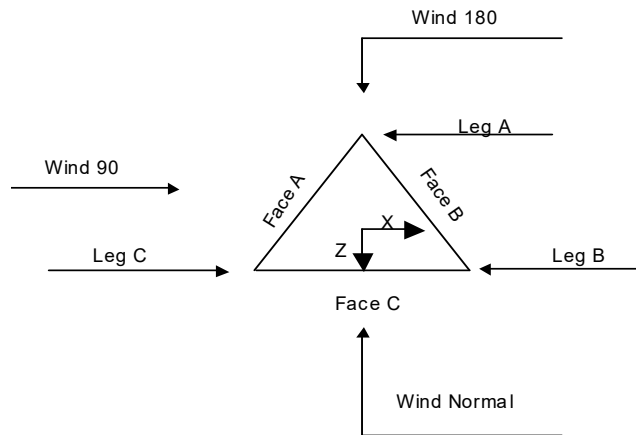
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric Distribute Leg Loads As Uniform | <ul style="list-style-type: none"> Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retention Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurtenances Alternative Appurt. EPA Calculation Autocalc Torque Arm Areas Add IBC .6D+W Combination √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs Use ASCE 10 X-Brace Ly Rules | <ul style="list-style-type: none"> √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="background-color: #e0e0e0; text-align: center; padding: 2px; margin: 5px 0;">Poles</div> <ul style="list-style-type: none"> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|---|---|--|

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #A989 - Clementsville (Site# US-KY-5198)	Page 2 of 32
	Project 245' SST/37.294981, -85.090556	Date 17:10:55 05/28/24
	Client Vertical Bridge	Designed by BSevier



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	245.000-235.000			4.125	1	10.000
T2	235.000-220.000			4.875	1	15.000
T3	220.000-200.000			6.000	1	20.000
T4	200.000-180.000			7.500	1	20.000
T5	180.000-160.000			9.000	1	20.000
T6	160.000-140.000			10.500	1	20.000
T7	140.000-120.000			12.000	1	20.000
T8	120.000-100.000			13.500	1	20.000
T9	100.000-80.000			15.000	1	20.000
T10	80.000-60.000			16.500	1	20.000
T11	60.000-40.000			18.000	1	20.000
T12	40.000-20.000			19.500	1	20.000
T13	20.000-0.000			21.000	1	20.000

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	245.000-235.000	4.500	X Brace	No	No	6.000	6.000
T2	235.000-220.000	4.667	X Brace	No	No	6.000	6.000

<p>tnxTower</p> <p>B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job	Page
	Project	Date
	Client	Designed by
	ATS #A989 - Clementsville (Site# US-KY-5198)	3 of 32
	245' SST/37.294981, -85.090556	17:10:55 05/28/24
	Vertical Bridge	BSevier

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T3	220.000-200.000	4.750	X Brace	No	No	6.000	6.000
T4	200.000-180.000	4.750	X Brace	No	No	6.000	6.000
T5	180.000-160.000	4.750	X Brace	No	No	6.000	6.000
T6	160.000-140.000	4.750	X Brace	No	No	6.000	6.000
T7	140.000-120.000	4.750	X Brace	No	No	6.000	6.000
T8	120.000-100.000	4.750	X Brace	No	No	6.000	6.000
T9	100.000-80.000	4.750	X Brace	No	No	6.000	6.000
T10	80.000-60.000	4.750	X Brace	No	No	6.000	6.000
T11	60.000-40.000	4.750	X Brace	No	No	6.000	6.000
T12	40.000-20.000	4.750	Double K	No	Yes	6.000	6.000
T13	20.000-0.000	4.750	Double K	No	Yes	6.000	6.000

Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
245.000-235.000	T1 Solid Round	1 3/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
235.000-220.000	T2 Solid Round	2	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
220.000-200.000	T3 Solid Round	2 1/2	A529-50 (50 ksi)	Equal Angle	L2x2x3/16	A36M-50 (50 ksi)
200.000-180.000	T4 Solid Round	2 3/4	A529-50 (50 ksi)	Equal Angle	L2x2x3/16	A36M-50 (50 ksi)
180.000-160.000	T5 Solid Round	3	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
160.000-140.000	T6 Solid Round	3 1/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
140.000-120.000	T7 Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
120.000-100.000	T8 Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A36M-50 (50 ksi)
100.000-80.000	T9 Solid Round	3 3/4	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A36M-50 (50 ksi)
80.000-60.000	T10 Solid Round	4	A529-50 (50 ksi)	Equal Angle	L3x3x1/4	A36M-50 (50 ksi)
60.000-40.000	T11 Solid Round	4	A529-50 (50 ksi)	Equal Angle	L3x3x1/4	A36M-50 (50 ksi)
40.000-20.000	T12 Solid Round	4 1/4	A529-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
20.000-0.000	T13 Solid Round	4 1/4	A529-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
ft						
245.000-235.000	T1 Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)	Solid Round		A36M-50 (50 ksi)

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	ATS #A989 - Clementsville (Site# US-KY-5198)	Page	4 of 32
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	Client	Vertical Bridge	Designed by	BSevier

Tower Section Geometry (cont'd)

Tower Elevation	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
ft							
T12 40.000-20.000	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)
T13 20.000-0.000	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
ft						
T12 40.000-20.000	Solid Round		A36M-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T13 20.000-0.000	Solid Round		A36M-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
T1 245.000-235.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T2 235.000-220.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T3 220.000-200.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T4 200.000-180.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T5 180.000-160.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T6 160.000-140.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T7 140.000-120.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000

tnxTower

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Job	ATS #A989 - Clementsville (Site# US-KY-5198)	Page	7 of 32
Project	245' SST/37.294981, -85.090556	Date	17:10:55 05/28/24
Client	Vertical Bridge	Designed by	BSevier

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 245.000-235.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T2 235.000-220.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T3 220.000-200.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T4 200.000-180.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T5 180.000-160.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T6 160.000-140.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T7 140.000-120.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)

tnxTower

B+T Group
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Client	Vertical Bridge	Designed by	BSevier

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T8 120.000-100.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T9 100.000-80.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T10 80.000-60.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T11 60.000-40.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T12 40.000-20.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T13 20.000-0.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #A989 - Clementsville (Site# US-KY-5198)	Page 9 of 32
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0.000	0.75 (3)	0.000	0.75 (3)			0.000	0.75 (3)	0.000	0.75 (3)
0.000	0.75 (4)	0.000	0.75 (4)			0.000	0.75 (4)	0.000	0.75 (4)

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
245.000-235.000	T1 Flange	0.000 A325N	0	0.625 A325X	1	0.625 A325X	1	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
235.000-220.000	T2 Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
220.000-200.000	T3 Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
200.000-180.000	T4 Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
180.000-160.000	T5 Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
160.000-140.000	T6 Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
140.000-120.000	T7 Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
120.000-100.000	T8 Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
100.000-80.000	T9 Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
80.000-60.000	T10 Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
60.000-40.000	T11 Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
40.000-20.000	T12 Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
20.000-0.000	T13 Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0

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	Client Vertical Bridge	Designed by BSevier

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-5/8" Coax (Carrier 1) **	C	No	No	Ar (CaAa)	240.000 - 10.000	0.000	0	18	9	0.750	1.980		0.001
1-5/8" Coax (Carrier 2) **	B	No	No	Ar (CaAa)	229.000 - 10.000	0.000	0	12	6	0.750	1.980		0.001
1-5/8" Coax (Carrier 3) **	A	No	No	Ar (CaAa)	219.000 - 10.000	0.000	0	12	6	0.750	1.980		0.001
1-5/8" Coax (Carrier 4) **	B	No	No	Ar (CaAa)	205.000 - 10.000	0.000	-0.3	2	1	0.750	1.980		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	245.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable **	A	No	No	Ar (CaAa)	245.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001
Feedline Ladder (Af) **	C	No	No	Af (CaAa)	240.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af) **	B	No	No	Af (CaAa)	229.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af) **	A	No	No	Af (CaAa)	219.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight klf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T1	245.000-235.000	A	0.000	0.000	1.625	0.000	0.009
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	18.028	0.000	0.116
T2	235.000-220.000	A	0.000	0.000	2.438	0.000	0.014
		B	0.000	0.000	21.759	0.000	0.164
		C	0.000	0.000	54.085	0.000	0.347
T3	220.000-200.000	A	0.000	0.000	49.186	0.000	0.365
		B	0.000	0.000	50.333	0.000	0.373
		C	0.000	0.000	72.113	0.000	0.463

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	<p>Project</p> <p>245' SST/37.294981, -85.090556</p>	<p>Date</p> <p>17:10:55 05/28/24</p>
	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T4	200.000-180.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T5	180.000-160.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T6	160.000-140.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T7	140.000-120.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T8	120.000-100.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T9	100.000-80.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T10	80.000-60.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T11	60.000-40.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T12	40.000-20.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	56.273	0.000	0.398
		C	0.000	0.000	72.113	0.000	0.463
T13	20.000-0.000	A	0.000	0.000	25.802	0.000	0.192
		B	0.000	0.000	28.137	0.000	0.199
		C	0.000	0.000	36.057	0.000	0.232

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T1	245.000-235.000	A	1.829	0.000	0.000	8.942	0.000	0.127
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	19.990	0.000	0.483
T2	235.000-220.000	A	1.819	0.000	0.000	13.354	0.000	0.189
		B		0.000	0.000	27.275	0.000	0.647
		C		0.000	0.000	59.896	0.000	1.443
T3	220.000-200.000	A	1.805	0.000	0.000	75.124	0.000	1.607
		B		0.000	0.000	66.722	0.000	1.521
		C		0.000	0.000	79.713	0.000	1.914
T4	200.000-180.000	A	1.787	0.000	0.000	77.813	0.000	1.665
		B		0.000	0.000	85.201	0.000	1.782
		C		0.000	0.000	79.529	0.000	1.902
T5	180.000-160.000	A	1.767	0.000	0.000	77.446	0.000	1.651
		B		0.000	0.000	84.855	0.000	1.766
		C		0.000	0.000	79.327	0.000	1.889
T6	160.000-140.000	A	1.745	0.000	0.000	77.038	0.000	1.634
		B		0.000	0.000	84.470	0.000	1.748
		C		0.000	0.000	79.102	0.000	1.875
T7	140.000-120.000	A	1.720	0.000	0.000	76.577	0.000	1.616
		B		0.000	0.000	84.036	0.000	1.729
		C		0.000	0.000	78.848	0.000	1.859
T8	120.000-100.000	A	1.692	0.000	0.000	76.048	0.000	1.595

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #A989 - Clementsville (Site# US-KY-5198)	Page 12 of 32
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	Client Vertical Bridge	Designed by BSevier

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
		B		0.000	0.000	83.538	0.000	1.706
		C		0.000	0.000	78.557	0.000	1.840
T9	100.000-80.000	A	1.658	0.000	0.000	75.425	0.000	1.571
		B		0.000	0.000	82.950	0.000	1.680
		C		0.000	0.000	78.214	0.000	1.818
T10	80.000-60.000	A	1.617	0.000	0.000	74.661	0.000	1.542
		B		0.000	0.000	82.231	0.000	1.648
		C		0.000	0.000	77.793	0.000	1.792
T11	60.000-40.000	A	1.564	0.000	0.000	73.669	0.000	1.504
		B		0.000	0.000	81.296	0.000	1.608
		C		0.000	0.000	77.247	0.000	1.758
T12	40.000-20.000	A	1.486	0.000	0.000	72.226	0.000	1.450
		B		0.000	0.000	79.937	0.000	1.549
		C		0.000	0.000	76.454	0.000	1.709
T13	20.000-0.000	A	1.331	0.000	0.000	34.681	0.000	0.673
		B		0.000	0.000	38.622	0.000	0.719
		C		0.000	0.000	37.441	0.000	0.807

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	245.000-235.000	-0.826	2.214	-1.999	1.125
T2	235.000-220.000	1.020	0.815	-0.129	1.332
T3	220.000-200.000	-0.305	-3.755	-1.061	-2.946
T4	200.000-180.000	-0.104	-5.431	-0.770	-4.916
T5	180.000-160.000	-0.121	-5.596	-0.847	-5.303
T6	160.000-140.000	-0.141	-6.024	-0.931	-5.759
T7	140.000-120.000	-0.159	-6.400	-1.004	-6.163
T8	120.000-100.000	-0.163	-6.306	-1.029	-6.325
T9	100.000-80.000	-0.176	-6.560	-1.076	-6.625
T10	80.000-60.000	-0.187	-6.786	-1.112	-6.892
T11	60.000-40.000	-0.198	-7.029	-1.138	-7.151
T12	40.000-20.000	-0.258	-8.955	-1.332	-8.559
T13	20.000-0.000	-0.166	-5.602	-0.794	-5.383

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	1	1-5/8" Coax	235.00 - 240.00	0.6000	0.5569
T1	9	Safety Line 3/8	235.00 - 245.00	0.6000	0.5569
T1	10	Strobe Cable	235.00 - 245.00	0.6000	0.5569
T1	12	Feedline Ladder (Af)	235.00 - 240.00	0.6000	0.5569
T2	1	1-5/8" Coax	220.00 - 235.00	0.6000	0.6000

tnxTower

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T2	3	1-5/8" Coax	220.00 - 229.00	0.6000	0.6000
T2	9	Safety Line 3/8	220.00 - 235.00	0.6000	0.6000
T2	10	Strobe Cable	220.00 - 235.00	0.6000	0.6000
T2	12	Feedline Ladder (Af)	220.00 - 235.00	0.6000	0.6000
T2	13	Feedline Ladder (Af)	220.00 - 229.00	0.6000	0.6000
T3	1	1-5/8" Coax	200.00 - 220.00	0.6000	0.6000
T3	3	1-5/8" Coax	200.00 - 220.00	0.6000	0.6000
T3	5	1-5/8" Coax	200.00 - 219.00	0.6000	0.6000
T3	7	1-5/8" Coax	200.00 - 205.00	0.6000	0.6000
T3	9	Safety Line 3/8	200.00 - 220.00	0.6000	0.6000
T3	10	Strobe Cable	200.00 - 220.00	0.6000	0.6000
T3	12	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.6000
T3	13	Feedline Ladder (Af)	200.00 - 220.00	0.6000	0.6000
T3	14	Feedline Ladder (Af)	200.00 - 219.00	0.6000	0.6000
T4	1	1-5/8" Coax	180.00 - 200.00	0.6000	0.6000
T4	3	1-5/8" Coax	180.00 - 200.00	0.6000	0.6000
T4	5	1-5/8" Coax	180.00 - 200.00	0.6000	0.6000
T4	7	1-5/8" Coax	180.00 - 200.00	0.6000	0.6000
T4	9	Safety Line 3/8	180.00 - 200.00	0.6000	0.6000
T4	10	Strobe Cable	180.00 - 200.00	0.6000	0.6000
T4	12	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	13	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	14	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T5	1	1-5/8" Coax	160.00 - 180.00	0.6000	0.6000
T5	3	1-5/8" Coax	160.00 - 180.00	0.6000	0.6000
T5	5	1-5/8" Coax	160.00 - 180.00	0.6000	0.6000
T5	7	1-5/8" Coax	160.00 - 180.00	0.6000	0.6000
T5	9	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T5	10	Strobe Cable	160.00 - 180.00	0.6000	0.6000
T5	12	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	13	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000

tnxTower

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Job

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Project

245' SST/37.294981, -85.090556

Date

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Client

Vertical Bridge

Designed by

BSevier

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T5	14	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T6	1	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	3	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	5	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	7	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	9	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T6	10	Strobe Cable	140.00 - 160.00	0.6000	0.6000
T6	12	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	13	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	14	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T7	1	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	3	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	5	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	7	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	9	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T7	10	Strobe Cable	120.00 - 140.00	0.6000	0.6000
T7	12	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	13	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	14	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T8	1	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	3	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	5	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	7	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	9	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T8	10	Strobe Cable	100.00 - 120.00	0.6000	0.6000
T8	12	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	13	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	14	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T9	1	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	3	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	5	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	7	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	9	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T9	10	Strobe Cable	80.00 - 100.00	0.6000	0.6000

<p>tnxTower</p> <p>B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job</p> <p>ATS #A989 - Clementsville (Site# US-KY-5198)</p>	<p>Page</p> <p>15 of 32</p>
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	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T9	12	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	13	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	14	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T10	1	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	3	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	5	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	7	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	9	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T10	10	Strobe Cable	60.00 - 80.00	0.6000	0.6000
T10	12	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	13	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	14	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T11	1	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	3	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	5	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	7	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	9	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T11	10	Strobe Cable	40.00 - 60.00	0.6000	0.6000
T11	12	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	13	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	14	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T12	1	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	3	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	5	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	7	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	9	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T12	10	Strobe Cable	20.00 - 40.00	0.6000	0.6000
T12	12	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	13	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	14	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T13	1	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	3	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	5	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	7	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	9	Safety Line 3/8	10.00 - 20.00	0.6000	0.6000
T13	10	Strobe Cable	10.00 - 20.00	0.6000	0.6000
T13	12	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	13	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	14	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C_{AA} Front ft ²	C_{AA} Side ft ²	Weight K	
Lightning Rod 1"x10'	C	From Leg	0.000	0.000	245.000	No Ice	1.000	1.000	0.040
			0.000			1/2" Ice	2.017	2.017	0.049
			5.000			1" Ice	3.050	3.050	0.065
						2" Ice	5.148	5.148	0.116
Top Beacon	B	From Leg	0.000	0.000	245.000	No Ice	2.700	2.700	0.050
			0.000			1/2" Ice	3.100	3.100	0.070

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	Client Vertical Bridge	Designed by BSevier

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral ft	Vert ft							
6' MW Dish (Carrier 4)	C	Paraboloid w/o Radome	From Leg	1.000	0.000	0.000	°	205.000	6.000	No Ice	28.270	0.143
				0.000	0.000					1/2" Ice	29.050	0.292
				0.000	0.000					1" Ice	29.831	0.441
				0.000	0.000					2" Ice	31.392	0.740
6' MW Dish (Carrier 4)	B	Paraboloid w/o Radome	From Leg	1.000	0.000	0.000	°	205.000	6.000	No Ice	28.270	0.143
				0.000	0.000					1/2" Ice	29.050	0.292
				0.000	0.000					1" Ice	29.831	0.441
				0.000	0.000					2" Ice	31.392	0.740
**												

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service

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	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Comb. No.	Description
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	245 - 235	Leg	Max Tension	15	7.100	1.380	-0.002
			Max. Compression	2	-14.303	0.397	-0.001
			Max. Mx	2	-14.301	-1.562	0.002
			Max. My	14	-9.277	-0.768	-0.614
			Max. Vy	2	-3.916	0.397	-0.001
			Max. Vx	22	2.366	0.202	0.091
		Diagonal	Max Tension	8	5.010	0.000	0.000
			Max. Compression	12	-4.889	0.000	0.000
			Max. Mx	3	-0.611	0.037	-0.001
			Max. My	8	-4.878	-0.001	-0.038
			Max. Vy	29	0.019	0.016	-0.001
			Max. Vx	8	0.012	0.000	0.000
		Top Girt	Max Tension	14	2.050	0.000	0.000
			Max. Compression	2	-1.968	0.000	0.000
			Max. Mx	35	-0.189	-0.026	0.000
Max. My	34		-0.145	0.000	0.001		
Max. Vy	35		0.025	0.000	0.000		
Max. Vx	34		-0.001	0.000	0.000		
T2	235 - 220	Leg	Max Tension	15	38.126	1.632	-0.005
			Max. Compression	2	-47.964	1.054	-0.005
			Max. Mx	2	-14.308	2.351	-0.004
			Max. My	6	-9.212	1.126	-0.886
			Max. Vy	2	-6.079	1.054	-0.005
			Max. Vx	6	2.066	0.468	-0.510
		Diagonal	Max Tension	16	6.673	0.000	0.000
			Max. Compression	4	-6.299	0.000	0.000
			Max. Mx	2	-0.457	0.035	-0.002
			Max. My	4	-6.281	-0.009	0.036
			Max. Vy	28	-0.024	0.025	0.001
			Max. Vx	4	-0.010	0.000	0.000
T3	220 - 200	Leg	Max Tension	15	90.480	2.830	-0.004
			Max. Compression	2	-105.038	0.774	-0.001
			Max. Mx	2	-47.981	4.064	-0.016
			Max. My	2	15.802	-1.910	-1.544
			Max. Vy	2	-9.143	0.774	-0.001
			Max. Vx	6	3.390	0.341	-0.411
		Diagonal	Max Tension	20	8.976	0.000	0.000
			Max. Compression	16	-8.752	0.000	0.000
			Max. Mx	2	-0.870	0.036	-0.002
			Max. My	8	-8.183	-0.009	-0.032
			Max. Vy	34	0.031	0.029	-0.003
			Max. Vx	8	0.008	0.000	0.000

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	ATS #A989 - Clementsville (Site# US-KY-5198)	Page	19 of 32
	Project	245' SST/37.294981, -85.090556	Date	17:10:55 05/28/24
	Client	Vertical Bridge	Designed by	BSevier

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
T4	200 - 180	Leg	Max Tension	15	135.650	2.841	-0.002			
			Max. Compression	2	-155.322	0.808	-0.000			
			Max. Mx	2	-105.055	5.323	-0.006			
			Max. My	6	-54.945	2.402	-2.100			
			Max. Vy	2	-9.291	0.808	-0.000			
			Max. Vx	6	3.376	2.402	-2.100			
		Diagonal	Max Tension	20	8.293	0.000	0.000			
			Max. Compression	20	-9.073	0.000	0.000			
			Max. Mx	36	1.280	0.038	-0.003			
			Max. My	20	-9.035	-0.006	0.023			
			Max. Vy	34	0.037	0.038	-0.004			
			Max. Vx	20	-0.005	0.000	0.000			
			T5	180 - 160	Leg	Max Tension	15	174.697	3.077	-0.001
						Max. Compression	2	-199.479	0.805	-0.000
Max. Mx	2	-155.340				5.428	-0.004			
Max. My	6	-79.596				2.386	-2.001			
Max. Vy	2	-9.833				0.805	-0.000			
Max. Vx	6	3.279				2.386	-2.001			
Diagonal	Max Tension	8			7.762	0.000	0.000			
	Max. Compression	8			-8.329	0.000	0.000			
	Max. Mx	36			1.275	0.059	-0.004			
	Max. My	20			-8.268	-0.011	0.021			
	Max. Vy	32			0.050	0.057	0.006			
	Max. Vx	20			-0.004	0.000	0.000			
	T6	160 - 140			Leg	Max Tension	15	210.233	3.370	-0.000
						Max. Compression	2	-240.258	0.821	0.000
Max. Mx			2	-199.498		5.698	-0.002			
Max. My			4	-13.705		0.106	-1.952			
Max. Vy			2	-10.559		0.821	0.000			
Max. Vx			4	3.406		0.011	-0.355			
Diagonal			Max Tension	16	7.797	0.000	0.000			
			Max. Compression	8	-8.052	0.000	0.000			
			Max. Mx	32	0.273	0.072	0.007			
			Max. My	8	-7.977	-0.003	-0.016			
			Max. Vy	32	0.056	0.072	0.007			
			Max. Vx	8	0.003	0.000	0.000			
			T7	140 - 120	Leg	Max Tension	15	243.620	4.100	0.001
						Max. Compression	2	-279.120	0.242	0.000
Max. Mx	2	-240.279				6.080	-0.000			
Max. My	4	-16.158				0.104	-2.061			
Max. Vy	2	-11.410				0.242	0.000			
Max. Vx	24	-3.693				0.002	0.247			
Diagonal	Max Tension	16			8.162	0.000	0.000			
	Max. Compression	16			-8.158	0.000	0.000			
	Max. Mx	32			0.286	0.088	0.009			
	Max. My	8			-7.964	0.004	-0.012			
	Max. Vy	32			0.062	0.088	0.009			
	Max. Vx	27			0.002	0.000	0.000			
	T8	120 - 100			Leg	Max Tension	15	275.498	3.974	0.001
						Max. Compression	2	-316.760	0.917	0.000
Max. Mx			2	-279.140		5.943	0.001			
Max. My			24	-18.583		0.093	2.096			
Max. Vy			2	-12.520		0.917	0.000			
Max. Vx			24	-4.025		0.011	0.405			
Diagonal			Max Tension	16	8.574	0.000	0.000			
			Max. Compression	16	-8.469	0.000	0.000			
			Max. Mx	32	0.278	0.121	0.012			
			Max. My	8	-8.134	0.003	-0.013			
			Max. Vy	38	0.078	0.121	-0.012			
			Max. Vx	35	-0.003	0.000	0.000			
			T9	100 - 80	Leg	Max Tension	15	306.592	4.246	0.002

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	Project	245' SST/37.294981, -85.090556	Date	17:10:55 05/28/24
	Client	Vertical Bridge	Designed by	BSevier

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
T10	80 - 60	Leg	Max. Compression	2	-354.064	1.123	0.001			
			Max. Mx	2	-316.784	7.155	0.003			
			Max. My	24	-20.980	0.103	2.421			
			Max. Vy	2	-13.475	1.123	0.001			
			Max. Vx	24	-4.351	0.019	0.596			
			Max Tension	12	9.004	0.000	0.000			
			Max. Compression	16	-9.026	0.000	0.000			
			Max. Mx	38	0.306	0.142	-0.013			
			Max. My	35	0.232	0.138	-0.014			
			Max. Vy	38	0.084	0.142	-0.013			
			Max. Vx	35	-0.003	0.000	0.000			
			Max Tension	15	337.014	5.316	0.003			
			Max. Compression	2	-391.474	0.239	0.000			
			Max. Mx	2	-354.092	7.835	0.004			
			Max. My	24	-23.436	0.124	2.774			
			T11	60 - 40	Leg	Max. Vy	2	-14.546	0.239	0.000
Max. Vx	24	-4.715				0.005	0.223			
Max Tension	12	9.808				0.000	0.000			
Max. Compression	16	-9.659				0.000	0.000			
Max. Mx	38	0.346				0.177	-0.016			
Max. My	35	0.376				0.172	-0.017			
Max. Vy	38	0.097				0.177	-0.016			
Max. Vx	35	-0.004				0.000	0.000			
Max Tension	15	366.651				4.991	0.003			
Max. Compression	2	-428.282				0.948	0.001			
Max. Mx	2	-391.500				7.511	0.005			
Max. My	24	-26.186				0.124	2.583			
Max. Vy	2	-15.338				0.948	0.001			
Max. Vx	24	-5.306				-0.008	1.025			
T12	40 - 20	Leg				Max Tension	12	10.161	0.000	0.000
						Max. Compression	12	-10.076	0.000	0.000
			Max. Mx	33	0.186	0.207	-0.019			
			Max. My	34	0.555	0.202	-0.019			
			Max. Vy	33	0.102	0.207	-0.019			
			Max. Vx	34	-0.004	0.000	0.000			
			Max Tension	15	395.481	6.479	0.004			
			Max. Compression	2	-464.610	-0.561	0.000			
			Max. Mx	2	-428.313	8.601	0.007			
			Max. My	24	-28.955	0.129	3.679			
			Max. Vy	2	-15.939	-0.561	0.000			
			Max. Vx	24	-5.308	0.129	3.679			
			Max Tension	13	11.230	0.000	0.000			
			Max. Compression	3	-11.528	0.000	0.000			
			Max. Mx	34	1.932	0.299	0.000			
			T13	20 - 0	Leg	Max. My	27	0.395	0.000	0.007
Max. Vy	34	0.104				0.000	0.000			
Max. Vx	27	0.002				0.000	0.000			
Max Tension	2	1.788				-0.079	0.001			
Max. Compression	4	-1.720				0.000	0.000			
Max. Mx	27	-0.010				-0.210	0.004			
Max. My	14	0.698				-0.066	0.006			
Max. Vy	33	0.105				-0.209	0.004			
Max. Vx	27	-0.002				-0.209	0.004			
Max Tension	1	0.000				0.000	0.000			
Max. Compression	33	-0.010				0.000	0.000			
Max. Mx	26	-0.009				-0.129	0.000			
Max. My	2	-0.006				0.000	-0.000			
Max. Vy	26	0.050				0.000	0.000			
Max. Vx	2	0.000				0.000	0.000			
Max Tension	15	422.605				6.229	0.005			
Max. Compression	2	-498.796	0.000	-0.000						

tnxTower B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job	ATS #A989 - Clementsville (Site# US-KY-5198)	Page	21 of 32
	Project	245' SST/37.294981, -85.090556	Date	17:10:55 05/28/24
	Client	Vertical Bridge	Designed by	BSevier

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	2	-498.767	-8.303	-0.006
			Max. My	25	-25.581	0.070	2.957
			Max. Vy	2	-16.593	0.000	-0.000
			Max. Vx	24	-5.252	0.083	2.956
		Diagonal	Max Tension	13	11.055	0.000	0.000
			Max. Compression	12	-11.258	0.000	0.000
			Max. Mx	27	2.118	0.313	0.000
			Max. My	27	0.859	0.000	0.007
			Max. Vy	27	-0.103	0.000	0.000
			Max. Vx	27	-0.002	0.000	0.000
		Horizontal	Max Tension	2	1.741	-0.091	0.001
			Max. Compression	15	-1.635	-0.065	0.002
			Max. Mx	27	-0.055	-0.229	0.005
			Max. My	33	0.134	-0.227	0.006
			Max. Vy	33	-0.103	-0.215	0.004
			Max. Vx	33	0.002	-0.227	0.006
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	33	-0.009	0.000	0.000
			Max. Mx	31	-0.009	-0.133	0.000
			Max. My	2	-0.007	0.000	-0.000
			Max. Vy	31	0.048	0.000	0.000
			Max. Vx	2	0.000	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	474.853	29.614	-17.029
	Max. H _x	18	474.853	29.614	-17.029
	Max. H _z	5	-367.141	-23.170	15.972
	Min. Vert	7	-405.775	-26.622	15.286
	Min. H _x	7	-405.775	-26.622	15.286
	Min. H _z	18	474.853	29.614	-17.029
Leg B	Max. Vert	10	475.235	-29.704	-17.108
	Max. H _x	23	-406.238	26.721	15.374
	Max. H _z	25	-366.268	23.165	15.957
	Min. Vert	23	-406.238	26.721	15.374
	Min. H _x	10	475.235	-29.704	-17.108
	Min. H _z	10	475.235	-29.704	-17.108
Leg A	Max. Vert	2	497.775	-0.010	35.963
	Max. H _x	21	26.718	4.501	1.234
	Max. H _z	2	497.775	-0.010	35.963
	Min. Vert	15	-421.540	0.011	-32.180
	Min. H _x	9	26.718	-4.502	1.234
	Min. H _z	15	-421.540	0.011	-32.180

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	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overtuning Moment, M _x	Overtuning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	67.828	-0.000	-0.000	4.474	0.424	-0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	81.393	0.000	-60.410	-9170.759	0.514	-0.401
0.9 Dead+1.0 Wind 0 deg - No Ice	61.045	0.000	-60.411	-9146.635	0.385	-0.400
1.2 Dead+1.0 Wind 30 deg - No Ice	81.393	28.677	-48.333	-7429.799	-4452.534	7.096
0.9 Dead+1.0 Wind 30 deg - No Ice	61.045	28.678	-48.334	-7410.334	-4440.158	7.086
1.2 Dead+1.0 Wind 60 deg - No Ice	81.393	46.313	-26.580	-4134.493	-7226.959	2.509
0.9 Dead+1.0 Wind 60 deg - No Ice	61.045	46.314	-26.581	-4124.190	-7206.678	2.493
1.2 Dead+1.0 Wind 90 deg - No Ice	81.393	53.562	-0.619	-123.112	-8302.317	-4.565
0.9 Dead+1.0 Wind 90 deg - No Ice	61.045	53.564	-0.619	-124.118	-8279.075	-4.589
1.2 Dead+1.0 Wind 120 deg - No Ice	81.393	50.218	27.758	4177.880	-7670.233	-0.488
0.9 Dead+1.0 Wind 120 deg - No Ice	61.045	50.220	27.759	4164.915	-7648.962	-0.507
1.2 Dead+1.0 Wind 150 deg - No Ice	81.393	27.933	48.322	7420.848	-4287.760	5.247
0.9 Dead+1.0 Wind 150 deg - No Ice	61.045	27.934	48.323	7398.719	-4275.880	5.236
1.2 Dead+1.0 Wind 180 deg - No Ice	81.393	0.000	55.943	8636.028	0.514	0.400
0.9 Dead+1.0 Wind 180 deg - No Ice	61.045	0.000	55.944	8610.449	0.385	0.399
1.2 Dead+1.0 Wind 210 deg - No Ice	81.393	-27.933	48.322	7438.604	4299.034	-4.590
0.9 Dead+1.0 Wind 210 deg - No Ice	61.045	-27.934	48.323	7416.392	4286.848	-4.581
1.2 Dead+1.0 Wind 240 deg - No Ice	81.393	-50.005	27.635	4173.723	7664.051	-0.488
0.9 Dead+1.0 Wind 240 deg - No Ice	61.045	-50.006	27.636	4160.741	7642.492	-0.470
1.2 Dead+1.0 Wind 270 deg - No Ice	81.393	-53.562	-0.619	-123.113	8303.344	4.565
0.9 Dead+1.0 Wind 270 deg - No Ice	61.045	-53.564	-0.619	-124.118	8279.844	4.589
1.2 Dead+1.0 Wind 300 deg - No Ice	81.393	-46.526	-26.704	-4138.658	7235.189	-1.533
0.9 Dead+1.0 Wind 300 deg - No Ice	61.045	-46.527	-26.704	-4128.373	7214.680	-1.516
1.2 Dead+1.0 Wind 330 deg - No Ice	81.393	-28.677	-48.333	-7412.047	4443.308	-7.752
0.9 Dead+1.0 Wind 330 deg - No Ice	61.045	-28.678	-48.334	-7392.665	4430.721	-7.741
1.2 Dead+1.0 Ice+1.0 Temp	202.371	0.000	-0.001	8.017	4.086	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	202.371	0.000	-8.119	-1300.074	4.199	-0.463
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	202.371	3.944	-6.712	-1082.594	-640.432	-1.002
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	202.371	6.567	-3.777	-610.292	-1072.915	-0.691
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	202.371	7.574	-0.056	-3.175	-1233.960	-0.362

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	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	202.371	6.865	3.853	626.840	-1107.301	-0.659
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	202.371	3.900	6.750	1102.634	-628.117	-0.569
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	202.371	0.000	7.802	1277.249	4.198	0.463
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	202.371	-3.877	6.711	1099.530	634.719	1.228
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	202.371	-6.826	3.830	625.047	1112.591	0.873
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	202.371	-7.574	-0.056	-3.176	1242.356	0.362
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	202.371	-6.606	-3.800	-612.084	1084.415	0.477
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	202.371	-3.967	-6.751	-1085.697	650.621	0.344
Dead+Wind 0 deg - Service	67.828	0.000	-19.726	-2986.432	0.427	-0.131
Dead+Wind 30 deg - Service	67.828	9.364	-15.783	-2418.948	-1450.943	2.330
Dead+Wind 60 deg - Service	67.828	15.123	-8.679	-1344.821	-2355.260	0.816
Dead+Wind 90 deg - Service	67.828	17.490	-0.202	-37.309	-2705.775	-1.508
Dead+Wind 120 deg - Service	67.828	16.398	9.064	1364.523	-2499.805	-0.165
Dead+Wind 150 deg - Service	67.828	9.121	15.779	2421.487	-1397.350	1.725
Dead+Wind 180 deg - Service	67.828	0.000	18.267	2817.589	0.427	0.131
Dead+Wind 210 deg - Service	67.828	-9.121	15.779	2427.269	1401.543	-1.511
Dead+Wind 240 deg - Service	67.828	-16.328	9.024	1363.162	2498.301	-0.154
Dead+Wind 270 deg - Service	67.828	-17.490	-0.202	-37.309	2706.629	1.508
Dead+Wind 300 deg - Service	67.828	-15.192	-8.720	-1346.182	2358.473	-0.497
Dead+Wind 330 deg - Service	67.828	-9.364	-15.782	-2413.167	1448.460	-2.544

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-67.828	0.000	0.000	67.828	0.000	0.000%
2	0.000	-81.394	-60.414	-0.000	81.393	60.410	0.005%
3	0.000	-61.045	-60.414	-0.000	61.045	60.411	0.004%
4	28.679	-81.394	-48.337	-28.677	81.393	48.333	0.005%
5	28.679	-61.045	-48.337	-28.678	61.045	48.334	0.004%
6	46.316	-81.394	-26.583	-46.313	81.393	26.580	0.004%
7	46.316	-61.045	-26.583	-46.314	61.045	26.581	0.004%
8	53.567	-81.394	-0.619	-53.562	81.393	0.619	0.004%
9	53.567	-61.045	-0.619	-53.564	61.045	0.619	0.004%
10	50.223	-81.394	27.761	-50.218	81.393	-27.758	0.005%
11	50.223	-61.045	27.761	-50.220	61.045	-27.759	0.004%
12	27.936	-81.394	48.326	-27.933	81.393	-48.322	0.004%
13	27.936	-61.045	48.326	-27.934	61.045	-48.323	0.004%
14	0.000	-81.394	55.947	-0.000	81.393	-55.943	0.004%
15	0.000	-61.045	55.947	-0.000	61.045	-55.944	0.004%
16	-27.936	-81.394	48.326	27.933	81.393	-48.322	0.005%
17	-27.936	-61.045	48.326	27.934	61.045	-48.323	0.004%
18	-50.009	-81.394	27.637	50.005	81.393	-27.635	0.005%
19	-50.009	-61.045	27.637	50.006	61.045	-27.636	0.004%
20	-53.567	-81.394	-0.619	53.562	81.393	0.619	0.004%
21	-53.567	-61.045	-0.619	53.564	61.045	0.619	0.004%
22	-46.530	-81.394	-26.706	46.526	81.393	26.704	0.004%
23	-46.530	-61.045	-26.706	46.527	61.045	26.704	0.004%
24	-28.679	-81.394	-48.337	28.677	81.393	48.333	0.005%

<p>tnxTower</p> <p>B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job</p> <p>ATS #A989 - Clementsville (Site# US-KY-5198)</p>	<p>Page</p> <p>24 of 32</p>
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	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
25	-28.679	-61.045	-48.337	28.678	61.045	48.334	0.004%
26	0.000	-202.371	0.000	-0.000	202.371	0.001	0.001%
27	0.000	-202.371	-8.120	-0.000	202.371	8.119	0.000%
28	3.945	-202.371	-6.712	-3.944	202.371	6.712	0.000%
29	6.568	-202.371	-3.778	-6.567	202.371	3.777	0.000%
30	7.575	-202.371	-0.056	-7.574	202.371	0.056	0.000%
31	6.866	-202.371	3.853	-6.865	202.371	-3.853	0.000%
32	3.900	-202.371	6.750	-3.900	202.371	-6.750	0.000%
33	0.000	-202.371	7.803	-0.000	202.371	-7.802	0.000%
34	-3.878	-202.371	6.711	3.877	202.371	-6.711	0.000%
35	-6.827	-202.371	3.831	6.826	202.371	-3.830	0.000%
36	-7.575	-202.371	-0.056	7.574	202.371	0.056	0.000%
37	-6.607	-202.371	-3.800	6.606	202.371	3.800	0.000%
38	-3.967	-202.371	-6.751	3.967	202.371	6.751	0.000%
39	0.000	-67.828	-19.727	-0.000	67.828	19.726	0.002%
40	9.365	-67.828	-15.784	-9.364	67.828	15.783	0.002%
41	15.124	-67.828	-8.680	-15.123	67.828	8.679	0.002%
42	17.491	-67.828	-0.202	-17.490	67.828	0.202	0.002%
43	16.399	-67.828	9.065	-16.398	67.828	-9.064	0.002%
44	9.122	-67.828	15.780	-9.121	67.828	-15.779	0.002%
45	0.000	-67.828	18.268	-0.000	67.828	-18.267	0.002%
46	-9.122	-67.828	15.780	9.121	67.828	-15.779	0.002%
47	-16.330	-67.828	9.024	16.328	67.828	-9.024	0.002%
48	-17.491	-67.828	-0.202	17.490	67.828	0.202	0.002%
49	-15.193	-67.828	-8.720	15.192	67.828	8.720	0.002%
50	-9.365	-67.828	-15.783	9.364	67.828	15.782	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	13	0.00006384	0.00014194
3	Yes	13	0.00004728	0.00010585
4	Yes	13	0.00006131	0.00013678
5	Yes	13	0.00004489	0.00010084
6	Yes	13	0.00005915	0.00013233
7	Yes	13	0.00004282	0.00009649
8	Yes	13	0.00006140	0.00013701
9	Yes	13	0.00004494	0.00010100
10	Yes	13	0.00006374	0.00014176
11	Yes	13	0.00004716	0.00010564
12	Yes	13	0.00006142	0.00013697
13	Yes	13	0.00004498	0.00010103
14	Yes	13	0.00005900	0.00013192
15	Yes	13	0.00004270	0.00009616
16	Yes	13	0.00006146	0.00013708
17	Yes	13	0.00004501	0.00010111
18	Yes	13	0.00006379	0.00014192
19	Yes	13	0.00004720	0.00010577
20	Yes	13	0.00006140	0.00013701
21	Yes	13	0.00004494	0.00010100
22	Yes	13	0.00005910	0.00013218
23	Yes	13	0.00004279	0.00009639
24	Yes	13	0.00006128	0.00013667
25	Yes	13	0.00004486	0.00010076

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26	Yes	6	0.00000001	0.00003884
27	Yes	14	0.00000001	0.00010731
28	Yes	14	0.00000001	0.00010547
29	Yes	14	0.00000001	0.00010468
30	Yes	14	0.00000001	0.00010526
31	Yes	14	0.00000001	0.00010739
32	Yes	14	0.00000001	0.00010741
33	Yes	14	0.00000001	0.00010785
34	Yes	14	0.00000001	0.00010763
35	Yes	14	0.00000001	0.00010776
36	Yes	14	0.00000001	0.00010567
37	Yes	14	0.00000001	0.00010503
38	Yes	14	0.00000001	0.00010567
39	Yes	13	0.00000001	0.00011116
40	Yes	13	0.00000001	0.00010974
41	Yes	13	0.00000001	0.00010851
42	Yes	13	0.00000001	0.00010984
43	Yes	13	0.00000001	0.00011113
44	Yes	13	0.00000001	0.00010979
45	Yes	13	0.00000001	0.00010838
46	Yes	13	0.00000001	0.00010988
47	Yes	13	0.00000001	0.00011126
48	Yes	13	0.00000001	0.00010984
49	Yes	13	0.00000001	0.00010838
50	Yes	13	0.00000001	0.00010964

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 235	13.021	39	0.464	0.145
T2	235 - 220	11.994	39	0.466	0.122
T3	220 - 200	10.451	39	0.449	0.084
T4	200 - 180	8.547	39	0.408	0.051
T5	180 - 160	6.841	39	0.357	0.028
T6	160 - 140	5.370	39	0.306	0.016
T7	140 - 120	4.105	39	0.258	0.009
T8	120 - 100	3.022	39	0.216	0.005
T9	100 - 80	2.123	39	0.172	0.004
T10	80 - 60	1.388	39	0.133	0.003
T11	60 - 40	0.818	39	0.099	0.003
T12	40 - 20	0.384	39	0.064	0.002
T13	20 - 0	0.125	39	0.032	0.001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.000	Lightning Rod 1"x10'	39	13.021	0.464	0.145	130878
240.000	Sector1(CaAa=14000 Sq.in)No Ice	39	12.509	0.466	0.134	130878
229.000	Sector1(CaAa=10000 Sq.in)No Ice	39	11.372	0.462	0.107	92382
219.000	Sector1(CaAa=10000 Sq.in)No Ice	39	10.351	0.447	0.082	22123
205.000	6' MW Dish	39	9.004	0.419	0.058	24802

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Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 235	40.088	2	1.433	0.448
T2	235 - 220	36.917	2	1.439	0.377
T3	220 - 200	32.158	2	1.383	0.259
T4	200 - 180	26.290	2	1.255	0.157
T5	180 - 160	21.036	2	1.098	0.086
T6	160 - 140	16.509	2	0.940	0.050
T7	140 - 120	12.618	2	0.795	0.027
T8	120 - 100	9.287	2	0.664	0.015
T9	100 - 80	6.523	2	0.529	0.012
T10	80 - 60	4.265	2	0.410	0.010
T11	60 - 40	2.512	2	0.303	0.008
T12	40 - 20	1.179	2	0.196	0.005
T13	20 - 0	0.384	2	0.098	0.002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.000	Lightning Rod 1"x10'	2	40.088	1.433	0.448	43575
240.000	Sector1(CaAa=14000 Sq.in)No Ice	2	38.506	1.439	0.414	43575
229.000	Sector1(CaAa=10000 Sq.in)No Ice	2	34.999	1.425	0.329	30087
219.000	Sector1(CaAa=10000 Sq.in)No Ice	2	31.849	1.377	0.252	7155
205.000	6' MW Dish	2	27.700	1.291	0.178	8118

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T1	245	Diagonal	A325X	0.625	1	5.010	9.598	0.522	✓	1	Member Block Shear
		Top Girt	A325X	0.625	1	2.050	9.598	0.214	✓	1	Member Block Shear
T2	235	Leg	A325N	0.750	6	1.183	30.101	0.039	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	6.673	9.598	0.695	✓	1	Member Block Shear
T3	220	Leg	A325N	0.750	6	6.353	30.101	0.211	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.976	10.740	0.836	✓	1	Member Block Shear
T4	200	Leg	A325N	0.750	6	15.078	30.101	0.501	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.293	10.740	0.772	✓	1	Member Block Shear

inxTower
B+T Group
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 Tulsa, OK 74119
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Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	in	Number Of Bolts	Maximum Load per Bolt	K	Allowable Load	Ratio	Allowable Load	Criteria
T5	180	Leg	A325N	1.000	6	22.607	54.517	0.415	0.415	✔	0.596	Member Block Shear
T6	160	Leg	A325N	1.000	6	29.114	54.517	0.534	0.534	✔	0.599	Member Block Shear
T7	140	Leg	A325N	1.000	6	35.037	54.517	0.643	0.643	✔	0.627	Member Block Shear
T8	120	Leg	A325N	1.000	6	40.601	54.517	0.745	0.745	✔	0.605	Member Block Shear
T9	100	Leg	A325N	1.250	6	45.914	87.220	0.526	0.526	✔	0.636	Member Block Shear
T10	80	Leg	A325N	1.250	6	51.096	87.220	0.586	0.586	✔	0.568	Member Block Shear
T11	60	Leg	A325N	1.250	6	56.166	87.220	0.644	0.644	✔	0.589	Member Block Shear
T12	40	Leg	A325N	1.250	6	61.105	87.220	0.701	0.701	✔	0.431	Member Block Shear
T13	20	Leg	A325N	1.250	6	65.910	87.220	0.756	0.756	✔	0.424	Member Block Shear
		Horizontal	A325X	0.625	1	8.053	21.480	0.375	0.375	✔	0.402	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation	Size	L	L _n	K/l _r	A	P _n	P _n	Ratio
T1	245 - 235	1 3/4	10,009	4,504	123.5	2.405	-9,649	35,601	0.271 ¹
T2	235 - 220	2	15,014	4,671	112.1	3.142	-42,135	56,401	0.747 ¹
T3	220 - 200	2 1/2	20,019	4,754	91.3	4.909	-98,163	120,108	0.817 ¹
T4	200 - 180	2 3/4	20,019	4,754	83.0	5.940	-149,459	161,540	0.925 ¹

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	Client	Vertical Bridge	Designed by	BSevier

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	180 - 160	3	20.019	4.754	76.1 K=1.00	7.069	-194.021	208.347	0.931 ¹ ✓
T6	160 - 140	3 1/4	20.019	4.754	70.2 K=1.00	8.296	-234.977	260.312	0.903 ¹ ✓
T7	140 - 120	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-273.915	317.273	0.863 ¹ ✓
T8	120 - 100	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-311.649	317.273	0.982 ¹ ✓
T9	100 - 80	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-348.904	379.106	0.920 ¹ ✓
T10	80 - 60	4	20.019	4.754	57.1 K=1.00	12.566	-386.213	445.717	0.867 ¹ ✓
T11	60 - 40	4	20.019	4.754	57.1 K=1.00	12.566	-423.161	445.717	0.949 ¹ ✓
T12	40 - 20	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-454.962	517.034	0.880 ¹ ✓
T13	20 - 0	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-489.485	517.034	0.947 ¹ ✓

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	6.485	3.258	113.9 K=1.00	0.621	-4.889	13.715	0.356 ¹ ✓
T2	235 - 220	L1 3/4x1 3/4x3/16	7.435	3.723	130.1 K=1.00	0.621	-6.299	10.506	0.600 ¹ ✓
T3	220 - 200	L2x2x3/16	8.697	4.330	131.9 K=1.00	0.715	-8.218	11.765	0.699 ¹ ✓
T4	200 - 180	L2x2x3/16	9.987	4.964	151.2 K=1.00	0.715	-7.545	8.951	0.843 ¹ ✓
T5	180 - 160	L2 1/2x2 1/2x3/16	11.329	5.625	136.4 K=1.00	0.902	-7.357	13.885	0.530 ¹ ✓
T6	160 - 140	L2 1/2x2 1/2x3/16	12.706	6.303	152.8 K=1.00	0.902	-7.476	11.057	0.676 ¹ ✓
T7	140 - 120	L2 1/2x2 1/2x3/16	14.108	6.994	169.6 K=1.00	0.902	-7.889	8.981	0.878 ¹ ✓
T8	120 - 100	L3x3x3/16	15.529	7.705	155.1 K=1.00	1.090	-8.257	12.963	0.637 ¹ ✓
T9	100 - 80	L3x3x3/16	16.963	8.412	169.4 K=1.00	1.090	-8.830	10.877	0.812 ¹ ✓
T10	80 - 60	L3x3x1/4	18.408	9.124	184.9 K=1.00	1.440	-9.546	12.050	0.792 ¹ ✓
T11	60 - 40	L3x3x1/4	19.861	9.851	199.7 K=1.00	1.440	-9.968	10.338	0.964 ¹ ✓
T12	40 - 20	2L2 1/2x2 1/2x3/16x3/8	11.508	11.313	174.2 K=1.00	1.800	-11.195	16.484	0.679 ¹ ✓

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	Client	Vertical Bridge	Designed by	BSevier

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T13	20 - 0	ai/ri > 0.75(KL/r) _o - 290 2L2 1/2x2 1/2x3/16x3/8	12.195	12.003	184.8 K=1.00	1.800	-11.258	14.699	0.766 ¹ ✓
		ai/ri > 0.75(KL/r) _o - 329							✓

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T12	40 - 20	2L2x2x3/16x3/8	20.606	10.126	196.9 K=1.00	1.430	-8.053	10.418	0.773 ¹ ✓
T13	20 - 0	ai/ri > 0.75(KL/r) _o - 289 2L2x2x3/16x3/8	22.106	10.876	211.4 K=1.00	1.430	-8.645	9.048	0.956 ¹ ✓
		ai/ri > 0.75(KL/r) _o - 328							✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	4.163	4.017	140.3 K=1.00	0.621	-1.968	9.026	0.218 ¹ ✓

¹ P_u / φP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T12	40 - 20	L1 3/4x1 3/4x3/16	10.303	10.303	360.0 K=1.00	0.621	-0.010	1.372	0.007 ¹ ✓
T13	20 - 0	KL/R > 250 (C) - 296 L1 3/4x1 3/4x3/16	11.053	11.053	386.2 K=1.00	0.621	-0.009	1.192	0.008 ¹ ✓
		KL/R > 250 (C) - 335							✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation	Size	L	L _n	Kl/r	A	P _n	K	φ _{P_n}	Ratio P _n
T1	245 - 235	1 3/4	10.009	0.500	13.7	2.405	7.100	108.238	0.066	0.066
T2	235 - 220	2	15.014	0.500	12.0	3.142	38.126	141.372	0.270	0.270
T3	220 - 200	2 1/2	20.019	0.500	9.6	4.909	90.480	220.893	0.410	0.410
T4	200 - 180	2 3/4	20.019	0.500	8.7	5.940	135.650	267.281	0.508	0.508
T5	180 - 160	3	20.019	0.500	8.0	7.069	174.697	318.086	0.549	0.549
T6	160 - 140	3 1/4	20.019	0.500	7.4	8.296	210.233	373.310	0.563	0.563
T7	140 - 120	3 1/2	20.019	0.500	6.9	9.621	243.620	432.951	0.563	0.563
T8	120 - 100	3 1/2	20.019	0.500	6.9	9.621	275.498	432.951	0.636	0.636
T9	100 - 80	3 3/4	20.019	0.500	6.4	11.045	306.592	497.010	0.617	0.617
T10	80 - 60	4	20.019	0.500	6.0	12.566	337.014	565.487	0.596	0.596
T11	60 - 40	4	20.019	0.500	6.0	12.566	366.651	565.487	0.648	0.648
T12	40 - 20	4 1/4	20.019	0.500	5.7	14.186	395.481	638.381	0.620	0.620
T13	20 - 0	4 1/4	20.019	0.500	5.7	14.186	422.605	638.381	0.662	0.662

1 P_n / φ_{P_n} controls

Diagonal Design Data (Tension)

Section No.	Elevation	Size	L	L _n	Kl/r	A	P _n	K	φ _{P_n}	Ratio P _n
T1	245 - 235	L1 3/4x1 3/4x3/16	6.485	3.258	72.8	0.360	5.010	17.567	0.285	0.285
T2	235 - 220	L1 3/4x1 3/4x3/16	7.435	3.723	83.2	0.360	6.673	17.567	0.380	0.380
T3	220 - 200	L2x2x3/16	8.697	4.330	84.2	0.431	8.976	21.001	0.427	0.427
T4	200 - 180	L2x2x3/16	9.061	4.505	87.6	0.431	8.293	21.001	0.395	0.395

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Section No.	Elevation	Size	L	L _n	KI/r	A	P _n	K	Ratio $\frac{P_n}{\phi P_n}$
T5	180 - 160	L2 1/2x2 1/2x3/16	11.329	5.625	86.8	0.571	7.762	27.838	0.279 ↑
T6	160 - 140	L2 1/2x2 1/2x3/16	12.706	6.303	97.2	0.571	7.797	27.838	0.280 ↑
T7	140 - 120	L2 1/2x2 1/2x3/16	14.108	6.994	107.9	0.571	8.162	27.838	0.293 ↑
T8	120 - 100	L3x3x3/16	15.529	7.705	98.5	0.712	8.574	34.712	0.247 ↑
T9	100 - 80	L3x3x3/16	16.963	8.412	107.5	0.712	9.004	34.712	0.259 ↑
T10	80 - 60	L3x3x1/4	18.408	9.124	117.7	0.939	9.808	45.794	0.214 ↑
T11	60 - 40	L3x3x1/4	19.861	9.851	127.1	0.939	10.161	45.794	0.222 ↑
T12	40 - 20	2L2 1/2x2 1/2x3/16x3/8	11.508	11.313	174.5	1.139	11.230	55.529	0.202 ↑
T13	20 - 0	2L2 1/2x2 1/2x3/16x3/8 at/h > 0.75(KL/r) _o - 291	12.195	12.003	185.1	1.139	11.055	55.529	0.199 ↑

1 P_n / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L _n	KI/r	A	P _n	K	Ratio $\frac{P_n}{\phi P_n}$
T12	40 - 20	2L2x2x3/16x3/8	20.606	10.126	196.9	0.862	8.053	42.001	0.192 ↑
T13	20 - 0	2L2x2x3/16x3/8 at/h > 0.75(KL/r) _o - 292	22.106	10.876	211.5	0.862	8.645	42.001	0.206 ↑

1 P_n / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation	Size	L	L _n	KI/r	A	P _n	K	Ratio $\frac{P_n}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	4.163	4.017	89.8	0.360	2.050	17.567	0.117 ↑

1 P_n / φP_n controls

<p>tnxTower</p> <p>B+T Group 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p>Job</p> <p>ATS #A989 - Clementsville (Site# US-KY-5198)</p>	<p>Page</p> <p>32 of 32</p>
	<p>Project</p> <p>245' SST/37.294981, -85.090556</p>	<p>Date</p> <p>17:10:55 05/28/24</p>
	<p>Client</p> <p>Vertical Bridge</p>	<p>Designed by</p> <p>BSevier</p>

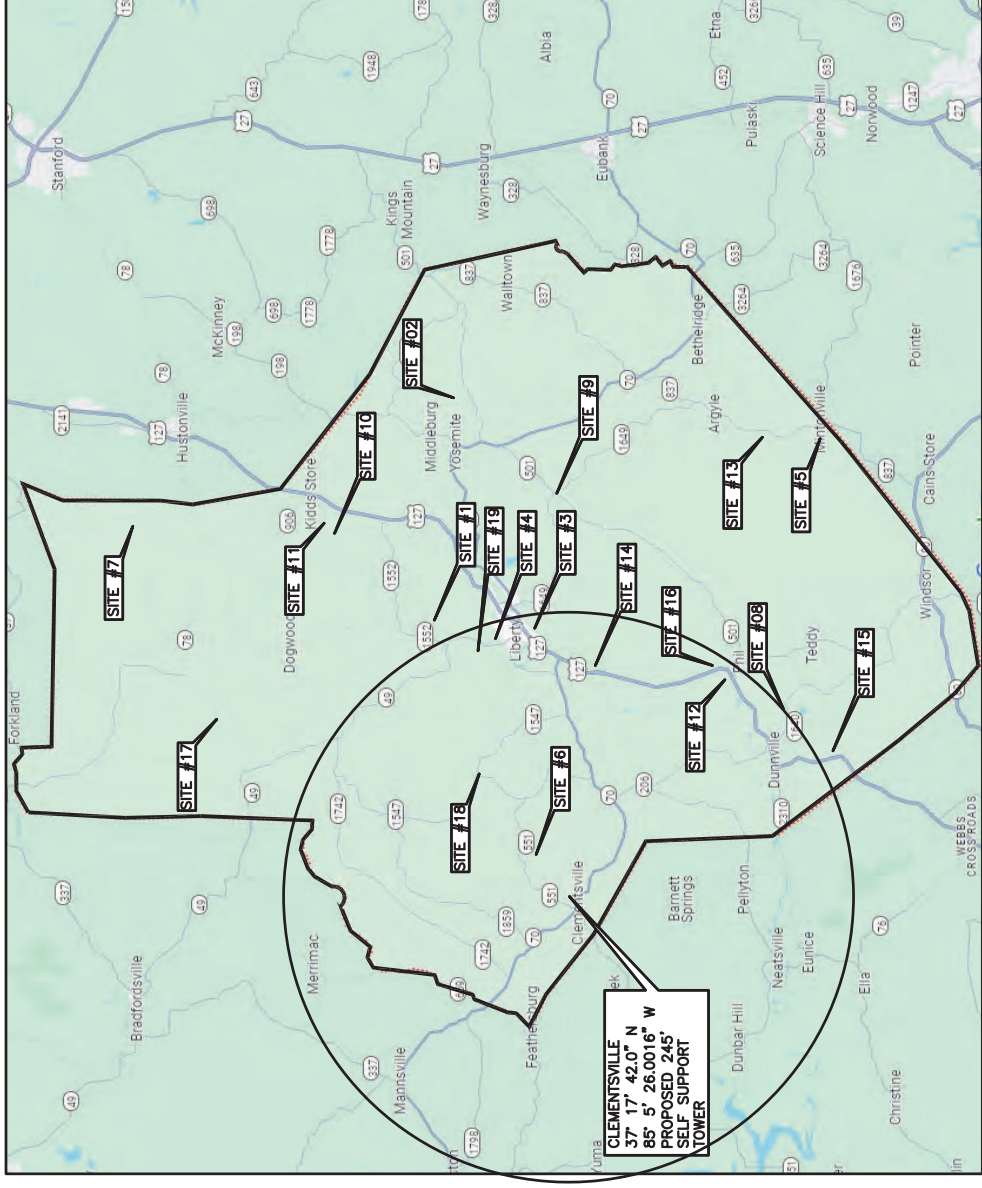
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	245 - 235	Leg	1 3/4	1	-9.649	35.601	27.1	Pass
T2	235 - 220	Leg	2	21	-42.135	56.401	74.7	Pass
T3	220 - 200	Leg	2 1/2	42	-98.163	120.108	81.7	Pass
T4	200 - 180	Leg	2 3/4	69	-149.459	161.540	92.5	Pass
T5	180 - 160	Leg	3	96	-194.021	208.347	93.1	Pass
T6	160 - 140	Leg	3 1/4	123	-234.977	260.312	90.3	Pass
T7	140 - 120	Leg	3 1/2	150	-273.915	317.273	86.3	Pass
T8	120 - 100	Leg	3 1/2	177	-311.649	317.273	98.2	Pass
T9	100 - 80	Leg	3 3/4	204	-348.904	379.106	92.0	Pass
T10	80 - 60	Leg	4	231	-386.213	445.717	86.7	Pass
T11	60 - 40	Leg	4	258	-423.161	445.717	94.9	Pass
T12	40 - 20	Leg	4 1/4	285	-454.962	517.034	88.0	Pass
T13	20 - 0	Leg	4 1/4	324	-489.485	517.034	94.7	Pass
T1	245 - 235	Diagonal	L1 3/4x1 3/4x3/16	9	-4.889	13.715	35.6	Pass
							52.2 (b)	
T2	235 - 220	Diagonal	L1 3/4x1 3/4x3/16	26	-6.299	10.506	60.0	Pass
							69.5 (b)	
T3	220 - 200	Diagonal	L2x2x3/16	43	-8.218	11.765	69.9	Pass
							83.6 (b)	
T4	200 - 180	Diagonal	L2x2x3/16	71	-7.545	8.951	84.3	Pass
T5	180 - 160	Diagonal	L2 1/2x2 1/2x3/16	98	-7.357	13.885	53.0	Pass
							59.6 (b)	
T6	160 - 140	Diagonal	L2 1/2x2 1/2x3/16	129	-7.476	11.057	67.6	Pass
T7	140 - 120	Diagonal	L2 1/2x2 1/2x3/16	156	-7.889	8.981	87.8	Pass
T8	120 - 100	Diagonal	L3x3x3/16	183	-8.257	12.963	63.7	Pass
T9	100 - 80	Diagonal	L3x3x3/16	210	-8.830	10.877	81.2	Pass
T10	80 - 60	Diagonal	L3x3x1/4	234	-9.546	12.050	79.2	Pass
T11	60 - 40	Diagonal	L3x3x1/4	261	-9.968	10.338	96.4	Pass
T12	40 - 20	Diagonal	2L2 1/2x2 1/2x3/16x3/8	290	-11.195	16.484	67.9	Pass
T13	20 - 0	Diagonal	2L2 1/2x2 1/2x3/16x3/8	329	-11.258	14.699	76.6	Pass
T12	40 - 20	Horizontal	2L2x2x3/16x3/8	289	-8.053	10.418	77.3	Pass
T13	20 - 0	Horizontal	2L2x2x3/16x3/8	328	-8.645	9.048	95.6	Pass
T1	245 - 235	Top Girt	L1 3/4x1 3/4x3/16	4	-1.968	9.026	21.8	Pass
T12	40 - 20	Inner Bracing	L1 3/4x1 3/4x3/16	296	-0.010	1.372	0.7	Pass
T13	20 - 0	Inner Bracing	L1 3/4x1 3/4x3/16	335	-0.009	1.192	0.8	Pass
							Summary	
							Leg (T8)	98.2 Pass
							Diagonal (T11)	96.4 Pass
							Horizontal (T13)	95.6 Pass
							Top Girt (T1)	21.8 Pass
							Inner Bracing (T13)	0.8 Pass
							Bolt Checks	83.6 Pass
							RATING =	98.2 Pass

RURAL CELLULAR
CORP D/B/A



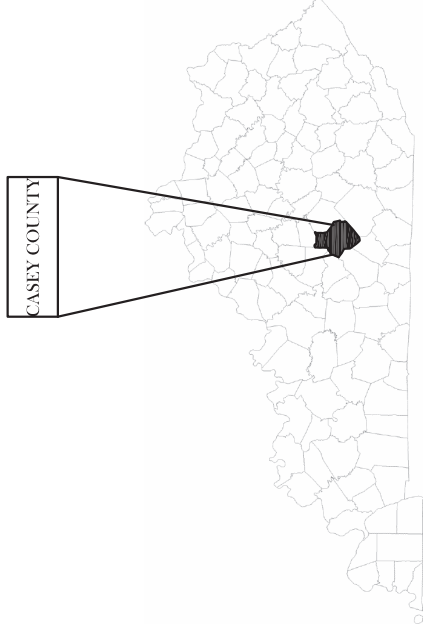
CITY OF LIBERTY,
CASEY COUNTY, KENTUCKY
VERIZON WIRELESS SITE
CLEMENTSVILLE
TOWER LOCATION EXHIBIT



CLEMENTSVILLE
37° 17' 42.0" N
85° 5' 26.0016" W
PROPOSED 245'
SELF SUPPORT
TOWER

MAP NOT TO SCALE

KENTUCKY



SITE INFORMATION:
CLEMENTSVILLE
340 CASEY CREEK ROAD,
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5198

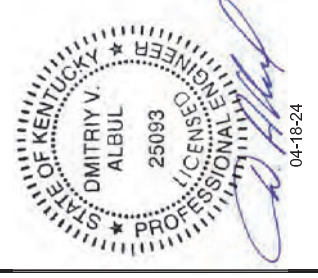
SITE NAME:
CLEMENTSVILLE

PID NUMBER: 16735947
DRAWN BY: RC
CHECKED BY: PL
DATE: 03.12.24

SHEET TITLE:
PSC MAP

SHEET NUMBER:
PSC-1
INK PLO & COMPANY REV 3 FINAL 10/16/23

REV.	DATE	DESCRIPTION
A	03/28/24	ISSUED FOR REVIEW
0	04/18/24	ISSUED FOR CONSTRUCTION



- SITE#1: FCC# 1042417, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC 37° 21' 23.0"N 084° 55' 13.0"W
- SITE#2: FCC# 1043074, GTE SOUTH INCORPORATED 37° 21' 27.0"N, 084° 47' 06.0"W
- SITE#3: FCC# 1043347, CROWN CASTLE SOUTH LLC 37° 18' 35.1"N, 084° 55' 42.3"W
- SITE#4: FCC# 1043976, TELECOMMUNICATIONS MANAGEMENT LLC D/B/A NEWWAVE COMMUNICATIONS 37° 19' 35.0"N, 084° 56' 17.0"W
- SITE#5: FCC# 1044043, KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA WKSO TV 37° 10' 03.0"N, 084° 49' 30.0"W
- SITE#6: FCC# 1044720, CNS MICROWAVE, LLC 37° 18' 36.0"N, 085° 03' 45.0"W
- SITE#7: FCC# 1044843, KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS 37° 31' 10.0N, 084° 52' 10.8"W
- SITE#8: FCC# 1232541, HEMPHILL CORPORATION 37° 11' 39.3"N, 084° 58' 48.8"W
- SITE#9: FCC# 1234122, EDUCATIONAL MEDIA FOUNDATION 37° 11' 24.3"N, 084° 52' 11.8"W
- SITE#10: FCC# 1234155, EAST KENTUCKY POWER COOPERATIVE, INC. 37° 17' 54.9"N, 084° 51' 11.5"W
- SITE#11: FCC# 1244845, COAIT LLC 37° 24' 08.4"N 084° 52' 12.5"W
- SITE#12: FCC# 1263764, SBA TOWERS III LLC 37° 13' 22.2"N 084° 57' 39.5"W
- SITE#13: FCC# 1264776, GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC 37° 12' 15.8"N 084° 49' 13.1"W
- SITE#14: FCC# 1264914, CELLO PARTNERSHIP 37° 17' 03.1"N 084° 57' 12.1"W
- SITE#15: FCC# 1275314, CELLO PARTNERSHIP 37° 10' 31.0"N 085° 00'11.5"W
- SITE#16: FCC# 1310312, UNITI TOWERS 37° 13' 26.7"N 084° 57' 18.9"W
- SITE#17: FCC# 1312991, CITYSWITCH II, LLC 37° 27' 17.6"N 084° 59' 26.1"W
- SITE#18: FCC# 1313732, CTI TOWERS ASSETS II, LLC 37° 20' 08.6"N 085° 00' 58.0"W
- SITE#19: FCC# 1321933, CASEY, COUNTY OF, 37° 20' 07.6"N 084° 56' 32.4"W



Mail Processing Center
 Federal Aviation Administration
 Southwest Regional Office
 Obstruction Evaluation Group
 10101 Hillwood Parkway
 Fort Worth, TX 76177

Aeronautical Study No.
 2024-ASO-4942-OE

Issued Date: 05/14/2024

Julie Heffernan
 The Towers, LLC
 7500 Park of Commerce Dr
 Suite 200
 Boca Raton, FL 33487

**** 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 US-KY-5198 Clementsville
 Location: LIBERTY, KY
 Latitude: 37-17-41.93N NAD 83
 Longitude: 85-05-26.00W
 Heights: 972 feet site elevation (SE)
 255 feet above ground level (AGL)
 1227 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 11/14/2025 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. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2024-ASO-4942-OE.

Signature Control No: 614402396-621514288

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.

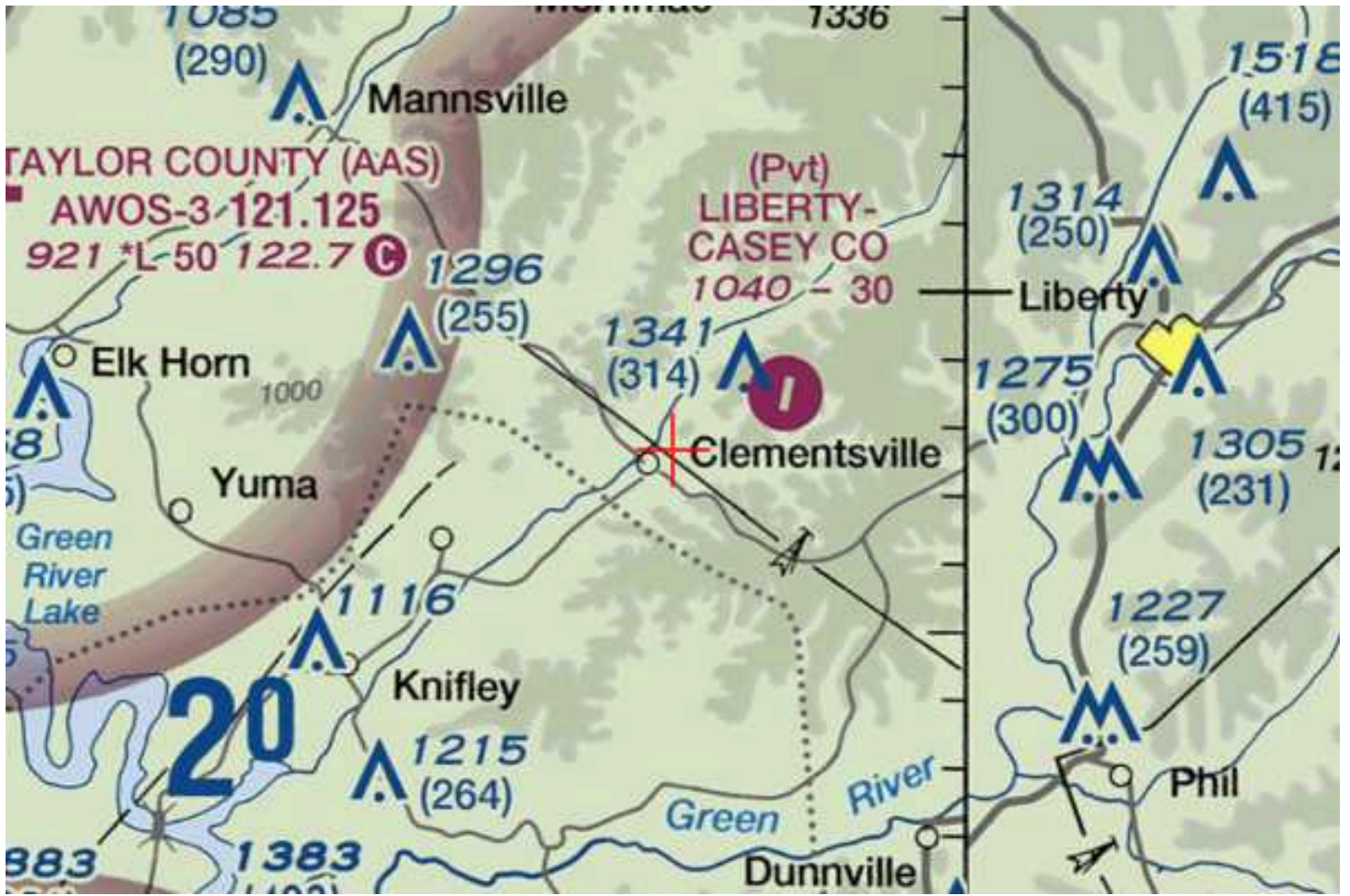
Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

new cell site

Frequency Data for ASN 2024-ASO-4942-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
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







Proposed Case for : 2024-ASO-4942-OE

For information only.

This proposal has not yet been studied. Study outcomes will be posted at a later date. Public comments are not requested, and will not be considered at this time.

Overview				
Study (ASN): 2024-ASO-4942-OE	Received Date: 03/01/2024			
Prior Study:	Entered Date: 03/01/2024			
Status: Work In Progress	Map: View Map			
Construction Info				
Notice Of: CONSTR	Structure Summary			
Duration: PERM (Months: 0 Days: 0)	Structure Type: Antenna Tower			
Work Schedule:	Structure Name: US-KY-5198 Clementsville			
	FCC Number:			
Structure Details				
Latitude (NAD 83): 37° 17' 41.93" N	Height and Elevation			
Longitude (NAD 83): 85° 05' 26.00" W				
Datum: NAD 83	Site Elevation: Proposed 972			
City: LIBERTY	Structure Height: 255			
State: KY	Total Height (AMSL): 1227			
Nearest County: Casey				
Frequencies				
Low Freq	High Freq	Unit	ERP	Unit
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

[Back to Search Result](#)
[Previous](#) [Next](#)

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
- (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.

Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Dept. of Aviation, ATTN: Airport Zoning Commission, 90 Airport Drive, Frankfort KY 40601. For questions, telephone 502-782-4043.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:

Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)

Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)

Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.

Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.

Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

PENALTIES

1. Persons failing to comply with the Airport Zoning Commission statutes and regulations are liable for a fine or imprisonment as set forth in KRS 183.990(3).
2. Applicants are cautioned: Noncompliance with Federal Aviation Administration Regulations may provide for further penalties.



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Vertical Bridge REIT, LLC		PHONE 561-406-4015	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 750 Park of Commerce Drive, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
APPLICANT'S REPRESENTATIVE (name) Gretchen Blanton		PHONE 704-472-0374	FAX		
ADDRESS (street) 750 Park of Commerce Drive, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <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		MARKING/PAINTING/LIGHTING PREFERRED <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			
LATITUDE 37°17'41.93"		LONGITUDE - 85°05'26.00"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Liberty County Casey		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT AAS Taylor County			
SITE ELEVATION (AMSL, feet) 972		TOTAL STRUCTURE HEIGHT (AGL, feet) 255		CURRENT (FAA aeronautical study #) 2024-ASO-4942-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1,227				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 11.13 Nautical Miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) SW					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) See attached					
DESCRIPTION OF PROPOSAL 255' AGL Self-Support Tower					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes					
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.)					
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.)					
NAME Gretchen Blanton	TITLE Project Manager	SIGNATURE <i>Gretchen Blanton</i>		DATE 03/11/2024	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved	SIGNATURE			DATE	
<input type="checkbox"/> Disapproved					

VERTICAL BRIDGE

1A Report

Date: April 4, 2023
FSTAN Project No: 22-11664
Revised: February 15, 2024

Site Name:
Site No:

CK CLEMENTSVILLE
725002

For Aeronautical Study No.

Location: City
 County

Liberty, KY
Casey

U.S.G.S. Quadrangle:

Clements ville, KY

(NAD 27) LATITUDE
 LONGITUDE

37° 17' 41.68" N (37.294911)
85° 05' 26.15" W (-85.090597)

(NAD 83) LATITUDE
 LONGITUDE

37° 17' 41.93" N (37.294981)
85° 05' 26.00" W (-85.090556)

SITE ELEVATION (NAVD 88)

972.4' ± AMSL

I Certify, to the best of my knowledge and belief, that the horizontal and vertical datum as established from the referenced U.S.G.S. Quadrangle, is accurate to 1A Reporting requirements of ± 20 feet horizontally and ± 3 feet vertically.

The horizontal datum (coordinates) are in terms of the North American Datum of 1927 (NAD 27) and 1983 (NAD 83) and expressed as degrees, minutes and seconds.

The vertical datum (heights) are in terms of the National Geodetic Vertical Datum of 1988 and are determined to the nearest foot.

Kentucky State Plane Coordinates (Single Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "DH7217", CORS ID "KYCP", designated as CAMPBELLSVILLE U CORS ARP".

CONSULTANT



Frank L. Sellinger, II, KY PLS No. 3282
FSTAN Land Surveyors
1012 South 4th Street, Louisville, KY 40203
Phone: 502-636-5111 Fax: 502-636-5263





KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Department of Aviation, 90 Airport Road
Frankfort, KY 40601
www.transportation.ky.gov
502-564-0151

JIM GRAY
Secretary

APPROVAL OF APPLICATION

Thursday, April 11, 2024

Vertical Bridge REIT, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, FL 33487

AS-2024-033-53KT **Liberty-Casey County Airport**

APPLICANTS NAME: Vertical Bridge REIT, LLC

NEAREST CITY: Liberty, KY

LATITUDE/LONGITUDE: 37°17'41.93" N, 85°05'26" W

HEIGHT (In Feet): 255' AGL /1,227' AMSL

CONSTRUCTION PROPOSED: Telecommunications Tower

NOTES: The tower location is approximately 11 nm SW of 53KT and exceeds 200 ft AGL. It penetrates no protected air surfaces.

FAA DETERMINATION: 2024-ASO-4942-OE. Not submitted yet.

This letter is to notify you that the Kentucky Airport Zoning Commission approved your permit application for the construction of Structures at the Location, Coordinates, and Height as indicated above. Construction must comply with requirements, if any, listed in the FAA Determination.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

An email of this letter was also sent to your representative, Gretchen Blanton, at Gretchen.Blanton@verticalbridge.com. If you have any questions, please contact us.

Respectfully,

Anthony Adams

Airport Zoning Commission Administrator
KY Department of Aviation
502-564-0151 Office
AirportZoning@ky.gov



DELTA OAKS GROUP

GEOTECHNICAL INVESTIGATION REPORT

May 8, 2024

Prepared For:

Vertical Bridge



**Clementsville
US-KY-5198**

Proposed 245-Foot Self-Supporting Tower

340 Casey Creek Road, Liberty (Casey County), Kentucky 42539
Latitude N 37° 17' 42.0" Longitude W 85° 05' 26.0"

Delta Oaks Group Project GEO24-21559-08
Revision 0

geotech@deltaoaksgroup.com

Performed By:

Sarah C. Russek, P.E.

Reviewed By:

Joseph V. Borrelli, Jr., P.E.





DELTA OAKS GROUP

INTRODUCTION

This geotechnical investigation report has been completed for the proposed 245-foot self-supporting tower located at 340 Casey Creek Road in Liberty (Casey County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located near the top of a hill. Topography is generally flat across the tower compound and gradually sloping along the proposed access road.

REFERENCES

- Civil Drawings, provided by Vertical Bridge, dated March 12, 2024
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the auger refusal depth of 17.5 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Upon encountering auger refusal, 20.0 feet of rock coring was conducted in accordance with ASTM D 2113. Please note that upon completion of the boring, a metal washer from the auger (approximately 3 to 4 inches in size) was lost at the bottom of the borehole and was unable to be recovered.

Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



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SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Fill material was not encountered during the subsurface field investigation.

SOIL

The residual soil encountered in the subsurface field investigation began at the existing ground surface in the boring and consisted of silty sand underlain by lean clay. The materials ranged from a medium stiff to very stiff consistency and a loose relative density.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 17.5 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 17.5 feet bgs. The rock can be described as highly fractured, moderately to highly weathered, hard siltstone underlain by highly fractured, moderately weathered to highly weathered, soft to moderately hard mudstone. The driller noted the presence of interbedded soil layers that were not recovered with the rock sample during coring operations.

SUBSURFACE WATER

Subsurface water was not encountered during the subsurface investigation. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Casey County, Kentucky is 30 inches (2.5 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 3,220 ohms-cm on the sample taken at a depth of 3.5 feet bgs. Resistivity testing could not be completed on the sample above due to high gravel content.



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FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a shallow foundation or drilled shaft foundations for the proposed structure. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 - 3.0	SM	110	30	0
	3.0 - 8.0	CL	120	0	1,400
	8.0 - 13.0	CL	120	0	2,400
	13.0 - 17.5	CL	120	0	800
	17.5 - 23.0	Siltstone (with interbedded soil layers)	140	0	4,500
	23.0 - 37.5	Mudstone (with interbedded soil layers)	140	0	4,000

- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum.
- The values provided for phi angle and cohesion should be considered ultimate.



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SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	9,670
		4.0	10,020
		5.0	10,360
		6.0	10,710
	10.0 x 10.0	3.0	9,150
		4.0	9,330
		5.0	9,500
		6.0	9,670
	15.0 x 15.0	3.0	8,510
		4.0	8,160
		5.0	7,800
		6.0	7,440
	20.0 x 20.0	3.0	7,620
		4.0	7,350
		5.0	7,080
		6.0	6,810
	25.0 x 25.0	3.0	7,080
		4.0	6,870
		5.0	6,650
		6.0	6,440

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.35 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 2.5 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



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ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	110	30	0	0.00	3.00	0.00
Bottom	2.5	110	30	0	275.00	3.00	412.50
Top	2.5	110	30	0	275.00	3.00	825.00
Bottom	3.0	110	30	0	330.00	3.00	990.00
Top	3.0	120	0	1,400	330.00	1.00	3130.00
Bottom	8.0	120	0	1,400	930.00	1.00	3730.00
Top	8.0	120	0	2,400	930.00	1.00	5730.00
Bottom	10.0	120	0	2,400	1170.00	1.00	5970.00



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SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 - 3.0	--	--	--
	3.0 - 8.0	14,160	760	760
	8.0 - 13.0	9,060	1,320	1,320
	13.0 - 17.5	30,090	430	430
	17.5 - 23.0	35,410	2,190	2,190
	23.0 - 37.5	35,260	2,040	2,040

- The top 3.0 feet of soil should be ignored due to the frost penetration and the potential soil disturbance during construction.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



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CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the *STRUCTURAL FILL PLACEMENT* section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.



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DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



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QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary.

Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by Vertical Bridge. No warranty, expressed or implied, is presented.

Delta Oaks Group appreciates the opportunity to be of service for this Geotechnical Investigation Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



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APPENDIX



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BORING PLAN



EXHIBIT I DIRECTIONS TO SITE:

FROM 625 CAMPBELLSVILLE ST, LIBERTY, KY 42539: HEAD NORTHWEST ON CAMPBELLSVILLE ST TOWARD COURT HOUSE SQUARE (2.3 MILES), TURN RIGHT ONTO KY-70W (8.9 MILES), TURN RIGHT ONTO STATE HWY 551 (0.3 MILES), ARRIVE ON RIGHT AT 340 CASEY CREEK ROAD, LIBERTY, KY 42539.

PREPARED BY LAB (248) 705-9212

Vertical Bridge File #: US-KY-5198 Tower Title File #: VTB-158747-C

TOWER TITLE

Tower Title & Closing

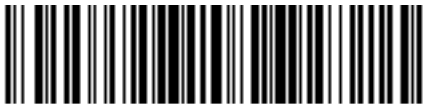
18 Imperial Place, Courtyard

Providence, RI 02903

(844) 944-2876

Document:

RECORDING



VTB-158747-C

[RECORDED DOCUMENT BEGINS ON NEXT PAGE]

(Above 3" Space for Recorder's Use Only)

Upon Recording Return to:

The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487
Attn: Daniel Marinberg

Site Name: Clementsville
Site Number: US-KY-5198
Commitment #: VTB-158747-C

Previous deed info:
Bk 289 Pg 161
Oct 25, 2013

MEMORANDUM OF OPTION TO LEASE

This Memorandum of Option to Lease (this "**Memorandum**") evidences an Option and Lease Agreement (the "**Agreement**") between **Mark Woodrum and Kirsten Woodrum**, husband and wife, ("**Landlord**"), whose address is 1054 Murphy Wolford Rd Liberty, Kentucky 42539, and **The Towers, LLC**, a Delaware limited liability company, whose mailing address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487 ("**Tenant**"), dated November 6th, 2023 (the "**Effective Date**"), for a portion (the "**Premises**") of the real property (the "**Property**") described in **Exhibit A** attached hereto.

Pursuant to the Agreement, Landlord has granted Tenant an exclusive option to lease the Premises (the "**Option**"). The Option commenced as of the Effective Date and shall continue in effect for a period of two (2) years from the Effective Date.

Landlord ratifies, restates and confirms the Agreement and, upon exercise of the Option, shall lease to Tenant the Premises, subject to the terms and conditions of the Agreement. The Agreement provides for the lease by Landlord to Tenant of the Premises for an initial term of five (5) years with nine (9) renewal option(s) of an additional five (5) years each, and further provides:

1. Landlord may assign the Agreement only in its entirety and only to a purchaser of the fee interest of the Property;
2. Under certain circumstances, Tenant has a right of first refusal to acquire the Premises or the Property from Landlord;
3. Landlord may not subdivide the Property without Tenant's prior written consent; and

4. The Agreement restricts Landlord's ability to utilize, or allow the utilization of the Property or real property owned by Landlord which is adjacent or contiguous to the Property for the construction, operation and/or maintenance of the Communications Facilities (as defined in the Agreement).

This Memorandum is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement. In the event of a conflict between the provisions of this Memorandum and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of Landlord and Tenant and shall inure to the benefit of their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK, SIGNATURES
BEGIN ON NEXT PAGE

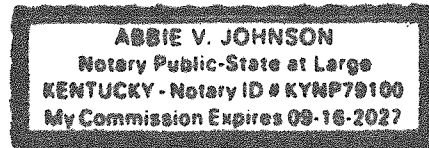
IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF OPTION TO LEASE effective as of the date last signed by a party hereto.

<p>WITNESSES:</p> <p><u>Sarah Stevens</u> Name: <u>Sarah Stevens</u></p> <p><u>Melissa Cochran</u> Name: <u>Melissa Cochran</u></p>	<p>LANDLORD:</p> <p><u>Mark Woodrum</u> Name: <u>Mark Woodrum</u></p> <p>Date: <u>10-31-23</u></p> <p><u>Kirsten Woodrum</u> Name: <u>Kirsten Woodrum</u></p> <p>Date: <u>10-31-23</u></p>
--	---

STATE OF Kentucky
COUNTY OF Casey

The foregoing instrument was acknowledged before me this 31st day of October 2023 by Mark Woodrum and Kirsten Woodrum.

Abbie Johnson, #KYNP 79100
Notary Public
Print Name: Abbie Johnson
My Commission Expires: 9-16-2027



(Tenant's Signature Page to Memorandum of Option to Lease)

<p>WITNESSES:</p> <p><u>Edward Dovic</u> Name: <u>Edward Dovic</u></p> <p><u>ALL</u> Name: <u>Alex Greenberg</u></p>	<p>TENANT:</p> <p>The Towers, LLC a Delaware limited liability company</p> <p>By: <u>[Signature]</u></p> <p>Name: <u>Ariel Rubin</u> Title: <u>Vice President of Tower Development</u></p> <p>Date: <u>11.6.2023</u></p>
---	---

STATE OF FLORIDA

Leasing Ops ^{DS} 29

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this November 6, 2023
by Ariel Rubin (name of signatory), VPTD
(title of signatory) of The Towers, LLC, a Delaware limited liability company, on behalf of the company.

[Signature]
Notary Public

Print Name: Vanessa Sanchez

My Commission Expires: April 20, 2025

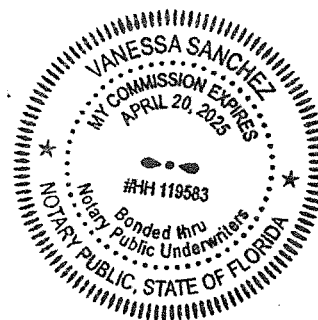


EXHIBIT A

(TO MEMORANDUM OF OPTION TO LEASE)

The Property

(may be updated by Tenant upon receipt of final legal description from title)

Tract 1

A certain tract or parcel of land lying on the waters of Casey Creek and on the North side of Kentucky Highway #70 in Casey County, Commonwealth of Kentucky and being more accurately described as follows:

Beginning at an oak tree on the North side of Woods Creek Road, corner of the Marion Wethington property; thence with the North side of said Woods Creek Road as follows. North 80 degrees 02 minutes West 198.4 feet; North 78 degrees 10 minutes West 223.6 feet; North 81 degrees 34 minutes West 111.8 feet; North 86 degrees 05 minutes West 78.7 feet; South 87 degrees 37 minutes West 77.3 feet; South 82 degrees 52 minutes West 68.9 feet; South 79 degrees 13 minutes West 52.9 feet; South 79 degrees 44 minutes West 75.6 feet; South 83 degrees 57 minutes West 93.2 feet; South 89 degrees 53 minutes West 101.7 feet; North 85 degrees 29 minutes West 91.9 feet; North 81 degrees 19 minutes West 115.7 feet to an iron pin on the North side of said Woods Creek Road, corner of the Howard Gabehart property (Deed Book 75, Page 520); thence with the lines of said Gabehart property as follows: North 83 degrees 08 minutes East 420.3 feet to an iron pin; North 75 degrees 08 minutes East 235.0 feet to an iron pin; North 69 degrees 53 minutes East 480.0 feet to a hickory tree, corner of said Gabehart property and the Wethington property; thence with the line of the Wethington property South 04 degrees 09 minutes East 674.6 feet to the beginning, containing 4.7 acres, more or less.

Exception: there is excepted from the hereinabove described real property and not conveyed herein the following tract or parcel of land.

Description of Exception: Beginning at an oak tree on the North side of the Woods Creek Road, a corner to Marion Wethington property; thence North 2 degrees West 200 feet to a stake; thence North 57 degrees West 118 feet to an ash; thence South 63 degrees West 117.5 feet to a double ash; thence South 53 degrees West 133 feet to a mulberry; thence South 54-1/2 degrees West 83 feet to a stake; thence South 80 degrees East 397 feet to the beginning.

Tract 2

A certain tract or parcel of land lying and being in Casey County, Kentucky, on the waters of Casey Creek and being more particularly described as follows:

Beginning at a stake in line of James Wethington and Howard Gabehart. This stake is located S. 20-1/2 E. 6 rods and 22 links from a walnut old corner. This road is to be twenty feet wide, 10 feet on each side of the following center line: Beginning at the stake mentioned above; thence S. 46-3/4 W. 15-3/5 rods to the edge of right of way of Highway No. 551. Survey of a Roadway, James Wethington to Larry Stafford, September 19, 1977, by E. T. Cooper, R.L.S. No. 1144.

Tract 3

One certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Woods Creek in said County and State and being more particularly described by metes and bounds as follows, to-wit:

Beginning at a point in old road bed, where once stood a sugar tree; thence N. 20-1/2 E. 40 rods to an elm; thence N. 31-1/2 E. 8 poles to two beeches; thence N. 50 degrees 48 feet E. 41-4/5 poles to a beech in Verlin Wethington's line; thence with said line S. 47-1/2 E. 56-2/5 rods to a stake; thence S. 20 degrees 46 feet W. 19-4/5 rods to a black oak; thence S.

67-3/4 W. 29-3/4 rods to a stone, with hickory pointer; S. 73 W. 14-3/5 rods to a black oak; S. 81 W. 31 rods and 3 links to a stone at edge of road; thence with old road N. 67-3/4 W. 15-4/5 rods to the beginning, containing 20 acres, more or less.

Exclusions: there is excluded from the above property the following tract of land:

Exclusion No. 1: a certain tract or parcel of land lying and being in Casey County, Kentucky, and on the waters of Woods Creek in said County and State and being more particularly described by metes and bounds as follows, to-wit:

Beginning at a walnut, formerly an elm, corner to James M. Wethington; thence S. 86-1/4 degrees E. 2 rods to the branch; thence up the branch as it meanders with the following calls: N. 61-1/2 degrees E. 4 rods; N. 83 degrees E. 4-1/2 rods; N. 57 degrees E. 6 rods and 3 links; N. 82 degrees E. 3 rods and 2 links; N. 55 degrees E. 5 rods and 4 links; N. 49-1/2 degrees E. 6 rods and 4 links; N. 46-3/4 degrees E. 6 rods and 7 links; N. 37 degrees E. 14-1/2 rods to a stake in old line; thence with old lines courses reversed N. 45-1/2 degrees W. with Vertin Wethington's line 3 rods and 17 links to a beech; thence S. 52-3/4 degrees W. 41-4/5 poles in two beeches; thence S. 33-1/2 degrees W. 8 poles to the beginning, containing 2.05 acres, more or less. Surveyed by E. T. Cooper, Reg. Land Surveyor No. 1144.

Access and utilities serving the Premises (as defined in the Agreement) includes all easements of record as well as that portion of the Property designated by Landlord and Tenant for Tenant (and Tenant's guests, agents, customers, subtenants, licensees and assigns) ingress, egress, and utility purposes to and from a public right-of-way.

Notification List with PVA Verification

Parcel 013-03
 WOODRUM MARK
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

qPublic.net Case County, KY PVA Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number: 013-03
 Account Number: 32671
 Location Address: 0
 Description: HWY 551
 Class: Farm
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner: [WOODRUM MARK](#)
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

Land Characteristics


Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
10/23/2013	\$0		289-161	WOODRUM MARK	WOODRUM SHEILA R
7/25/2008	\$0		258-014	WOODRUM MARK	ALONZO ANDREW & CARISSA

Information



Casey County, KY
 133 Courthouse Square
 Liberty, KY 42539

Property Valuation
 Administrator
 Brad Johnson
 606-787-7621

Announcements

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Parcel 013-02
 WESLEY EDWIN BLAKE & JENNY L
 4106 TENNESSE RIDGE RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number: 013-02
 Account Number: 40682
 Location Address: CASEY CREEK RD 352
 Description: HWY 551
 Class: Residential
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner: [WESLEY EDWIN BLAKE & JENNY L](#)
 4106 TENNESSE RIDGE RD
 LIBERTY, KY 42539

Land Characteristics

Valuation



Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
8/9/2022	\$0	Close Relative Sale	341-714	WESLEY EDWIN BLAKE & JENNY L	GARRETT TERESA

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 133 Courthouse Square
 Liberty, KY 42539

Property Valuation
 Administrator
 Brad Johnson
 606-787-7621

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Parcel 013-02A
 WOODRUM MARK A & KIRSTEN ANNE
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Information

Summary

Parcel Number: 013-02A
 Account Number: 41122
 Location Address: CASEY CREEK RD
 Description: (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 00.00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner
 WOODRUM MARK A & KIRSTEN ANNE
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
2/1/2023	\$6,000	Expansion Sale	344-667	WOODRUM MARK A & KIRSTEN ANNE	WOLFORD SANDRA ESTATE
8/1/1995	\$0		173-089	WOLFORD DOUG & SANDRA	MONDAY MARJORIE

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 133 Courthouse Square
 Liberty, KY 42539

Property Valuation Administrator
 Brad Johnson
 606-787-7621

Announcements

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Parcel 012-36D
 WOODRUM MARK
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Information

Summary

Parcel Number: 012-36D
 Account Number: 32663
 Location Address: CASEY CREEK RD
 Description: CASEY CR (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 00.00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner
[WOODRUM MARK](#)
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
10/23/2013	\$0		289-161	WOODRUM MARK	WOODRUM SHELIA R
1/1/1989	\$0		143-036	WOODRUM MARK	JANET WETHINGTON

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Parcel 012-36
 WOODRUM MARK
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number: 012-36
 Account Number: 32664
 Location Address: CASEY CREEK RD 118
 Description: CASEY CREEK RD
 [Note: Not to be used on legal documents]
 Class: Residential
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner:
 WOODRUM MARK
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539

Land Characteristics

Valuation


Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book Page	Grantee	Grantor
10/23/2013	\$0		289-161	WOODRUM MARK	WOODRUM SHEILA R
3/1/2006	\$20,100	Arms-Length Transaction	240-569	WOODRUM MARK & SHEILA	SMITH JANET W

Information



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Parcel 12-30
 WOODRUM VIVA & CLEMENT
 1175 CASEY CREEK RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number: 012-30
 Account Number: 32674
 Location Address: CASEY CREEK RD 1175
 Description: POSSUM TROT
 [Note: Not to be used on legal documents]
 Class: Farm
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner:
 WOODRUM VIVA & CLEMENT
 1175 CASEY CREEK RD
 LIBERTY, KY 42539

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book Page	Grantee	Grantor
10/1/2005	\$228,500	Close Relative Sale	238-024	WOODRUM VIVA & CLEMENT	WOODRUM EDITH HEIRS

Information



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Parcel 12-41
 WOODRUM CLEMENT & VIVA
 1175 CASEY CREEK RD
 LIBERTY, KY 42539-

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Summary

Parcel Number: 012-41
 Account Number: 35045
 Location Address: CASEY CREEK RD 1036 HWY 551
 Description: (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner: WOODRUM CLEMENT & VIVA
 1175 CASEY CREEK RD
 LIBERTY, KY 42539-

Land Characteristics


Valuation

Taxes


Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/6/2017	\$26,500	Master Commissioner	313-408	WOODRUM CLEMENT & VIVA	HAMM DOROTHY EILEEN ESTATE
11/6/2017	\$11,500	Master Commissioner	313-393	WOODRUM CLEMENT & VIVA	HAMM CLIFFORD HAROLD ESTATE



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Parcel 12-38
 CLEMENTS JODY & FAYE
 960 CASEY CREEK RD
 LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number: 012-38
 Account Number: 24058
 Location Address: CASEY CREEK RD 960 HWY 551
 Description: (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 00 00
 Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner: CLEMENTS JODY & FAYE
 960 CASEY CREEK RD
 LIBERTY, KY 42539

Land Characteristics


Valuation

Taxes


Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
3/1/2001	\$35,000	Arms-Length Transaction	204-549	CLEMENTS JODY & FAYE	WETHINGTON LAWRENCE T & BRENDA



Information



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 133 Courthouse Square
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Parcel 12-37
DERRINGER ROGER
892 CASEY CREEK RD
LIBERTY, KY 42539

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Summary

Parcel Number	012-37
Account Number	26649
Location Address	CASEY CREEK RD 892
Description	HWY 551 <small>(Note: Not to be used on legal documents)</small>
Class	Residential
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
DERRINGER ROGER
892 CASEY CREEK RD
LIBERTY, KY 42539

Land Characteristics

Valuation

Taxes

Information



Casey County, KY
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Property Valuation
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Announcements

Parcel 012-36C
WETHINGTON JOSEPH GARY & BELIN
909 CASEY CREEK
LIBERTY, KY 42539

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Summary

Parcel Number	012-36C
Account Number	32283
Location Address	CASEY CREEK RD 909
Description	HWY 551 <small>(Note: Not to be used on legal documents)</small>
Class	Residential
Tax District	00 00
Rate Per Thousand	9.7600

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Owner

Primary Owner
WETHINGTON JOSEPH GARY & BELIN
909 CASEY CREEK
LIBERTY, KY 42539

Land Characteristics

Valuation

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Parcel 12-35
WOODRUM BRIAN & VANESSA
133 RAYMOND NOEL RD
LIBERTY, KY 42539-

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number	012-35
Account Number	34896
Location Address	GUM LICK RD 692
Description	CASEY CR <small>(Note: Not to be used on legal documents)</small>
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
[WOODRUM BRIAN & VANESSA](#)
133 RAYMOND NOEL RD
LIBERTY, KY 42539-

Land Characteristics

Valuation

Information



Casey County, KY
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Announcements

Parcel 013-01A
WOLFORD SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Summary

Parcel Number	013-01A
Account Number	32626
Location Address	GUM LICK RD
Description	GUM LICK <small>(Note: Not to be used on legal documents)</small>
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

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Owner

Primary Owner
[WOLFORD SANDRA ESTATE](#)
12993 W KY 70
LIBERTY, KY 42539

Land Characteristics

Valuation

No Record Views Available

Information



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Announcements

Parcel 12-36B
WOODRUM CLEMENT
1175 CASEY CREEK ROAD
LIBERTY, KY 42539

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- Search
- Results
- Report**
- Sales Search
- Sales List
- Sales Results
- Tax Estimator
- Home

Summary

Parcel Number	012-36B
Account Number	32651
Location Address	0
Description	CASEY CR <small>(Note: Not to be used on legal documents)</small>
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

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Owner

Primary Owner
[WOODRUM CLEMENT](#)
1175 CASEY CREEK ROAD
LIBERTY, KY 42539

Land Characteristics

Valuation



Information



Casey County, KY
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Property Valuation
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Announcements

Parcel 013-18
WOLFORD SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539-

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- Results
- Report**
- Sales Search
- Sales List
- Sales Results
- Tax Estimator
- Home

Summary

Parcel Number	013-18
Account Number	33966
Location Address	0
Description	HWY 70 <small>(Note: Not to be used on legal documents)</small>
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

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Owner

Primary Owner
[WOLFORD SANDRA ESTATE](#)
12993 W KY 70
LIBERTY, KY 42539-

Land Characteristics

Valuation



Information



Casey County, KY
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No Record Views Available

Parcel 103-04B
ARCHULETA CONNIE LYNN
50 GABEHART ST
LIBERTY, KY 42539

 Casey County, KY PVA

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home



Summary

Parcel Number	013-04B
Account Number	41720
Location Address	GABEHART ST 50
Description	HWY 70
	(Note: Not to be used on legal documents)
Class	Farm
Tax District	0000
Rate Per Thousand	9.7600

[View Map](#)


Owner

Primary Owner
ARCHULETA CONNIE LYNN
50 GABEHART ST
LIBERTY, KY 42539

Land Characteristics

Valuation

Information



Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
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Announcements

Parcel 013-04
ALONZO ANDREW & CARISSA
3233 WOODS CREEK RD
LIBERTY, KY 42539

 Casey County, KY PVA

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Summary

Parcel Number	013-04
Account Number	24915
Location Address	WOODS CREEK RD
Description	HWY 70
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	0000
Rate Per Thousand	9.7600

[View Map](#)


Owner

Primary Owner
[ALONZO ANDREW & CARISSA](#)
3233 WOODS CREEK RD
LIBERTY, KY 42539

Land Characteristics

Valuation

Information



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Announcements

Parcel 013-04A
WETHINGTON JAMES L & MARSHA
4338 WOODS CREEK RD
LIBERTY, KY 42539

 Casey County, KY PVA

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Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Information

Summary

Parcel Number	013-04A
Account Number	32259
Location Address	WOODS CREEK RD 4338
Description	HWY 70
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
WETHINGTON JAMES L & MARSHA
4338 WOODS CREEK RD
LIBERTY, KY 42539

Land Characteristics

Valuation

Casey County, KY
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Property Valuation
Administrator
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Parcel 13-06
WETHINGTON WETHINGTON & WETHINGTON
BEVERLY-BOBBY & SHELIA-SANDRA
5769 KY 551
LIBERTY, KY 42539

 Casey County, KY PVA

Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Information

Summary

Parcel Number	013-06
Account Number	40566
Location Address	OLD WOODS CREEK RD 600
Description	
	(Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
[WETHINGTON WETHINGTON & WETHINGTON](#)
BEVERLY-BOBBY & SHELIA-SANDRA
5769 KY 551
LIBERTY, KY 42539

Land Characteristics

Valuation

Casey County, KY
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Liberty, KY 42539

Property Valuation
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Announcements


Parcel 13-05
WETHINGTON BOBBY
959 GUM LICK RD
LIBERTY, KY 42539

 Casey County, KY PVA

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Information



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Property Valuation
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Announcements

Summary

Parcel Number	013-05
Account Number	38143
Location Address	HAYES HOLLOW RD
Description	(Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
[WETHINGTON BOBBY](#)
959 GUM LICK RD
LIBERTY, KY 42539

Land Characteristics

Valuation

No Record Views Available


Parcel 012-42
HALL ODA & KATHRYN ESTATE
1068 HAYES HOLLOW RD
LIBERTY, KY 42539

 Casey County, KY PVA

Elizabeth Williams Search search...

Layers Map Search Results **Report** Sales Search Sales List Sales Results Tax Estimator Home

Information



Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
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Announcements

Summary

Parcel Number	012-42
Account Number	27642
Location Address	HAYES HOLLOW RD 562
Description	LONG BRANCH
	(Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
HALL ODA & KATHRYN ESTATE
1068 HAYES HOLLOW RD
LIBERTY, KY 42539

Land Characteristics

Valuation

No Record Views Available



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

July 11, 2024

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Clementsville**

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge propose to construct a wireless communications facility on a site located at 340 Casey Creek Road, Liberty, KY 42539 (North Latitude: (37° 17' 42.0", West Longitude 85° 5' 26.0016"). The proposed facility will include a 245-foot tall self-support tower, plus a 10-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 2024-00220 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

A handwritten signature in black ink, appearing to read 'RLB'.

Attorney for Applicant
RLB/mnw
enclosure

Location Map



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Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1592 4118 44

WOODRUM MARK
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539

FIRST-CLASS



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Clark, Quinn, Moses, Scott & Grahn, LLP



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& KIRSTEN ANNE
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FIRST-CLASS



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WOODRUM VIVA & CLEMENT
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LIBERTY, KY 42539

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CLEMENTS JODY & FAYE
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LIBERTY, KY 42539

FIRST-CLASS



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ZIP 46204 \$ 008.69⁰
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DERRINGER ROGER
892 CASEY CREEK RD
LIBERTY, KY 42539

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WETHINGTON JOSEPH GARY & BELIN
909 CASEY CREEK
LIBERTY, KY 42539

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9589 0710 5270 1592 4119 29

WOODRUM BRIAN & VANESSA
133 RAYMOND NOEL RD
LIBERTY, KY 42539

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WOLFORD SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539

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WOODRUM CLEMENT
1175 CASEY CREEK ROAD
LIBERTY, KY 42539

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ARCHULETA CONNIE LYNN
50 GABEHART ST
LIBERTY, KY 42539

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9589 0710 5270 1592 4119 67

ALONZO ANDREW & CARISSA
3233 WOODS CREEK RD
LIBERTY, KY 42539

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9589 0710 5270 1592 4119 74

WETHINGTON JAMES L & MARSHA
4338 WOODS CREEK RD
LIBERTY, KY 42539

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9589 0710 5270 1592 4119 81

WETHINGTON WETHINGTON
& WETHINGTON
BEVERLY-BOBBY & SHELIA-SANDRA
5769 KY 551
LIBERTY, KY 42539

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9589 0710 5270 1592 4119 98

WETHINGTON BOBBY
959 GUM LICK RD
LIBERTY, KY 42539

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02 7H
0006035028 JUL 11 2024

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9589 0710 5270 1592 4120 01

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LIBERTY, KY 42539

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02 7H
0006035028 JUL 11 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:

WETHINGTON BOBBY
 959 GUM LICK RD
 LIBERTY, KY 42539



9590 9402 8430 3156 2515 56

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 98

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Bobby Wethington* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

7-15

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:

WOODRUM MARK
 1054 MURPHY WOLFORD RD
 LIBERTY, KY 42539



9590 9402 8430 3156 2517 09

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118 44

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Mark Woodrum* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

7-15

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
- 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:

WETHINGTON JAMES L & MARSHA
 4338 WOODS CREEK RD
 LIBERTY, KY 42539



9590 9402 8430 3156 2515 70

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 74

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *James L & Marsha Wethington* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

7-15

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
- 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:

ARCHULETA CONNIE LYNN
 50 GABEHART ST
 LIBERTY, KY 42539



9590 9402 8430 3156 2515 94

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 50

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Connie Lynn Archuleta*

- Agent
- Addressee

B. Received by (Printed Name)

James Archuleta

C. Date of Delivery

7-15

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 (0)
- 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:

DERRINGER ROGER
892 CASEY CREEK RD
LIBERTY, KY 42539



9590 9402 8430 3156 2516 48

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 05

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
Roger Derringer Addressee
- B. Received by (Printed Name) *Roger Derringer* C. Date of Delivery *7/16*
- 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 Restricted Delivery
 Certified Mail® Signature Confirmation™
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery
 Insured Mail Signature Confirmation Restricted Delivery
 Mail Restricted Delivery (00)

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:

WOODRUM MARK A
& KIRSTEN ANNE
1054 MURPHY WOLFORD RD
LIBERTY, KY 42539



9590 9402 8430 3156 2516 86

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118 68

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
Mark Woodrum Addressee
- B. Received by (Printed Name) *Mark Woodrum* C. Date of Delivery *7-16*
- 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 Restricted Delivery
 Certified Mail® Signature Confirmation™
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery
 Insured Mail Signature Confirmation Restricted Delivery
 Mail Restricted Delivery (00)

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:

WOODRUM BRIAN & VANESSA
133 RAYMOND NOEL RD
LIBERTY, KY 42539



9590 9402 8430 3156 2516 24

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 29

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
Brian Woodrum Addressee
- B. Received by (Printed Name) *Brian Woodrum* C. Date of Delivery *7-16*
- 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 Restricted Delivery
 Certified Mail® Signature Confirmation™
 Certified Mail Restricted Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Signature Confirmation Restricted Delivery
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery
 Insured Mail Signature Confirmation Restricted Delivery
 Mail Restricted Delivery (00)

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:

WOODRUM VIVA & CLEMENT
1175 CASEY CREEK RD
LIBERTY, KY 42539



9590 9402 8430 3156 2516 79

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118 75

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Viva Woodrum Agent Addressee

B. Received by (Printed Name)

C. Date of Delivery

Viva Woodrum 7-16

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

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.

Address this card to the return address on the mailpiece,

WESLEY EDWIN BLAKE & JENNY L
 4106 TENNESSE RIDGE RD
 LIBERTY, KY 42539



9590 9402 8430 3156 2516 93

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118 51

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Jenny Wesley Addressee

B. Received by (Printed Name) C. Date of Delivery
 Jenny Wesley 7-17

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 (0)
 - 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:

CLEMENTS JODY & FAYE
960 CASEY CREEK RD
LIBERTY, KY 42539



9590 9402 8430 3156 2516 55

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Jody Clements*

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
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

99 (fail 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:

WETHINGTON JOSEPH GARY & BELIN
 909 CASEY CREEK
 LIBERTY, KY 42539



9590 9402 8430 3156 2516 31

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 81

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Joseph Wethington Agent
 Addressed

B. Received by (Printed Name)

Joseph Wethington

C. Date of Delivery

7-16

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
- 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:

WETHINGTON WETHINGTON
 & WETHINGTON
 BEVERLY-BOBBY & SHELIA-SANDRA
 5769 KY 551
 LIBERTY, KY 42539



9590 9402 8430 3156 2515 63

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4119 81

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Sandy Wethington Agent
 Addressed

B. Received by (Printed Name)

Sandy Wethington

C. Date of Delivery

7-24

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
- 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:

WOODRUM CLEMENT & VIVA
 1175 CASEY CREEK RD
 LIBERTY, KY 42539



9590 9402 8430 3156 2516 62

2. Article

958

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Viva Woodrum Agent
 Addressed

B. Received by (Printed Name)

Viva Woodrum

C. Date of Delivery

7-16

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
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTHERN AND CENTRAL U.S. MAY IMPA...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701592411943

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your item was delivered to an individual at the address at 2:22 pm on July 16, 2024 in LIBERTY, KY 42539.

Get More Out of USPS Tracking:

[USPS Tracking Plus®](#)

Feedback

Delivered

Delivered, Left with Individual

LIBERTY, KY 42539

July 16, 2024, 2:22 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)

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[USPS Tracking Plus®](#)



[Product Information](#)



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[Track Another Package](#)



Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTHERN AND CENTRAL U.S. MAY IMPA...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701592411967

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

July 20, 2024

Notice Left (No Authorized Recipient Available)

LIBERTY, KY 42539

July 15, 2024, 2:41 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)

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Enter tracking or barcode numbers

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[FAQs](#)

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USPS Tracking®

FAQs >

Tracking Number:

Remove X

9589071052701592412001

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

July 20, 2024

Notice Left (No Authorized Recipient Available)

LIBERTY, KY 42539

July 15, 2024, 2:33 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

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTHERN AND CENTRAL U.S. MAY IMPA...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052701592411936

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

This is a reminder to arrange for redelivery of your item or your item will be returned to sender.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Delivery Attempt

Reminder to Schedule Redelivery of your item

July 20, 2024

Notice Left (No Authorized Recipient Available)

LIBERTY, KY 42539

July 15, 2024, 2:14 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


July 29, 2024

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Clementsville**

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge propose to construct a wireless communications facility on a site located at 340 Casey Creek Road, Liberty, KY 42539 (North Latitude: (37° 17' 42.0", West Longitude 85° 5' 26.0016"). The proposed facility will include a 245-foot tall self-support tower, plus a 10-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 2024-00220 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

arkQuinn
Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1592 4125 13

HALL ODA & KATHRYN ESTATE
1068 HAYES HOLLOW RD
LIBERTY, KY 42539

FIRST-CLASS



US POSTAGESM PITNEY BOWES



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arkQuinn
Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1592 4125 20

ALONZO ANDREW & CARISSA
3233 WOODS CREEK RD
LIBERTY, KY 42539

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 009.64⁰
02 7H
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Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1592 4125 37

WOLFORD SANDRA ESTATE
12993 W KY 70
LIBERTY, KY 42539

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 009.64⁰
02 7H
0006035028 JUL 29 2024



ClarkQuinn

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

July 11, 2024

Via Certified Mail, Return Receipt Requested
9589 0710 5270 1592 4118 37

Hon. Randy Dial
Casey County Judge/Executive
PO Box 306
625 Campbellsville Street
Liberty, KY 42539

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00220
Site Name: Clementsville

Dear Judge Dial:

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge propose to construct a wireless communications facility on a site located at 340 Casey Creek Road, Liberty, KY 42539 (North Latitude: (37° 17' 42.0", West Longitude 85° 5' 26.0016"). The proposed facility will include a 245-foot tall self-support tower, plus a 10-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 2024-00220 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

Attorney for Applicant

Location Map



CERTIFIED MAIL®

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1592 4118 37

FIRST-CLASS



US POSTAGESM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 JUL 11 2024

Hon. Randy Dial
Casey County Judge/Executive
PO Box 306
625 Campbellsville Street
Liberty, KY 42539

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. Randy Dial
Casey County Judge/Executive
PO Box 306
625 Campbellsville Street
Liberty, KY 42539



9590 9402 8430 3156 2505 66

2. Article Number (Transfer from service label)

9589 0710 5270 1592 4118 37

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Kathy A. Carman Addressee

B. Received by (Printed Name) C. Date of Delivery
Kathy Carman *7-16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Mail Restricted Delivery (0) | |

Exhibit M

SITE NAME: Clementsville 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.

Cellco Partnership, d/b/a Verizon Wireless and Vertical Bridge propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, 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 2024-00220 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and Vertical Bridge propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, 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 2024-00220 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: legals@caseynews.net

The Casey County News
720 Campbellsville Street
Liberty, KY 42539

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana
†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: Clementsville

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of The Casey County New Publication:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and and VB BTS II, LLC / Vertical Bridge are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility located at 340 Casey Creek Road, Liberty, KY 42539 (North Latitude: (37° 17' 42.0", West Longitude 85° 5' 26.0016"). The proposed facility will include a 245-foot tall self-support tower, plus a 10-foot lightning arrestor and related ground facilities. Site name is Clementsville. 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 2024-00220 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. 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





May 22nd, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications

Facility Site Name: CK Clementsville

Type of Tower: 255Ft. Lattice

Location: 340 Casey Creek Road, Liberty, Ky 42539

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 Clementsville.

The CK Clementsville site is proposed with the below objectives:

1. To improve service along Kentucky Route 70.
2. To improve service in Clementsville.
3. To offload existing traffic of existing Verizon sites in this area.

Currently the area is experiencing poor service along Kentucky Route 70 and in the city of Clementsville. 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 240'. The new structure height was decided upon to best cover Kentucky Route 70, in the city of Clementsville 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,

A handwritten signature in black ink, appearing to read "S. Belcher", with a long horizontal flourish extending to the right.

Steven Belcher
Sr. RF Engineer
Verizon Wireless

INDIVIDUAL ACKNOWLEDGMENT

State/Commonwealth of Kentucky
County of Hardin } ss.

On this the 22nd day of May, 2024, before me,
Day Month Year

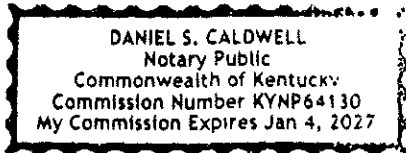
Daniel Caldwell, the undersigned Notary Public,
Name of Notary Public

personally appeared Steven Belcher,
Name(s) of Signer(s)

- personally known to me – OR –
- proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same for the purposes therein stated.

WITNESS my hand and official seal.



Place Notary Seal/Stamp Above

[Signature]
Signature of Notary Public

Daniel Caldwell
Any Other Required Information
(Printed Name of Notary, Expiration Date, etc.)

OPTIONAL

This section is required for notarizations performed in Arizona but is optional in other states. Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____



May 22nd, 2024

RE: Zoning Plots

Site Name: CK Clementsville

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 "S. Belcher", written over a horizontal line.

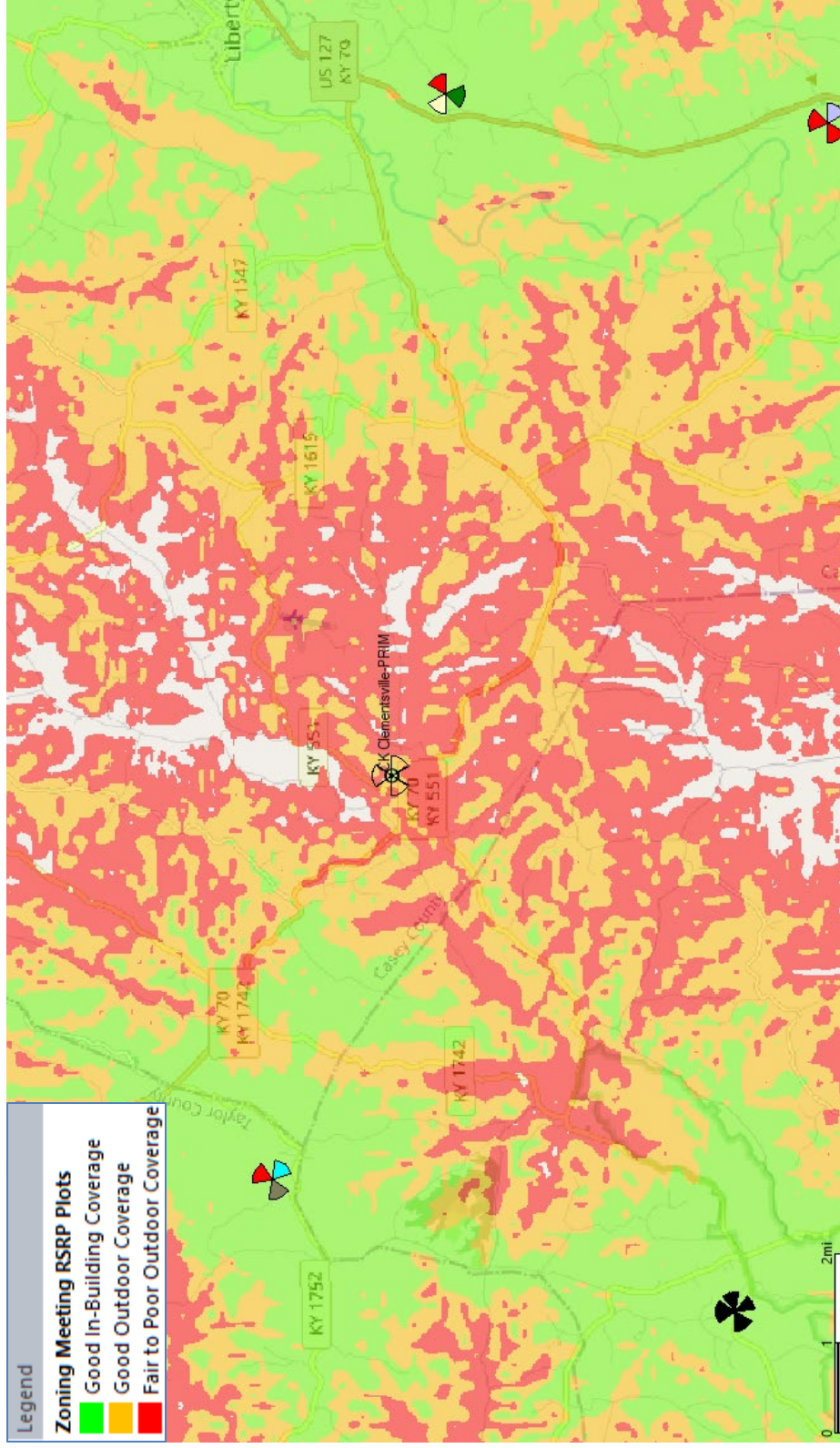
Steven Belcher

Sr RF Engineer

Verizon Wireless



Current Coverage - Without proposed site CK Clementsville





Coverage - With proposed site CK Clementsville

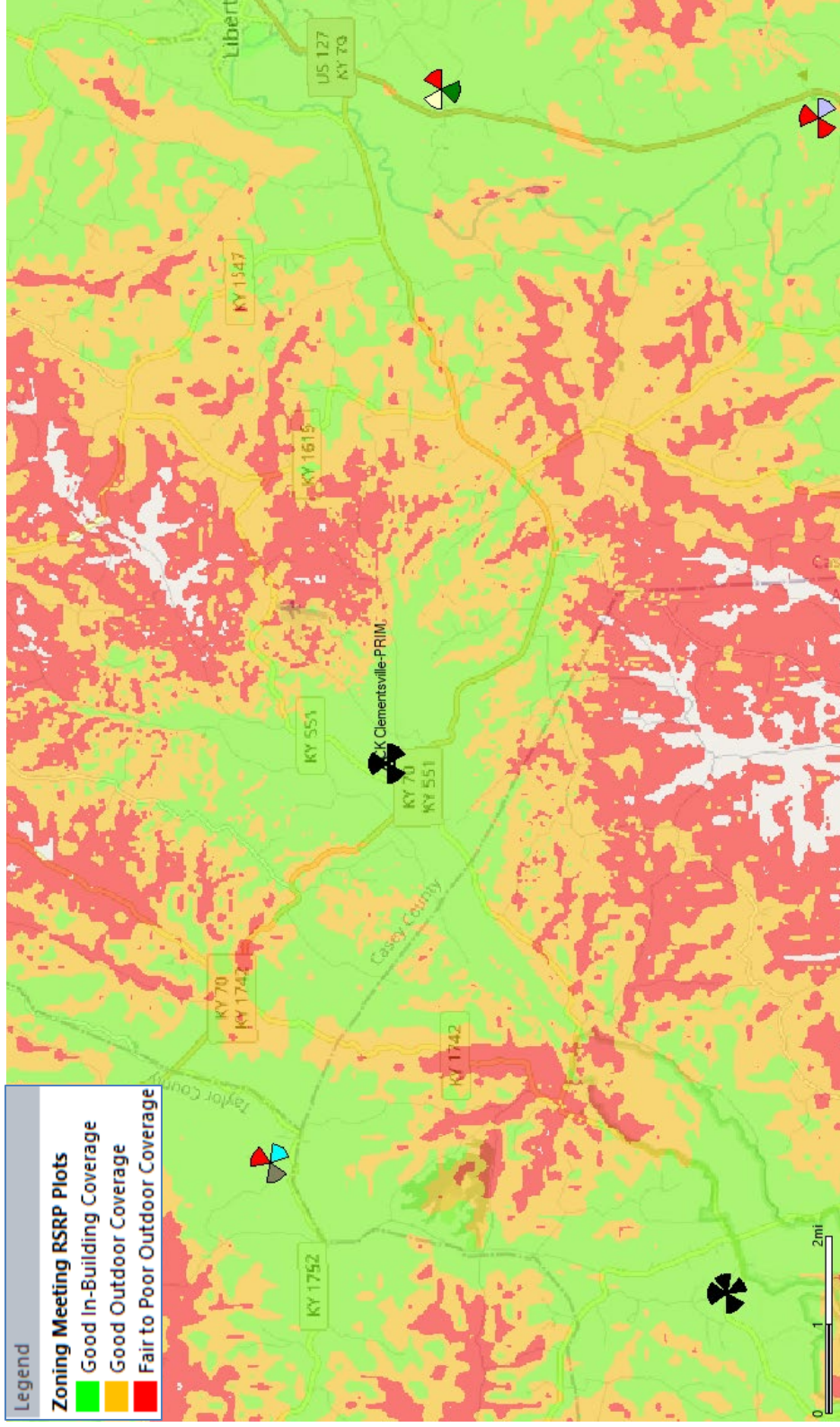


Exhibit S
List and Identity and Qualifications of Professionals

Dmitriy V. Albul
Professional Engineer
Kentucky License 20933
LAB
49030 Pontiac Trail, # 100
Wixom, MI 48393

Frank L. Sellinger
Professional Land Surveyor
Kentucky License 3282
FSTAN
1012 E 4th St, #101
Louisville, KY 40203

Brad R. Milanowski
Professional Engineer
Kentucky License 2581
B + T Group
1717 S. Boulder Ave, #300
Tulsa, OK 74009

Joseph V. Borrelli
Professional Engineer
Kentucky License 30809
Delta Oaks Group
4904 Professional Court, Second Floor
Raleigh, NC 27609

Larry Rhoads
Construction Manager
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

