

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

In the Matter of:

THE APPLICATION OF	)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS	)	
AND THE TOWERS, LLC (VERTICAL BRIDGE)	)	CASE NO. 2025-00245
ISSUANCE OF A CERTIFICATE OF PUBLIC	)	
CONVENIENCE AND NECESSITY TO CONSTRUCT A	)	
WIRELESS COMMUNICATIONS FACILITY IN THE	)	
COMMONWEALTH OF KENTUCKY IN THE COUNTY	)	
OF CASEY		

SITE NAME: HWY 243

* * * * *

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

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (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 submit 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. The Towers, LLC (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 **Exhibit A**.
- b. The Towers, LLC (Vertical Bridge) is a Delaware Limited Liability Company organized in the State of Delaware. We attest that The Towers, LLC 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 is included as part of **Exhibit A**. The Certificate of Authority is on file with the Secretary of State of Commonwealth of Kentucky and is included as part of **Exhibit A**.

3. Co-Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and 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-Applicants' FCC Licenses with Authorization to provide wireless services are attached to this Application or described as

part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicants' service to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant's RF Design Engineer outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit R**. The WCF is an integral link in the 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 on a site located at 3178 Minors Branch Road, Gravel Switch, KY 40328. (North Latitude: (37° 30' 33.53, West Longitude 84° 57' 23.05"), 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 Peter and Angela A. Primiano pursuant to a Deed recorded in Deed Book 274, Page 248 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 8-foot tall lightning arrestor attached at the top, for a total height of 263-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-Applicants 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 attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit Q**.

11. A copy of the Application for Federal Aviation Administration's ("FAA") and the Determination of No Hazard to Air Navigation are attached as **Exhibit F**. The application indicated a tower height of 310', however, the tower will be constructed at the lower height of 263' approved by the FAA and indicated on the Development Plan Set.
12. A copy of the Application for and Approval from the Kentucky Airport Zoning Commission ("KAZC") are attached as **Exhibit G**. The application indicated a tower height of 310', however, the tower will be constructed at the lower height of 263' approved by the FAA and indicated on the KAZC Approval and the Development Plan Set.
13. A geotechnical engineering report was performed at the WCF site by Delta Oaks Group, 4904 Professional Court, Second Floor, Raleigh, NC 27609, dated February 14, 2024 and is attached as **Exhibit H**. The report indicated a tower height of 300', however, the tower will be constructed at the lower height of 263' approved by the FAA and indicated on the Development Plan Set. The difference of a lower height will not change the subsurface evaluation in the report. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit H and Exhibit S**.
14. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and telephone number of the preparer of **Exhibit I** are included as part of this exhibit.
15. 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 or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**.

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

17. The Construction Manager for the proposed facility is Josh Sizemore 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 21045C0050D, Dated July 7, 2009. **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.

19. Attached as **Exhibit K** is the Notification List with screen shots of the PVA records verified and updated using the Casey County PVA on July 16, 2025.

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. A copy of the form of the notice sent by certified mail to each landowner on July 18, 2025, is attached as **Exhibit L**. Eleven (11) notices were sent to surrounding property owners; to date eight (8) notice green cards have been returned and three (3) returned envelopes have been received. All notices are accounted for. Copies of the mailed envelopes, returned green cards, and returned envelopes are included in **Exhibit L**.

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

24. 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**.

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

26. The area of the proposed facility is in the unincorporated area of Casey County, Kentucky. The site is located at 3178 Minors Branch Road, Gravel Switch, KY 40328. The

site is heavily wooded as is the area in general. The terrain is hilly. There is no zoning or Plan Commission in this area of Casey County. The general area where the proposed facility is proposed is well off the public road, wooded and removed a significant distance from any residential structures. The nearest residential structure is 699' 3" from the proposed tower site.

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

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

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

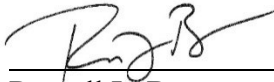
30. All Exhibits to this Application are hereby incorporated by reference and fully set out as part of the Application.

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

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

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

Respectfully submitted,



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
and The Towers, LLC

LIST OF EXHIBITS

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

Delaware

The First State

Page 1

*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.*



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

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



0641227.07

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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)

- | | |
|--|---|
| ☐ a Domestic General Partnership | ☒ a Foreign General Partnership |
| ☐ a Domestic Registered Limited Liability Partnership | ☐ a Foreign Registered Limited Liability Partnership |
| ☐ a Domestic Limited Partnership | ☐ a Foreign Limited Partnership |
| ☐ a Domestic Business Trust | ☐ a Foreign Business Trust |
| ☐ a Domestic Corporation | ☐ a Foreign Corporation |
| ☐ a Domestic Limited Liability Company | ☐ a Foreign Limited Liability Company |
| ☐ 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-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

The First State

Page 1

***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 "THE TOWERS, LLC",
FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF MARCH, A.D.
2023, AT 11:34 O`CLOCK A.M.***


Jeffrey W. Bullock, Secretary of State

7370717 8100
SR# 20231132833

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

Authentication: 203008264
Date: 03-27-23

State of Delaware
Secretary of State
Division of Corporations
Delivered 11:34 AM 03/24/2023
FILED 11:34 AM 03/24/2023
SR 20231132833 - File Number 7370717

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 _____
THE TOWERS, 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.

By: _____ /s/ Daniel Marinberg
Authorized Person

Name: _____ Daniel Marinberg
Print or Type

1343772.06

mmooore
ADD

Michael G. Adams
Kentucky Secretary of State
Received and Filed:
2/22/2024 11:15 AM
Fee Receipt: \$90.00



COMMONWEALTH OF KENTUCKY
MICHAEL G. ADAMS, SECRETARY OF STATE

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

Certificate of Authority
(Foreign Business Entity)

FBE

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

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

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

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

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

5. The date of organization is 03/24/2023 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 DR, STE 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):

Ron Bizick 750 Park of Commerce Dr Ste 2 Boca Raton FL 33487
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 of Authorized Representative Ron Bizick, CEO 02/05/2024
Printed Name & Title Date

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

Joelle Churik Joelle Churik Asst. Secretary 02/06/2024
Signature of Registered Agent Printed Name Title Date

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

Michael G. Adams
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
<http://www.sos.ky.gov>

Certificate of Authorization

Authentication number: 307364

Visit <https://web.sos.ky.gov/fts/certvalidate.aspx> to authenticate this certificate.

I, Michael G. Adams, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

THE TOWERS, LLC

, a limited liability company authorized under the laws of the state of Florida, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 22, 2024.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 18th day of March, 2024, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
307364/1343772

REFERENCE COPY

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



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: 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

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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.
----------	----------	-----------	------------------------------	----------------------------------	---------------------------------------

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.
----------	----------	-----------	------------------------------	----------------------------------	---------------------------------------

7 37-01-05.3 N 084-34-53.8 W

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

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

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

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: BERE A CELL SITE: 3.5 KILOMETERS SOUTHWEST OF

City: BERE A 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

Call Sign WPOK659	File Number 0010160394
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-12-2019	Effective Date 09-23-2022	Expiration Date 09-29-2029	Print Date 02-10-2023
Market Number BTA423	Channel Block C	Sub-Market Designator 1	
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: 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

Call Sign WPZX945	File Number 0009262040
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

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.

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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

Call Sign WQGA940	File Number 0009774996
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 12-21-2021	Effective Date 12-21-2021	Expiration Date 11-29-2036	Print Date 12-21-2021
Market Number BEA047	Channel Block B	Sub-Market Designator 11	
Market Name Lexington, KY-TN-VA-WV			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: 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

Call Sign WQJQ692	File Number
Radio Service WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date 01-10-2020	Effective Date 02-11-2021	Expiration Date 06-13-2029	Print Date
Market Number REA004	Channel Block C	Sub-Market Designator 0	
Market Name Mississippi Valley			
1st Build-out Date 06-13-2013	2nd Build-out Date 06-13-2019	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

Call Sign WQJU901	File Number 0007638848
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003715919

Grant Date 03-31-2017	Effective Date 03-31-2017	Expiration Date 04-28-2027	Print Date 04-01-2017
Market Number BTA423	Channel Block E	Sub-Market Designator 8	
Market Name Somerset, KY			
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. 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: 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

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

FCC Registration Number (FRN): 0003715919

Grant Date 11-16-2021	Effective Date 09-23-2022	Expiration Date 11-29-2036	Print Date 02-16-2023
Market Number REA004	Channel Block D	Sub-Market Designator 10	
Market Name Mississippi Valley			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: 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).

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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REFERENCE COPY

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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	File Number
WRAM732	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	File Number
WRBA642	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.

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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	File Number
WREV443	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.

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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

Call Sign	File Number
WREV444	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 B	Sub-Market Designator 1	
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.

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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	File Number
WRHE833	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.

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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

Call Sign	File Number
WRNF549	
Radio Service PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA096	Channel Block A1	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	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. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: 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

Call Sign	File Number
WRNF554	
Radio Service	
PM - 3.7 GHz Service	

FCC Registration Number (FRN): 0003290673

Grant Date 07-23-2021	Effective Date 07-23-2021	Expiration Date 07-23-2036	Print Date
Market Number PEA096	Channel Block B1	Sub-Market Designator 0	
Market Name Richmond, KY			
1st Build-out Date 07-23-2029	2nd Build-out Date 07-23-2033	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. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: 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

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

FCC Registration Number (FRN): 0003715919

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 12-18-2036	Print Date 02-16-2023
Market Number BEA047	Channel Block C		Sub-Market Designator 14
Market Name Lexington, KY-TN-VA-WV			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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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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Application A1277512

Application Detail

File Number	A1277512	Constructed	
Registration Number		Dismantled	
NEPA		EMI	No

Application Information

Status	Pending	Date Received	11/15/2024
Purpose	Amendment	Entered	11/15/2024
Mode	Interactive		

Antenna Structure

Structure Type LTOWER - Lattice Tower

Location (in NAD83 Coordinates)

Lat/Long	37-30-33.5 N 084-57-23.1 W	Address	Minors Branch Road KY-5186
City, State	Gravel Switch , KY		
Zip	40328	County	CASEY
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
392.0	80.2
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
472.2	77.7

Proposed Marking and/or Lighting

FAA Style E

FAA Notification

FAA Study	2024-ASO-4359-OE	FAA Issue Date	05/02/2024
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Owner & Contact Information

FRN	0033815929	Owner Entity Type	Limited Liability Company
-----	------------	-------------------	---------------------------

Owner

The Towers, LLC	P: (561)406-4023
Attention To: Matthew Bonfante	F:
750 Park of Commerce Drive	E: FCC-FAA@verticalbridge.com
STE 200	
Boca Raton , FL 33487	

Contact

Bonfante , Matthew	P: (561)406-4023
Attention To: Matthew Bonfante	F:
750 Park of Commerce Drive	E: FCC-FAA@verticalbridge.com
STE 200	
Boca Raton , FL 33487	

Environmental Compliance

Does the applicant request a Waiver of the Commission's rules for environmental notice?	Is the applicant submitting an Environmental Assessment?
---	--

8/7/25, 5:19 PM

ASR Application A1277512

No

Yes

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

01/30/2026

Certification

Authorized Party HEFFERNAN, JULIE Title LEASING PROJECT MANAGER

Receipt Date 11/15/2024

Comments

Comments

None

History

Date

02/22/2024

Event

New Application Received

Trans Log

Date

Description

Existing Value

Requested Value

11/15/2024

Attachment : Add

ea placeholder

11/15/2024

Structure : The date the FAA determination was issued

05/02/2024

11/15/2024

Structure : The FAA study number

2024-ASO-4359-OE

All Trans Log (10)

Pleadings

Pleading Type

Filer Name

Description

Date Entered

None

Automated Letters

Date

Description

None

Attachments

Type

Description

Date Entered

ENVIRONMENTAL ASSESSMENT (EA)

ea placeholder

11/15/2024

CLOSE WINDOW



NEW 255'-0" SELF SUPPORT TOWER
w/8'-0" LIGHTNING ROD
TOTAL TOWER HEIGHT 263'-0"

POLICE
HMY 243
SITE #: US-KY-5186
VERIZON WIRELESS SITE

FIRE
PROJECT#: 16913436
MARKET ID: LOUISVILLE
MDC#: 5000906234

SITE ADDRESS
3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328
CASEY COUNTY
E911 ADDRESS: VERIFIED

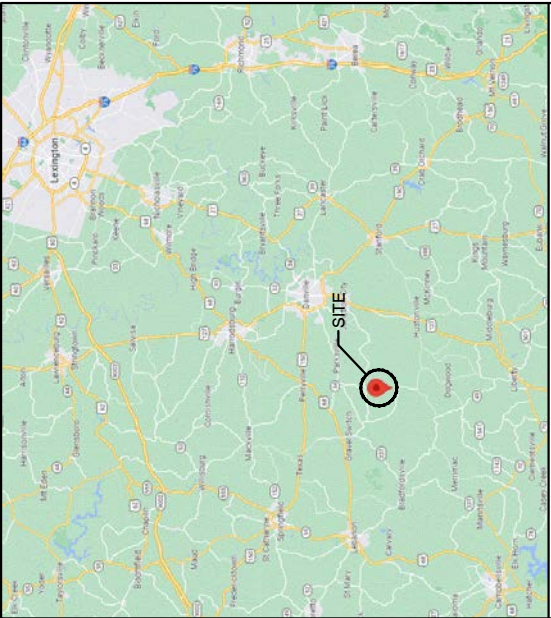
TOWER OWNER
VERTICAL BRIDGE
750 PARK OF COMMERCE DR #200
BOCA RATON, FL 33487
CONTACT: GRETCHEN BLANTON
PHONE: 704-472-0374
E-MAIL: gretchen.blanton@verticalbridge.com

PROPERTY OWNER
PETER & ANGELA PRIMIANO
3180 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328
CONTACT: PETER & ANGELA PRIMIANO
PHONE: 859-209-1924
E-MAIL: TBD

PROJECT TOTAL DISTURBED AREA
COMPOUND: (5100 SF) = (12 ACRE)
ACCESS DRIVE: (10848 SF) = (.25 ACRE)
GROSS AREA: (15948 SF) = (.37 ACRE)

PROJECT SUMMARY
DIRECTIONS FROM CASEY COUNTY CLERK: LEAVE FROM CAMPBELLVILLE ST/KY-70X BUS. TURN LEFT ONTO HUSTONVILLE ST/KY-49. FOLLOW KY 49/KY-49. TURN SHARP RIGHT ONTO KY 78/KY-78. FOLLOW KY 78/KY-78. TURN LEFT ONTO LITTLE SOUTH RD/KY-243. TURN RIGHT ONTO MAXEY VALLEY RD. TURN LEFT ONTO MINORS BRANCH RD. ARRIVE AT SITE ON THE LEFT.

COUNTY SEAT DIRECTIONS



VICINITY MAP

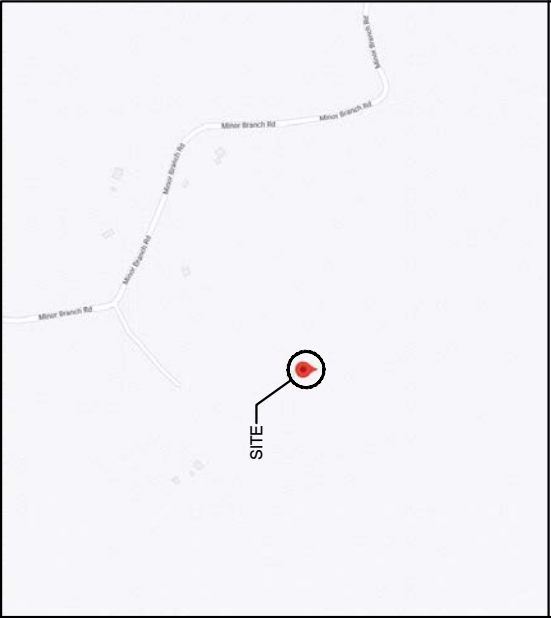
PROJECT DESCRIPTION:

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

- TOWER OWNER SCOPE**
- INSTALL A NEW 255'-0" SELF SUPPORT TOWER w/ 8'-0" LIGHTNING ROD (TOTAL 263'-0")
 - INSTALL A NEW TOWER FOUNDATION SYSTEM
 - INSTALL A NEW 59'x85' FENCED GRAVEL COMPOUND
 - INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE UTILITY H-FRAME
 - INSTALL A NEW GRAVEL ACCESS DRIVE
 - NO WATER OR SEWAGE SERVICES RUN TO SITE
 - INSTALL NEW TOWER & SITE GROUNDING SYSTEM
 - INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
 - INSTALL NEW VZW CONCRETE EQUIPMENT AND GENERATOR PADS
 - INSTALL VZW ICE-BRICK FOUNDATIONS
 - INSTALL VZW EQUIPMENT H-FRAME AND FOUNDATIONS
 - INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME
 - INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC STUB-UP LOCATION TO THE GENERATOR STUB-UP AT VZW GENERATOR PAD
 - INSTALL (1) NEW **VERIZON WIRELESS ONLY** FIBER OPTIC 4" PVC CONDUIT WITH (3) 1" SMOOTH WALL HDPE INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VZW EQUIPMENT TO NEW **VERIZON WIRELESS ONLY** 24"x36" HAND HOLE OUTSIDE COMPOUND THEN TO NEW **VERIZON WIRELESS ONLY** 24"x36" HAND HOLE
 - 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, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
 - INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
 - INSTALL 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 UTILITY LOCATION
 - INSTALL NEW CONDUITS AND CIRCUITS FROM VZW ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZW EQUIPMENT PAD
 - INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
 - INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME

PROJECT DESCRIPTION



LOCATION MAP

HWY 243

US-KY-5186

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328
CASEY COUNTY

TENANT: LEGAL BUSINESS ENTITY d/b/a VERIZON WIRELESS
"HWY 243"
BUILDING #:

DIRECTIONS FROM LOUISVILLE SWITCH 2441 HOLLOWAY RD, LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (354 FT), TURN LEFT ONTO SCHUTTE STATION PL (0.3 MI), ROAD NAME CHANGES TO PLANTSIDE DR (0.3 MI), TURN LEFT ONTO BLANKENBAKER RD (0.1 MI), TURN RIGHT TO STAY ON BLANKENBAKER RD (0.5 MI), TURN RIGHT ONTO DECIMAL DR (0.2 MI), TURN RIGHT ONTO BLUEGRASS PKWY (0.2 MI), TURN LEFT ONTO BLANKENBAKER PKWY (0.3 MI), TAKE THE RAMP ON THE RIGHT FOR I-64 EAST AND HEAD TOWARD LEXINGTON (30.6 MI), AT EXIT 48, HEAD RIGHT ON THE RAMP FOR KY-151 TOWARD GRAEFENBURG / LAWRENCEBURG (0.1 MI), TURN RIGHT ONTO KY-151 / HIGHWAY 151 RD (6.7 MI), TURN RIGHT ONTO US-127 S BYP. / BYPASS N. (6.7 MI), KEEP STRAIGHT TO GET ONTO US-127 S / KY-513 / HARRODSBURG RD (15.6 MI), TURN RIGHT ONTO US-68 W / KY-152 / MOORELAND AVE (10.1 MI), KEEP STRAIGHT TO GET ONTO KY-1856 / S BRAGG ST (4.2 MI), TURN LEFT ONTO KY-513 / LEBANON RD (0.3 MI), TURN RIGHT ONTO KY HIGHWAY 1108 (3.7 MI), TURN RIGHT ONTO KY-37 / FORKLAND RD (0.5 MI), TURN LEFT ONTO MINORS BRANCH RD (3.1 MI), ARRIVE AT MINORS BRANCH RD ON THE RIGHT. THE LAST INTERSECTION BEFORE YOUR DESTINATION IS ELK CAVE RD .IF YOU REACH MAXEY VALLEY RD, YOU'VE GONE TOO FAR.

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	TIA/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	2015 INTERNATIONAL 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
THE LAND CONSULTANTS
5449 HIGHWAY #41
JASPER, TN 37347
PHONE: 423-304-6722

ARCHITECTURAL
TELECAD WIRELESS
1961 NORTHPOINT BLVD
HIXSON, TN 37343
CONTACT: DAVID STAMPE
PHONE: 423-843-9500
EMAIL: david.stampe@TeleCADeng.com

ELECTRICAL
INNER COUNTY ENERGY
1009 HUSTONVILLE RD
DALEBORO, KY 40422
CONTACT: TBD
PHONE: 859-236-4561
EMAIL: TBD

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

CONSULTANT TEAM

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



AERIAL

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:

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

DRAWN BY:

MJB

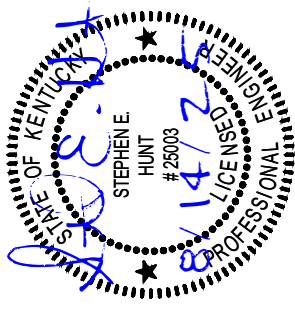
CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MOR ANNT.	REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

T-1

REVISION:

8

GENERAL NOTES:

1.

This Survey is prepared exclusively to show site conditions and/or for use in support of instruments related to Leases and Easements as may be shown hereon. Any property boundary information shown hereon is a composite of information gathered from current or previous Surveys, Plat & Deed Description and/or Assessor's Tax Maps as may be referenced hereon. This Survey is not a Boundary Survey of any Tax Parcels or Deed Tracts, and does not create, combine, or divide any existing properties.
2.

Survey shown hereon was performed under the supervision of a state-registered Land Surveyor and conforms to all applicable State Board Requirements.
3.

Instruments Used: One or more of: Topcon Total Station, Topcon Hiperlite Plus GPS, Carlson Surveyor Data Collector, DJI UAV.
4.

Where shown, improvements (utilities, buildings, trees, fences, etc.) are based on field Survey and/or aerial mapping.
5.

Any Underground Utilities shown according to surface markings made by others, found at time of survey. Additional marked utilities outside the area covered by this survey map may be shown in provided CAD Files. Utility Markings may not be comprehensive: this survey does not relieve design and construction personnel of the responsibility to determine the locations of underground utilities prior to land disturbance activities.
6.

This Survey is presented in the format required by Clients. Clients are advised that Official Jurisdictions may require the Survey to be presented in another format with additional notes and certifications. In the event other formats, notes or certifications are requested by applicable jurisdictions, it is the responsibility of the Client to request same be prepared by Surveyor. Survey as published is not intended to be suitable for recording as a Subdivision Plat.
7.

This survey may have been reduced or enlarged in size due to subsequent reproduction. This should be taken into consideration when obtaining scaled data.
8.

Geographic Coordinates, if published, meet FAA Accuracy Code 1A, and are accurate to within ± 20 feet horizontally and to within ± 3 feet vertically.
9.

Any Flood Zone information presented hereon is according to current FEMA Flood Map information as may be referenced hereon. No Flood Elevation Survey of Certification performed.
10.

This survey is not valid without the original signature seal of a State-Licensed Land Surveyor, and is not complete without the total of sheets as specified in Survey Title Blocks.
11.

Unless indicated otherwise by reference to Record Instruments, any Lessee's Leases, Premises or Easements shown hereon are NOT YET OF RECORD and may be subject to change pending review and approval by Carrier, applicable jurisdictions and/or other involved parties.
12.

Any Survey Markers placed as required by Standards of Practice and/or Client request represent the Leases and/or Easements as requested or designed by Clients at the time of this survey issue and may not reflect changes to site design which have not been communicated to Surveyor in the form of a Survey revision request. Surveyor shall not be liable for any circumstance arising as a result of revisions to Site Design (which may invalidate existing survey markers) occurring after the date of this Survey issue.

PROPOSED TOWER LOCATION DATA

Latitude: NORTH: 37.509314° 37° 30' 33.53"
Longitude: WEST: 84.956403° 84° 57' 23.05"
Ground Elev: 1,286.2 FEET AMSL (NAVD88)
Benchmark: DH7217 KYCP

PARENT TAX PARCEL

PETER PRIMIANO & ANGELA PRIMIANO
TAX PARCEL: 061-19F

NORTH ORIENTATION

KENTUCKY SOUTH STATE PLANE COORDINATE SYSTEM
Based on GPS Survey relative to NGS CORS Network, NAD83 (2011)
ELEVATION DATUM: NAVD88, GEOID 12B
DATE OF SURVEY: 10-16-2022
Method: RTK (CORS); Confidence Level: 95%
Positional Accuracy: HZ ± 0.10'
EPOCH 2010.0000

FLOOD DATA

FEMA FLOOD MAP PANEL: 21045C0050D, Effective Date: 07-07-2009
Surveyed Area appears to lie within: ZONE X (Areas of Minimal Flood Hazard)

TITLE EXAMINATION:

See Sheet #7

ADDITIONAL NOTES

The Lessee's Access & Utility Easement terminates at / extends to the Public R/W.

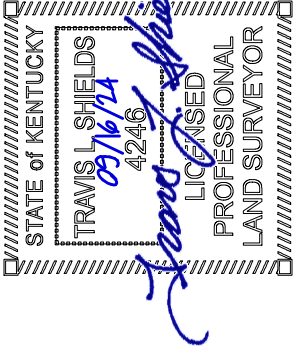
The Lessee's Premises lies entirely within the Parent Tax Parcel.

Except as noted hereon, no visible potential encroachments were observed at the time of the survey.

SURVEY ISSUE DATA

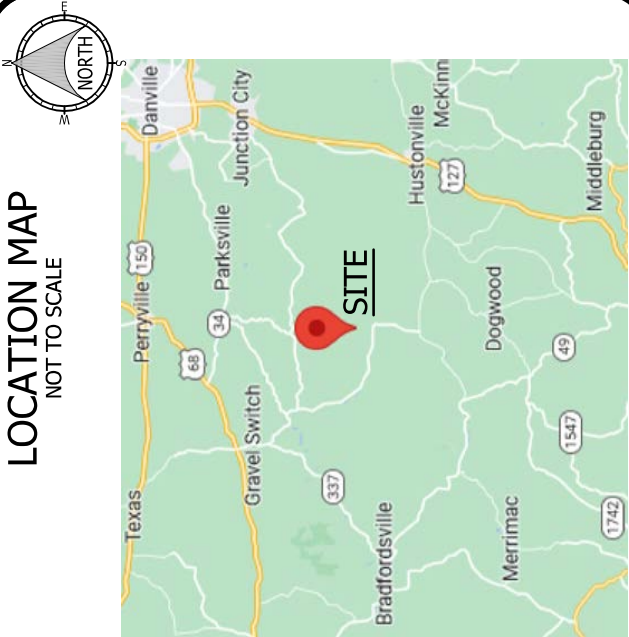
#	DETAILS	DATE	DRAWN	APP
0	Recertification to The Towers, LLC.	09-16-2024	NB	TLS

Travis L. Shields
Kentucky PLS
License No. 4246



LOCATION MAP

NOT TO SCALE



LEGEND

-
- UTILITY POLE

GUY ANCHORPROPOSED TOWER CENTERSITE BENCHMARK

- R/W

RIGHT-OF-WAY
- C/L

CENTER LINE
- AU

ACCESS & UTILITY
- ESMT

EASEMENT
- P.O.C.

POINT OF COMMENCEMENT
- P.O.B.

POINT OF BEGINNING
- Sq Ft

SQUARE FEET

- PAVEMENT EDGE
- GRAVEL EDGE
- TRAIL CENTERLINE
- DITCH
- STORMWATER PIPE
- OVERHEAD TELECOM LINES
- OVERHEAD UTILITY LINES
- 5' CONTOURS
- 1' CONTOURS

- PUBLIC R/W
- TAX PARCEL BOUNDARY
- TIE LINE
- LESSEE'S PREMISES
- LESSEE'S EASEMENTS

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
LV HWY 243

Site Number: US-KY-5186

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky

COVER SHEET

DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET
1
OF
7

PROPERTY INFORMATION

PARENT TAX PARCEL

- A. PETER PRIMIANO & ANGELA PRIMIANO
TAX PARCEL: 061-19F
DEED BOOK 274, PAGE 248,

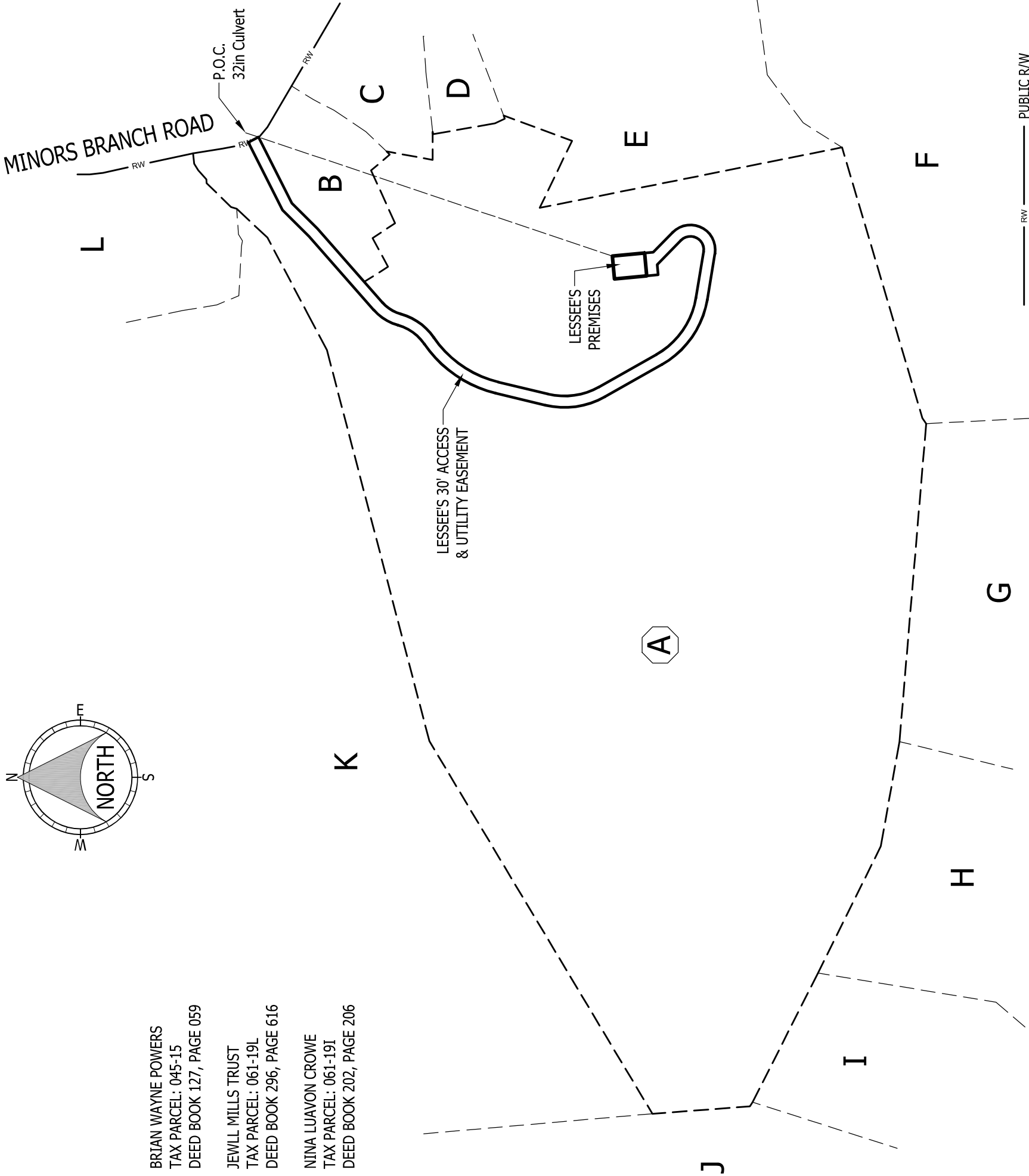
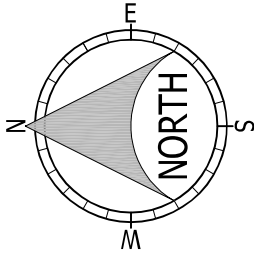
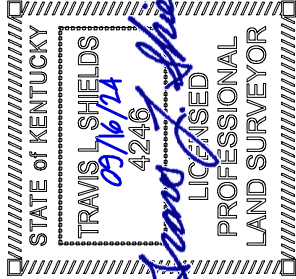
ADJOINING TAX PARCELS

- B. STEVEN BEAUDET ...
TAX PARCEL: 061-19F-2
DEED BOOK 338, PAGE 299
- C. HEATHER CROWE
TAX PARCEL: 061-19C
DEED BOOK 316, PAGE 551
- D. HEATHER CROWE
TAX PARCEL: 061-19F-3
DEED BOOK 334, PAGE 500
- E. WALTER C. ARNOLD
TAX PARCEL: 061-19K
DEED BOOK 237, PAGE 420
- F. JAMES L. HAYES
TAX PARCEL: 062-02
DEED BOOK 293, PAGE 222
- G. VINGIE R. POWERS ESTATE
TAX PARCEL: 045-12
DEED BOOK 180, PAGE 633
- H. BRIAN W. POWERS
TAX PARCEL: 045-13
DEED BOOK 154, PAGE 338
- I. BRIAN WAYNE POWERS
TAX PARCEL: 045-14
DEED BOOK 140, PAGE 378
- J. BRIAN WAYNE POWERS
TAX PARCEL: 045-15
DEED BOOK 127, PAGE 059
- K. JEWELL MILLS TRUST
TAX PARCEL: 061-19L
DEED BOOK 296, PAGE 616
- L. NINA LUAVON CROWE
TAX PARCEL: 061-19I
DEED BOOK 202, PAGE 206

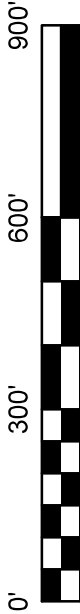
OVERVIEW MAP CAVEAT:

OVERVIEW MAP IS NOT A SURVEY BUT A VICINITY / LOCATION MAP INTENDED ONLY TO SHOW SURVEYED PROPERTY IN RELATION TO SURROUNDING AREA. VESTING AND ADJOINING PARCEL BOUNDARIES ARE NOT INCLUDED IN OR CERTIFIED BY THIS SURVEY. BOUNDARY LINES ARE A COMPOSITE OF DEED, PLAT AND/OR TAX MAP INFORMATION

Surveyor's certification of Survey extends only to the Survey Area as shown on Survey Map Sheets. This sheet includes items based on information supplied to Surveyor by Title Examiners and other sources, presented hereon as a convenience to clients, not included under Survey Certification. No Survey was performed outside the Survey Area.



APPROX SCALE: 1in = 300'



_____ RW	PUBLIC R/W
-----	VESTING LAND
-----	ADJOINING TAX PARCEL
-----	TIE LINE
=====	LESSEE'S PREMISES
=====	LESSEES EASEMENT(S)

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY

LV HWY 243

Site Number: US-KY-5186

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky



THE LAND CONSULTANTS LLC
5449 HIGHWAY 41
JASPER, TN 37347
423-304-6722

PREPARED FOR



THE TOWERS, LLC

750 Park of Commerce Drive,
Boca Raton, FL 33487

OVERVIEW MAP

DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET 2 OF 7

LINE DATA TABLE		
LINE	BEARING	DISTANCE
L1	S 05°18'46" E	85.00'
L2	S 84°41'14" W	60.00'
L3	N 05°18'46" W	85.00'
L4	N 84°41'14" E	60.00'
L5	S 74°22'18" W	26.20'
L6	S 28°04'12" E	30.01'
L7	S 63°17'30" W	194.27'
L8	S 44°52'36" W	94.41'
L9	S 48°39'26" W	257.61'
L10	S 13°36'18" W	133.64'
L11	S 29°29'39" E	171.62'
L12	S 80°33'27" E	121.88'
L13	N 45°36'35" W	88.98'
L14	S 84°41'14" W	26.89'
L15	N 05°18'46" W	30.00'
L16	N 84°41'14" E	60.00'
L17	S 05°18'46" E	22.66'
L18	S 45°36'35" E	73.16'
L19	N 80°33'27" W	121.88'
L20	N 29°29'39" W	171.62'
L21	N 13°36'18" E	133.64'
L22	N 48°39'26" E	256.62'
L23	N 44°52'36" E	98.28'
L24	N 63°17'30" E	198.42'

CURVE DATA TABLE					
CURVE	RADIUS	ARC LEN	TANGENT	DELTA ANGLE	CHORD BEARING
C1	101.12'	58.43'	30.06'	33°06'33"	S 32°06'09" W
C2	154.62'	107.99'	56.30'	40°01'08"	S 35°33'26" W
C3	286.96'	210.16'	110.04'	41°57'42"	S 34°35'09" W
C4	184.59'	138.85'	72.90'	43°05'57"	S 07°56'40" E
C5	211.22'	188.25'	100.89'	51°03'49"	S 55°01'33" E
C6	35.00'	88.61'	111.18'	145°03'07"	N 26°54'59" E
C7	65.00'	164.56'	206.48'	145°03'07"	S 26°54'59" W
C8	241.22'	214.98'	115.22'	51°03'49"	N 55°01'33" W
C9	214.59'	161.42'	84.74'	43°05'57"	N 07°56'40" W
C10	316.96'	232.13'	121.55'	41°57'42"	N 34°35'09" E
C11	124.62'	87.04'	45.38'	40°01'08"	N 35°33'26" E
C12	131.12'	75.77'	38.97'	33°06'33"	N 32°06'09" E

STATE of KENTUCKY

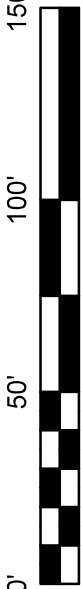
TRAVIS L SHIELDS

09/16/24

4246

LICENSED PROFESSIONAL LAND SURVEYOR

SCALE: 1in = 50'



LESSEE'S 30'
ACCESS & UTILITY
EASEMENT
59,342 Sq. Ft. - 1.36± Ac

MINORS BRANCH ROAD
30' Public R/W (Ref: PB 4-106)

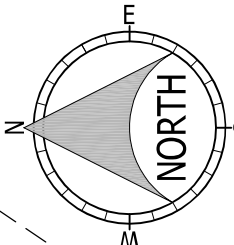
P.O.C.
32in Culvert
IE In: 1039.48'
IE Out: 1040.21'

P.O.B.
A U Esmt

Gravel Drive
See Tie Item #11

S 18°36'02" W 1013.52'
Chord Tie-Line - See Sheet #2

This Line forms the SE Line of a 15'
"Passway" per Deed 338-299. Deed
does not explicitly declare or reserve
an Easement. Intented meaning of
"Passway" is not evaluated herein.



KENTUCKY SOUTH
STATE PLANE

C

B

A

▲ SHEET #3
▼ SHEET #4

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY

Site Number: US-KY-5186

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky



THE
LAND CONSULTANTS
LLC
5449 HIGHWAY 41
JASPER, TN 37347
423-304-6722

PREPARED FOR



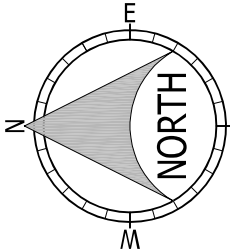
THE TOWERS, LLC

750 Park of Commerce Drive,
Boca Raton, FL 33487

SITE SURVEY

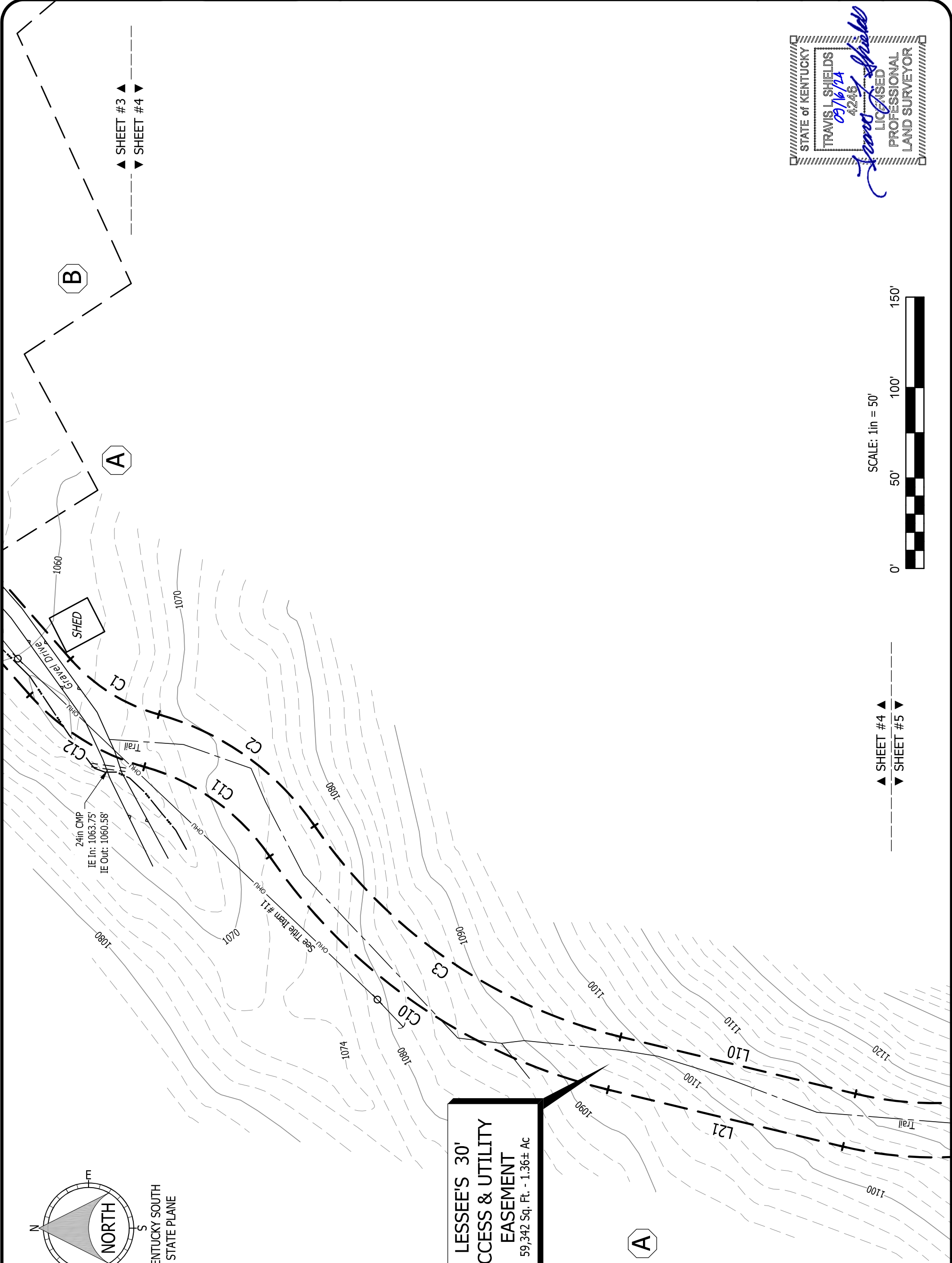
DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET
3
OF
7

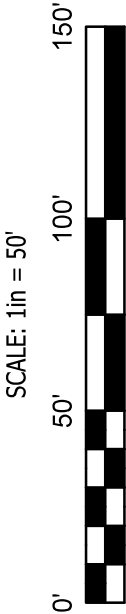


KENTUCKY SOUTH
STATE PLANE

LESSEE'S 30'
ACCESS & UTILITY
EASEMENT
59,342 Sq. Ft. - 1.36± AC



STATE of KENTUCKY
TRAVIS L. SHIELDS
09/16/24
4246
LICENSED
PROFESSIONAL
LAND SURVEYOR



▲ SHEET #4 ▲
▼ SHEET #5 ▼

▲ SHEET #3 ▲
▼ SHEET #4 ▼

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY LV HWY 243

Site Number: US-KY-5186

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky



THE
LAND CONSULTANTS
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5449 HIGHWAY 41
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PREPARED FOR



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750 Park of Commerce Drive,
Boca Raton, FL 33487

SITE SURVEY

DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET
4
OF
7



PREPARED FOR



THE TOWERS, LLC

750 Park of Commerce Drive,
Boca Raton, FL 33487

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

Site Number: US-KY-5186

SITE SURVEY LV HWY 243

Casey County, Kentucky

Minors Branch Road, Gravel Switch, KY 40328

DWG#: 24278

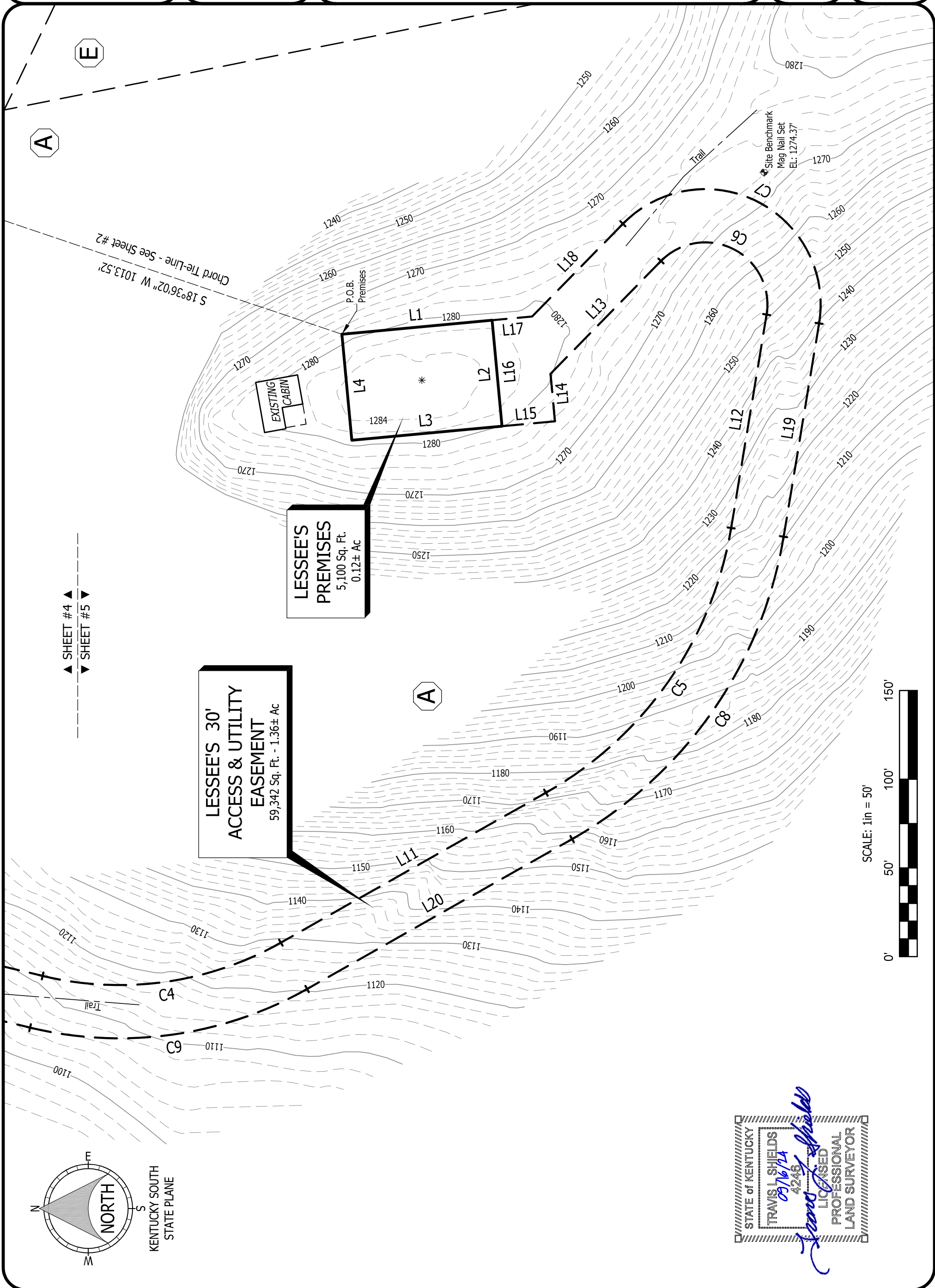
ISSUE #: 0

ISSUE DATE: 09-16-2024

SHEET

5

OF 7



LESSEE'S PREMISES

All that Tract or Parcel of land lying and being in Casey County, Kentucky, and being a portion of the property of Peter Primiano and Angela Primiano, of record in Deed Book 274, Page 248, Clerk's Office, Casey County, Kentucky, and being more particularly described as follows:

COMMENCE at the Northern end of a thirty-two-inch Culvert located on the Northeast side of Minors Branch Road;
Thence along a Chord Tie Line having a Bearing of S 18°36'02" W, a distance of 1,013.52 feet to the POINT OF BEGINNING;

Thence S 05°18'46" E, a distance of 85.00 feet;
Thence S 84°41'14" W, a distance of 60.00 feet;
Thence N 05°18'46" W, a distance of 85.00 feet;
Thence N 84°41'14" E, a distance of 60.00 feet to the POINT OF BEGINNING.

Said Premises contains 0.12 Acres (5,100 Square Feet), more or less.

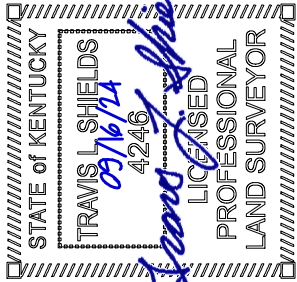
LESSEE'S 30' ACCESS & UTILITY EASEMENT

All that Tract or Parcel of land lying and being in Casey County, Kentucky, and being a portion of the property of Peter Primiano and Angela Primiano, of record in Deed Book 274, Page 248, Clerk's Office, Casey County, Kentucky, and being more particularly described as follows:

COMMENCE at the Northern end of a thirty-two-inch Culvert located on the Northeast side of Minors Branch Road;
Thence along a Chord Tie Line having a Bearing of S 74°22'18" W, a distance of 26.20 feet to a point on the Southwestern Right-of-Way Line of aforesaid Road, which is the POINT OF BEGINNING;

Thence S 28°04'12" E, along said Right-of-Way Line, a distance of 30.01 feet;
Thence S 63°17'30" W, leaving said Right-of-Way Line, a distance of 194.27 feet;
Thence S 44°52'36" W, a distance of 94.41 feet;
Thence S 48°39'26" W, a distance of 257.61 feet;
Thence with a curve to the left with an arc length of 58.43 feet, with a radius of 101.12 feet, with a chord bearing of S 32°06'09" W, with a chord length of 57.62 feet;
Thence with a curve to the right with an arc length of 107.99 feet, with a radius of 154.62 feet, with a chord bearing of S 35°33'26" W, with a chord length of 105.81 feet;
Thence with a curve to the left with an arc length of 210.16 feet, with a radius of 286.96 feet, with a chord bearing of S 34°35'09" W, with a chord length of 205.49 feet;
Thence S 13°36'18" W, a distance of 133.64 feet;
Thence with a curve to the left with an arc length of 138.85 feet, with a radius of 184.59 feet, with a chord bearing of S 07°56'40" E, with a chord length of 135.60 feet;
Thence S 29°29'39" E, a distance of 171.62 feet;
Thence with a curve to the left with an arc length of 188.25 feet, with a radius of 211.22 feet, with a chord bearing of S 55°01'33" E, with a chord length of 182.08 feet;
Thence S 80°33'27" E, a distance of 121.88 feet;
Thence with a curve to the left with an arc length of 88.61 feet, with a radius of 35.00 feet, with a chord bearing of N 26°54'59" E, with a chord length of 66.77 feet;
Thence N 45°36'35" W, a distance of 88.98 feet;
Thence S 84°41'14" W, a distance of 26.89 feet;
Thence N 05°18'46" W, a distance of 30.00 feet;
Thence N 84°41'14" E, a distance of 60.00 feet;
Thence S 05°18'46" E, a distance of 22.66 feet;
Thence S 45°36'35" E, a distance of 73.16 feet;
Thence with a curve to the right with an arc length of 164.56 feet, with a radius of 65.00 feet, with a chord bearing of S 26°54'59" W, with a chord length of 124.00 feet;
Thence N 80°33'27" W, a distance of 121.88 feet;
Thence with a curve to the right with an arc length of 214.98 feet, with a radius of 241.22 feet, with a chord bearing of N 55°01'33" W, with a chord length of 207.94 feet;
Thence N 29°29'39" W, a distance of 171.62 feet;
Thence with a curve to the right with an arc length of 161.42 feet, with a radius of 214.59 feet, with a chord bearing of N 07°56'40" W, with a chord length of 157.64 feet;
Thence N 13°36'18" E, a distance of 133.64 feet;
Thence with a curve to the right with an arc length of 232.13 feet, with a radius of 316.96 feet, with a chord bearing of N 34°35'09" E, with a chord length of 226.98 feet;
Thence with a curve to the left with an arc length of 87.04 feet, with a radius of 124.62 feet, with a chord bearing of N 35°33'26" E, with a chord length of 85.28 feet;
Thence with a curve to the right with an arc length of 75.77 feet, with a radius of 131.12 feet, with a chord bearing of N 32°06'09" E, with a chord length of 74.72 feet;
Thence N 48°39'26" E, a distance of 256.62 feet;
Thence N 44°52'36" E, a distance of 98.28 feet;
Thence N 63°17'30" E, a distance of 198.42 feet to the POINT OF BEGINNING.

Said Easement contains 1.36 Acres (59,342 Square Feet), more or less.



THE
LAND CONSULTANTS
LLC
5449 HIGHWAY 41
JASPER, TN 37347
423-304-6722

PREPARED FOR



THE TOWERS, LLC

750 Park of Commerce Drive,
Boca Raton, FL 33487

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
LV HWY 243

Site Number: US-KY-5186

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky

DESCRIPTIONS

DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET
6
OF
7

TITLE EXAMINATION

Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/NSPS 2021 requirements, Section 6. C. ii., and is limited to determination of the extent of land, that Title Items may influence, if any. "Extent of Property" may be: Blanket in nature for a Parcel or Parcels (not subject to mapping, but assumed to also apply to Lessee's Areas (if any) insofar as these may lie on Parcel(s) influenced by instrument); specifically described by instrument (mapped and shown only if within the Surveyed Area). Determination of physical location may not be possible if: instrument is illegible; instrument lacks sufficient descriptive information; or instrument refers to other instruments which were not included in the title exam and not otherwise available to surveyor. Factors beyond physical location, such as the type of influence that "Restrictions, Covenants, Terms or Conditions" contained in instruments may impart upon Parcels or Lessee's Site or Easements are not evaluated by Land Surveyor. Review by Title Attorney may be warranted. Land Surveyors may not practice Law.)

Reference: Commitment for Title Insurance prepared by Westcoor Land Title Insurance Company and Tower Title, LLC., Commitment Date: August 16, 2024, Commitment Number: VTB-157804-C, Schedule B, Part II, Exceptions.

Item 1 – 10: General Items (no record instruments listed) or Taxes, not addressed by Survey.

Item 11: Right-of-Way Easement, Deed Book D192-529; 60' Electric Easement, being 30' from the centerline of electric system. Applies to Parent Tax Parcel. Power Lines are shown within Survey Area. Deed does not provide information necessary to establish if the lines existing within the Survey area are the lines that this easement was intended to service.

Item 12: Plat P4-106;
Item 14: Plat P4-114
Plats of former vesting lands. No matters on current Parent Tax Parcel.

Item 13: Plat PC1-412: Item no present in Title Exam documents.
Item 15: Plat PC1-629: Plat of lands other than Parent Tax Parcel.
Item 16: Plat PC1-905: Plat of lands other than Parent Tax Parcel.

Item 17: Memorandum of Land Lease Agreement, Deed D345-731: Issued in respect of current Parent Tax Parcel. Describes Lease and Easement in general terms, which are generally consistent with the Lessee's Premises and Easement shown by this survey. Assignment of Land Lease Agreement, Deed D349-291, in respect of same, includes descriptions consistent with the Premises and Easement shown on this survey. SNDA Agreement Deed D345-731, issued in respect of same.

Item 18: Mortgage, Deed M216-407. Issued in respect of Parent Tax Parcel. Blanket in nature, not subject to separate mapping.

Surveyor's certification of Survey extends only to the Survey Area as shown on Survey Map Sheets. This sheet includes items based on information supplied to Surveyor by Title Examiners and other sources, presented herein as a convenience to clients, not included under Survey Certification. No Survey was performed outside the Survey Area.



LEGAL DESCRIPTION OF PARENT TAX PARCEL

All that tract or parcel of land located in the County of Casey, State of Kentucky, being more particularly described as follows:

Beginning at a beech and lynn in Minor's line; thence South 55 deg. East 78 poles to a white oak; thence North 55 deg. East 64 poles to a maple; thence North 130 poles to two small hickories on beech of knob; thence West 112 poles to two beeches in Minor's line; thence with his line South 125 poles to the beginning. There is excluded from this tract an off-conveyance to Howard Conder. Said off-conveyance being of record in Deed Book 62, page 352, in the office of the Clerk of the Casey County Court.

ALSO

A certain tract or parcel of land lying in Casey County, Kentucky, on Elk Cave Branch of Harlan's branch of North Rolling Fork of Salt River and bounded as follows: Beginning at a double sugar tree; David Green's corner; thence with his line N 50 deg. 50 min. West 28-1/5 rods to a stone with three ashes and red bud as pointers, formerly three dogwoods, David Green's corner and Minor's corner; thence with Minor's line North 61 deg. 40 min. East 22 rods to stone corner, formerly sugar tree, supposed to be Minor's corner now Elder's; thence N 21 deg. 40 min. East 27-1/5 rods to a large beech J.W. Gee's corner; thence his line S 52 deg. 50 min. East 47 rods to a stake in J.L. King's line; thence with it South 62 deg. 10 min. West 50 rods to the beginning, this corner is on top of hill. There is excluded from this tract the following off-conveyance from B.H. Mills, single to James S. Mills and Susie Mills, his wife, by deed dated the 6th day of July, 1971, and of record in Deed Book 82, page 433 in the office of the Clerk of the Casey County Court: Beginning at a small black oak and running North 3 degrees West 24.56 poles to a stone on the North side of the creek; thence up the creek South 24 degrees East 17 poles to an ash on the South side of the road; thence South 38 degrees West 13.40 poles to the point of beginning, and containing 1 2/10 acres, more or less, according to the survey of Lewis J. Cochran, Reg. #1038, dated June 5, 1971.

ALSO

Beginning at a stone, papaw and sassafras on the knob in A.J. Shearin's line; thence with his line N 12 W 54 poles to a beech and dogwood; thence 58 W 54-1/2 poles to a white oak stump; thence S 11-1/2 E 80-1/2 poles to a hickory on the top of the knob in G.L. Minor's line; thence with top of knob S 82-1/2 E 38 poles to a black oak and chestnut; thence W 37 E 8-3/5 poles to the beginning, containing 17 acres, the boundary taken for more or less.

ALSO

Beginning at a white oak on Harlins Branch, corner to M.A. Carter; thence S 2 E 68 poles to a hickory corner to same, thence with G.L. Minors to a double poplar; thence E 86 poles to a beech, corner to James King; thence S 10 W 32 poles to a beech and hickory corner to same; thence N 74 W 26 poles to the beginning, the boundary taken for 20 acres, more or less.

ALSO

Beginning at a hickory and sugar tree on a ridge; N 33 W 114 poles to a double poplar thence S with West side of ridge 84 poles to four small chestnuts on point of knob; thence East course a straight line to the beginning, containing about 8 acres, more or less.

ALSO

Beginning at a beech; thence S 10 W 34 poles to a hickory; thence S 54 E 13 poles to a stone; thence N 10 E 40-1/2 (sic) poles to the beginning, containing 3 acres, more or less.

There is excluded from the above the parcels or properties described in the following deeds:

(1) .912 acres conveyed to Jay T. Crowe in Deed Book 181, Page 760, in the Casey County Clerk's Office;

(2) 1.598 acres conveyed to Steve Weaver and Kay Weaver in Deed Book 168, Page 634, in the aforesaid Clerk's Office;

(3) 2.302 acres conveyed to Tracy Mills in Deed Book 158, Page 113, in the aforesaid Clerk's Office;

(4) 2.261 acres conveyed in Deed Book 165, Page 413, in the aforesaid Clerk's Office;

(5) 13.09 acres conveyed to Glen Bailes in Deed Book 120, Page 457, in the aforesaid Clerk's Office;

(6) 2.12 acres conveyed to Jay Thomas Crowe in Deed Book 119, Page 185, in the aforesaid Clerk's Office;

(7) .65 acres conveyed in Deed Book 126, Page 635, in the aforesaid Clerk's Office;

ALSO LESS AND EXCEPT 2.302 acres conveyed in Deed Book 167, Page 192, in the aforesaid Clerk's Office.

Parcel ID: 061-19F

This being the same property conveyed to Peter Primiano and Angela Primiano, husband and wife from Jerald C. Shepherd and Mary M. Shepherd, husband and wife in a deed dated April 27, 2011 and recorded May 6, 2011 in book 274 page 248 in Casey County, Kentucky.



(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
LV HWY 243
Site Number: US-KY-5186
Minors Branch Road, Gravel Switch, KY 40328
Casey County, Kentucky

TITLE

DWG#: 24278
ISSUE #: 0
ISSUE DATE: 09-16-2024
SEE SHEET #1

SHEET 7 OF 7

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:
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DRAWN BY:

MJB

CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

COUNTY TOWER MAP

DRAWING NO.

ASR

REVISION:

8

TOWER

OWNER

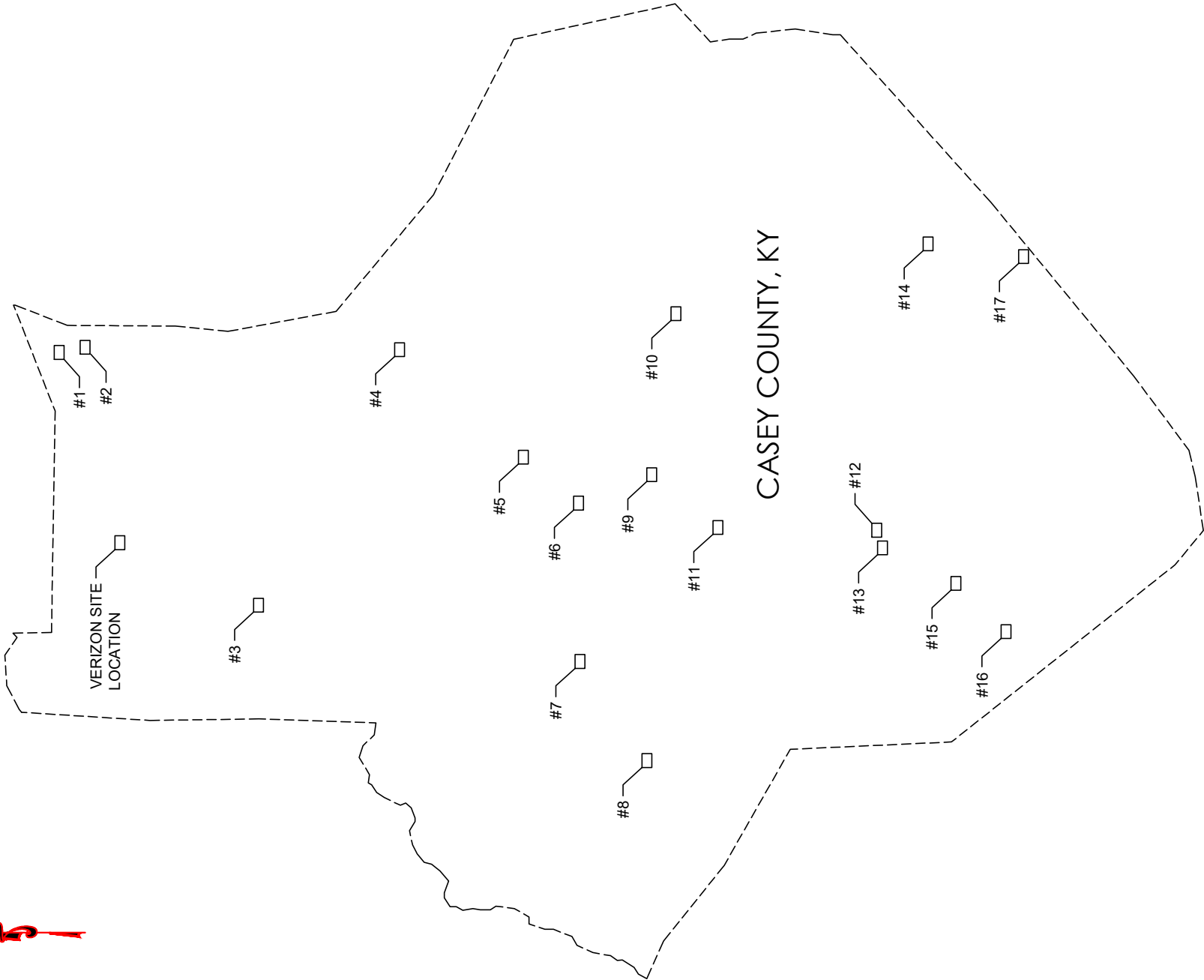
ASR

LATITUDE

LONGITUDE

#1.	EDUCATIONAL MEDIA FOUNDATION	1234122	37°31'27.30"N	84°52'11.80"W
#2.	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS	1044843	37°31'10.00"N	84°52'10.80"W
#3.	CITY SWITCH II, LLC	1312991	37°27'17.60"N	84°59'26.10"W
#4.	CCATT LLC - CROWN CASTLE	1244845	37°24'8.40"N	84°52'12.50"W
#5.	GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC	1042417	37°21'23.00"N	84°55'13.00"W
#6.	COUNTY OF CASEY	1321933	37°20'7.60"N	84°56'32.40"W
#7.	CTI TOWERS ASSETS II, LLC	1313732	37°20'8.60"N	85° 0'58.00"W
#8.	CNS MICROWAVE, LLC	1044720	37°18'36.00"N	85° 3'45.00"W
#9.	CROWN CASTLE SOUTH LLC	1043347	37°18'35.10"N	84°55'42.30"W
#10.	EAST KENTUCKY POWER COOPERATIVE, INC.	1234155	37°17'54.90"N	84°51'11.50"W
#11.	CENTER INDEPENDENT SCHOOL DISTRICT	1264914	37°17'3.10"N	84°57'12.10"W
#12.	UNITY TOWERS	1310312	37°13'26.70"N	84°57'18.90"W
#13.	SBA TOWERS III LLC	1263764	37°13'22.20"N	84°57'39.50"W
#14.	GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC	1264776	37°12'15.80"N	84°49'13.10"W
#15.	HEMPHILL CORPORATION	1232541	37°11'39.30"N	84°58'48.80"W
#16.	CELLCO PARTNERSHIP	1275314	37°10'31.00"N	85° 0'11.50"W
#17.	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA WKSO TV	1044043	37°10'3.00"N	84°49'30.00"W

#18.	PROPOSED VERIZON WIRELESS	TBD	37° 30'33.53"N	84°57'23.05"W
------	---------------------------	-----	----------------	---------------



CASEY COUNTY, KY

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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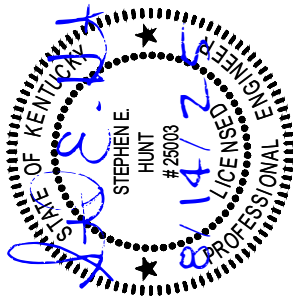
DRAWN BY: MJB

CHECKED BY: DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

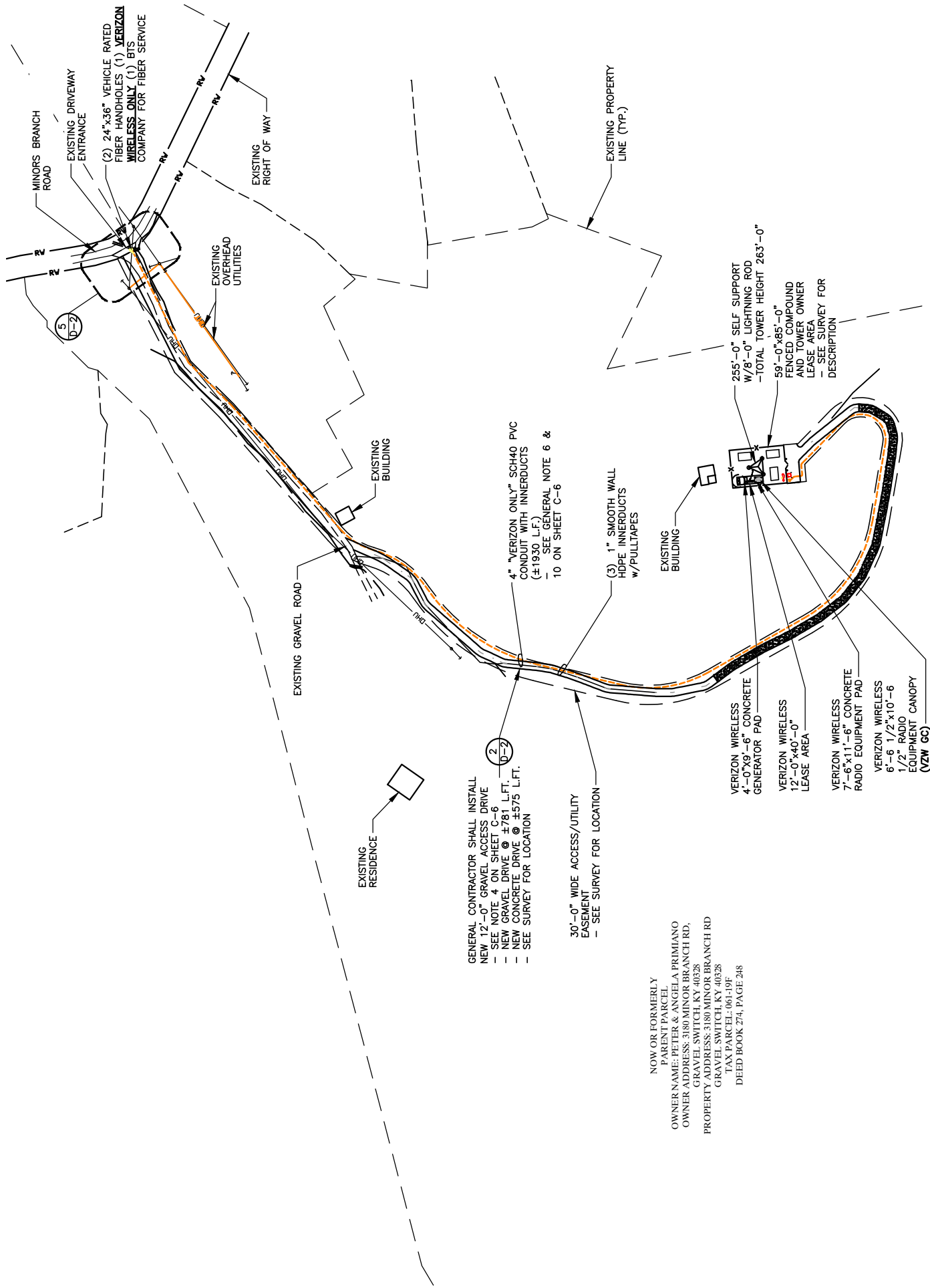
SHEET TITLE:

DRAWING NO.

C-1

REVISION:

8



OVERALL SITE PLAN

SCALE: 1" = 200'



Know what's below.
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 KENTUCKY 811 SYSTEM. CALL 811 TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
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DRAWN BY:

MJB

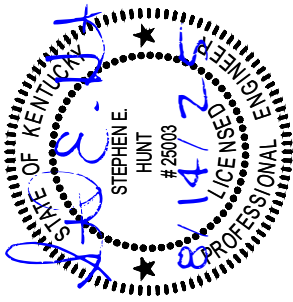
CHECKED BY:

DS

REVISIONS

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SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

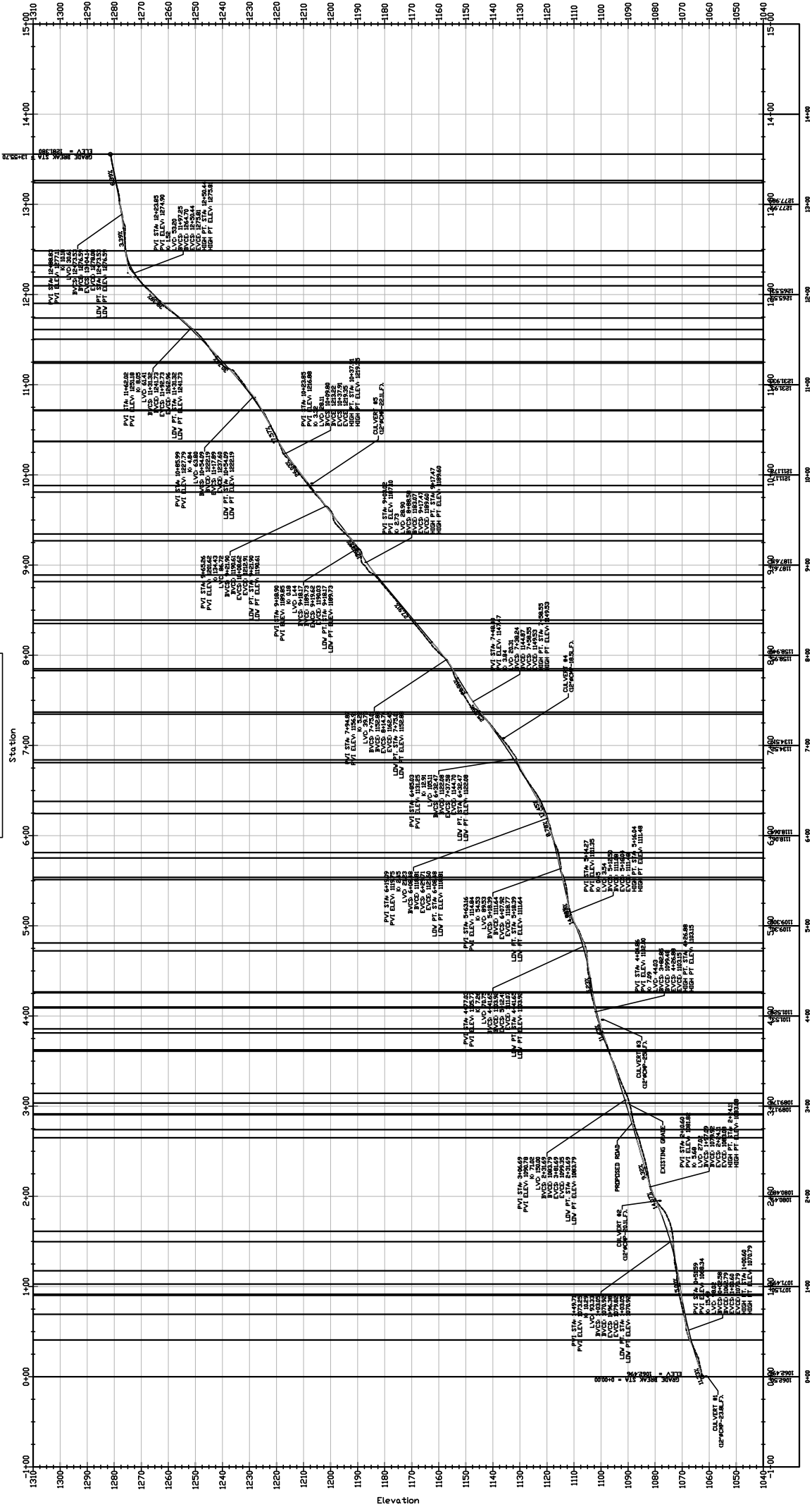
DRAWING NO.

C-2.1

REVISION:

8

Alignment - Road Profile



Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
EG vs Grading	1.000	1.000	47892.37 Sq. Ft.	1587.03 Cu. Yd.	673.94 Cu. Yd.	913.09 Cu. Yd.<Cut>
Totals			47892.37 Sq. Ft.	1587.03 Cu. Yd.	673.94 Cu. Yd.	913.09 Cu. Yd.<Cut>

X-SCALE: 1"=150'

TOTAL LIMITS OF GRADING - ±1.08 ACRES

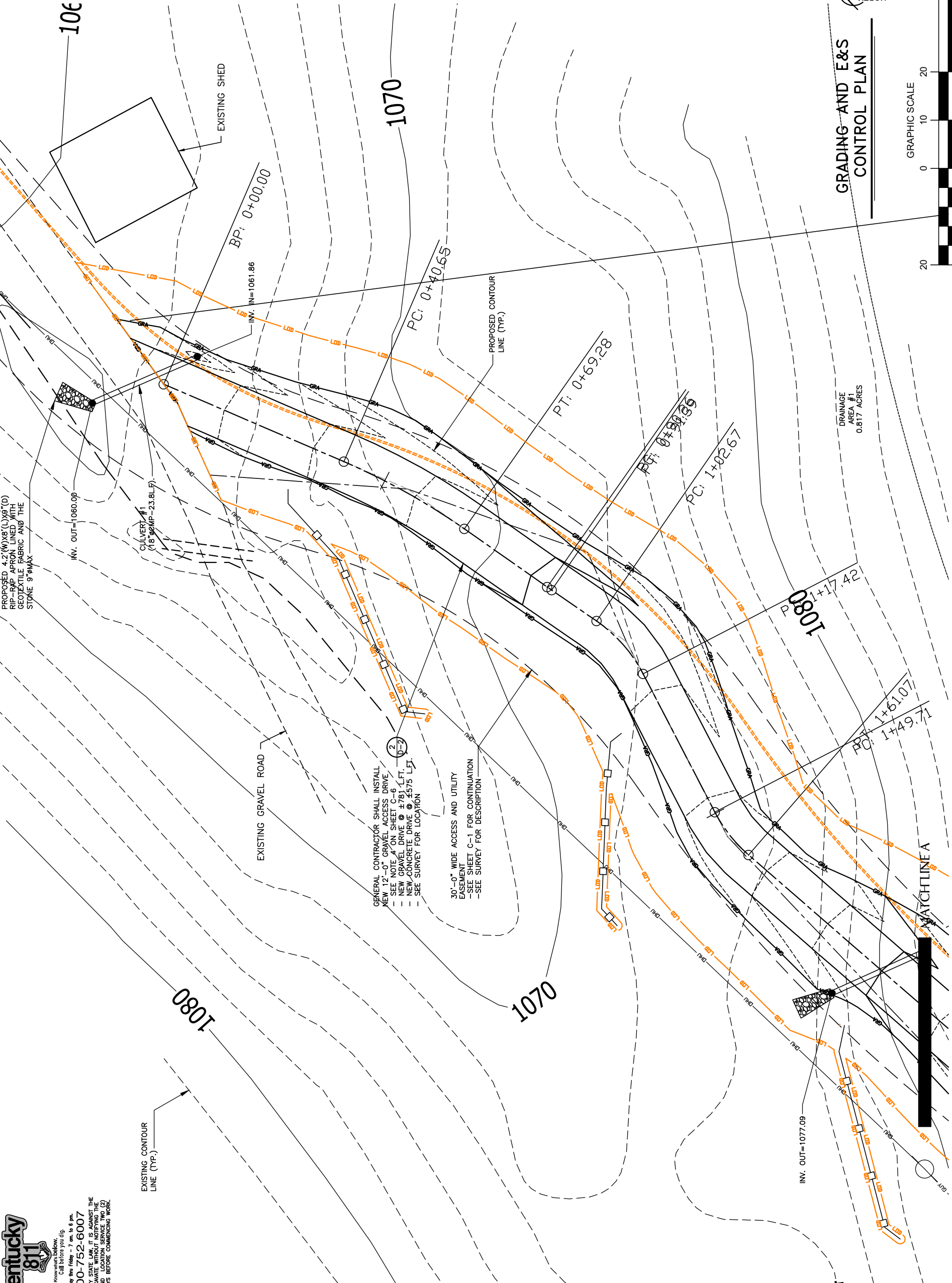
TOTAL LIMITS OF DISTURBANCE - ±1.91 ACRES

Y-SCALE: 1"=50'



Know what's below.
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.



PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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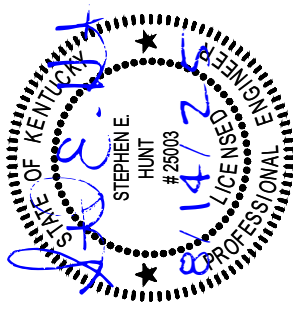
DRAWN BY: MJB

CHECKED BY: DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
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4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
1			

ENGINEER'S STAMP:



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SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

GRADING AND E&S
CONTROL PLAN

DRAWING NO.

C-2.3

REVISION:

8



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UNDERGROUND LOCATION SERVICE TWO (2)
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PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
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DRAWN BY: MJB

CHECKED BY: DS

REVISIONS		
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2	09/04/24	DWS RF REVISED
NO.	DATE	BY DESCRIPTION

ENGINEER'S STAMP:

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SITE NAME: HWY 243

ADDRESS: 3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

LATITUDE: 37° 30' 33.53" N

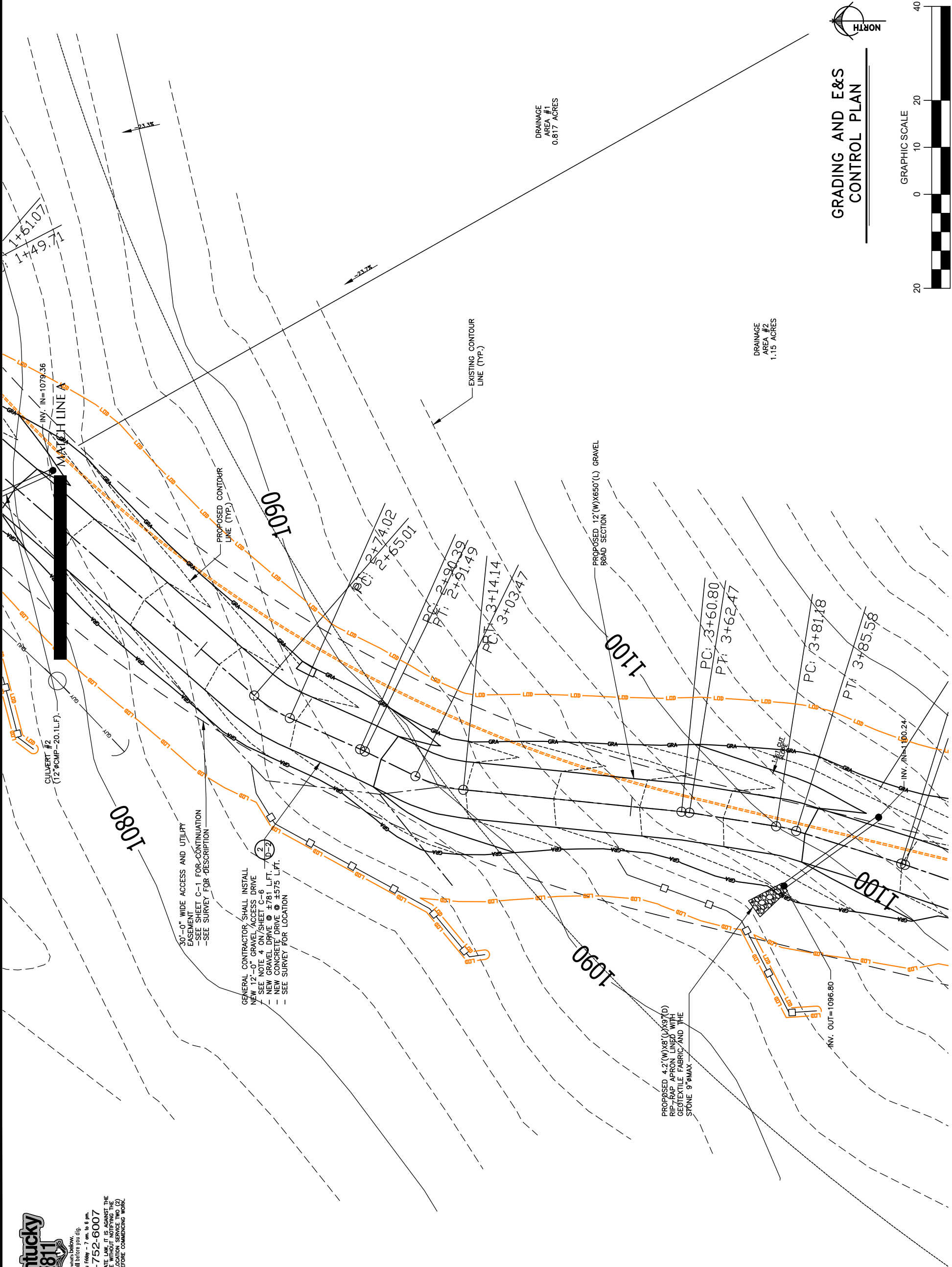
LONGITUDE: 84° 57' 23.05" W

SITE NUMBER: US-KY-5186

SHEET TITLE:

DRAWING NO. C-2.4

REVISION: 8



GRADING AND E&S
CONTROL PLAN

GRAPHIC SCALE
0 10 20 40

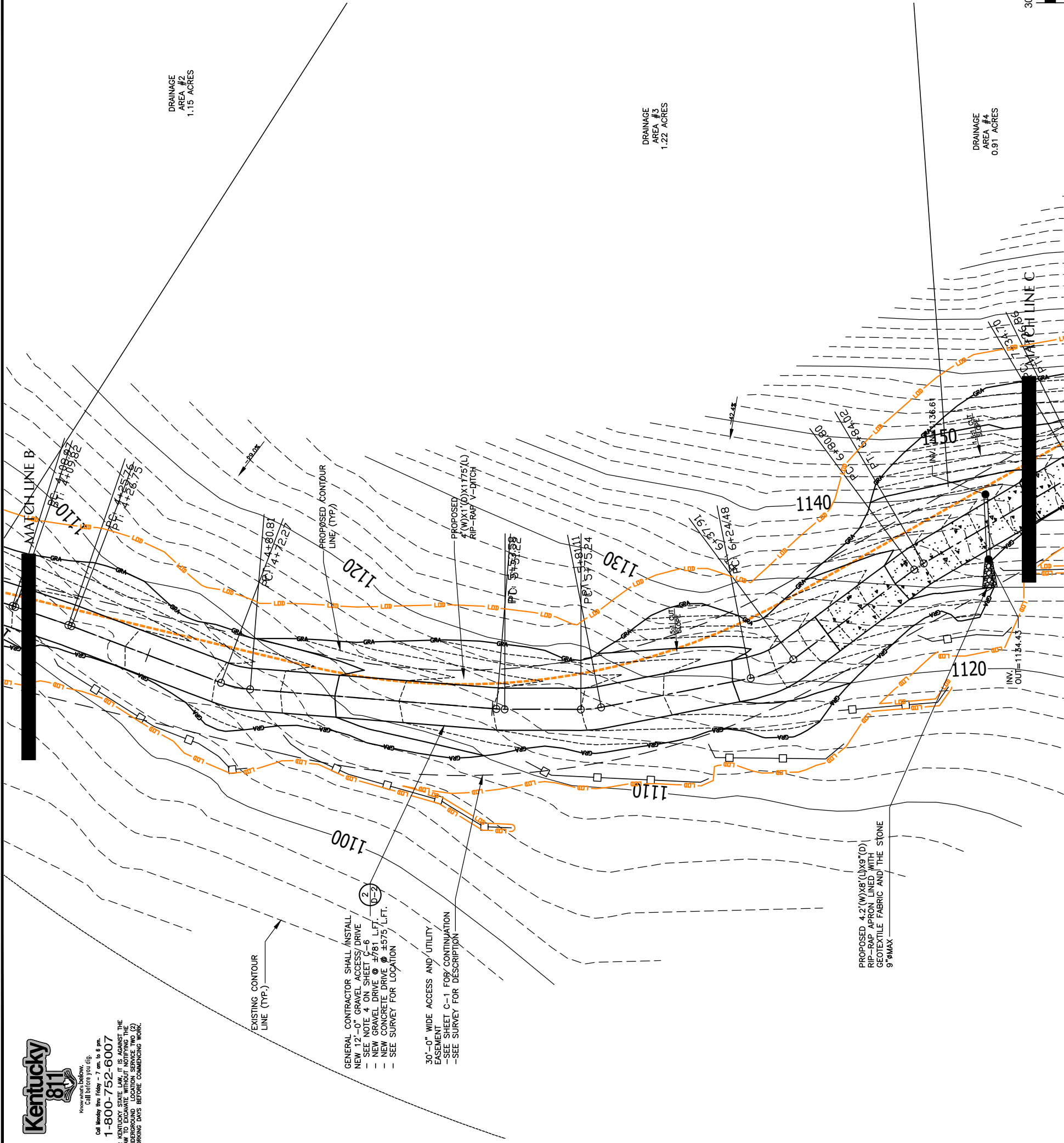


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1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND LOCATION SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.

GENERAL CONTRACTOR SHALL INSTALL
NEW 12'-0" GRAVEL ACCESS/DRIVE
- SEE NOTE 4 ON SHEET C-6
- NEW GRAVEL DRIVE @ ±781 L.F.T.
- NEW CONCRETE DRIVE @ ±575 L.F.T.
- SEE SURVEY FOR LOCATION

30'-0" WIDE ACCESS AND/UTILITY
EASEMENT
-SEE SHEET C-1 FOR CONTINUATION
-SEE SURVEY FOR DESCRIPTION

PROPOSED 4.2'(W)x8'(L)x9"(D)
RIP-RAP APRON LINED WITH
GEOTEXTILE FABRIC AND THE STONE
9"±MAX



DRAINAGE
AREA #2
1.15 ACRES

DRAINAGE
AREA #3
1.22 ACRES

DRAINAGE
AREA #4
0.91 ACRES



GRADING AND E&S CONTROL PLAN



PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:

THE INFORMATION CONTAINED IN THIS SET
OF DOCUMENTS IS PROPRIETARY BY
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THAN THAT WHICH RELATES TO THE CLIENT
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DRAWN BY:

MJB

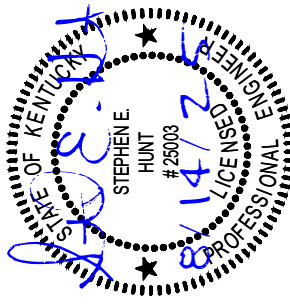
CHECKED BY:

DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
1			

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

C-2.5

GRAPHIC SCALE

30

0

15

30

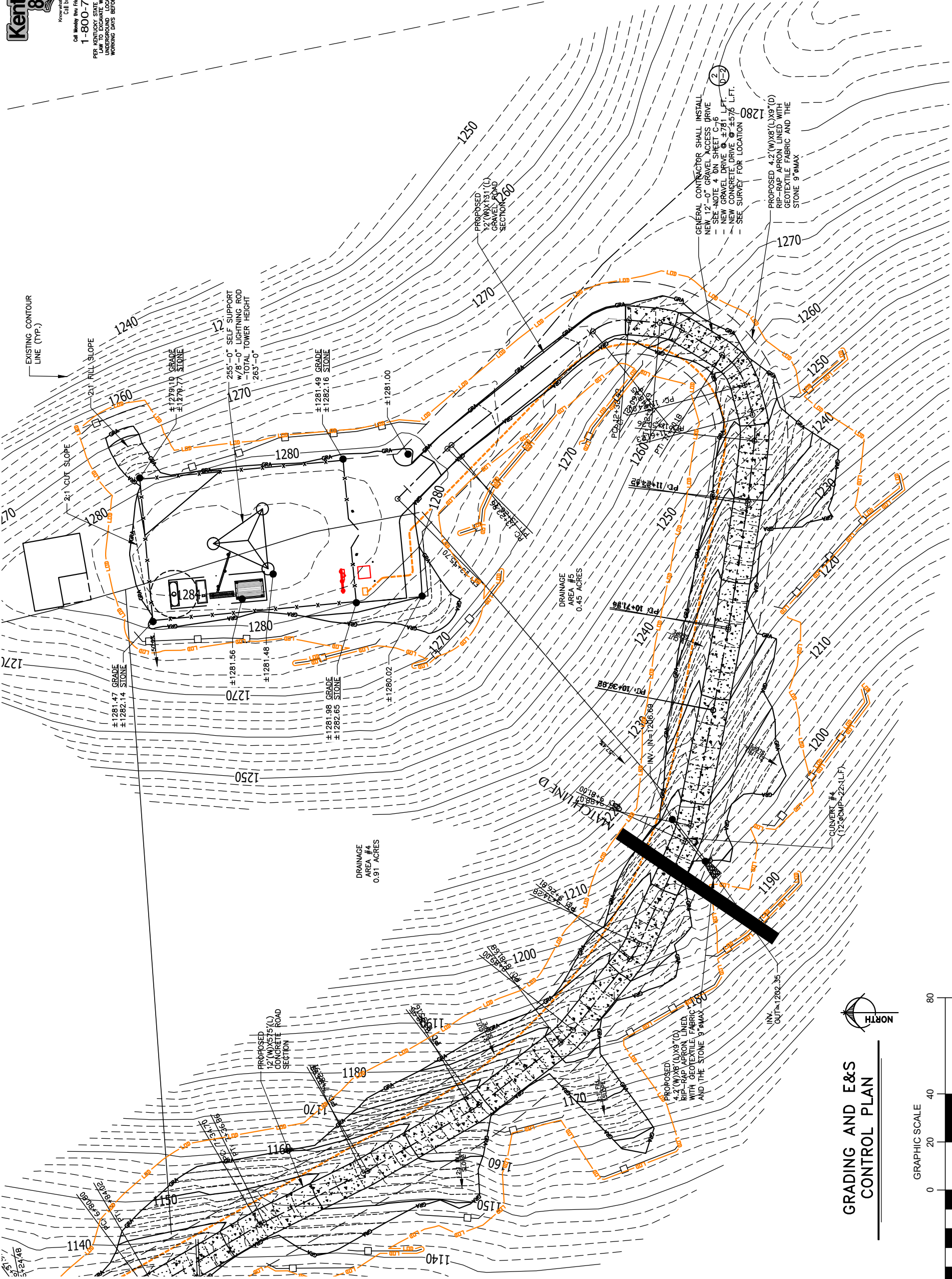
60

30



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

EXISTING CONTOUR
LINE (TYP.)



GRADING AND E&S CONTROL PLAN



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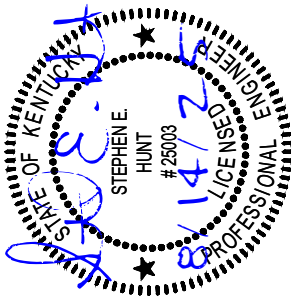
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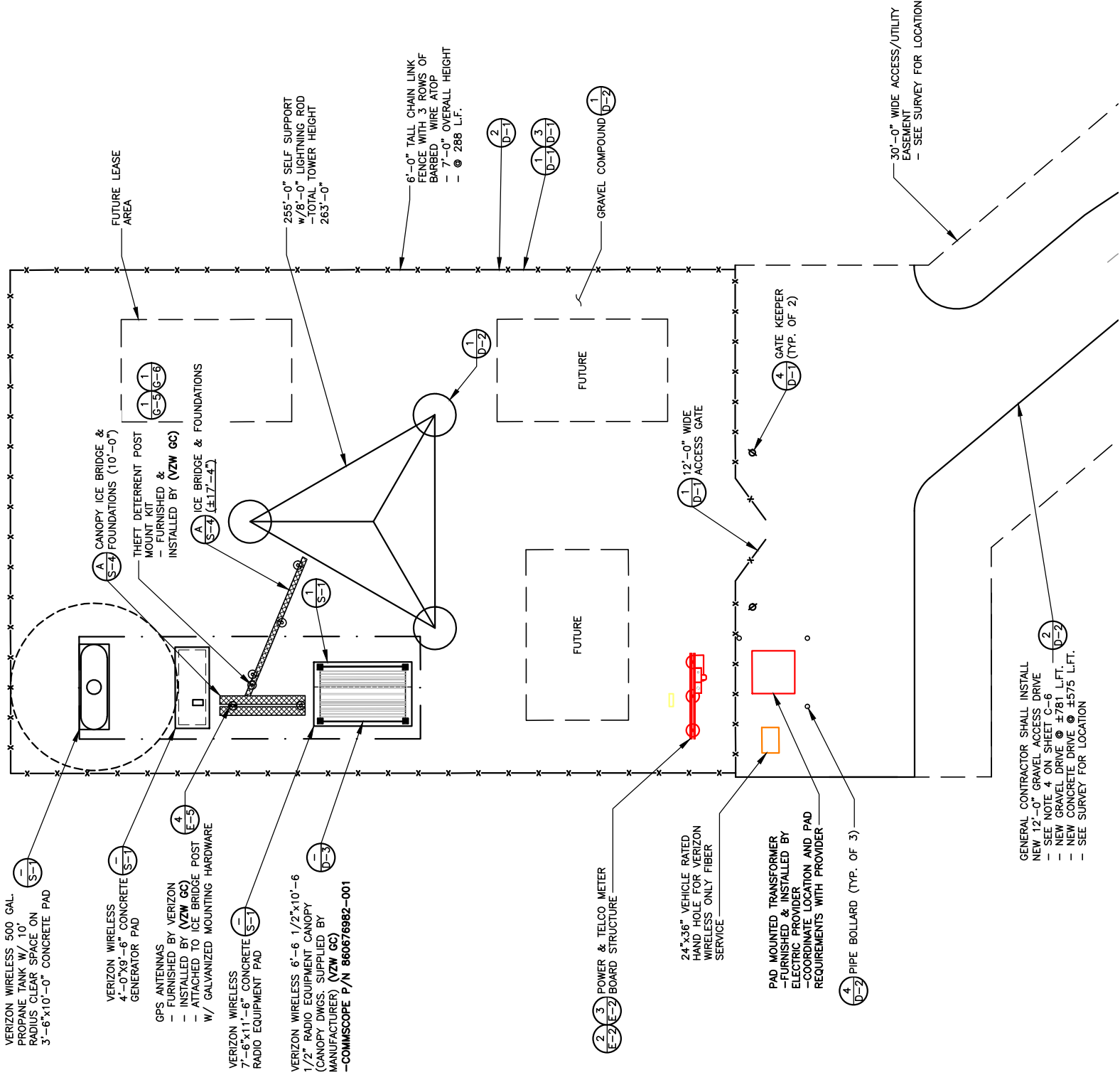
SHEET TITLE:

DRAWING NO.

C-2.7

REVISION:

8



DETAILED SITE PLAN

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

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



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

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
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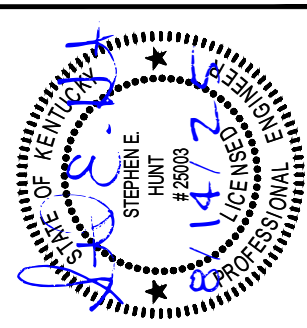
DRAWN BY: MJB

CHECKED BY: DS

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LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

C-3

REVISION:

8

LEGEND

- IRON PIN
- DRAINAGE LINE
- SPOT ELEVATION
- +XXX.XX
- 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
- FENCED COMPOUND
- CONCRETE
- ACCESS DRIVE

PREPARED FOR:



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1961 NORTHPOINT BLVD, SUITE 130
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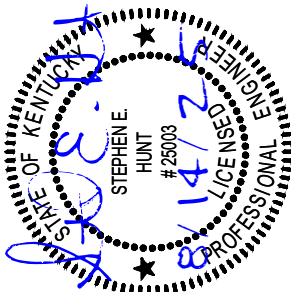
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GRAVEL SWITCH, KY 40328

COUNTY:

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LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

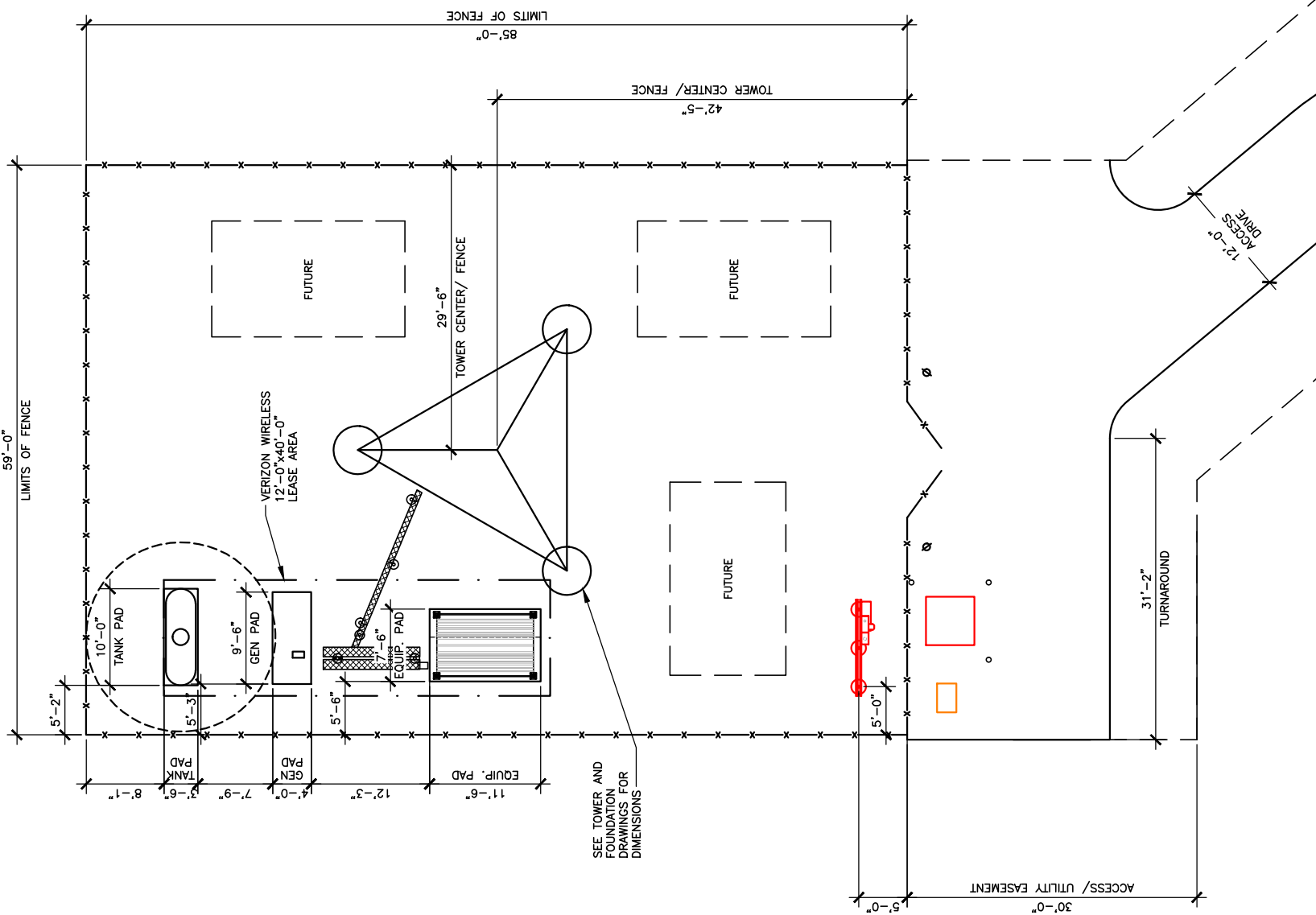
SHEET TITLE:

DRAWING NO.

C-4

REVISION:

8



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



Know what's below.
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.

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

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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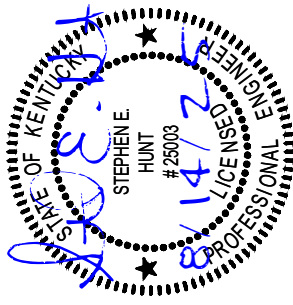
DRAWN BY: MJB

CHECKED BY: DS

REVISIONS

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2	09/04/24	DWS	RF REVISED

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GRAVEL SWITCH, KY 40328

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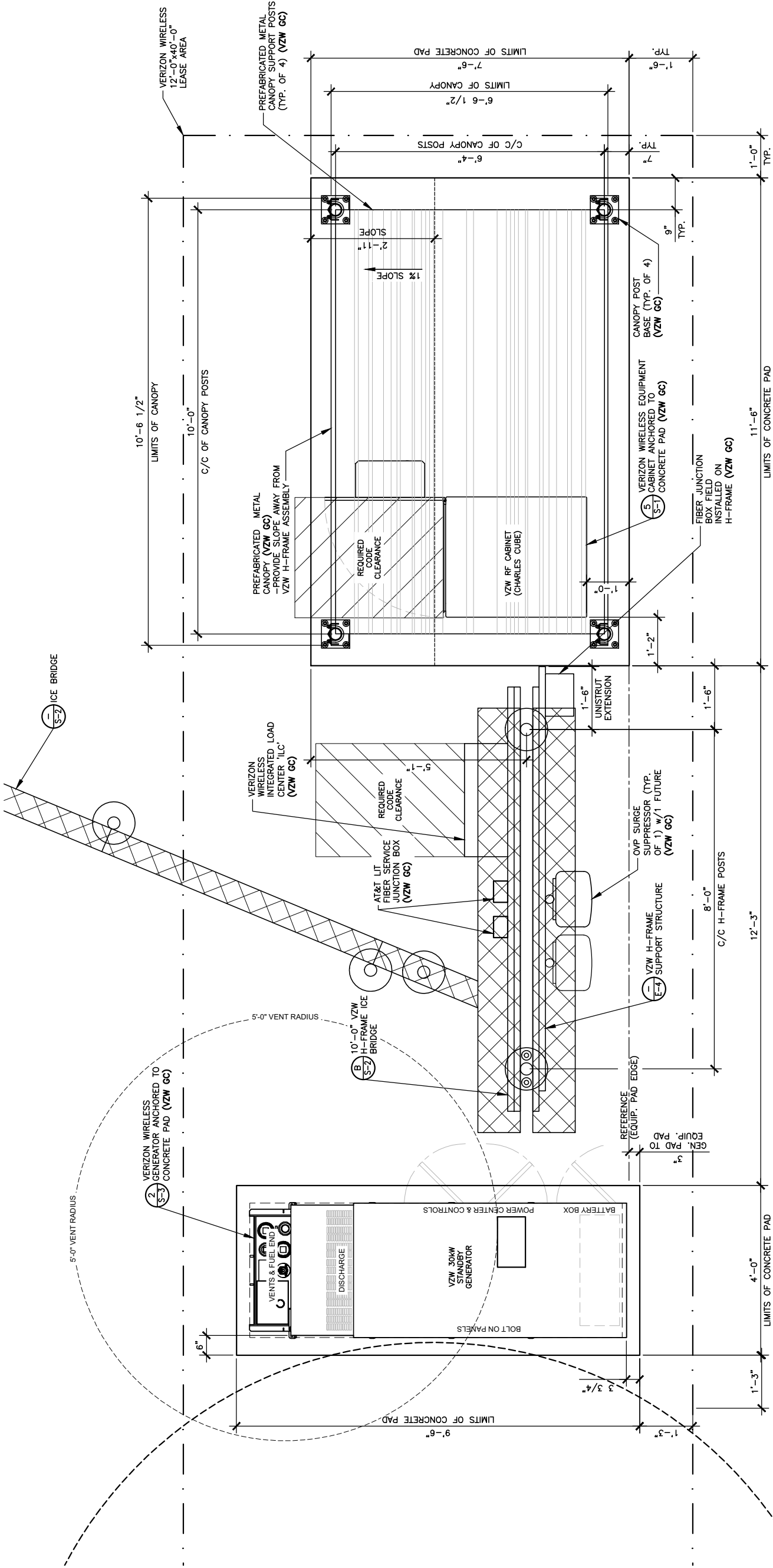
SHEET TITLE:

DRAWING NO.

C-5

REVISION:

8



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
3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328
CONTACT: GRETCHEN BLANTON
PHONE: 704-472-0374
E-MAIL: gretchen.blanton@verticalbridge.com
- PROPERTY OWNER REPRESENTATIVE:**
PETER & ANGELA PRIMANO
3180 MINORS BRANCH RD
CONTACT: PETER & ANGELA PRIMANO
PHONE: 859-209-1924
E-MAIL: TBD

3. **ANTENNA INSTALLATION:**
THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/PLATFORM SHALL ENSURE THE FRAME PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLANS. DURING THE WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED OUTSIDE THE VICINITY OF THE TOWER.
4. **ACCESS DRIVEWAY:**
THE BTS 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 BTS 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 BTS 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 CANOPY 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 GENERAL 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; CONTRACT INNER COUNTY ENERGY ☎ 859-236-14561 WITH QUESTIONS BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT AND TRANSFORMER.

CONDUITS MUST HAVE A MINIMUM DEPTH OF 36". CONTRACTOR SHALL CONTACT ELECTRICAL PROVIDER TO HAVE TRENCH AND CONDUIT INSPECTED BEFORE THE TRENCH IS COVERED. THE ELECTRIC PROVIDER SHALL SUPPLY SERVICE TO THE NEW METER BOARD STRUCTURE. THE CONTRACTOR SHALL CONTACT INNER COUNTY ENERGY TO SETUP AN INSPECTION OF THE TRENCHES BEFORE THEY ARE BACKFILLED. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER THEY ARE BACKFILLED. THE CONTRACTOR SHALL ELECTRIC PROVIDER THREE TO FOUR WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE AND COORDINATION OF ACCESS TO SITE. THE CONTRACTOR SHALL CONTACT INNER COUNTY ENERGY 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 INNER COUNTY ENERGY 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" SDR-11.5 HOPE FIBER CONDUITS w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND METER POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:
 - THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUATZHEUBELL POWER SYSTEMS MODEL PC243621857B4 ASSY T22 SW QB 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.
 - 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" SDR-11.5 HOPE FIBER CONDUIT w/INTEGRATED INNERDUCTS SHALL BE INSTALLED FROM VERIZON WIRELESS ONLY HANDHOLE OUTSIDE COMPOUND TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS)

ELECTRIC SERVICE PROVIDED BY:
FIBER OPTIC SERVICE PROVIDED BY:
INNER COUNTY ENERGY
FIBER PROVIDER TO BE DETERMINED BY VERIZON
ADDRESS: 1009 HUSTONVILLE RD DANVILLE KY 40422
CONTACT: TBD
PHONE: INNER COUNTY ENERGY
EMAIL: TBD

7. **SITE GRADING**

A. UNIFORMLY GRADE AREA TO BE SMOOTH SURFACE FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTION, TOPO LINES AND ELEVATIONS INDICATED.

1. COMPOUND SURFACE GRADES ARE TO BE SLOPED TO DIRECT WATER AWAY FROM EQUIPMENT PAD AND TOWER TO PREVENT STANDING AND PONDING WATER.

2. COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STERILIZATION FOR ACCESS TO ALL CUSTOMERS DENSITY TESTING MAY BE REQUIRED AT VERIZON WIRELESS' DISCRETION DUE TO QUESTIONABLE COMPACTION OF FINISH SURFACE GRADE OR SUB-GRADE.

3. DITCHES/SWALES AROUND THE COMPOUND AREA AND ALONG ACCESS ROAD SHALL BE CONSTRUCTED SO TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES/SLOPE AND NEW PROPOSED GRADES.

4. SITE GRADING AND DRAINAGE SHOULD BE CONSTRUCTED TO PREVENT WATER FROM ENTERING THE COMPOUND SURFACE OR THE ACCESS ROAD SUB-GRADE.

B. MOISTURE CONTROL - UNIFORMLY MOISTEN OR AERATE SUB-GRADE AND EACH SUBSEQUENT FILL OR BACK FILL LAYER BEFORE COMPACTION TO WITHIN 90% OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACK FILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST, SNOW OR ICE.

C. STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT) - SHOULD BE PLACED IN AN AREA THAT CAN BE CONTROLLED TO PREVENT WATER, SNOW, OR ICE FROM ADDITIONAL 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. GEOTEXTILE FABRIC - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE, (SEE SITE AREA SURFACING DETAIL ON D-1), THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENCATE (MIRAFI 500X) WOVEN ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

8. **TRASH REMOVAL & SANITATION:**
THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL REMOVE ALL TRASH AS CREATED BY THEMSELVES AND THEIR SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. NO BURNING OR BURYING OF TRASH IS PERMITTED.

THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.

9. **TOWER:**
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 1-800-752-6007 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 SEEDDED 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, CULTIVETS, 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 TELECAD WIRELESS BY THE LAND CONSULTANTS HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS. SUBMIT THE SET TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION. SUB-BUILDING PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE 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 OR TESTING OF THE WORK AS DIRECTED IN THESE PLANS, GOVERNING AGENCIES AND ALL APPLICABLE CODES.

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 TAILGATE 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.

PREPARED FOR:



PREPARED BY:



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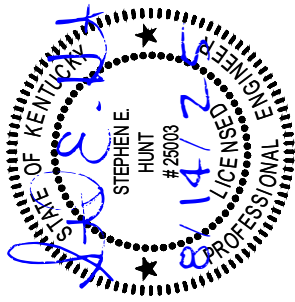
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GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

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LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

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SHEET TITLE:

DRAWING NO.

C-6

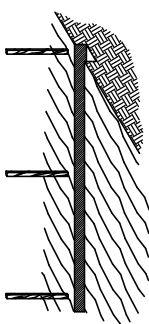
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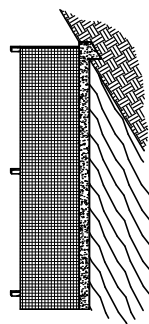
EROSION & SEDIMENT CONTROL NOTES

- ALL WORK SPECIFIED AS A/AN DOT ITEM SHALL BE GOVERNED BY THE STATE OF INDIANA OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
- THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
- PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

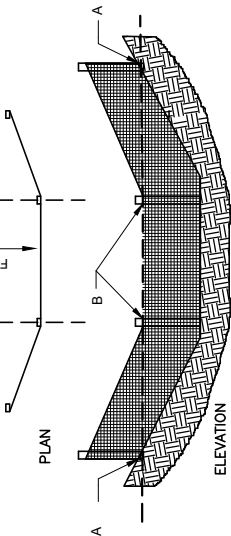
- SET THE STAKES.
- EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



- STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.

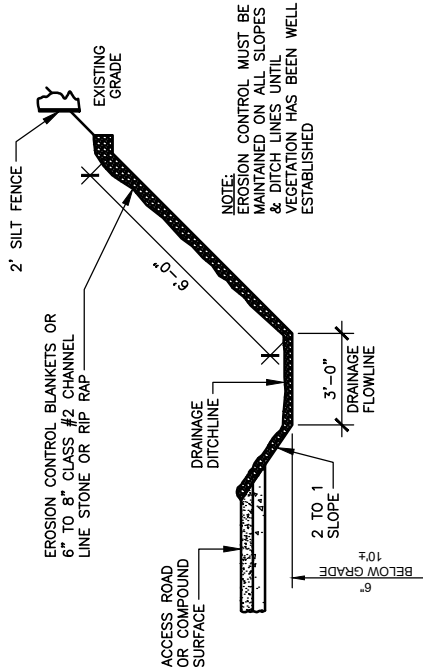


POINTS A SHOULD BE HIGHER THAN POINT B



SILT FENCE DETAIL

SCALE: N.T.S.

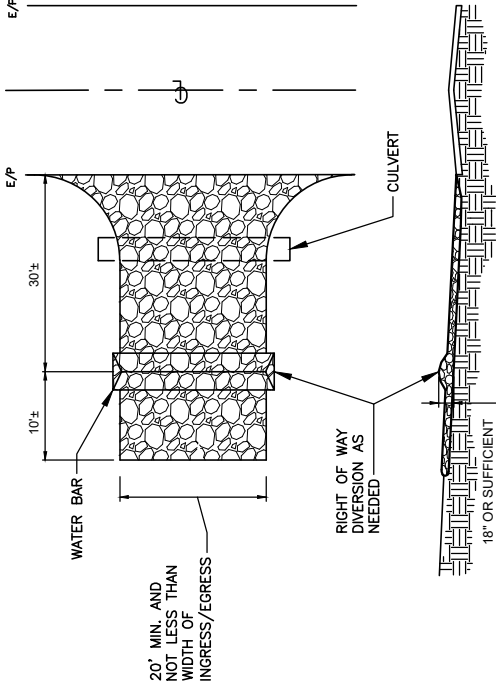


NOTES:

- 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 SLOPES SURFACES TO REDUCE EROSION.
- ALL FLOWLINES MUST BE INSTALLED BELOW SUB-GRADE OF COMPOUND. (AT MINIMUM OF 6" BELOW)

DRAINAGE DITCHLINE DETAIL (SWALE)

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 CONSTRUCTED ENTRANCES SHALL BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

PREPARED FOR:



PREPARED BY:



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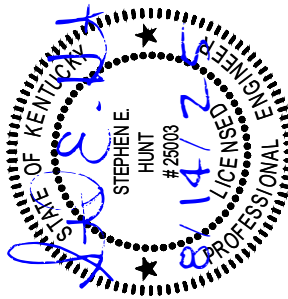
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SITE NUMBER:

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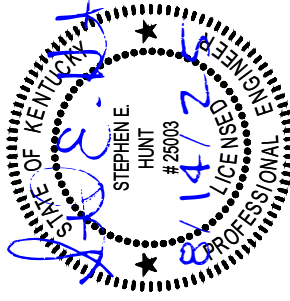
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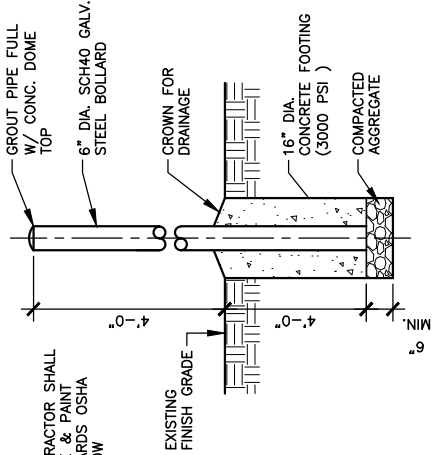
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NOTE:

- CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW

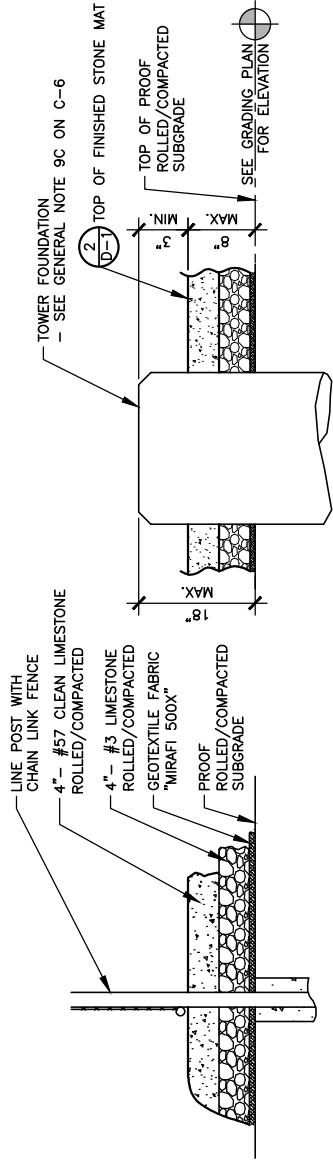


BOLLARD DETAIL

SCALE: N.T.S.

PARTIAL COMPOUND SECTION

SCALE: N.T.S.



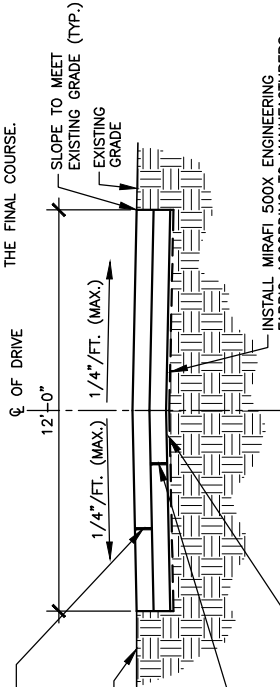
REGRADE DRIVE AND COMPACT 6" OF CRUSHER RUN (#57) AGGREGATE LESTONE (AFTER INSTALLATION OF TOWER AND BUILDING)

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

6" #3 LESTONE w/DGA TO CHOKE OFF BASE, SPREAD AND COMPACT

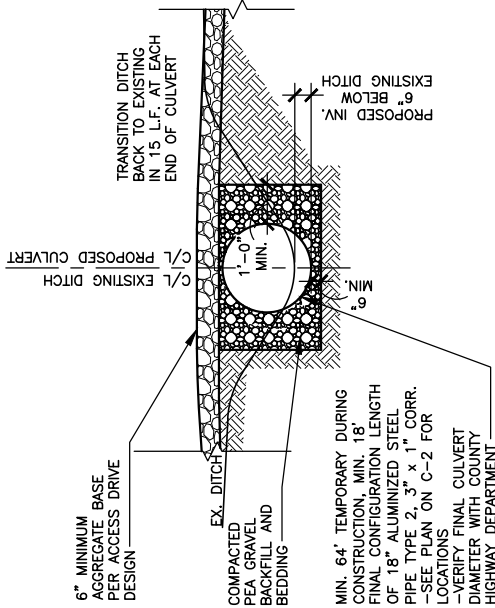
REMOVE TOPSOIL 1'-0" DEEP MINIMUM FROM SITE & COMPACT SUBGRADE TO DOT STANDARDS

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



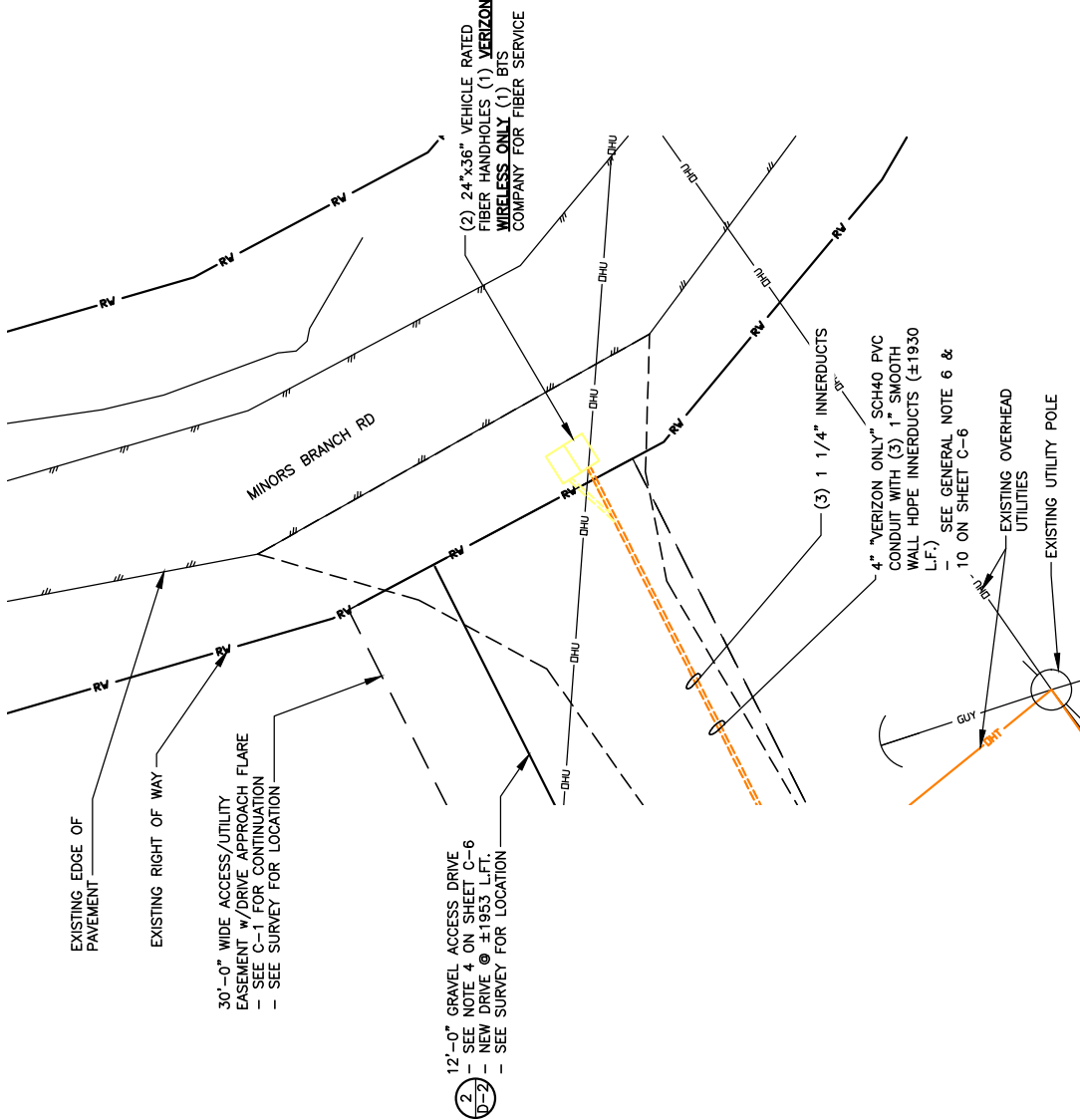
ACCESS DRIVE TYPICAL SECTION

SCALE: N.T.S.



CULVERT DETAIL

SCALE: N.T.S.



ENLARGED FIBER HAND HOLE PLAN AT R.O.W.

SCALE: 3/32" = 1'-0"



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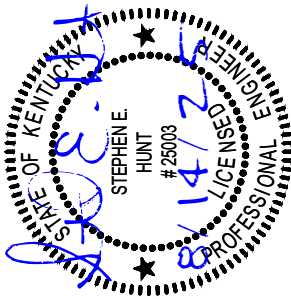
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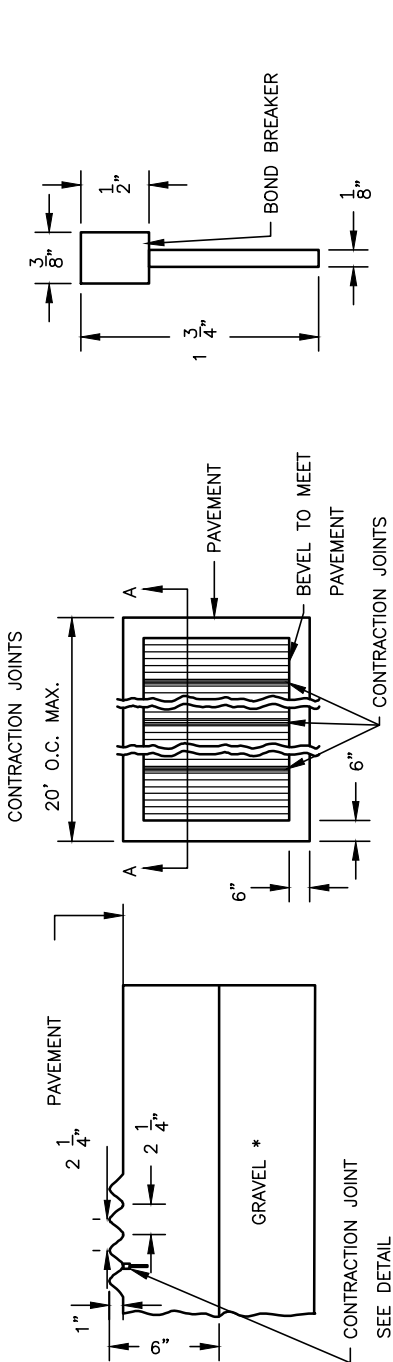
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REVISION:

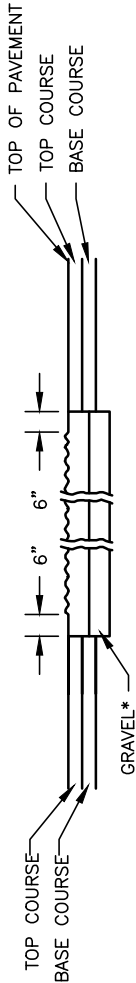
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DETAIL OF CORRUGATIONS

PLAN VIEW

CONTRACTION JOINT DETAIL



SECTION A-A

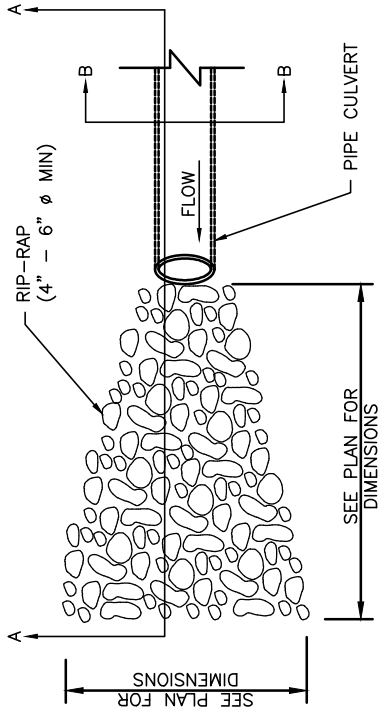
*THE DEPTH OF THE GRAVEL IS TO BE SUCH THAT ITS BOTTOM LINE MEETS THE BOTTOM OF THE GRAVEL LINE OF THE CONTIGUOUS PAVEMENT.

NOTES:

1. CONTRACTION JOINTS ARE TO BE SPACED AT A MAXIMUM OF 20' APART.
2. THE JOINTS ARE TO BE SAWED AND LOCATED IN THE DEPRESSIONS OF THE CORRUGATIONS. SEE CORRUGATION DETAIL.
3. END OF CORRUGATED RIDGES TO BE BEVELED.
4. SCORED CEMENT CONCRETE TO BE: 3000 PSI.
6. TROUGH FLUSH WITH OR ABOVE ADJACENT PAVEMENT FOR DRAINAGE.

CONCRETE ACCESS ROAD

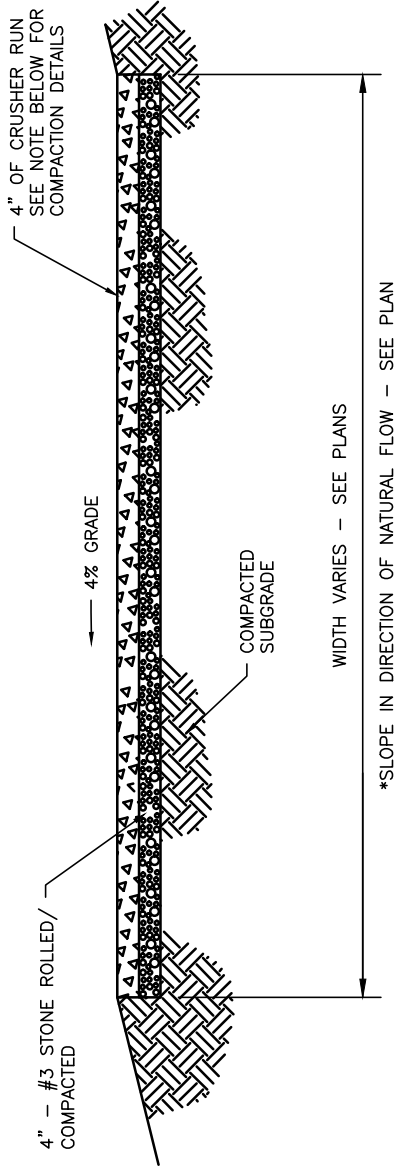
NTS



CULVERT W/ RIP RAP DETAIL

NTS

NOTE:
REMOVE TOPSOIL PRIOR TO PLACING STONE.

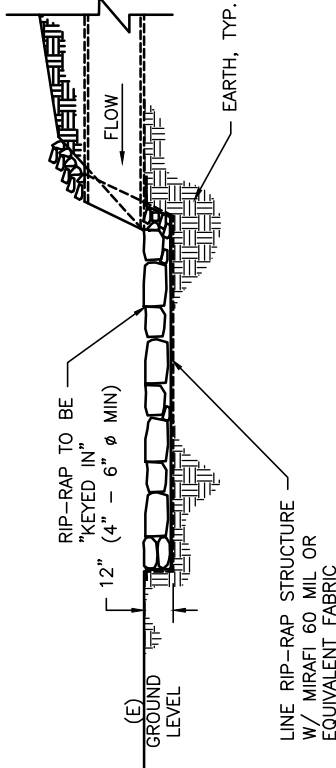


COMPACTION NOTE:

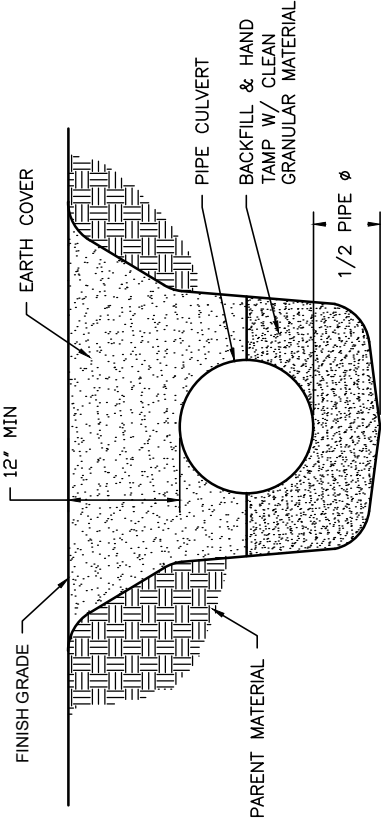
ALL AREAS TO RECEIVE FILL SHALL FIRST BE PROOF ROLLED UNDER THE SUPERVISION OF THE ENGINEER OR TESTING LAB PERSONNEL. ANY AREAS WHICH EXHIBIT "PUMPING" SHALL BE UNDERCUT (OR OTHERWISE STABILIZED) TO A FIRM SOIL BEFORE PLACING FILL. ALSO, ALL FINAL SUBGRADES, WHETHER IN CUT OR FILL, SHALL BE PROOF ROLLED TO PRIOR TO CONSTRUCTING SLABS OR PAVEMENTS. CONTACT ENGINEER FOR DIRECTION IN SITUATIONS WHERE SOIL COMPACTION OR BEARING CAPACITY MAY BE INADEQUATE.

GRAVEL ACCESS ROAD

NTS



SECTION A-A



SECTION B-B

PREPARED FOR:



PREPARED BY:



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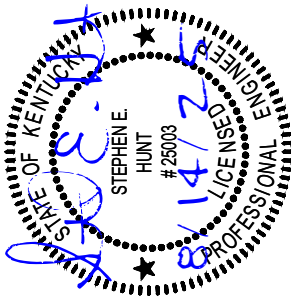
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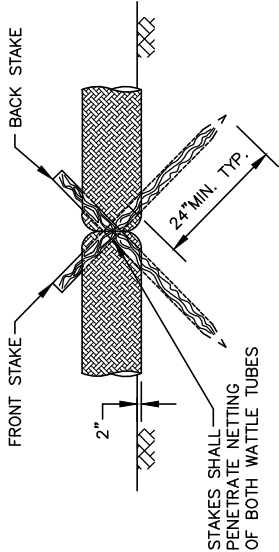
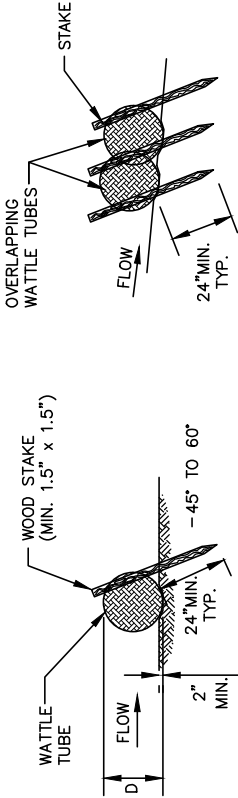
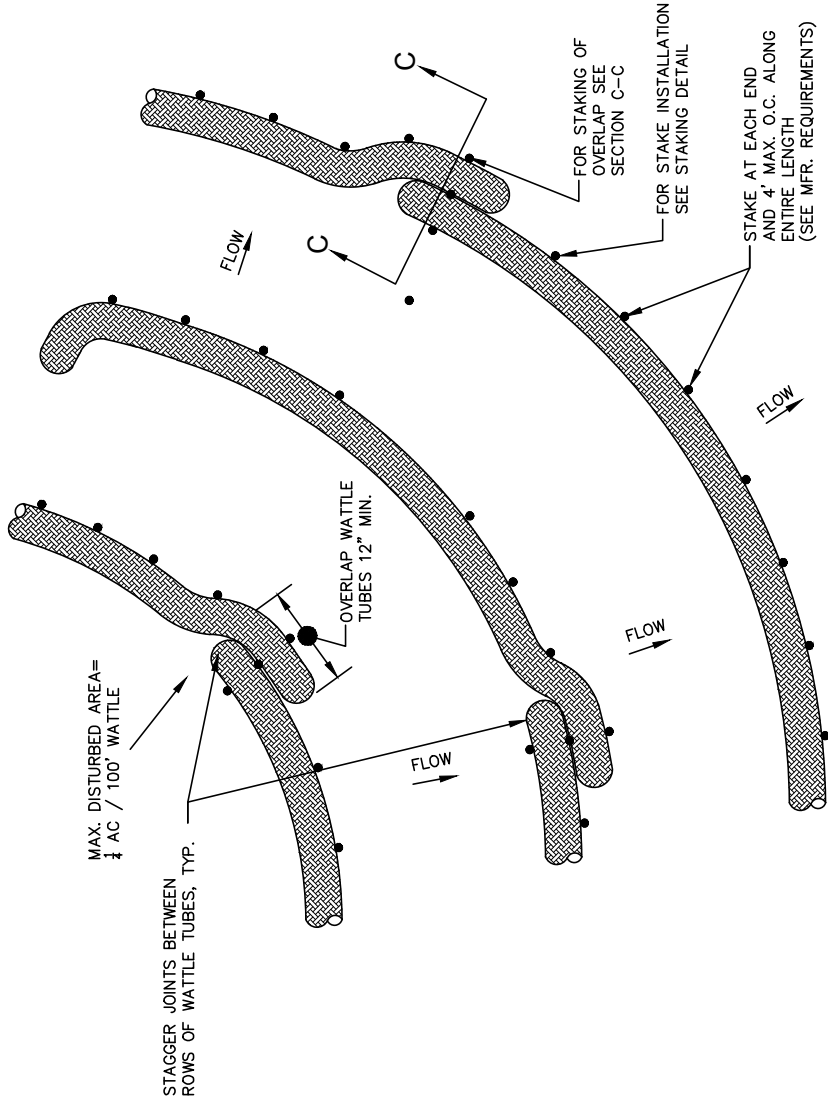
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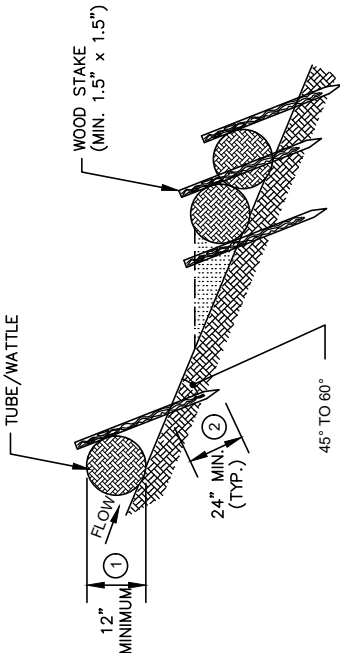
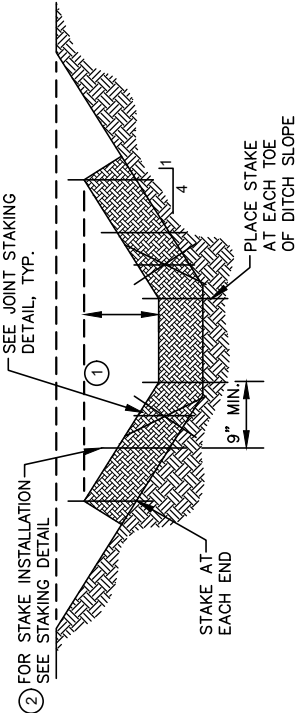
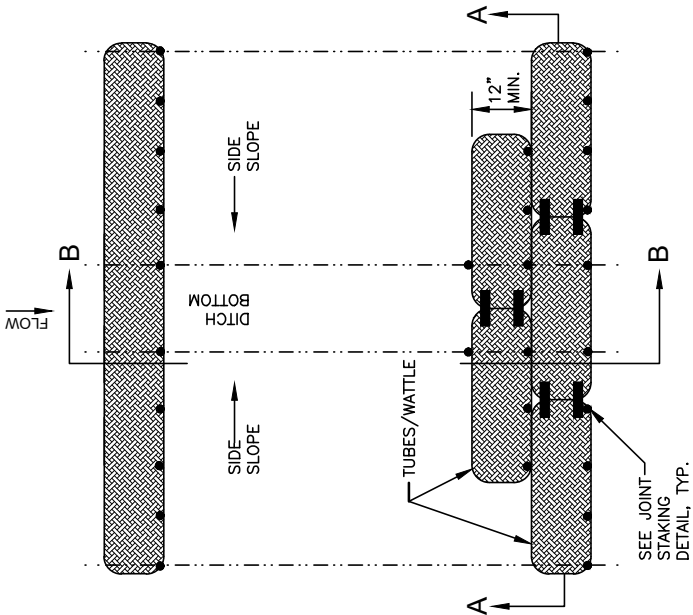
REVISION:

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- NOTES:
1. THE DEPTH AND WIDTH OF THE WEIR SECTION OF THE TUBE/WATTLE SHALL BE DESIGNED TO PASS THE 2yr/24hr OR 5yr/24hr STORM EVENT WITHOUT OVERTOPPING THE CHANNEL.
 2. STAKE PER MANUFACTURERS RECOMMENDATIONS.
 3. DRAWING SYMBOL — >> — >> — >>

TUBES AND WATTLES DETAILS



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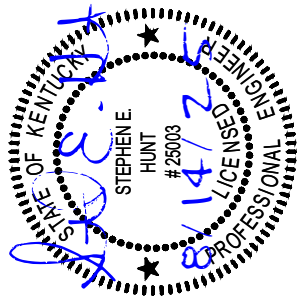
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6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFPD
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

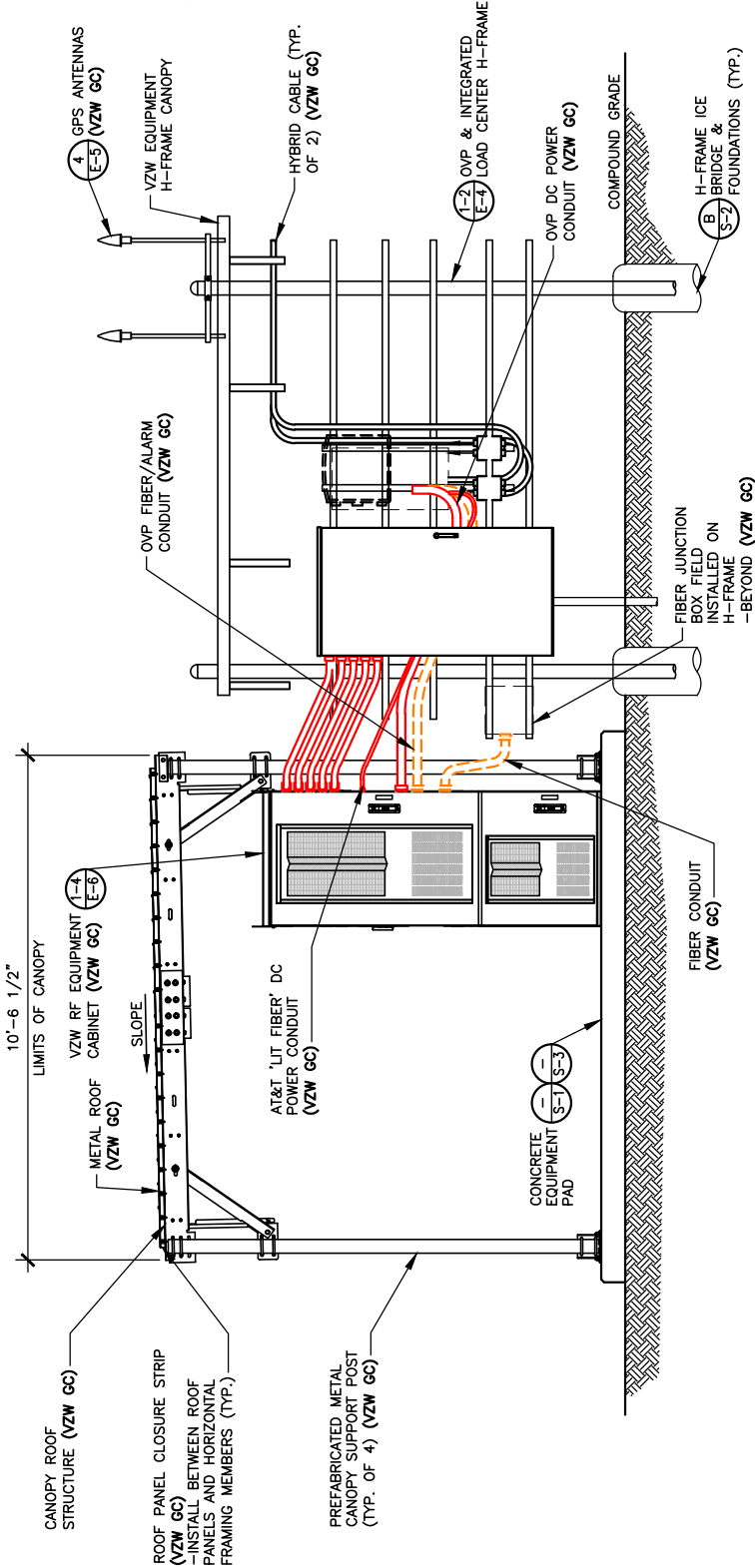
SHEET TITLE:

DRAWING NO.

D-3

REVISION:

8

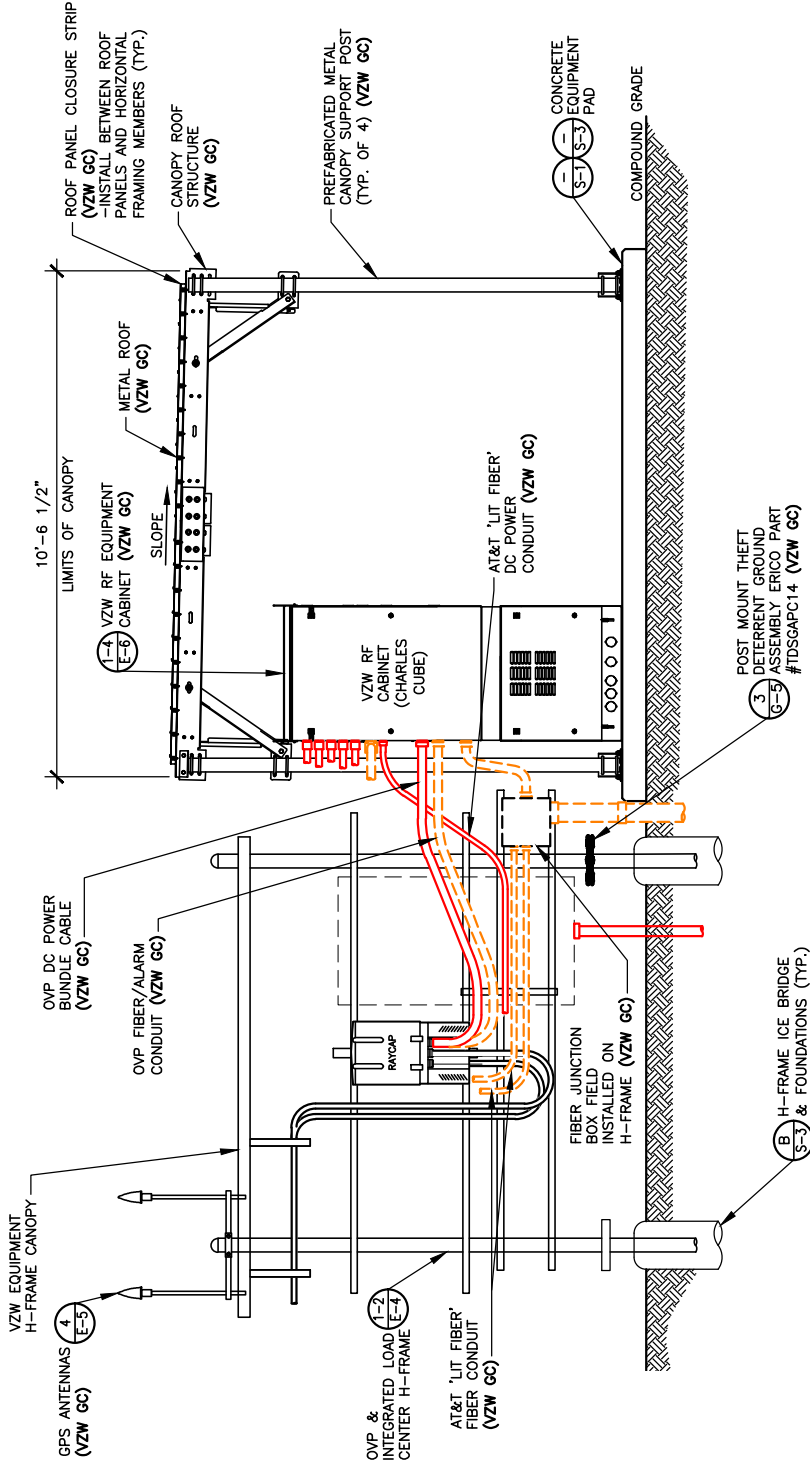


FRONT ELEVATION

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

NOTE:

VERIZON WIRELESS 6'-6"x10'-6"
RADIO EQUIPMENT CANOPY
(CANOPY DWGS. SUPPLIED BY
MANUFACTURER) (VZW GC)
-COMMSCOPE P/N 860676982-001



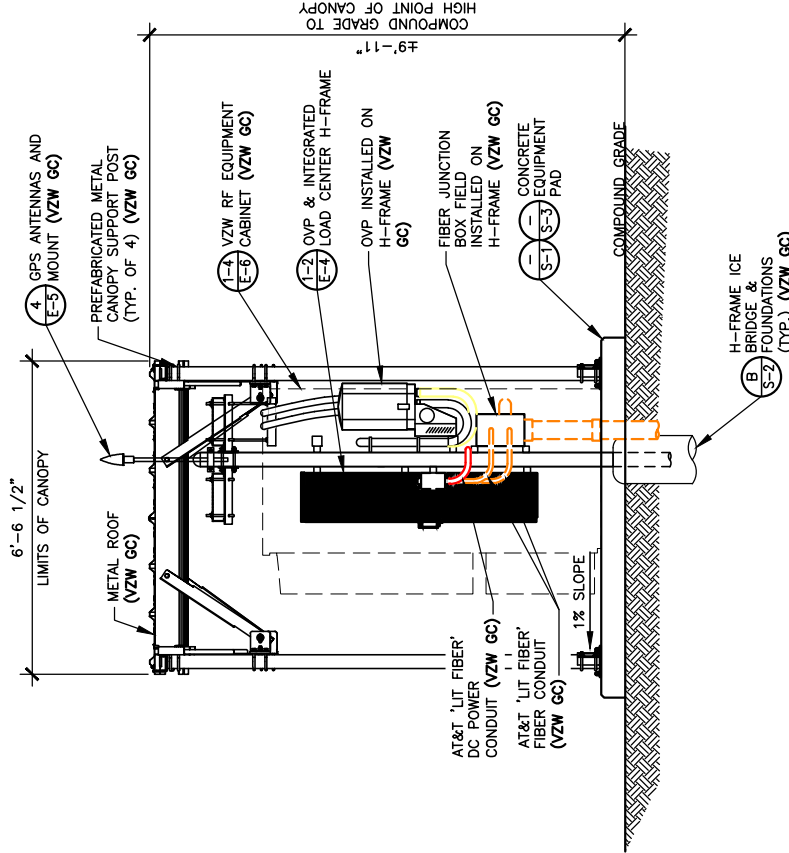
REAR ELEVATION

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

NOTE:
CANOPY ROOF PANELS PROFILE R/PBR.
PROVIDE 1.7% DENSITY POLYETHYLENE
FOAM PANEL CLOSURE STRIPS 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"

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)	
C3	• COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C4	• COMBINATION WARNING (SEE NOTE 2)	
C5	• S.D.S.	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES

—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





DANGER
LEAD ACID BATTERIES
CORROSIVE LIQUIDS (ELECTROLYTE)
ENERGIZED ELECTRICAL CIRCUITS
NO SMOKING



DANGER
HI-CAD BATTERIES
CORROSIVE LIQUIDS (ELECTROLYTE)
ENERGIZED ELECTRICAL CIRCUITS
NO SMOKING



FRONT



REAR

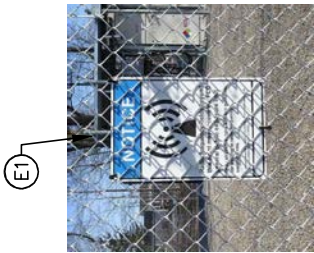


FIGURE 1 – EQUIPMENT CABINET SIGNAGE

PROPANE GENERATOR

REQUIRED SIGNS:	LOCATIONS:
• "DANGER PROPANE"	INSTALL ON PROPANE TANK (SEE FIGURE 7)
• HAZARD DIAMOND	
• "DANGER PROPANE"	INSTALL ON GENERATOR
• NOTICE SIGN	

P1 P2 P3

P1

P2

P3



FIGURE 7 – PROPANE TANK & GENERATOR SIGNAGE

E.M.E. SIGNAGE NOTES:

VZW GC SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY E.M.E. SIGNAGE (SEE FIGURE 9) IF REQUIRED, ANY REQUIRED E.M.E. SIGNAGE WILL BE INSTALLED IN ACCORDANCE WITH THE SITE SPECIFIC PRE-E.M.E. REPORT AND MOUNT AS APPROPRIATE FOR THE SIGN LOCATION.

S1



E1



E2



E3



E4



B1



FIGURE 9 – TYPICAL E.M.E. SIGNAGE

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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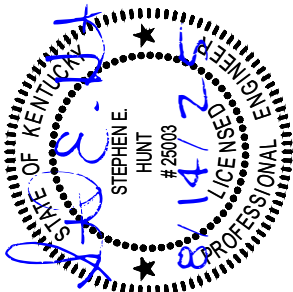
CHECKED BY:

DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
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GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

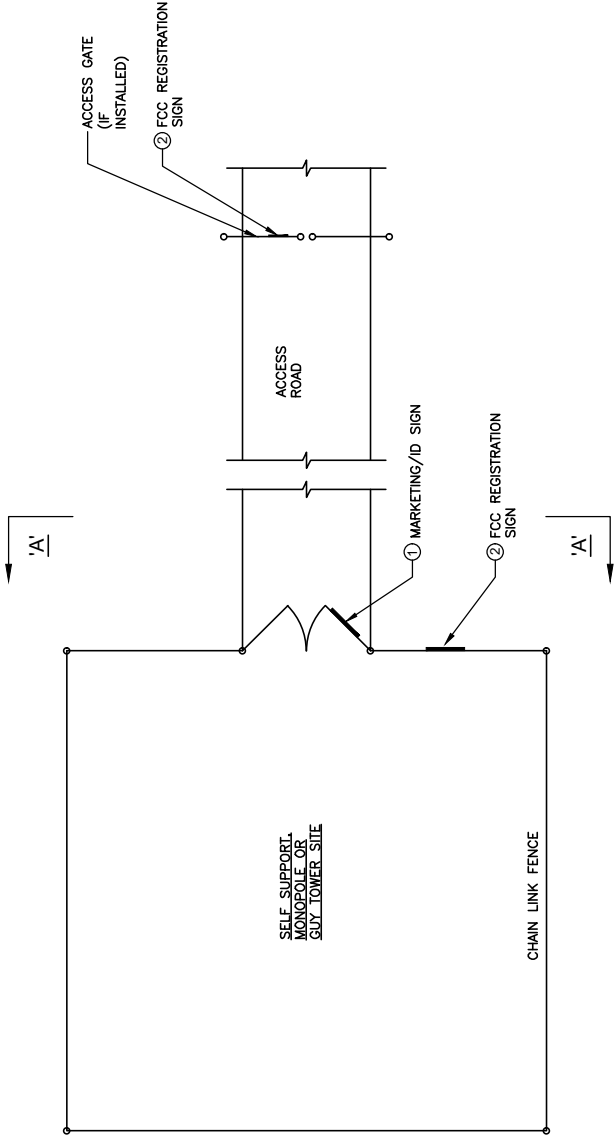
D-4 (VZW)

REVISION:

8

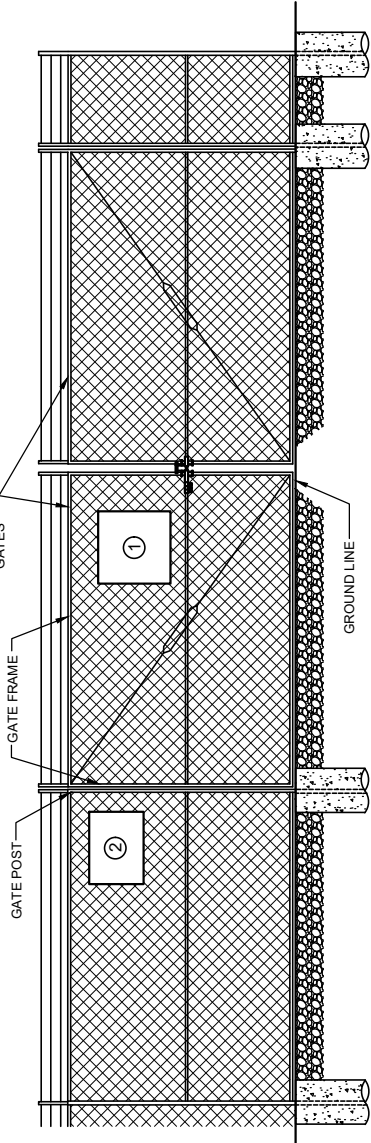
NOTES:

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONELL PER VERIZON WIRELESS RFE SIGNAGE & DEMARCATION POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

SCALE: N. T. S.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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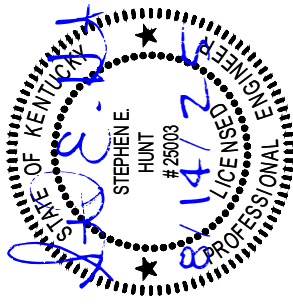
CHECKED BY:

DS

REVISIONS

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LONGITUDE:

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SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

D-5 (BTS)

REVISION:

8

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

STRUCTURAL NOTES

1. 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

2. STRUCTURAL STEEL:

PIPE - ASTM A53 TYPE E OR S GRADE B, OR ASTM A501.
STRUCTURE FINISH - AFTER FABRICATION ACCORDING TO ASTM A123.

3. 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 PREDETERMINE 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.

4. CONCRETE WORK:

CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING
COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE ONE (1) CYLINDER SAMPLE
TAKEN PER TRUCK OR FOUR (4) TOTAL FOR BUILDING FOUNDATION AND THE CONCRETE
MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES
OF TESTING RESULTS TO VERIZON WIRELESS AND TOWER OWNER CONSTRUCTION
MANAGERS. FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION
FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY
ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS
SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

SPECIFICATIONS - LATEST EDITION OF ACI-318 - BLDG. FOUNDATION
AS ADOPTED BY THE STATE OF F c = 4000 PSI @ 28 DAYS
KENTUCKY
2'-4" SLUMP

MATERIALS - REINFORCING ASTM A615, GRADE 60
- ANCHOR BOLTS ASTM F1554 A36

REINFORCING COVERS - FOOTINGS 2"
TOP
BOTTOM/SIDES 3"

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

BAR SIZE #4 ANCHORAGE 12" SPLICE (OTHER) 25" ANCHORAGE (TOP) 25" SPLICE (TOP) 33"

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (3/4")

5. 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% ($\pm 1\%$) AIR ENTRAINMENT.
- PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.

GENERATOR PAD

FOUNDATION SECTION

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

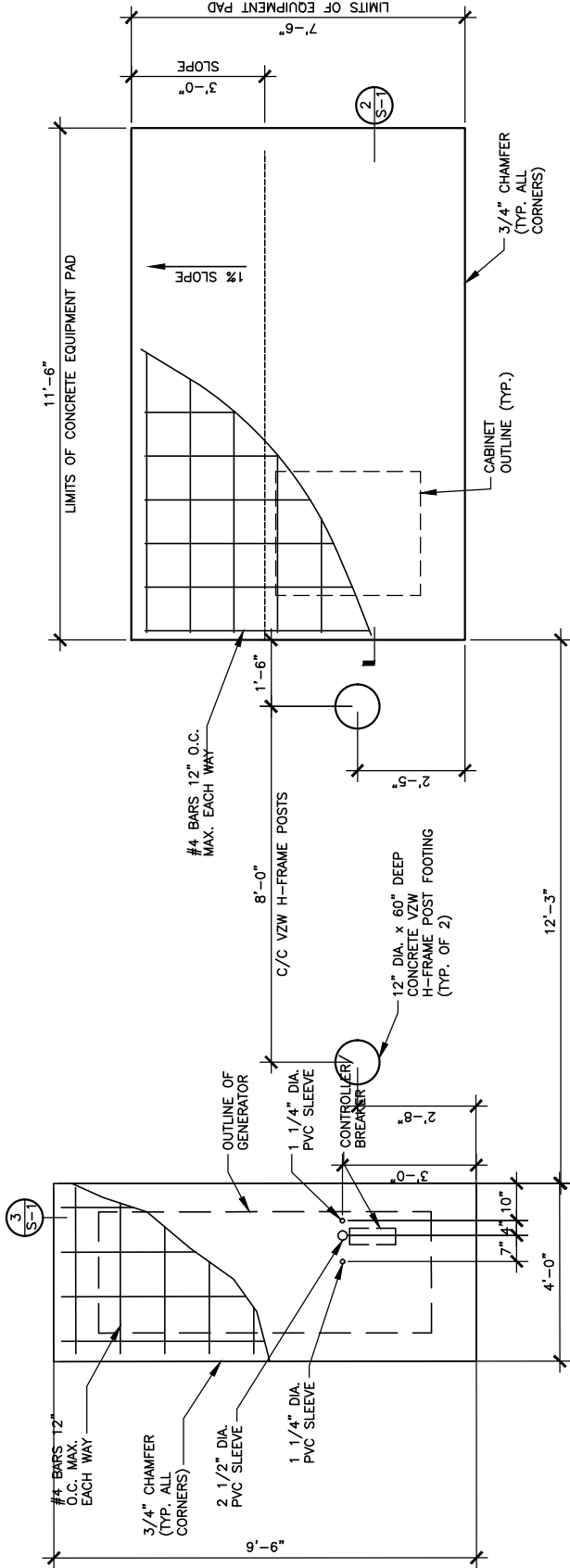
3
S-1

EQUIPMENT PAD

FOUNDATION SECTION

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

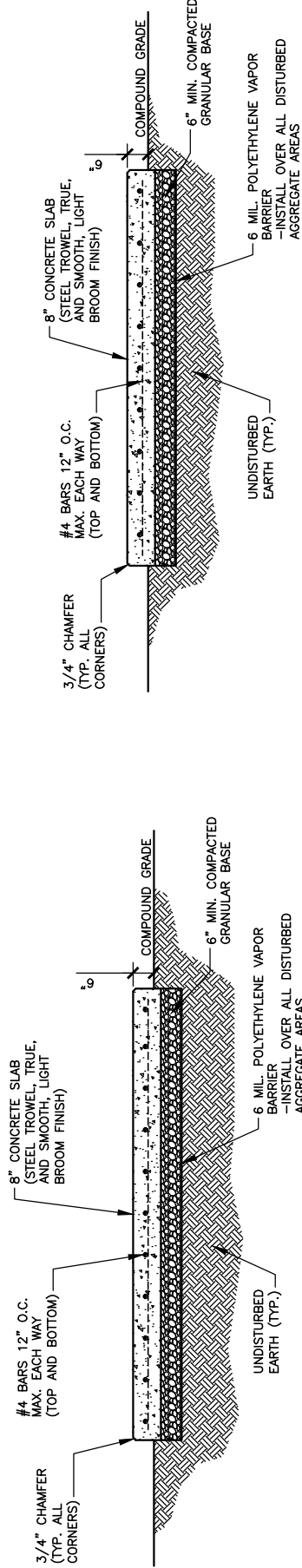
2
S-1



EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN

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

1
S-1



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
UNIFORMED SERVICES OF AMERICA (USAA) AT
LEAST 48 HOURS BEFORE COMMENCING WORK.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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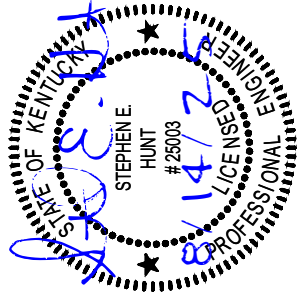
CHECKED BY:

DS

REVISIONS

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3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED

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NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

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3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

S-1

REVISION:

8

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
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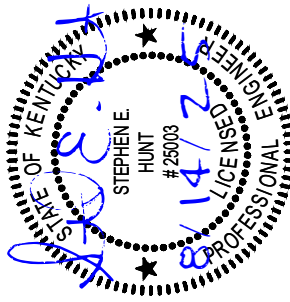
CHECKED BY:

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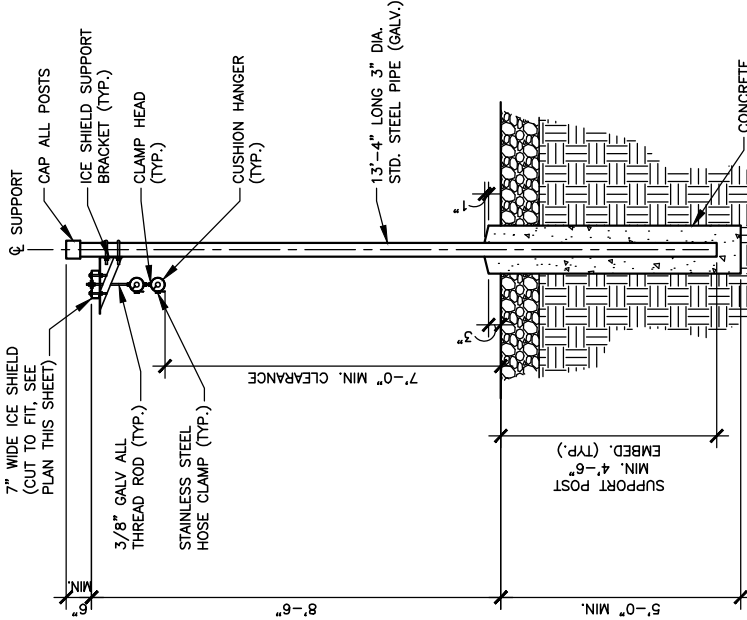
SHEET TITLE:

DRAWING NO.

S-2

REVISION:

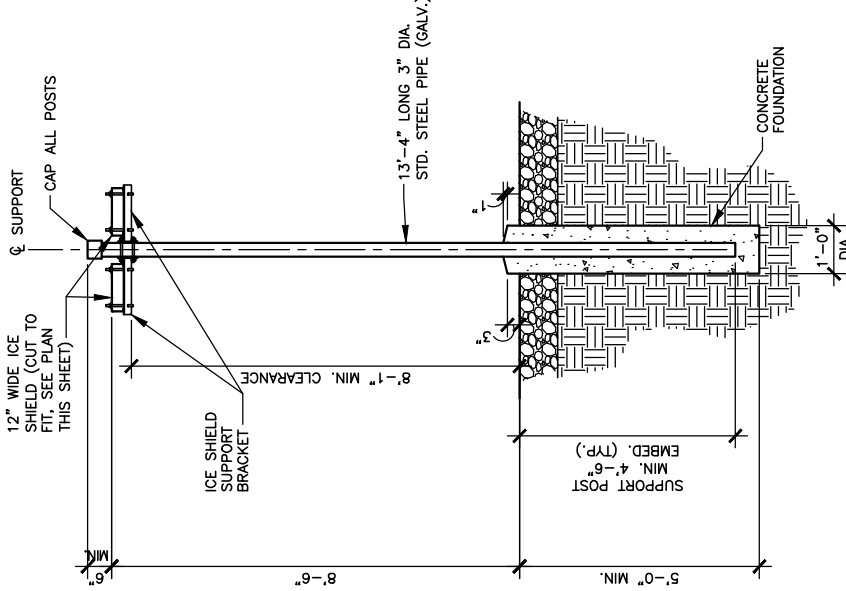
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ICE BRIDGE SECTION

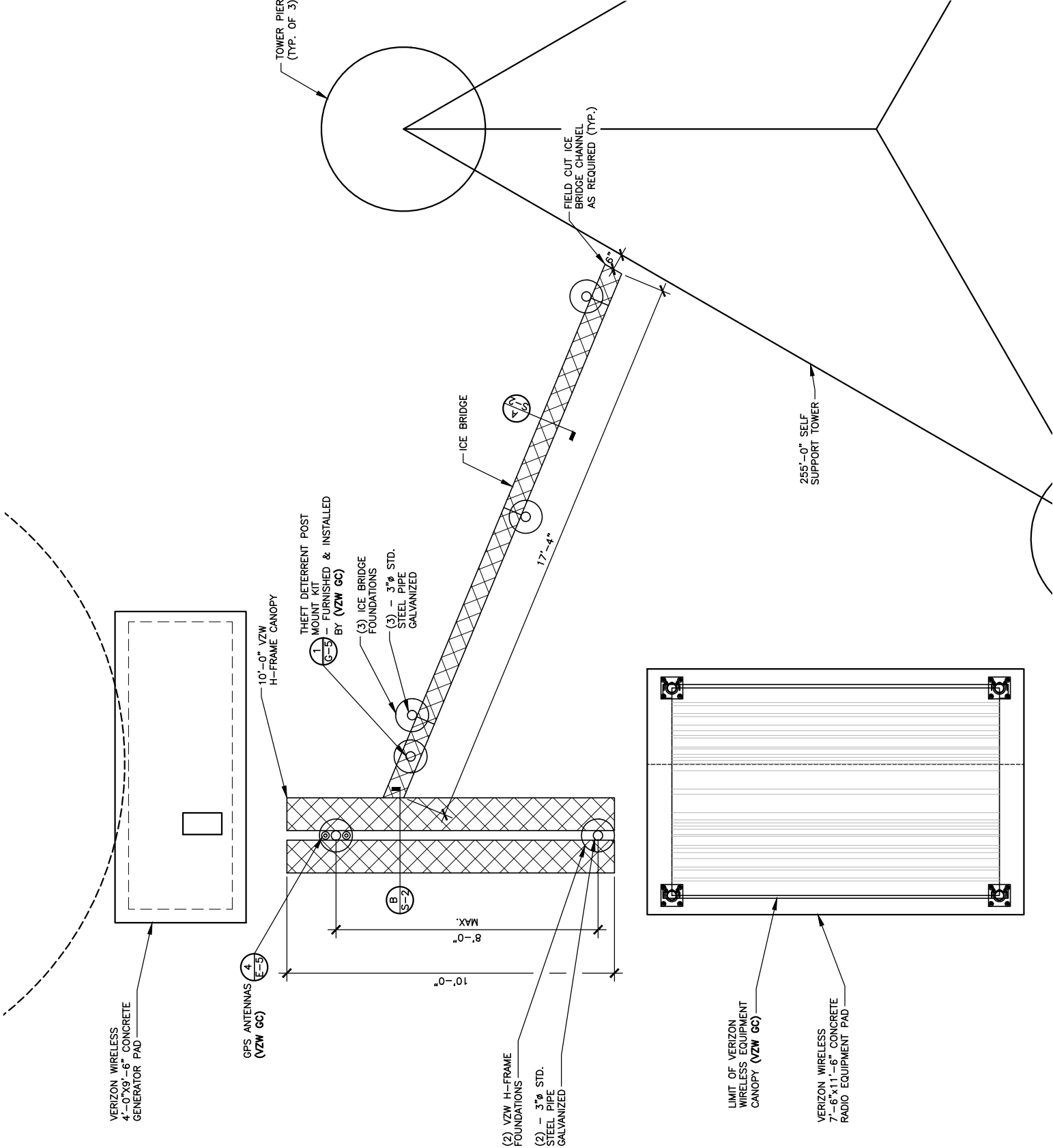
SCALE: 1/4" = 1'-0"

NOTE:
CONTRACTOR MAY SUBSTITUTE 12" ICE BRIDGE FOR THE 7" SECTION TO THE TOWER IF NO ADDITIONAL COST TO VZW



VZW H-FRAME CANOPY SECTION

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



ICE BRIDGE PLAN

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



Know what's below.
Call before you dig.
Call 811 or visit 811.org

1-800-752-6007

PER KENTUCKY STATE LAW, IT IS AGAINST THE PUBLIC INTEREST TO INTERRUPT UNDERGROUND UTILITY LINES WITHOUT KNOWING THE LOCATION. SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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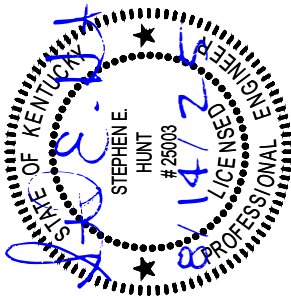
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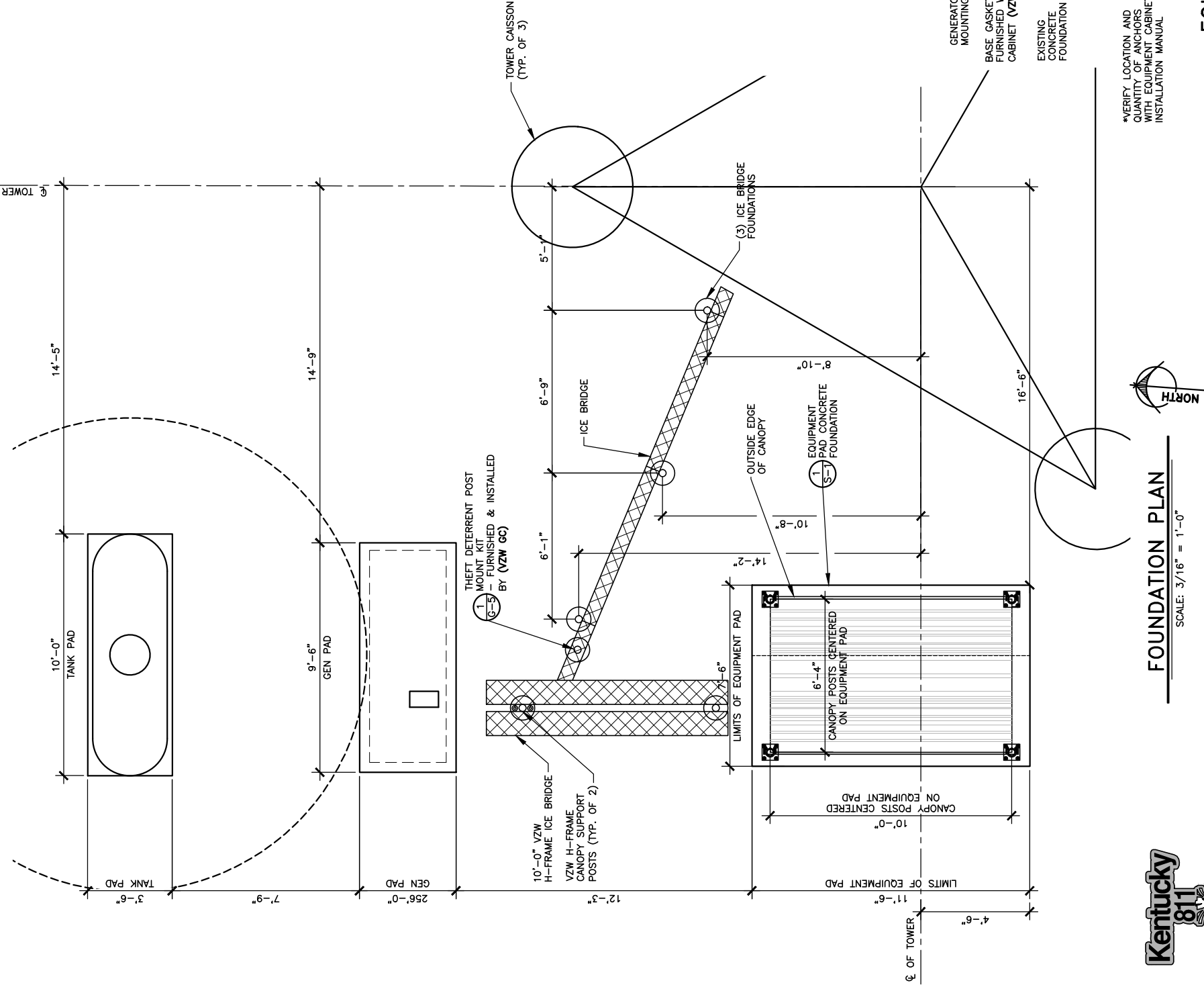
SHEET TITLE:

DRAWING NO.

S-3

REVISION:

8



FOUNDATION PLAN

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



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

SCALE: N. T. S.

EQUIPMENT CABINET MOUNTING DETAIL

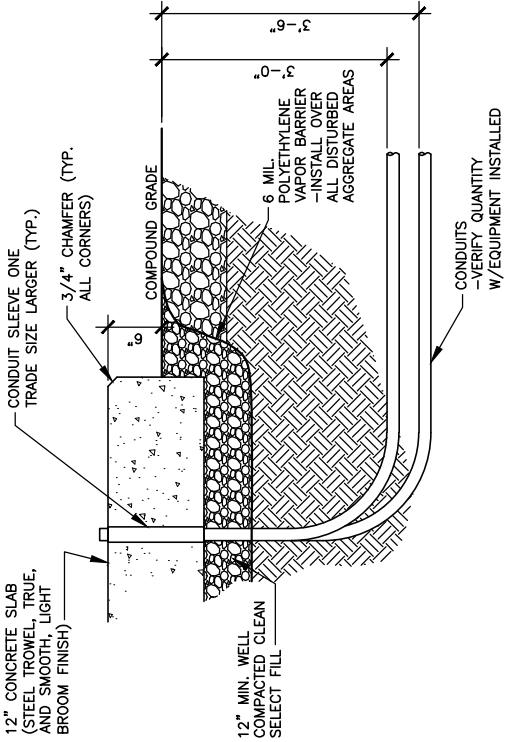
3

S-3

CANOPY BASE PLATE ANCHORING DETAIL

4

SCALE: N. T. S.

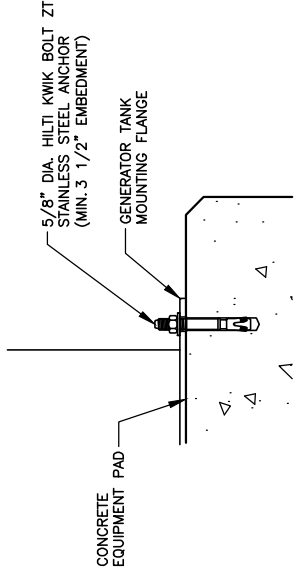


CONDUIT PENETRATION DETAIL

1

S-3

SCALE: N.T.S.

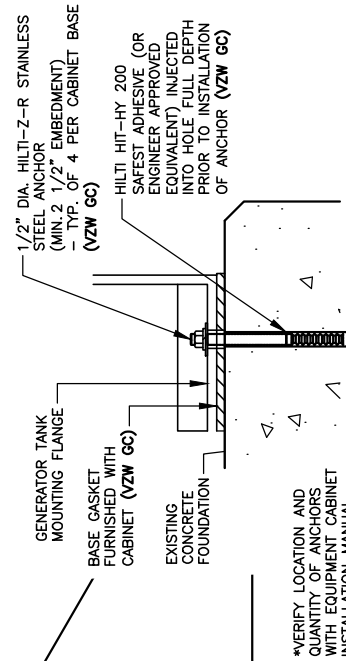
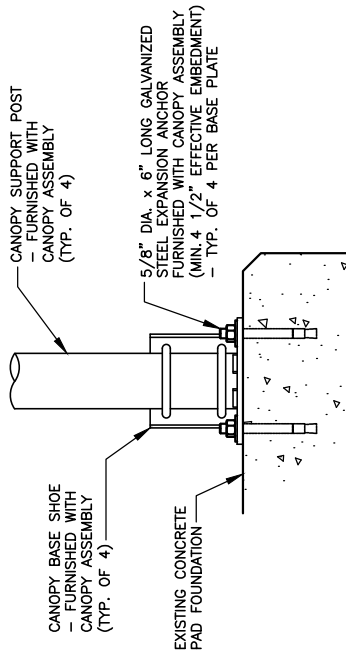


GENERATOR ANCHOR DETAIL

2

S-3

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



PREPARED FOR:

PREPARED BY:

1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
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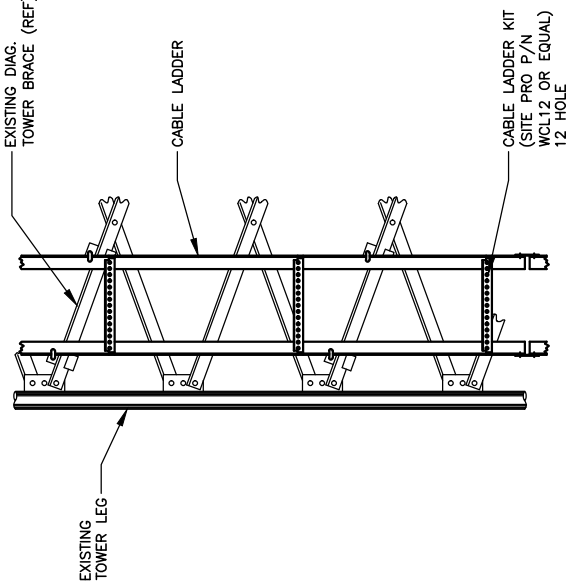
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DRAWING NO. TE-1

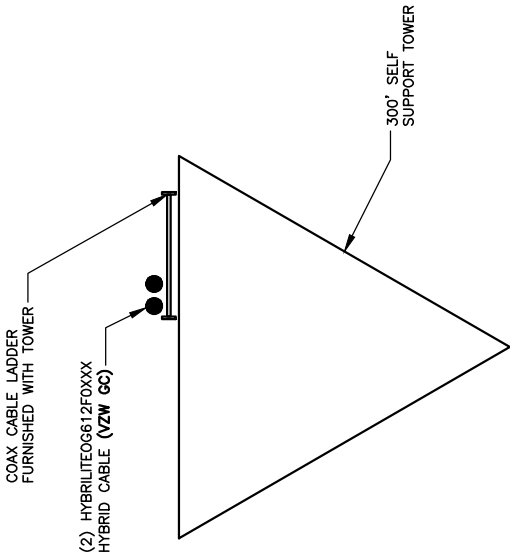
REVISION: 8

NOTE:

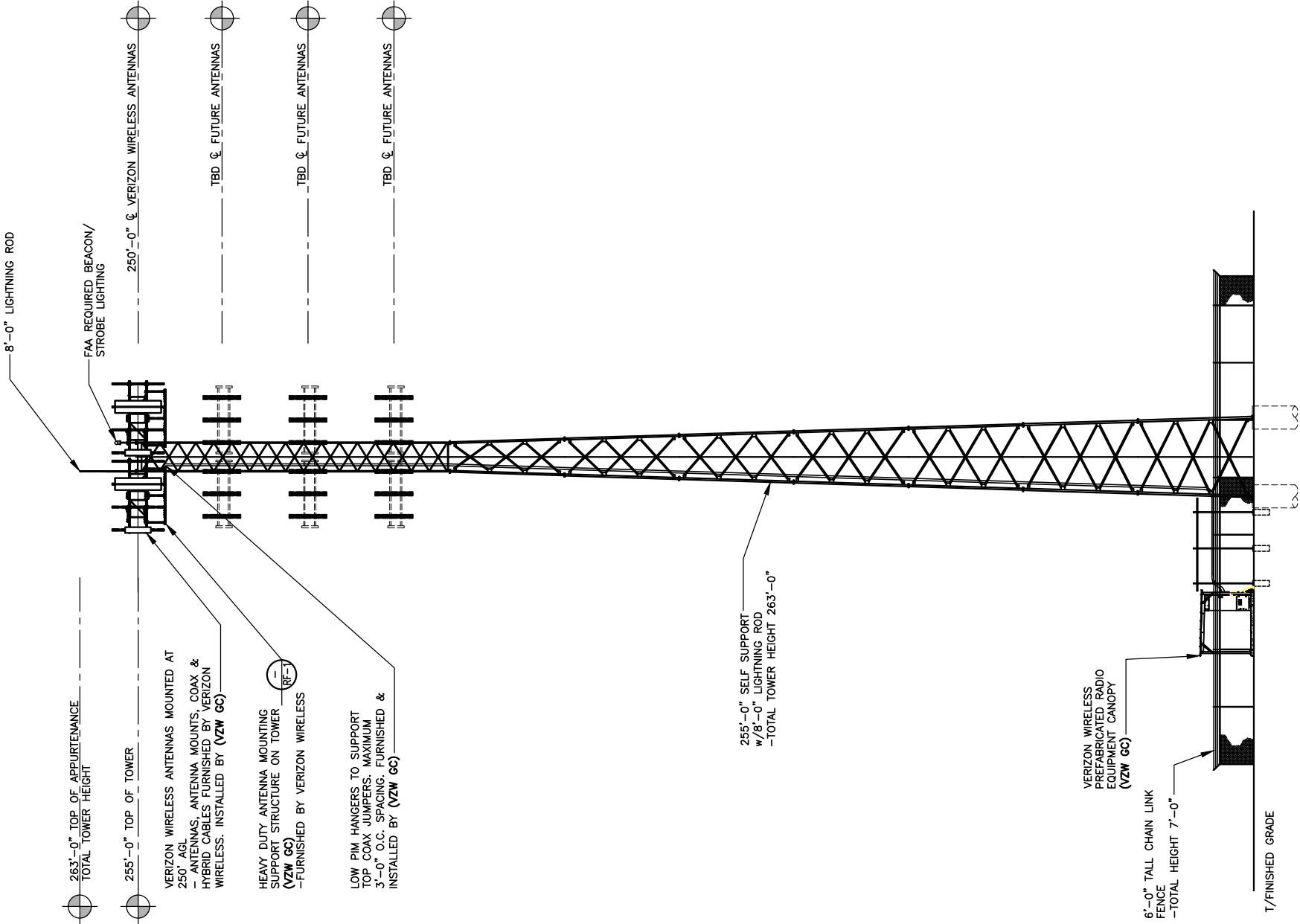
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST THE FINAL RADIO ENGINEERING PLAN PROVIDED BY VERIZON LEGAL BUSINESS ENTITY g/b/a VERIZON WIRELESS (VZW GC)
- ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.



CABLE LADDER ATTACHMENT DETAIL 2
SCALE: N.T.S.



COAX PLAN
SCALE: N.T.S.



TOWER ELEVATION 1
SCALE: N.T.S.

1. ONE 4" SCH40 PVC FIBER CONDUIT W/ (3) 1" HDPE SMOOTH WALL INNERDUCTS AND PULLTAPES SHALL BE INSTALLED FROM VERIZON WIRELESS (PER PLANS) OUTSIDE OF THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:
 - THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUATZIEHUBBELL POWER SYSTEMS MODEL PC243621657B4 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.
 - THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE, AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
3. CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S).
4. ONE 4" SCH40 PVC FIBER CONDUIT W/ (3) 1" HDPE SMOOTH WALL INNERDUCTS AND PULLTAPES SHALL BE INSTALLED FROM VERIZON WIRELESS (PER PLANS) OUTSIDE OF THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE THE HANDHOLE MODEL AS FOLLOWS:
 - THE VERIZON FIBER CONDUIT HANDHOLES SHALL BE OLDCASTE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUATZIEHUBBELL POWER SYSTEMS MODEL PC243621657B4 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.
 - THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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CHECKED BY: _____ DS

REVIEWS		WAM	ADDED COUNTY TOWER MARK
8.	08/14/25	JAE	CONSTRUCTION ISSUE
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/20/25	MDR	ANNT. REVISED PER RFDS
4.	10/07/24	JAE	CONSTRUCTION ISSUE
3.	10/04/24	DWS	ADDED PROPANE GEN
2.	09/04/24	DWS	RF REVISED
NO.	DATE	BY DESCRIPTION	

A circular professional engineer seal for the State of Kentucky. The outer ring contains the text "STATE OF KENTUCKY" on the left and "PROFESSIONAL ENGINEER" on the right, separated by two stars. The inner circle contains the name "STEPHEN E. HUNT" and the license number "# 25003". A handwritten date "8/14/22" is written across the seal. A blue ink signature is written over the seal.

SITE NAME:

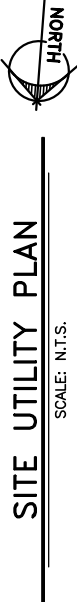
ADDRESS: 3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

770 70' 77 77" 77

LONGITUDE:

SITE NUMBER:

DRAWING NO.	REVISION:
E-1	8



SITE UTILITY PLAN

SCALE: N.T.S.

ELECTRICAL NOTES:

1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER IMC WITH WEATHERPROOF FITTINGS.



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

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



PREPARED BY:

TeleCAD Wireless

1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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DRAWN BY:	MJB
CHECKED BY:	DS

REVISIONS	
8	08/14/25 WAM ADDED COUNTY TOWER MAP
7	08/11/25 JAE CONSTRUCTION ISSUE
6	07/25/25 JAE CONSTRUCTION ISSUE
5	07/10/25 MDR ANNT. REVISED PER RFDS
4	10/07/24 JAE CONSTRUCTION ISSUE
3	10/04/24 DWS ADDED PROPANE GEN
2	09/04/24 DWS RF REVISED
NO.	DATE
BY	DESCRIPTION

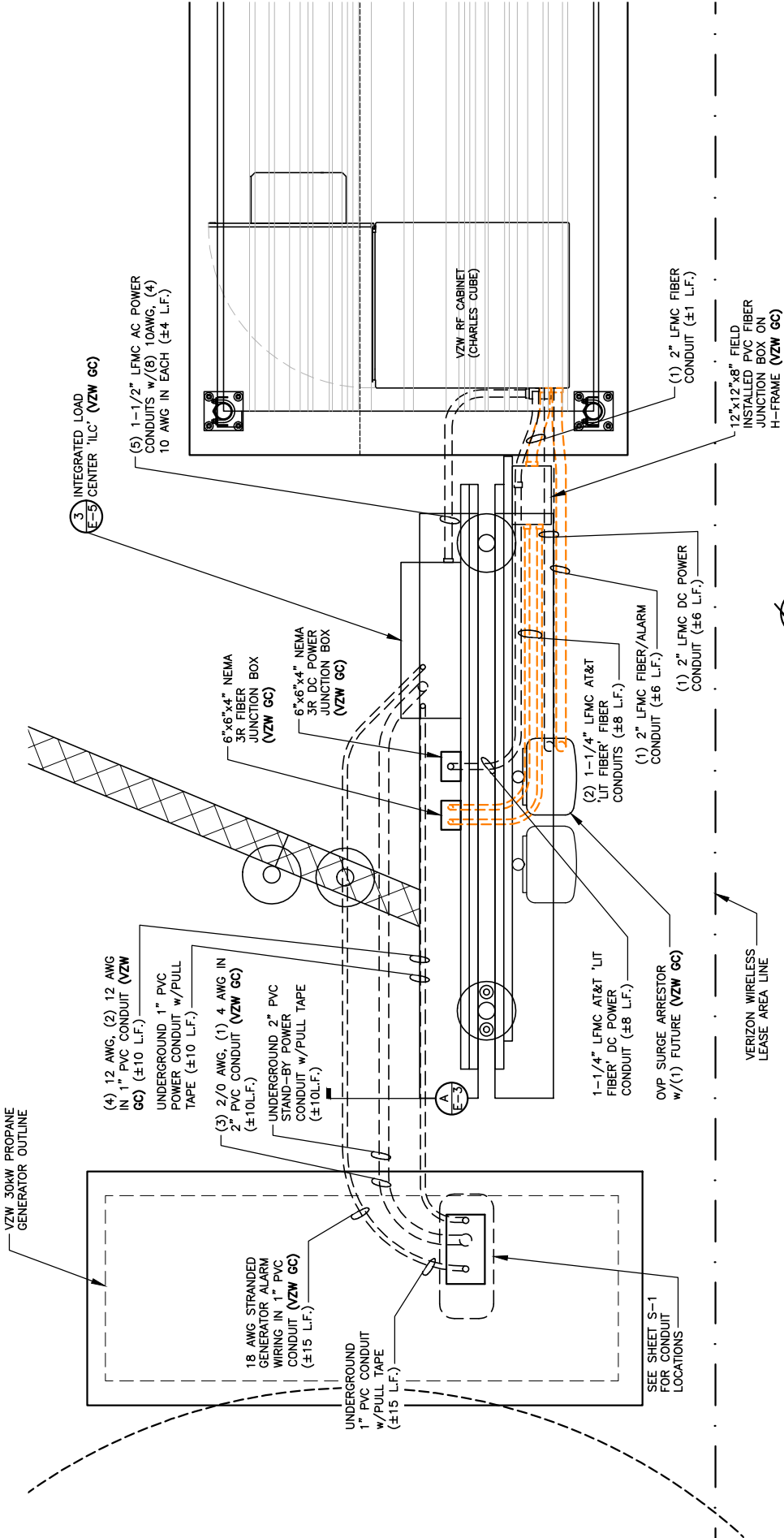
ENGINEER'S STAMP:

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:	HWY 243
ADDRESS:	3178 MINORS BRANCH RD GRAVEL SWITCH, KY 40328
COUNTY:	CASEY
LATITUDE:	37° 30' 33.53" N
LONGITUDE:	84° 57' 23.05" W
SITE NUMBER:	US-KY-5186

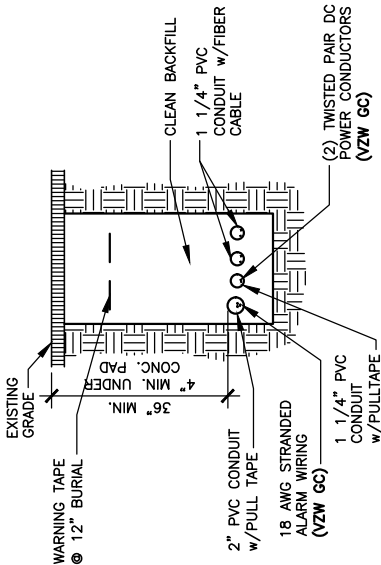
SHEET TITLE:

DRAWING NO.	E-3
REVISION:	8



EQUIPMENT PAD UTILITY PLAN

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



RF CABINET FEEDER TRENCH SECTION DETAIL

SCALE: N.T.S.

- ELECTRICAL NOTES:
1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT AND GENERATOR 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 AND EQUIPMENT ABOVE CONCRETE PAD SHALL BE LFMC WITH DIAMETER AS NOTED ON PLAN WITH WEATHERPROOF FITTINGS.
 5. ALL GENERATOR CONDUITS SHALL BE INSTALLED REGARDLESS OF INITIAL GENERATOR INSTALLATION.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
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MJB

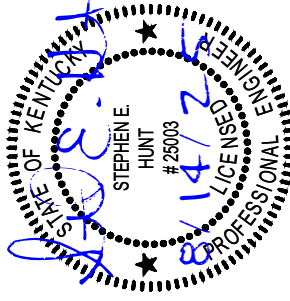
CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MOR	ANNT. REVISED PER RFDS
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HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

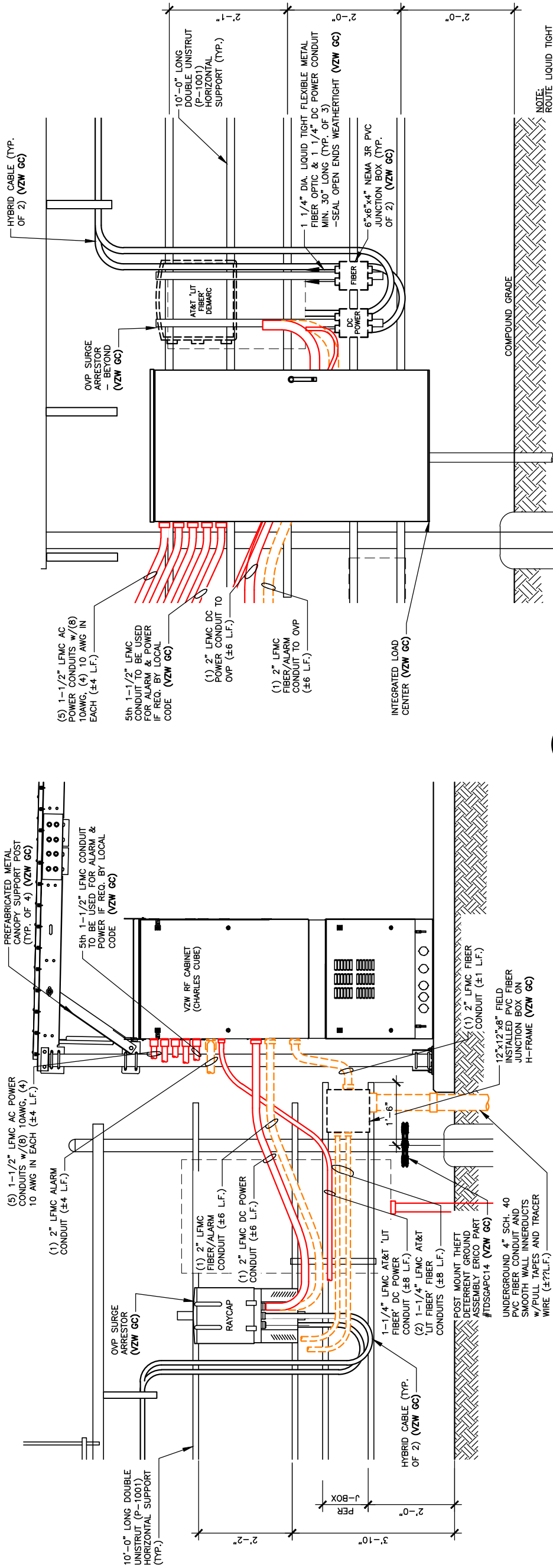
SHEET TITLE:

DRAWING NO.

E-4

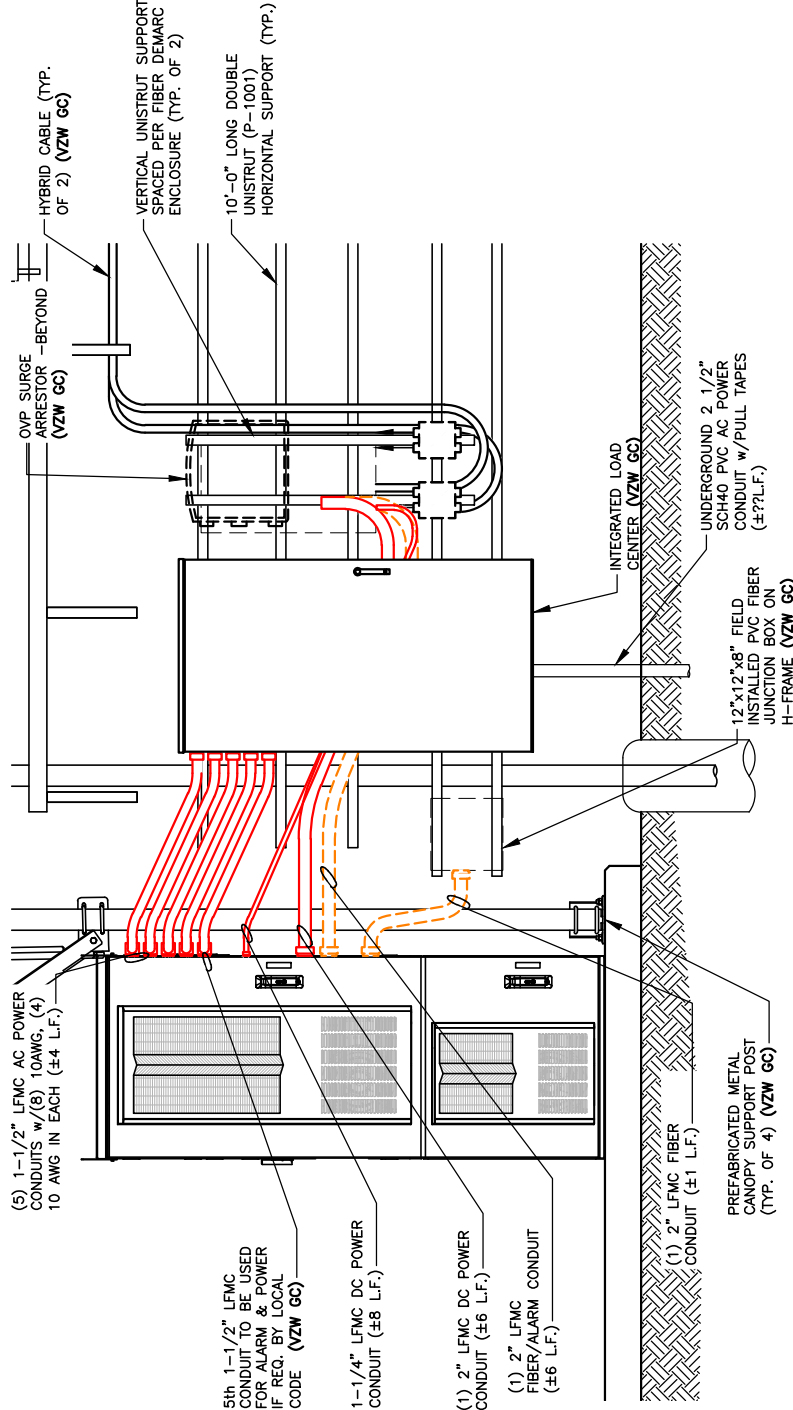
REVISION:

8



OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) - REAR

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



OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) - FRONT

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

ENLARGED OVP H-FRAME
ELEVATION (LIT FIBER DEMARC)

SCALE: 1/2" = 1'-0"

HYBRID CABLE (TYP.
OF 2) (VZW GC)

(5) 1-1/2" LFMC AC
POWER CONDUITS w/(8)
10AWG. (4) 10 AWG IN
EACH (±4 L.F.)

5th 1-1/2" LFMC
CONDUIT TO BE USED
FOR ALARM & POWER
IF REQ. BY LOCAL
CODE (VZW GC)

(1) 2" LFMC DC
POWER CONDUIT TO
OVP (±6 L.F.)

(1) 2" LFMC
FIBER/ALARM
CONDUIT TO OVP
(±6 L.F.)

INTEGRATED LOAD
CENTER (VZW GC)

COMPOUND GRADE

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

3
E-4

2
E-4

PREPARED FOR:



PREPARED BY:



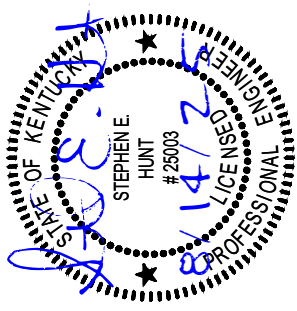
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CHECKED BY:	DS

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2	09/04/24 DWS RF REVISED
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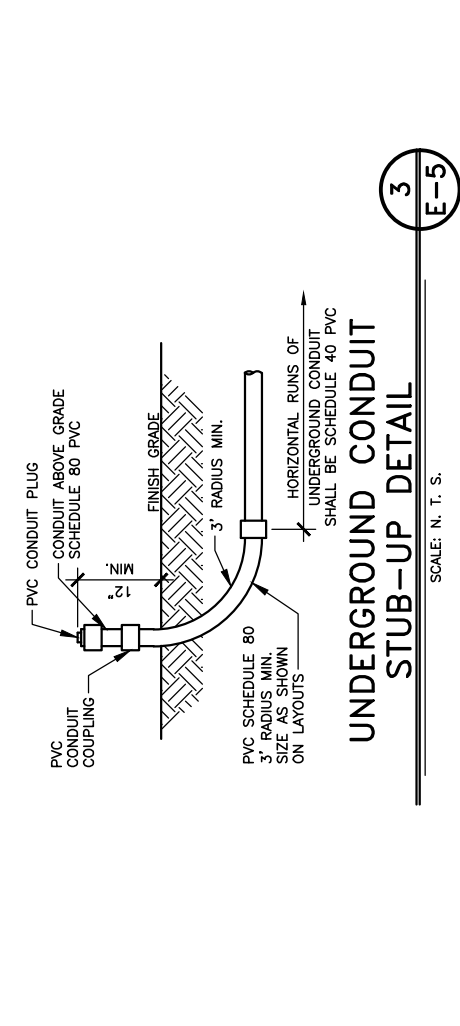
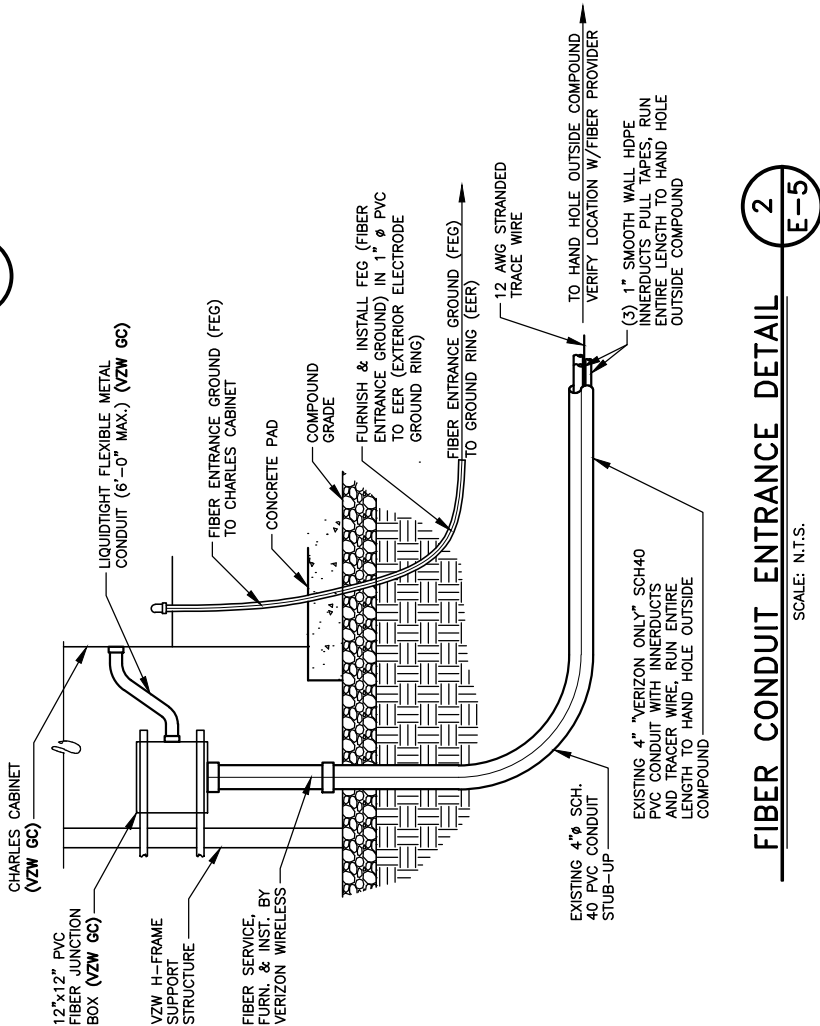
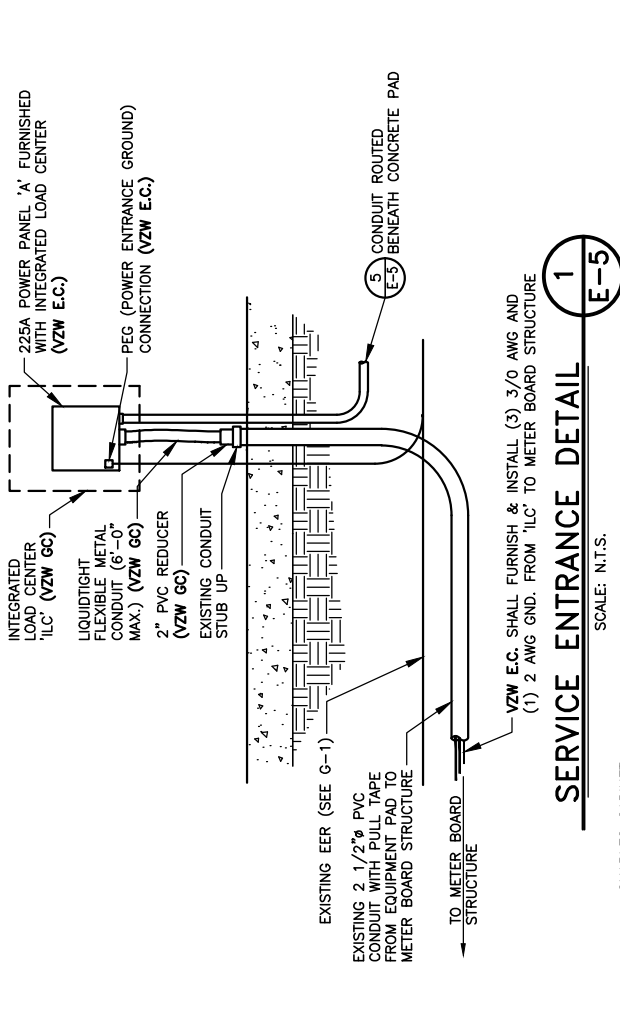
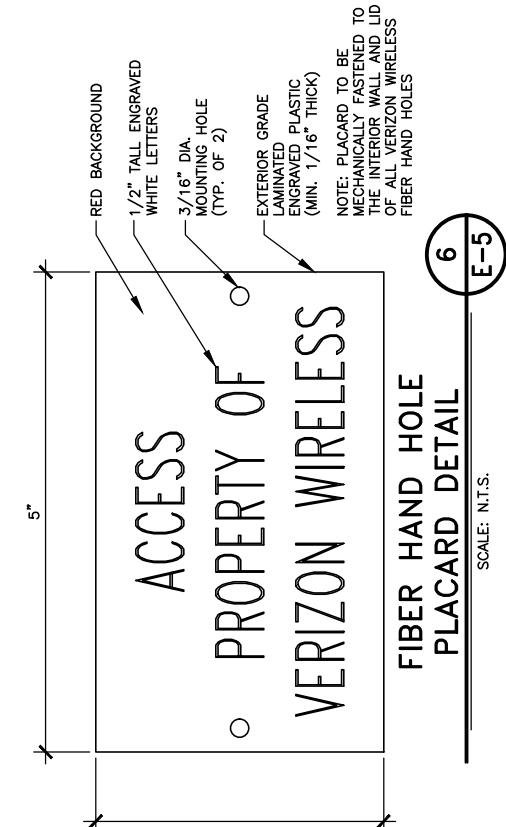
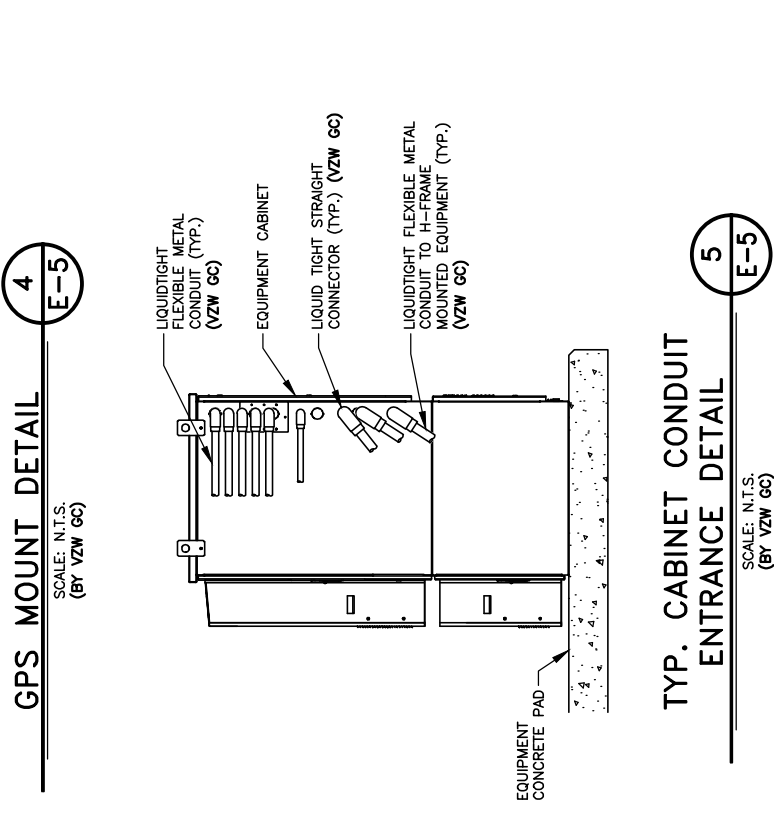
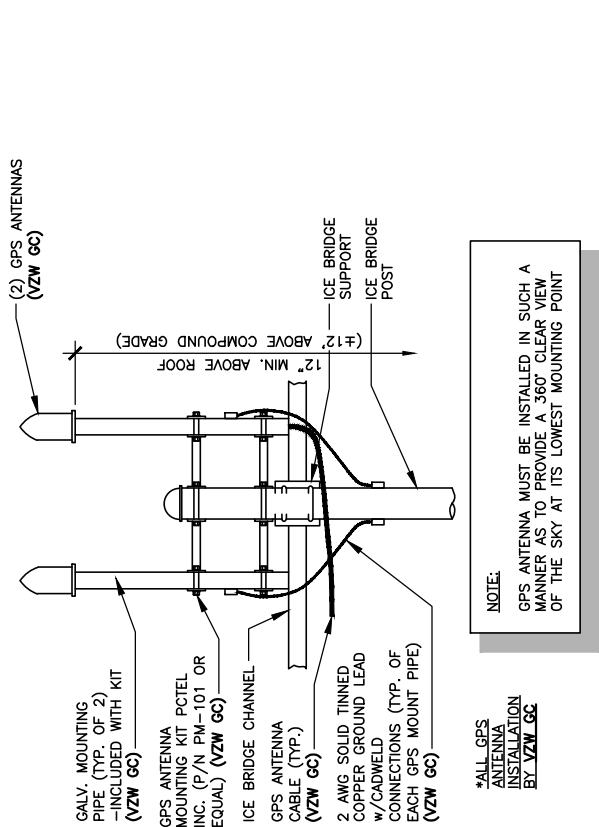
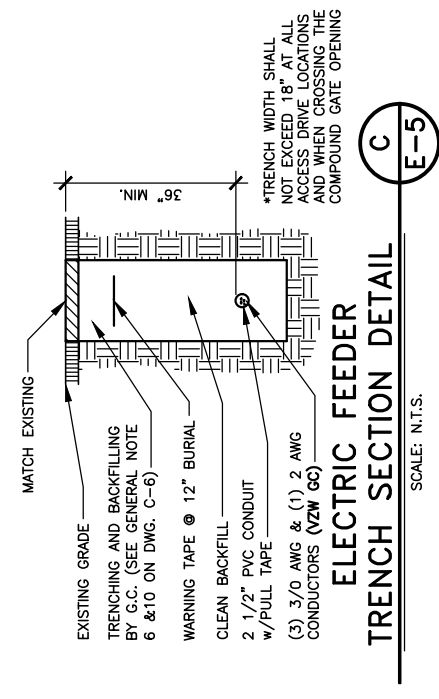
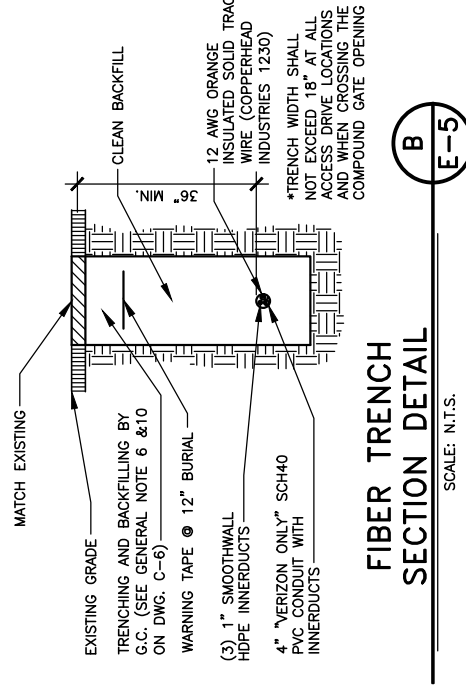
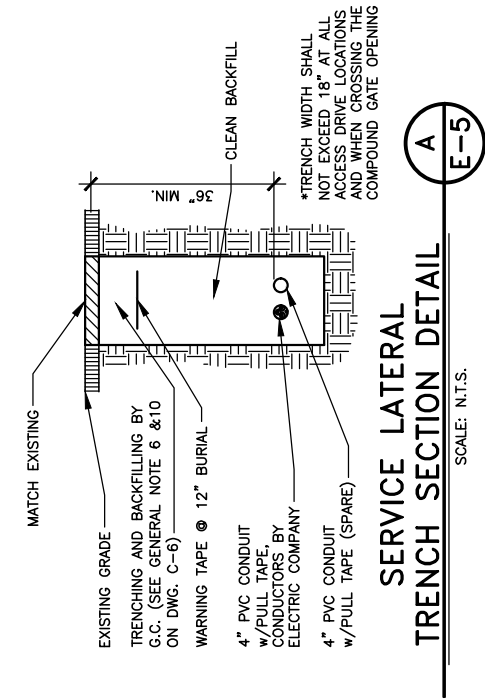


NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:	HWY 243
ADDRESS:	3178 MINORS BRANCH RD GRAVEL SWITCH, KY 40328
COUNTY:	CASEY
LATITUDE:	37° 30' 33.53" N
LONGITUDE:	84° 57' 23.05" W
SITE NUMBER:	US-KY-5186

SHEET TITLE:

DRAWING NO.	E-5
REVISION:	8



PREPARED FOR:



PREPARED BY:



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HIXSON, TN 37343
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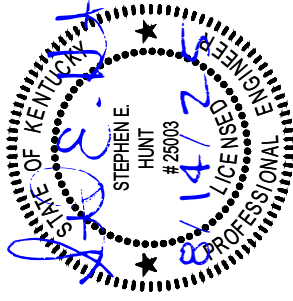
CHECKED BY:

DS

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NO.	DATE	BY	DESCRIPTION

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HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

E-6

REVISION:

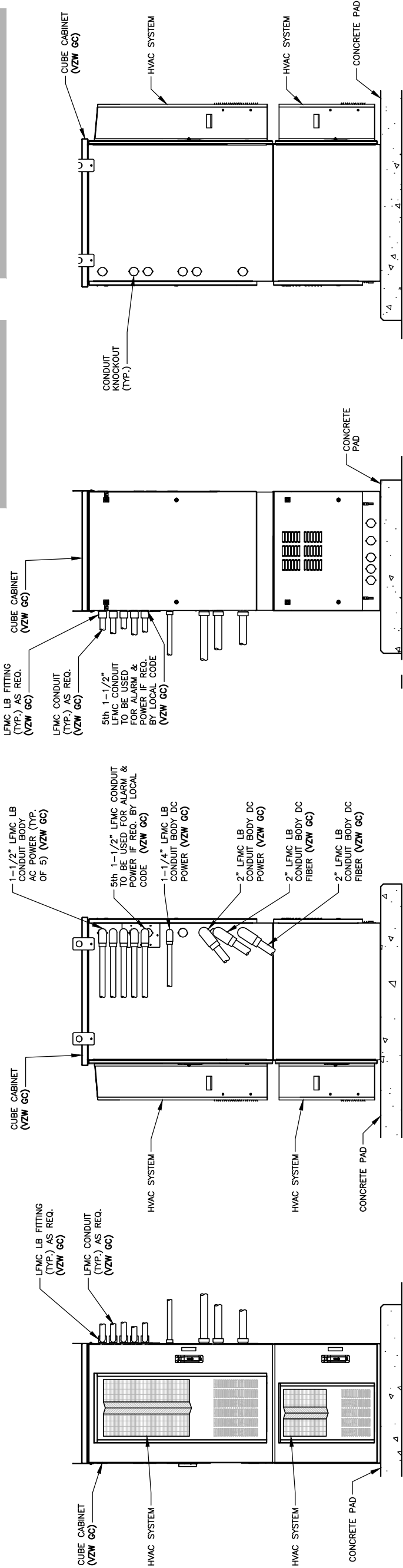
8

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

FRONT ELEVATION

SCALE: N.T.S.

1

E-6

RF CABINET

RIGHT ELEVATION

SCALE: N.T.S.

2

E-6

RF CABINET

REAR ELEVATION

SCALE: N.T.S.

3

E-6

RF CABINET

LEFT ELEVATION

SCALE: N.T.S.

4

E-6

PREPARED FOR:



PREPARED BY:



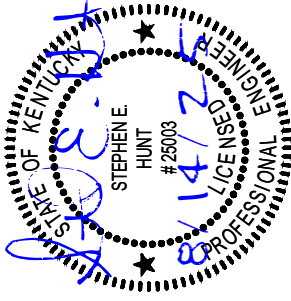
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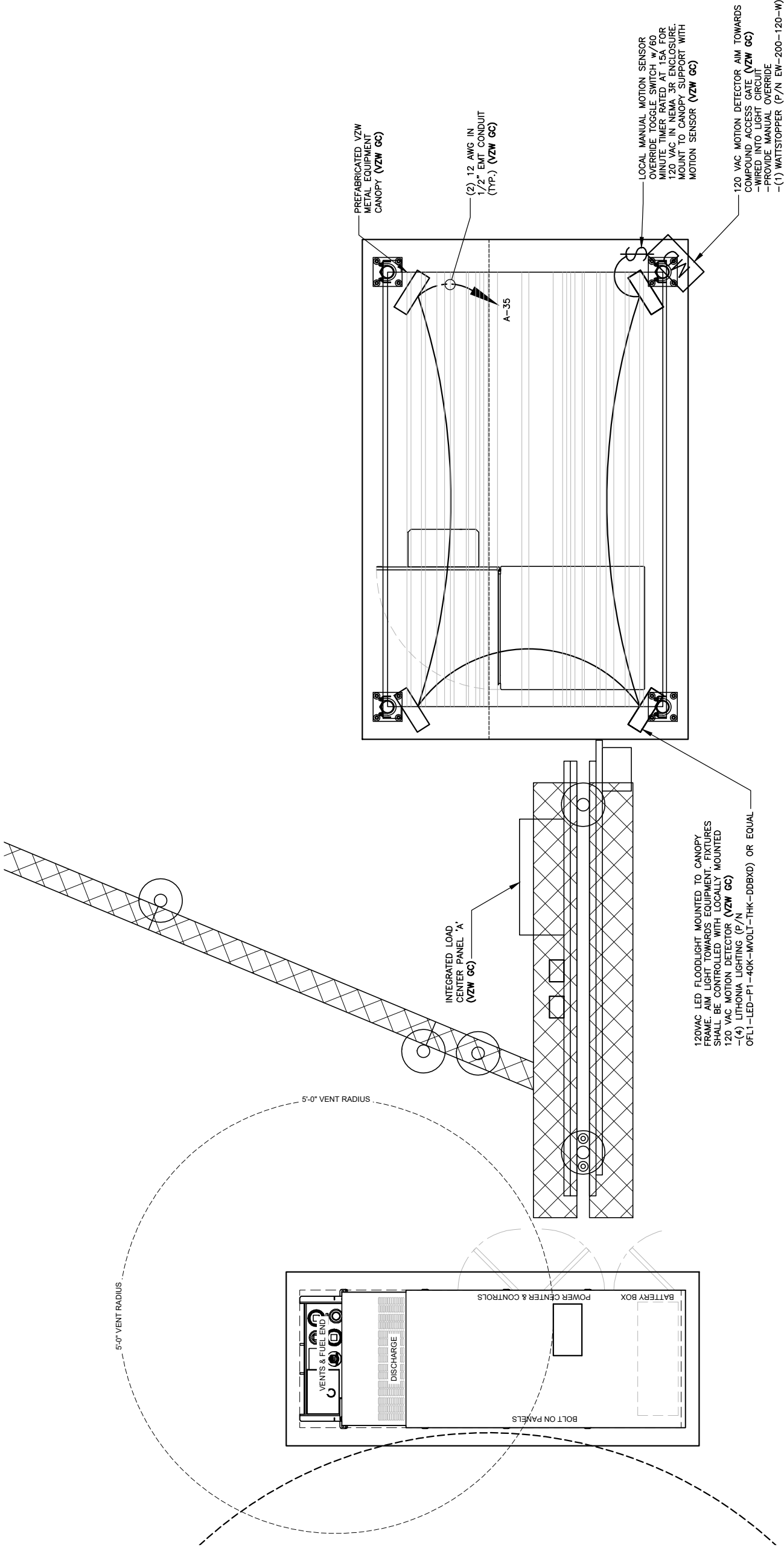


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COUNTY:	CASEY
LATITUDE:	37° 30' 33.53" N
LONGITUDE:	84° 57' 23.05" W
SITE NUMBER:	US-KY-5186

SHEET TITLE:

DRAWING NO.	REVISION:
E-7	8



EQUIPMENT PAD
LIGHTING PLAN

SCALE: N.T.S.

1
E-7

NORTH

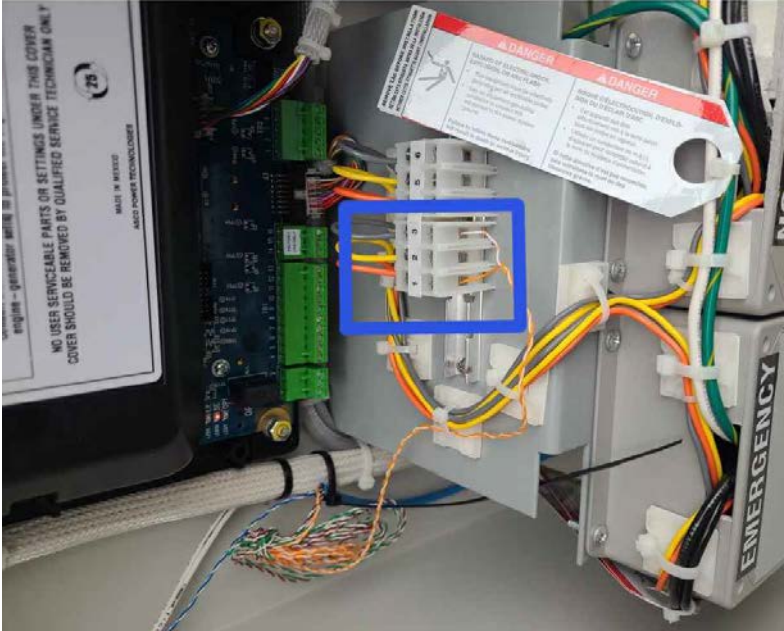
Alarm wiring table

	RMX - 4000 Wiring		Install on right side of panel when facing front of panel		Misc Wiring - left side of panel		
Alarm block Pos	Wire color	Alarm	Wire Color	Wire Color	Wire Color	Alarm	Conn/Pos
1	White/Orange	Door Intrusion	White or Blue	Orange	Orange	Intrusion Alarm	
2	Orange						
3	White/Green	Commercial Power Failure	White or Blue	N/A	N/A	N/A	
4	Green						
5	White/Blue	Surge Suppressor Lightning Arrestor	White or Blue	N/A	N/A	N/A	
6	Blue						
7	White/Brown	Rectifier Failure	White or Blue	Green/White	Green/White	Rectifier Failure	J4 Pos 8
8	Brown						J4 Pos 18
9	White/Orange	Multiple Rectifier Failure	Red or Blue	White/Red	White/Red	Multiple Rectifier Failure	J4 Pos 9
10	Orange						J4 Pos 19
11	White/Green	Battery Discharge	Red or Blue	White	White	Battery Discharge	J4 Pos 4
12	Green						J4 Pos 14
13	White/Blue	Low Voltage	Red or Blue	Black	White/Black	Low Voltage	J4 Pos 5
14	Blue						J4 Pos 15
15	White/Brown	DC Power Failure	Red or Blue	Blue/White	Blue/White	Fuse	J4 Pos 6
16	Brown						J4 Pos 20
17	White/Orange	Generator Running	Black or Blue	N/A	N/A	N/A	
18	Orange						
19	White/Green	Generator Low Fuel	Black or Blue	N/A	N/A	N/A	
20	Green						
21	White/Blue	Generator Failure	Black or Blue	N/A	N/A	N/A	
22	Blue						
23	White/Brown	HVAC Failure	Black or Blue	Black	N/A	HVAC Failure	
24	Brown						
25	White/Orange	High Temp	Yellow or Blue	White/Blue	White/Blue	Overheat Alarm	
26	Orange						
27	White/Green	Low Temp	Yellow or Blue	N/A	N/A	N/A	
28	Green						
29	White/Blue	Tower Light	Yellow or Blue	N/A	N/A	N/A	
30	Blue						
31	White/Brown	Tower Light Side	Yellow or Blue	N/A	N/A	N/A	
32	Brown						
33	White/Orange	RRH Upconverter Failure	Violet or Blue	White/Blue	White/Blue	RRH Upconverter Failure	
34	Orange						
35	White/Green	RRH Power Failure	Violet or Blue	N/A	N/A	N/A	
36	Green						
37	White/Blue	RRH High Humidity	Violet or Blue	N/A	N/A	N/A	
38	Blue						
39	White/Brown	RRH Intrusion	Violet or Blue	N/A	N/A	N/A	
40	Brown						
41	White/Orange	Smoke Fire	Blue	N/A	N/A	N/A	
42	Orange						
43	White/Green	Bus Bar Theft	Blue	N/A	N/A	N/A	
44	Green						
45	White/Blue	N/A	Blue	N/A	N/A	N/A	
46	Blue						
47	White/Brown	N/A	Blue	N/A	N/A	N/A	
48	Brown						
49	White/Orange	Microwave Critical	Orange or Blue	N/A	N/A	N/A	
50	Orange						
51	White/Green	Microwave Major	Orange or Blue	N/A	N/A	N/A	
52	Green						
53	White/Blue	Dehydrator Alarm	Orange or Blue	N/A	N/A	N/A	
54	Blue						
55	White/Brown	Fire Suppression Discharge	Orange or Blue	N/A	N/A	N/A	
56	Brown						
57	White/Orange	Fire Suppression Trouble	Green or Blue	N/A	N/A	N/A	
58	Orange						
59	White/Green	Secondary HVAC Running	Green or Blue	N/A	N/A	N/A	
60	Green						
61	White/Blue	Explosive gas	Green or Blue	N/A	N/A	N/A	
62	Blue						
63	White/Brown	High Humidity	Green or Blue	N/A	N/A	N/A	
64	Brown						
65-84	N/A	N/A	N/A	N/A	N/A	N/A	

ALARM WIRING TABLE

SCALE: N.T.S.

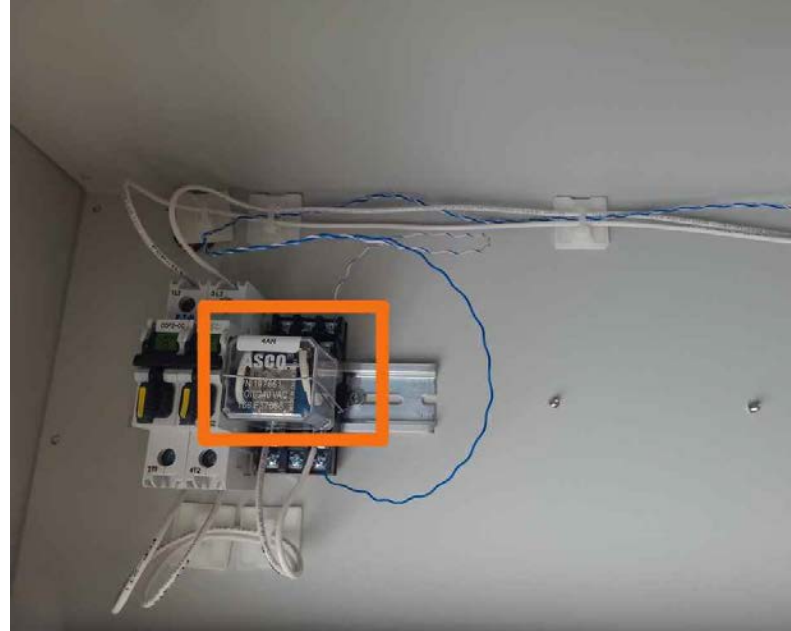
1
E-8



INTEGRATED LOAD CENTER "SURGE" DETAIL

SCALE: N.T.S.

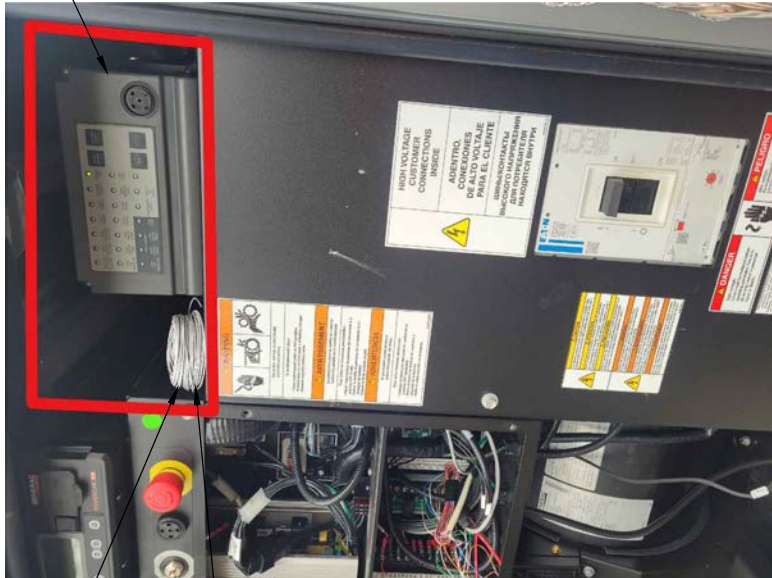
2
E-8



INTEGRATED LOAD CENTER "COMMERCIAL POWER" DETAIL

SCALE: N.T.S.

3
E-8



CONTRACTOR SHALL COIL ALARMING CONDUCTORS AND PLACE ADJACENT TO ANNUNCIATOR PANEL

CONTRACTOR SHALL INDIVIDUALLY LABEL ALL ALARMING CONDUCTORS COORDINATED TO APPROPRIATE CONTACT POSITION

GENERATOR ALARM PANEL DETAIL

SCALE: N.T.S.

4
E-8

PREPARED FOR:



PREPARED BY:



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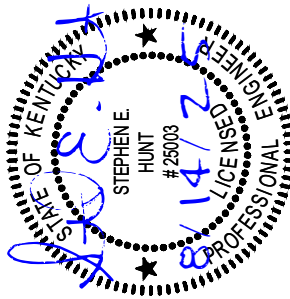
CHECKED BY:

DS

REVISIONS

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GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

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LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

E-8

REVISION:

8

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)









prov

visu

ALARM WIRING CONNECTIONS

2

E-9

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

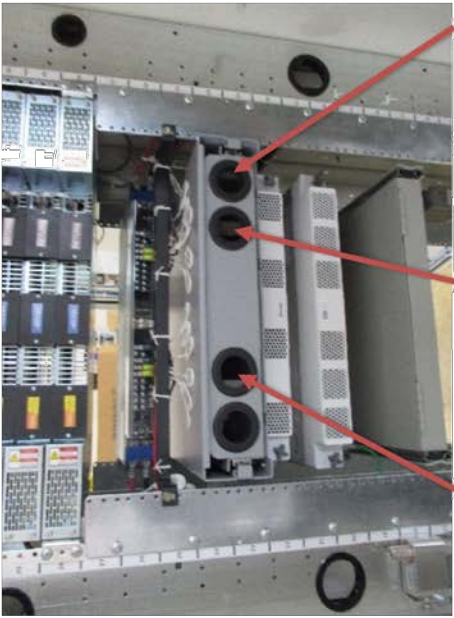
Note: Only install/label Module #4 if fibers are provided.

Note: Only install Aqua fibers if instructed by a supervisor. Otherwise ship loose

Label Template

Updated template

4449 ALPHA	4449 BETA	8843 GAMMA	8843 ALPHA	8843 BETA	8843 GAMMA
6449 ALPHA LINK 1	6449 ALPHA LINK 2	6449 BETA LINK 1	6449 BETA LINK 2	6449 GAMMA LINK 1	6449 GAMMA LINK 2
4408 ALPHA	4408 BETA	4408 GAMMA			



Gamma fibers

Beta fibers

Alpha fibers

Aqua Fibers if installed- label each end the same
Fiber 1
Fiber 2
Fiber 3

FIBER ROUTING DETAIL

1

E-9

SCALE: N.T.S.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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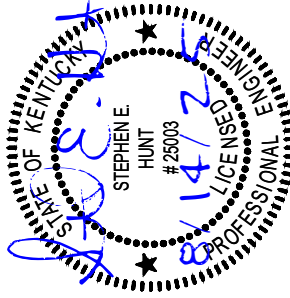
CHECKED BY:

DS

REVISIONS

NO.	DATE	BY	DESCRIPTION
8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
1			

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

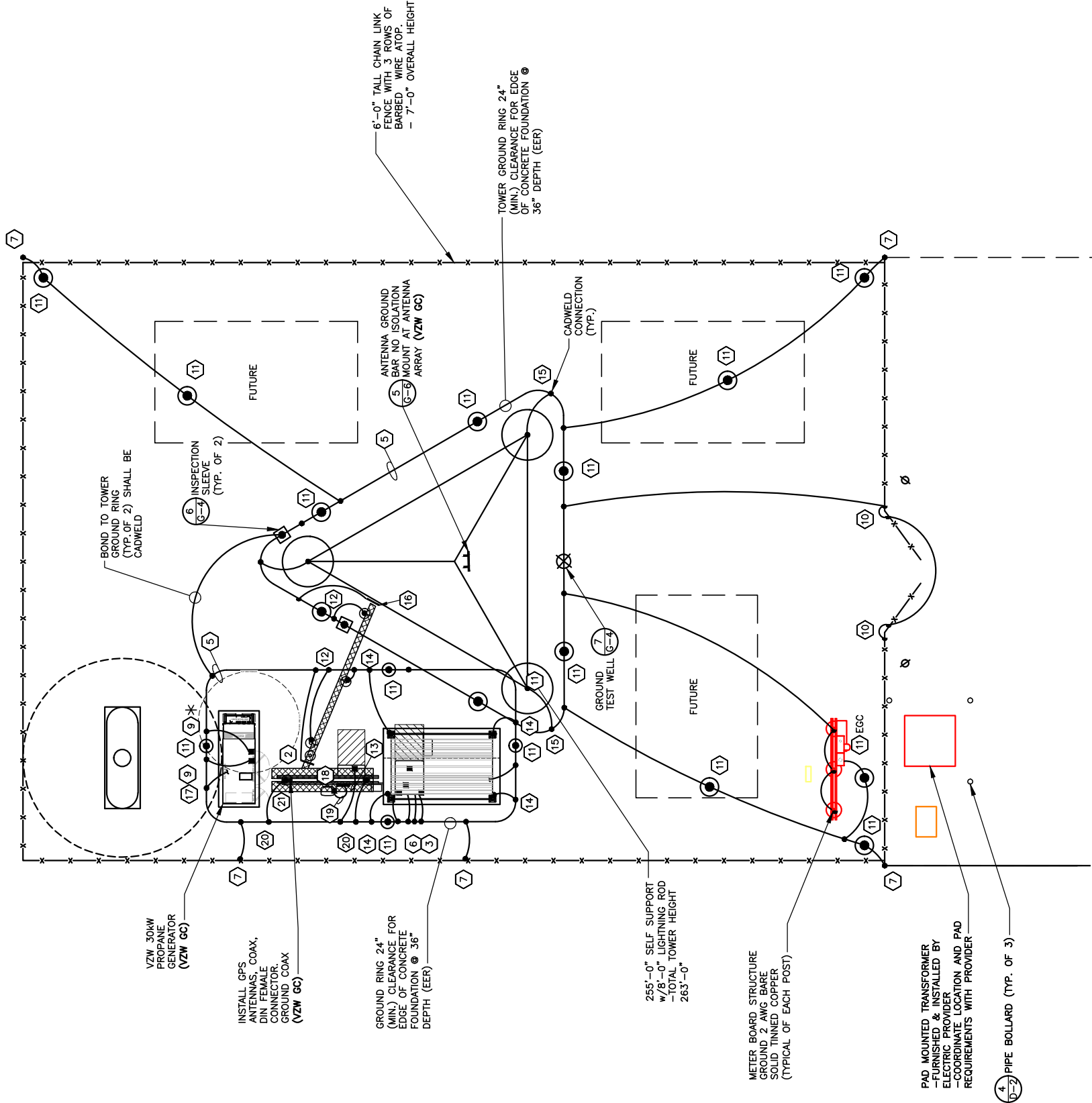
G-1

REVISION:

8

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.



- 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.



GROUNDING SITE PLAN

SCALE: N.T.S.

TOWER OWNER GROUNDING KEYED NOTES

- 1BBG: 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.
- 2CEPSG: FURN. & INST. 1 – 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSG POST TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 3CG: 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.
- 4CSG: FURN. & INST. 1 – 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR ICE BRIDGE CHANNEL TO (EER). COIL UP 15" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
- 5EER: 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.
- 6FEG: 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.
- 7FG: 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.
- 8FTWGL: FURN. & INST. FUTURE TOWER WAVEGUIDE GROUND BAR LEADS. CONTRACTOR SHALL COIL UP TEN (10') OF 2 AWG SOLID TINNED COPPER GROUND (TYP.)
- 9GEG: 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
- 10GG: 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.
- 11GRE: 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.
- 12IBSG: FURN. & INST. 1 – 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). COIL UP 6" ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-1 FOR ICE BRIDGE POST LOCATIONS.
- 13PEG: 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.
- 14PCSG: 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.
- 15TBG: 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.
- 16BY VZW E.C. TWG: 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.
- 17UG: BY VZW E.C.
- 18OGA: BY VZW E.C.
- 19OGL: BY VZW E.C.
- 20OHG: FURN. & INST. 2 – 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). COIL UP 6" ABOVE GRADE (TYP. OF 3 POSTS). CONNECTION (EER) SHALL BE CADWELD.
- 21GPSG: BY VZW E.C.

TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE **TOWER OWNER** E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE **TOWER OWNER** E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE **TOWER OWNER** E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
4. UPON COMPLETION OF THE EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUND RING, THE **TOWER OWNER** E.C. SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE **TOWER OWNER** E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE **TOWER OWNER** E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE **TOWER OWNER** E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE **TOWER OWNER** E.C. SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE **TOWER OWNER** E.C. SHALL NOTIFY VERIZON WIRELESS CONSTRUCTION MANAGER AND TOWER OWNER CONSTRUCTION MANAGER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
5. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
6. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
7. ALL EQUIPMENT PAD AND EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.
8. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
9. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
10. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT. PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
ECC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEG	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GES	GENERATOR ENCLOSURE GROUND
GG	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GPSG	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

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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MJB

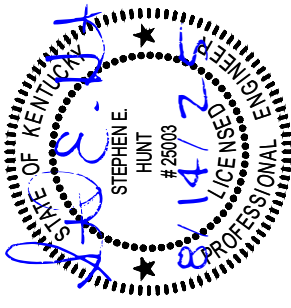
CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

DRAWING NO.

G-2

REVISION:

8

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

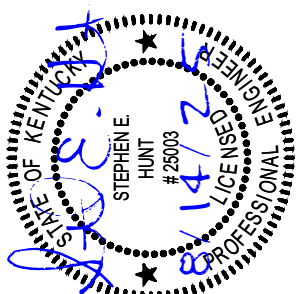
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DRAWN BY: MJB

CHECKED BY: DS

REVISIONS	
8	08/14/25 WAM ADDED COUNTY TOWER MAP
7	08/11/25 JAE CONSTRUCTION ISSUE
6	07/25/25 JAE CONSTRUCTION ISSUE
5	07/10/25 MDR ANNT. REVISED PER RFDs
4	10/07/24 JAE CONSTRUCTION ISSUE
3	10/04/24 DWS ADDED PROPANE GEN
2	09/04/24 DWS RF REVISED
NO.	DATE BY DESCRIPTION

ENGINEER'S STAMP:



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SITE NAME: HWY 243

ADDRESS: 3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

LATITUDE: 37° 30' 33.53" N

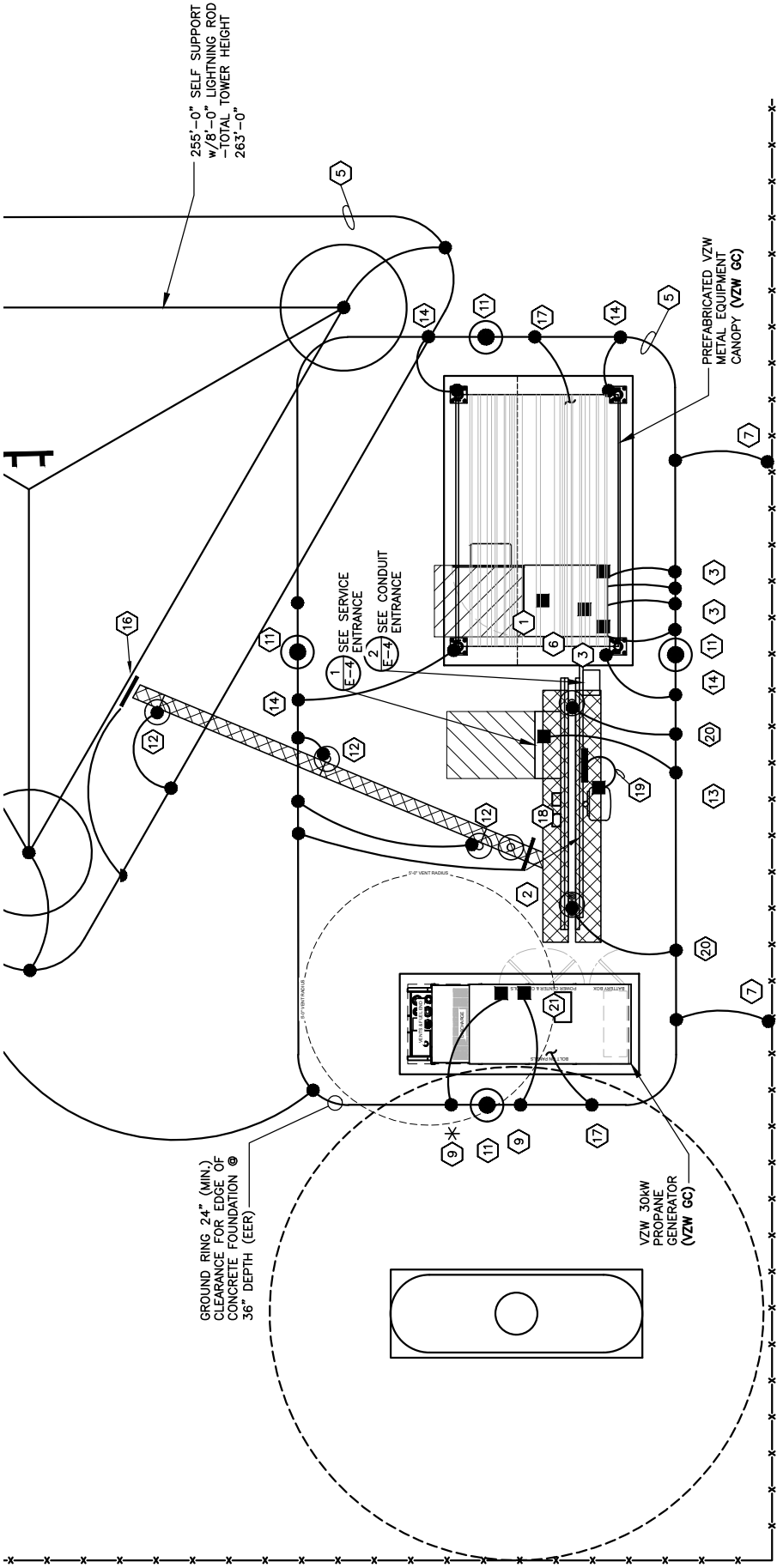
LONGITUDE: 84° 57' 23.05" W

SITE NUMBER: US-KY-5186

SHEET TITLE:

DRAWING NO. G-3

REVISION: 8



VERIZON WIRELESS GROUNDING PLAN

SCALE: N.T.S.

VERIZON WIRELESS GROUNDING KEYED NOTES

- 1

BBG:

VZW E.C. SHALL CONNECT THE 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE COILED UP BY THE TOWER OWNER E.C. FOR THE BATTERY BAY GROUND (BBG). CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
- 2

CEPSG:

VZW E.C. SHALL FURNISH & INSTALL THE THEFT DETERRENT GROUND POST ASSEMBLY PART #TDSGAPC14. FOR THE COAX ENTRY PROTECTION SYSTEM (AS MFG'D. BY ERICO GROUNDING AND SUPPLIED BY VZW E.C.) TO THE POST, CONNECT THE 2 AWG BARE SOLID TINNED COPPER COILED UP BY TOWER OWNER E.C. TO THE POST. THE CONNECTION TO POST SHALL BE CADWELD. 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 ANTIOXIDENT 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.
- 7

FG:

BY TOWER OWNER E.C.
- 8

FTWGL:

BY TOWER OWNER E.C.
- 9

GEC:

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

IBSG:

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 #TDSGABC14 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

GPSG:

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 CADWELD.

VERIZON WIRELESS GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE VZW E.C. AND GENERAL CONTRACTOR E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE VZW E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. THE GENERAL CONTRACTOR E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE TOWER (EER), FUTURE TOWER WAVEGUIDE GROUND LEADS (FTWGL), GATE GROUND (GG), FENCE (FG), TOWER BASE GROUND (TBG) AND TOWER WAVEGUIDE GROUND (TWG).
4. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
5. ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITER ("OXY--GREASE") OR APPROVED EQUAL.
6. UPON COMPLETION OF THE TOWER GROUNDING RING, THE GENERAL CONTRACTOR E.C. SHALL MEGGER TEST THE COMPOUND GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE GENERAL CONTRACTOR E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO 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, 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.
7. UPON COMPLETION OF THE RADIO EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUNDING RING, THE VZW E.C. SHALL MEGGER TEST THE EQUIPMENT PAD GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE VZW E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE VZW E.C. SHALL SUBMIT PRICING TO VERIZON WIRELESS FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM VERIZON WIRELESS, THE VZW E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE VZW E.C. SHALL BOND THE RADIO EQUIPMENT PAD GROUND RING TO THE TOWER GROUND RING. THE VZW E.C. SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES. POURING CONCRETE FOR FOUNDATIONS. TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
8. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
9. GROUND ASSEMBLIES SHALL BE THEFT DETERRENT DESIGN AS MANUFACTURED BY ERICO INC. AND FURNISHED BY VERIZON WIRELESS. PROVIDE TWO (2) LUG HOLES PER VERIZON WIRELESS STANDARDS. UNLESS NOTED OTHERWISE.
10. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
11. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT. PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
12. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR 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
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
ECC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEC	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEN	GENERATOR ENCLOSURE GROUND
GES	GENERATOR ENCLOSURE GROUND
GG	GATE GROUND
GPSG	GPS ANTENNA MOUNT GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGL	OVP GROUND ASSEMBLY
OHG	OVP H-FRAME SUPPORT GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UNDERGROUND (PIER FOUNDATION)
●	CABLE TO GND. ROD CADWELD CONNECTION
⊗	CABLE TO GND. ROD CADWELD CONNECTION
⊠	TEST WELL
⊞	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

DRAWING NOTICE:

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

DRAWN BY:

MJB

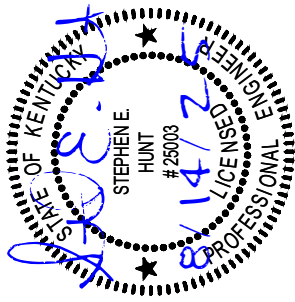
CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

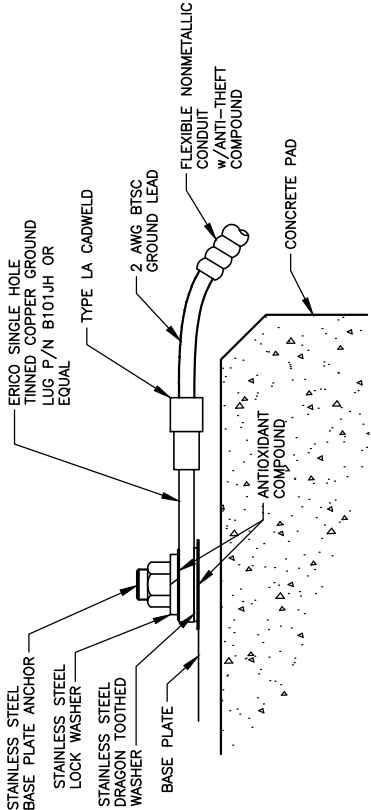
SHEET TITLE:

DRAWING NO.

G-5

REVISION:

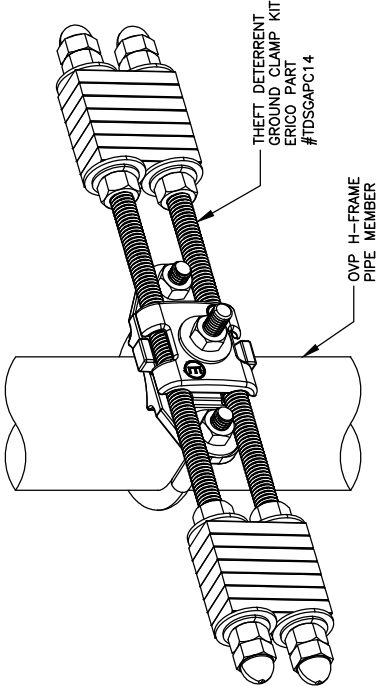
8



1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. INSTALL ANCHOR LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
4. 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.
5. No-Ox-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
6. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
7. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

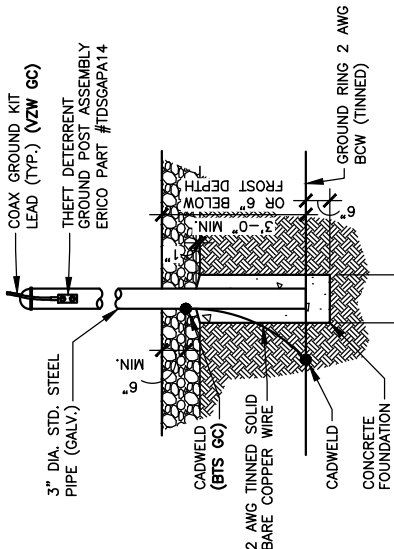
GROUND LUG TO BASEPLATE INSTALLATION DETAIL

SCALE: N.T.S.



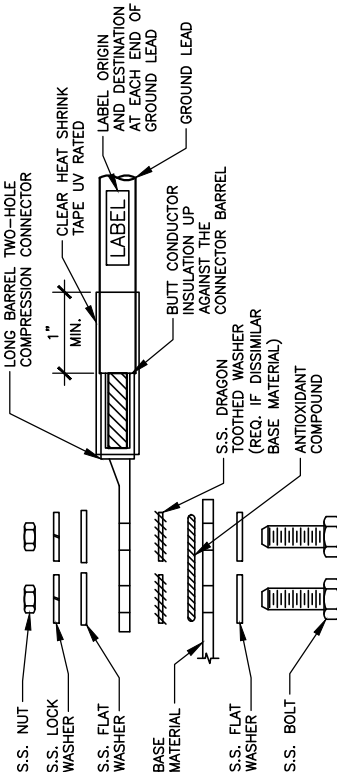
OVP GROUND ASSEMBLY (OGA)

SCALE: N.T.S.



THEFT DETERRENT POST MOUNT GROUND DETAIL (CEPSG)

SCALE: N.T.S.



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.
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GROUND LUG INSTALLATION DETAIL

SCALE: N.T.S.

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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DRAWN BY:

MJB

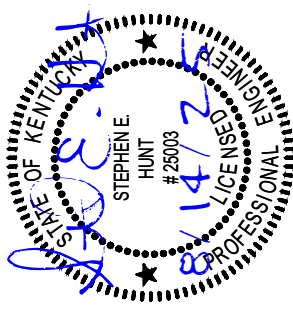
CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
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COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

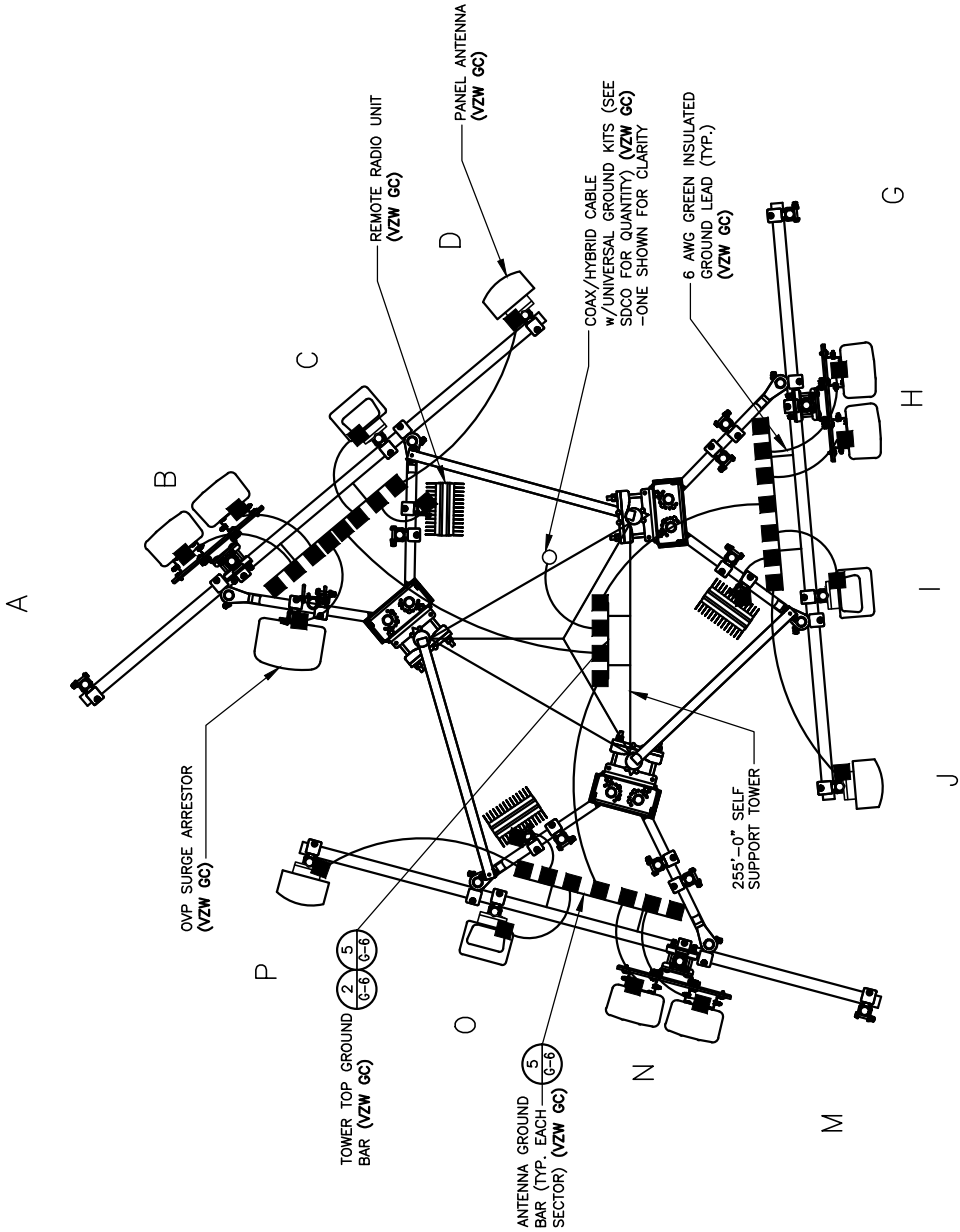
SHEET TITLE:

DRAWING NO.

G-6

REVISION:

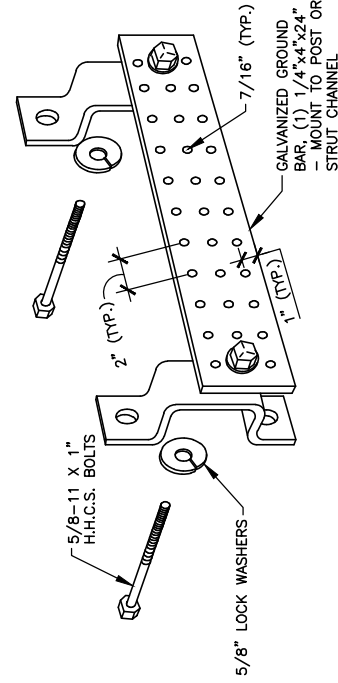
8



ANTENNA LEVEL GROUNDING PLAN

SCALE: N.T.S.

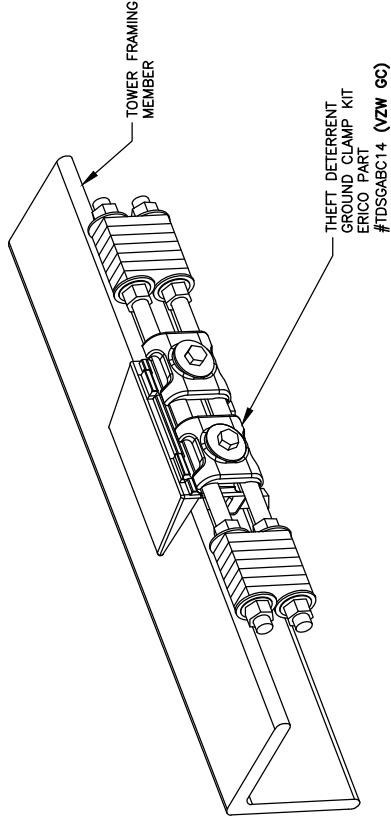
3
G-6



ANTENNA & TOWER TOP GROUND BAR

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

5
G-6

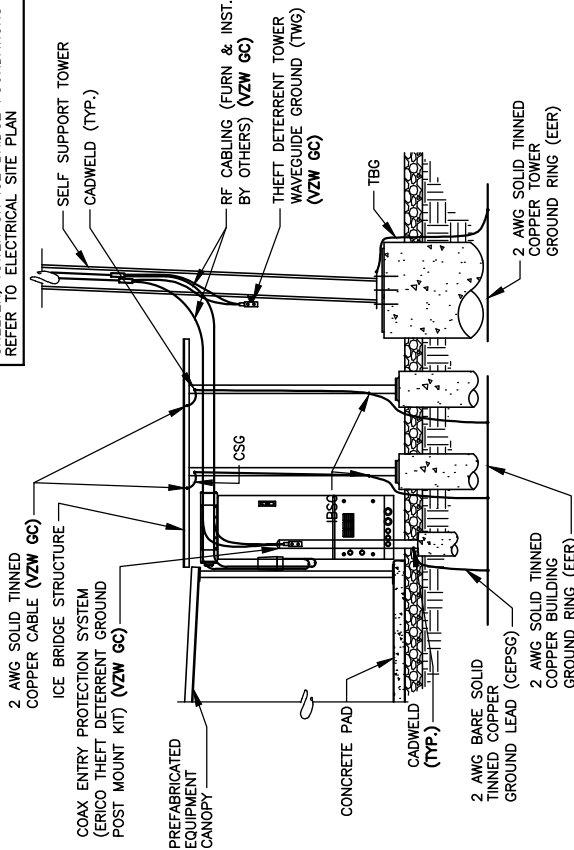


TOWER BOTTOM GROUND ASSEMBLY

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

4
G-6

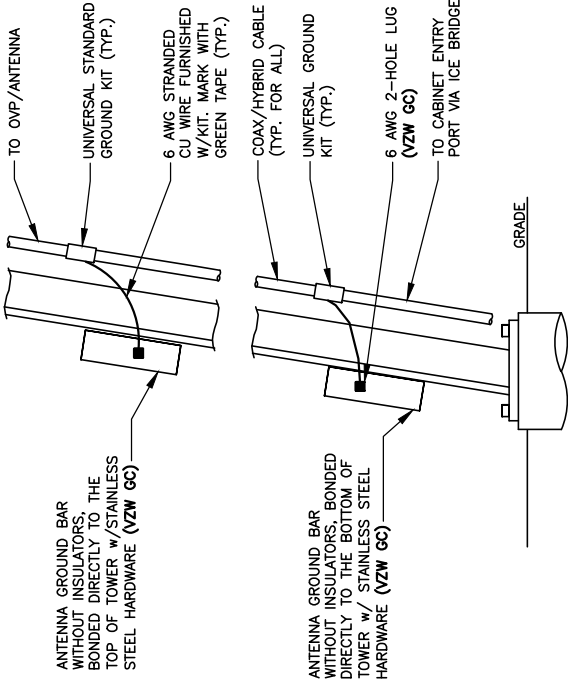
NOTE:
GROUNDING RING DOES NOT PENETRATE
SHELTER, TOWER OR ICE BRIDGE FOUNDATIONS
REFER TO ELECTRICAL SITE PLAN



INTERIOR/EXTERIOR GROUNDING DETAIL

SCALE: N.T.S.

1
G-6



NOTE:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON
THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION
ORIENTATION. PROVIDE AS REQUIRED (VZW GC)
2. INSTALL UNIVERSAL GROUND KITS AT ALL GROUND BAR
LOCATIONS. (VZW GC)

ANTENNA CABLE GROUNDING INSTALLATION DETAIL

SCALE: N.T.S.

2
G-6



Structural Design Report

255' S3TL Series HD1 Self-Supporting Tower

Site: Hwy 243, KY

Site Number: US-KY-5186

Prepared for: VERTICAL BRIDGE REIT, LLC

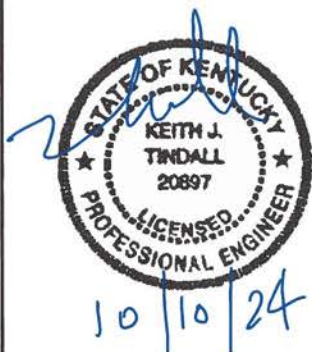
by: Sabre Industries™

Job Number: 539269

Revision A

October 10, 2024

Tower Profile.....	1-2
Foundation Design Summary.....	3
Maximum Leg Loads.....	4
Maximum Diagonal Loads.....	5
Maximum Foundation Loads.....	6
Calculations.....	7-29



Digitally Signed By Keith Tindall
DN:
C=US,SERIALNUMBER=MAS
20240205295307,ST=Texas,L=
Alvarado,O=SABRE
INDUSTRIES, INC.,CN=Keith
Tindall Date: 2024.10.10
11:19:58

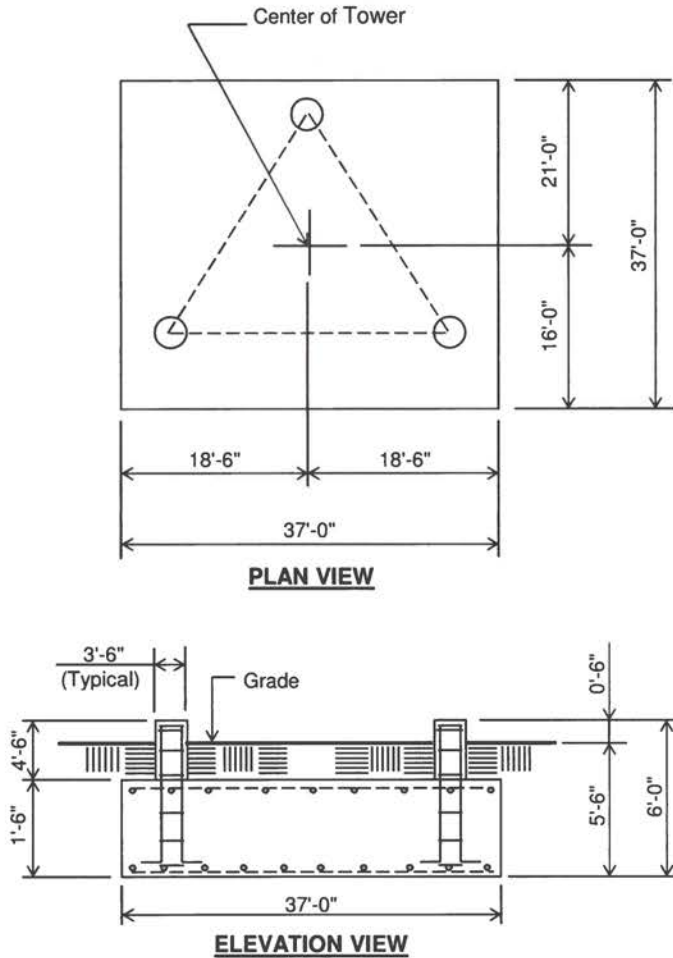
Material List

Display	Value
A	5.563 OD X .500
B	4.500 OD X .337
C	L 5 X 3 1/2 X 5/16
D	L 4 X 4 X 5/16
E	L 5 X 3 1/2 X 1/4
F	L 3 1/2 X 3 1/2 X 1/4
G	NONE

Display	Value
H	L 4 X 4 X 1/4
I	L 2 1/2 X 2 1/2 X 3/16
J	L 3 X 3 X 1/4
K	L 3 X 3 X 3/16
L	L 2 1/2 X 2 1/2 X 1/4
M	1 @ 13.333'
N	1 @ 6.667'

 Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814 Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.	Job:	539269A
	Customer:	VERTICAL BRIDGE REIT, LLC
	Site Name:	Hwy 243, KY US-KY-5186
	Description:	255' S3TL
	Date:	10/10/2024

Customer: VERTICAL BRIDGE REIT, LLC
Site: Hwy 243, KY US-KY-5186
255 ft. Model S3TL Series HD1 Self Supporting Tower



(80.9 cu. yds.)
(1 REQD.; NOT TO SCALE)

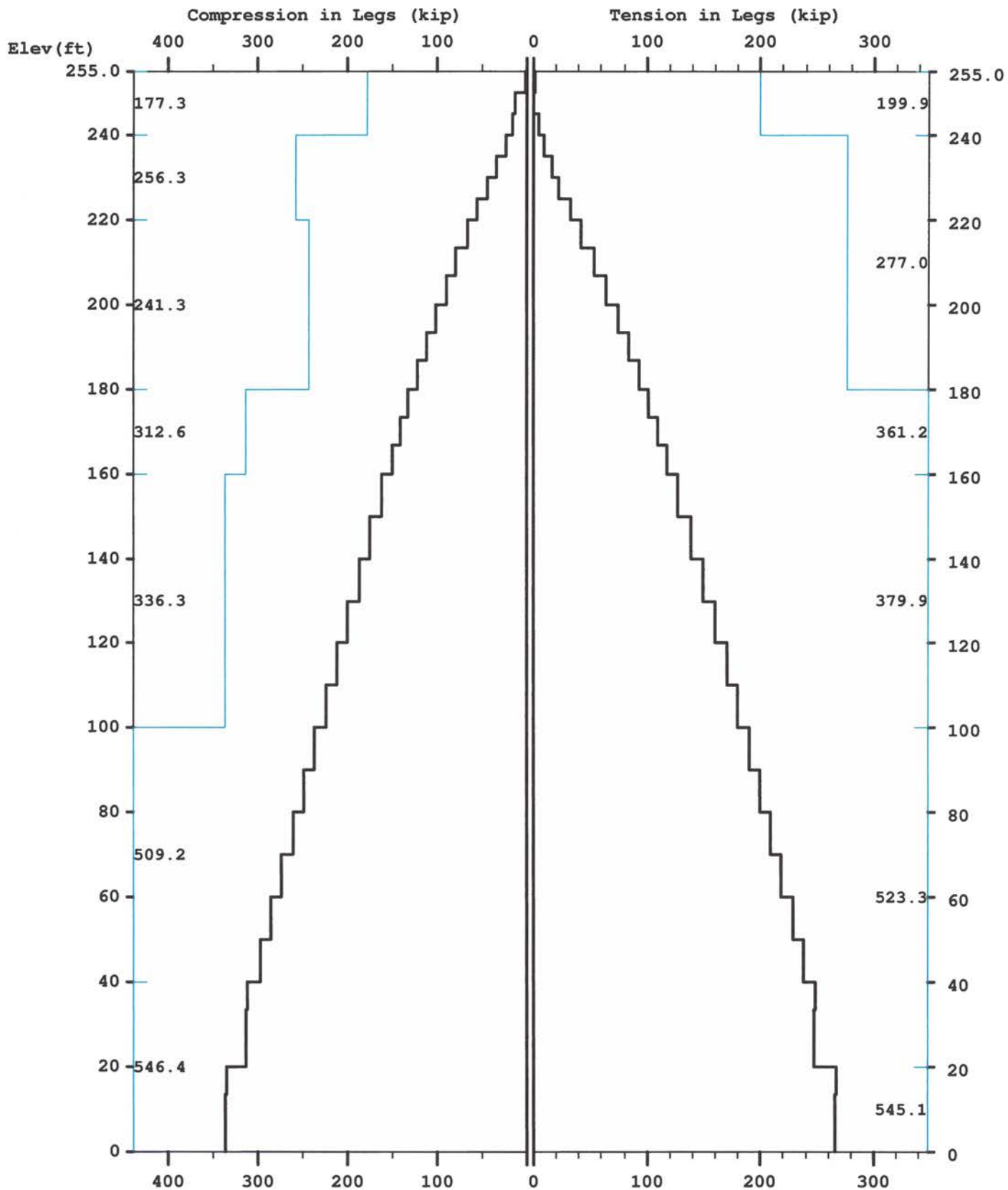
CAUTION: Center of tower is
not in center of slab.

Notes:

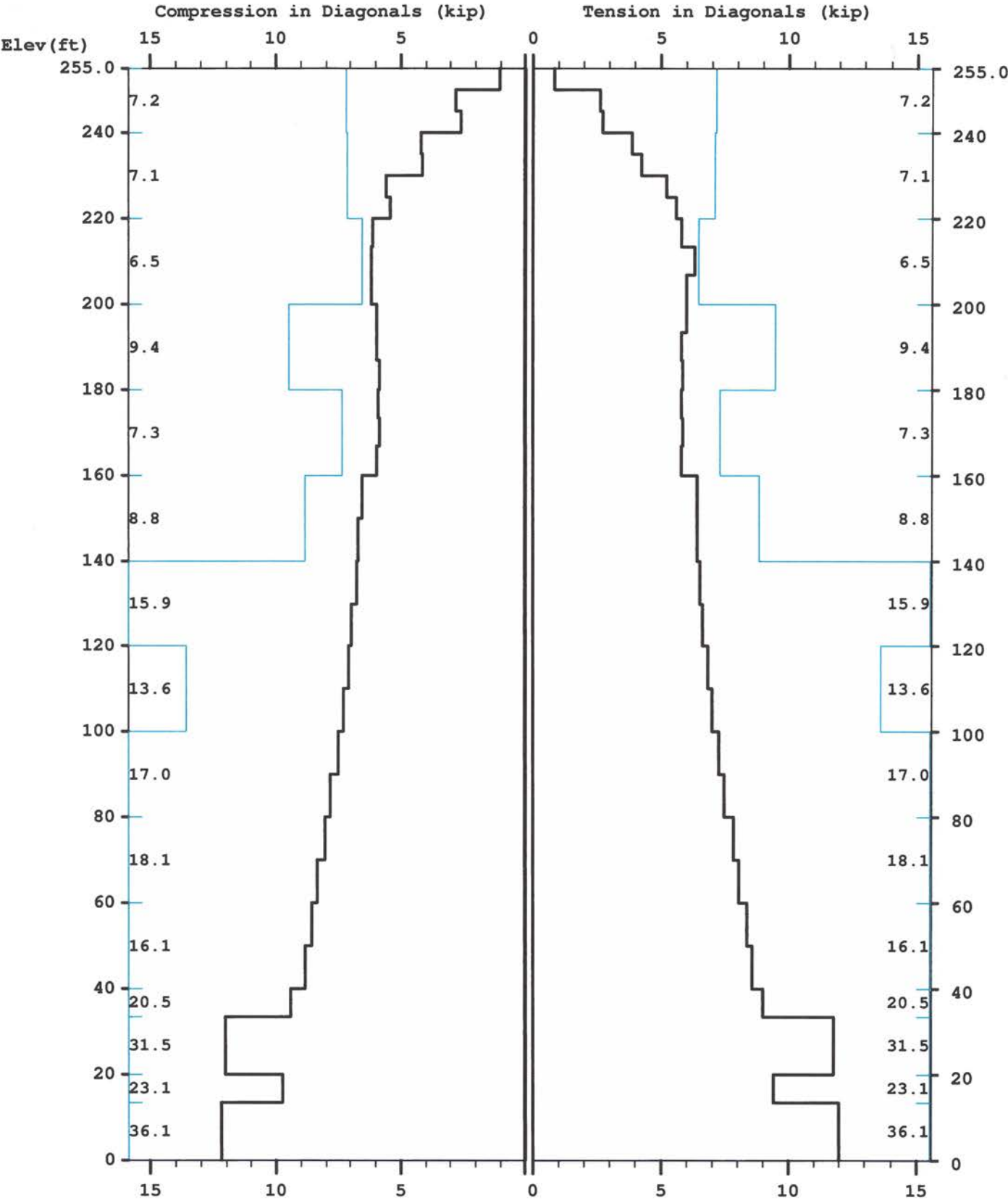
- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Delta Oaks Group project no. GEO24-20675-08, dated: 2/14/24.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 4' of soil cover is required over the entire area of the foundation slab.
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule per Mat and per Pier	
Pier	(20) #7 vertical rebar w/ hooks at bottom w/ #4 rebar ties, two (2) within top 5" of pier then 4" C/C
Mat	(66) #8 horizontal rebar evenly spaced each way top and bottom. (264 total)
Anchor Bolts per Leg	
(6) 1.25" dia. x 63" F1554-105 on a 12.75" B.C. w/ 8" max. projection above concrete.	

Maximum

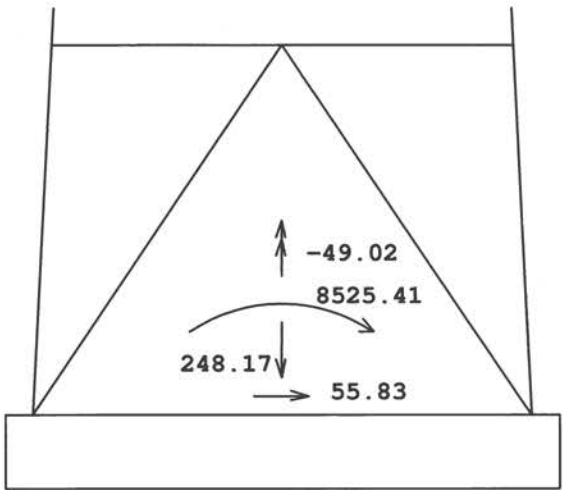


Maximum

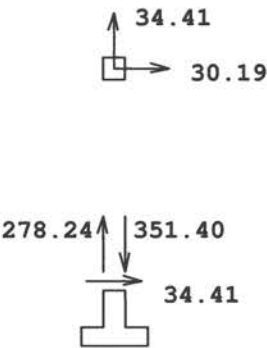


Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



=====

Latticed Tower Analysis (Unguyed) (c)2024 Guymast Inc. 416-736-7453

Processed under license at:

Sabre Towers and Poles on: 10 oct 2024 at: 10:26:06

=====

MAST GEOMETRY (ft)

=====

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	250.00	255.00	6.00	5.50	5.00
X	3	240.00	250.00	7.00	6.00	5.00
X	3	220.00	240.00	9.00	7.00	5.00
X	3	200.00	220.00	11.00	9.00	6.67
X	3	180.00	200.00	13.00	11.00	6.67
X	3	160.00	180.00	15.00	13.00	6.67
X	3	140.00	160.00	17.00	15.00	10.00
X	3	120.00	140.00	19.00	17.00	10.00
X	3	100.00	120.00	21.00	19.00	10.00
X	3	80.00	100.00	23.00	21.00	10.00
X	3	60.00	80.00	25.00	23.00	10.00
X	3	40.00	60.00	27.00	25.00	10.00
V	3	33.33	40.00	27.67	27.00	6.67
A	3	20.00	33.33	29.00	27.67	13.33
V	3	13.33	20.00	29.67	29.00	6.67
A	3	0.00	13.33	31.00	29.67	13.33

MEMBER PROPERTIES

=====

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	240.00	255.00	4.407	1.477	29000.	0.0000117
LE	180.00	240.00	6.111	1.477	29000.	0.0000117
LE	160.00	180.00	7.952	1.477	29000.	0.0000117
LE	100.00	160.00	8.399	1.477	29000.	0.0000117
LE	0.00	100.00	12.763	1.477	29000.	0.0000117
DI	220.00	255.00	0.484	0.626	29000.	0.0000117
DI	200.00	220.00	0.715	0.626	29000.	0.0000117
DI	160.00	200.00	0.902	0.626	29000.	0.0000117
DI	140.00	160.00	1.090	0.626	29000.	0.0000117
DI	100.00	140.00	1.688	0.626	29000.	0.0000117
DI	33.33	100.00	1.938	0.626	29000.	0.0000117
DI	20.00	33.33	2.062	0.626	29000.	0.0000117
DI	13.33	20.00	2.402	0.626	29000.	0.0000117
DI	0.00	13.33	2.559	0.626	29000.	0.0000117
HO	250.00	255.00	0.902	0.778	29000.	0.0000117
HO	20.00	33.33	1.938	0.778	29000.	0.0000117
HO	0.00	13.33	1.688	0.778	29000.	0.0000117
BR	20.00	33.33	1.438	0.000	29000.	0.0000117
BR	0.00	13.33	1.438	0.000	29000.	0.0000117

FACTORED MEMBER RESISTANCES

=====

BOTTOM ELEV ft	TOP ELEV ft	LEGS		DIAGONALS		HORIZONTALS		INT BRACING	
		COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip

250.0	255.0	177.29	199.92	7.16	7.16	13.03	13.03	0.00	0.00
240.0	250.0	177.29	199.92	7.16	7.16	0.00	0.00	0.00	0.00
220.0	240.0	256.32	277.05	7.13	7.13	0.00	0.00	0.00	0.00
200.0	220.0	241.28	277.05	6.51	6.51	0.00	0.00	0.00	0.00
180.0	200.0	241.28	277.05	9.45	9.45	0.00	0.00	0.00	0.00
160.0	180.0	312.59	361.16	7.32	7.32	0.00	0.00	0.00	0.00
140.0	160.0	336.31	379.88	8.84	8.84	0.00	0.00	0.00	0.00
120.0	140.0	336.31	379.88	15.88	15.88	0.00	0.00	0.00	0.00
100.0	120.0	336.31	379.88	13.59	13.59	0.00	0.00	0.00	0.00
80.0	100.0	509.22	523.32	17.02	17.02	0.00	0.00	0.00	0.00
60.0	80.0	509.22	523.32	18.13	18.13	0.00	0.00	0.00	0.00
40.0	60.0	509.22	523.32	16.06	16.06	0.00	0.00	0.00	0.00
33.3	40.0	546.43	523.32	20.48	20.48	0.00	0.00	0.00	0.00
20.0	33.3	546.43	523.32	31.46	31.46	19.77	19.77	9.39	9.39
13.3	20.0	546.43	545.12	23.11	23.11	0.00	0.00	0.00	0.00
0.0	13.3	546.43	545.12	36.11	36.11	12.85	12.85	8.35	8.35

=====

* Only 5 condition(s) shown in full

* Some wind loads may have been derived from full-scale wind tunnel testing

=====

LOADING CONDITION A =====

105 mph wind with no ice. Wind Azimuth: 0° (1.2 D + 1.0 Wo)

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZI	FORCES.....		MOMENTS.....	
		RADIUS ft	AZI		HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	0.00	0.0	0.0	5.98	14.40	0.00	0.00
C	239.0	0.00	0.0	0.0	4.22	9.60	0.00	0.00
C	229.0	0.00	0.0	0.0	4.16	9.60	0.00	0.00
D	255.0	0.00	180.0	0.0	0.06	0.09	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.09	0.00	0.00
D	250.0	0.00	317.3	0.0	0.10	0.10	0.08	-0.09
D	240.0	0.00	315.1	0.0	0.11	0.10	0.07	-0.09
D	240.0	0.00	340.7	0.0	0.12	0.14	0.09	-0.05
D	230.0	0.00	343.5	0.0	0.13	0.15	0.09	-0.04
D	230.0	0.00	9.7	0.0	0.13	0.16	0.11	-0.02
D	220.0	0.00	13.7	0.0	0.14	0.16	0.11	-0.02
D	220.0	0.00	18.0	0.0	0.13	0.17	0.12	-0.01
D	213.3	0.00	18.0	0.0	0.13	0.17	0.12	-0.01
D	213.3	0.00	22.3	0.0	0.13	0.17	0.13	0.00
D	200.0	0.00	21.0	0.0	0.14	0.17	0.13	-0.01
D	200.0	0.00	26.2	0.0	0.14	0.19	0.15	0.01
D	180.0	0.00	23.9	0.0	0.15	0.19	0.14	0.00
D	180.0	0.00	29.0	0.0	0.14	0.21	0.17	0.02
D	160.0	0.00	27.2	0.0	0.15	0.22	0.16	0.01
D	160.0	0.00	31.1	0.0	0.14	0.22	0.19	0.03
D	140.0	0.00	30.0	0.0	0.15	0.22	0.18	0.02
D	140.0	0.00	33.1	0.0	0.15	0.25	0.20	0.04
D	120.0	0.00	32.1	0.0	0.15	0.26	0.19	0.03
D	120.0	0.00	34.7	0.0	0.15	0.26	0.22	0.05
D	100.0	0.00	33.9	0.0	0.15	0.26	0.21	0.04
D	100.0	0.00	36.1	0.0	0.17	0.34	0.24	0.06
D	80.0	0.00	35.4	0.0	0.18	0.34	0.23	0.05
D	80.0	0.00	37.2	0.0	0.17	0.34	0.26	0.06
D	60.0	0.00	36.7	0.0	0.17	0.35	0.25	0.06
D	60.0	0.00	38.3	0.0	0.17	0.35	0.27	0.07
D	40.0	0.00	37.8	0.0	0.17	0.36	0.27	0.07

D	40.0	0.00	39.2	0.0	0.14	0.33	0.29	0.06
D	33.3	0.00	39.2	0.0	0.14	0.33	0.29	0.06
D	33.3	0.00	38.8	0.0	0.16	0.42	0.29	0.07
D	20.0	0.00	38.8	0.0	0.16	0.42	0.29	0.07
D	20.0	0.00	40.0	0.0	0.12	0.36	0.31	0.06
D	13.3	0.00	40.0	0.0	0.12	0.36	0.31	0.06
D	13.3	0.00	39.6	0.0	0.14	0.43	0.30	0.06
D	0.0	0.00	39.6	0.0	0.14	0.43	0.30	0.06

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT		ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	215.0	90.0	7.0	120.0	0.09	-0.28	0.24	-0.62
STD+R	215.0	270.0	7.0	240.0	0.09	0.28	0.24	0.62

LOADING CONDITION M

105 mph wind with no ice. Wind Azimuth: 00 (0.9 D + 1.0 Wo)

MAST LOADING

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LOAD	ELEV	APPLY..LOAD..AT	LOAD	FORCES.....		MOMENTS.....	
TYPE	ft	RADIUS	AZI	AZI	HORIZ	DOWN	TORSNAL
		ft			kip	kip	ft-kip
C	250.0	0.00	0.0	0.0	5.98	10.80	0.00
C	239.0	0.00	0.0	0.0	4.22	7.20	0.00
C	229.0	0.00	0.0	0.0	4.16	7.20	0.00
D	255.0	0.00	180.0	0.0	0.06	0.07	0.00
D	250.0	0.00	180.0	0.0	0.06	0.07	0.00
D	250.0	0.00	317.3	0.0	0.10	0.08	0.06
D	240.0	0.00	315.1	0.0	0.11	0.08	0.05
D	240.0	0.00	340.7	0.0	0.12	0.11	0.07
D	230.0	0.00	343.5	0.0	0.13	0.11	0.07
D	230.0	0.00	9.9	0.0	0.14	0.12	0.08
D	206.7	0.00	22.6	0.0	0.13	0.13	0.10
D	206.7	0.00	21.0	0.0	0.14	0.13	0.10
D	200.0	0.00	21.0	0.0	0.14	0.13	0.10
D	200.0	0.00	26.2	0.0	0.14	0.14	0.11
D	180.0	0.00	23.9	0.0	0.15	0.14	0.11
D	180.0	0.00	29.0	0.0	0.14	0.16	0.13
D	160.0	0.00	27.2	0.0	0.15	0.16	0.12
D	160.0	0.00	31.1	0.0	0.14	0.16	0.14
D	140.0	0.00	30.0	0.0	0.15	0.17	0.13
D	140.0	0.00	33.1	0.0	0.15	0.19	0.15
D	120.0	0.00	32.1	0.0	0.15	0.19	0.15
D	120.0	0.00	34.7	0.0	0.15	0.19	0.17
D	100.0	0.00	33.9	0.0	0.15	0.20	0.16
D	100.0	0.00	36.1	0.0	0.17	0.25	0.18
D	80.0	0.00	35.4	0.0	0.18	0.25	0.17
D	80.0	0.00	37.2	0.0	0.17	0.26	0.19
D	60.0	0.00	36.7	0.0	0.17	0.26	0.19
D	60.0	0.00	38.3	0.0	0.17	0.26	0.21
D	40.0	0.00	37.8	0.0	0.17	0.27	0.20
D	40.0	0.00	39.2	0.0	0.14	0.25	0.22
D	33.3	0.00	39.2	0.0	0.14	0.25	0.22
D	33.3	0.00	38.8	0.0	0.16	0.31	0.21
D	20.0	0.00	38.8	0.0	0.16	0.31	0.21
D	20.0	0.00	40.0	0.0	0.12	0.27	0.23
D	13.3	0.00	40.0	0.0	0.12	0.27	0.23

D	13.3	0.00	39.6	0.0	0.14	0.33	0.23	0.06
D	0.0	0.00	39.6	0.0	0.14	0.33	0.23	0.06

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT		ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	215.0	90.0	7.0	120.0	0.09	-0.28	0.18	-0.62
STD+R	215.0	270.0	7.0	240.0	0.09	0.28	0.18	0.62

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LOADING CONDITION Y =====

30 mph wind with 1.5 ice. Wind Azimuth: 00 (1.2 D + 1.0 Di + 1.0 Wi)

MAST LOADING

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LOAD	ELEV	APPLY..	LOAD..	AT	LOAD	FORCES.....		MOMENTS.....	
TYPE	ft	RADIUS	AZI	AZI		HORIZ	DOWN	VERTICAL	TORSNAL
		ft				kip	kip	ft-kip	ft-kip
C	250.0	0.00	0.0	0.0	0.85	36.44	0.00	0.00	0.00
C	239.0	0.00	0.0	0.0	0.60	24.23	0.00	0.00	0.00
C	229.0	0.00	0.0	0.0	0.59	24.17	0.00	0.00	0.00
D	255.0	0.00	180.0	0.0	0.01	0.25	0.00	0.00	0.00
D	250.0	0.00	180.0	0.0	0.01	0.25	0.00	0.00	0.00
D	250.0	0.00	317.3	0.0	0.01	0.31	0.29	-0.01	0.00
D	245.0	0.00	317.3	0.0	0.01	0.31	0.29	-0.01	0.00
D	245.0	0.00	315.1	0.0	0.01	0.32	0.28	-0.01	0.00
D	240.0	0.00	315.1	0.0	0.01	0.32	0.28	-0.01	0.00
D	240.0	0.00	346.9	0.0	0.01	0.41	0.32	0.00	0.00
D	235.0	0.00	346.9	0.0	0.01	0.41	0.32	0.00	0.00
D	235.0	0.00	351.5	0.0	0.01	0.43	0.33	0.00	0.00
D	230.0	0.00	351.5	0.0	0.01	0.43	0.33	0.00	0.00
D	230.0	0.00	15.3	0.0	0.02	0.47	0.40	0.00	0.00
D	225.0	0.00	15.3	0.0	0.02	0.47	0.40	0.00	0.00
D	225.0	0.00	18.7	0.0	0.02	0.49	0.41	0.00	0.00
D	220.0	0.00	18.7	0.0	0.02	0.49	0.41	0.00	0.00
D	220.0	0.00	22.4	0.0	0.02	0.48	0.45	0.00	0.00
D	213.3	0.00	22.4	0.0	0.02	0.48	0.45	0.00	0.00
D	213.3	0.00	25.6	0.0	0.02	0.49	0.48	0.00	0.00
D	206.7	0.00	25.6	0.0	0.02	0.49	0.48	0.00	0.00
D	206.7	0.00	24.2	0.0	0.02	0.50	0.46	0.00	0.00
D	200.0	0.00	24.2	0.0	0.02	0.50	0.46	0.00	0.00
D	200.0	0.00	29.4	0.0	0.02	0.53	0.54	0.00	0.00
D	193.3	0.00	29.4	0.0	0.02	0.53	0.54	0.00	0.00
D	193.3	0.00	28.3	0.0	0.02	0.53	0.52	0.00	0.00
D	186.7	0.00	28.3	0.0	0.02	0.53	0.52	0.00	0.00
D	186.7	0.00	27.2	0.0	0.02	0.54	0.50	0.00	0.00
D	180.0	0.00	27.2	0.0	0.02	0.54	0.50	0.00	0.00
D	180.0	0.00	32.2	0.0	0.02	0.57	0.60	0.00	0.00
D	173.3	0.00	32.2	0.0	0.02	0.57	0.60	0.00	0.00
D	173.3	0.00	31.3	0.0	0.02	0.58	0.58	0.00	0.00
D	166.7	0.00	31.3	0.0	0.02	0.58	0.58	0.00	0.00
D	166.7	0.00	30.4	0.0	0.02	0.58	0.56	0.00	0.00
D	160.0	0.00	30.4	0.0	0.02	0.58	0.56	0.00	0.00
D	160.0	0.00	34.3	0.0	0.02	0.58	0.65	0.00	0.00
D	150.0	0.00	34.3	0.0	0.02	0.58	0.65	0.00	0.00
D	150.0	0.00	33.2	0.0	0.02	0.59	0.62	0.00	0.00
D	140.0	0.00	33.2	0.0	0.02	0.59	0.62	0.00	0.00
D	140.0	0.00	36.2	0.0	0.02	0.64	0.70	0.00	0.00
D	130.0	0.00	36.2	0.0	0.02	0.64	0.70	0.00	0.00

D	130.0	0.00	35.3	0.0	0.02	0.65	0.67	0.00
D	120.0	0.00	35.3	0.0	0.02	0.65	0.67	0.00
D	120.0	0.00	37.8	0.0	0.02	0.65	0.75	0.00
D	110.0	0.00	37.8	0.0	0.02	0.65	0.75	0.00
D	110.0	0.00	37.1	0.0	0.02	0.66	0.73	0.00
D	100.0	0.00	37.1	0.0	0.02	0.66	0.73	0.00
D	100.0	0.00	39.1	0.0	0.02	0.75	0.81	0.01
D	80.0	0.00	38.5	0.0	0.02	0.76	0.78	0.01
D	80.0	0.00	40.3	0.0	0.02	0.77	0.85	0.01
D	60.0	0.00	39.7	0.0	0.02	0.78	0.83	0.01
D	60.0	0.00	41.2	0.0	0.02	0.78	0.89	0.01
D	40.0	0.00	40.7	0.0	0.02	0.78	0.88	0.01
D	40.0	0.00	42.0	0.0	0.02	0.70	0.92	0.01
D	33.3	0.00	42.0	0.0	0.02	0.70	0.92	0.01
D	33.3	0.00	41.6	0.0	0.02	0.94	0.91	0.01
D	20.0	0.00	41.6	0.0	0.02	0.94	0.91	0.01
D	20.0	0.00	41.1	0.0	0.01	0.61	0.42	0.01
D	13.3	0.00	41.1	0.0	0.01	0.61	0.42	0.01
D	13.3	0.00	42.0	0.0	0.02	0.86	0.73	0.01
D	0.0	0.00	42.0	0.0	0.02	0.86	0.73	0.01

ANTENNA LOADING

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.....ANTENNA.....				ATTACHMENT		ANTENNA FORCES.....			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION	
	ft		ft		kip	kip	kip	ft-kip	
STD+R	215.0	90.0	7.0	120.0	0.01	-0.03	0.82	-0.06	
STD+R	215.0	270.0	7.0	240.0	0.01	0.03	0.82	0.06	

LOADING CONDITION k

Seismic - Azimuth: 0° (1.2 D + 1.0 Ev + 1.0 Eh)

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	FORCES.....		MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	0.00	0.0	0.0	1.17	14.83	0.00	0.00
C	247.5	0.00	0.0	0.0	0.13	1.63	0.00	0.00
C	245.0	0.00	0.0	0.0	0.02	0.28	0.00	0.00
C	239.5	0.00	0.0	0.0	0.00	0.03	0.00	0.00
C	239.0	0.00	0.0	0.0	0.74	9.88	0.00	0.00
C	234.0	0.00	0.0	0.0	0.03	0.36	0.00	0.00
C	234.0	0.00	0.0	0.0	0.01	0.13	0.00	0.00
C	230.0	0.00	0.0	0.0	0.17	2.38	0.00	0.00
C	229.0	0.00	0.0	0.0	0.71	9.88	0.00	0.00
C	224.5	0.00	0.0	0.0	0.02	0.32	0.00	0.00
C	224.5	0.00	0.0	0.0	0.02	0.25	0.00	0.00
C	217.5	0.00	0.0	0.0	0.01	0.18	0.00	0.00
C	217.5	0.00	0.0	0.0	0.01	0.14	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.38	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.38	0.00	0.00
C	215.0	0.00	0.0	0.0	0.00	0.06	0.00	0.00
C	215.0	0.00	0.0	0.0	0.00	0.06	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.44	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.44	0.00	0.00
C	210.0	0.00	0.0	0.0	0.17	2.57	0.00	0.00
C	207.5	0.00	0.0	0.0	0.03	0.54	0.00	0.00
C	207.5	0.00	0.0	0.0	0.03	0.46	0.00	0.00
C	190.0	0.00	0.0	0.0	0.04	0.61	0.00	0.00
C	190.0	0.00	0.0	0.0	0.04	0.72	0.00	0.00

C	190.0	0.00	0.0	0.0	0.16	2.85	0.00	0.00
C	170.0	0.00	0.0	0.0	0.04	0.72	0.00	0.00
C	170.0	0.00	0.0	0.0	0.03	0.61	0.00	0.00
C	170.0	0.00	0.0	0.0	0.18	3.68	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.72	0.00	0.00
C	150.0	0.00	0.0	0.0	0.16	3.72	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.61	0.00	0.00
C	130.0	0.00	0.0	0.0	0.03	0.72	0.00	0.00
C	130.0	0.00	0.0	0.0	0.02	0.61	0.00	0.00
C	130.0	0.00	0.0	0.0	0.16	4.44	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.72	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.61	0.00	0.00
C	110.0	0.00	0.0	0.0	0.14	4.61	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.61	0.00	0.00
C	90.0	0.00	0.0	0.0	0.02	0.72	0.00	0.00
C	90.0	0.00	0.0	0.0	0.14	6.19	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.61	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.72	0.00	0.00
C	70.0	0.00	0.0	0.0	0.11	6.49	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.61	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.72	0.00	0.00
C	50.0	0.00	0.0	0.0	0.08	6.68	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.72	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.61	0.00	0.00
C	30.0	0.00	0.0	0.0	0.05	7.64	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.72	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	8.12	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.61	0.00	0.00
D	255.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT		ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	215.0	90.0	7.0	120.0	0.00	0.00	0.00	0.00
STD+R	215.0	270.0	7.0	240.0	0.00	0.00	0.00	0.00

LOADING CONDITION n

Seismic - Azimuth: 0° (0.9 D - 1.0 Ev + 1.0 Eh)

MAST LOADING

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LOAD	ELEV	APPLY..LOAD..AT	LOAD	FORCES.....		MOMENTS.....	
TYPE	ft	RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL
		ft			kip	kip	ft-kip
C	250.0	0.00	0.0	0.0	1.17	10.37	0.00
C	247.5	0.00	0.0	0.0	0.13	1.14	0.00
C	245.0	0.00	0.0	0.0	0.02	0.20	0.00
C	239.5	0.00	0.0	0.0	0.00	0.02	0.00
C	239.0	0.00	0.0	0.0	0.74	6.92	0.00
C	234.0	0.00	0.0	0.0	0.03	0.25	0.00
C	234.0	0.00	0.0	0.0	0.01	0.09	0.00
C	230.0	0.00	0.0	0.0	0.17	1.66	0.00
C	229.0	0.00	0.0	0.0	0.71	6.92	0.00
C	224.5	0.00	0.0	0.0	0.02	0.23	0.00
C	224.5	0.00	0.0	0.0	0.02	0.18	0.00
C	217.5	0.00	0.0	0.0	0.01	0.13	0.00
C	217.5	0.00	0.0	0.0	0.01	0.10	0.00

C	215.0	0.00	0.0	0.0	0.03	0.27	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.27	0.00	0.00
C	215.0	0.00	0.0	0.0	0.00	0.04	0.00	0.00
C	215.0	0.00	0.0	0.0	0.00	0.04	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.31	0.00	0.00
C	215.0	0.00	0.0	0.0	0.03	0.31	0.00	0.00
C	210.0	0.00	0.0	0.0	0.17	1.80	0.00	0.00
C	207.5	0.00	0.0	0.0	0.03	0.38	0.00	0.00
C	207.5	0.00	0.0	0.0	0.03	0.32	0.00	0.00
C	190.0	0.00	0.0	0.0	0.04	0.43	0.00	0.00
C	190.0	0.00	0.0	0.0	0.04	0.50	0.00	0.00
C	190.0	0.00	0.0	0.0	0.16	2.00	0.00	0.00
C	170.0	0.00	0.0	0.0	0.04	0.50	0.00	0.00
C	170.0	0.00	0.0	0.0	0.03	0.43	0.00	0.00
C	170.0	0.00	0.0	0.0	0.18	2.57	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.50	0.00	0.00
C	150.0	0.00	0.0	0.0	0.16	2.60	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.43	0.00	0.00
C	130.0	0.00	0.0	0.0	0.03	0.50	0.00	0.00
C	130.0	0.00	0.0	0.0	0.02	0.43	0.00	0.00
C	130.0	0.00	0.0	0.0	0.16	3.11	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.50	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.43	0.00	0.00
C	110.0	0.00	0.0	0.0	0.14	3.22	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.43	0.00	0.00
C	90.0	0.00	0.0	0.0	0.02	0.50	0.00	0.00
C	90.0	0.00	0.0	0.0	0.14	4.33	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.43	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.50	0.00	0.00
C	70.0	0.00	0.0	0.0	0.11	4.54	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.43	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.50	0.00	0.00
C	50.0	0.00	0.0	0.0	0.08	4.67	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.50	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.43	0.00	0.00
C	30.0	0.00	0.0	0.0	0.05	5.35	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.50	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	5.68	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.43	0.00	0.00
D	255.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

ANTENNA LOADING
=====

.....ANTENNA.....	ATTACHMENT		ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	215.0	90.0	7.0	120.0	0.00	0.00	0.00	0.00
STD+R	215.0	270.0	7.0	240.0	0.00	0.00	0.00	0.00

=====

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV	AZI	TYPE	BEAM DEFLECTIONS (deg).....			
ft	deg	*	ROLL	YAW	PITCH	TOTAL
215.0	90.0	STD+R	-0.652 D	0.108 Q	-0.696 G	0.696 G
215.0	270.0	STD+R	0.652 D	0.108 Q	0.696 G	0.696 G

MAXIMUM TENSION IN MAST MEMBERS (kip)

=====

ELEV	LEGS	DIAG	HORIZ	BRACE
ft				

255.0	-----		0.78 A	0.00 A
	0.59 G	0.84 S		
250.0	-----		0.11 S	0.00 A
	0.00 A	2.64 X		
245.0	-----		0.15 I	0.00 A
	4.93 M	2.70 F		
240.0	-----		0.13 W	0.00 A
	8.94 M	3.90 M		
235.0	-----		0.17 I	0.00 A
	16.69 M	4.23 F		
230.0	-----		0.10 K	0.00 A
	22.74 M	5.21 M		
225.0	-----		0.13 I	0.00 A
	32.36 M	5.58 F		
220.0	-----		0.03 D	0.00 A
	42.24 M	5.79 P		
213.3	-----		0.11 E	0.00 A
	54.05 M	6.33 J		
206.7	-----		0.02 A	0.00 A
	64.62 M	6.00 P		
200.0	-----		0.08 E	0.00 A
	74.78 M	6.01 J		
193.3	-----		0.02 A	0.00 A
	84.16 M	5.83 P		
186.7	-----		0.07 E	0.00 A
	93.27 M	5.88 D		
180.0	-----		0.02 A	0.00 A
	101.83 M	5.79 V		
173.3	-----		0.09 E	0.00 A
	110.16 M	5.85 D		
166.7	-----		0.02 A	0.00 A
	118.14 M	5.82 V		
160.0	-----		0.08 E	0.00 A
	127.75 M	6.45 D		
150.0	-----		0.07 A	0.00 A
	138.93 M	6.44 V		
140.0	-----		0.07 E	0.00 A
	149.71 M	6.56 K		
130.0	-----		0.06 A	0.00 A
	160.14 M	6.65 W		
120.0	-----		0.04 E	0.00 A
	170.34 M	6.88 K		
110.0	-----		0.06 A	0.00 A
	180.32 M	6.99 W		
100.0	-----		0.04 E	0.00 A
	190.10 M	7.28 K		
90.0	-----		0.03 A	0.00 A
	199.70 M	7.49 K		
80.0	-----		0.04 E	0.00 A
	209.29 M	7.83 K		
70.0	-----		0.03 A	0.00 A
	218.82 M	8.04 K		
60.0	-----		0.16 k	0.00 A
	228.33 M	8.38 K		
50.0	-----		0.04 S	0.00 A
	237.75 M	8.59 K		
40.0	-----		0.19 E	0.00 A
	248.93 M	8.99 W		
33.3	-----		0.60 Q	0.00 E
	247.96 M	11.79 K		
20.0	-----		0.08 A	0.00 E
	267.18 M	9.39 K		
13.3	-----		0.52 Q	0.00 T
	266.15 M	11.98 K		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

=====

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----		-0.63 S	0.00 A
	-0.47 M	-1.03 A		
250.0	-----		-0.13 A	0.00 A
	-13.04 e	-2.81 F		
245.0	-----		-0.10 O	0.00 A
	-15.14 e	-2.61 X		
240.0	-----		-0.15 E	0.00 A
	-22.85 G	-4.19 G		
235.0	-----		-0.12 O	0.00 A
	-32.65 G	-4.11 X		
230.0	-----		-0.10 A	0.00 A
	-43.35 G	-5.56 G		
225.0	-----		-0.08 O	0.00 A
	-55.16 G	-5.42 X		
220.0	-----		-0.02 Q	0.00 A
	-65.41 G	-6.09 J		
213.3	-----		-0.06 S	0.00 A
	-78.57 G	-6.19 P		
206.7	-----		-0.01 X	0.00 A
	-89.69 G	-6.17 J		
200.0	-----		-0.05 S	0.00 A
	-101.10 G	-5.92 P		
193.3	-----		-0.01 S	0.00 A
	-111.24 G	-5.96 J		
186.7	-----		-0.05 S	0.00 A
	-121.54 G	-5.82 V		
180.0	-----		-0.01 S	0.00 A
	-131.03 G	-5.89 D		
173.3	-----		-0.06 S	0.00 A
	-140.62 G	-5.82 J		
166.7	-----		-0.01 S	0.00 A
	-149.68 G	-5.95 K		
160.0	-----		-0.06 S	0.00 A
	-160.81 G	-6.55 K		
150.0	-----		-0.05 S	0.00 A
	-173.72 G	-6.70 K		
140.0	-----		-0.05 S	0.00 A
	-186.48 G	-6.76 K		
130.0	-----		-0.04 S	0.00 A
	-198.90 G	-6.96 K		
120.0	-----		-0.03 S	0.00 A
	-211.24 G	-7.07 K		
110.0	-----		-0.04 S	0.00 A
	-223.30 G	-7.31 K		
100.0	-----		-0.03 S	0.00 A
	-235.49 G	-7.48 K		
90.0	-----		-0.02 S	0.00 A
	-247.69 G	-7.82 K		
80.0	-----		-0.03 S	0.00 A
	-260.01 G	-8.04 K		
70.0	-----		-0.02 S	0.00 A
	-272.26 G	-8.35 K		
60.0	-----		-0.01 c	0.00 A
	-284.62 G	-8.54 K		
50.0	-----		-0.06 A	0.00 A
	-296.88 G	-8.82 K		
40.0	-----		-0.16 S	0.00 A
	-310.65 G	-9.39 K		
33.3	-----		-0.74 K	0.00 M
	-311.95 G	-12.05 K		

20.0	-----		-0.06 S	0.00 M
	-335.17 G	-9.75 K		
13.3	-----		-0.66 K	0.00 M
	-336.55 G	-12.21 K		
0.0	-----		0.00 A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

=====

MAST ELEV ft	-- LEG COMPRESSION --			---- LEG TENSION ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00	-----			-----		
	0.47	177.29	0.00	0.59	199.92	0.00
250.00	-----			-----		
	13.04	177.29	0.07	0.00	199.92	0.00
245.00	-----			-----		
	15.14	177.29	0.09	4.93	199.92	0.02
240.00	-----			-----		
	22.85	256.32	0.09	8.94	277.05	0.03
235.00	-----			-----		
	32.65	256.32	0.13	16.69	277.05	0.06
230.00	-----			-----		
	43.35	256.32	0.17	22.74	277.05	0.08
225.00	-----			-----		
	55.16	256.32	0.22	32.36	277.05	0.12
220.00	-----			-----		
	65.41	241.28	0.27	42.24	277.05	0.15
213.33	-----			-----		
	78.57	241.28	0.33	54.05	277.05	0.20
206.67	-----			-----		
	89.69	241.28	0.37	64.62	277.05	0.23
200.00	-----			-----		
	101.10	241.28	0.42	74.78	277.05	0.27
193.33	-----			-----		
	111.24	241.28	0.46	84.16	277.05	0.30
186.67	-----			-----		
	121.54	241.28	0.50	93.27	277.05	0.34
180.00	-----			-----		
	131.03	312.59	0.42	101.83	361.16	0.28
173.33	-----			-----		
	140.62	312.59	0.45	110.16	361.16	0.31
166.67	-----			-----		
	149.68	312.59	0.48	118.14	361.16	0.33
160.00	-----			-----		
	160.81	336.31	0.48	127.75	379.88	0.34
150.00	-----			-----		
	173.72	336.31	0.52	138.93	379.88	0.37
140.00	-----			-----		
	186.48	336.31	0.55	149.71	379.88	0.39
130.00	-----			-----		
	198.90	336.31	0.59	160.14	379.88	0.42
120.00	-----			-----		
	211.24	336.31	0.63	170.34	379.88	0.45
110.00	-----			-----		
	223.30	336.31	0.66	180.32	379.88	0.47
100.00	-----			-----		
	235.49	509.22	0.46	190.10	523.32	0.36
90.00	-----			-----		
	247.69	509.22	0.49	199.70	523.32	0.38
80.00	-----			-----		
	260.01	509.22	0.51	209.29	523.32	0.40
70.00	-----			-----		
	272.26	509.22	0.53	218.82	523.32	0.42
60.00	-----			-----		
	284.62	509.22	0.56	228.33	523.32	0.44

50.00	296.88	509.22	0.58	237.75	523.32	0.45
40.00	310.65	546.43	0.57	248.93	523.32	0.48
33.33	311.95	546.43	0.57	247.96	523.32	0.47
20.00	335.17	546.43	0.61	267.18	545.12	0.49
13.33	336.55	546.43	0.62	266.15	545.12	0.49
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS

=====

MAST ELEV ft	- DIAG COMPRESSION -			--- DIAG TENSION ---		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00	1.03	7.16	0.14	0.84	7.16	0.12
250.00	2.81	7.16	0.39	2.64	7.16	0.37
245.00	2.61	7.16	0.36	2.70	7.16	0.38
240.00	4.19	7.13	0.59	3.90	7.13	0.55
235.00	4.11	7.13	0.58	4.23	7.13	0.59
230.00	5.56	7.13	0.78	5.21	7.13	0.73
225.00	5.42	7.13	0.76	5.58	7.13	0.78
220.00	6.09	6.51	0.94	5.79	6.51	0.89
213.33	6.19	6.51	0.95	6.33	6.51	0.97
206.67	6.17	6.51	0.95	6.00	6.51	0.92
200.00	5.92	9.45	0.63	6.01	9.45	0.64
193.33	5.96	9.45	0.63	5.83	9.45	0.62
186.67	5.82	9.45	0.62	5.88	9.45	0.62
180.00	5.89	7.32	0.80	5.79	7.32	0.79
173.33	5.82	7.32	0.80	5.85	7.32	0.80
166.67	5.95	7.32	0.81	5.82	7.32	0.80
160.00	6.55	8.84	0.74	6.45	8.84	0.73
150.00	6.70	8.84	0.76	6.44	8.84	0.73
140.00	6.76	15.88	0.43	6.56	15.88	0.41
130.00	6.96	15.88	0.44	6.65	15.88	0.42
120.00	7.07	13.59	0.52	6.88	13.59	0.51
110.00	7.31	13.59	0.54	6.99	13.59	0.51
100.00	7.48	17.02	0.44	7.28	17.02	0.43
90.00	7.82	17.02	0.46	7.49	17.02	0.44
80.00						

	8.04	18.13	0.44	7.83	18.13	0.43
70.00	8.35	18.13	0.46	8.04	18.13	0.44
60.00	8.54	16.06	0.53	8.38	16.06	0.52
50.00	8.82	16.06	0.55	8.59	16.06	0.53
40.00	9.39	20.48	0.46	8.99	20.48	0.44
33.33	12.05	31.46	0.38	11.79	31.46	0.37
20.00	9.75	23.11	0.42	9.39	23.11	0.41
13.33	12.21	36.11	0.34	11.98	36.11	0.33
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

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-----LOAD---COMPONENTS-----				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
34.41 G	30.19 K	351.40 G	-278.24 M	34.41 G

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

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-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 0.0				@ 0.0	
55.8	-49.6	55.8	248.2	8525.4	-7775.1	8525.4	-49.0
G	P	G	e	G	D	G	F

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Latticed Tower Analysis (Unguyed) (c)2024 Guymast Inc. 416-736-7453

Processed under license at:

Sabre Towers and Poles on: 10 oct 2024 at: 10:26:26

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***** Service Load Condition *****

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* Only 1 condition(s) shown in full

* Some wind loads may have been derived from full-scale wind tunnel testing

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LOADING CONDITION A =====

60 mph wind with no ice. Wind Azimuth: 0° (1.0 D + 1.0 Wo)

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	FORCES.....		MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	0.00	0.0	0.0	1.95	12.00	0.00	0.00
C	239.0	0.00	0.0	0.0	1.38	8.00	0.00	0.00
C	229.0	0.00	0.0	0.0	1.36	8.00	0.00	0.00
D	255.0	0.00	180.0	0.0	0.02	0.07	0.00	0.00
D	250.0	0.00	180.0	0.0	0.02	0.07	0.00	0.00
D	250.0	0.00	317.3	0.0	0.03	0.09	0.06	-0.03
D	240.0	0.00	315.1	0.0	0.03	0.09	0.06	-0.03
D	240.0	0.00	340.7	0.0	0.04	0.12	0.08	-0.02
D	230.0	0.00	343.5	0.0	0.04	0.12	0.08	-0.01
D	230.0	0.00	9.9	0.0	0.05	0.13	0.09	-0.01
D	213.3	0.00	18.3	0.0	0.04	0.14	0.10	0.00
D	213.3	0.00	22.3	0.0	0.04	0.14	0.11	0.00
D	200.0	0.00	21.0	0.0	0.05	0.15	0.11	0.00
D	200.0	0.00	26.2	0.0	0.05	0.15	0.13	0.00
D	180.0	0.00	23.9	0.0	0.05	0.16	0.12	0.00
D	180.0	0.00	29.0	0.0	0.05	0.18	0.14	0.01
D	160.0	0.00	27.2	0.0	0.05	0.18	0.13	0.00
D	160.0	0.00	31.1	0.0	0.05	0.18	0.15	0.01
D	140.0	0.00	30.0	0.0	0.05	0.18	0.15	0.01
D	140.0	0.00	33.1	0.0	0.05	0.21	0.17	0.01
D	120.0	0.00	32.1	0.0	0.05	0.21	0.16	0.01
D	120.0	0.00	34.7	0.0	0.05	0.22	0.18	0.02
D	100.0	0.00	33.9	0.0	0.05	0.22	0.18	0.01
D	100.0	0.00	36.1	0.0	0.06	0.28	0.20	0.02
D	80.0	0.00	35.4	0.0	0.06	0.28	0.19	0.02
D	80.0	0.00	37.2	0.0	0.06	0.29	0.21	0.02
D	60.0	0.00	36.7	0.0	0.06	0.29	0.21	0.02
D	60.0	0.00	38.3	0.0	0.06	0.29	0.23	0.02
D	40.0	0.00	37.8	0.0	0.06	0.30	0.22	0.02
D	40.0	0.00	39.2	0.0	0.05	0.28	0.25	0.02
D	33.3	0.00	39.2	0.0	0.05	0.28	0.25	0.02
D	33.3	0.00	38.8	0.0	0.06	0.35	0.24	0.02
D	20.0	0.00	38.8	0.0	0.06	0.35	0.24	0.02
D	20.0	0.00	40.0	0.0	0.04	0.30	0.26	0.02
D	13.3	0.00	40.0	0.0	0.04	0.30	0.26	0.02
D	13.3	0.00	39.6	0.0	0.05	0.36	0.25	0.02
D	0.0	0.00	39.6	0.0	0.05	0.36	0.25	0.02

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT		ANTENNA FORCES.....					
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	215.0	90.0	7.0	120.0	0.03	-0.09	0.20	-0.20
STD+R	215.0	270.0	7.0	240.0	0.03	0.09	0.20	0.20

MAXIMUM MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
255.0	0.603 G	-0.562 D	0.016 G	0.246 G	-0.232 D	-0.039 E
250.0	0.581 G	-0.542 D	0.016 G	0.247 G	-0.232 D	-0.039 E
245.0	0.559 G	-0.521 D	0.015 G	0.246 G	-0.232 D	-0.039 E
240.0	0.537 G	-0.501 D	0.015 G	0.246 G	-0.231 D	-0.039 E
235.0	0.514 G	-0.479 D	0.015 G	0.244 G	-0.229 D	-0.038 E
230.0	0.493 G	-0.459 D	0.015 G	0.242 G	-0.228 D	-0.038 E
225.0	0.470 G	-0.437 D	0.015 G	0.240 G	-0.225 D	-0.037 E
220.0	0.448 G	-0.416 D	0.014 G	0.236 G	-0.222 D	-0.036 E

213.3	0.419 G	-0.389 D	0.014 G	0.230 G	-0.216 D	-0.035 E
206.7	0.392 G	-0.364 D	0.013 G	0.223 G	-0.209 D	-0.033 E
200.0	0.365 G	-0.338 D	0.013 G	0.215 G	-0.202 D	-0.030 E
193.3	0.340 G	-0.315 D	0.012 G	0.206 G	-0.193 D	-0.029 E
186.7	0.315 G	-0.292 D	0.012 G	0.197 G	-0.184 D	-0.027 E
180.0	0.292 G	-0.270 D	0.011 G	0.187 G	-0.175 D	-0.025 E
173.3	0.269 G	-0.249 D	0.011 G	0.179 G	-0.167 D	-0.023 E
166.7	0.248 G	-0.229 D	0.011 G	0.171 G	-0.160 D	-0.021 E
160.0	0.227 G	-0.210 D	0.010 G	0.163 G	-0.152 D	-0.019 E
150.0	0.199 G	-0.183 D	0.010 G	0.151 G	-0.141 D	-0.017 E
140.0	0.172 G	-0.158 D	0.009 G	0.139 G	-0.129 D	-0.015 E
130.0	0.148 G	-0.136 D	0.008 G	0.127 G	-0.118 D	-0.014 E
120.0	0.126 G	-0.116 D	0.008 G	0.114 G	-0.106 D	-0.013 F
110.0	0.106 G	-0.097 D	0.007 G	0.101 G	-0.093 D	-0.011 F
100.0	0.089 G	-0.081 D	0.006 G	0.088 G	-0.081 D	-0.010 F
90.0	0.073 G	-0.067 D	0.006 G	0.079 G	-0.073 D	-0.009 F
80.0	0.059 G	-0.054 D	0.005 G	0.071 G	-0.065 D	-0.008 F
70.0	0.046 G	-0.042 D	0.005 G	0.062 G	-0.057 D	-0.007 F
60.0	0.035 G	-0.032 D	0.004 F	0.054 G	-0.049 D	-0.006 F
50.0	0.024 G	-0.022 D	0.003 G	0.045 G	-0.041 D	-0.005 F
40.0	0.014 G	-0.013 D	0.003 F	0.036 G	-0.033 D	-0.003 F
33.3	0.011 G	-0.010 D	0.002 K	0.030 G	-0.028 D	-0.003 F
20.0	0.004 G	-0.003 D	0.001 H	0.018 G	-0.016 D	-0.002 F
13.3	0.002 G	-0.001 D	0.001 H	0.012 G	-0.011 D	-0.001 F
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV ft	AZI deg	TYPE *	BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
215.0	90.0	STD+R	-0.218 D	0.035 E	-0.232 G	0.232 G
215.0	270.0	STD+R	0.218 D	0.035 E	0.232 G	0.232 G

MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----	-----	0.30 A	0.00 A
	0.23 G	0.22 G		
250.0	-----	-----	0.03 G	0.00 A
	0.00 A	0.82 L		
245.0	-----	-----	0.07 I	0.00 A
	0.00 A	0.92 L		
240.0	-----	-----	0.04 K	0.00 A
	0.00 A	1.21 A		
235.0	-----	-----	0.07 I	0.00 A
	0.33 A	1.43 L		
230.0	-----	-----	0.03 K	0.00 A
	0.83 A	1.63 A		
225.0	-----	-----	0.06 A	0.00 A
	3.33 A	1.89 F		
220.0	-----	-----	0.01 J	0.00 A
	6.54 A	1.84 D		
213.3	-----	-----	0.05 E	0.00 A
	10.08 A	2.15 J		
206.7	-----	-----	0.01 A	0.00 A
	13.48 A	1.92 D		
200.0	-----	-----	0.04 E	0.00 A
	16.53 A	2.04 J		
193.3	-----	-----	0.01 A	0.00 A
	19.49 A	1.89 D		
186.7	-----	-----	0.03 E	0.00 A
	22.21 A	1.98 D		

180.0	-----		0.01 A	0.00 A
	24.85 A	1.89 J		
173.3	-----		0.04 E	0.00 A
	27.31 A	1.96 D		
166.7	-----		0.01 A	0.00 A
	29.71 A	1.91 J		
160.0	-----		0.04 E	0.00 A
	32.55 A	2.16 D		
150.0	-----		0.03 A	0.00 A
	35.90 A	2.14 J		
140.0	-----		0.03 A	0.00 A
	39.05 A	2.20 D		
130.0	-----		0.03 A	0.00 A
	42.11 A	2.22 K		
120.0	-----		0.02 E	0.00 A
	45.06 A	2.32 K		
110.0	-----		0.03 A	0.00 A
	47.98 A	2.35 K		
100.0	-----		0.02 E	0.00 A
	50.72 A	2.47 K		
90.0	-----		0.01 A	0.00 A
	53.38 A	2.53 K		
80.0	-----		0.02 E	0.00 A
	55.99 A	2.66 K		
70.0	-----		0.01 A	0.00 A
	58.62 A	2.73 K		
60.0	-----		0.01 G	0.00 A
	61.21 A	2.85 K		
50.0	-----		0.01 G	0.00 A
	63.78 A	2.92 K		
40.0	-----		0.08 E	0.00 A
	67.10 A	3.05 K		
33.3	-----		0.18 E	0.00 G
	66.02 A	4.01 K		
20.0	-----		0.04 A	0.00 G
	71.89 A	3.19 K		
13.3	-----		0.15 E	0.00 G
	70.75 A	4.08 K		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----		-0.16 G	0.00 A
	-0.12 A	-0.40 A		
250.0	-----		-0.05 A	0.00 A
	-5.02 G	-0.98 L		
245.0	-----		-0.02 C	0.00 A
	-7.38 G	-0.84 L		
240.0	-----		-0.05 E	0.00 A
	-11.51 G	-1.46 G		
235.0	-----		-0.02 C	0.00 A
	-15.31 G	-1.33 L		
230.0	-----		-0.03 A	0.00 A
	-20.15 G	-1.92 G		
225.0	-----		-0.01 C	0.00 A
	-24.64 G	-1.74 L		
220.0	-----		0.00 A	0.00 A
	-28.09 G	-2.09 J		
213.3	-----		0.00 K	0.00 A
	-32.77 G	-1.99 D		

206.7	-----		0.00 A	0.00 A
	-36.56 G	-2.11 J		
200.0	-----		0.00 K	0.00 A
	-40.63 G	-1.93 D		
193.3	-----		0.00 G	0.00 A
	-44.15 G	-2.02 J		
186.7	-----		-0.01 K	0.00 A
	-47.83 G	-1.91 J		
180.0	-----		0.00 G	0.00 A
	-51.17 G	-2.00 D		
173.3	-----		-0.01 K	0.00 A
	-54.64 G	-1.93 J		
166.7	-----		0.00 G	0.00 A
	-57.88 G	-2.00 K		
160.0	-----		-0.01 K	0.00 A
	-61.91 G	-2.18 K		
150.0	-----		-0.01 G	0.00 A
	-66.58 G	-2.27 K		
140.0	-----		-0.01 K	0.00 A
	-71.28 G	-2.28 K		
130.0	-----		-0.01 G	0.00 A
	-75.89 G	-2.36 K		
120.0	-----		-0.01 K	0.00 A
	-80.51 G	-2.39 K		
110.0	-----		-0.01 G	0.00 A
	-85.03 G	-2.49 K		
100.0	-----		0.00 K	0.00 A
	-89.68 G	-2.55 K		
90.0	-----		0.00 G	0.00 A
	-94.39 G	-2.68 K		
80.0	-----		0.00 K	0.00 A
	-99.17 G	-2.75 K		
70.0	-----		0.00 G	0.00 A
	-103.94 G	-2.86 K		
60.0	-----		-0.01 A	0.00 A
	-108.75 G	-2.92 K		
50.0	-----		-0.02 A	0.00 A
	-113.54 G	-3.02 K		
40.0	-----		-0.03 K	0.00 A
	-118.72 G	-3.24 K		
33.3	-----		-0.27 K	0.00 G
	-119.80 G	-4.14 K		
20.0	-----		-0.01 G	0.00 G
	-128.44 G	-3.36 K		
13.3	-----		-0.24 K	0.00 A
	-129.59 G	-4.18 K		
0.0	-----		0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

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-----LOAD-----		COMPONENTS-----		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
12.59 G	11.03 K	135.15 G	-74.38 A	12.59 G

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

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-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 0.0				@ 0.0	
18.8 G	-16.8 D	18.8 G	84.6 I	2871.2 G	-2626.7 D	2871.2 G	-16.0 F

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Seismic Load Effects
Equivalent Lateral Force Procedure
ANSI/TIA-222-H

Parameters	Risk Category	Description	h _t (ft.)	w _t (kips)	W ₂ (kips)	w/h _{top}	Vertical Distribution of Seismic Forces			0.9 D - 1.0 E _v (kips)
							F _{az} or E _h (kips)	E _v (kips)	1.2 D + 1.0 E _v (kips)	
II	R	Antenna Load	250.00	12.0000	12.0000	8,853.5511	1.1747	0.4272	14.8272	10.3728
		Structure - Section 1	247.50	1.3170	1.1195	960.0674	1.1274	0.0469	1.6273	1.1384
		Ladder/Line	245.00	0.2272	0.2272	163.6255	0.0217	0.0081	0.2807	0.1964
		Ladder/Line	239.50	0.0227	0.0000	15.9102	0.0021	0.0008	0.0280	0.0196
		Antenna Load	239.00	8.0000	0.0000	5,593.1166	0.7421	0.2848	9.8848	6.9152
	D (default)	Ladder/Line	234.00	0.2896	0.0000	197.4153	0.0262	0.0103	0.3578	0.2503
		Ladder/Line	234.00	0.1024	0.0000	69.8043	0.0093	0.0036	0.1265	0.0886
		Structure - Section 2	230.00	1.9250	0.0000	1,285.4560	0.1706	0.0685	2.3785	1.6640
		Antenna Load	229.00	8.0000	0.0000	5,314.3876	0.7051	0.2848	9.8848	6.9152
		Ladder/Line	224.50	0.2606	0.0000	169.0554	0.0224	0.0093	0.3220	0.2252
C	S _{MS}	Ladder/Line	224.50	0.2045	0.0000	132.6625	0.0176	0.0073	0.2527	0.1768
		Ladder/Line	217.50	0.1448	0.0000	90.4419	0.0120	0.0052	0.1790	0.1251
		Ladder/Line	217.50	0.1136	0.0000	70.9544	0.0094	0.0040	0.1403	0.0982
		Antenna Load	215.00	0.3100	0.0000	190.9669	0.0253	0.0110	0.3830	0.2680
		Antenna Load	215.00	0.3100	0.0000	190.9669	0.0253	0.0110	0.3830	0.2680
	S _{D1}	Mount Load	215.00	0.0500	0.0000	30.8011	0.0041	0.0018	0.0618	0.0432
		Mount Load	215.00	0.0500	0.0000	30.8011	0.0041	0.0018	0.0618	0.0432
		Mount/Antenna Load	215.00	0.3600	0.0000	221.7680	0.0294	0.0128	0.4448	0.3112
		Mount/Antenna Load	215.00	0.3600	0.0000	221.7680	0.0294	0.0128	0.4448	0.3112
		Structure - Section 3	210.00	2.0820	0.0000	1,246.9671	0.1655	0.0741	2.5725	1.7997
III	W (kips)	Ladder/Line	207.50	0.4344	0.0000	256.4741	0.0340	0.0155	0.5368	0.3755
		Ladder/Line	207.50	0.3720	0.0000	219.6325	0.0291	0.0132	0.4596	0.3216
		Ladder/Line	190.00	0.4960	0.0000	263.5548	0.0350	0.0177	0.6129	0.4287
		Ladder/Line	190.00	0.5792	0.0000	307.7640	0.0408	0.0206	0.7156	0.5007
		Structure - Section 4	190.00	2.3090	0.0000	1,226.9115	0.1628	0.0822	2.8530	1.9959
	T (sec)	Ladder/Line	170.00	0.4960	0.0000	230.7271	0.0306	0.0177	0.6129	0.4287
		Ladder/Line	170.00	0.5792	0.0000	269.4297	0.0357	0.0206	0.7156	0.5007
		Structure - Section 5	170.00	2.9750	0.0000	1,383.8974	0.1836	0.1059	3.6759	2.5716
		Ladder/Line	150.00	0.4960	0.0000	198.6492	0.0264	0.0177	0.6129	0.4287
		Ladder/Line	150.00	0.5792	0.0000	231.9710	0.0308	0.0206	0.7156	0.5007
Seismic Design Category	Structure - Section 6	Ladder/Line	150.00	3.0090	0.0000	1,205.1118	0.1599	0.1071	3.7179	2.6010
		Ladder/Line	130.00	0.5792	0.0000	195.4811	0.0259	0.0206	0.7156	0.5007
		Ladder/Line	130.00	0.4960	0.0000	167.4010	0.0222	0.0177	0.6129	0.4287
		Structure - Section 7	130.00	3.5970	0.0000	1,213.9944	0.1611	0.1281	4.4445	3.1092
		Ladder/Line	110.00	0.5792	0.0000	160.0789	0.0212	0.0206	0.7156	0.5007
	V _s (kips)	Ladder/Line	150.00	0.4960	0.0000	198.6492	0.0264	0.0177	0.6129	0.4287
		Ladder/Line	150.00	0.5792	0.0000	231.9710	0.0308	0.0206	0.7156	0.5007
		Ladder/Line	150.00	3.0090	0.0000	1,205.1118	0.1599	0.1071	3.7179	2.6010
		Ladder/Line	130.00	0.5792	0.0000	195.4811	0.0259	0.0206	0.7156	0.5007
		Ladder/Line	130.00	0.4960	0.0000	167.4010	0.0222	0.0177	0.6129	0.4287

Seismic Load Effects
Equivalent Lateral Force Procedure
ANSI/TIA-222-H

Description	h _i (ft.)	w _i (kips)	W ₂ (kips)	Vertical Distribution of Seismic Forces				
				w _i h _i ^{ks}	F _{sz} or E _{sh} (kips)	E _v (kips)	1.2 D + 1.0 E _v (kips)	0.9 D - 1.0 E _v (kips)
Ladder/Line	110.00	0.4960	0.0000	137.0842	0.0182	0.0177	0.6129	0.4287
Structure - Section 8	110.00	3.7300	0.0000	1,030.8951	0.1368	0.1328	4.6088	3.2242
Ladder/Line	90.00	0.4960	0.0000	107.8340	0.0143	0.0177	0.6129	0.4287
Ladder/Line	90.00	0.5792	0.0000	125.9223	0.0167	0.0206	0.7156	0.5007
Structure - Section 9	90.00	5.0130	0.0000	1,089.8626	0.1446	0.1785	6.1941	4.3332
Ladder/Line	70.00	0.4960	0.0000	79.8397	0.0106	0.0177	0.6129	0.4287
Ladder/Line	70.00	0.5792	0.0000	93.2322	0.0124	0.0206	0.7156	0.5007
Structure - Section 10	70.00	5.2530	0.0000	845.5604	0.1122	0.1870	6.4906	4.5407
Ladder/line	50.00	0.4960	0.0000	53.3888	0.0071	0.0177	0.6129	0.4287
Ladder/Line	50.00	0.5792	0.0000	62.3443	0.0083	0.0206	0.7156	0.5007
Structure - Section 11	50.00	5.4060	0.0000	581.8944	0.0772	0.1925	6.6797	4.6729
Ladder/Line	30.00	0.5792	0.0000	33.8427	0.0045	0.0206	0.7156	0.5007
Ladder/Line	30.00	0.4960	0.0000	28.9814	0.0038	0.0177	0.6129	0.4287
Structure - Section 12	30.00	6.1850	0.0000	361.3905	0.0480	0.2202	7.6422	5.3463
Ladder/Line	10.00	0.5792	0.0000	9.0955	0.0012	0.0206	0.7156	0.5007
Ladder/Line	10.00	0.4960	0.0000	7.7890	0.0010	0.0177	0.6129	0.4287
Structure - Section 13	10.00	6.5690	0.0000	103.1571	0.0137	0.2339	8.1167	5.6782
Σ		91.73	13.3467	37,333.68	4.95	3.27	11.35	79.29

Leg Connection Details												
Bottom Elevation (ft)	Top Elevation (ft)	Pipe Dimensions	Top Splice				Bottom Splice/Base					
			Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)
240	255	4.500 OD X .337						6	1.00	9.00	1.25	11.50
220	240	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
200	220	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
180	200	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	15.75
140	160	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
120	140	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
100	120	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
80	100	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
60	80	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
40	60	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
20	40	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
0	20	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.75	1.50	16.00

Diagonal Bracing Connection Details								
Bottom Elevation (ft)	Top Elevation (ft)	Angle Shape	Bolt Qty.	Bolt Dia. (in)	Bolt End Distance (in)	Bolt Spacing (in)	Gage Distance From Heel (in)	Gusset Plate Thickness (in)
240	255	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
220	240	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
200	220	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
180	200	L 2 1/2 X 2 1/2 X 3/16	1	0.625	1.500		1.375	0.375
160	180	L 2 1/2 X 2 1/2 X 3/16	1	0.750	1.500		1.375	0.375
140	160	L 3 X 3 X 3/16	1	0.750	1.625		1.750	0.375
120	140	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
100	120	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
80	100	L 4 X 4 X 1/4	1	0.750	1.625		2.000	0.375
60	80	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
40	60	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
33.33	40	L 4 X 4 X 1/4	2	0.750	1.625	2.6875	2.000	0.500
20	33.33	L 5 X 3 1/2 X 1/4	2	0.750	1.625	2.6250	1.750	0.500
13.33	20	L 4 X 4 X 5/16	2	0.750	1.625	2.5000	2.000	0.500
0	13.33	L 5 X 3 1/2 X 5/16	2	0.750	1.625	2.5000	1.750	0.500

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

255' S3TL Series HD1 VERTICAL BRIDGE REIT, LLC Hwy 243, KY (539269) 2024-10-10 KJT

Overall Loads:			
Factored Moment (ft-kips)	8525.41		
Factored Axial (kips)	248.17		
Factored Shear (kips)	55.83		
Individual Leg Loads:			
Factored Uplift (kips)	278.00		
Factored Download (kips)	351.00		
Factored Shear (kips)	34.00		
		Tower eccentric from mat (ft)=	2.5
Width of Tower (ft)	31	Allowable Bearing Pressure (ksf)	15.00
Ultimate Bearing Pressure	30.00	Safety Factor	2.00
Bearing Φ s	0.75		
Bearing Design Strength (ksf)	22.5	Max. Factored Net Bearing Pressure (ksf)	1.28
Water Table Below Grade (ft)	999		
Width of Mat (ft)	37	Minimum Mat Width (ft)	36.83
Thickness of Mat (ft)	1.5		
Depth to Bottom of Slab (ft)	5.5		
Bolt Circle Diameter (in)	12.75		
Effective Anchor			
Bolt Embedment	52.125		
Diameter of Pier (ft)	3.5	Minimum Pier Diameter (ft)	2.40
Ht. of Pier Above Ground (ft)	0.5	Equivalent Square b (ft)	3.10
Ht. of Pier Below Ground (ft)	4		
Quantity of Bars in Mat	66		
Bar Diameter in Mat (in)	1		
Area of Bars in Mat (in ²)	51.84		
Spacing of Bars in Mat (in)	6.72	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	20		
Bar Diameter in Pier (in)	0.875		
Tie Bar Diameter in Pier (in)	0.5		
Spacing of Ties (in)	4		
Area of Bars in Pier (in ²)	12.03	Minimum Pier A_s (in ²)	6.93
Spacing of Bars in Pier (in)	5.34	Recommended Spacing (in)	5 to 12
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.11		
Unit Wt. of Concrete (kcf)	0.15		
Volume of Concrete (yd ³)	80.87		

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES (CONTINUED)

Two-Way Shear:

Average d (in)	14		
ϕv_c (ksi)	0.201	v_u (ksi)	0.126
$\phi v_c = \phi(2 + 4/\beta_c)f_c^{1/2}$	0.302		
$\phi v_c = \phi(\alpha_s d/b_o + 2)f_c^{1/2}$	0.238		
$\phi v_c = \phi 4f_c^{1/2}$	0.201		
Shear perimeter, b_o (in)	204.89		
β_c	1		

Stability:

Overturning Design Strength (ft-k)	16376.3	Factored Overturning Moment (ft-k)	8860.4
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One-Way Shear:

ϕV_c (kips)	625.5	V_u (kips)	256.0
Pier Design:			
Design Tensile Strength (kips)	649.4	T_u (kips)	278.0

Shear:

ϕ	0.75		
V_c (kips)	113.4		
V_s (kips)	197.9	$V_{s,max}$ (kips)	757.3
ϕV_n (kips)	233.5	V_u (kips)	34.0
Maximum Spacing (in)	11.15	(Only if Shear Ties are Required)	
Actual Hook Development (in)	13.00	Req'd Hook Development l_{dh} (in) - Tension	10.96
		Req'd Hook Development l_{dc} (in) - Compression	11.81

Anchor Bolt Pull-Out:

$N_{ua} / \phi N_n$	0.59	$V_{ua} / \phi V_n$	0.15
Pier Rebar Development Length (in)	41.64	Required Length of Development (in)	23.48

Flexure in Slab:

ϕM_n (ft-kips)	3052.1	M_u (ft-kips)	1820.7
a (in)	1.83		
Steel Ratio	0.00834		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		

Condition	1 is OK, 0 Fails
Minimum Mat Width	1
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Two-Way Shear	1
Overturning	1
Anchor Bolt Pull-Out	1
Flexure	1
Steel Ratio	1
Interaction Diagram	1
One-Way Shear	1
Hook Development	1
Minimum Mat Depth	1
Anchor Bolt Punching Shear	1

PREPARED FOR:



PREPARED BY:



1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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

DRAWN BY:

MJB

CHECKED BY:

DS

REVISIONS

8	08/14/25	WAM	ADDED COUNTY TOWER MAP
7	08/11/25	JAE	CONSTRUCTION ISSUE
6	07/25/25	JAE	CONSTRUCTION ISSUE
5	07/10/25	MDR	ANNT. REVISED PER RFDS
4	10/07/24	JAE	CONSTRUCTION ISSUE
3	10/04/24	DWS	ADDED PROPANE GEN
2	09/04/24	DWS	RF REVISED
NO.	DATE	BY	DESCRIPTION

ENGINEER'S STAMP:



NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE NAME:

HWY 243

ADDRESS:

3178 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

COUNTY:

CASEY

LATITUDE:

37° 30' 33.53" N

LONGITUDE:

84° 57' 23.05" W

SITE NUMBER:

US-KY-5186

SHEET TITLE:

COUNTY TOWER MAP

DRAWING NO.

ASR

REVISION:

8

TOWER

OWNER

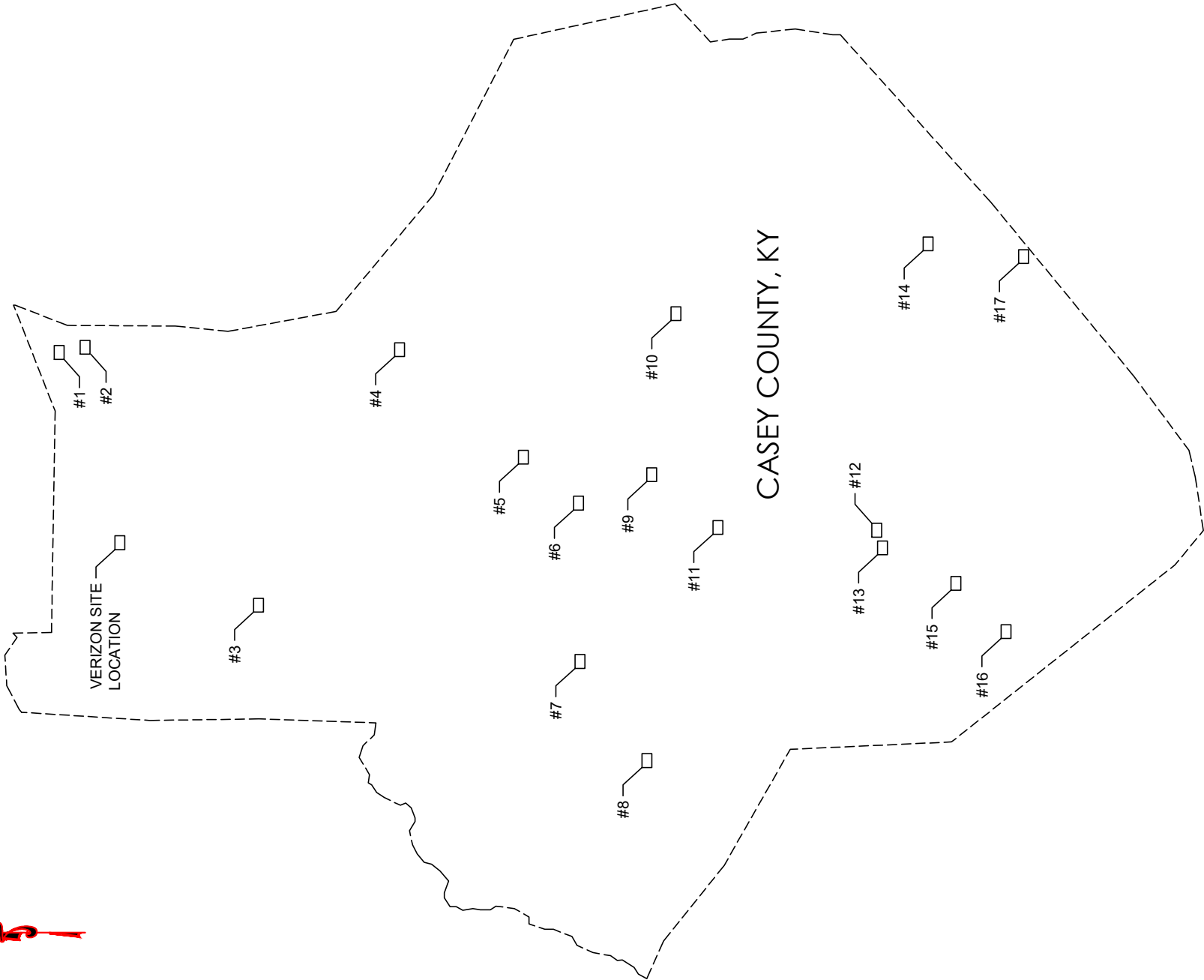
ASR

LATITUDE

LONGITUDE

#1.	EDUCATIONAL MEDIA FOUNDATION	1234122	37°31'27.30"N	84°52'11.80"W
#2.	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS	1044843	37°31'10.00"N	84°52'10.80"W
#3.	CITY SWITCH II, LLC	1312991	37°27'17.60"N	84°59'26.10"W
#4.	CCATT LLC - CROWN CASTLE	1244845	37°24'8.40"N	84°52'12.50"W
#5.	GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC	1042417	37°21'23.00"N	84°55'13.00"W
#6.	COUNTY OF CASEY	1321933	37°20'7.60"N	84°56'32.40"W
#7.	CTI TOWERS ASSETS II, LLC	1313732	37°20'8.60"N	85° 0'58.00"W
#8.	CNS MICROWAVE, LLC	1044720	37°18'36.00"N	85° 3'45.00"W
#9.	CROWN CASTLE SOUTH LLC	1043347	37°18'35.10"N	84°55'42.30"W
#10.	EAST KENTUCKY POWER COOPERATIVE, INC.	1234155	37°17'54.90"N	84°51'11.50"W
#11.	CENTER INDEPENDENT SCHOOL DISTRICT	1264914	37°17'3.10"N	84°57'12.10"W
#12.	UNITY TOWERS	1310312	37°13'26.70"N	84°57'18.90"W
#13.	SBA TOWERS III LLC	1263764	37°13'22.20"N	84°57'39.50"W
#14.	GLOBAL TOWER, LLC. THROUGH AMERICAN TOWERS, LLC	1264776	37°12'15.80"N	84°49'13.10"W
#15.	HEMPHILL CORPORATION	1232541	37°11'39.30"N	84°58'48.80"W
#16.	CELLCO PARTNERSHIP	1275314	37°10'31.00"N	85° 0'11.50"W
#17.	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA WKSO TV	1044043	37°10'3.00"N	84°49'30.00"W

#18.	PROPOSED VERIZON WIRELESS	TBD	37° 30'33.53"N	84°57'23.05"W
------	---------------------------	-----	----------------	---------------



CASEY COUNTY, KY

Privacy Act Statement (5 U.S.C. § 552a(e)(3)): Authority: Information solicited by the Federal Aviation Administration (FAA) Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) is authorized by 49 U.S.C. § 44718 and 47101 Purpose: The FAA OE/AAA is an application used to evaluate all structures that may affect the national airspace system and defend against potential hazards to the safety and efficient use of the navigable airspace. The information collected is used to allow a user access to the OE/AAA and to administer the Aeronautical Study Process. Routine Uses: In accordance with the Privacy Act system of records notice, DOT/ALL 16 Mailing Management System and DOT/FAA 826 Petitions for Exemptions, Other than Medical Exemptions this information may be disclosed to officials within the federal government and the public in general. DOT/ALL 13 - Internet/Intranet Activity and Access Records, this information is routinely used; • To provide information to any person(s) authorized to assist in an approved investigation of improper access or usage of DOT computer systems; • To an actual or potential party or his or her authorized representative for the purpose of negotiation or discussion of such matters as settlement of the case or matter, or informal discovery proceedings; • To contractors, grantees, experts, consultants, detailees, and other non-DOT employees performing or working on a contract, service, grant cooperative agreement, or other assignment from the Federal government, when necessary to accomplish an agency function related to this system of records; and • To other government agencies where required by law.

Disclosure: Submission of the information is voluntary, however, failure to submit requested information will result in FAA's inability to grant you access to the system and may result in an inability of the FAA to process the notice or administer the aeronautical study process for the construction, alteration, activation, or deactivation proposed.



U.S. Department of
Transportation
Federal Aviation
Administration

Failure to Provide All Requested Information May Delay Processing of your
Notice

Notice of Proposed Construction or Alteration

FOR FAA USE ONLY

Aeronautical Study
Number
2024-ASO-4359-OE

Status: Determined - No
Hazard

1.Sponsor Name:The Towers, LLC Attn of:Julie Heffernan Address:7500 Park of Commerce Dr Suite 200 City:Boca Raton State:FL Zip:33487 Country:US Phone:+1-561-406-4015 Fax:		9.Latitude:37° 30' 33.53" N 10.Longitude:84° 57' 23.05" W 12.Nearest State:KY County:Casey 13.Nearest Public Use Airport:DVK (or Military Airport/Heliport) 14.Distance from Airport to Structure:59620 ft 15.Direction from Airport to Structure:245.4° 16.Site Elevation (SE):1286 ft 17.Structure Height (AGL):310 ft 18.Overall Height (AMSL):1596 ft 19.Prior ASN (if applicable): 20.Description of Location:Minors Branch Road 21.Description of Proposal:New Site Build - MB
2.Sponsor's Representative Name:Vertical Bridge Attn of:Vertical Bridge Address:750 Park of Commerce Dr, Suite 200 City:Boca Raton State:FL Zip:33487 Country:US Phone:+1-561-406-4015 Fax:		
3.Notice of:New Construction 4.Duration:Permanent (Months:0 Days:0) 5.Work Schedule: 6.Type:Antenna Tower 7.Marking/Lighting: Dual-red and medium intensity 8.FCC Antenna Registration Number: (if applicable)		Frequencies: View Frequencies Letters: 02/05/2024 - DET



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

Aeronautical Study No.
2024-ASO-4359-OE

Issued Date: 05/02/2024

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-5186 - Hwy 243
Location: Gravel Switch, KY
Latitude: 37-30-33.53N NAD 83
Longitude: 84-57-23.05W
Heights: 1286 feet site elevation (SE)
 263 feet above ground level (AGL)
 1549 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 11/02/2025 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 (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2024-ASO-4359-OE.

Signature Control No: 613433112-620482795

(DNE)

Chris Smith
Specialist

Attachment(s)

Additional Information

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.

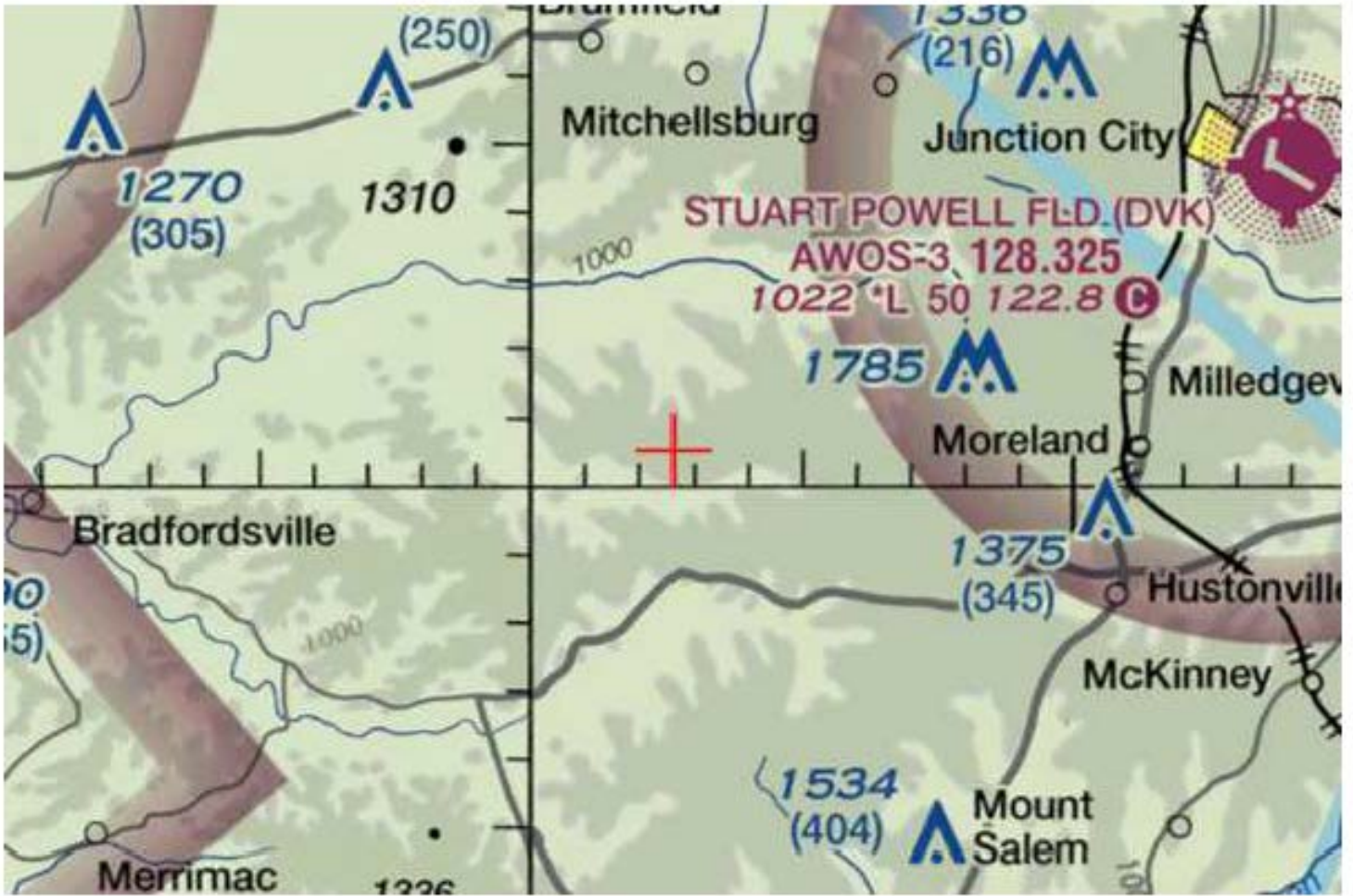
The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power 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.

Frequency Data for ASN 2024-ASO-4359-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





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.

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 ☒ New Construction ☐ Alteration ☐ Existing				WORK SCHEDULE	
DURATION ☒ Permanent ☐ Temporary (months days)				Start End	
TYPE ☐ Crane ☐ Building ☒ Antenna Tower ☐ Power Line ☐ Water Tank ☐ Landfill ☐ Other		MARKING/PAINTING/LIGHTING PREFERRED ☐ Red Lights & Paint ☐ White- medium intensity ☐ White- high intensity ☒ Dual- red & medium intensity white ☐ Dual- red & high intensity white ☐ Other			
LATITUDE 37°30'33.53"		LONGITUDE - 84°57'23.05"		DATUM ☒ NAD83 ☐ NAD27 ☐ Other	
NEAREST KENTUCKY City Gravel Switch County Casey		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT 2M0 Princeton-Caldwell County			
SITE ELEVATION (AMSL, feet) 1,286		TOTAL STRUCTURE HEIGHT (AGL, feet) 310		CURRENT (FAA aeronautical study #) 2024-ASO-4359-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1,596				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 9.81 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 310' AGL Self-Support Tower					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) ☐ No ☒ 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 03/01/2024	
COMMISSION ACTION		☐ Chairperson, KAZC ☐ Administrator, KAZC			
☐ Approved ☐ Disapproved		SIGNATURE		DATE	

FAA 1-A SURVEY CERTIFICATION

Applicant: Verizon Wireless

Site Name: LV HWY 243

Location Code: 721755

Site Location: Minors Branch Road, Gravel Switch, KY 40328

Survey Type: GPS Survey

Horizontal Datum: NAD83

Vertical Datum: NAVD88

Benchmark: DH7217 KYCP CORS ARP

Structure Type: Proposed Tower

CENTER OF PROPOSED TOWER

		Decimal Degrees	Degrees Minutes Seconds
Latitude:	NORTH:	37.509314°	37° 30' 33.53"
Longitude:	WEST:	84.956403°	84° 57' 23.05"

ELEVATIONS:

Ground Elevation at Center 1,286.2 Feet AMSL (NAVD88)

CERTIFICATION

I certify that the coordinates specified above are accurate to within 20± feet horizontally and that the elevation(s) specified above are accurate to within 3± feet vertically. Horizontal Coordinates are in terms of the North American Datum of 1983 and are expressed as decimal degrees, to the nearest 10⁻⁶ degree (0.01 Seconds). Elevations are in terms of the North American Vertical Datum of 1988 (NAVD 88) and are determined to the nearest 0.1 foot. Horizontal Coordinates and Elevations established on site by means of a GPS survey.

Travis L. Shields
Kentucky P.L.S. #4246
5449 Highway #41, Jasper, TN 37347
(423) 304-6722



Date: November 03, 2022



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, May 2, 2024

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

AS-2024-027-DVK **Stuart Powell Field**
APPLICANTS NAME: Vertical Bridge REIT, LLC
NEAREST CITY: Gravel Switch, KY
LATITUDE/LONGITUDE: 37°30'33.53" N, 84°57'23.05" W
HEIGHT (In Feet): 263' AGL /1549' AMSL
CONSTRUCTION PROPOSED: Telecommunications Tower

NOTES: The tower location is approximately 9.8 nm SW of DVK and exceeds 200 ft AGL. It penetrates no protected air surfaces.

FAA DETERMINATION: 2024-ASO-4359-OE. No Hazard/No Impact to Navigation. Marking and Lighting required IAW AC 70/7460-1 M, med-dual system-Chapters 4,8(M-Dual),&15. Emissions must adhere to the FAA 5G C-band compatibility evaluation process.

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

February 14, 2024

Prepared For:

TeleCAD Wireless



**LV Hwy 243
Gravel Switch KY**

Proposed 300-Foot Self-Supporting Tower

+/- 3180 Minors Branch Road, Gravel Switch (Casey County), Kentucky 40328
Latitude N 37° 30' 33.53" Longitude W 84° 57' 23.05"

Delta Oaks Group Project GEO24-20675-08

Revision 0

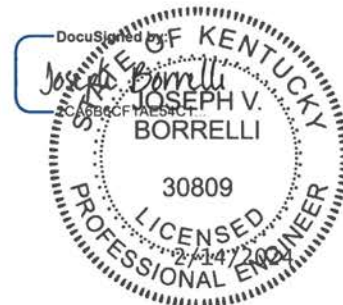
geotech@deltaoaksgroup.com

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 300-foot self-supporting tower located at +/- 3180 Minors Branch Road in Gravel Switch (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 on a wooded hillside exhibiting a moderately steep sloping topography on the proposed access road and a gently sloping topography across the proposed tower compound.

REFERENCES

- Lease Exhibit Drawings, prepared by TeleCAD Wireless, dated November 14, 2022
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of six mechanical soil test borings to the auger refusal depth of 6.5 feet bgs (B-1) and the termination depth of 10.5 feet bgs (B-5, B-6, B-7, B-8, B-9). Proposed borings B-2, B-3, and B-4 could not be performed due to the steepness of the terrain and the inability to level the drill rig at the proposed test locations. Samples were obtained at selected intervals in accordance with ASTM D 1586. B-1 sampling was conducted adjacent to the staked centerline of the proposed tower and the remaining borings were conducted along the proposed access road. Coring was unable to be performed at the proposed tower location. The driller was unable to transport the water required for coring operations to the test location due to the steepness of the terrain.

Soil 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 logs presented in the Appendix of this report. A boring plan portraying the spatial location of the borings 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 beneath existing topsoil in the borings and consisted of lean clay and silty sand. The materials ranged from a medium stiff to very stiff consistency and a dense to very dense relative density.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 6.5 feet bgs near the proposed tower location.

ROCK

Bedrock was not verified through coring; however, it is likely that auger refusal depth indicates the top of rock.

SUBSURFACE WATER

At the time of drilling, 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 20,000 ohms-cm.



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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 - 4.0	CL	120	0	1,300
	4.0 - 7.0	SM	130	45	0

***Proposed borings B-2, B-3, and B-4 could not be performed due to the steepness of the terrain and the inability to level the drill rig at the proposed test locations.**

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-5	0.0 - 4.0	CL	120	0	800
	4.0 - 6.0	CL	115	0	700
	6.0 - 9.0	CL	120	0	1,300
	9.0 - 11.0	CL	120	0	2,300

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-6	0.0 - 4.0	CL	110	0	400
	4.0 - 6.0	CL	120	0	800
	6.0 - 9.0	CL	115	0	700
	9.0 - 11.0	SM	120	36	0

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-7	0.0 - 9.0	CL	120	0	900
	9.0 - 11.0	CL	120	0	1,800



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Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-8	0.0 - 4.0	CL	115	0	600
	4.0 - 6.0	CL	120	0	800
	6.0 - 9.0	CL	120	0	1,000
	9.0 - 11.0	CL	120	0	800

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-9	0.0 - 4.0	CL	120	0	800
	4.0 - 6.0	CL	120	0	900
	6.0 - 9.0	CL	120	0	1,200
	9.0 - 11.0	CL	120	0	2,400

- 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	8,980
		4.0	9,300
		Greater than 5.0	Greater than 30,000
	10.0 x 10.0	3.0	8,500
		4.0	8,660
		Greater than 5.0	Greater than 30,000
	15.0 x 15.0	3.0	8,340
		4.0	8,450
		Greater than 5.0	Greater than 30,000
	20.0 x 20.0	3.0	8,260
		4.0	8,340
		Greater than 5.0	Greater than 30,000
	25.0 x 25.0	3.0	8,210
		4.0	8,270
		Greater than 5.0	Greater than 30,000

- 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	120	0	1,300	0.00	1.00	1300.00
Bottom	2.5	120	0	1,300	300.00	1.00	1450.00
Top	2.5	120	0	1,300	300.00	1.00	2900.00
Bottom	4.0	120	0	1,300	480.00	1.00	3080.00
Top	4.0	130	45	0	480.00	5.83	2797.65
Bottom	7.0	130	45	0	870.00	5.83	5070.73



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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 – 4.0	14,080	710	710
	4.0 – 7.0	15,560	770	580

- The top 3.0 feet of soil should be ignored due to 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 sidewalls 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 TeleCAD Wireless. 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

PAGE 1 OF 1

⚠ AFTER DRILLING : — Not measured

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PROJECT LOCATION Gravel Switch, KY

PAGE 1 OF 1

 AFTER DRILLING : — Not measured

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PROJECT LOCATION Gravel Switch, KY

PAGE 1 OF 1

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PROJECT LOCATION Gravel Switch, KY

PAGE 1 OF 1

▼ AFTER DRILLING : — Not measured

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PAGE 1 OF 1

 AFTER DRILLING : — Not measured

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DIRECTIONS TO SITE

DIRECTIONS FROM CASEY COUNTY CLERK: LEAVE FROM CAMPBELLSVILLE ST/KY-70X BUS. TURN LEFT ONTO HUSTONVILLE ST/KY-49. FOLLOW KY 49/KY-49. TURN SHARP RIGHT ONTO KY 78/ KY-78. FOLLOW KY 78/KY 78, TURN LEFT ONTO LITTLE SOUTH ROAD/KY-243. TURN RIGHT ONTO MAXEY VALLEY RD. TURN LEFT ONTO MINORS BRANCH RD. ARRIVE AT SITE ON LEFT.

BY: TELECAD WIRELESS, 423-843-9500

LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this 5th day of April, 2023, between **Peter and Angela Primiano**, Husband and Wife and both Kentucky residents with a mailing address of 3180 Minors Branch Road, Gravel Switch, Kentucky 40328, hereinafter collectively designated LESSOR and **Rural Cellular Corporation d/b/a Verizon Wireless** with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. **GRANT.** In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to install, maintain and operate a telecommunications tower, facility, and equipment ("Use") upon the Premises (as hereinafter defined), which are a part of that real property owned, leased or controlled by LESSOR at approximately 3180 Minors Branch Road, Gravel Switch, Kentucky 40328 (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. The Premises are a portion of the Property including a portion of the parcel of land space (the "Land Space") consisting of approximately 60' x 85', or 5,100 square feet of land, as shown in detail on Exhibit "B" attached hereto and made a part hereof. LESSOR hereby grants permission to LESSEE to install, maintain and operate the telecommunications tower, facility, and equipment, antennas and appurtenances described in Exhibit "B" attached hereto. LESSEE reserves the right to replace the aforementioned equipment with similar and comparable equipment. In addition, LESSOR hereby grants to LESSEE a non-exclusive right (the "Easements") over the Property for access, ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a thirty foot (30') wide right-of-way extending from the nearest public right-of-way, Minors Branch Road, to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, fiber, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "B" attached hereto and made a part hereof. The Property is also shown on the Tax Map of the City of Gravel Switch, as Tax Map ID Number 061-19F.

In the event any public utility is unable to use the Easements, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

LESSEE may survey the Premises and said survey shall then become Exhibit "C" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "B". Cost for such work shall be borne by the LESSEE.

2. **INITIAL TERM.** This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for five (5) years beginning on the Commencement Date (as hereinafter defined). The "Commencement Date" shall be the first (1st) day of the month after LESSEE begins construction of the telecommunications facility. LESSOR and LESSEE agree

VzW Site Name: LV HWY 243

Location Code: 721755

Atty: Coots Henke & Wheeler, P.C.; Daniel E Coots

that they shall acknowledge, in writing, the Commencement Date once construction of the telecommunications facility has commenced.

3. EXTENSIONS. This Agreement shall automatically be extended for 4 additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. RENTAL.

(a). Rental payments shall begin on the Commencement Date and be due at a total annual rental

on the first (1st) day of the

month, in advance, to LESSOR at 3180 Minors Branch Road, Gravel Switch, Kentucky 40328 or to such other person, firm, or place as LESSOR may, from time to time, designate in writing at least 30 days in advance of any rental payment date by notice given in accordance with Paragraph 20 below. LESSOR and LESSEE acknowledge and agree that the initial rental payment shall not be delivered by LESSEE until 60 days after the Commencement Date. Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

(b). For any party to whom rental payments are to be made, LESSOR or any successor in interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of Internal Revenue Service Form W-9, or equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

(c). The rental amount shall increase by ten percent (10%) at the beginning of each 5 year renewal term from the Commencement Date, as defined herein.

(d). ADDITIONAL EXTENSIONS. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to the annual rental payable with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".

5. ACCESS. LESSEE shall have the non-exclusive right of ingress and egress from a public right-of-way, 7 days a week, 24 hours a day, over the Property to and from the Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment over or along a thirty foot (30') right-of-way ("Easement"), which shall be depicted on Exhibit "B". LESSEE may use the Easement for the installation, operation and maintenance of wires, cables,

conduits and pipes for all necessary electrical, telephone, fiber and other similar support services. In the event it is necessary, LESSOR agrees to grant LESSEE or the provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR. Notwithstanding anything to the contrary, the Premises shall include such additional space sufficient for LESSEE's radio frequency signage and/or barricades as are necessary to ensure LESSEE's compliance with Laws (as defined in Paragraph 27).

6. CONDITION OF PROPERTY. LESSOR shall deliver the Premises to LESSEE in a condition ready for LESSEE's Use and clean and free of debris. Notwithstanding the foregoing, LESSEE shall be responsible for any tree clearing/site preparation associated with the Land Space and/or Easement areas. LESSOR represents and warrants to LESSEE that as of the Effective Date, the Premises is (a) in compliance with all Laws; and (b) in compliance with all EH&S Laws (as defined in Paragraph 24).

7. IMPROVEMENTS. The communications equipment including, without limitation, the tower, equipment shelters/platforms, antenna mounts, antennas, conduits, and other improvements shall be at LESSEE's expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, antennas, conduits, fencing and other screening, or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

8. GOVERNMENT APPROVALS. LESSEE's Use is contingent upon LESSEE obtaining all of the certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory soil boring test, environmental studies, or any other due diligence LESSEE chooses that will permit LESSEE's Use. By signing this Agreement, LESSOR consents to LESSEE making all necessary applications with the appropriate zoning authority and shall cooperate with LESSEE in its effort to obtain such approvals. LESSOR shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

9. TERMINATION. LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Premises is obsolete or unnecessary; (vi) with 3 months prior notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

10. INDEMNIFICATION. Subject to Paragraphs 11 and 12, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnifying Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written notice

of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any indemnified Party, at the indemnified Party's request, against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgment without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

11. INSURANCE. The LESSOR agrees that at its own cost and expense, LESSOR will maintain commercial liability insurance with limits not less than \$1,000,000 for injury to or death of one or more persons in any one occurrence and \$1,000,000 for damage or destruction in any one occurrence. The LESSEE agrees that at its own cost and expense, it will maintain commercial general liability insurance with limits not less than \$2,000,000 for injury to or death of one or more persons in any one occurrence and \$2,000,000 for damage or destruction in any one occurrence. The Parties agree to include the other Party as an additional insured. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

12. LIMITATION OF LIABILITY. Except for indemnification pursuant to Paragraphs 10 and 24, a violation of Paragraph 30, or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

13. INTERFERENCE.

(a). LESSOR agrees that LESSOR and other occupants of the Property will not cause interference to LESSEE's equipment (that is measurable in accordance with industry standards to the then existing equipment of LESSEE).

(b). Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of 48 hours following notice to the interfering party via telephone to LESSEE'S Network Operations Center (at (800) 224-6620/(800) 621-2622) or to LESSOR at (859) 209-1924, the interfering party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured.

(c). The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

14. REMOVAL AT END OF TERM. Upon expiration or within ninety (90) days of earlier termination, LESSEE shall remove LESSEE's Communications Equipment (except footings) and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

15. HOLDOVER. If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental in effect as of the date of the expiration of the Term. In the event that the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

16. RIGHT OF FIRST REFUSAL. If at any time after the Effective Date, LESSOR receives an offer or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities, to purchase fee title, an easement, a lease, a license, or any other interest in the Premises or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written notice to LESSEE of said offer ("LESSOR's Notice"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion of and interest in the Premises and/or this Agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written notice to LESSOR that LESSEE intends to meet such bona fide offer within thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this Paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with notice of LESSEE's intention to meet the third party offer within thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE may require a reasonable period of time to conduct due diligence and effectuate the closing of a transaction on substantially equivalent financial terms of

the third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right of first refusal.

17. RIGHTS UPON SALE. Should LESSOR, at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this Paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, then LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

18. LESSOR'S TITLE LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easements, restrictions or other impediments of title that will adversely affect LESSEE's Use.

19. ASSIGNMENT. Without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to (i) any entity in which the Party directly or indirectly holds an equity or similar interest; (ii) any entity which directly or indirectly holds an equity or similar interest in the Party; or (iii) any entity directly or indirectly under common control with the Party. LESSEE may unilaterally assign this Agreement without the approval or consent of LESSOR to any third party tower company that agrees to construct and develop the Premises. LESSEE may also assign this Agreement to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization without approval or consent of LESSOR. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the other Party, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of either Party shall constitute an assignment hereunder. LESSEE may sublet the Premises in LESSEE's sole discretion.

20. NOTICES. Except for notices permitted via telephone in accordance with Paragraph 13, all notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

VzW Site Name: LV HWY 243
Location Code: 721755
Atty. Coots Henke & Wheeler, P C : Daniel E. Coots

LESSOR: Peter and Angela Primiano
3180 Minors Branch Road
Gravel Switch, Kentucky 40328

LESSEE: Rural Cellular Corporation
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, New Jersey 07921
Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

21. SUBORDINATION AND NON-DISTURBANCE. If applicable and within fifteen (15) days of the Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

22. DEFAULT. It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within thirty (30) days after written notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted thirty (30) days and diligently pursue the cure to completion within ninety (90) days after the initial written notice, or (ii) LESSOR fails to comply with this Agreement

and the failure substantially interferes with LESSEE's Use, in LESSEE's reasonable discretion, and LESSOR does not remedy the failure within five (5) days after written notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted five (5) days and diligently pursue the cure to completion within fifteen (15) days after the initial written notice. The cure periods set forth in this Paragraph 22 do not extend the period of time in which either Party has to cure interference pursuant to Paragraph 13 of this Agreement.

23. REMEDIES. In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

24. ENVIRONMENTAL. LESSEE shall conduct its business in compliance with all applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless the LESSOR from claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws by LESSOR or its employees, contractors or agents, or a release of any regulated substance to the environment caused by LESSOR, its employees, contractors or agents, except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of LESSOR's property and that LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location or, if LESSEE desires to remove at its own cost all or some the hazardous substances or materials (such as soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

25. CASUALTY. If a fire or other casualty damages the Property or the Premises and substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, rent shall abate until LESSEE's Use is restored. If LESSEE's Use is not restored within forty-five (45) days, LESSEE may terminate this Agreement.

26. CONDEMNATION. If a condemnation of any portion of the Property or Premises substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs

and, specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

27. APPLICABLE LAWS. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all Laws relating to the Property, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

28. TAXES.

(a). LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on the LESSEE and required to be collected by the LESSOR based on any service, rental space, or equipment provided by the LESSOR to the LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on the LESSEE and required to be paid by the LESSEE that are directly attributable to the LESSEE's equipment or LESSEE's use and occupancy of the Premises. Payment shall be made by LESSEE within sixty (60) days after presentation of a receipted bill and/or assessment notice which is the basis for such taxes or charges. LESSOR shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, assessments or other taxes or charges that are attributable to LESSOR's Property or any portion thereof imposed by any Government Entity.

(b). LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

29. ACCESS TO TOWER. LESSOR agrees the LESSEE shall have free access to the Tower at all times for the purpose of installing and maintaining the said equipment. LESSOR shall furnish LESSEE with necessary means of access for the purpose of ingress and egress to this site and Tower location. It is agreed, however, that only authorized engineers, employees or properly authorized contractors of LESSEE or persons under their direct supervision will be permitted to enter said premises

30. NON-DISCLOSURE. The Parties agree this Agreement and any information exchanged between the Parties regarding the Agreement are confidential. The Parties agree not to provide copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law. If a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

31. MOST FAVORED LESSEE. LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within thirty (30) days after the effective date of such offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering. LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

32. MISCELLANEOUS. This Agreement contains all agreements, promises and understandings between the LESSOR and the LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either the LESSOR or the LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules. Except as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

[Signature page follows. The remainder of this page is intentionally blank.]

VzW Site Name: LV HWY 243

Location Code: 721755

Atty: Coots Henke & Wheeler, P.C.: Daniel E. Coots

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

LESSOR:

Melanie G. Edgington

WITNESS



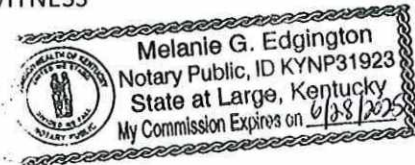
Peter Primiano

Peter Primiano

Date: 1/18/2023

Melanie G. Edgington

WITNESS



Angela Primiano

Angela Primiano

Date: 2-2-23

LESSEE:

RURAL CELLULAR CORPORATION d/b/a
Verizon Wireless

Barbara Madigan Wans
WITNESS Barbara Madigan Wans

By: Ed Maher

Ed Maher

Its: Director - Network Field Engineering

Date: 4/5/23

EXHIBIT "A"

DESCRIPTION OF PROPERTY

Property located in Casey County, Kentucky

Parcel 1:

Tract One: Beginning at a beech and lynn in Minor's line; thence South 55 deg. East 78 poles to a white oak; thence North 55 deg. East 64 poles to a maple; thence North 130 poles to two small hickories on beech of knob; thence West 112 poles to two beeches in Minor's line; thence with his line South 125 poles to the beginning.

There is excluded from this tract an off-conveyance to Howard Conder. Said off-conveyance being of record in Deed Book 62, Page 352, in the office of the Clerk of the Casey County Court.

Tract Two: A certain tract or parcel of land lying in Casey County, Kentucky, on Elk Cave Branch of Harlan's branch of North Rolling Fork of Salt River and bounded as follows: Beginning at a double sugar tree; David Green's corner, thence with his line N 50 deg. 50 min. West 28-1/5 rods to a stone with three ashes and red bud as pointers, formerly three dogwoods, David Green's corner and Minor's corner; thence with Minor's line North 61 deg. 40 min. East 22 rods to stone corner, formerly sugar tree, supposed to be Minor's corner now Elder's; thence N 21 deg. 40 min. East 27-1/5 rods to a large beech J.W. Gee's corner; thence his line S 52 deg. 50 min. East 47 rods to a stake in J.L. King's line, thence with it South 62 deg. 10 min. West 50 rods to the beginning, this corner is on top of hill.

There is excluded from Tract Two the following off-conveyance from B.H. Mills, single to James S. Mills and Susie Mills, his wife, by deed dated the 6th day of July, 1971, and of record in Deed Book 82, Page 433 in the office of the Clerk of the Casey County Court: Beginning at a small black oak and running North 3 deg. West 24.56 poles to a stone on the North side of the creek; thence up the creek South 24 deg. East 17 poles to an ash on the South side of the road; thence South 38 deg. West 13.40 poles to the point of beginning, and containing 1-2/10 acres, more or less, according to the survey of Lewis J. Cochran, Reg. #1038, dated June 5, 1971.

Parcel 2:

Tract No. 1:

Beginning at a stone, papaw and sassafras on the knob in A. J. Shearin's line; thence with his line N 12 W 54 poles to a beech and dogwood; thence 58 W 54-1/2 poles to a white oak stump; thence S 11-1/2 E 80-1/2 poles to a hickory on the top of the knob in G.L. Minor's line; thence with top of knob S 82-1/2 E 38 poles to a black oak and chestnut; thence W 37 E 8-3/5 poles to the beginning, containing 17 acres, the boundary taken for more or less.

Tract No. 2:

Beginning at a white oak on Harlins Branch, corner to M.A. Carter; thence S 2 E 68 poles to a hickory corner to same, thence with G.L. Minors to a double poplar; thence E 86 poles to a beech, corner to James King; thence S 10 W 32 poles to a beech and hickory corner to same; thence N 74 W 26 poles to the beginning, the boundary taken for 20 acres, more or less.

Tract No. 3:

Beginning at a hickory and sugar tree on a ridge; N 33 W 114 poles to a double poplar thence S with West side of ridge 84 poles to four small chestnuts on point of knob; thence East course a straight line to the beginning, containing about 8 acres, more or less.

Tract No. 4:

Beginning at a beech; thence S 10 W 34 poles to a hickory; thence S 54 E 13 poles to a stone; thence N 10 E 40-1/2 (sic) poles to the beginning, containing 3 acres, more or less.

There is excluded from the above the parcels or properties described in the following deeds:

- (1) .912 acres conveyed to Jay T. Crowe in Deed Book 181, Page 760, in the Casey County Clerk's office;**
- (2) 1.598 acres conveyed to Steve Weaver and Kay Weaver in Deed Book 168, Page 634, in the aforesaid Clerk's office;**
- (3) 2.302 acres conveyed to Tracy Mills in Deed Book 167, Page 192, in the aforesaid Clerk's office;**
- (4) 2.261 acres conveyed in Deed Book 165, Page 413, in the aforesaid Clerk's office;**
- (5) 13.09 acres conveyed to Glen Bailes in Deed Book 120, Page 457, in the aforesaid Clerk's office;**
- (6) 2.12 acres conveyed to Jay Thomas Crowe in Deed Book 119, Page 185, in the aforesaid Clerk's office;**
- (7) .65 acres conveyed in Deed Book 126, Page 635, in the aforesaid Clerks' office;**

AND BEING the same property conveyed to Peter Primiano and Angela Primiano from Jerald C. Shepherd and Mary M. Shepherd by Deed dated April 27, 2011 and recorded May 6, 2011 in Deed Book 274, Page 248.

Tax Parcel No. 061-19F

VzW Site Name: LV HWY 243

Location Code: 721755

Atty. Coots Henke & Wheeler, P C Daniel E. Coots

EXHIBIT "B"

SITE PLAN OF THE PREMISES AND DESCRIPTION OF TOWER EQUIPMENT

PROJECT SUMMARY

SITE NAME: LV HWY 243
SITE ADDRESS: + - 3180 MINORS BRANCH RD.
 GRAVEL SWITCH, KY 40328

COUNTY: METCALFE COUNTY

JURISDICTION: LA

SITE COORDINATES:
 LATITUDE: 37° 30' 33.53" N (NAD83)
 LONGITUDE: 84° 57' 23.05" W (NAD83)
 ELEVATION: 1784.2'

FILE PROJECT ID: 16913436

FILE CODE: 721735

PROPERTY OWNER: PETER PRYMANO & ANGELA PRYMANO
 3180 MINORS BRANCH RD
 GRAVEL SWITCH, KY 40328

PROPERTY OWNER CONTACT: (859) 209-1724

TOWER OWNER: CELCO PARTNERSHIP D/B/A VERIZON WIRELESS
 2702 KING ROAD
 ELIZABETH, KY 42701

TOWER OWNER CONTACT: JACQUE TRINACHT
 270-750-0023

STRUCTURE TYPE: SELF SUPPORT TOWER

TOWER HEIGHT: 300'

ENVIRONMENTAL REQ.: N/A

BUILDING CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

2015 INTERNATIONAL BUILDING CODE TIA-902.0205 OR LATEST EDITION
 (ADOPTED OF 2012 IBC AND 675 IAC 13-2-4)

2015 INTERNATIONAL MECHANICAL CODE
 (ADOPTED OF 2012 IMC AND 675 IAC 18-1-4)

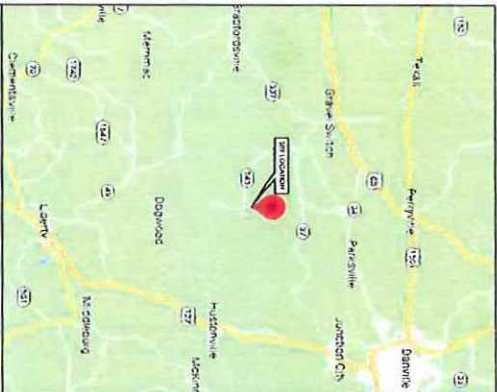
2009 NATIONAL ELECTRICAL CODE
 (ADOPTED OF 2008 NFPA 70 AND 675 IAC 17-1-B)

STRUCTURAL REVIEW

MOIST ANALYSIS PERFORMED BY OTHERS.



VICINITY MAP



NOT TO SCALE

SHEET SCALE FACTOR:
 11" = 17' TO SCALE

LOCATION MAP



NOT TO SCALE

AERIAL MAP



NOT TO SCALE

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	LEASE EXHIBIT
3	
4	
5	
6	
7	
8	
9	
10	

SCOPE OF WORK

- INSTALL GROUND MOUNTED EQUIPMENT WITHIN A 40' X 85' LEASE AREA.
- INSTALL AN ARRAY OF ANTENNAS ON A NEW ANTENNA TOWER MOUNT AT
- RADIO CENTER HEIGHT OF 297' ABOVE GRADE LEVEL.
- INSTALL UNDERGROUND POWER AND FIBER CONDUITS TO NEW UTILITY
- HERNANE WITHIN THE TOWER OWNER FENCED COMPOUND.
- INSTALL NEW 300' SELF SUPPORT TOWER

ALL WORK MUST BE DONE IN ACCORDANCE TO THE DRAWINGS.



1961 NORTHPOINT BLVD.
 SUITE 100
 HICKMAN, TN 37343
 TEL: 615-436-9200
 FAX: 615-436-9200



THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CLIENT. THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY: CFB

CHECKED BY: ---

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	11/11/2013	DLJ	LEASE EXHIBIT

FILE ID: 16913436

SITE NAME: LV HWY 243

SITE # / LOCATION CODE: 721735

SITE ADDRESS: + - 3180 MINORS BRANCH RD.
 GRAVEL SWITCH, KY 40328

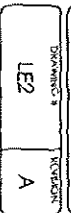
SITE TYPE: RURAL LAND

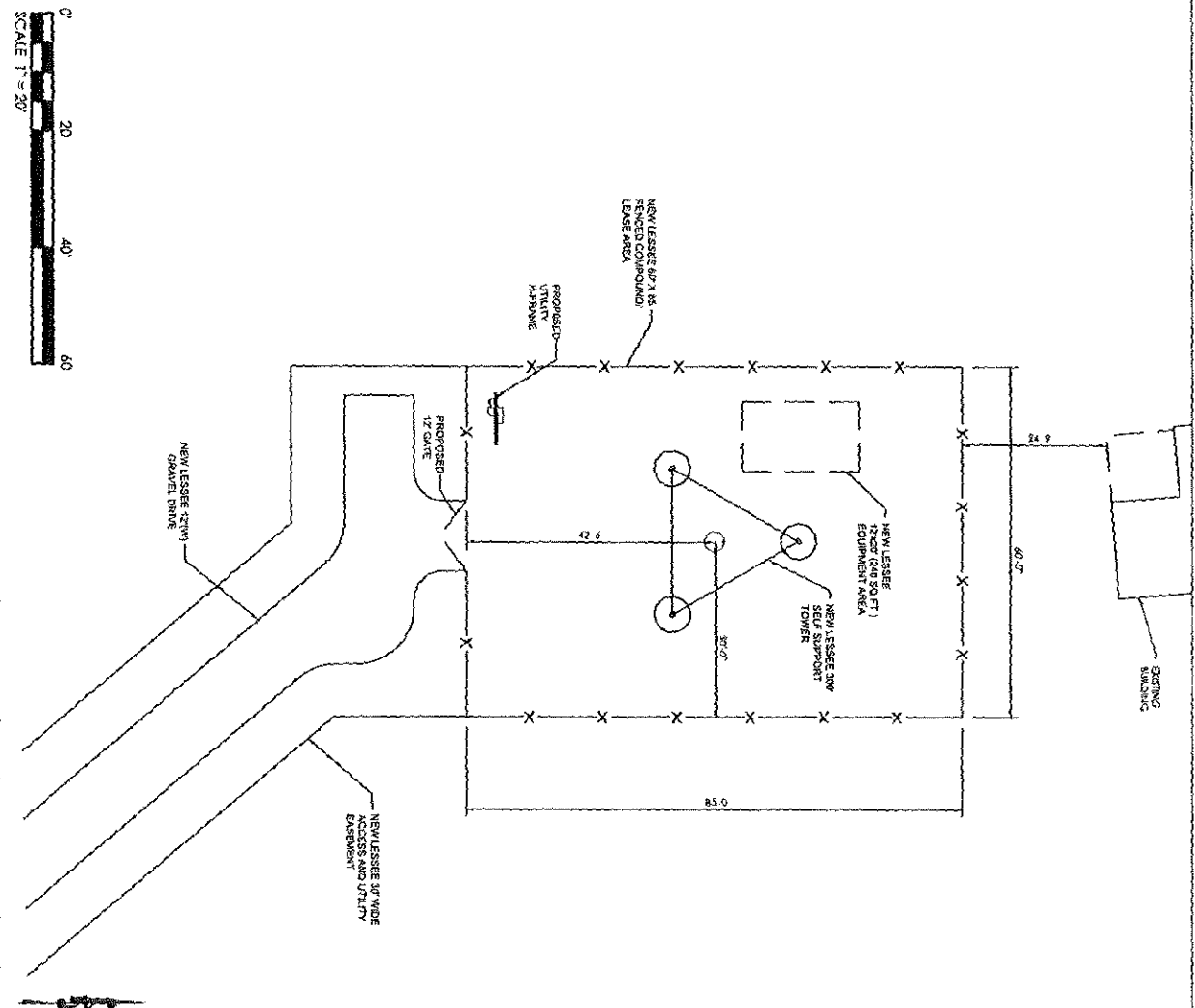
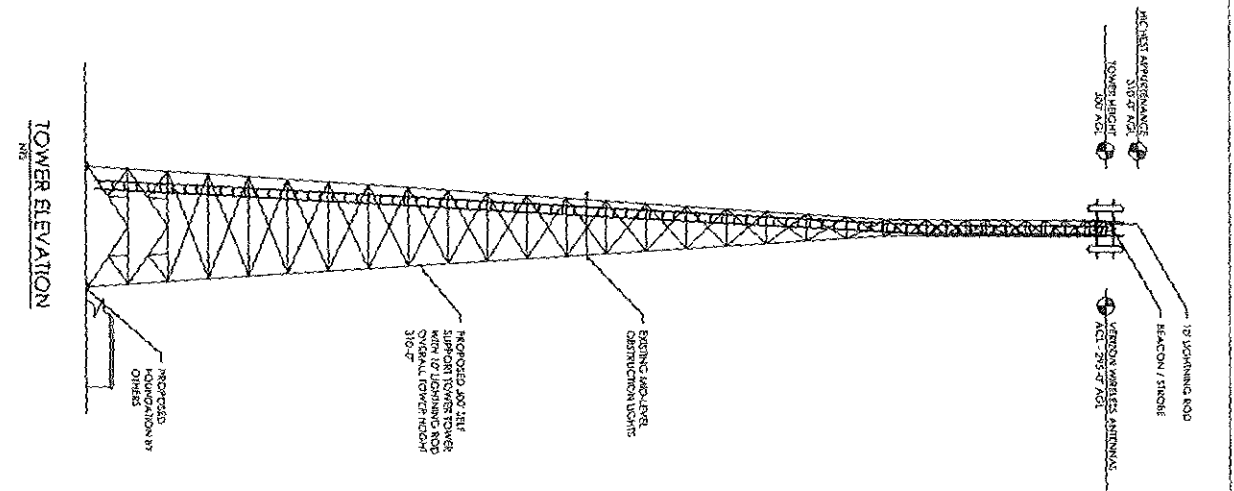
LATITUDE: 37° 30' 33.53" N (NAD83)

LONGITUDE: 84° 57' 23.05" W (NAD83)

SHEET TITLE: TITLE SHEET

DRAWING #: LE1 REVISION: A





1761 HORNWATER BLVD SUITE 100 WILSON, NJ 07090 TEL: 201-261-1700 FAX: 201-261-1701	
THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY TO VERIZON WIRELESS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFIC PURPOSES FOR WHICH IT WAS PREPARED. THE CLIENT IS STRICTLY PROHIBITED FROM REPRODUCING OR TRANSMITTING THIS INFORMATION IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF VERIZON WIRELESS.	
DRAWN BY: CJB CHECKED BY: --- REVISIONS:	TITLE: 1761 HORNWATER SITE NAME: 1761 HORNWATER SITE # / LOCATION CODE: 27122 SITE ADDRESS: 1761 HORNWATER * 3180 MARION BRANCH RD GRAVEL SWATH VT 05355 SITE TYPE: RURAL LATITUDE: 37-39 30.33 N (NAD83) LONGITUDE: 84-27 29.07 W (NAD83) SHEET TITLE: LEASE EASEMENT DRAWING #: LE3 REVISION: A

VzW Site Name, LV HWY 243

Location Code: 721755

Atty: Coots Henke & Wheeler, P.C. Danrel E Coots

EXHIBIT "C"

SURVEY

GENERAL NOTES:

1. This Survey is prepared exclusively to show site conditions and/or for use in support of instruments related to Leases and Easements as may be shown hereon. Any property boundary information shown hereon is a composite of information gathered from current or previous Surveys, Plat & Deed Description and/or Assessor's Tax Maps as may be referenced hereon. This Survey is not a Boundary Survey of any Tax Parcels or Deed Tracts, and does not create, combine, or divide any existing properties. Leases & Easements shown hereon may be subject to change pending review and approval by Carrier, applicable jurisdictions and/or another involved parties.
2. Survey shown hereon was performed under the supervision of a state-registered Land Surveyor and conforms to all applicable State Board Requirements.
3. Instruments Used: One or more of: Topcon Total Station, Topcon Hiperliffe Plus GPS, Carlson Surveyor Data Collector, DJI UAV.
4. Where shown, improvements (utilities, buildings, trees, fences, etc.) are based on field Survey and/or aerial mapping.
5. Any Underground Utilities shown according to surface markings made by others, found at time of survey, Additional marked utilities outside the area covered by this survey map may be shown in provided CAD Files. Utility Markings may not be comprehensive; this survey does not relieve design and construction personnel of the responsibility to determine the locations of underground utilities prior to land disturbance activities.
6. This Survey is presented in the format required by Clients. Clients are advised that Official Jurisdictions may require the Survey to be presented in another format with additional notes and certifications. In the event other formats, notes or certifications are requested by applicable jurisdictions, it is the responsibility of the Client to request same be prepared by Surveyor. Survey as published is not intended to be suitable for recording as a Subdivision Plat.
7. This survey may have been reduced or enlarged in size due to subsequent reproduction. This should be taken into consideration when obtaining scaled data.
8. Geographic Coordinates, if published, meet FAA Accuracy Code 1A, and are accurate to within ± 20 feet horizontally and to within ± 3 feet vertically.
9. Any Flood Zone information presented hereon is according to current FEMA Flood Map information as may be referenced hereon. No Flood Elevation Survey of Certification performed.
10. This survey is not valid without the original signature seal of a State-Licensed Land Surveyor, and is not complete without the total of sheets as specified in Survey Title Blocks.

SURVEYOR'S CERTIFICATION

To: Verizon Wireless
I hereby certify (or state) that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Kentucky to the best of my knowledge, information, and belief.



Travis L. Shields
Kentucky PLS
License No. 4246

PROPOSED TOWER LOCATION DATA

Latitude: NORTH: 37° 30' 33.53"
Longitude: WEST: 84° 56' 23.05"
Ground Elev: 1,286.2 FEET AMSL (NAVD88)
Benchmark: DHT717 KYCP

PARENT TAX PARCEL

PETER PRIMIANO & ANGELA PRIMIANO
TAX PARCEL: 061-19F

NORTH ORIENTATION

KENTUCKY SOUTH STATE PLANE COORDINATE SYSTEM
Based on GPS Survey relative to NGS CORS Network, NAD83 (2011)
ELEVATION DATUM: NAVD88, GEOID 128
DATE OF SURVEY: 10-16-2022
Method: RTK (CORS); Confidence Level: 95%
Positional Accuracy: $\pm 0.10'$
EPOCH 2010.0000

FLOOD DATA

FEMA FLOOD MAP PANEL: 21045C0050D, Effective Date: 07-07-2009
Surveyed Area appears to lie within: ZONE X (Areas of Minimal Flood Hazard)

TITLE EXAMINATION:

Not available

LOCATION MAP NOT TO SCALE



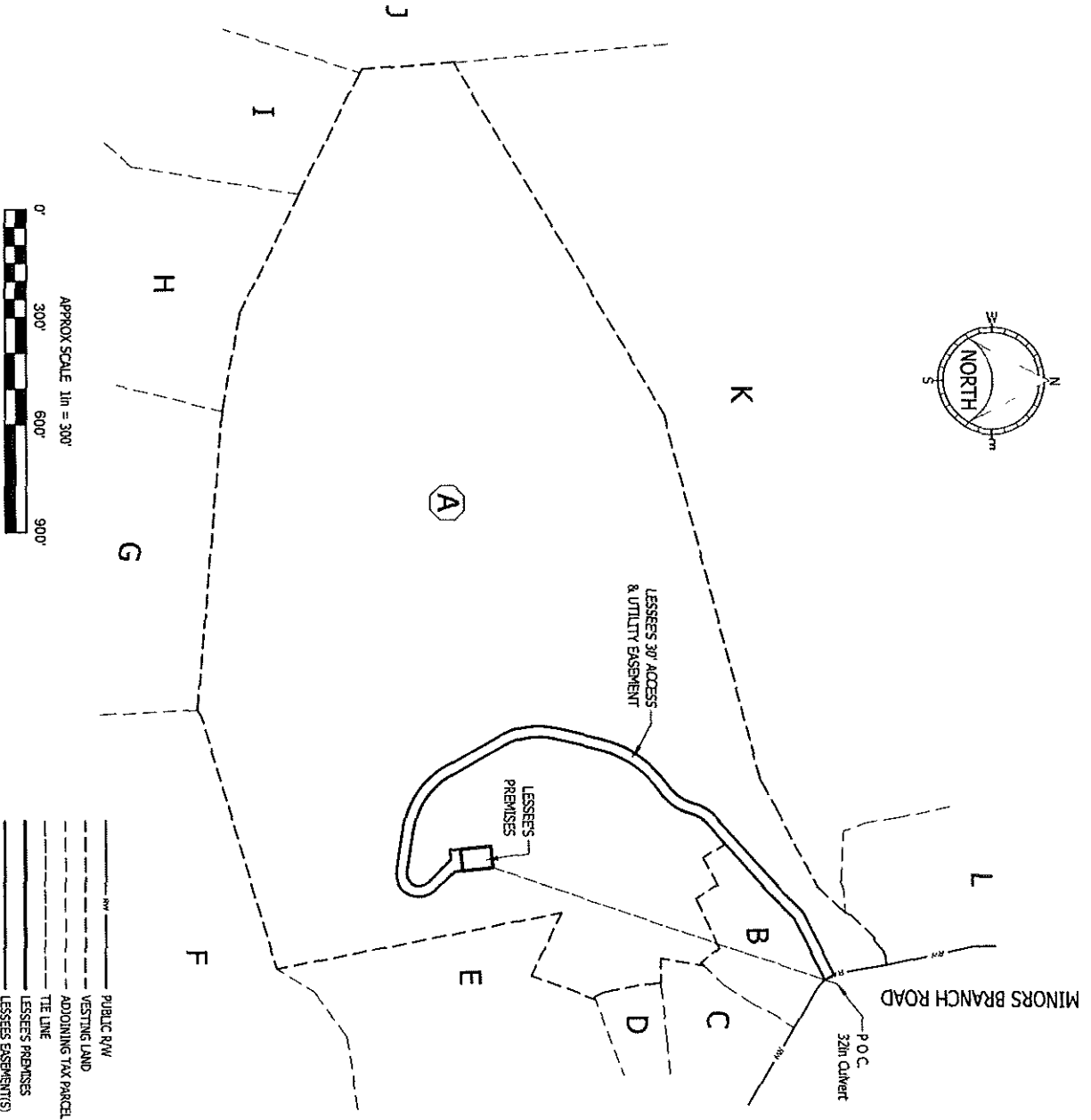
PROPERTY INFORMATION

PARENT TAX PARCEL
A. PETER PRIMIANO & ANGELA PRIMIANO
TAX PARCEL: 061-19F
DEED BOOK 274, PAGE 248,

ADJOINING TAX PARCELS

- B. STEVEN BEAUDET
TAX PARCEL: 061-19F-2
DEED BOOK 338, PAGE 299
- C. HEATHER CROWE
TAX PARCEL: 061-19C
DEED BOOK 316, PAGE 551
- D. HEATHER CROWE
TAX PARCEL: 061-19F-3
DEED BOOK 334, PAGE 500
- E. WALTER C. ARNOLD
TAX PARCEL: 061-19K
DEED BOOK 237, PAGE 420
- F. JAMES L. HAYES
TAX PARCEL: 062-02
DEED BOOK 293, PAGE 222
- G. VINGIE R. POWERS ESTATE
TAX PARCEL: 045-12
DEED BOOK 180, PAGE 633
- H. BRIAN W. POWERS
TAX PARCEL: 045-13
DEED BOOK 154, PAGE 338
- I. BRIAN WAYNE POWERS
TAX PARCEL: 045-14
DEED BOOK 140, PAGE 378
- J. BRIAN WAYNE POWERS
TAX PARCEL: 045-15
DEED BOOK 127, PAGE 059
- K. JEWELL MILLS TRUST
TAX PARCEL: 061-19L
DEED BOOK 296, PAGE 616
- L. NINA LUAYON CROWE
TAX PARCEL: 061-19I
DEED BOOK 202, PAGE 206

OVERVIEW MAP IS NOT A SURVEY BUT A VICINITY / LOCATION MAP INTENDED ONLY TO SHOW SURVEYED PROPERTY IN RELATION TO SURROUNDING AREA. VESTING AND ADJOINING PARCEL BOUNDARIES ARE NOT INCLUDED IN OR CERTIFIED BY THIS SURVEY. BOUNDARY LINES ARE A COMPOSITE OF DEED, PLAT AND/OR TAX MAP INFORMATION.



(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY LV HWY 243

Location Code: 721755

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky

VERIZON WIRELESS

PREPARED FOR
verizon

THE
LAND CONSULTANTS
LLC
5449 Highway #41
Jasper, TN 37347
(423) 304-6722



OVERVIEW MAP

DWG# 22302
ISSUE # 0
ISSUE DATE 11-03-2022
SEE SHEET # 1

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LINE DATA TABLE	
LINE	BEARING - DISTANCE
L1	S 05°18'46" E 85.00'
L2	S 89°41'14" W 60.00'
L3	S 05°18'46" W 85.00'
L4	N 89°41'14" E 60.00'
L5	S 74°22'18" W 26.20'
L6	S 26°42'12" E 30.01'
L7	S 63°17'30" W 194.27'
L8	S 48°32'26" W 94.41'
L9	S 48°32'26" W 257.61'
L10	S 13°56'18" W 133.64'
L11	S 29°29'39" E 121.62'
L12	S 80°33'27" E 121.88'
L13	N 45°36'35" W 88.98'
L14	S 89°41'14" W 26.89'
L15	N 05°18'46" W 30.00'
L16	N 89°41'14" E 60.00'
L17	S 05°18'46" E 22.66'
L18	S 45°36'35" E 73.16'
L19	N 80°33'27" W 121.88'
L20	N 29°29'39" W 121.62'
L21	N 13°56'18" E 133.64'
L22	N 48°32'26" E 256.62'
L23	N 48°32'26" E 98.28'
L24	N 63°17'30" E 198.42'

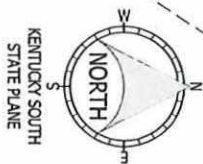
CURVE DATA TABLE			
CURVE	RADIUS	ARC LEN	TANGENT DELTA ANGLE CHORD BEARING CHORD LEN
C1	101.12	58.43	30.06 33°06'33" S 32°06'09" W 57.62'
C2	154.62	107.99	56.30 40°01'08" S 35°33'26" W 105.81'
C3	266.96	210.16	110.04 41°57'42" S 34°35'09" W 205.49'
C4	184.59	138.85	72.90 43°05'57" S 07°56'40" E 135.60'
C5	211.22	188.25	100.89 51°03'49" S 55°01'33" E 182.08'
C6	35.00	88.61	111.18 145°03'07" N 26°54'59" E 66.72'
C7	65.00	164.56	206.48 145°03'07" S 26°54'59" W 124.60'
C8	241.27	214.98	115.27 51°03'49" N 07°56'40" W 207.94'
C9	214.59	161.42	84.74 43°05'57" N 34°35'09" E 226.98'
C10	316.96	232.13	121.55 41°57'42" N 35°33'26" E 85.28'
C11	124.62	87.04	45.38 40°01'08" N 32°06'09" E 74.72'
C12	131.12	75.77	38.97 33°06'33" N 32°06'09" E 74.72'

STATE OF KENTUCKY
TRANIS L. SHIELDS
LICENSED
PROFESSIONAL
LAND SURVEYOR
4446

LESSEES 30'
ACCESS & UTILITY
EASEMENT
59,342 Sq. Ft. - 1.36± Ac

This Line forms the SE line of a 15'
"Passway" per Deed 338-259. Deed
does not explicitly declare or reserve
an Easement. Intended meaning of
"Passway" is not evaluated herein.

S 18°36'02" W 1013.52'
Chord Tie-Line - See Sheet #2



▲ SHEET #3
▼ SHEET #4 ▼

MINORS BRANCH ROAD
30' Public R/W (Ref: PB 4-106)

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY LV HWY 243

Location Code: 721755

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky

verizon
VERIZON WIRELESS

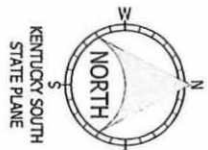
PREPARED FOR

THE
LAND CONSULTANTS
LLC
5449 Highway #41
Jasper, TN 37347
(423) 304-6722

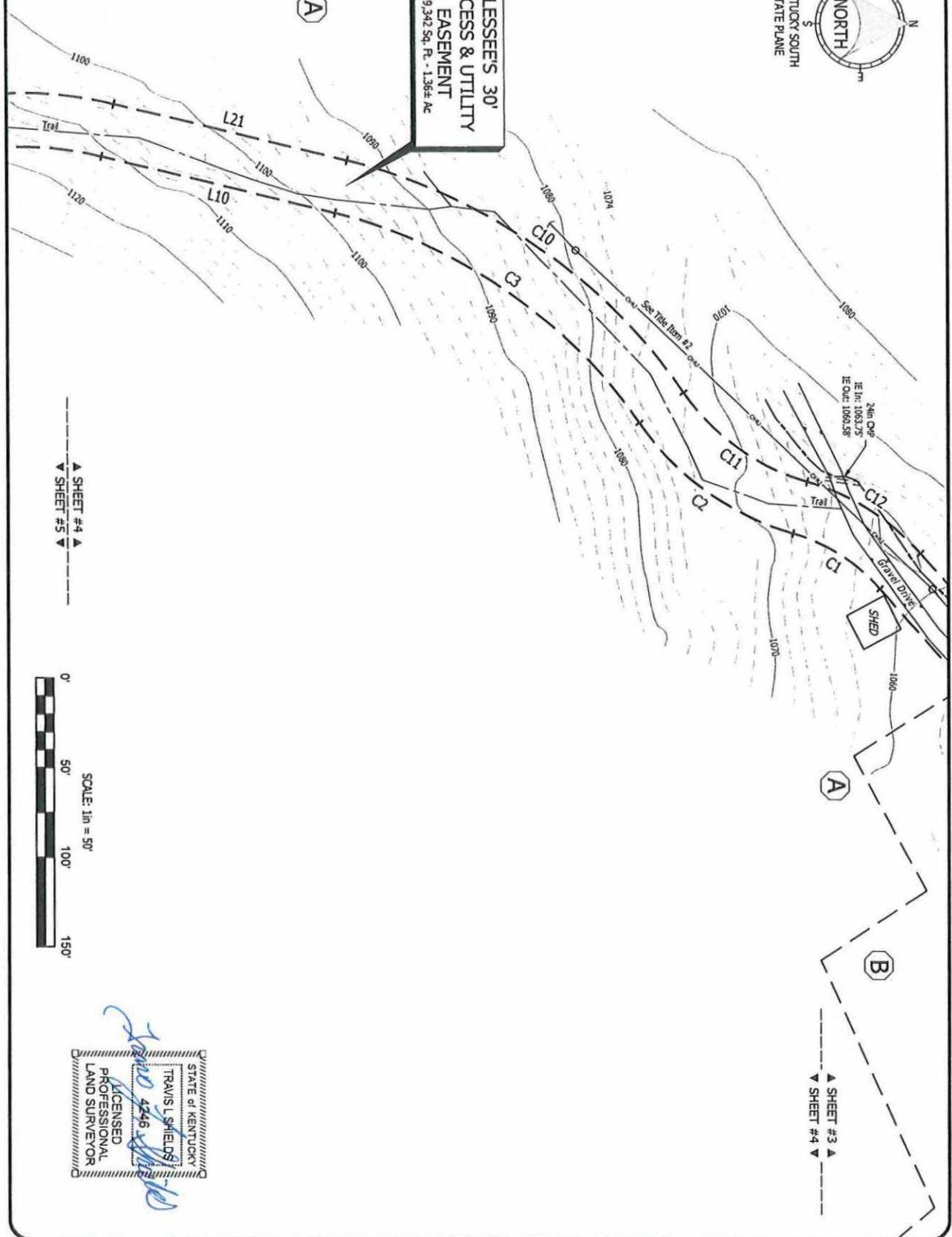
SITE SURVEY

DWG#: 22302
ISSUE #: 0
ISSUE DATE: 11-03-2022
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LESSEES 30'
ACCESS & UTILITY
EASEMENT
59,342 Sq. Ft. - 1.36± Ac



▲ SHEET #4 ▲
▼ SHEET #5 ▼



STATE OF KENTUCKY
TRAVIS L. SHIELDS
4246
LICENSED
PROFESSIONAL
LAND SURVEYOR

(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY LV HWY 243

Location Code: 721755
Minors Branch Road, Gravel Switch, KY 40328
Casey County, Kentucky

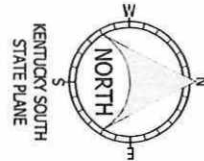


THE LAND CONSULTANTS LLC
5449 Highway #41
Jasper, TN 37347
(423) 304-6722

PREPARED FOR

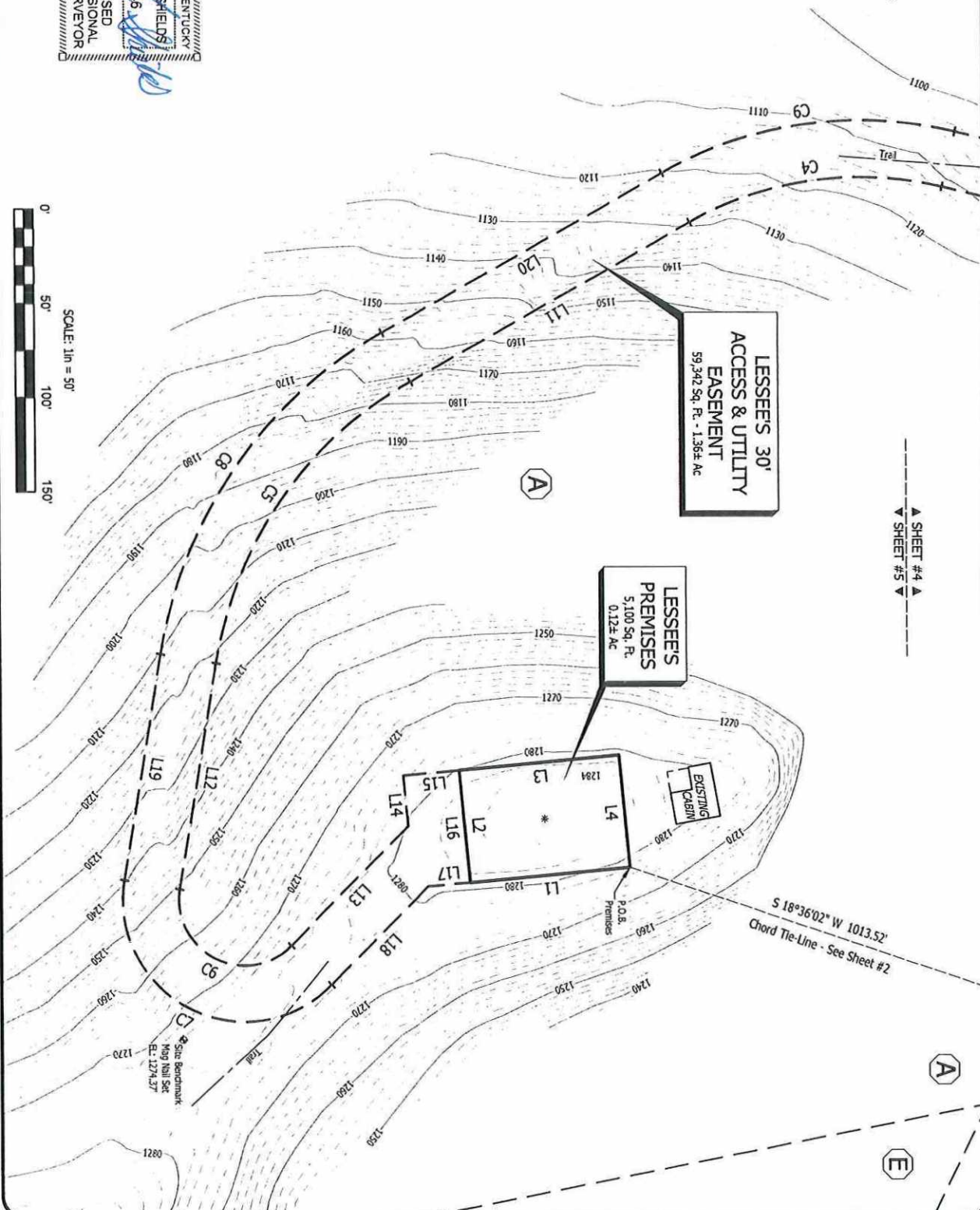
DWG#: 22392
ISSUE #: 0
ISSUE DATE: 11-03-2022
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STATE OF KENTUCKY
TRAVIS L. SHIELDS
4246
LICENSED
PROFESSIONAL
LAND SURVEYOR

SCALE: 1 in = 50'
0' 50' 100' 150'



(Not a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY LV HWY 243

Location Code: 721755

Minors Branch Road, Gravel Switch, KY 40328

Casey County, Kentucky

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5449 Highway #41
38006, TN 37347
(423) 304-6722



DWG#: 22202
ISSUE #: 0
ISSUE DATE: 11-03-2022
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SITE SURVEY

LESSEE'S PREMISES

All that Tract or Parcel of Land lying and being in Casey County, Kentucky, and being a portion of the property of Peter Primiano and Angela Primiano, of record in Deed Book 274, Page 248, Clerk's Office Casey County, Kentucky, and being more particularly described as follows:

COMMENCE at the Northern end of a thirty-two-inch Culvert located on the Northeast side of Minor Branch Road.

Thence along a Chord Tie Line having a Bearing of S 18°36'02" W, a distance of 1,013.52 feet to the POINT OF BEGINNING.

Thence S 05°18'46" E, a distance of 85.00 feet,
Thence S 84°41'14" W, a distance of 60.00 feet
Thence N 05°18'46" W, a distance of 85.00 feet,
Thence N 84°41'14" E, a distance of 60.00 feet to the POINT OF BEGINNING

Said Premises contains 0.12 Acres (5,100 Square Feet) more or less

LESSEE'S 30' ACCESS & UTILITY EASEMENT

All that Tract or Parcel of land lying and being in Casey County, Kentucky, and being a portion of the property of Peter Primiano and Angela Primiano, of record in Deed Book 274, Page 248, Clerk's Office Casey County, Kentucky, and being more particularly described as follows:

COMMENCE at the Northern end of a thirty-two-inch Culvert located on the Northeast side of Minor Branch Road.

Thence along a Chord Tie Line having a Bearing of S 74°22'18" W, a distance of 26.20 feet to a point on the Southwestern Right-of-Way Line of aforesaid Road, which is the POINT OF BEGINNING

Thence S 28°04'12" E, along said Right-of-Way Line, a distance of 30.01 feet,
Thence S 63°17'30" W, leaving said Right-of-Way Line, a distance of 194.27 feet,
Thence S 44°52'36" W, a distance of 94.41 feet
Thence S 48°39'26" W, a distance of 257.61 feet
Thence, with a curve to the left with an arc length of 58.43 feet, with a radius of 101.12 feet, with a chord bearing of S 32°06'09" W, with a chord length of 57.62 feet,
Thence, with a curve to the right with an arc length of 107.99 feet, with a radius of 154.62 feet, with a chord bearing of S 35°33'26" W, with a chord length of 105.81 feet,
Thence, with a curve to the left with an arc length of 210.16 feet, with a radius of 286.96 feet, with a chord bearing of S 34°35'09" W, with a chord length of 205.49 feet
Thence S 13°16'18" W, a distance of 133.64 feet
Thence, with a curve to the left with an arc length of 138.85 feet, with a radius of 184.59 feet, with a chord bearing of S 07°56'40" E, with a chord length of 115.60 feet
Thence S 29°29'39" E, a distance of 171.62 feet,
Thence, with a curve to the left with an arc length of 188.25 feet, with a radius of 211.22 feet, with a chord bearing of S 55°01'33" E, with a chord length of 182.08 feet,
Thence S 80°33'27" E, a distance of 121.88 feet,
Thence, with a curve to the left with an arc length of 88.61 feet, with a radius of 35.00 feet, with a chord bearing of N 26°54'59" E, with a chord length of 66.77 feet
Thence S 45°36'35" E, a distance of 88.98 feet,
Thence S 84°41'14" W, a distance of 26.89 feet,
Thence N 05°18'46" W, a distance of 30.00 feet,
Thence N 84°41'14" E, a distance of 60.00 feet,
Thence S 05°18'46" E, a distance of 22.66 feet,
Thence S 45°36'35" E, a distance of 73.16 feet
Thence, with a curve to the right with an arc length of 164.56 feet, with a radius of 65.00 feet, with a chord bearing of S 26°54'59" W, with a chord length of 124.00 feet,
Thence N 80°33'27" W, a distance of 121.88 feet
Thence, with a curve to the right with an arc length of 214.98 feet, with a radius of 241.22 feet, with a chord bearing of N 55°01'33" W, with a chord length of 207.94 feet
Thence N 29°29'39" W, a distance of 171.62 feet
Thence, with a curve to the right with an arc length of 161.42 feet, with a radius of 214.59 feet, with a chord bearing of N 07°56'40" W, with a chord length of 157.64 feet
Thence N 13°36'18" E, a distance of 133.64 feet,
Thence, with a curve to the right with an arc length of 232.13 feet, with a radius of 316.96 feet, with a chord bearing of N 34°35'09" E, with a chord length of 226.98 feet,
Thence, with a curve to the left with an arc length of 87.04 feet, with a radius of 124.62 feet, with a chord bearing of N 35°33'26" E, with a chord length of 85.28 feet,
Thence, with a curve to the right with an arc length of 75.77 feet, with a radius of 131.12 feet, with a chord bearing of N 32°06'09" E, with a chord length of 74.72 feet
Thence, with a chord bearing of N 32°06'09" E, with a distance of 256.62 feet
Thence N 48°39'26" E, a distance of 98.28 feet,
Thence N 63°17'30" E, a distance of 198.42 feet to the POINT OF BEGINNING

Said Easement contains 1.36 Acres (59,342 Square Feet), more or less



THE LAND CONSULTANTS LLC
5449 Highway #41
38806, TN 37247
(423) 304-6722

PREPARED FOR



VERIZON WIRELESS

(It's a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
LV HWY 243
Location Code: 721755
Minors Branch Road, Gravel Switch, KY 40328
Casey County, Kentucky

DESCRIPTIONS

DWG# 22302
ISSUE # 0
ISSUE DATE 11-03-2022
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TITLE EXAMINATION

Surveyor's treatment of Title Examination Items is limited to the scope described in ALTA/ANSI's 2016 requirements. Section 6 C ii and is limited to determination of the extent of land that Title Items may influence. If any Surveyor may indicate where review by Title Attorney may be warranted.)

Reference: Report of Title, issued by Fidelity National Title Insurance Company Order No. 37793441 Issue Date: September 6, 2022, Schedule B Part II

Item 1 Taxes Not addressed by Survey

Item 2 Right-of-Way Easement, Deed Book 192-529
60' Electric Easement, being 30' from the centerline of electric system Applies to Parent Parcel. Power Lines are shown within Survey Area. Deed does not provide information necessary to establish if the lines existing within the Survey area are the lines that this easement was intended to serve.

Item 3 Mortgage Deed Book 216-407 Applies to Parent Parcel. Blanket in nature and not subject to separate mapping.

LEGAL DESCRIPTION OF PARENT TAX PARCEL

Property located in Casey County, Kentucky

Parcel 1

Tract One Beginning at a beech and yew in Minor's line, thence South 55 deg. East 78 poles to a white oak thence North 55 deg. East 64 poles to a maple, thence North 130 poles to two small hickories on beech of knob thence West 112 poles to two beeches in Minor's line, thence with his line South 125 poles to the beginning There is excluded from this tract an off-conveyance to Howard Condr. Said off-conveyance, being of record in Deed Book 62, Page 352, in the office of the Clerk, of the Casey County Court.

Tract Two A certain tract or parcel of land lying in Casey County, Kentucky, on Elk Cove Branch of Harlan's branch of North Rolling Fork of Salt River and bounded as follows: Beginning at a double sugar tree, David Green's corner, thence with his line N 50 deg. 50 min. West 28-1/5 rods to a stone with Minor's line North as pointers, formerly three dogwoods, David Green's corner and Minor's corner, thence with Minor's line North 61 deg. 40 min. East 22 rods to stone corner, formerly sugar tree, supposed to be Minor's corner now Elder's, thence N 21 deg. 40 min. East 27-1/5 rods to a large beech J W. Gue's corner, thence his line S 52 deg. 50 min. East 47 rods to a stake in J L. Kang's line, thence with it South 62 deg. 10 min. West 50 rods to the beginning this corner is on top of hill.

There is excluded from Tract Two the following off-conveyance from B H Mills, single to James S. Mills and Susan Mills, his wife, by deed dated the 6th day of July 1971, and of record in Deed Book 82, Page 433 in the office of the Clerk of the Casey County Court: Beginning at a small black oak and running North 3 deg. West 24 3/6 poles to a stone, on the North side of the creek, thence up the creek South 24 deg. East 17 poles to an ash on the South side of the road, thence South 18 deg. West 13 40 poles to the point of beginning, and containing 1-2/10 acres more or less, according to the survey of Lewis J. Cochran, Reg. #1038, dated June 5, 1971.

Parcel 2

Tract No. 1

Beginning at a stone, papaw and sassafras on the knob in A. J. Shearn's line, thence with his line N 12 W 54 poles to a beech and dogwood, thence S 8 W 54-1/2 poles to a white oak stump, thence S 11-1/2 E 30-1/2 poles to a hickory on the top of the knob in G. L. Minor's line, thence with top of knob S 82-1/2 E 38 poles to a black oak and chestnut, thence W 37 E 8-5/5 poles to the beginning, containing 17 acres, the boundary taken for more or less.

Tract No. 2

Beginning at a white oak on Harlins Branch, corner to M. A. Carter, thence S 2 E 68 poles to a hickory corner to same, thence with G. L. Minors to a double poplar, thence E 86 poles to a beech, corner to James King, thence S 10 W 32 poles to a beech and hickory corner to same, thence N 74 W 26 poles to the beginning, the boundary taken for 20 acres more or less.

Tract No. 3

Beginning at a hickory and sugar tree on a ridge, N 33 W 114 poles to a double poplar, thence S with West side of ridge 84 poles to four small chestnuts on point of knob, thence East course a straight line to the beginning.

Tract No. 4

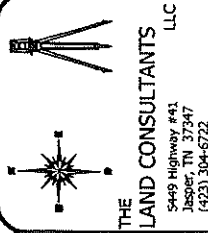
Beginning at a beech, thence S 10 W 34 poles to a hickory, thence S 54 E 13 poles to a stone, thence N 10 E 40-1/2 (sic) poles to the beginning, containing 3 acres more or less.

There is excluded from the above the parcels or properties described in the following deeds:

- (1) 912 acres conveyed to Jay T. Crowe, in Deed Book 181, Page 760, in the Casey County Clerk's office,
- (2) 1 598 acres conveyed to Steve Weaver and Kay Weaver in Deed Book 168, Page 634, in the aforesaid Clerk's office,
- (3) 2 302 acres conveyed to Tracy Mills in Deed Book 167, Page 192, in the aforesaid Clerk's office,
- (4) 2 261 acres conveyed in Deed Book 165, Page 413, in the aforesaid Clerk's office,
- (5) 13 09 acres conveyed to Glen Bailes in Deed Book 120, Page 457, in the aforesaid Clerk's office,
- (6) 2 12 acres conveyed to Jay Thomas Crowe in Deed Book 119, Page 185, in the aforesaid Clerk's office,
- (7) 65 acres conveyed in Deed Book 126, Page 635, in the aforesaid Clerk's office.

AND BEING the same property conveyed to Peter Primiano and Angela Primiano from Jerald C. Shepherd and Mary M. Shepherd by Deed dated April 27, 2011, and recorded May 6, 2011, in Deed Book 274, Page 248.

Tax Parcel No. 061-191



THE
LAND CONSULTANTS
LLC
5449 Highway #41,
Jasper, TN 37347
(423) 304-6722

PREPARED FOR



VERIZON WIRELESS

(This is a Boundary Survey of Parent Lands. Not intended for fee simple Land Transfer)

SITE SURVEY
LV HWY 243
Location Code: 721755
Minors Branch Road, Gravel Switch, KY 40328
Casey County, Kentucky

DESCRIPTIONS

DWG# 22302
ISSUE # 0
ISSUE DATE 11-02-2022
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Notice List

Parcel Number 061-19F

PRIMIANO PETER & ANGELA
3180 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search

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

Summary

Parcel Number: 061-19F
Account Number: 30293
Location Address: MINORS BRANCH RD 3180
Description: ALSO 3176 MINORS BRANCH RD
(Note: Not to be used on legal documents)
Class: Farm
Tax District: 00-00
Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner:
PRIMIANO PETER & ANGELA
3180 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
10/24/2013	\$5,500	2.300	Expansion Sale	290-841

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brett Johnson
606-787-7621

Announcements

[How to use the Report site - view Demo Videos](#)

Parcel Number 061-19L

CROWE & POE
NINA LUAVON & SHARON GAY
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search

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

Summary

Parcel Number: 061-19L
Account Number: 35141
Location Address: MINORS BRANCH RD
Description: MINORS 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:
CROWE & POE
NINA LUAVON & SHARON GAY
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
3/25/2014	\$0	60.000	Other	296-416
11/1/1964	\$0			069-429

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brett Johnson
606-787-7621

Announcements

[How to use the Report site - view Demo Videos](#)

Parcel Number 061-191

CROWE NINA LUAVON
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams

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

Summary

Parcel Number: 061-191
Account Number: 25421
Location Address: MINORS BRANCH RD 3020
Description: 2000 MOBILE HOME
Note: Not to be used on legal documents
Class: Farm
Tax District: 00.00
Rate Per Thousand: 9.7600

[View Map](#)



Owner

Primary Owner:
CROWE NINA LUAVON
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book Page
10/3/2000	\$5,900			202-206

Information

Casey County, KY
123 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

[How to use the Reason site - view](#)
[Demo Videos](#)

Parcel Number 061-19N

BRIEL KRISTA MILNER & JAMES HOWARD
3845 MINOR BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams

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

Summary

Parcel Number: 061-19N
Account Number: 43625
Location Address: MINORS BRANCH RD
Description: MINORS BR
Note: Not to be used on legal documents
Class: Farm
Tax District: 00.00
Rate Per Thousand: 9.7600

[View Map](#)



Owner

Primary Owner:
BRIEL KRISTA MILNER & JAMES HOWARD
3845 MINOR BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book Page
2/9/2024	\$250,000	06.110	Annual Twice-Sold	351-006
12/4/2023	\$217,750	06.110	Annual Twice-Sold	351-029

Information

Casey County, KY
123 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

[How to use the Reason site - view](#)
[Demo Videos](#)

Parcel Number 061-19M
CROWE HEATHER
2987 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search

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

Summary

Parcel Number: 061-19M
Account Number: 35354
Location Address: MINORS BRANCH RD 2987
Description: SEE DD 236 P PLAT TRACT C
(Note: Not to be used on legal documents)
Class: Residential
Tax District: 00 00
Rate Per Thousand: 9.7600

[View Map](#)

Owner

Primary Owner:
CROWE HEATHER
2987 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book Page
6/1/2015	\$500	2.335	Close Relative Sale	298-491
6/16/2017	\$0	2.335	Close Relative Sale	298-491

Columns

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

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Parcel Number 061-19F-2
BEAUDET STEVEN & ELIZABETH
3176 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search

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

Summary

Parcel Number: 061-19F-2
Account Number: 40430
Location Address: MINORS BRANCH 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:
BEAUDET STEVEN & ELIZABETH
3176 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book Page
2/16/2022	\$0	2.302	Partial Sale	338-299

Columns

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

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Parcel Number 061-19C
CROWE HEATHER
2987 MINORS BRANCH
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams

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

Summary

Parcel Number 061-19C
Account Number 37597
Location Address MINORS BRANCH RD
Description MINORS BR 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
CROWE HEATHER
2987 MINORS BRANCH
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
5/28/2018	\$12,000	2.770	Arms-Length Transaction	316-551

[Columns](#)

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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Parcel Number 061-19F-3
CROWE HEATHER
2987 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams

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

Summary

Parcel Number 061-19F-3
Account Number 39629
Location Address 0
Description MINORS BR 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
CROWE HEATHER
2987 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
7/27/2021	\$0	0.912	Close Relative Sale	334-500

[Columns](#)

Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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Parcel Number 045-15
POWERS BRIAN WAYNE
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

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

Summary

Parcel Number 045-15
Account Number 30228
Location Address LITTLE SOUTH RD 2920 HWY 243
Description (Note: Not to be used on legal documents)
Class Farm
Tax District 00.00
Rate Per Thousand 9.7600

[View Map](#)



Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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Owner

Primary Owner
[POWERS BRIAN WAYNE](#)
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
8/1/1994	\$0			127-059

Parcel Number 045-14
POWERS BRIAN WAYNE
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

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

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

Summary

Parcel Number 045-14
Account Number 30228
Location Address LITTLE SOUTH RD
Description HWY 243
(Note: Not to be used on legal documents)
Class Farm
Tax District 00.00
Rate Per Thousand 9.7600

[View Map](#)



Information

Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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Owner

Primary Owner
[POWERS BRIAN WAYNE](#)
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
4/1/1988	\$0			140-378

Recent Sales In Area

Sale date range:
From: 07/15/2022 To: 07/15/2025

Parcel Number 045-13
POWERS BRIAN WAYNE
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search search_

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

Summary

Parcel Number 045-13
Account Number 30229
Location Address 0
Description LITTLE SOUTH
(Note: Not to be used on legal documents)
Class Farm
Tax District 00.00
Rate Per Thousand 9.7600

[View Map](#)

Owner

Primary Owner
POWERS BRIAN W & N JOLENE
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
10/1/1991	\$28,000			154-338

Information



Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

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Parcel Number 045-12
POWERS VINGIE R ESTATE
C/O NANCY A PORTER
2482 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

qPublic.net Casey County, KY PVA Elizabeth Williams Search search_

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

Summary

Parcel Number 045-12
Account Number 30234
Location Address LITTLE SOUTH RD 2482
Description HWY 243
(Note: Not to be used on legal documents)
Class Farm
Tax District 00.00
Rate Per Thousand 9.7600

[View Map](#)

Owner

Primary Owner
POWERS VINGIE R ESTATE
C/O NANCY A PORTER
2482 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

Land Characteristics

Valuation

Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
4/1/1997	\$0		Close Relative Sale	180-633

Information





Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
Brad Johnson
606-787-7621

Announcements

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Parcel Number 061-19K
ARNOLD WALTER C & PATRICIA
898 COUNT FLEET CR
DANVILLE, KY 40422

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

Summary

Parcel Number	061-19K
Account Number	24952
Location Address	MINORS BRANCH 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
ARNOLD WALTER C & PATRICIA
898 COUNT FLEET CR
DANVILLE, KY 40422

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page
10/1/2005	\$23,200			237-420

Information



Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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Parcel Number 062-02
HAYES JAMES L
5900 MAXEY VALLEY RD
HUSTONVILLE, KY 40437

qPublic.net™ Casey County, KY PVA Elizabeth Williams

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

Summary

Parcel Number	062-02
Account Number	34831
Location Address	MAXEY VALLEY 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
[HAYES JAMES L](#)
5900 MAXEY VALLEY RD
HUSTONVILLE, KY 40437

Land Characteristics

Valuation

Taxes

Sale Information

Sale Date	Sale Price	Sale Acres	Sale Type	Book-Page	Grantee	Grantor
5/27/2014	\$65,000	62.250	Partial Sale	293-222	HAYES JAMES L	MORRIS SALLY
7/1/2008	\$107,060		Arms-Length Transaction	258-033	MORRIS SALLY E	CINNAMOND EDWIN T

Information



Casey County, KY
133 Courthouse Square
Liberty, KY 42539

Property Valuation
Administrator
[Brad Johnson](#)
606-787-7621

Announcements

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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 18, 2025

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: HWY 243**

Cellco Partnership, d/b/a Verizon Wireless is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 3178 Minors Branch Road, Gravel Switch, KY 40328. (North Latitude: (37° 30' 33.53, West Longitude 84° 57' 23.05"). The proposed facility will include a 255-foot tall antenna tower, plus an 8-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. (Please note this is the same site you would have received notice on in October 2023 as case number 2023-00308.)

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 2025-00245 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

Vicinity Map

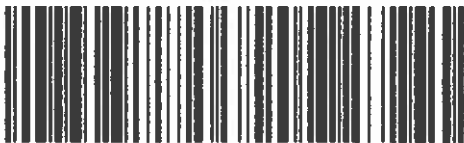


Site Location on Aerial



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ark, Quinn, Moses, Scott & Grahn, LLP

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9589 0710 5270 1687 9042 68

PRIMIANO PETER & ANGELA
3180 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

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ZIP 46204 \$ 010.44⁰
02 7H
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OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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CROWE & POE
NINA LUAVON & SHARON GAY
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

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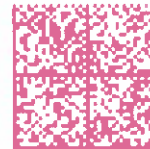
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GRAVEL SWITCH, KY 40328

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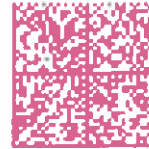
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BRIEL KRISTA MILNER
& JAMES HOWARD
3845 MINOR BRANCH RD
GRAVEL SWITCH, KY 40328

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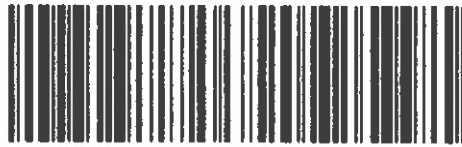


ZIP 46204 \$ 010.44⁰
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GRAVEL SWITCH, KY 40328

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BEAUDET STEVEN & ELIZABETH
3176 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328

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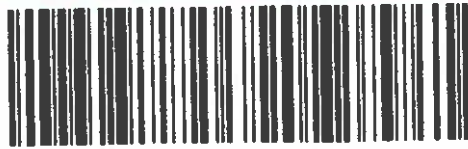
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ZIP 46204 \$ 010.44⁰
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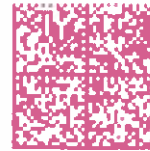
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GRAVEL SWITCH, KY 40328

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\$ 010.44⁰
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POWERS VINGIE R ESTATE
C/O NANCY A PORTER
2482 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328

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ZIP 46204
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\$ 010.44⁰
JUL 18 2025

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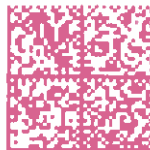
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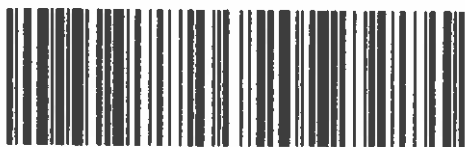
ZIP 46204 \$ 010.44⁰
02 7H
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ARNOLD WALTER C & PATRICIA
898 COUNT FLEET CR
DANVILLE, KY 40422

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9589 0710 5270 1687 9041 21



US POSTAGE® PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 JUL 18 2025

HAYES JAMES L
5900 MAXEY VALLEY RD
HUSTONVILLE, KY 40437

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:

POWERS BRIAN WAYNE
2920 LITTLE SOUTH RD
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 12

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9040 91

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brian Powers* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

BRYAN POWERS 7-21-25

C. Date of Delivery

D. Is delivery address different from item 1?

If YES, enter delivery address below: ☐ Yes ☐ 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

Mail Restricted Delivery (0)

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:

CROWE NINA LUAVON
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 67

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9040 46

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Nina Crowe* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

NINA CROWE 7-21-25

C. Date of Delivery

D. Is delivery address different from item 1?

If YES, enter delivery address below: ☐ Yes ☐ 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

Mail Restricted Delivery (500)

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:

CROWE HEATHER
2987 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 43

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9040 60

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Heather Crowe* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

HEATHER CROWE 7-21-25

C. Date of Delivery

D. Is delivery address different from item 1?

If YES, enter delivery address below: ☐ Yes ☐ 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

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:

CROWE & POE
NINA LUAVON & SHARON GAY
3020 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 74

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9040 39

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Tommy Crowe

☐ Agent☐ Addressee

B. Received by (Printed Name)

Tommy Crowe

C. Date of Delivery

2-25-20

- 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☐ Mail Restricted Delivery (500)

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.
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1. Article Addressed to:

CROWE HEATHER
2987 MINORS BRANCH
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 29

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9040 84

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Heather Crowe

☐ Agent☐ Addressee

B. Received by (Printed Name)

HEATHER CROWE

C. Date of Delivery

7-21-25

- 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☐ Mail Restricted Delivery (500)

Domestic Return Receipt

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- 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:

HAYES JAMES L
5900 MAXEY VALLEY RD
HUSTONVILLE, KY 40437



9590 9402 9112 4225 8437 82

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X James Hayes

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation®☐ Signature Confirmation Restricted Delivery☐ Mail 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:

ARNOLD WALTER C & PATRICIA
898TH COUNT FLEET CR
DANVILLE, KY 40422



9590 9402 9112 4225 8437 99

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9041 14

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

7/23

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- | | |
|--|---|
| ☐ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☐ Certified Mail® | ☐ Registered Mail Restrict |
| ☐ Certified Mail Restricted Delivery | ☐ Delivery |
| ☐ Collect on Delivery | ☐ Signature Confirmation¹ |
| ☐ Collect on Delivery Restricted Delivery | ☐ Signature Confirmation |
| ☐ Insured Mail | ☐ Restricted Delivery |

Mail 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:

PRIMIANO PETER & ANGELA
3180 MINORS BRANCH RD
GRAVEL SWITCH, KY 40328



9590 9402 9112 4225 8438 81

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9042 68

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

- ☒ Agent
☐ Addressee

B. Received by (Printed Name)

ANGELA PRIMIANO

C. Date of Delivery

7-30-25

- 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
☐ Registered Mail
☐ Registered Mail Restricted Delivery
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

Mail
Restricted Delivery
(00)

Domestic Return Receipt

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



9589 0710 5270 1687 9041 07

18 JUL 2025 PM 5:11

FIRST-CLASS



US POSTAGE IMPITNEY BOWES

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JUL 18 2025

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2-21-25

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C/O NANCY A PORTER
2482 LITTL
GRAVEL SV

NIXIE 402 CE 1 0207/27/25

RETURN TO SENDER
INSUFFICIENT ADDRESS
UNABLE TO FORWARD

MANUAL PROC REQ *2112-01522-18-38

IA
5699879999
40328-932282

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

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OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

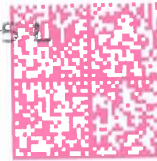
CERTIFIED MAIL®



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18 JUL 2025 PM 5:11

FIRST-CLASS



US POSTAGE IMPITNEY BOWES

ZIP 46204
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JUL 18 2025

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3176 MINORS BRANCH RD
GRAVEL SWI

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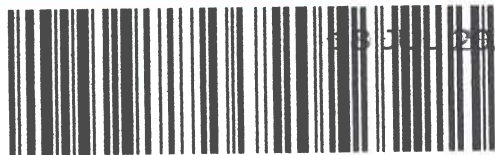
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NO SUCH NUMBER
UNABLE TO FORWARD

MANUAL PROC REQ *2112-01580-18-38

IA
5699879999
40328-932111

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®



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INDIANAPOLIS IN 460

13 JUL 2025 PM 7 L

FIRST-CLASS



US POSTAGE IMPI PITNEY BOWES



ZIP 46204
02 7H
0006035028 **\$ 010.440**
JUL 18 2025

NSN
7-21-25

BRIEL KRISTA MILNER
& JAMES HOWARD
3845 MINOR BRANCH RD
GRAVEL SWITCH, KY 40328

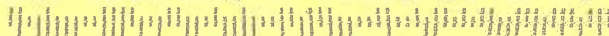
NIXIE 402 CE 1 0207/27/25

RETURN TO SENDER
NO SUCH NUMBER
UNABLE TO FORWARD

40328 6998

MANUAL PROC REQ *1612-0142W-1B-WB

99





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 18, 2025

Via Certified Mail, Return Receipt Requested
9589 0710 5270 1687 9044 28

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. 2025-00245
Site Name: HWY 243

Dear Judge Dial:

Cellco Partnership, d/b/a Verizon Wireless is filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 3178 Minors Branch Road, Gravel Switch, KY 40328. (North Latitude: (37° 30' 33.53, West Longitude 84° 57' 23.05"). The proposed facility will include a 255-foot tall antenna tower, plus an 8-foot lightning arrester and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. (Please note this is the same site you would have received notice on in October 2023 as case number 2023-00308.)

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 2025-00245 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 of Russell L. Brown in black ink.

Attorney for Applicant

RLB/mnw
Enclosure

Vicinity Map



Site Location on Aerial



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

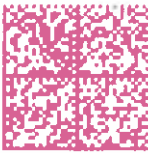
CERTIFIED MAIL®



9589 0710 5270 1687 9044 28

Hon. Randy Dial
Casey County Judge Executive
PO Box 306
625 Campbellsville Street
Liberty, KY 42539

FIRST-CLASS



US POSTAGESM PITNEY BOWES

ZIP 46204 02 7H \$ 010.44⁰
0006035028 JUL 18 2025

SENDER: COMPLETE THIS SECTION

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- 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 9112 4225 8435 91

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9044 28

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

Kathy Carman

C. Date of Delivery

7-21

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

Mail Restricted Delivery
(00)

Domestic Return Receipt

SITE NAME: HWY 243 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 The Towers, LLC (Vertical Bridge) proposes 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 2025-00245 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (Vertical Bridge) proposes 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 2025-00245 in your correspondence.



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Russell L. Brown**†
Travis W. Cohron
Michael P. Maxwell
Keith L. Beall
John M. Mead
Jennifer F. Perry
Clark P. Kirkman
Kristin A. McKinney
Olivia A. Hess

VIA EMAIL: legals@caseynews.net

The Casey County News
720 Campbellsville Street
Liberty, KY 42539

Land Use Consultants
Elizabeth Bentz Williams, AICP
Joseph M. Csikos, AICP

RE: Legal Notice Advertisement
Site Name: HWY 243

*Also admitted in Montana
†Also admitted in Kentucky
**Registered Civil Mediator

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 The Towers, LLC (Vertical Bridge) are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility located at 3178 Minors Branch Road, Gravel Switch, KY 40328. (North Latitude: (37° 30' 33.53, West Longitude 84° 57' 23.05"). The proposed facility will include a 255-foot tall antenna tower, plus an 8-foot lightning arrestor and related ground facilities. Site name is HWY 243. 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 2025-00245 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,

Elizabeth Bentz Williams, AICP

Radio Frequency Design Search Area

[SARF - LV Hwy 243]

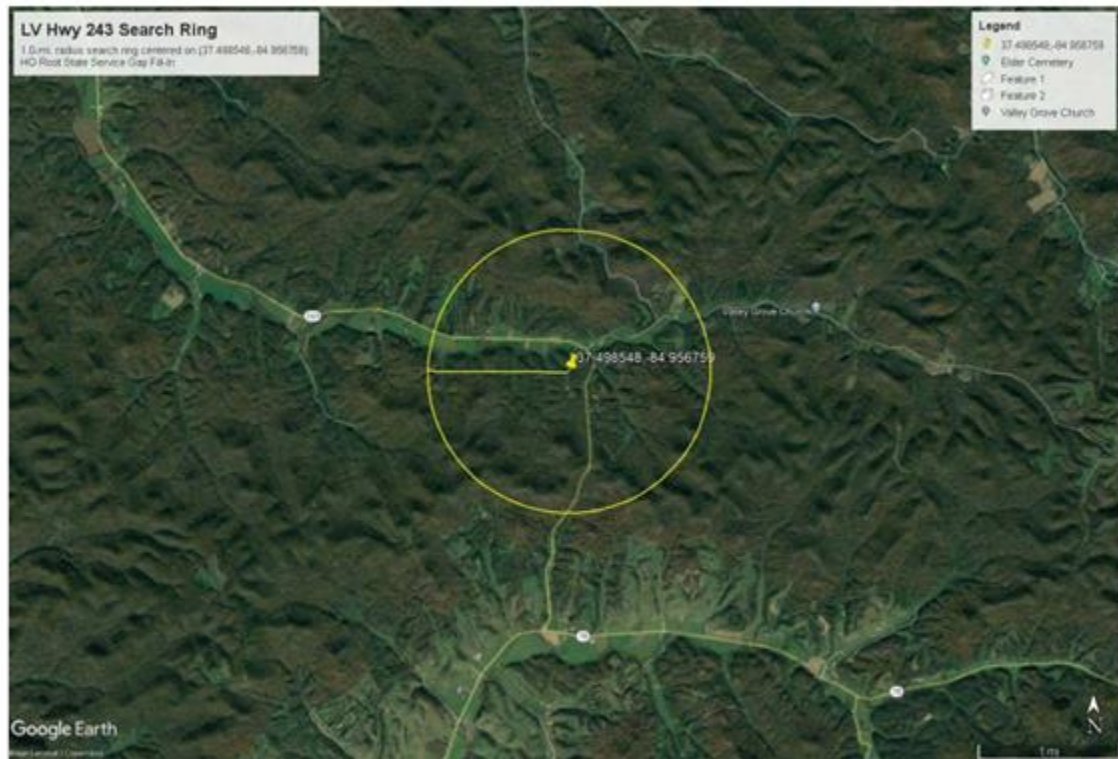


Figure 1: Search ring



August 22, 2025

Re: Radiofrequency Justification for Proposed Wireless Communications Facility for Cellco Partnership d/b/a Verizon Wireless ("Verizon")

Tower Developer and Owner: Vertical Bridge

Facility Site Name: LV HWY 243

Type of Tower: Self-Support

Tower Height: 255 feet

Location: 3178 Minors Branch, Gravel Switch, KY 40328

To Whom It May Concern:

As a radio frequency engineer for Verizon am providing this letter to state the need for a proposed Verizon wireless communications site called "LV Hwy 243."

The LV HWY 243 site is proposed to meet the following objectives:

1. To improve service along HWY 243.
2. To offload excess traffic from existing Verizon sites in this area that are operating at or near capacity.

Currently Verizon customers are experiencing poor service along HWY 243 and the immediately surrounding area ("Gap Area") because there is a high demand for wireless service and high-speed data there and Verizon's network cannot keep up with that demand. Simply put, Verizon's existing communications sites in and around the Gap Area are over capacity and therefore they cannot sufficiently handle the traffic. The new proposed tower is needed to offload this excess traffic so that Verizon can provide critical service improvements to its customers in the area, including first responders, residents, and businesses.

When Verizon identifies the need for a new site in an area, its design engineers establish search area criteria in order to effectively meet specific coverage objectives as well as offload existing Verizon cell sites that can no longer meet service demands. These criteria are used to identify a "Search Area" in which the new tower would need to be located to meet the coverage and capacity objectives. The proposed tower is also designed to provide a single solution that decreases the chances that a second tower will be needed in the immediate area in the near future. Each wireless communications 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 service throughout the coverage area.

Verizon cares about the communities it serves and prefers to collocate on existing structures when feasible. Collocation typically involves lower construction costs, faster deployment, and environment protection. For these reasons, Verizon 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 or raise a system capacity overload concern.

Here, Verizon is currently collocated on several existing towers in the areas surrounding the Search Area. However, there are no existing structures within the Search Area on which Verizon could collocate to meet its coverage and capacity objectives in the Gap Area. For this reason, Verizon worked with Vertical Bridge to identify a site in the Search Area on which a new tower could be built that would meet the stated objectives.

The proposed new tower, located at 3178 Minors Branch, Gravel Switch, KY, will be built near the center of the Search Area. Both the proposed location and height of the tower are designed to meet the stated objectives with a single tower. Specifically, the tower will have an overall tower height of 255' with Verizon's equipment installed at a centerline of 250'. This centerline is the minimum height necessary to allow Verizon to be able to adequately cover HWY 243 and to offload traffic from the nearby existing Verizon sites that are currently overloaded. If Verizon is limited to installing its equipment at a centerline that is lower than the proposed height, another tower would be needed in the vicinity in the near future in order to provide the additional coverage and capacity offload that is needed in the Gap Area.

If Vertical Bridge is unable to build the proposed site and therefore Verizon is unable to collocate its equipment on it at a centerline of 250', Verizon will be prohibited from serving its customers in the Gap Area.

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.

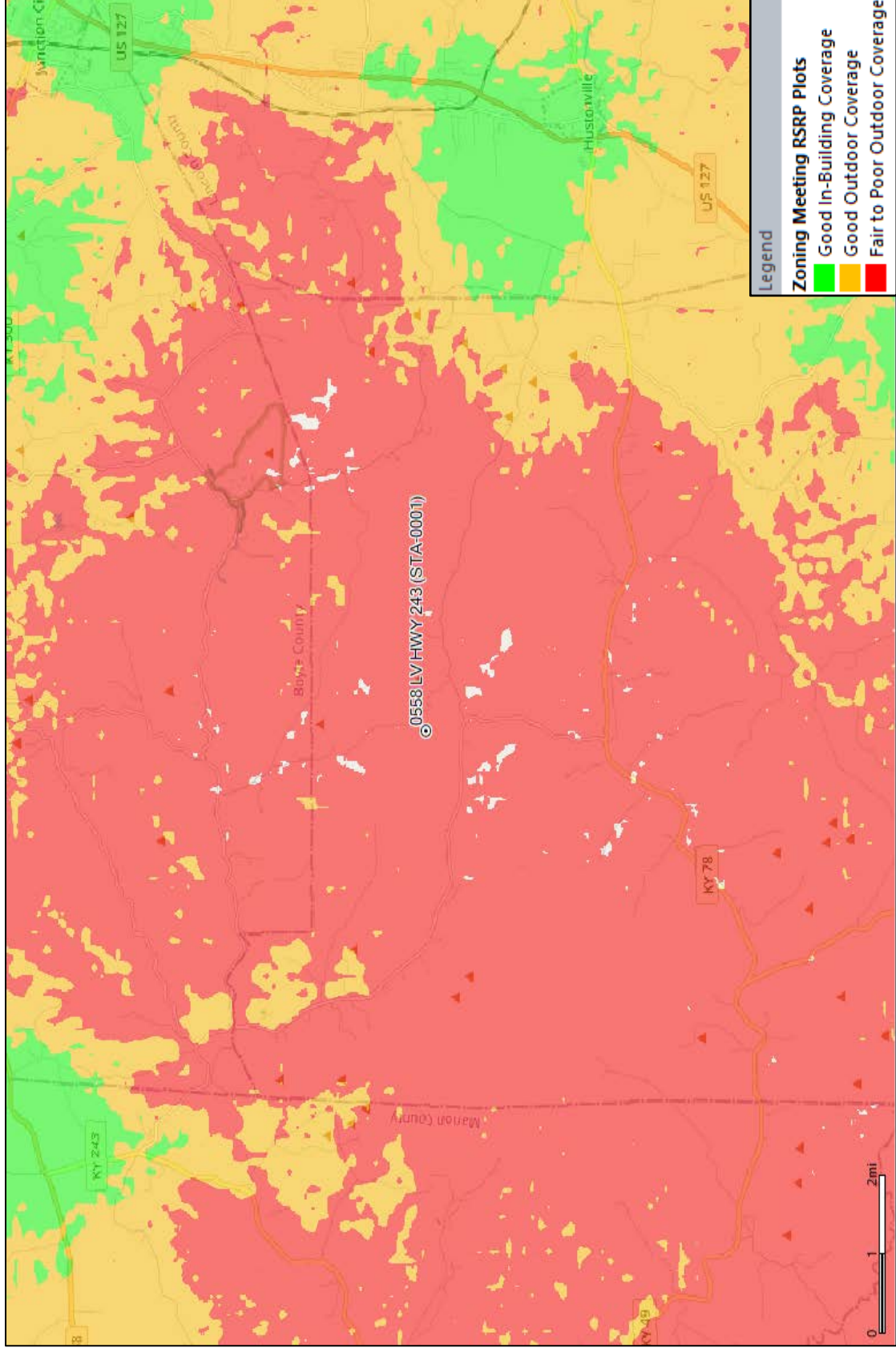
Sincerely,

A handwritten signature in black ink, appearing to read 'S. Belcher', with a stylized flourish at the end.

Steven Belcher
Sr. RF Engineer
Verizon Wireless



Coverage - Without proposed site LV HWY 243



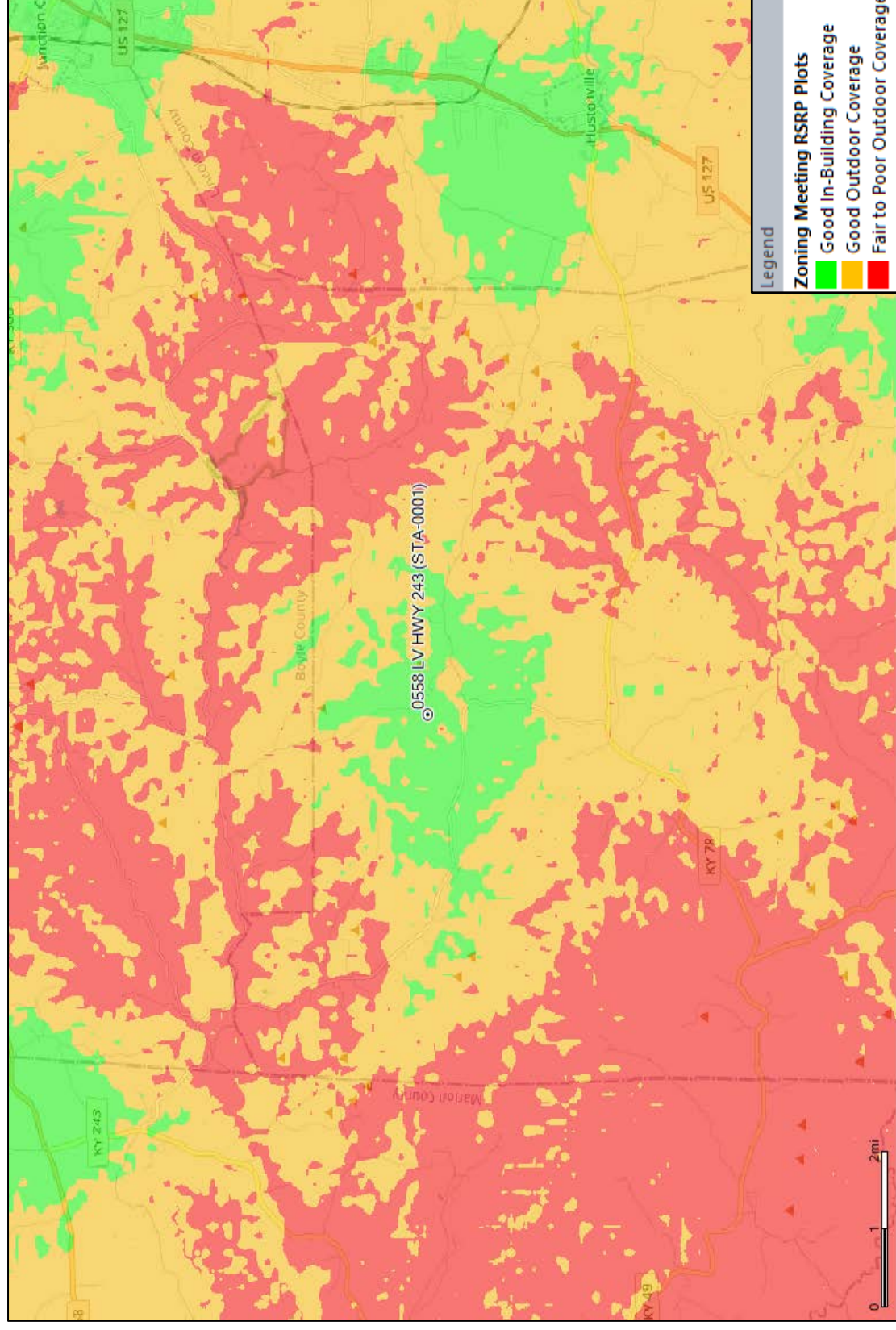
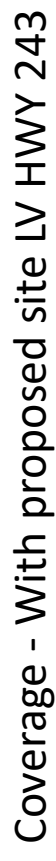


Exhibit S
List of Qualified Professionals

Travis L. Shields
Professional Land Surveyor
Kentucky License 4246
The Land Consultants
5449 Highway #41
Jasper, TN 37347

Stephen E. Hunt
Professional Engineer
Kentucky License 25003
Telecad Wireless
1961 Northpoint Blvd., Suite 130
Hixson, TN 37343

Keith J. Tindall
Professional Engineer
Kentucky License 20897
Sabre Industries
7101 Southbridge Dr.
P. O. Box 658
Sioux City, IA 51102-0658

Joseph V. Borrelli
Professional Engineer
Kentucky License 30809
Delta Oaks Group
4904 Professional Court, Second Floor
Raleigh, NC 27609

Josh Sizemore
Construction Manager
The Towers, LLC
750 Park of
Commerce Dr. #200
Boca Raton, FL
33487

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

**AFFIDAVIT OF CERTIFICATION
COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION**

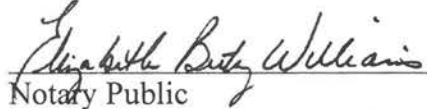
I Russell L. Brown, attorney for Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC hereby certify that as the person supervising the preparation of this application and all statements and information contained herein are true and accurate to the best of that person's knowledge, information, and belief formed after a reasonable inquiry for all information within this application.



Russell L. Brown
Attorney, for Cellco Partnership, d/b/a Verizon Wireless
And The Towers, LLC

STATE OF INDIANA,
COUNTY OF MARION, SS:

Subscribed and sworn to before me this 25th day of August, 2025.



Notary Public

Printed Name of Notary: Elizabeth Bentz Williams
My commission expires: November 18, 2028
My County of Residence: Marion
Commission #: 0639620

