

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

In the Matter of:

THE APPLICATION OF)
NEW CINGULAR WIRELESS PCS, LLC,)
A DELAWARE LIMITED LIABILITY COMPANY,)
D/B/A AT&T MOBILITY)
AND TILLMAN INFRASTRUCTURE LLC, A DELAWARE)
LIMITED LIABILITY COMPANY)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO.: 2021-00416
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF GRAVES)

SITE NAME: SEDALIA

* * * * *

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company (“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 Applicants with wireless communications services.

In support of this Application, Applicants respectfully provide and state the following

information:

1. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having an address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, Kentucky 40202 and Tillman Infrastructure LLC, a Delaware limited liability company having an address of 152 W 57th Street, New York, NY 10019.

2. 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 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.

3. AT&T Mobility is a limited liability company organized in the State of Delaware on October 20, 1994. Tillman Infrastructure is a limited liability company organized in the State of Delaware on June 13, 2016.

4. Applicants attest that they are in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky.

5. The Certificates of Authority filed with the Kentucky Secretary of State for both Applicants are attached as part of **Exhibit A** pursuant to 807 KAR 5:001: Section 14(3).

6. AT&T Mobility operates on frequencies licensed by the Federal Communications Commission (“FCC”) pursuant to applicable FCC requirements. Copies of AT&T Mobility’s FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

7. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve AT&T Mobility's services to an area currently not served or not adequately served by AT&T Mobility by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in AT&T Mobility's communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in AT&T Mobility's network design that must be in place to provide adequate coverage to the service area.

8. To address the above-described service needs, Applicants propose to construct a WCF at 230 State Route 381, Sedalia, KY 42079 (36° 38' 16.29" North latitude, 88° 36' 09.62" West longitude), 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 the Greg and Martha Boyd Trust (co-trustees: Gregory N. Boyd and Martha L. Boyd) pursuant to a deed recorded at Deed Book 516, Page 1 in the office of the County Clerk. The proposed WCF will consist of a 250-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 260-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of AT&T Mobility's radio electronics equipment and appurtenant equipment. The Applicants' 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 B** and

Exhibit C.

9. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

10. 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 AT&T Mobility's antennas has also been included as part of **Exhibit B**.

11. 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 C**.

12. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have 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 AT&T Mobility's antennas on an existing structure. When suitable towers or structures exist, AT&T Mobility attempts to co-locate on existing structures such as communications towers or other structures capable of supporting AT&T Mobility's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

13. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.

14. A copy of the approval issued by the Kentucky Airport Zoning Commission ("KAZC") is attached as **Exhibit F**.

15. A geotechnical engineering firm has performed soil boring(s) and subsequent

geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

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

17. Tillman Infrastructure, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreements or abbreviated agreements recorded with the County Clerk are attached as **Exhibit I**.

18. 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 C** 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.

19. The Construction Manager for the proposed facility is John Lounsbury and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

20. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.

21. **Exhibit B** includes a map drawn to an appropriate scale that shows the

location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). 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 is illustrated in **Exhibit B**.

22. Applicants have notified 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 has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.

23. Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit L**.

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 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 M. 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 part of **Exhibit M.**

25. The general area where the proposed facility is to be located is rural in character. The area where the proposed tower will be located is vacant and heavily wooded along the property line.

26. The process that was used by AT&T Mobility'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. AT&T Mobility'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 Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by AT&T Mobility. 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 N.**

27. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.

28. All Exhibits to this Application are hereby incorporated by reference as if fully

set out as part of the Application.

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

David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpik@pikelegal.com

WHEREFORE, 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,



David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
Attorney for Applicants

LIST OF EXHIBITS

- A - Certificate of Authority & FCC License Documentation
- B - Site Development Plan:
 - 500' Vicinity Map
 - Legal Descriptions
 - Flood Plain Certification
 - Site Plan
 - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing Utilities, Corporations, or Persons List
- E - FAA
- F - Kentucky Airport Zoning Commission
- G - Geotechnical Report
- H - Directions to WCF Site
- I - Copy of Real Estate Agreement
- J - Notification Listing
- K - Copy of Property Owner Notification
- L - Copy of County Judge/Executive Notice
- M - Copy of Posted Notices and Newspaper Notice Advertisement
- N - Copy of Radio Frequency Design Search Area

EXHIBIT A
CERTIFICATE OF AUTHORITY & FCC LICENSE
DOCUMENTATION

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

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

Certificate of Authorization

Authentication number: 216299
Visit <https://app.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

I, Alison Lundergan Grimes, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

NEW CINGULAR WIRELESS PCS, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 14, 1999.

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 28th day of May, 2019, in the 227th year of the Commonwealth.



Alison Lundergan Grimes

Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
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ADD

Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
9/27/2017 3:44 PM
Fee Receipt: \$90.00



COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

Division of Business Filings Business Filings PO Box 718, Frankfort, KY 40602 (502) 584-3490 www.sos.ky.gov	Certificate of Authority (Foreign Business Entity)	FBE
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Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274, 275, 362 and 386 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a:
- | | | |
|--|---|---|
| <input type="checkbox"/> profit corporation (KRS 271B) | <input type="checkbox"/> nonprofit corporation (KRS 273) | <input type="checkbox"/> professional service corporation (KRS 274) |
| <input type="checkbox"/> business trust (KRS 386) | <input checked="" type="checkbox"/> limited liability company (KRS 275) | <input type="checkbox"/> professional limited liability company (KRS 275) |
| <input type="checkbox"/> limited partnership (KRS 382) | <input type="checkbox"/> ltd cooperative assn. (KRS) | <input type="checkbox"/> statutory trust |
| <input type="checkbox"/> non-profit lic (KRS 275) | <input type="checkbox"/> cooperative assn. (KRS) | |

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

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

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

5. The date of organization is June 13 2016 and the period of duration is Perpetual
(If left blank, the period of duration is considered perpetual.)

6. The mailing address of the entity's principal office is

<u>152 W 67th Street</u>	<u>New York</u>	<u>NY</u>	<u>10019</u>
Street Address	City	State	Zip Code

7. The street address of the entity's registered office in Kentucky is

<u>421 WEST MAIN ST.</u>	<u>FRANKFORT</u>	<u>KY</u>	<u>40601</u>
Street Address (No P.O. Box Numbers)	City	State	Zip Code

and the name of the registered agent at that office is S&H FRANKFORT, LLC

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

<u>Suruchi Ahuja</u>	<u>152 W 67th Street</u>	<u>New York</u>	<u>NY</u>	<u>10019</u>
Name	Street or P.O. Box	City	State	Zip Code
_____ Name	_____ Street or P.O. Box	_____ City	_____ State	_____ Zip Code
_____ Name	_____ Street or P.O. Box	_____ City	_____ State	_____ Zip Code

9. If a professional service corporation, all the individual shareholders, not less than one half (1/2) of the directors, and all of the officers other than the secretary and treasurer are licensed in one or more states or territories of the United States or District of Columbia to render a professional service described in the statement of purpose 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, unless a delayed effective date and/or time is provided. The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is _____

Please indicate the Kentucky county in which your business operates:
County: _____

To complete the following, please check the box completely.

Please indicate the size of your business: <input type="checkbox"/> Small (Fewer than 50 employees) <input type="checkbox"/> Large (50 or more employees)	Please indicate whether any of the following make up more than fifty percent (50%) of your business ownership: <input type="checkbox"/> Women-Owned <input type="checkbox"/> Veteran Owned <input type="checkbox"/> Minority Owned
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Please indicate which of the following best describes your business:

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Mining	<input type="checkbox"/> Services	<input type="checkbox"/> Construction
<input type="checkbox"/> Wholesale Trade	<input type="checkbox"/> Retail Trade	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Finance, Insurance, Real Estate
<input type="checkbox"/> Public Administration	<input type="checkbox"/> Transportation, Communications, Electric, Gas, Sanitary Services		
<input type="checkbox"/> Other			

X Suruchi Ahuja Suruchi Ahuja, Manager X 9/26/2017
Signature of Authorized Representative Printed Name & Title Date

I, S&H FRANKFORT, LLC, consent to serve as the registered agent on behalf of the business entity.

Member 9/27/17
Signature of Registered Agent Printed Name Title Date

Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "TILLMAN INFRASTRUCTURE LLC", FILED IN THIS OFFICE ON THE THIRTEENTH DAY OF JUNE, A.D. 2016, AT 11:07 O`CLOCK A.M.




Jeffrey W. Bullock, Secretary of State

6067508 8100
SR# 20164424697

Authentication: 202480828
Date: 06-13-16

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

CERTIFICATE OF FORMATION

of

TILLMAN INFRASTRUCTURE LLC

A LIMITED LIABILITY COMPANY

Pursuant to Section 18-201:

FIRST: The name of the limited liability company is:
TILLMAN INFRASTRUCTURE LLC

SECOND: Its registered office in the State of Delaware is to be located at: 1013 Centre Road, Suite 403S, Wilmington, DE 19805, County of New Castle and its registered agent at such address is: BlumbergExcelsior Corporate Services, Inc.

THIRD: The duration of the limited liability company is perpetual.

IN WITNESS WHEREOF, the undersigned, being the individual forming the limited liability company, has executed, signed and acknowledged this Certificate of Formation this 13th day of June, 2016

/s/ Jose Mojica
Jose Mojica
Organizer

Statement of Organizers Action


of

TILLMAN INFRASTRUCTURE LLC

The undersigned, being the initial authorized person of the within named limited liability company does hereby state that:

1. The Certificate of Formation of the Limited Liability Company (herein known as the "LLC") was filed by the State of Delaware on June 13, 2016. The Certificate of Formation is annexed hereto. The same hereby, is ordered filed with the Operating Agreement of the LLC.
2. At the time of its formation, the LLC had at least one member/manager, to wit: Sanjiv Ahuja, Anju Ahuja, Sachit Ahuja and Suruchi Ahuja
3. The initial organizer herein is neither a member nor a manager of the LLC.
4. From this date hence, the undersigned, effective this date, has fulfilled the duties as the initial organizer of LLC and herewith relinquishes all further duties to the LLC.

IN WITNESS WHEREOF, I have made and subscribed this Initial Election of Members, this 13th day of June, 2016


Jose Mojica
Organizer

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 2100
DALLAS, TX 75202

Call Sign KNKN830	File Number 0009619230
Radio Service CL - Cellular	
Market Numer CMA443	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 1 - Fulton

Grant Date 09-08-2021	Effective Date 09-08-2021	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date 09-08-2021
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-32-58.2 N	088-19-52.1 W	162.8	215.9	1044609

Address: SOUTH OF 521 MIDWAY ROAD (76098)

City: MURRAY **County:** CALLOWAY **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.300	98.100	103.900	91.600	77.400	92.600	89.800	92.800
Transmitting ERP (watts)	90.905	315.534	257.251	45.036	1.831	0.631	0.653	5.479

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)	94.300	98.100	103.900	91.600	77.400	92.600	89.800	92.800
Transmitting ERP (watts)	0.189	0.181	2.710	24.477	46.412	26.231	3.140	0.165

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.300	98.100	103.900	91.600	77.400	92.600	89.800	92.800
Transmitting ERP (watts)	93.187	5.247	0.653	0.792	2.286	40.640	253.641	324.312

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

File Number: 0009619230

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-40-48.5 N	088-59-38.9 W	125.6	97.5	1043413

Address: 368 US HIGHWAY 51 NORTH (76095)

City: Clinton County: HICKMAN 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)	99.500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Transmitting ERP (watts)	46.473	43.365	8.875	2.867	0.271	1.698	13.116	39.622

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)	99.500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Transmitting ERP (watts)	16.262	75.054	100.598	95.375	87.529	27.061	32.457	15.298

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)	99.500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Transmitting ERP (watts)	26.123	10.219	13.943	31.412	138.549	180.577	193.913	76.304

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-45-30.7 N	088-10-11.4 W	156.1	96.3	1043411

Address: 771 Rudolph Road (76099)

City: Hardin County: MARSHALL 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)	130.300	111.500	104.000	127.200	98.400	106.100	109.000	115.300
Transmitting ERP (watts)	138.810	181.853	201.332	78.257	26.754	10.412	13.921	31.435

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)	130.300	111.500	104.000	127.200	98.400	106.100	109.000	115.300
Transmitting ERP (watts)	0.495	0.767	13.331	103.933	243.934	88.607	9.081	2.358

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)	130.300	111.500	104.000	127.200	98.400	106.100	109.000	115.300
Transmitting ERP (watts)	121.085	34.811	25.322	9.647	14.734	94.724	185.217	194.265

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

File Number: 0009619230

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	36-57-02.0 N	089-04-57.4 W	139.6	35.1	

Address: 966 Westvaco Road (76102)

City: WICKLIFFE County: BALLARD 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)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800
Transmitting ERP (watts)	208.387	279.525	57.987	6.279	2.348	0.861	2.044	43.197

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)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800
Transmitting ERP (watts)	13.096	122.483	310.652	139.984	16.567	3.121	0.637	1.151

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)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800
Transmitting ERP (watts)	1.083	3.141	55.641	235.301	265.480	45.044	5.015	1.649

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: 550 Powell Road (76108)

City: FULTON County: HICKMAN State: KY Construction Deadline: 10-17-2014

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)	54.600	50.500	50.000	62.400	74.100	82.600	70.400	68.900
Transmitting ERP (watts)	54.186	259.791	165.189	15.440	1.821	0.520	0.538	2.272

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.600	50.500	50.000	62.400	74.100	82.600	70.400	68.900
Transmitting ERP (watts)	37.483	3.445	0.681	0.543	0.696	23.278	173.429	255.845

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-38-43.9 N	088-28-32.2 W	171.9	129.8	1210819

Address: 1211 Bazzell Cemetery Road (76104)

City: Murray County: CALLOWAY State: KY Construction Deadline: 10-17-2014

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)	119.500	104.900	100.600	100.600	101.500	99.400	106.900	111.600
Transmitting ERP (watts)	90.670	314.927	257.500	45.061	1.817	0.634	0.658	5.547

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

File Number: 0009619230

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-38-43.9 N	088-28-32.2 W	171.9	129.8	1210819

Address: 1211 Bazzell Cemetery Road (76104)

City: Murray County: CALLOWAY State: KY Construction Deadline: 10-17-2014

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)	119.500	104.900	100.600	100.600	101.500	99.400	106.900	111.600
Transmitting ERP (watts)	0.367	0.330	5.484	55.361	112.914	58.679	6.523	0.289

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.500	104.900	100.600	100.600	101.500	99.400	106.900	111.600
Transmitting ERP (watts)	92.571	5.224	0.656	0.800	2.278	41.111	254.363	324.895

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-36-41.4 N	088-47-03.9 W	155.7	98.4	1215493

Address: 13111 State Route 45 South (76105)

City: Wingo County: GRAVES State: KY Construction Deadline: 10-17-2014

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)	113.900	104.300	100.500	100.100	118.200	120.600	142.500	118.400
Transmitting ERP (watts)	75.324	249.922	174.975	24.513	3.151	0.522	1.154	5.702

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.900	104.300	100.500	100.100	118.200	120.600	142.500	118.400
Transmitting ERP (watts)	0.327	2.041	16.058	48.846	56.920	53.682	10.688	3.498

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	113.900	104.300	100.500	100.100	118.200	120.600	142.500	118.400
Transmitting ERP (watts)	52.956	5.694	1.994	0.772	1.841	39.724	185.306	249.412

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	37-01-59.6 N	088-55-53.8 W	137.2	81.7	1061534

Address: HIGHWAY 358 SOUTH (76094)

City: LA CENTER County: BALLARD State: KY Construction Deadline: 10-17-2014

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)	89.800	81.800	70.500	81.800	84.100	79.400	91.200	97.100
Transmitting ERP (watts)	112.389	322.213	224.476	23.789	1.892	0.660	0.706	9.624

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	37-01-59.6 N	088-55-53.8 W	137.2	81.7	1061534

Address: HIGHWAY 358 SOUTH (76094)

City: LA CENTER County: BALLARD State: KY Construction Deadline: 10-17-2014

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.800	81.800	70.500	81.800	84.100	79.400	91.200	97.100
Transmitting ERP (watts)	0.245	0.296	9.047	63.327	119.917	49.080	4.913	0.289
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.800	81.800	70.500	81.800	84.100	79.400	91.200	97.100
Transmitting ERP (watts)	61.077	6.560	2.321	0.892	2.139	46.212	218.148	287.895

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-02-00.0 N	088-22-10.0 W	105.5	106.7	1040303

Address: 641 GARY JOHNSON ROAD (76096)

City: CALVERT CITY County: MARSHALL State: KY Construction Deadline: 10-17-2014

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)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600
Transmitting ERP (watts)	19.290	27.291	31.707	11.704	2.348	0.517	1.589	4.904
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)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600
Transmitting ERP (watts)	0.103	0.173	3.333	26.500	50.592	22.618	2.382	0.161
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)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600
Transmitting ERP (watts)	51.334	5.515	1.916	0.726	1.742	37.531	178.683	239.865

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	36-52-41.6 N	088-12-19.4 W	132.3	94.5	1223751

Address: 3018 Barge Island Road (76116)

City: Benton County: MARSHALL State: KY Construction Deadline: 10-17-2014

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)	100.900	74.800	82.900	90.300	83.200	75.100	82.700	89.800
Transmitting ERP (watts)	64.257	218.461	153.987	21.410	2.758	0.447	1.004	4.863

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	36-52-41.6 N	088-12-19.4 W	132.3	94.5	1223751

Address: 3018 Barge Island Road (76116)

City: Benton County: MARSHALL State: KY Construction Deadline: 10-17-2014

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.900	74.800	82.900	90.300	83.200	75.100	82.700	89.800
Transmitting ERP (watts)	0.516	0.812	13.931	109.389	254.428	92.990	9.535	2.468

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.900	74.800	82.900	90.300	83.200	75.100	82.700	89.800
Transmitting ERP (watts)	126.395	36.677	26.446	10.150	15.357	99.601	194.625	203.444

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	37-06-39.7 N	088-57-32.4 W	118.3	86.6	1244919

Address: 2967 BANDANA ROAD (76122)

City: LA CENTER County: BALLARD State: KY Construction Deadline: 10-17-2014

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)	98.000	96.700	81.000	73.300	74.700	89.200	104.100	92.500
Transmitting ERP (watts)	40.898	65.024	70.503	22.298	3.898	0.957	2.616	9.032

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.000	96.700	81.000	73.300	74.700	89.200	104.100	92.500
Transmitting ERP (watts)	0.519	25.920	110.565	221.603	140.992	214.122	87.608	63.085

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.000	96.700	81.000	73.300	74.700	89.200	104.100	92.500
Transmitting ERP (watts)	37.744	5.696	3.296	2.226	3.676	28.040	60.416	72.478

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-48-47.4 N	089-01-13.9 W	114.0	92.7	1244912

Address: 461 COUNTY ROAD 1235 (76123)

City: ARLINGTON County: CARLISLE State: KY Construction Deadline: 10-17-2014

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)	90.300	82.200	73.600	91.100	97.500	88.700	101.500	87.500
Transmitting ERP (watts)	106.670	236.325	87.322	9.136	2.326	0.497	0.777	13.791

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-48-47.4 N	089-01-13.9 W	114.0	92.7	1244912

Address: 461 COUNTY ROAD 1235 (76123)

City: ARLINGTON County: CARLISLE State: KY Construction Deadline: 10-17-2014

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)	90.300	82.200	73.600	91.100	97.500	88.700	101.500	87.500
Transmitting ERP (watts)	3.771	6.725	70.667	194.932	224.510	93.220	19.059	10.392

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)	90.300	82.200	73.600	91.100	97.500	88.700	101.500	87.500
Transmitting ERP (watts)	17.405	2.960	0.738	2.081	7.101	31.894	50.141	56.076

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	36-32-49.7 N	088-09-16.0 W	128.6	77.7	1245399

Address: 10475 STATE ROAD 121 (76124)

City: NEW CONCORD County: CALLOWAY State: KY Construction Deadline: 10-17-2014

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)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700
Transmitting ERP (watts)	103.508	96.740	121.896	67.061	24.395	17.896	22.126	33.816

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)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700
Transmitting ERP (watts)	0.291	1.775	14.241	42.943	50.803	47.977	9.728	3.207

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)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700
Transmitting ERP (watts)	131.978	37.385	27.253	10.383	15.864	101.405	199.819	210.869

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	36-33-30.0 N	088-35-22.0 W	172.2	98.7	1041880

Address: 2539 State Rte 94E (100720)

City: Sedalia County: GRAVES State: KY Construction Deadline: 10-17-2014

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.800	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	118.798	346.026	241.383	25.538	2.032	0.686	0.737	10.121

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	36-33-30.0 N	088-35-22.0 W	172.2	98.7	1041880

Address: 2539 State Rte 94E (100720)

City: Sedalia County: GRAVES State: KY Construction Deadline: 10-17-2014

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)	88.800	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	0.101	0.148	0.723	2.670	2.039	2.501	0.544	0.100

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	88.800	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	39.858	3.632	0.525	0.681	3.083	30.083	155.327	190.084

Antenna: 6

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	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	116.175	337.516	238.141	25.039	2.002	0.669	0.719	9.904

Antenna: 7

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	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	0.100	0.100	0.108	1.032	1.990	0.939	0.099	0.100

Antenna: 8

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	79.000	80.100	102.800	107.300	113.300	86.100	90.300
Transmitting ERP (watts)	39.129	3.555	0.510	0.662	3.020	29.428	154.053	187.149

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	36-38-26.2 N	088-16-00.1 W	165.8	90.8	1030663

Address: 1431 Van Cleave Road

City: MURRAY County: CALLOWAY State: KY Construction Deadline: 03-19-2014

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)	95.400	94.000	102.000	97.700	75.000	79.400	73.500	84.000
Transmitting ERP (watts)	99.973	347.694	284.408	49.684	2.009	0.693	0.722	6.047

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	95.400	94.000	102.000	97.700	75.000	79.400	73.500	84.000
Transmitting ERP (watts)	0.658	0.593	9.481	98.900	202.269	103.412	11.469	0.466

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)	95.400	94.000	102.000	97.700	75.000	79.400	73.500	84.000
Transmitting ERP (watts)	102.904	5.789	0.721	0.870	2.492	44.530	280.630	358.642

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
31	37-01-59.2 N	088-32-46.3 W	104.9	60.7	

Address: 311 PUGH ROAD (82847)
City: PADUCAH County: MCCRACKEN State: KY Construction Deadline: 10-17-2014

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)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	138.239	395.682	273.086	31.636	2.365	0.791	0.870	14.102

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)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	0.870	0.945	31.495	230.326	421.829	159.645	11.045	1.137

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)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	1.780	0.299	0.112	0.233	0.252	1.208	2.817	2.371

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	36-59-09.8 N	088-21-18.6 W	108.2	95.4	1222232

Address: 1285 US HIGHWAY 95 (93609)
City: CALVERT CITY County: MARSHALL State: KY Construction Deadline: 10-17-2014

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)	57.000	62.900	62.000	50.300	45.400	47.200	53.800	67.500
Transmitting ERP (watts)	114.888	331.792	230.236	24.563	1.953	0.671	0.707	9.579

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.000	62.900	62.000	50.300	45.400	47.200	53.800	67.500
Transmitting ERP (watts)	0.719	1.299	23.038	188.836	348.890	135.248	7.214	1.404

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	57.000	62.900	62.000	50.300	45.400	47.200	53.800	67.500
Transmitting ERP (watts)	38.772	3.498	0.494	0.647	2.930	29.401	150.126	182.816

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

File Number: 0009619230

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	37-03-27.6 N	088-39-35.9 W	126.5	56.4	1261390

Address: 4147 Alben Barkley Drive (99179)

City: Paducah County: MCCRACKEN State: KY Construction Deadline: 10-17-2014

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)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
Transmitting ERP (watts)	63.658	183.190	130.542	23.950	3.395	0.525	0.398	6.814

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)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
Transmitting ERP (watts)	0.323	0.908	12.412	76.128	155.305	62.287	7.839	1.323

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)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
Transmitting ERP (watts)	47.164	5.084	1.161	0.385	3.481	30.943	146.763	183.338

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-36-12.1 N	089-01-51.1 W	101.2	60.7	

Address: 5151 State Route 1529 (115776)

City: Clinton County: HICKMAN State: KY Construction Deadline: 10-17-2014

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)	52.300	37.600	51.800	46.600	43.300	54.500	71.100	62.300
Transmitting ERP (watts)	278.250	103.782	10.449	2.715	0.593	0.966	15.867	122.648

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.300	37.600	51.800	46.600	43.300	54.500	71.100	62.300
Transmitting ERP (watts)	7.844	85.062	223.646	261.822	111.972	23.150	11.903	4.338

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.300	37.600	51.800	46.600	43.300	54.500	71.100	62.300
Transmitting ERP (watts)	30.528	12.489	16.284	37.081	166.124	217.556	229.754	89.752

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN830

File Number: 0009619230

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	37-00-56.6 N	088-43-49.8 W	143.3	71.6	1261050

Address: 2136 Mayfield Metropolis Road (109666)

City: Paducah County: MCCRACKEN State: KY Construction Deadline: 10-17-2014

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)	105.700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	156.876	63.244	5.131	0.692	0.325	0.405	10.985	82.231

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)	105.700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	3.414	33.471	169.860	202.694	40.839	2.592	0.626	0.446

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)	105.700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	1.525	0.525	0.550	7.646	91.503	257.113	180.615	19.227

Control Points:

Control Pt. No. 1

Address: 1650 Lyndon Farms Court

City: LOUISVILLE County: State: KY Telephone Number: (502)332-4700

Waivers/Conditions:

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S. AKARD STREET, RM 1016
DALLAS, TX 75202

Call Sign KNLH356	File Number 0009336001
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-03-2017	Effective Date 04-15-2021	Expiration Date 04-17-2027	Print Date 06-10-2021
Market Number BTA120	Channel Block F	Sub-Market Designator 0	
Market Name Dyersburg-Union City, TN			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

Call Sign: KNLH356

File Number: 0009336001

Print Date: 06-10-2021

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNLH653	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-11-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA339	Channel Block F	Sub-Market Designator 0	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 04-28-2002	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.

Grant conditioned upon consummation of the assignment of license to Banana Communications, LLC within 180 days of June 9, 2008, per Memorandum Opinion and Order, DA 08-1380, released June 9, 2008.

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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH653

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S. AKARD ST., ROOM 2100
DALLAS, TX 75202

Call Sign WPSJ971	File Number 0009434416
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-29-2021	Effective Date 04-29-2021	Expiration Date 05-29-2031	Print Date 04-30-2021
Market Number BTA339	Channel Block C	Sub-Market Designator 1	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 05-29-2006	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

Call Sign: WPSJ971

File Number: 0009434416

Print Date: 04-30-2021

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S. AKARD STREET, RM 1016
DALLAS, TX 75202

Call Sign WPSJ972	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-14-2021	Effective Date 04-15-2021	Expiration Date 05-29-2031	Print Date 06-08-2021
Market Number BTA339	Channel Block C	Sub-Market Designator 2	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 05-29-2006	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

Call Sign: WPSJ972

File Number:

Print Date: 06-08-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Table with Call Sign (WQGD472), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003291192

Table with columns: Grant Date (12-18-2006), Effective Date (08-31-2018), Expiration Date (12-18-2021), Print Date, Market Number (CMA443), Channel Block (A), Sub-Market Designator (0), Market Name (Kentucky 1 - Fulton), 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

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

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD472

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST. RM 1015
DALLAS, TX 75202

Table with Call Sign (WQGD606), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003291192

Table with columns: Grant Date (12-18-2006), Effective Date (02-20-2019), Expiration Date (12-18-2021), Print Date, Market Number (BEA072), Channel Block (C), Sub-Market Designator (0), Market Name (Paducah, KY-IL), 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: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD606

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: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGD759	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 08-31-2018	Expiration Date 12-18-2021	Print Date
Market Number BEA073	Channel Block C	Sub-Market Designator 0	
Market Name Memphis, TN-AR-MS-KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD759

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

EXHIBIT B

SITE DEVELOPMENT PLAN:

**500' VICINITY MAP
LEGAL DESCRIPTIONS
FLOOD PLAIN CERTIFICATION
SITE PLAN
VERTICAL TOWER PROFILE**

PROJECT DESCRIPTION:

INSTALLATION OF A NEW SELF-SUPPORT TOWER, A NEW MULTI-TENANT UTILITY FRAME, & NEW AT&T EQUIPMENT PAD/EQUIPMENT WITHIN A NEW FENCED & GRAVELED COMPOUND. INSTALLATION OF NEW AT&T ANTENNAS ON NEW TOWER. NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

CODE COMPLIANCE:

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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

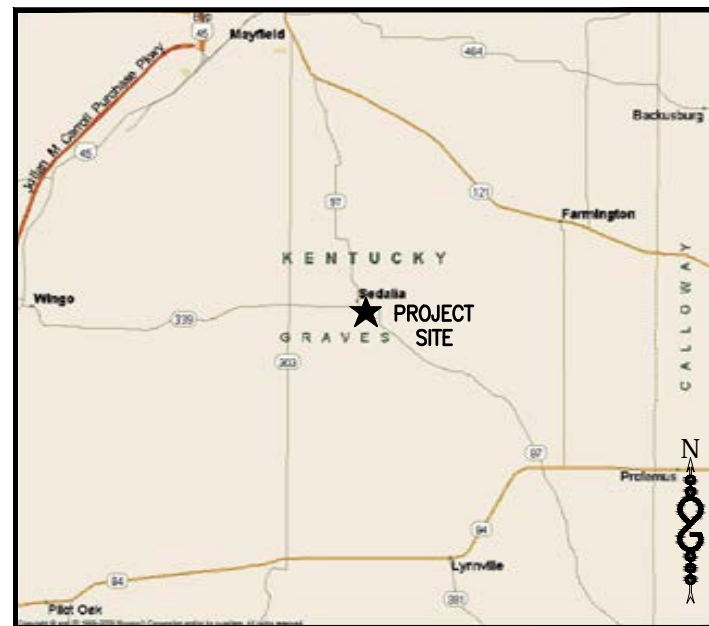
- | | |
|--|--|
| 1. 2015 INTERNATIONAL BUILDING CODE WITH KENTUCKY AMENDMENTS | 11. IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION |
| 2. 2017 NATIONAL ELECTRIC CODE | 12. TELECORDIA GR-1275 |
| 3. 2013 NFPA 101 LIFE SAFETY CODE | 13. ANSI/T 311 |
| 4. 2015 INTERNATIONAL FIRE CODE | 14. 2015 INTERNATIONAL MECHANICAL CODE WITH KENTUCKY AMENDMENTS |
| 5. AMERICAN CONCRETE INSTITUTE | 15. 2015 INTERNATIONAL PLUMBING CODE WITH KENTUCKY AMENDMENTS |
| 6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION | 16. 2012 ENERGY CONSERVATION CODE IS MEANT FOR USE WITH THE KENTUCKY BUILDING CODE ONLY EXCLUDING R-2, R-3 AND R-4 CONSTRUCTION. |
| 7. MANUAL OF STEEL CONSTRUCTION, 13TH EDITION | 17. LOCAL BUILDING CODE |
| 8. ANSI/TIA/EIA-222-G | 18. CITY/COUNTY ORDINANCES |
| 9. TIA 607 | 19. STATE BUILDING CODE |
| 10. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 | |

DIG ALERT:

CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING:
811

EMERGENCY:

CALL 911



VICINITY MAP
N.T.S

PROJECT INFORMATION

SITE NAME: SEDALIA
 SITE NUMBER: TI-OPP-17997 - 15403957
 SITE ADDRESS: 230 STATE ROUTE 381
 SEDALIA, KY 42079
 PARCEL #: 109.01.00.022.01
 DEED REFERENCE: DB 516 PG 1
 GROUND ELEVATION: 517.9' A.M.S.L.
 STRUCTURE TYPE: SELF-SUPPORT TOWER
 STRUCTURE HEIGHT: 250'
 LATITUDE (NAD 83): 36° 38' 16.29" (36.637858°) N
 LONGITUDE: 88° 36' 09.62" (88.602672°) W



**NEW SITE BUILD
 TI-OPP-17997 - 15403957
 SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079
 250' SELF-SUPPORT TOWER**

DRAWING INDEX			
DRWG. #	TITLE	REV.#	DATE
T1	TITLE SHEET	0	11/03/21
S1-S3	SURVEY (BY OTHERS)	3	05/13/21
C1	GENERAL NOTES & LEGEND	0	11/03/21
C2	GENERAL NOTES	0	11/03/21
C3	500' RADIUS AND ABUTTERS MAP & ADDRESSES	0	11/03/21
C3.1	PARCEL KEY	0	11/03/21
C3.2	SITE PLAN	0	11/03/21
C4	COMPOUND PLAN	0	11/03/21
C5	TOWER ELEVATION	0	11/03/21
C6	EQUIPMENT PLATFORM LAYOUT & CONSTRUCTION DETAILS	0	11/03/21
C7	GENERATOR DETAIL	0	11/03/21
C8	UTILITY H-FRAME DETAILS	0	11/03/21
C9	CONSTRUCTION DETAILS	0	11/03/21
C10	ANTENNA PLAN	0	11/03/21
C10.1	DETAILS	0	11/03/21
C11	DC9 & ANTENNA SPECIFICATIONS	0	11/03/21
C12	RRU DETAILS	0	11/03/21
C13	SIGNAGE DETAILS	0	11/03/21
EC1	GRADING, EROSION & SEDIMENT CONTROL PLAN	0	11/03/21
EC2	GRADING, EROSION & SEDIMENT CONTROL NOTES & DETAILS	0	11/03/21
EC3	CIVIL DETAILS	0	11/03/21
E1	ELECTRICAL PLAN	0	11/03/21
E2	COMPOUND ELECTRICAL PLAN	0	11/03/21
E3	ELECTRICAL PANEL SCHEDULE, DIAGRAM, & NOTES	0	11/03/21
E4	TYPICAL DC/FIBER SYSTEM DIAGRAM	0	11/03/21
E5	TYPICAL DC WIRING DIAGRAM	0	11/03/21
G1	GROUNDING PLAN	0	11/03/21
G2	EQUIPMENT GROUNDING PLAN	0	11/03/21
G3	GROUNDING DETAILS & NOTES	0	11/03/21
G4	GROUNDING DETAILS	0	11/03/21
RF1-RF5	RFDS INFORMATION	0	11/03/21



LOCATION MAP
N.T.S

PROJECT DIRECTORY

PARCEL OWNER(S): GREG AND MARTHA BOYD TRUST
 585 STATE ROUTE 339 EAST
 MAYFIELD, KY 42066
 APPLICANT/TOWER OWNER: TILLMAN INFRASTRUCTURE
 152 W. 57TH STREET
 NEW YORK, NY 10019
 ENGINEER: INFINIGY ENGINEERING, PLLC
 2255 SEWELL MILL ROAD
 SUITE 130
 MARIETTA, GA 30062
 CONTACT: PETER RYNER
 PHONE: (678) 444-4463
 POWER COMPANY: WEST KY RURAL ELECTRIC
 TELCO COMPANY: WK&T TELECOMMUNICATIONS

APPROVAL	DATE	SIGNATURE
RF ENGINEER:		
RF MANAGER:		
OPPS MANAGER:		
CONSTR MANAGER:		
NSB MANAGER:		
TRANSPORT:		
EQUIP ENGINEER:		
COMPLIANCE:		
LANDLORD:		
SITE ACQUISITION:		
ZONING AGENT:		
PROJECT MANAGER:		
CONSTR MANAGER:		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED

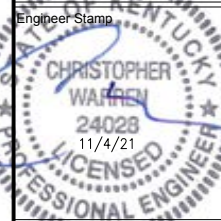


0	ISSUED FOR CONSTRUCTION	CES	11/03/21
B	ISSUED FOR REVIEW	CES	10/27/21
A	ISSUED FOR REVIEW	CES	09/28/21

Drawn: CES Date: 09/28/21
 Designed: CES Date: 09/28/21
 Checked: C/W Date: 09/28/21

Project Number: 2136-Z0001-C

Project Title:
 15403957
 TI-OPP-17997
 SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079



Drawing Title:
 TITLE SHEET

Drawing Scale:
 AS NOTED
 Date:
 09/28/21
CD

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

Drawing Number:
T1

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF TILLMAN INFRASTRUCTURE, LLC AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 5.0' PER ANGLE POINT AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. (DATE OF LAST FIELD VISIT: 4/7/2021)

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH (NAD 83) KENTUCKY SINGLE ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO.: 21083C0275C DATED: 12/03/2009

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:

POSITIONAL ACCURACY: 0.07 FEET (HORZ) 0.25 FEET (VERT)
 TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY
 TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE
 DATES OF SURVEY: 4/7/2021
 DATUM / EPOCH: NAD_83(2011)EPOCH:2010.00000
 PUBLISHED / FIXED CONTROL USE: N/A
 GEOID MODEL: 18
 COMBINED GRID FACTORS: 0.99989145 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON.
 CONVERGENCE ANGLE: -0.45428056"
 BENCHMARKS USED: DK7559, DK4660, DM4051

SURVEYOR'S CERTIFICATE

I, G. DARRELL TAYLOR, A KENTUCKY PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

G. Darrell Taylor
 G. DARRELL TAYLOR, PLS 4179
 10/25/2021
 DATE



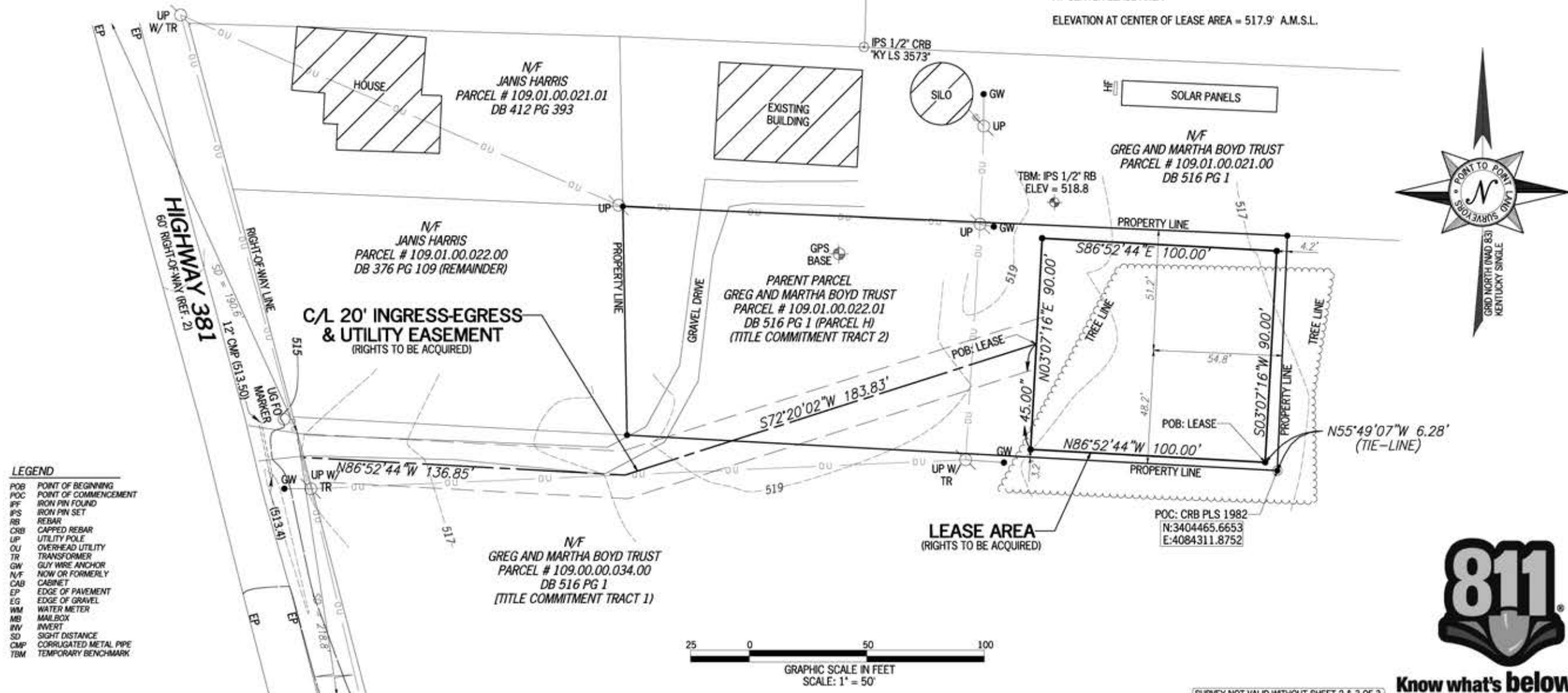
VICINITY MAP
 NOT TO SCALE

PARENT PARCEL

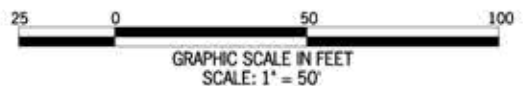
OWNER: GREG AND MARTHA BOYD TRUST
 SITE ADDRESS: 230 STATE ROUTE 381 SEDALIA, KY 42079
 PARCEL ID: 109.01.00.022.01
 AREA: 0.63 ACRES (PER TAX ASSESSOR)
 ZONED: THERE IS NO ZONING IN GRAVES COUNTY OUTSIDE OF THE CITY LIMITS AND EXTRA-TERRITORIAL JURISDICTION OF MAYFIELD.
 ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS
 REFERENCE: 1) DEED BOOK 516 PAGE 1
 2) JOHN AND JENNIFER GREAM SURVEY BY JASON W. LOOPER PLS 3573, 1/27/2020

SITE INFORMATION

LEASE AREA = 9,000 SQUARE FEET (0.2066 ACRES)
 LATITUDE = 36° 38' 16.29" (NAD 83) (36.637858°)
 LONGITUDE = -88° 36' 09.62" (NAD 83) (-88.602672°)
 AT CENTER LEASE AREA
 ELEVATION AT CENTER OF LEASE AREA = 517.9' A.M.S.L.



- LEGEND**
- POB POINT OF BEGINNING
 - POC POINT OF COMMENCEMENT
 - IPF IRON PIN FOUND
 - IPS IRON PIN SET
 - RB REBAR
 - CRB CAPPED REBAR
 - UP UTILITY POLE
 - OU OVERHEAD UTILITY
 - TR TRANSFORMER
 - GW GUY WIRE ANCHOR
 - N/F NOW OR FORMERLY
 - CAB CABINET
 - EP EDGE OF PAVEMENT
 - EG EDGE OF GRAVEL
 - WM WATER METER
 - MB MAILBOX
 - INV INVERT
 - SD SIGHT DISTANCE
 - CMP CORRUGATED METAL PIPE
 - TBM TEMPORARY BENCHMARK



(SURVEY NOT VALID WITHOUT SHEET 2 & 3 OF 3)

STATE of KENTUCKY
 G. DARRELL TAYLOR
 4179
 LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	4/20/21	20' ING./EGR. ESMT.
2	5/4/21	TITLE REVIEW
3	5/13/21	COMMENTS
4	10/25/21	COMMENTS - IMF

POINT TO POINT LAND SURVEYORS
 100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440 (f) 678.565.4497
 (w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:

TILLMAN
 INFRASTRUCTURE

TILLMAN INFRASTRUCTURE, LLC
 152 W 57TH STREET, 27TH FLOOR
 NEW YORK, NY 10019

SEDALIA

SITE NO.
 TI-OPP-17997
 GRAVES COUNTY,
 KENTUCKY

DRAWN BY: GJH

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: APRIL 14, 2021

P2P JOB #: 210399KY

SHEET:

1

OF 3



Know what's below.
 Call before you dig.

STATE of KENTUCKY
 G. DARRELL
 TAYLOR
 4179
 LICENSED
 PROFESSIONAL
 LAND SURVEYOR

LEGAL DESCRIPTION SHEET

NO.	DATE	REVISION
1	4/20/21	20' ING./EGR. ESMT.
2	5/4/21	TITLE REVIEW
3	5/13/21	COMMENTS
4	10/25/21	COMMENTS - JMF

20' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 20-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 10 FEET EACH SIDE OF CENTERLINE), LYING AND BEING IN GRAVES COUNTY, KENTUCKY, AND BEING TAX PARCELS 109.01.00.034.00 AND 109.01.00.022.01, AND BEING A PORTION OF THE LANDS CONVEYED TO THE GREG AND MARTHA BOYD TRUST AS RECORDED IN DEED BOOK 516 PAGE 1, GRAVES COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND, STAMPED "PLS 1982", AT THE SOUTHEAST CORNER OF TAX PARCEL 109.01.00.022.01, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3404465.6653 E:4084311.8752; THENCE RUNNING ALONG A TIE-LINE, NORTH 55°49'07" WEST, 6.28 FEET TO A POINT ON THE LEASE AREA; THENCE RUNNING ALONG THE LEASE AREA, NORTH 86°52'44" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 03°07'16" EAST, 45.00 FEET TO A POINT, AND THE TRUE POINT OF BEGINNING; THENCE LEAVING THE LEASE AREA AND RUNNING, SOUTH 72°20'02" WEST, 183.83 FEET TO A POINT; THENCE, NORTH 86°52'44" WEST, 136.85 FEET TO THE ENDING AT A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF HIGHWAY 381 (HAVING A 60-FOOT RIGHT-OF-WAY).

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE.

LEASE AREA

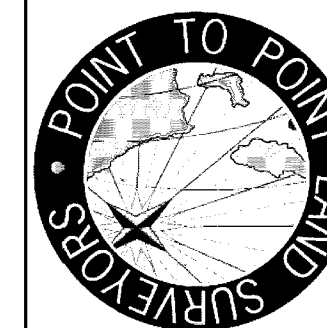
ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN GRAVES COUNTY, KENTUCKY, AND BEING TAX PARCEL 109.01.00.022.01, AND BEING A PORTION OF THE LANDS CONVEYED TO THE GREG AND MARTHA BOYD TRUST AS RECORDED IN DEED BOOK 516 PAGE 1, GRAVES COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND, STAMPED "PLS 1982", AT THE SOUTHEAST CORNER OF TAX PARCEL 109.01.00.022.01, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3404465.6653 E:4084311.8752; THENCE RUNNING ALONG A TIE-LINE, NORTH 55°49'07" WEST, 6.28 FEET TO A POINT, AND THE TRUE POINT OF BEGINNING; THENCE RUNNING, NORTH 86°52'44" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 03°07'16" EAST, 90.00 FEET TO A POINT; THENCE, SOUTH 86°52'44" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 03°07'16" WEST, 90.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2066 ACRES (9,000 SQUARE FEET), MORE OR LESS.

* SPECIFIC PURPOSE SURVEY PREPARED BY:
**POINT TO POINT
 LAND SURVEYORS**
 100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440 (f) 678.565.4497
 (w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:

TILLMAN
 INFRASTRUCTURE

TILLMAN INFRASTRUCTURE, LLC
 152 W 57TH STREET, 27TH FLOOR
 NEW YORK, NY 10019

SEDALIA

**SITE NO.
 TI-OPP-17997**
 GRAVES COUNTY,
 KENTUCKY

DRAWN BY: GJH

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: APRIL 14, 2021

P2P JOB #: 210399KY

SHEET:

2

OF 3

SURVEY NOT VALID WITHOUT SHEETS 1 & 3 OF 3

E:\Dropbox\Point to Point\2021\109988KY\Sedalia\2109988KY.dwg

PARENT PARCEL

(PER COMMITMENT NO.: TKY778952)

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF GRAVES, STATE OF KENTUCKY, AND IS DESCRIBED AS FOLLOWS:

TRACT 1:

BEING 48 ACRES OF LAND, MORE OR LESS, LYING IN THE SOUTHEAST QUARTER OF SECTION 13 T 2 R 1 E AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A STAKE IN THE CENTER OF THE SEDALIA-LYNNVILLE HIGHWAY #381 AT THE NORTHWEST CORNER OF HOYT GOUGH PROPERTY; THENCE IN AN EASTERLY DIRECTION ALONG THE HOYT GOUGH NORTH LINE 1766 FEET, MORE OR LESS, TO A STAKE, SAID STAKE BEING ON THE WEST LINE OF THE N.L. GALLOWAY PROPERTY; THENCE IN A NORTHERLY DIRECTION ALONG THE WEST LINE OF N.L. GALLOWAY PROPERTY 686 FEET, MORE OR LESS, TO A STAKE, SAID STAKE BEING ON THE SOUTH LINE OF JAP WHEELER LAND 897 FEET, MORE OR LESS, TO A STAKE, SAID STAKE BEING ON THE WEST LINE OF JAP WHEELER PROPERTY; THENCE IN A WESTERLY DIRECTION ALONG THE SOUTH LINE OF JAP WHEELER LAND; THENCE IN A NORTHERLY DIRECTION ALONG THE LINE OF JAP WHEELER LAND 800 FEET, MORE OR LESS, TO A STAKE ON THE SOUTH LINE OF NELSON BOYD PROPERTY; THENCE IN A WESTERLY DIRECTION 563 FEET, MORE OR LESS, TO A STAKE ON THE EAST LINE OF TAYLOR PROPERTY; THENCE IN A SOUTHERLY DIRECTION 100 FEET, MORE OR LESS, ALONG TAYLOR'S EAST LINE TO A STAKE, THENCE IN A WESTERLY DIRECTION ALONG TAYLOR'S SOUTH LINE 450 FEET, MORE OR LESS, TO A POINT IN THE MIDDLE OF THE SEDALIA-LYNNVILLE HIGHWAY #381, THENCE IN A SOUTHERLY DIRECTION ALONG THE CENTER LINE OF THE SEDALIA-LYNNVILLE HIGHWAY #381, 1419 FEET, MORE OR LESS, TO A STAKE WHICH IS THE POINT OF BEGINNING.

EXCEPT A 15-ACRE RECTANGULAR SHAPED PARCEL OFF OF THE SOUTHEAST CORNER OF THE ABOVE-DESCRIBED REAL ESTATE WHICH WAS CONVEYED TO N.L. GALLOWAY AND WIFE, LENA M. GALLOWAY, BY WILSON VEST AND WIFE, BY DEED DATED APRIL 9, 1960, RECORDED APRIL 9, 1960, IN DEED BOOK 173, PAGE 498, GRAVES COUNTY COURT CLERK'S OFFICE.

ALSO, EXCEPT A LOT FRONTING WEST ON HIGHWAY #381, 150 FEET AND RUNNING BACK EAST THE SAME WIDTH 300 FEET CONVEYED BY WILSON VEST AND WIFE, TO WEBSTER FORD AND WIFE, BY DEED DATED DECEMBER 27, 1961, RECORDED DECEMBER 27, 1961, IN DEED BOOK 179, PAGE 708, GRAVES COUNTY COURT CLERK'S OFFICE. AFTER THESE EXCEPTIONS ARE SUBTRACTED FROM THE REAL ESTATE HERETOFORE DESCRIBED, THERE IS BEING CONVEYED BY THIS INSTRUMENT 32 ACRES, MORE OR LESS.

TRACT 2:

A CERTAIN TRACT OF LAND LOCATED EASTERLY OF KENTUCKY 381 HIGHWAY AND SOUTHERLY OF KENTUCKY 339 HIGHWAY IN GRAVES COUNTY, KENTUCKY, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

UNLESS STATED OTHERWISE ALL IRON PINS REFERRED TO AS SET ARE A 5/8" DIAMETER IRON PIN, 18" LONG WITH A YELLOW PLASTIC CAP STAMPED R.T. CARTER, PLS 1982. ALL BEARINGS STATED HEREIN ARE MAGNETIC AND ARE TAKEN FROM A READING IN THE FIELD ON NOVEMBER 20, 2003.

BEGINNING AT AN IRON PIN SET IN THE SOUTH LINE OF GREGORY N. BOYD (DB 336, P. 599, PARCEL 3), A NEW CORNER OF JANIS HARRIS (DB 379, P. 109), SAID PIN LOCATED NORTH 82 DEGREES 14 MINUTES 25 SECONDS EAST 197.80 FEET FROM A POINT IN THE CENTER OF KENTUCKY 381 HIGHWAY; THENCE WITH THE SOUTH LINE OF GREGORY N. BOYD (DB 336, P. 599, PARCEL 3), NORTH 82 DEGREES 14 MINUTES 25 SECONDS EAST 283.10 FEET TO AN IRON PIN SET AT THE NORTHEAST CORNER OF JANIS HARRIS (DB 379, P. 109); THENCE WITH THE WEST LINE OF GREGORY N. BOYD (DB 336, P. 599, PARCEL 3), SOUTH 7 DEGREES 51 MINUTES 33 SECONDS EAST 100.00 FEET TO AN 8-1/2" X 7" CORNER POST WITH A WITNESS PIN SET AT THE SOUTHEAST CORNER OF JANIS HARRIS (DB 379, P. 109); THENCE WITH THE NORTH LINE OF GREGORY N. BOYD (DB 336, P. 599, PARCEL 1), SOUTH 82 DEGREES 50 MINUTES 33 SECONDS WEST 277.24 FEET TO AN IRON PIN SET, A NEW CORNER; THENCE WITH A NEW LINE, NORTH 11 DEGREES 19 MINUTES 39 SECONDS WEST 97.27 FEET TO THE POINT OF BEGINNING, AND CONTAINING 0.63 ACRES (MORE OR LESS).

BEING THE SAME PROPERTY CONVEYED TO GREG AND MARTHA BOYD TRUST FROM GREGORY N. BOYD AND WIFE, MARTHA L. BOYD BY GENERAL WARRANTY DEED, DATED APRIL 18, 2018 AND RECORDED ON APRIL 18, 2018 IN BOOK 516, PAGE 1.

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT DATE OF FEBRUARY 19, 2021 8:00 AM, BEING COMMITMENT NO. TKY778952, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

8. EASEMENT GRANTED UNITED STATES OF AMERICA, DATED MAY 25, 1943 OF RECORD IN DEED BOOK 126, PAGE 416, IN THE OFFICE OF THE CLERK OF GRAVES COUNTY, KENTUCKY. [THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION PROVIDED IS VAGUE.]

9. DEED FOR HIGHWAY PURPOSES, WITH EASEMENT, TO DEPARTMENT OF HIGHWAYS, DATED JUNE 19, 1957 OF RECORD IN DEED BOOK 166, PAGE 509; A PORTION OF WHICH WAS CONVEYED BACK TO NELSON AND SUE W. BOYD IN DEED DATED FEBRUARY 23, 1973, DEED BOOK 237, PAGE 208, BOTH IN THE OFFICE AFORESAID. [THIS ITEM IS APPLICABLE TO THE RIGHT OF WAY OF ROUTE 381 AND DOES NOT AFFECT THE LEASE AREA AND INGRESS/EGRESS EASEMENT.]



NO.	DATE	REVISION
1	4/20/21	20' ING./EGR. ESMT.
2	5/4/21	TITLE REVIEW
3	5/13/21	COMMENTS
4	10/25/21	COMMENTS - IMF

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS
 100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440 (f) 678.565.4497
 (w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:

TILLMAN INFRASTRUCTURE

TILLMAN INFRASTRUCTURE, LLC
 152 W 57TH STREET, 27TH FLOOR
 NEW YORK, NY 10019

SEDALIA

SITE NO. TI-OPP-17997
 GRAVES COUNTY, KENTUCKY

DRAWN BY: GJH
 CHECKED BY: JKL
 APPROVED: D. MILLER
 DATE: APRIL 14, 2021
 P2P JOB #: 210399KY

SHEET: **3**
 OF 3

GENERAL PROJECT NOTES

1. THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT ON A ONE TIME BASIS.
2. THE CONTRACTOR SHALL TOPSOIL AND SEED ALL DISTURBED AREAS.
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 811.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
6. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE ENGINEER.
7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
9. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF THE STATE LICENSED LAND SURVEYOR.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
11. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE JURISDICTIONS STATE CODE AND OSHA REGULATIONS FOR CONSTRUCTION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
13. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 24 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
14. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
15. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
16. CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE COMPOUND AND THE TOWER.
17. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED. AS-BUILTS SHALL INCLUDE ALL POWER, TELEPHONE, GROUNDING, ETC.
18. TOWER FOOTING DIMENSIONS SHALL BE VERIFIED WITH THE TOWER MANUFACTURER AND THE TOWER PLANS.

GENERAL CONSTRUCTION NOTES

1. GENERAL
 - A. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
 - B. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
 - C. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
 - D. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
 - E. PAINT ALL ANTENNAS, MOUNTING HARDWARE, CABLES, CABLE TRAYS, ETC. TO MATCH EXISTING STRUCTURE PER OWNER REQUIREMENTS. OWNER SHALL APPROVE COLOR.
 - F. ALL DAMAGED, MARRED, SCRAPED, ABRADED, ETC. AREAS OF EXISTING PAINT SHALL BE REPAIRED PER OWNERS REQUIREMENTS. OWNER SHALL APPROVE COLOR.

2. EXCAVATIONS/FOUNDATION
 - A. FOUNDATION EXCAVATION SHALL BE HAND-TRIMMED TO REMOVE LOOSE MATERIALS.
 - B. EXTERIOR FOUNDATION BACKFILL SHALL BE SELECTED GRANULAR FILL.
 - C. ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS-ON-GRADE AND FOOTINGS SHALL BE "SW" OR BETTER PER ASTM D-2487 COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY PER ASTM D 698.
 - D. DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
 - E. SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
 - F. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
 - G. FOOTING EXCAVATIONS SHALL BE CUT NEAT.
3. CONCRETE
 - A. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
 - B. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
 - C. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
 - D. MAXIMUM AGGREGATE SIZE SHALL BE 1".
 - E. THE FOLLOWING MATERIALS SHALL BE USED:

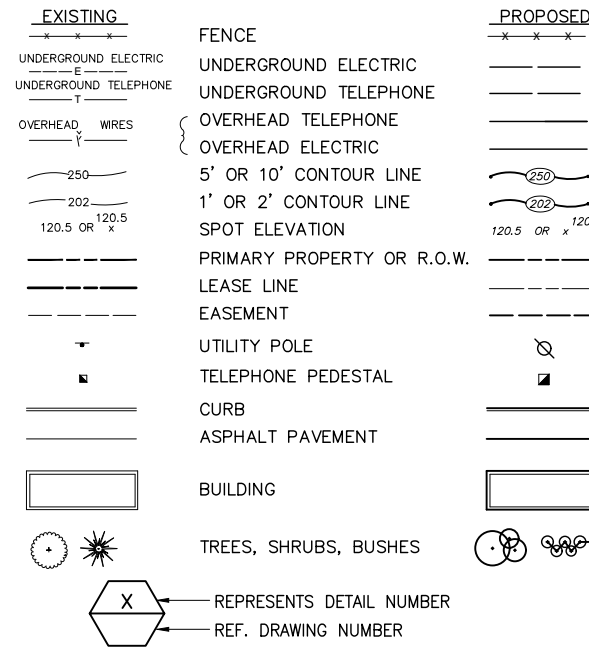
PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING
 - F. REINFORCING SHALL CONFORM TO ASTM A-615 WITH SUPPLEMENT. MINIMUM YIELD STRENGTH $F_y = 60$ KSI. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
 - G. CONCRETE COVER AROUND REINFORCING BARS (U.N.O.) SHALL BE:
 1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH.....3"
 2. CONCRETE EXPOSED TO EARTH, WEATHER.....2"
 3. SLABS.....3/4"
 4. ALL OTHER CONCRETE.....1 1/2"
 - H. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.

GENERAL CONSTRUCTION NOTES CONT.

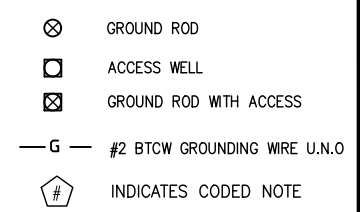
- I. CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
 - J. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
 - K. DO NOT WELD OR TACKWELD REINFORCING STEEL.
 - L. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
 - M. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
 - N. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
 - O. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
 - P. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
 - Q. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
 - R. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
 - S. PROVIDE A STEEL TROWEL FINISH TO THE SLAB.
4. ANTENNA SUPPORT BRACKET NOTES (IF APPLICABLE)
 - A. DESIGN RESPONSIBILITY OF ANTENNA MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THERE OF AND ATTACHMENT THERE TO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MFR SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA.
 - B. BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL ANTENNAS AND COAXIAL CABLES AS SHOWN.

5. STRUCTURAL STEEL NOTES
 - A. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
 - B. STEEL ANGLES, BASE PLATES, BEARING PLATES AND MISC. FABRICATION SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF ASTM-A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL TUBES AND PIPES SHALL BE A500 STEEL MINIMUM.
 - C. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE FINISHED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
 - D. ALL EXTERIOR STRUCTURAL STEEL SHALL BE, WHEN DELIVERED, HOT-DIP GALVANIZED ACCORDING TO ASTM A123. TOUCH-UP FIELD WELDS AND ABRADED AREAS W/2 COATS OF GALVANIZED PAINT, ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUAL.
 - E. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
 - F. CONNECTIONS:
 1. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 2. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
 - G. SAFETY NOTES:
 1. THE CONTRACTOR WILL ADHERE TO ALL SAFETY REGULATIONS, LOCAL, STATE AND FEDERAL.
 2. THE CONTRACTOR WILL CONDUCT DAILY SAFETY TAILGATE MEETINGS IN ADDITION TO WEEKLY SAFETY MEETINGS. THESE REPORTS WILL BE MADE AVAILABLE TO THE OWNER UPON REQUEST.
 3. ALL WORKERS & VISITORS TO THE SITE SHALL WEAR HARD HATS & ANY OTHER SAFETY EQUIPMENT REQUIRED BY THE WORK BEING PERFORMED ON THE SITE.

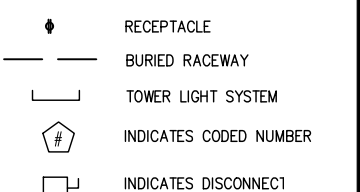
CIVIL LEGEND



GROUNDING SYMBOLS



ELECTRICAL SYMBOLS



ABBREVIATIONS

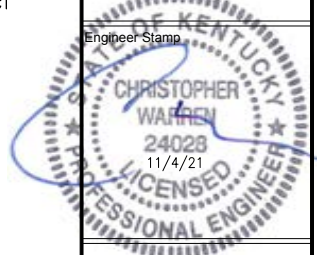
CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
W/	WITH
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING



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No.	Submittal / Revision	App'd	Date

Project Number: 2136-20001-C

Project Title: 15403957 TI-OPP-17997 SEDALIA
230 STATE ROUTE 381 SEDALIA, KY 42079



Drawing Title: GENERAL NOTES & LEGEND

Drawing Scale: AS NOTED **CD**
Date: 09/28/21

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Drawing Number: C1

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
8. TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/EIA/TIA 222-G REQUIREMENTS.
9. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
10. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE THEM AND CONTACT THE APPLICANT AND OWNER'S REPRESENTATIVE.
12. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY TWICE A MONTH.
13. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION TO THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES.
14. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
15. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
16. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORM WATER RUNOFF, THEREFORE NO DRAINAGE STRUCTURES ARE PROPOSED.
17. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.
18. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
19. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.



8372 E. BROAD ST.
REYNOLDSBURG, OH 43068



152 W. 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677



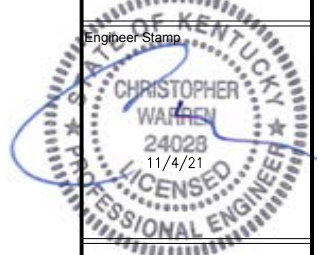
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Project Title
15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079



Drawing Title
GENERAL NOTES

Drawing Scale:
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Date:
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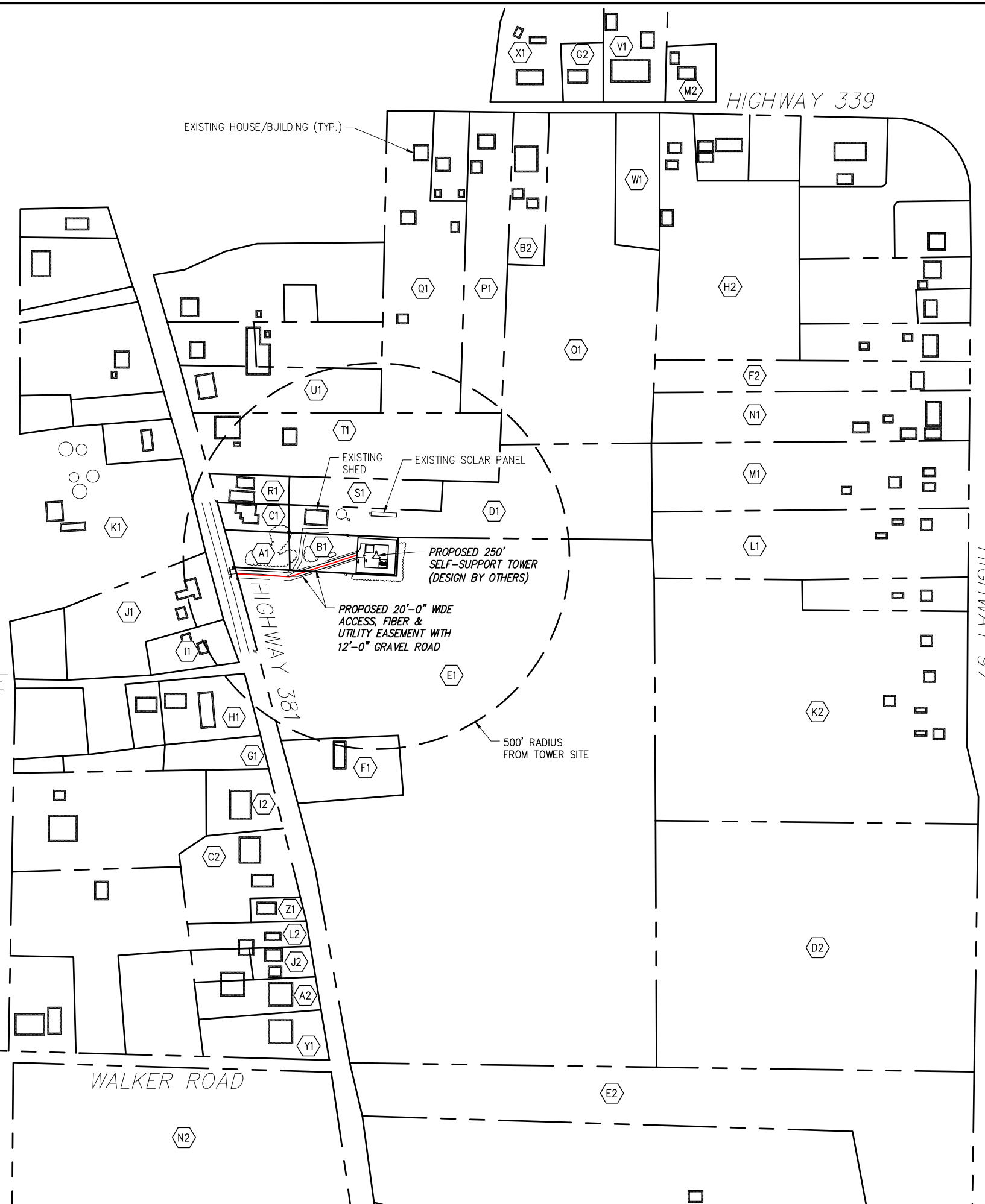
CENTER OF PROPOSED TOWER:
 LAT: 36° 38' 16.29" (36.637858°) N
 LONG.: 88° 36' 09.62" (88.602672°) W

DIRECTIONS:
 DEPART 101 E SOUTH ST, MAYFIELD, KY 42066.
 1. HEAD EAST ON E SOUTH ST TOWARD S 6TH ST.
 2. TURN RIGHT AT THE 1ST CROSS STREET ONTO S 6TH ST.
 3. TURN LEFT ONTO KY-464 E / BACKUSBURG RD.
 4. TURN RIGHT ONTO KY-121 BYPASS N.
 5. CONTINUE ONTO KY-97 S.
 6. CONTINUE ONTO KY-381 S.
 ARRIVE AT 230 KY-381, SEDALIA, KY 42079.



TILLMAN
INFRASTRUCTURE
 152 W. 57TH STREET
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 MARIETTA, GA 30062
 Office # (678) 444-4463



GRAVES COUNTY KY PVA
 HOWEL CARR, PVA
 101 EAST SOUTH STREET, SUITE 5
 MAYFIELD, KY 42066
 OFFICE: 270-247-3301
 FAX: 270-247-0205

GENERAL NOTE:
 1. ALL INFORMATION SHOWN HEREIN WAS OBTAINED FROM THE RECORDS OF THE GRAVES COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 10/14/21. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. MORRISON HERSHFIELD CORPORATION AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIM ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
 2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 3. NOT FOR RECORDING OR PROPERTY TRANSFER.

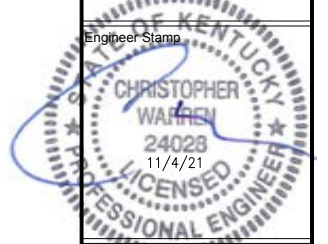
NOTE:
 PARCEL NUMBERS ARE OF RECORD IN THE GRAVES COUNTY PROPERTY VALUATION ADMINISTRATOR OFFICE



1 500' RADIUS AND ABUTTERS MAP
 SCALE: 75' 0 75' 150' 300'
 (IN FEET)
 SCALE: 11"x17" SHEET 1" = 300'-0"
 SCALE: 22"x34" SHEET 1" = 150'-0"

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Checked:	CJW	Date:	09/28/21
Project Number	2136-Z0001-C		

Project Title
15403957
TI-OPP-17997
SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079



Drawing Title
500' RADIUS AND ABUTTERS MAP & ADDRESSES

Drawing Scale:
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C3

PARCEL KEY:

A1 PARCEL ID: 109.01.00.022.00 JANIS HARRIS P.O. BOX 2 SEDALIA, KY 42079	L1 PARCEL ID: 109.01.00.002.00 CHARLES WAYNE WATSON 6271 STATE RT 97 MAYFIELD, KY 42066	W1 PARCEL ID: 109.01.00.015.00 BOYD GREG & MARTHA TRUST 585 STATE RT 339 E MAYFIELD, KY 42066	H2 PARCEL ID: 109.01.00.013.00 HOUSE BRAD & CAMILLE 1839 ST RT 339 E SEDALIA, KY 42079
B1 PARCEL ID: 109.01.00.022.01 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	M1 PARCEL ID: 109.01.00.003.00 STUART B & CATHERINE CRAFTON 6255 STATE ROUTE 97 MAYFIELD, KY 42066	X1 PARCEL ID: 109.01.00.141.00 BUSCH GLENN R JR 586 CARDINAL RD MAYFIELD, KY 42066	I2 PARCEL ID: 109.00.00.046.00 LESTER RICKY & LINDA K 381 STATE RT 381 SEDALIA, KY 42079
C1 PARCEL ID: 109.01.00.021.01 JANIS HARRIS P.O. BOX 2 SEDALIA, KY 42079	N1 PARCEL ID: 109.01.00.004.00 JOHNATHAN A RODRIGUEZ 6219 STATE ROUTE 97 MAYFIELD, KY 42066	Y1 PARCEL ID: 109.00.00.039.00 CATES JERRY & JENNIFER P O BOX 44 SEDALIA, KY 42079	J2 PARCEL ID: 109.00.00.041.00 LONG GARY LEON 447 ST RT 381 SEDALIA, KY 42079
D1 PARCEL ID: 109.01.00.021.00 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	O1 PARCEL ID: 109.01.00.016.00 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	Z1 PARCEL ID: 109.00.00.044.00 CHAMBERS MICHAEL 419 STATE RT 381 SEDALIA, KY 42079	K2 PARCEL ID: 109.00.00.030.00 PERRY JESSE & KRISTINA 1645 SCOTT RD SEDALIA, KY 42079
E1 PARCEL ID: 109.00.00.034.00 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	P1 PARCEL ID: 109.01.00.018.00 JESSICA C RILEY 1745 ST RT 339 E SEDALIA, KY 42079	A2 PARCEL ID: 109.00.00.040.00 CHOATE LORI LAIN 4978 OLD DUBLIN RD MAYFIELD, KY 42066	L2 PARCEL ID: 109.00.00.043.00 RHEA STUART T 437 STATE RT 381 SEDALIA, KY 42079
F1 PARCEL ID: 109.00.00.035.00 RICKY J HOOD 356 STATE ROUTE 381 SEDALIA, KY 42066	Q1 PARCEL ID: 109.01.00.020.00 CARLOS DEAN & LANDYN MAKENZIE FRIESEN 1697 STATE ROUTE 339 EAST SEDALIA, KY 42079	B2 PARCEL ID: 109.01.00.017.00 CLYMER RICHARD A 1765 ST RT 339 E SEDALIA, KY 42079	M2 PARCEL ID: 109.01.00.146.00 WEST MASON LEE & LINDA F 1840 STATE ROUTE 339 E SEDALIA, KY 42079
G1 PARCEL ID: 109.00.00.047.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	R1 PARCEL ID: 109.01.00.023.00 GLYNN E & TERRY LYNN COLTHARP 204 STATE RT 381 SEDALIA, KY 42079	C2 PARCEL ID: 109.00.00.045.00 COCKE TAMMY L & FOX BILLY & JANET 395 STATE RT 381 SEDALIA, KY 42079	N2 PARCEL ID: 109.00.00.038.00 WEST KY RURAL ELECT CORP P O BOX 589 MAYFIELD, KY 42066
H1 PARCEL ID: 109.00.00.048.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	S1 PARCEL ID: 109.01.00.023.01 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	D2 PARCEL ID: 109.00.00.031.00 GALLOWAY RICHARD & CATHY & GALLOWAY LARRY 6659 STATE RT 97 MAYFIELD, KY 42066	
I1 PARCEL ID: 109.00.00.049.00 DOUGLAS THOMAS 281 STATE RT 381 SEDALIA, KY 42079	T1 PARCEL ID: 109.01.00.024.00 MARY BETH CATES 182 ST RT 381 SEDALIA, KY 42079	E2 PARCEL ID: 109.00.00.032.01 GOUGH BILLY R & BRENDA J 564 STATE RT 381 SEDALIA, KY 42079	
J1 PARCEL ID: 109.00.00.050.00 CHARLES T & SARAH K ARANT 265 STATE ROUTE 381 SEDALIA, KY 42079	U1 PARCEL ID: 109.01.00.025.00 LOUIS W & CHRISTINA K KEMP 148 STATE ROUTE 381 SEDALIA, KY 42079	F2 PARCEL ID: 109.01.00.005.00 HENSLEY JERRY 6201 ST RT 97 MAYFIELD, KY 42066	
K1 PARCEL ID: 109.00.00.052.00 GERALD & SHIRLEY COLTHARP 1425 VEALSBURG ROAD SEDALIA, KY 42079	V1 PARCEL ID: 109.01.00.143.00 BLANTON LONNIE & CONNIE 1644 ST RT 1382 SEDALIA, KY 42079	G2 PARCEL ID: 109.01.00.142.00 HERITAGE CAPITAL LLC 44 NORTHSIDE DR MAYFIELD, KY 42066	

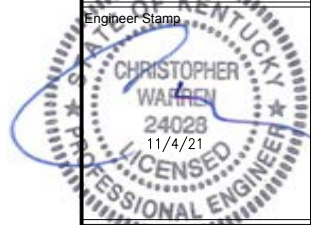
1 PARCEL KEY
SCALE: NOT TO SCALE

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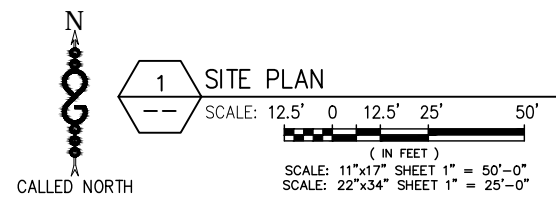
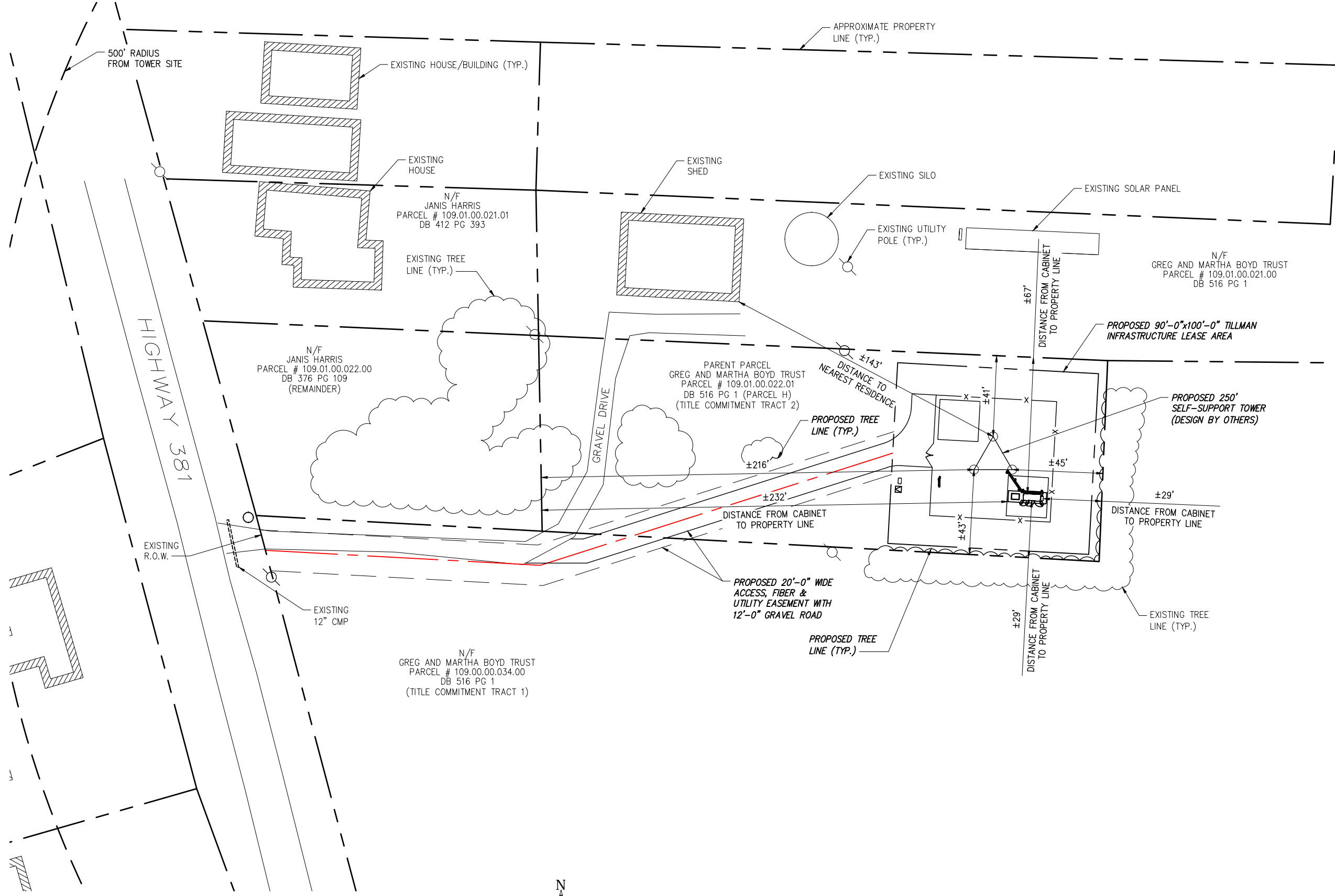
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PARCEL KEY

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Date:
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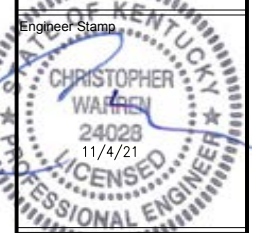
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Project Number 2136-Z0001-C

Project Title
 15403957
 TI-OPP-17997
 SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079



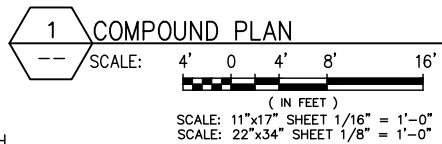
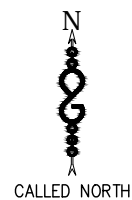
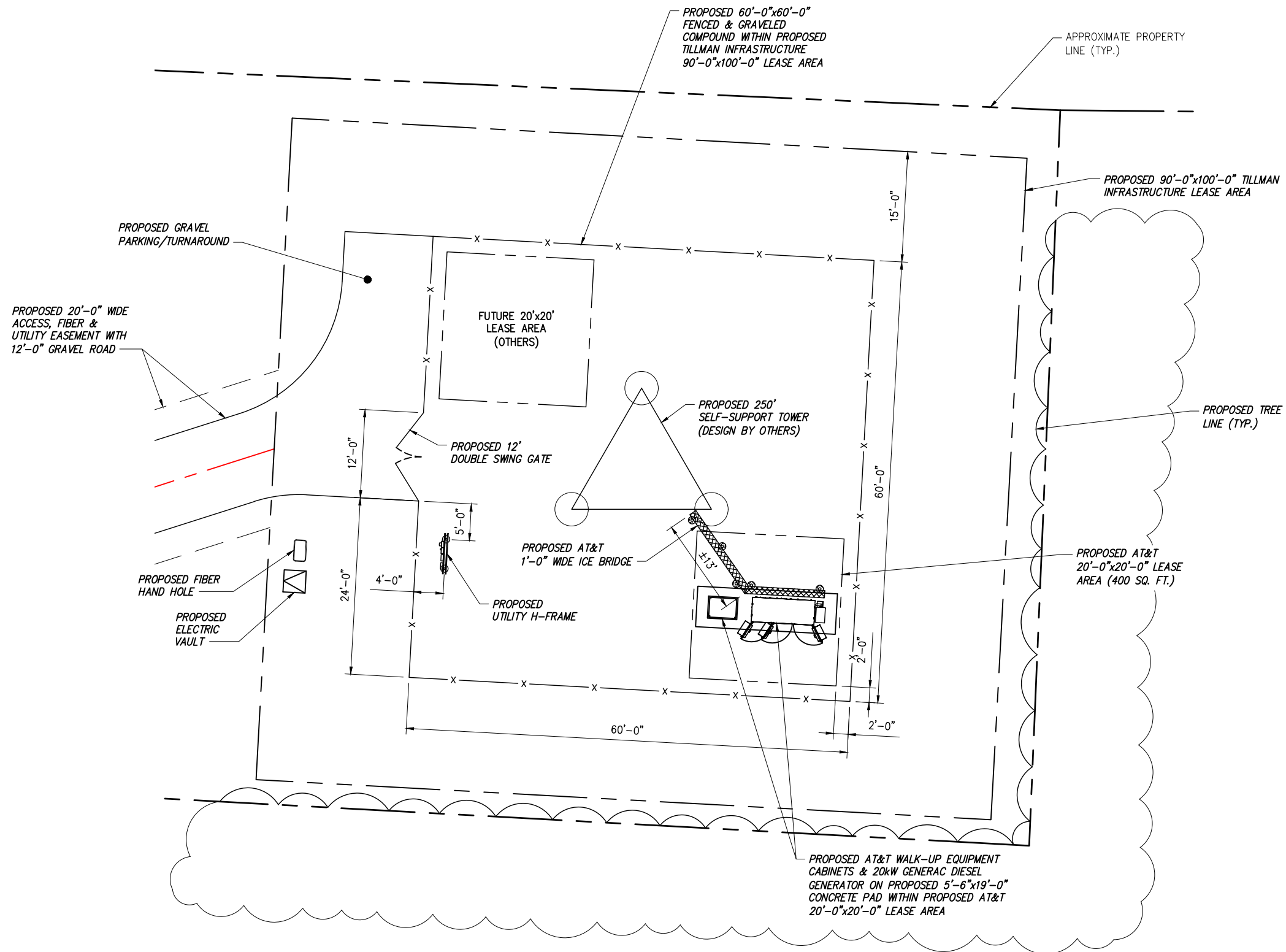
Drawing Title
 SITE PLAN

Drawing Scale:
 AS NOTED
 Date:
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CD

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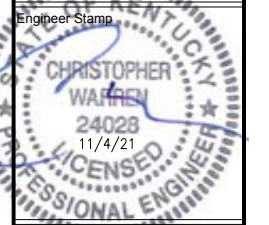
Drawing Number
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Drawing Title
COMPOUND PLAN

Drawing Scale:
AS NOTED

Date:
09/28/21

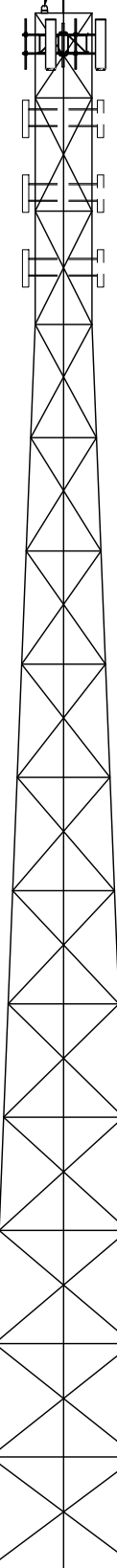
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Drawing Number
C4

- TOP OF PROPOSED LIGHTNING ROD
ELEV. = 260'-0" AGL
- TOP OF PROPOSED TOWER
ELEV. = ±250'-0" AGL
- C OF PROPOSED ANTENNAS
ELEV. = ±245'-0" AGL
- C OF FUTURE ANTENNAS
ELEV. = ±233'-0" AGL
- C OF FUTURE ANTENNAS
ELEV. = ±221'-0" AGL
- C OF FUTURE ANTENNAS
ELEV. = ±209'-0" AGL

PROPOSED BEACON LIGHT
PROPOSED LIGHTNING ROD



INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR LOADING FOR THIS SITE AND ASSUMES NO LIABILITY FOR THE STRUCTURAL INTEGRITY OF THE PROPOSED TOWER INSTALLATION. CONTRACTOR TO REFER TO TOWER DRAWINGS BY TOWER MANUFACTURER PRIOR TO CONSTRUCTION.

PROPOSED 250'-0" SELF-SUPPORT TOWER (DESIGN BY OTHERS)

PROPOSED CHAINLINK FENCE (TYP.)

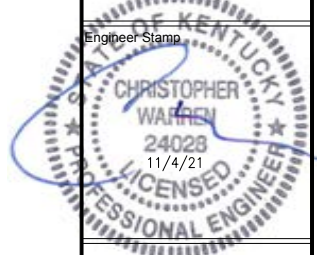
● GRADE
ELEV. = ±0'-0" AGL

1 TOWER ELEVATION
-- SCALE: NOT TO SCALE



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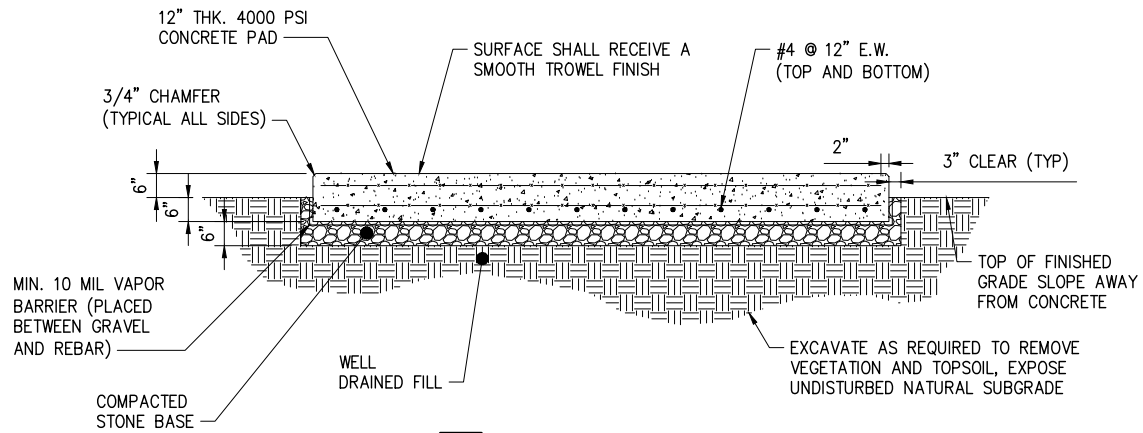


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TOWER ELEVATION

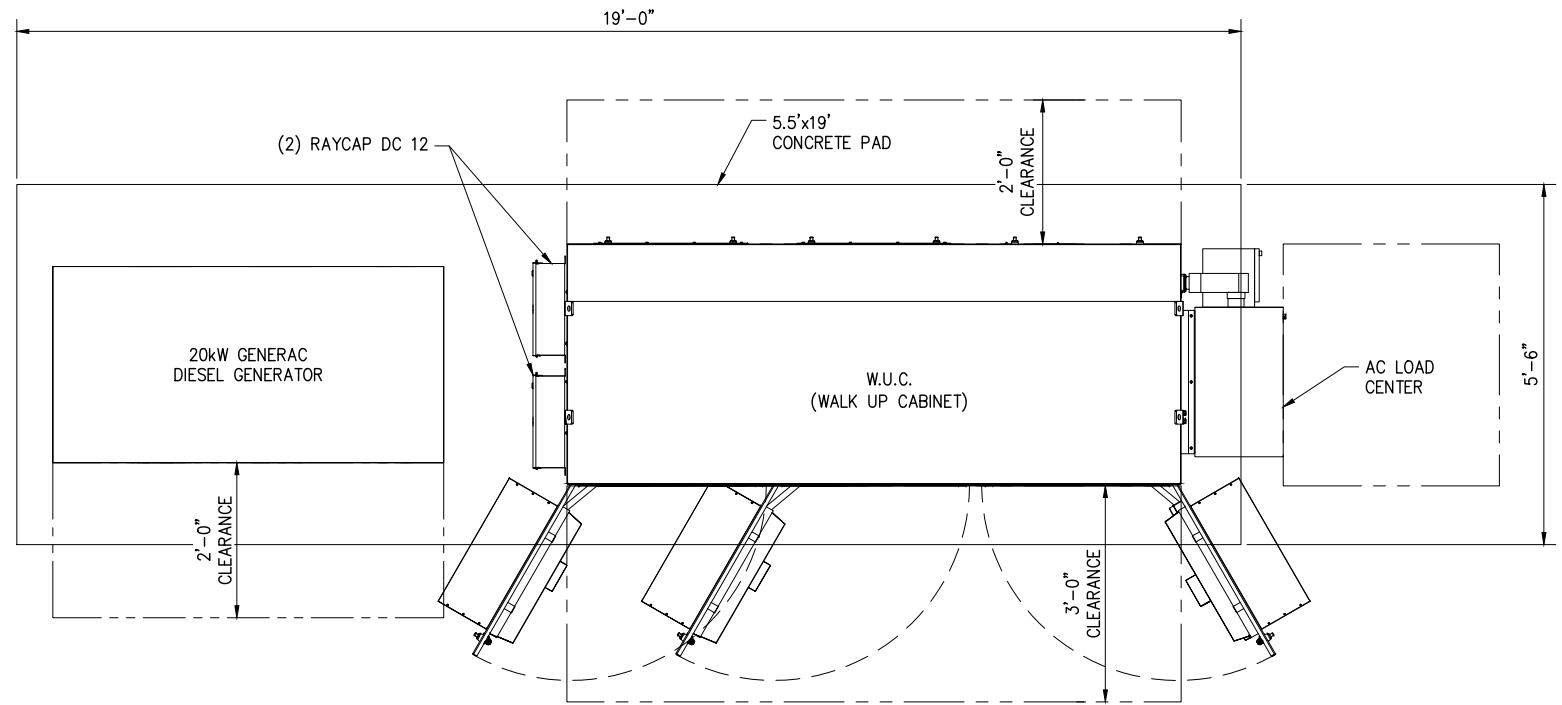
Drawing Scale: AS NOTED
Date: 09/28/21
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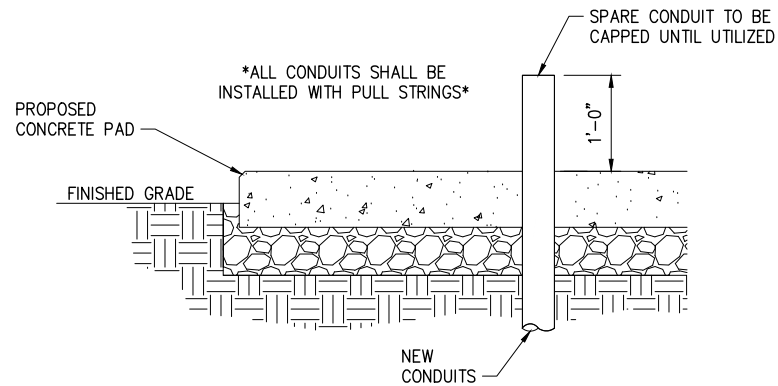
Drawing Number
C5



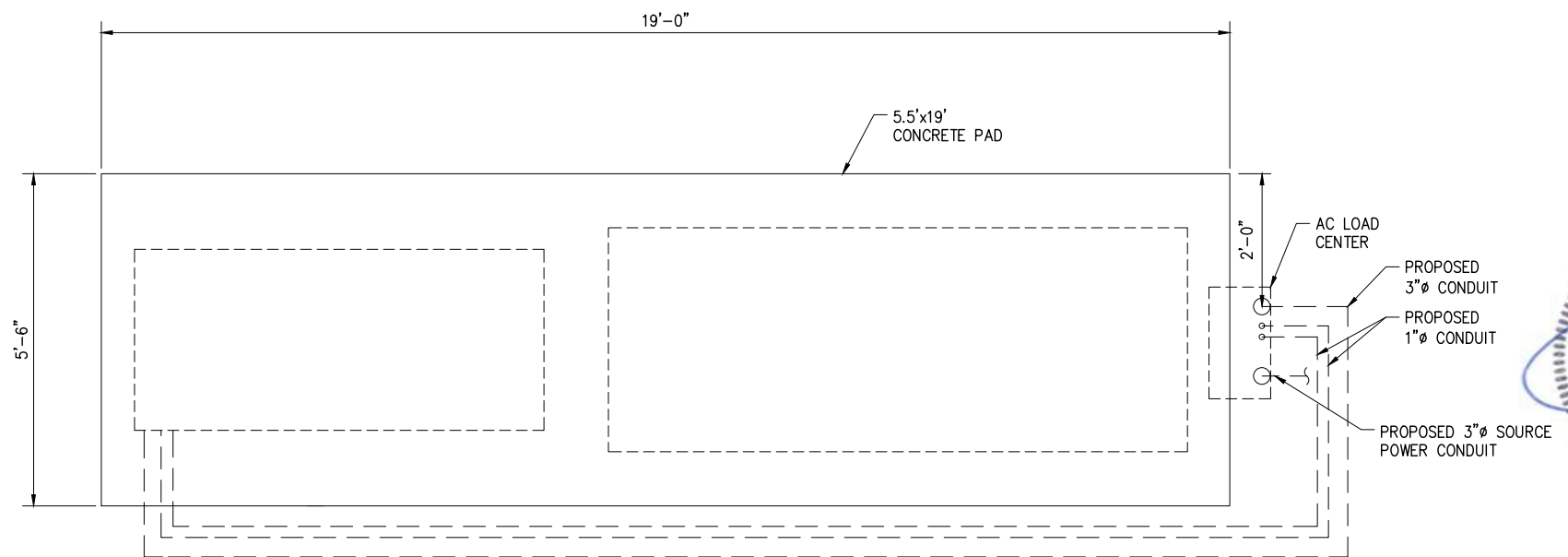
1 CONCRETE PAD DETAIL
--- NOT TO SCALE



2 EQUIPMENT PAD LAYOUT
--- NOT TO SCALE



3 CONDUIT PENETRATION DETAIL
--- NOT TO SCALE



NOTE:
EQUIPMENT PAD/UTILITY LAYOUT SHOWN
IS FOR REFERENCE & CONTRACTOR
SHALL USE SITE SPECIFIC GENERATOR
SPECIFICATIONS FOR UTILITY LAYOUT.

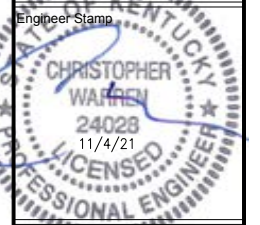
4 EQUIPMENT PAD/UTILITY LAYOUT
--- NOT TO SCALE

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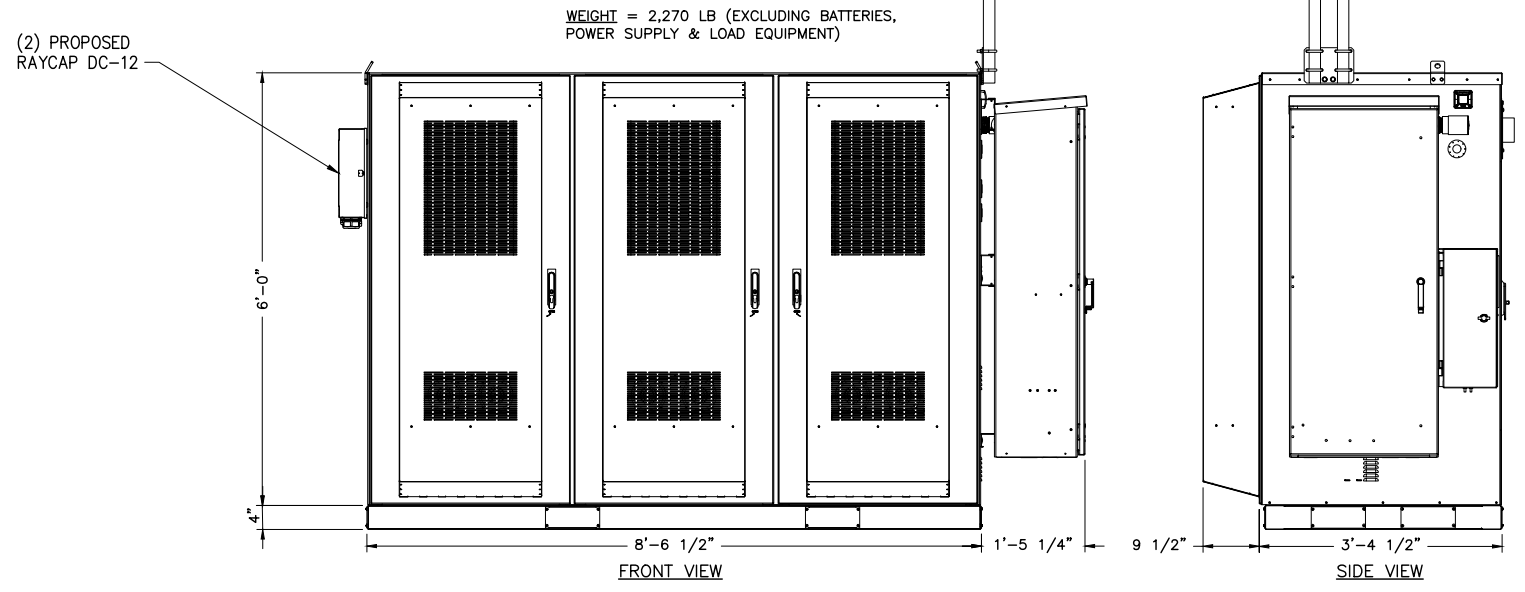
Drawing Title
EQUIPMENT PAD
LAYOUT &
CONSTRUCTION
DETAILS

Drawing Scale:
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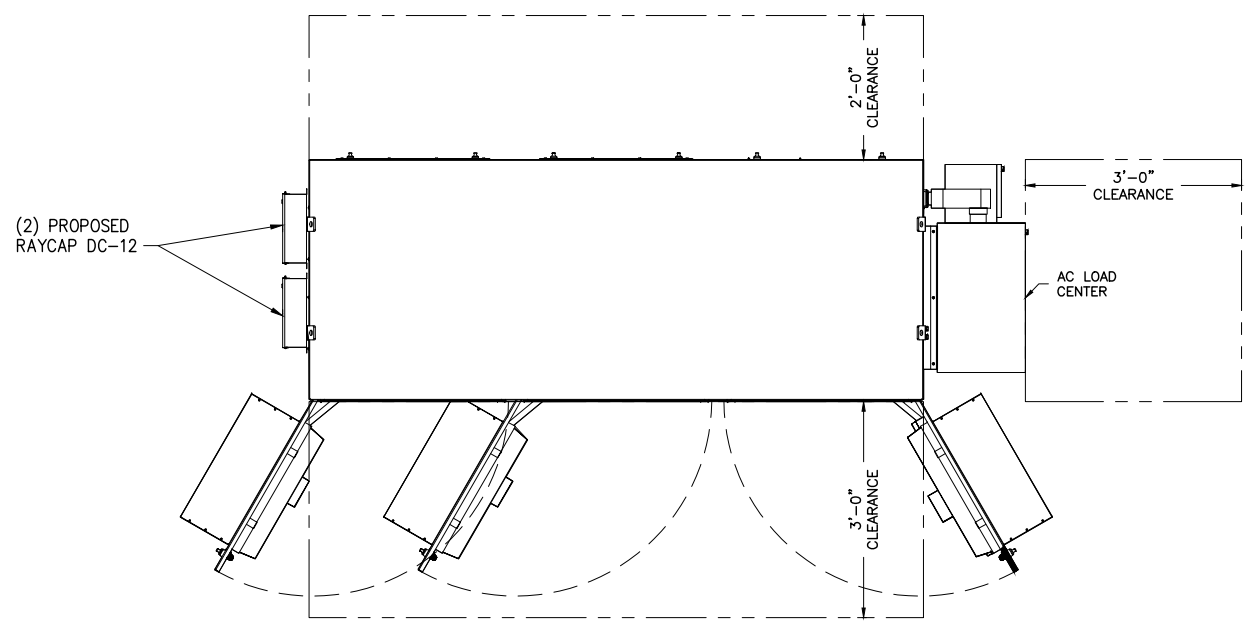
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Drawing Number

C6



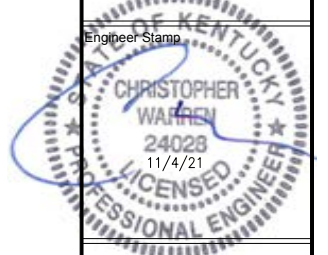
1 WALK UP CABINET ELEVATIONS – DELTA ESOF030-HCU01
 --- NOT TO SCALE



2 WALK UP CABINET – DELTA ESOF030-HCU01 PLAN
 --- NOT TO SCALE

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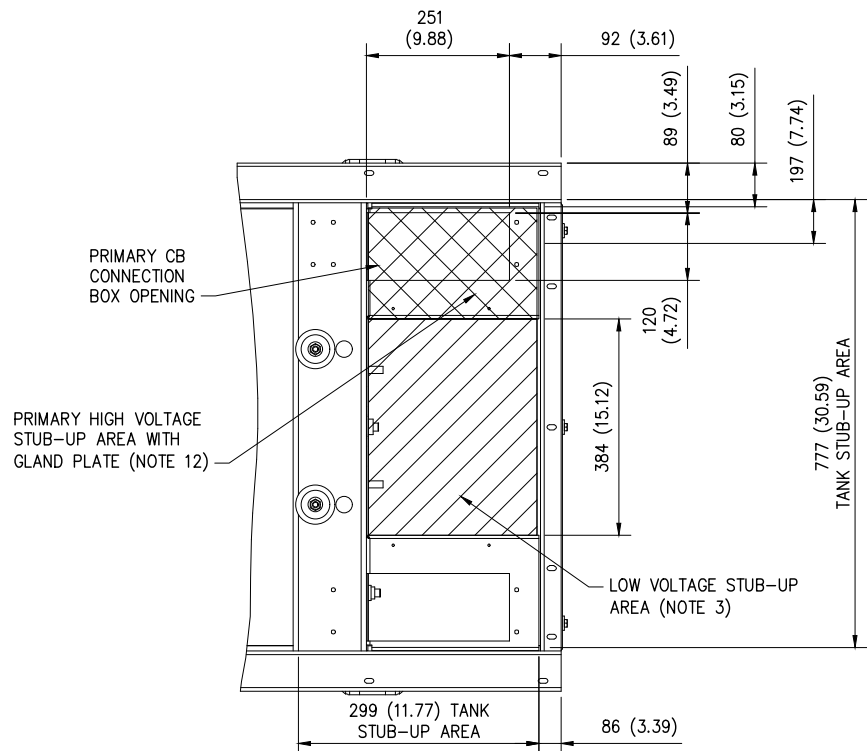
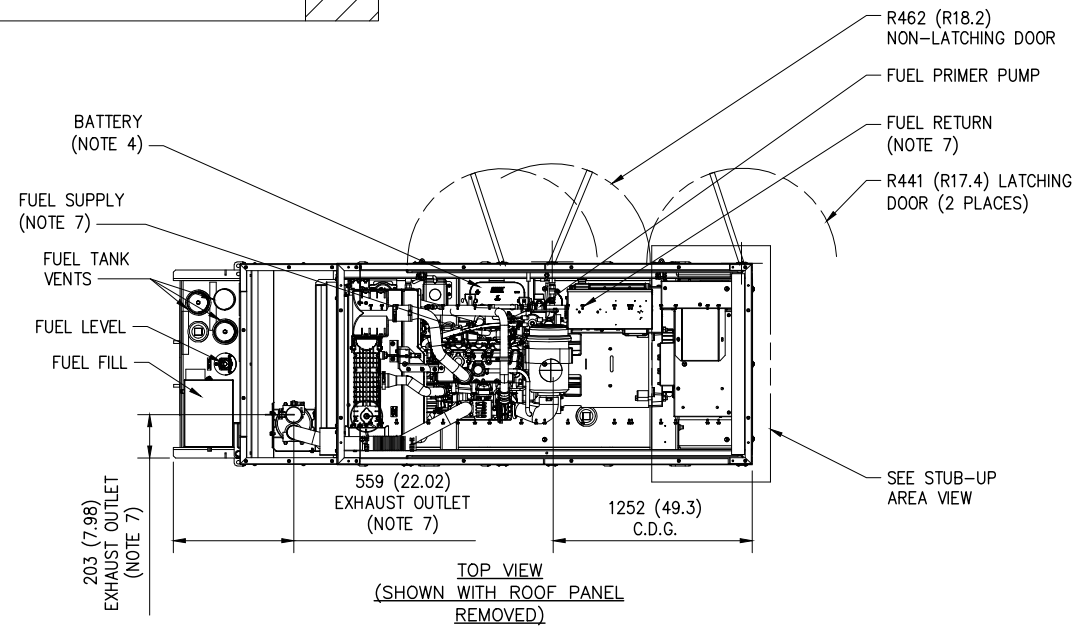
Drawing Title
 CONSTRUCTION
 DETAILS

Drawing Scale:
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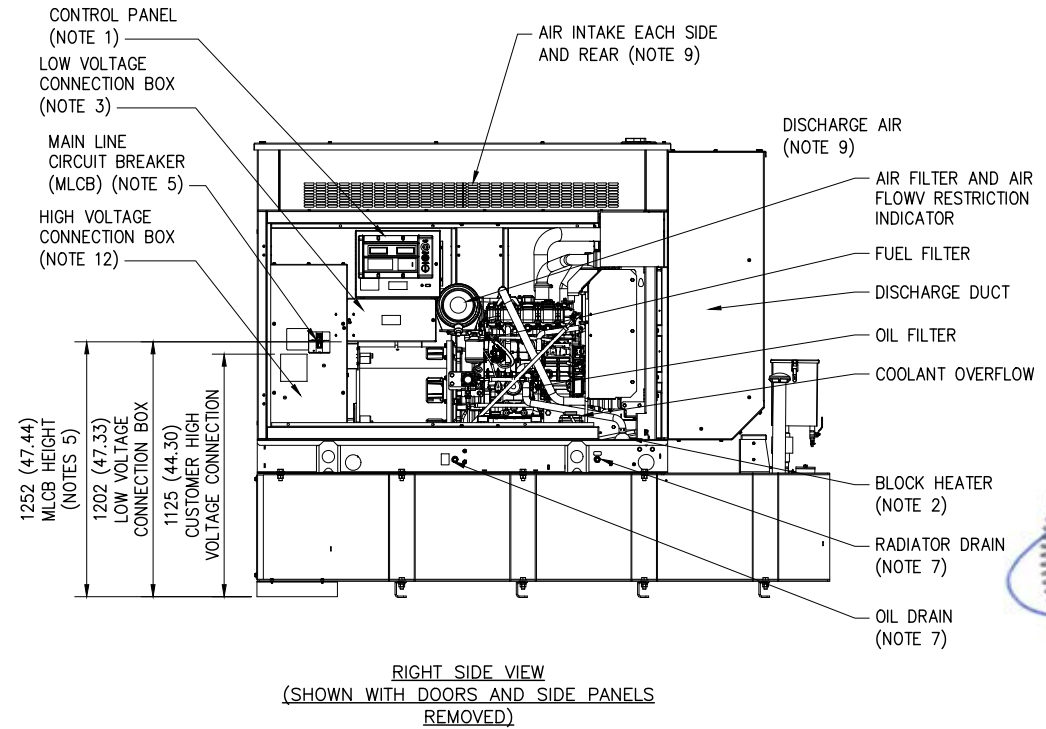
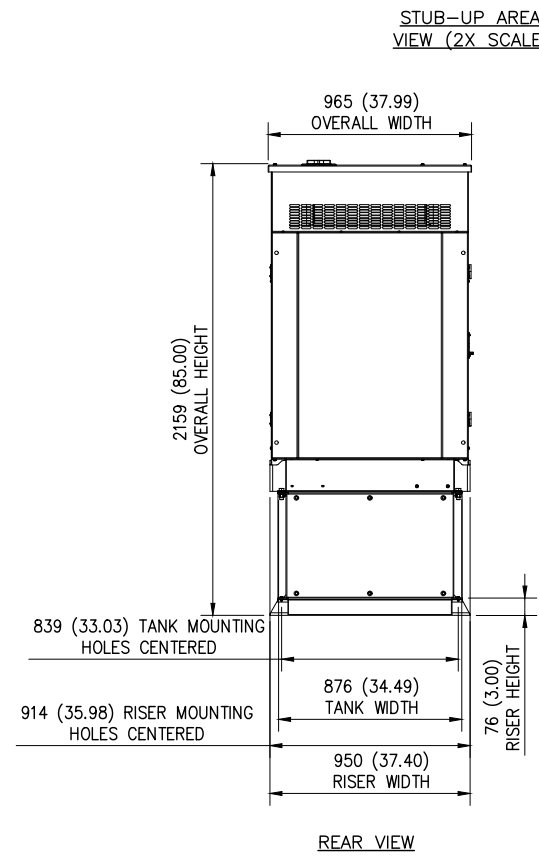
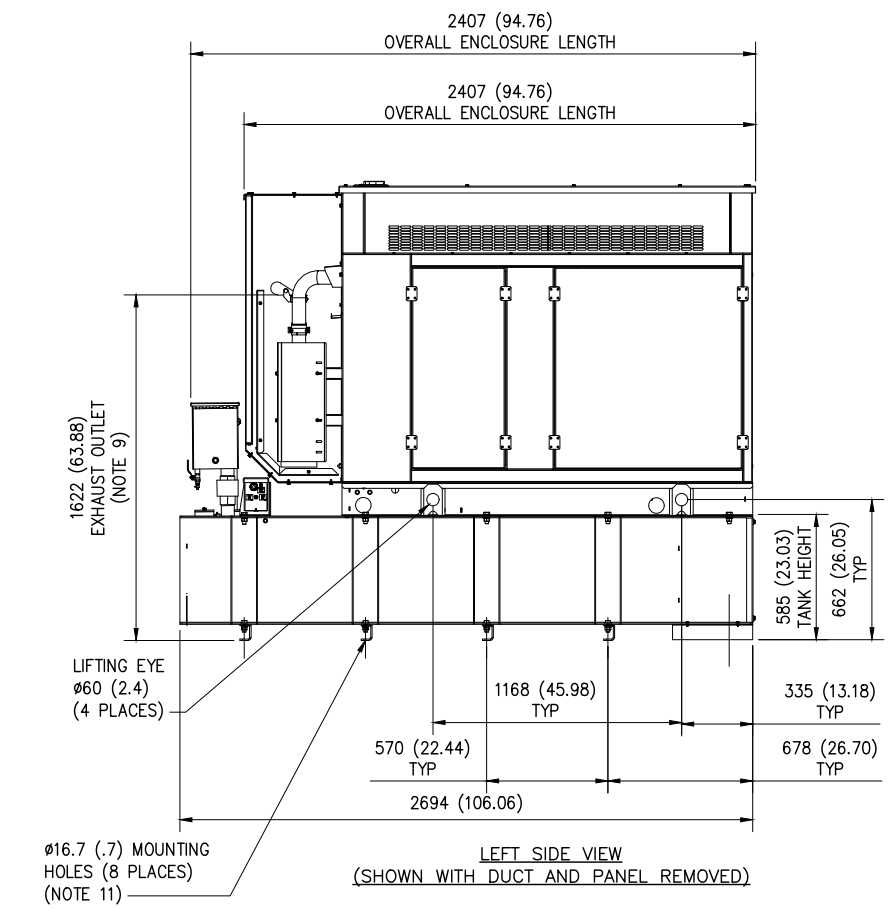
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Drawing Number
C6.1

RECOMMENDED ELECTRICAL STUB-UPS	
(HIGH VOLTAGE STUB-UP) AC LOAD LESD CONDUIT FDR PERMANENT MAGNET EXCITATION	
(LOW VOLTAGE STUB-UP)	



- NOTES:
- CONTROL PANEL (10A BATTERY CHARGER INSIDE)
 - 120V, 20A GFCI & 250V, 15A OUTLET
 - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA)
 - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
 - MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION), AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
 - CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
 - ENGINE SERVICE CONNECTIONS:
 FUEL SUPPLY= 3/8" NPT
 FUEL RETURN= 3/8" NPT
 OIL DRAIN = 1/2" NPT
 RADIATOR DRAIN = 1/2" NPT
 EXHAUST OUTLET = 2.5" I.D.
 - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
 - GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FDR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 - BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8-11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
 - HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION,
 - 132 GALLON USEABLE CAPACITY BASE TANK STANDARD WITH GENERATOR
 - 1500W 120 VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
 - FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK
 - DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED.
 - GENERATOR MUST BE GROUNDED



WEIGHT DATA: INCLUDES FUEL TANK
 GENERATOR: 1358 [2995]
 GENERATOR WITH SHIPPING SKID: 1424 (3139)

WEIGHT: KG (LBS)
 DIMENSIONS: MM (INCHES)

1 DIESEL GENERATOR - DIESEL GENERATOR (20 KW GENERAC SD20)
 --- NOT TO SCALE

8372 E. BROAD ST.
 REYNOLDSBURG, OH 43068

152 W. 57TH STREET
 NEW YORK, NEW YORK 10019
 TEL: 212-706-1677

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INFINIGY ENGINEERING, PLLC
 2255 SEWELL MILL ROAD, SUITE 130
 MARIETTA, GA 30062
 Office # (678) 444-4463

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Project Title	15403957 TI-OPP-17997 SEDALIA 230 STATE ROUTE 381 SEDALIA, KY 42079		

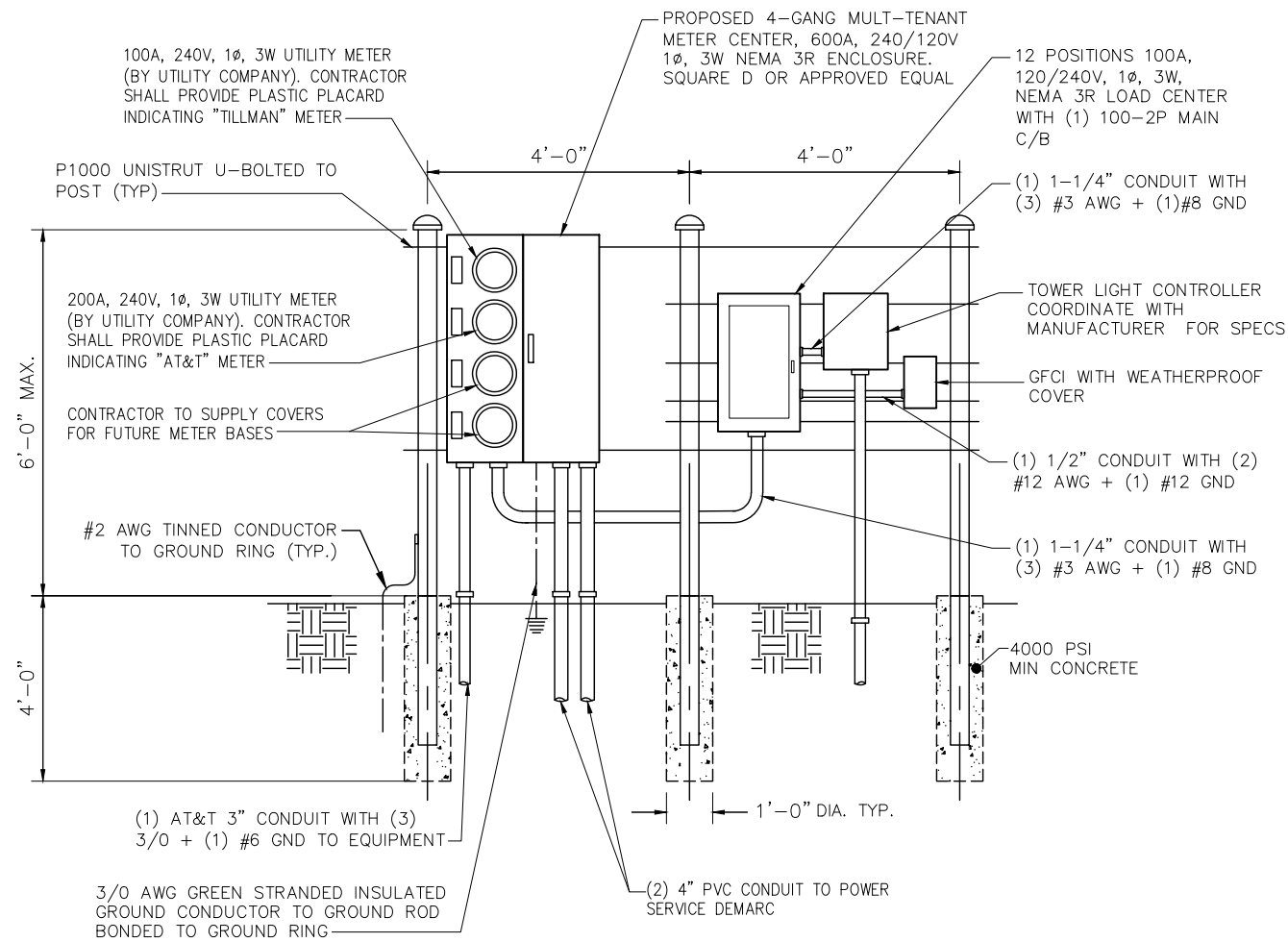
Engineer Stamp

Drawing Title
GENERATOR DETAILS

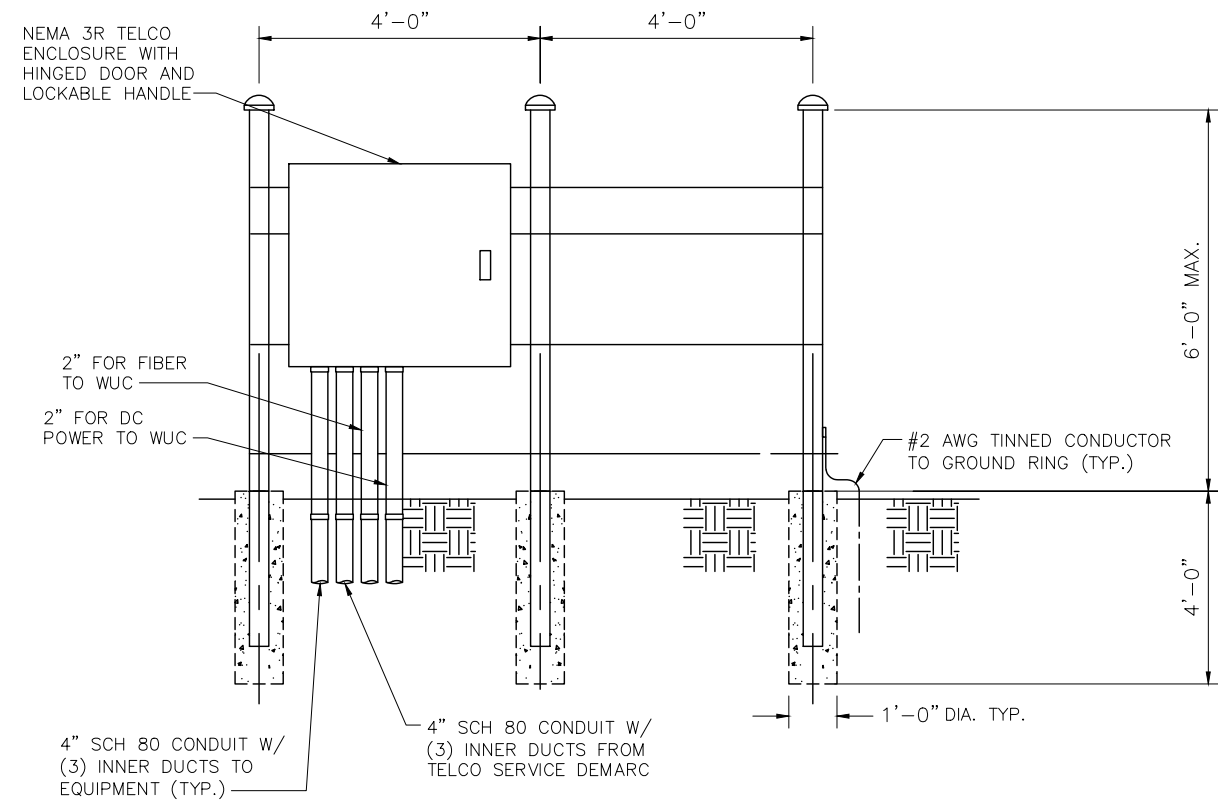
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Drawing Number
C7



FRONT



BACK

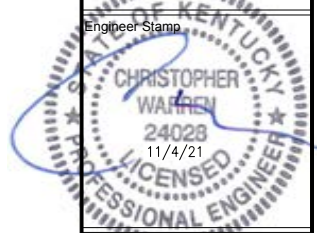
1 UTILITY BACKBOARD H-FRAME DETAIL
-- NOT TO SCALE

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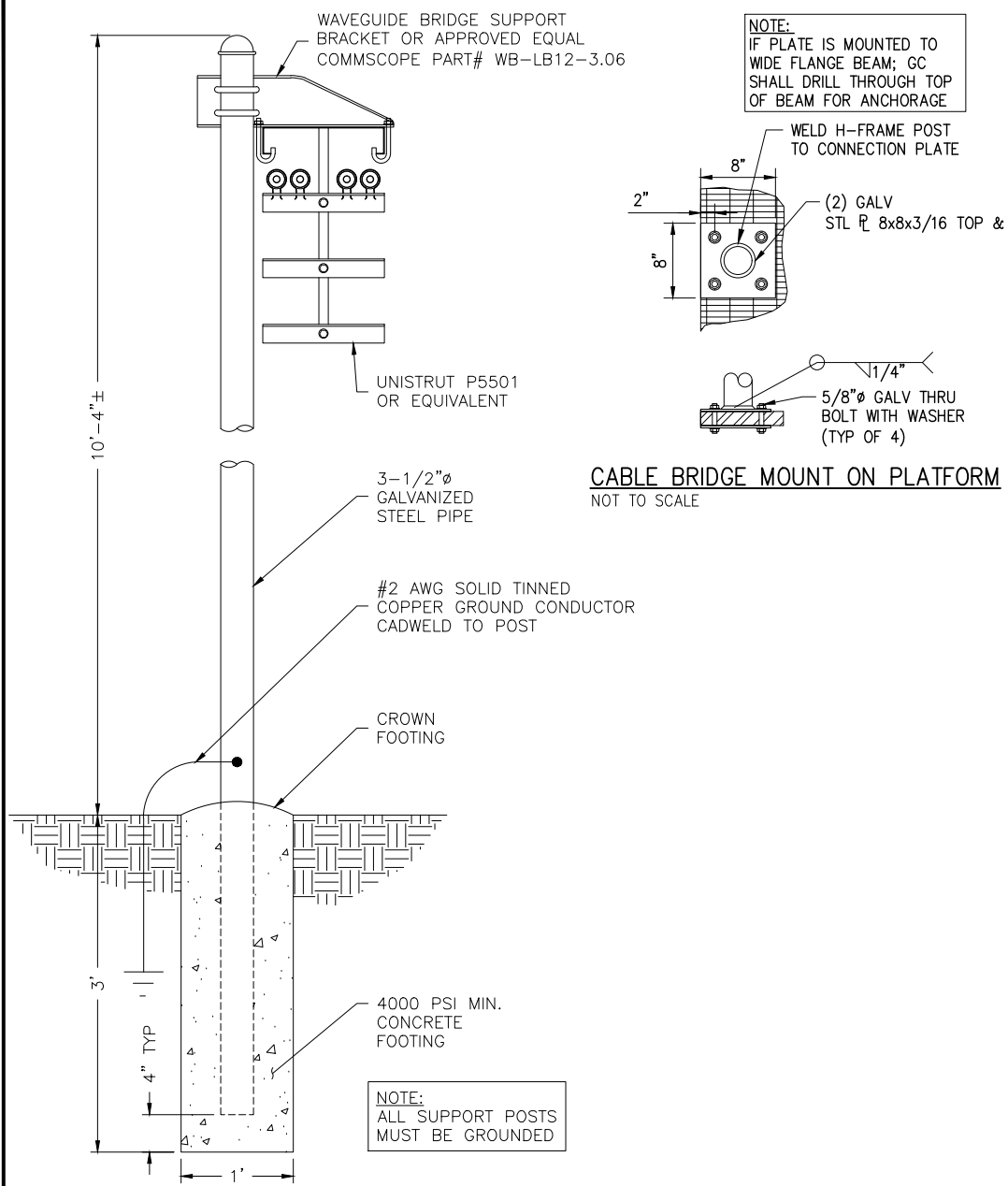


Drawing Title
UTILITY H-FRAME
DETAILS

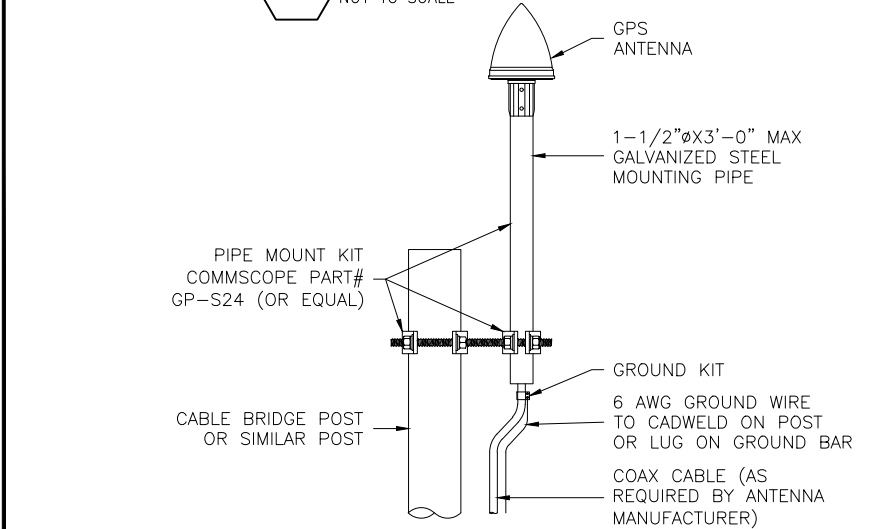
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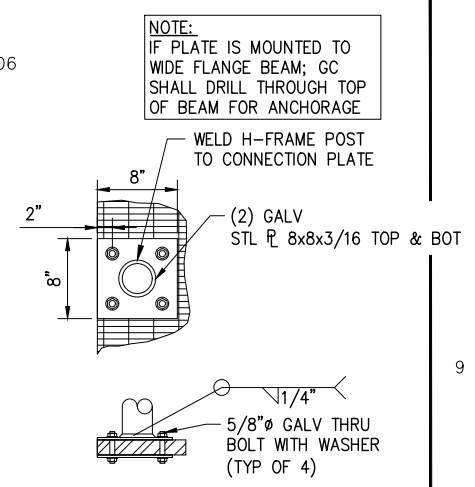
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C8



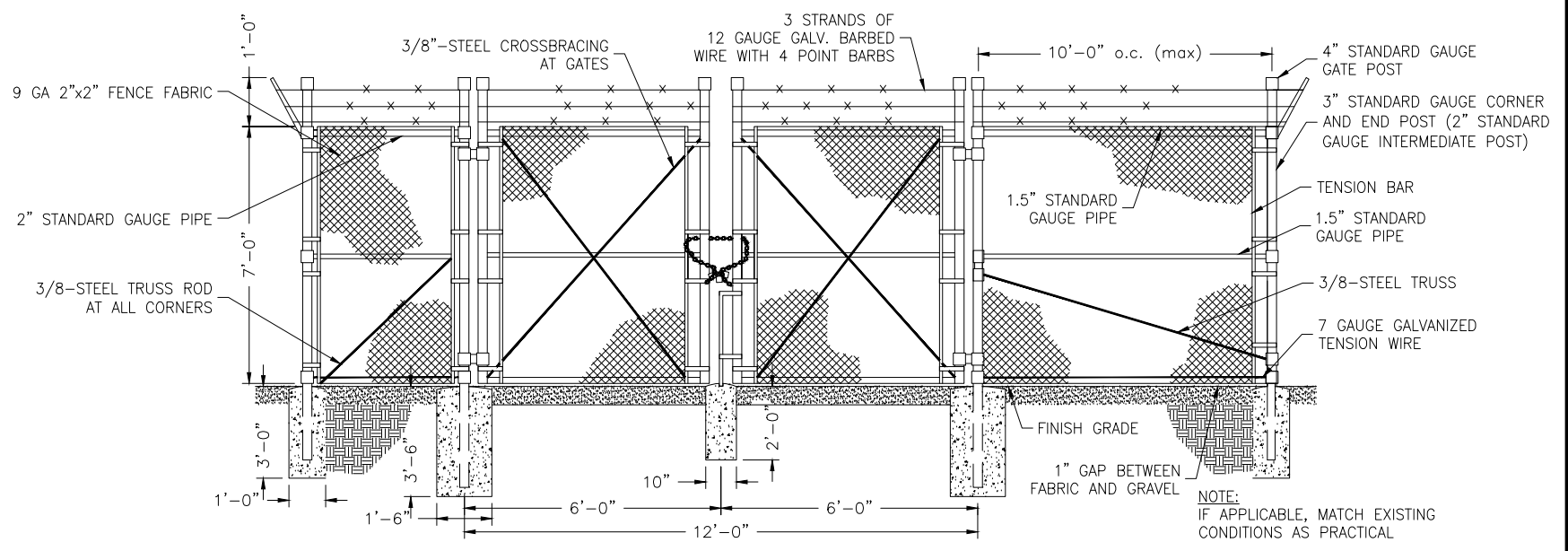
1 CABLE BRIDGE DETAIL
--- NOT TO SCALE



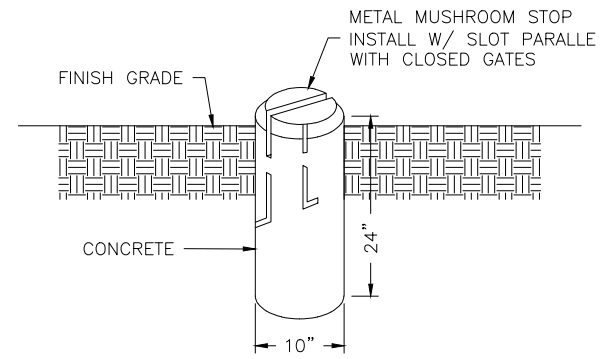
2 GPS ANTENNA MOUNTING DETAIL
--- NOT TO SCALE



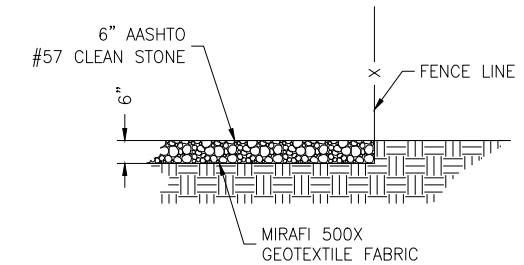
CABLE BRIDGE MOUNT ON PLATFORM
NOT TO SCALE



3 TYPICAL FENCE AND GATE DETAIL
--- NOT TO SCALE



4 MUSHROOM STOP DETAIL
--- NOT TO SCALE



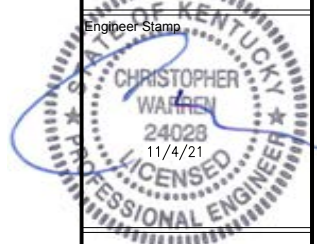
5 GRAVEL COMPOUND DETAIL
--- NOT TO SCALE



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Drawing Title
CONSTRUCTION
DETAILS

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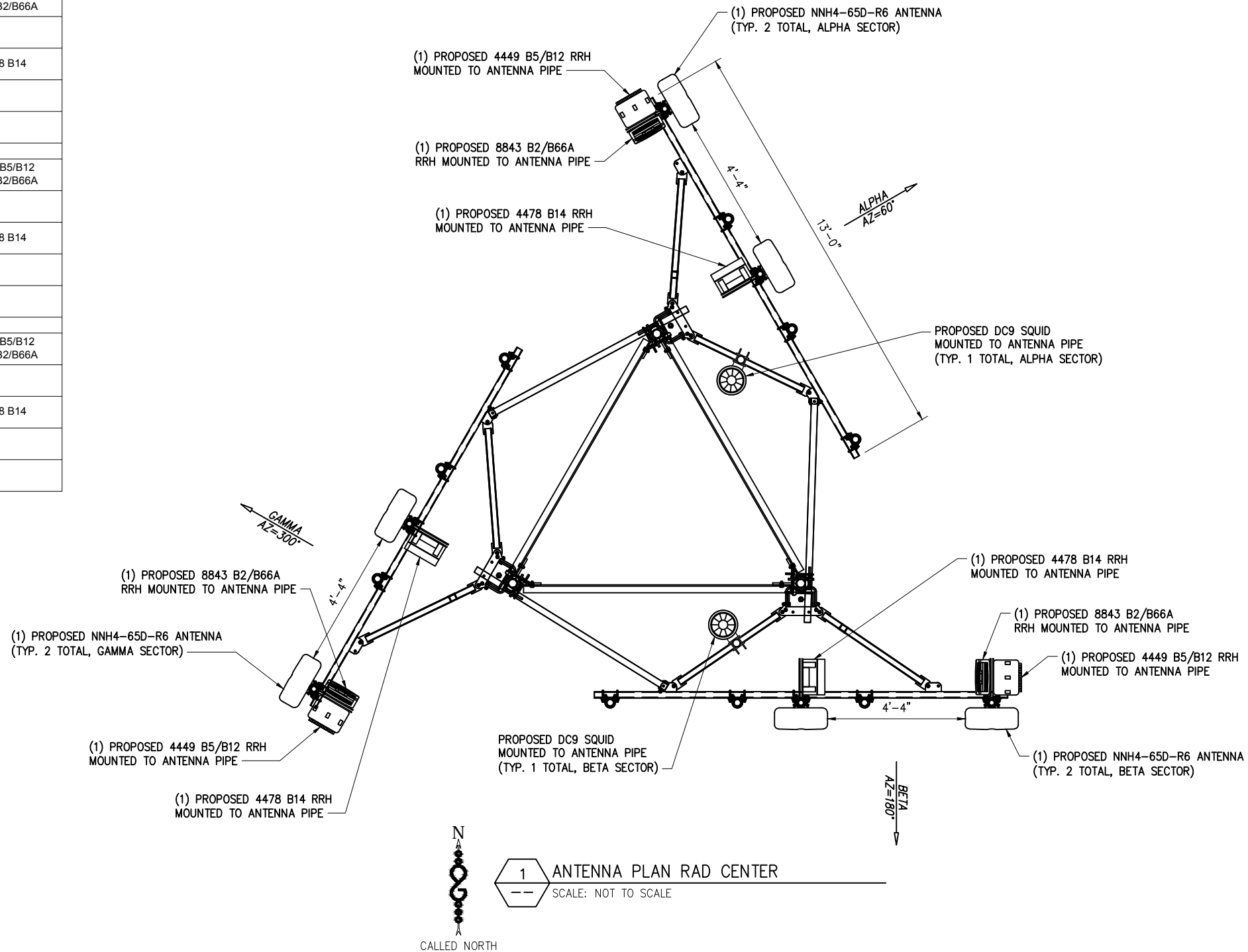
Drawing Number
C9

ANTENNA AND RRH SCHEDULE

SECTOR	ANTENNA MODEL	TECHNOLOGY	AZIMUTH	ANTENNA HEIGHT	RRH MODEL
ALPHA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	60°	245±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	60°	245±	(1) 4478 B14
	-	-	-	-	-
BETA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	180°	245±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	180°	245±	(1) 4478 B14
	-	-	-	-	-
GAMMA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	300°	245±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	300°	245±	(1) 4478 B14
	-	-	-	-	-

CABLE COUNT

QUANTITY	CABLE TYPE
6	6 CONDUCTOR (3 PR) 3/4" DC CABLE
2	36 FIBER (18 PR) 10MM FIBER

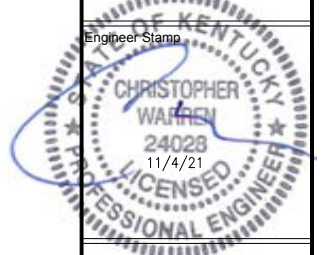


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Drawing Title
ANTENNA PLAN

Drawing Scale:
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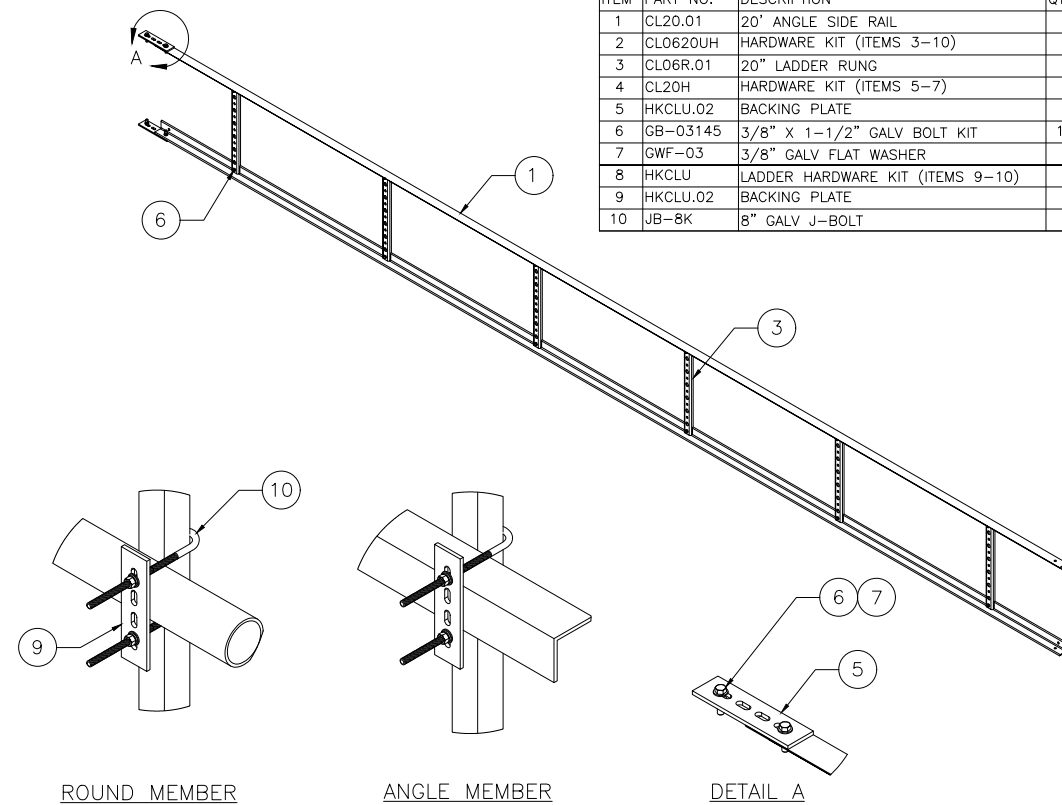
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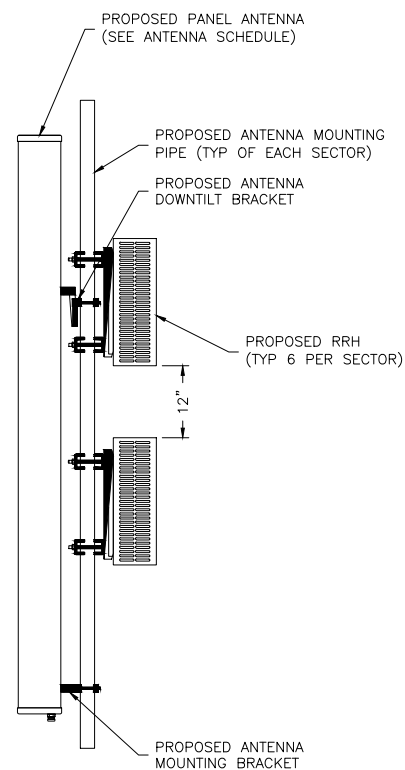
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Drawing Number
C10

ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	CL20.01	20' ANGLE SIDE RAIL	2	49.38 LBS
2	CL0620UH	HARDWARE KIT (ITEMS 3-10)	1	-
3	CL06R.01	20" LADDER RUNG	6	1.69 LBS
4	CL20H	HARDWARE KIT (ITEMS 5-7)	1	-
5	HKCLU.02	BACKING PLATE	2	0.95 LBS
6	GB-03145	3/8" X 1-1/2" GALV BOLT KIT	16	0.07 LBS
7	GW-03	3/8" GALV FLAT WASHER	4	0.01 LBS
8	HKCLU	LADDER HARDWARE KIT (ITEMS 9-10)	2	-
9	HKCLU.02	BACKING PLATE	4	0.95 LBS
10	JB-8K	8" GALV J-BOLT	8	0.36 LBS

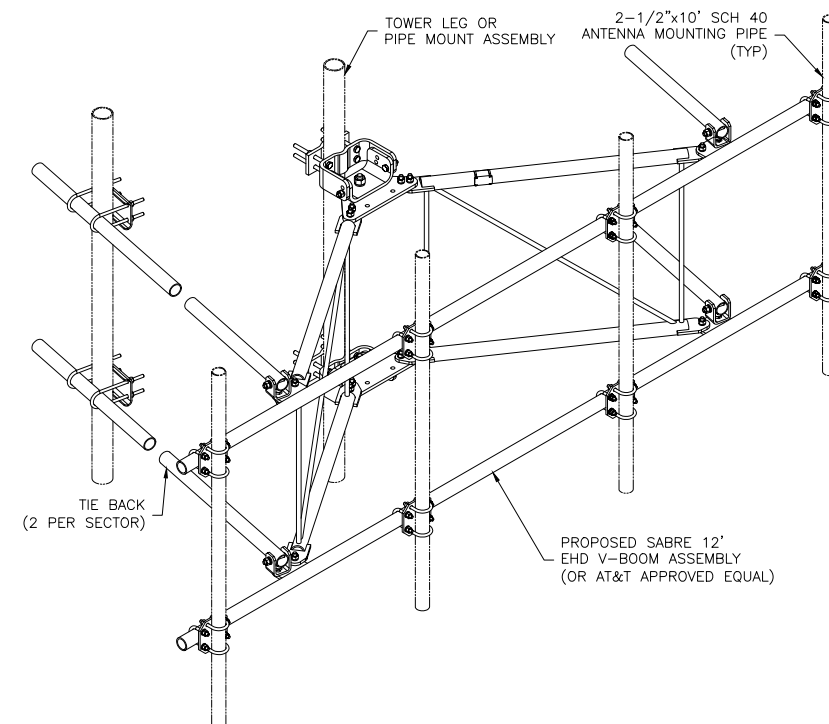


1 ANDREW CABLE LADDER CL-0620-U DETAIL
--- NOT TO SCALE



2 RRH MOUNTING DETAIL
--- NOT TO SCALE

APPROVED AT&T MOUNTS	
MANUFACTURER	MODEL
ADVANCED TOWER	HEAVY WLL-3-NP
BETTER METAL	BVM-U12K-WLL-3
COMMSCOPE	SFG2CT-12-B3
CONNECT-IT WIRELESS	3-PVFM12-3-B
KENWOOD TELECOM	T1672KT12-3S
NEWAVE	ATV-312-3
ROHN PRODUCTS	(3) KY2016A12 (3) KY1995A
SABRE	C10857007C
VALMONT	VFA10-HD3T5NP

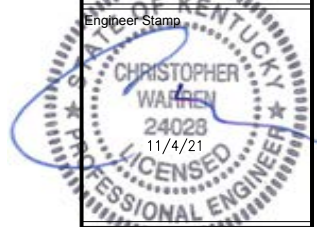


3 ANTENNA MOUNT FRAME DETAIL
--- NOT TO SCALE

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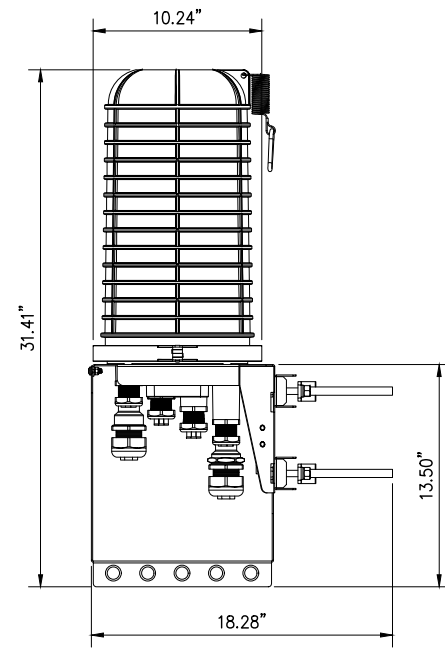


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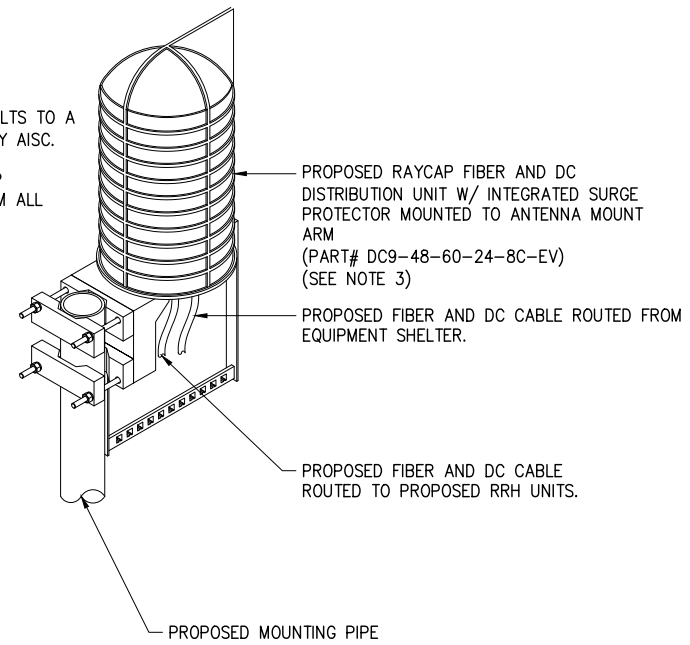
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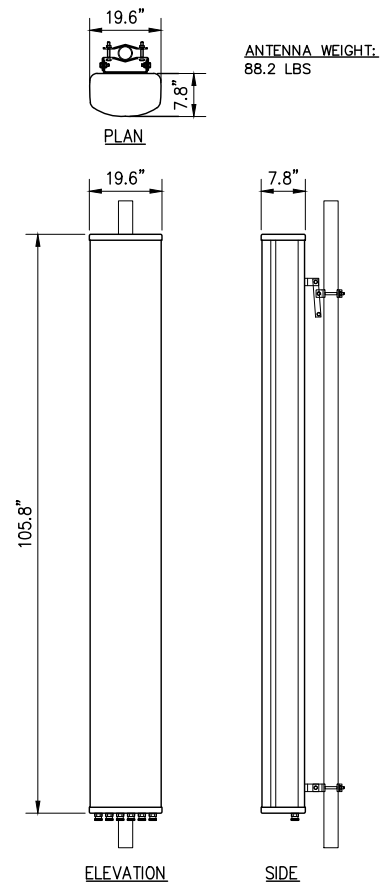
1 RAYCAP DC9-48-60-24-8C-EV DETAIL
-- NOT TO SCALE

NOTES:

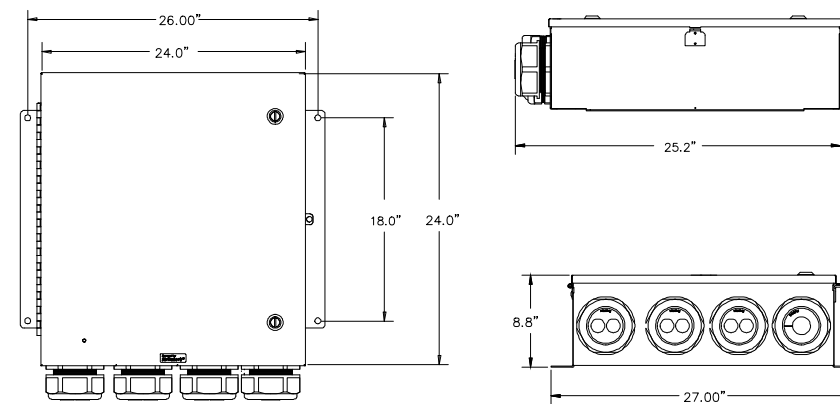
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRHS.



2 RAYCAP MOUNTING DETAIL
-- NOT TO SCALE



3 NNH4-65D-R6 ANTENNA DETAILS
-- NOT TO SCALE



DC SURGE PROTECTION SOLUTIONS DC12-48-60-0-25E
DIMENSIONS, HxWxD: 24.00"x24.00"x8.00"
VOLTAGE PROTECTION RATING (VPR): 400V
VOLTAGE PROTECTION RATING [Up]: 410V
TOTAL WEIGHT: 56.3 lbs

4 DC12 SURGE PROTECTION DETAILS
-- NOT TO SCALE

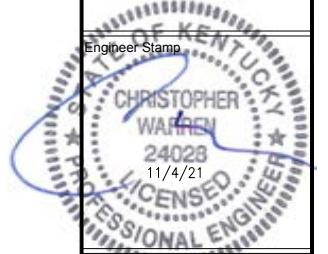


0	ISSUED FOR CONSTRUCTION	CES	11/03/21
B	ISSUED FOR REVIEW	CES	10/27/21
A	ISSUED FOR REVIEW	CES	09/28/21

Drawn: CES Date: 09/28/21
Designed: CES Date: 09/28/21
Checked: C/W Date: 09/28/21

Project Number
2136-Z0001-C

Project Title
15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079



Drawing Title
DC6 & ANTENNA
SPECIFICATIONS

Drawing Scale:
AS NOTED

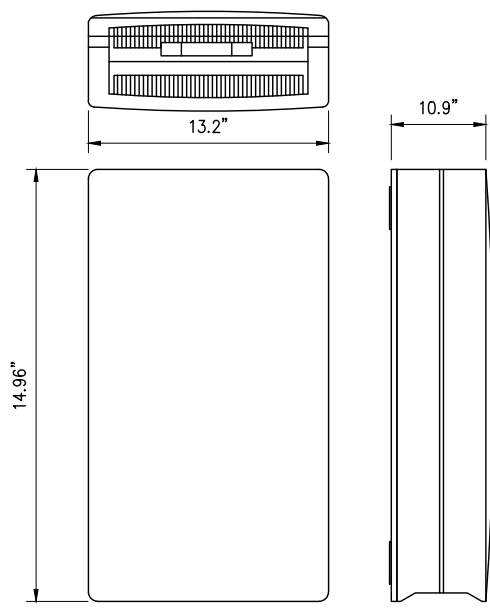
Date:
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Drawing Number
C11

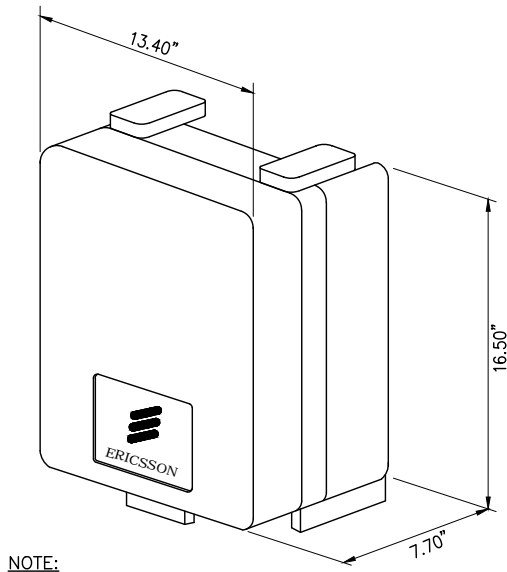
ERICSSON RRUS-8843 B2/B66A
 - DIMENSIONS (H x W x D):
 14.96" x 13.2" x 10.9" (INCLUDES SUNSHIELD)
 - WEIGHT: 72.0 LBS
 - B2: TX=1930-1990 MHz
 RX=1850-1910 MHz
 - B66: TX=2110-2180 MHz
 RX=1710-1780 MHz
 - CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS.



NOTE:
 RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

1 ERICSSON RRUS 8843 B2/B66A
 -- NOT TO SCALE

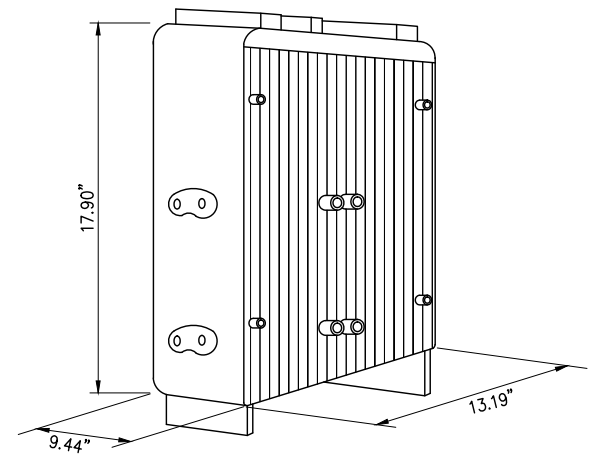
ERICSSON RRUS-4478 B14
 - DIMENSIONS (H x W x D):
 16.50" x 13.4" x 7.7" (INCLUDES SUNSHIELD)
 - WEIGHT: 59.9 LBS
 - TX=869-894 MHz
 RX=824-849 MHz
 - CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS.



NOTE:
 RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

2 ERICSSON RRUS 4478 B14
 -- NOT TO SCALE

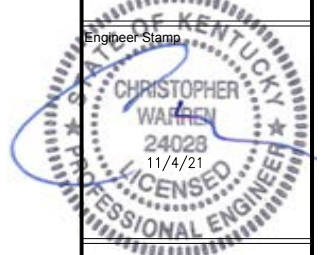
ERICSSON RRUS-4449 B5/B12
 - DIMENSIONS (H x W x D):
 17.90" x 13.19" x 9.44" (INCLUDES SUNSHIELD)
 - WEIGHT: 71.0 LBS
 - LTE: MAX 6 CARRIERS PER PORT (DL)
 MAX 6 CARRIERS PER PORT (UL)
 - CPRI SUPPORT- 2.5/4.9/9.8/10.1 GBPS.



NOTE:
 RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

3 ERICSSON RRUS 4449 B5/B12
 -- NOT TO SCALE

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15403957			
TI-OPP-17997			
SEDALIA			
230 STATE ROUTE 381			
SEDALIA, KY 42079			



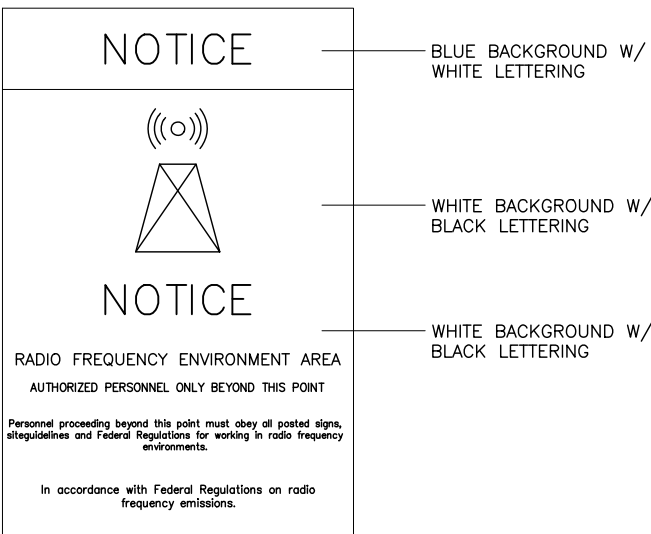
Drawing Title
 RRU
 DETAILS

Drawing Scale:
 AS NOTED
 Date:
 09/28/21

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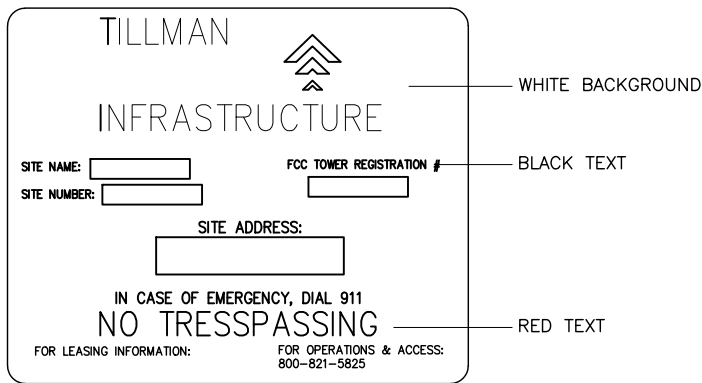
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C12



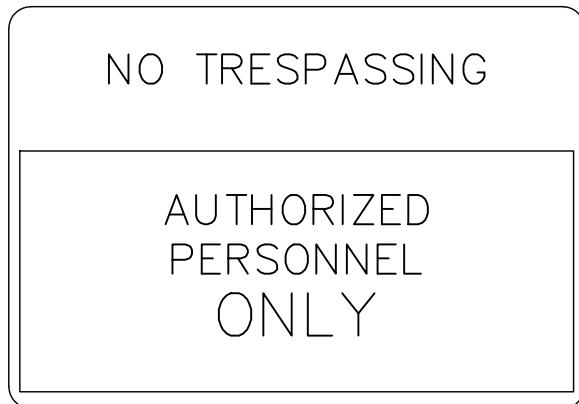
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MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

1 NOTICE-RF SIGN (BLUE)
-- NOT TO SCALE



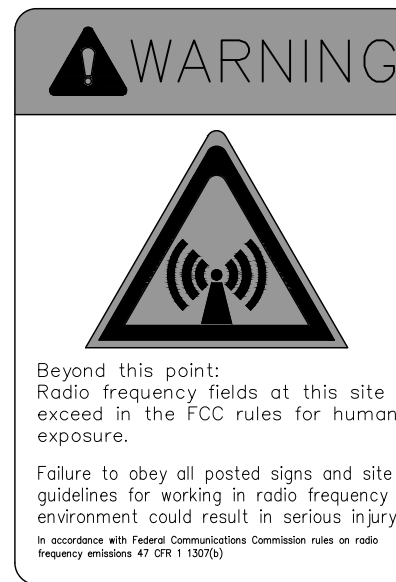
24"x30"
WHITE BACKGROUND, RED/BLACK LETTERING
QUANTITY: 1 OR 2

2 PROPERTY OF TILLMAN INFRASTRUCTURE
-- NOT TO SCALE



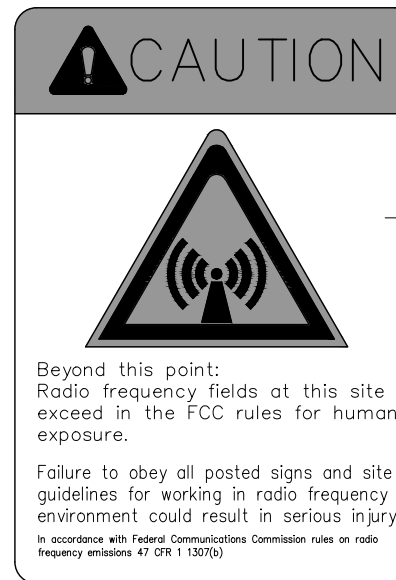
12"x18" .040
ALUMINUM

4 NO TRESPASSING SIGN
-- NOT TO SCALE



12"x18" DIGITAL PRINT
MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

3 WARNING-RF SIGN
-- NOT TO SCALE



12"x18" DIGITAL PRINT
MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

5 CAUTION-RF SIGN
-- NOT TO SCALE

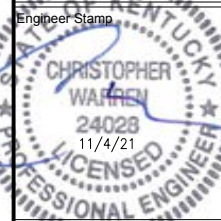
SIGNAGE NOTES:

- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE HOG RINGS (FENCE) OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METALS AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- ADDITIONAL E911 ADDRESS AND FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
- CARRIER SITE # \$ EMERGENCY CONTACT SIGNS SHALL BE MOUNTED ON THE EQUIPMENT CABINET WITH PERMANENT SET ADHESIVE. TWO SIDED TAPE SHALL BE UTILIZED AT EACH CORNER OF THE BACKSIDE TO AVOID PLACEMENT UNTIL THE ADHESIVE SETS.

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230 STATE ROUTE 381
SEDALIA, KY 42079



Drawing Title
SIGNAGE DETAILS

Drawing Scale:
AS NOTED
Date:
09/28/21
CD

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Drawing Number
C13



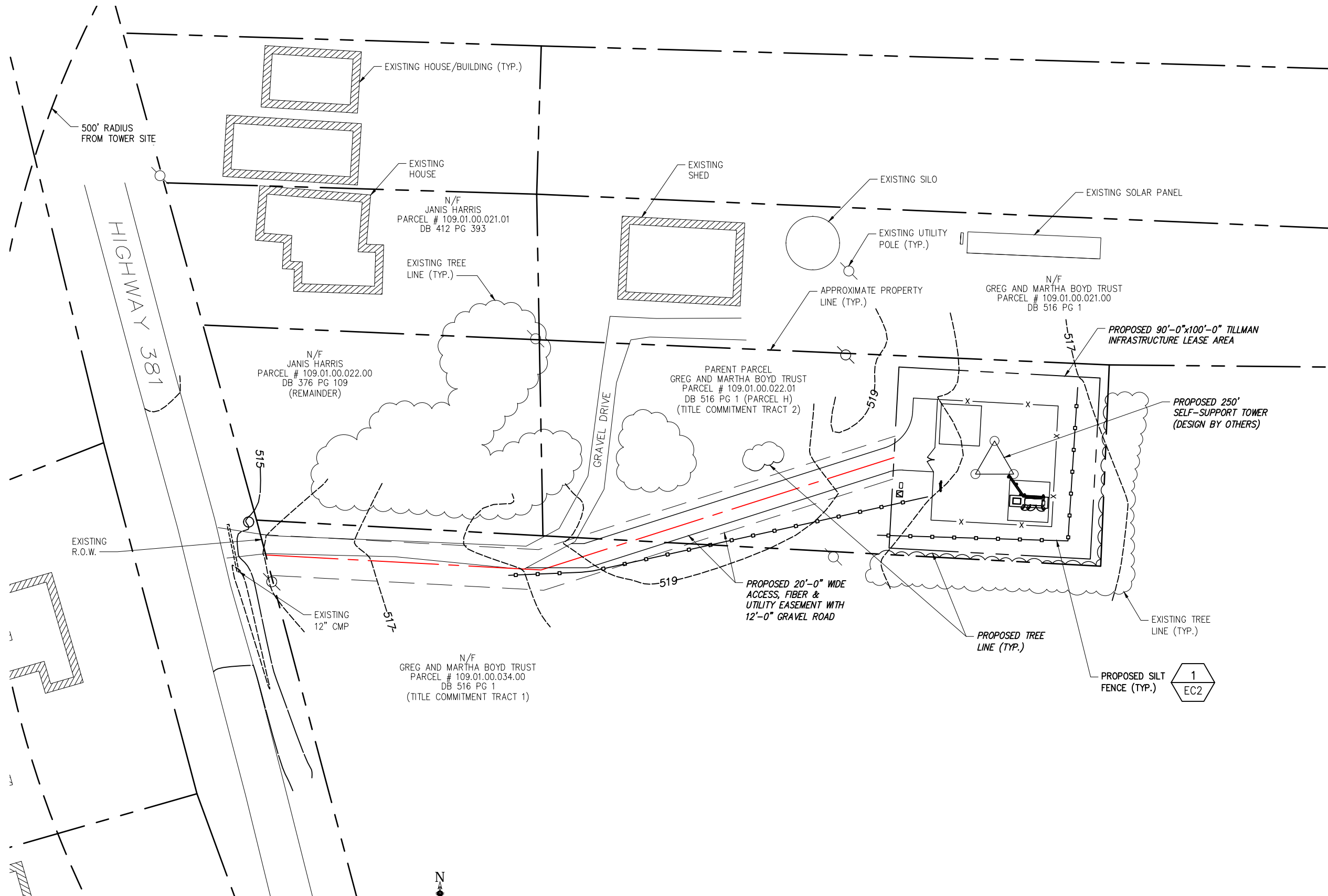
8372 E. BROAD ST.
REYNOLDSBURG, OH 43068



152 W. 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677



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MARIETTA, GA 30062
Office # (678) 444-4463

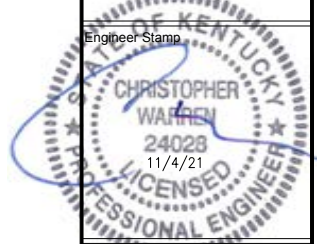


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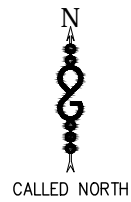
Drawing Title
GRADING, EROSION
& SEDIMENT
CONTROL PLAN

Drawing Scale:
AS NOTED
Date:
09/28/21
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Drawing Number
EC1

1 GRADING, EROSION & SEDIMENT CONTROL PLAN
SCALE: 12.5' 0 12.5' 25' 50'
(IN FEET)
SCALE: 11"x17" SHEET 1" = 50'-0"
SCALE: 22"x34" SHEET 1" = 25'-0"



GRADING & EXCAVATING NOTES:

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
- USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND
-BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
-BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
- REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
- DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
- ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDDY VEHICLES LEAVING THE SITE.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

- THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

SEEDING GUIDELINES:

FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOAMED AND SEED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4". RECOMMENDED SEEDING DATES FOR PERMANENT VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH OCTOBER 15. TEMPORARY VEGETATIVE MEASURES SHALL CONSIST OF AN ANNUAL OR PERENNIAL RYE GRASS WITH RECOMMENDED SEEDING DATES BEING FROM JUNE 1 THROUGH AUGUST 15 AND SEPTEMBER 30 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER MATERIAL

BEFORE SPREADING COVER MATERIAL OVER THE DESIGNATED AREA, OBTAIN A REPRESENTATIVE SOIL SAMPLE AND SUBMIT TO A REPUTABLE SOIL TESTING LABORATORY FOR CHEMICAL AND PHYSICAL ANALYSIS. THE PRELIMINARY TEST IS NECESSARY TO DETERMINE THE REQUIRED INORGANIC AND/OR ORGANIC AMENDMENTS THAT ARE NEEDED TO ASSIST IN ESTABLISHING THE SEED MIXTURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS pH AND FERTILIZATION NEEDS. THESE RESULTS SHALL BE KEPT ON-SITE BY THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE COUNTY.

SEED BED PREPARATION

PROPOSED COVER MATERIAL SHOULD BE SPREAD EVENLY OVER THE SITE AREA IN A MINIMUM 4" LIFT VIA BULLDOZER/BUCKET LOADER. USING THE INFORMATION FROM THE SOIL ANALYSIS, CAREFULLY CALCULATE THE QUANTITIES OF LIMESTONE AND PRE-PLANT FERTILIZER NEEDED PRIOR TO APPLYING. PRE-PLANT AMENDMENTS CAN BE APPLIED WITH A BROADCAST AND/OR DROP SEEDER AND INCORPORATED WITH AN OFFSET DISK, YORK RAKE, AND/OR HAND RAKE. AFTER INCORPORATION THE PRE-PLANT SOIL AMENDMENTS, THE SEED BED SHOULD BE SMOOTH AND FIRM PRIOR TO SEEDING. THE FOLLOWING SEED MIXTURES SHALL BE USED AS NOTED:

SEED MIXTURE

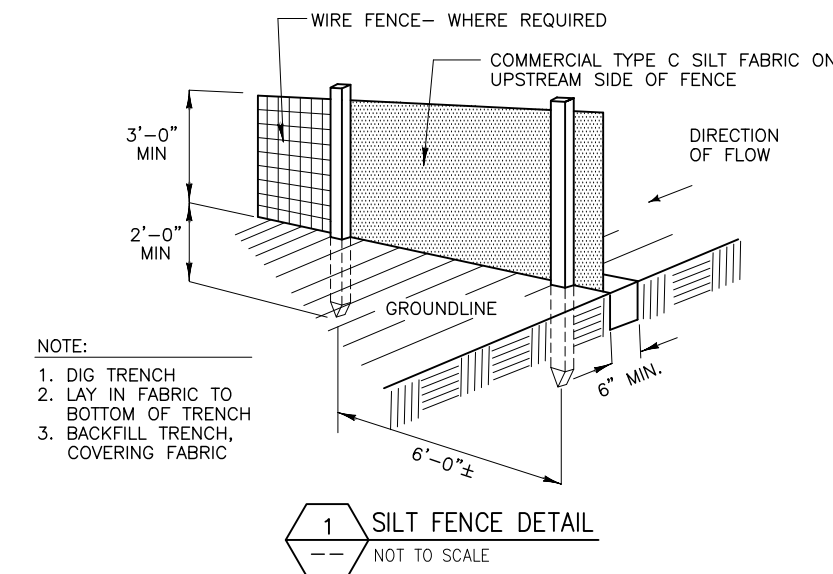
SPECIES/VARIETY	LBS/ACRE
CREeping RED FESCUE	20
KENTUCKY BLUEGRASS	20
PERENNIAL RYEGRASS	5

SEED TIME AND METHOD

THE PREFERRED TIME FOR SEEDING THE COOL SEASON MIXTURE IS LATE SUMMER. SOIL AND AIR TEMPERATURES ARE IDEAL FOR SEED GERMINATION AND SEEDING GROWTH. WEED COMPETITION IS REDUCED BECAUSE SEEDS OF MANY WEED SPECIES GERMINATE EARLIER IN THE GROWING SEASON. ADDITIONALLY, HERBICIDE USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

MULCHING

NEWLY SEEDING AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT-BOUND AGROCHEMICALS AND SOIL EROSION. IF MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS, APPLY GOOD QUALITY STRAW OR HAY AT A RATE OF 2 BALES/1000 SQ. FT. OTHER COMMERCIALY AVAILABLE MULCHES CAN BE USED.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY POSTS: STEEL EITHER T OR U TO FENCE POSTS WITH WIRE TIES OR STAPLES. TYPE.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH: FILTER X, MIRAFI 100X' STABILINKA T140N OR APPROVED EQUAL.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. PREFABRICATED UNIT: GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
- ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST.

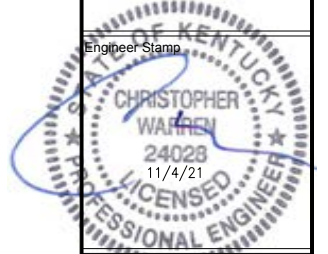


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Project Number: 2136-20001-C

Project Title: 15403957 TI-OPP-17997 SEDALIA 230 STATE ROUTE 381 SEDALIA, KY 42079



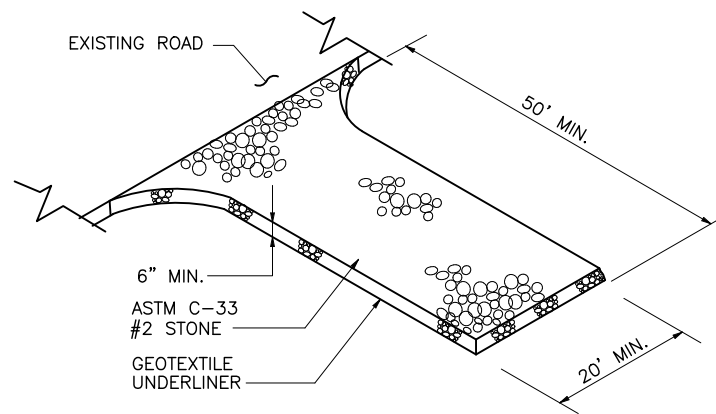
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Drawing Scale: AS NOTED
Date: 09/28/21
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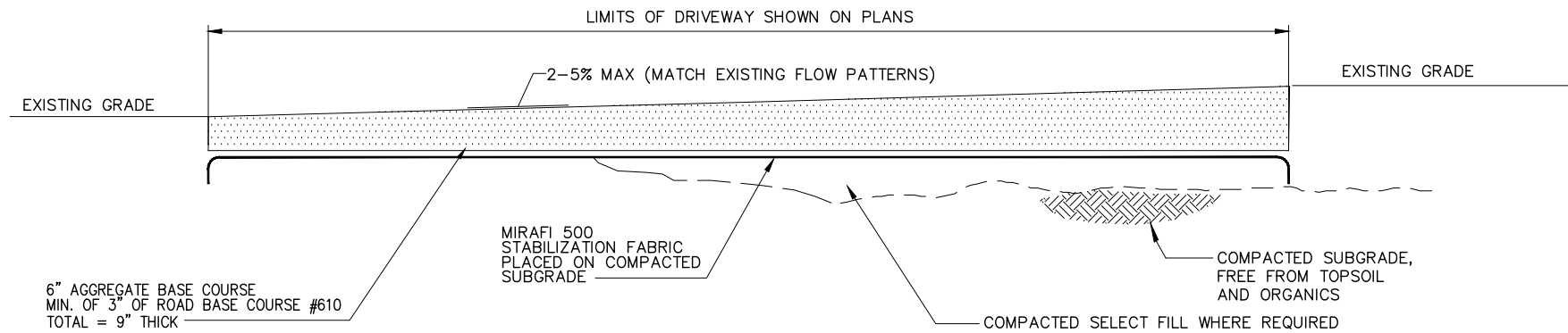
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Drawing Number: EC2

NOTES:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
-AGGREGATE IS BASED ON STANDARD AASHTO. ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.



1 CONSTRUCTION EXIT DETAIL
--- NOT TO SCALE



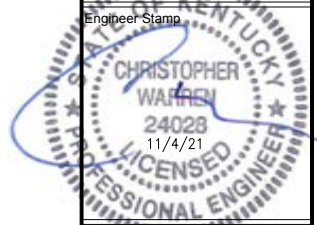
2 DRIVEWAY SECTION (GRAVEL)
--- NOT TO SCALE

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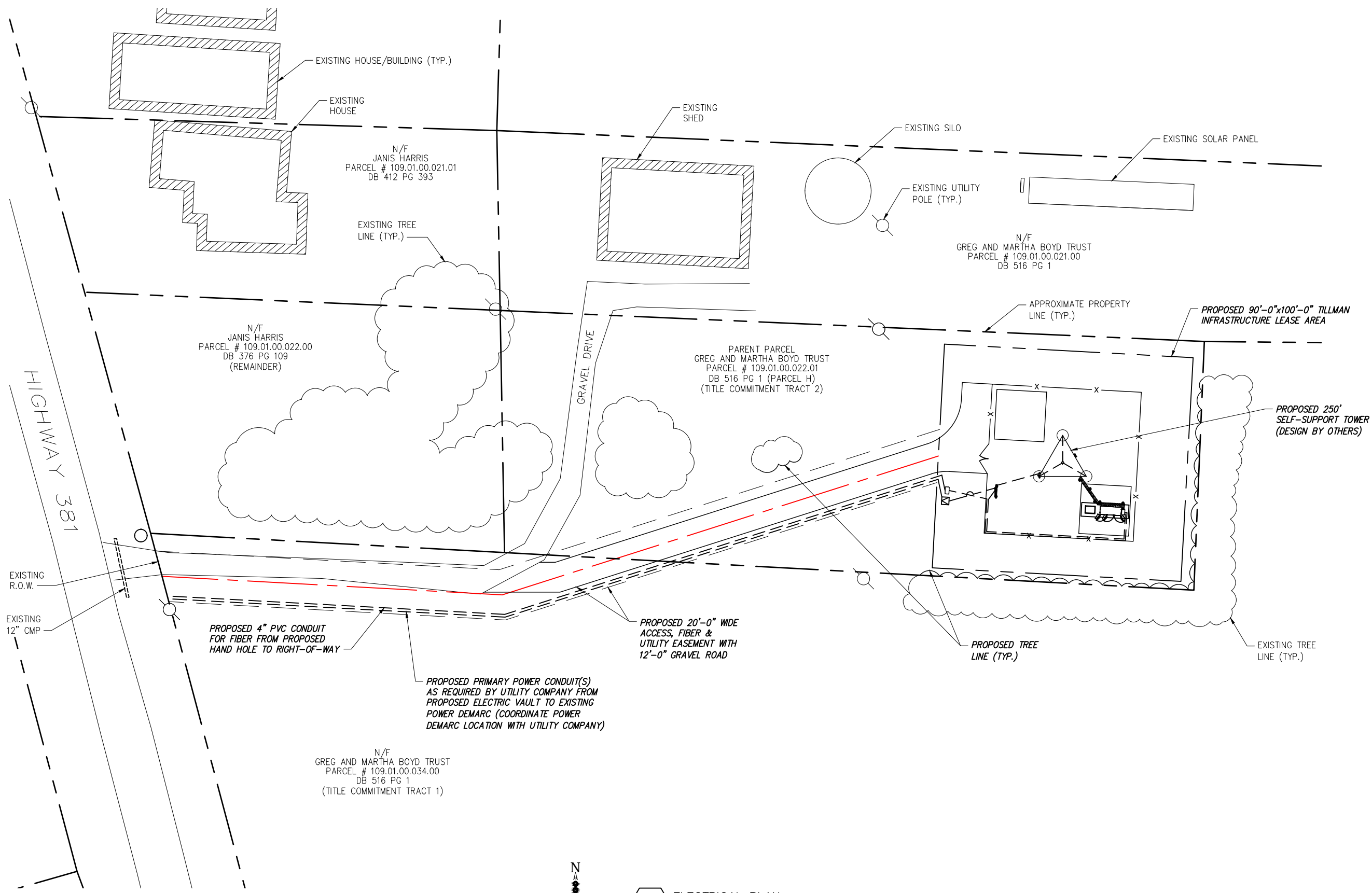


Drawing Title
CIVIL DETAILS

Drawing Scale:
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Drawing Number
EC3



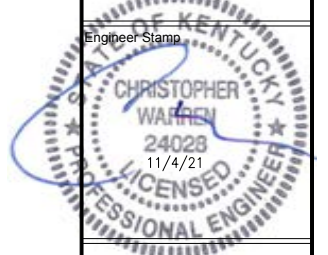
1 ELECTRICAL PLAN
 SCALE: 10' 0 10' 20' 40'
 (IN FEET)
 SCALE: 11"x17" SHEET 1" = 40'-0"
 SCALE: 22"x34" SHEET 1" = 20'-0"

No.	Submittal / Revision	App'd	Date
0	ISSUED FOR CONSTRUCTION	CES	11/03/21
B	ISSUED FOR REVIEW	CES	10/27/21
A	ISSUED FOR REVIEW	CES	09/28/21

Drawn: CES Date: 09/28/21
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 Checked: C/W Date: 09/28/21

Project Number
 2136-Z0001-C

Project Title
 15403957
 TI-OPP-17997
 SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079



Drawing Title
 ELECTRICAL PLAN

Drawing Scale:
 AS NOTED
 Date:
 09/28/21

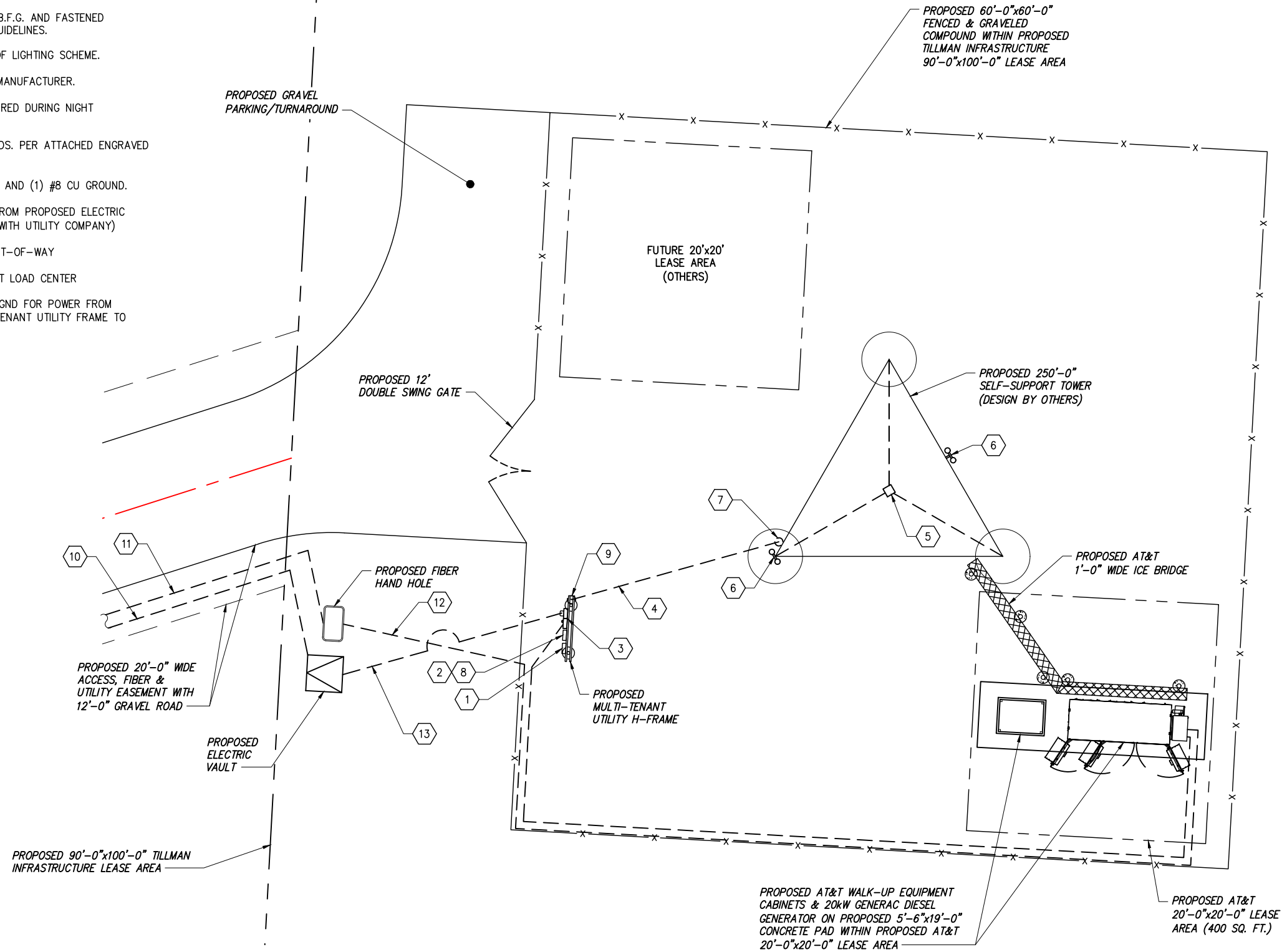
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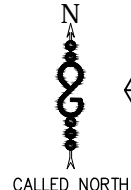
Drawing Number
E1

TILLMAN ELECTRICAL REFERENCE NOTES

- 1 PROPOSED TOWER LIGHT CONTROLLER. COORDINATE WITH TOWER MANUFACTURER FOR SPECIFICS.
- 2 PROPOSED 100A-2P MAIN CIRCUIT BREAKER FOR TILLMAN INFRASTRUCTURE.
- 3 PROPOSED 125A RATED, 120/240V-1Ø-3W, NEMA-3R, LOAD CENTER FOR TILLMAN INFRASTRUCTURE WITH (1) 100A-2P MAIN CIRCUIT BREAKER & 12 SPACE LOAD CENTER.
- 4 PROPOSED TOWER LIGHTING CONTROLLER CORD IN 2" SCH. 40 PVC CONDUIT B.F.G. AND FASTENED SECURELY TO TOWER A.F.G. COORDINATE WITH TOWER CONTROLLER MANUF. GUIDELINES.
- 5 PROPOSED JUNCTION BOX. TOTAL NUMBER OF JUNCTION BOXES DEPENDANT OF LIGHTING SCHEME.
- 6 PROPOSED RED DUAL OBSTRUCTION LIGHTS (DOL). COORDINATE WITH TOWER MANUFACTURER.
- 7 PROPOSED RED/WHITE MEDIUM INTENSITY BEACON LIGHT. WHITE DURING DAY, RED DURING NIGHT COORDINATE WITH TOWER MANUFACTURER.
- 8 PROPOSED 200A, 240V, 1Ø, 3W UTILITY METER SOCKET PER UTILITY STANDARDS. PER ATTACHED ENGRAVED NAME PLATE INDICATING "TILLMAN INFRASTRUCTURE".
- 9 PROPOSED 1-1/2" SCH. 40 PVC B.F.G. AND RMC A.F.G. WITH (3) #1 AWG CU AND (1) #8 CU GROUND.
- 10 PROPOSED PRIMARY POWER CONDUIT(S) AS REQUIRED BY UTILITY COMPANY FROM PROPOSED ELECTRIC VAULT TO EXISTING POWER DEMARC (COORDINATE POWER DEMARC LOCATION WITH UTILITY COMPANY)
- 11 PROPOSED 4" PVC CONDUIT FOR FIBER FROM PROPOSED HAND HOLE TO RIGHT-OF-WAY
- 12 PROPOSED 4" PVC CONDUIT FOR FIBER FROM PROPOSED HAND HOLE TO AT&T LOAD CENTER
- 13 PROPOSED 3" PVC CONDUIT WITH (3) 3/0 AWG CONDUCTORS & (1) #6 AWG GND FOR POWER FROM PROPOSED AT&T METER IN PROPOSED METER CENTER ON PROPOSED MULTI-TENANT UTILITY FRAME TO AT&T LOAD CENTER



NOTE:
UTILITY ROUTING/TERMINATION
POINTS ARE DIAGRAMMATIC &
MAY VARY FROM THAT SHOWN.



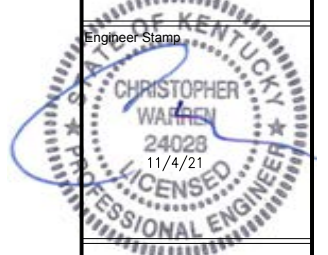
1 COMPOUND ELECTRICAL PLAN
SCALE: 2.5' 0 2.5' 5' 10'
(IN FEET)
SCALE: 11"x17" SHEET 1" = 10'-0"
SCALE: 22"x34" SHEET 1" = 5'-0"



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Project Number
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Drawing Title
COMPOUND
ELECTRICAL PLAN

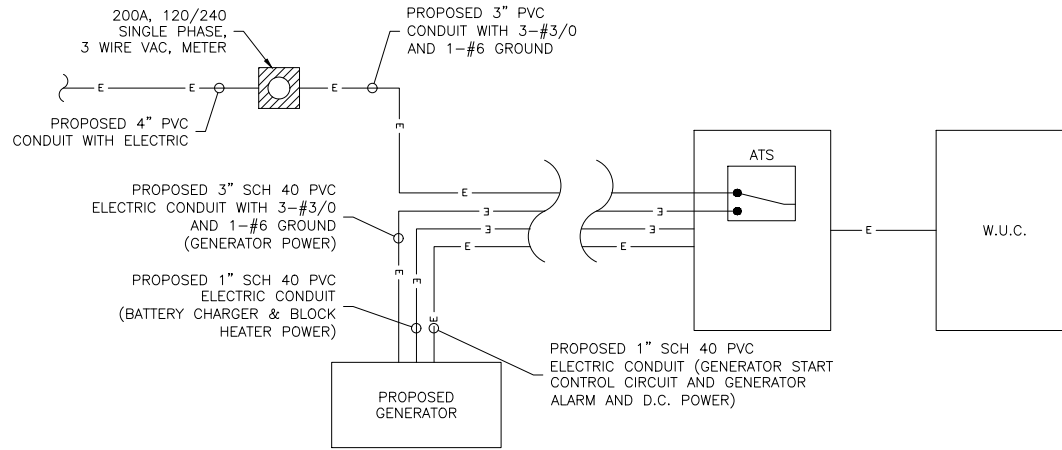
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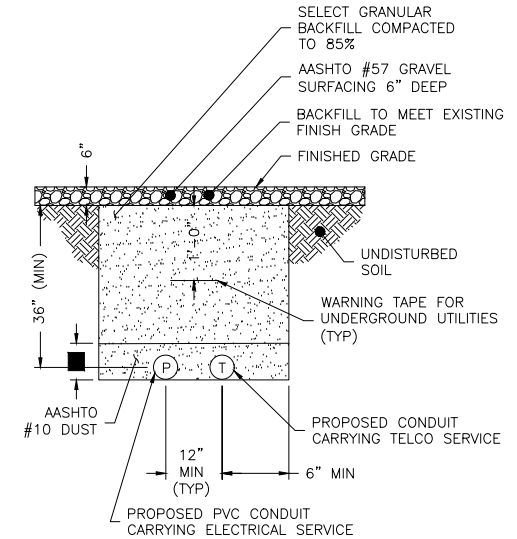
Drawing Number
E2

ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.



1 POWER DIAGRAM
NOT TO SCALE



NOTE:
1. EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES.

2 TYPICAL TRENCH DETAIL
NOT TO SCALE

INTEGRATED LOAD CENTER																										
LOAD			LOAD PER PHASE (VA)										LOAD													
DESCRIPTION	QTY.	UNIT V.A.	PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	WIRE COLOR	PHASE		UNIT V.A.	QTY.	DESCRIPTION				
			A	B														A	B							
1	RECTIFIER #1	1	1400	1400	BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #5	2			
3		1	1400	1400	RED												RED		1400	1400	1		4			
5	RECTIFIER #2	1	1400	1400	BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #6	6			
7		1	1400	1400	RED												RED		1400	1400	1		8			
9	RECTIFIER #3	1	1400	1400	BLK			8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #7	10			
12		1	1400	1400	RED												RED		1400	1400	1		12			
13	RECTIFIER #4	1	1400	1400	BLK	X		8	(10)	40		40	(10)	8		X	BLK	1400		1400	1	RECTIFIER #8	14			
15		1	1400	1400	RED												RED		1400	1400	1		16			
17					BLK												BLK						18			
19					RED	X		12	12	20							RED						20			
21	GFCI RECEPTACLES	2	180	360	BLK	X		12	(12)	20							BLK						22			
23	OPTIONAL FIBER BOX RECEPTACLE	1	180	180	RED	X		12	12	20							RED						24			
25	BATTERY CHARGER	1	240	240	BLK	X		12	12	20							BLK						26			
27	BLOCK HEATER	1	1500	1500	RED	X		12	12	20							RED						28			
29	OIL HEATER	1	180	180	BLK	X		12	12	20							BLK						30			
			SUBTOTAL CONTINUOUS	6,380	7,280											5,600	5,600	SUBTOTAL CONTINUOUS	TOTAL KVA CONTINUOUS x 1.25		31.075					
			SUBTOTAL NON-CONTINUOUS	-	-											-	-	SUBTOTAL NON-CONTINUOUS	TOTAL KVA NON-CONTINUOUS		-					
			SUBTOTAL SUB-PANEL	-	-											-	-	SUBTOTAL SUB-PANEL	TOTAL KVA SUB-PANEL		-					
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)																										
MAIN LUGS: N/A			MAIN BREAKER: 200 AMP													BRANCH BREAKER TYPE: SIEMENS - BL			TOTAL KVA		31.075					
VOLTAGE: 120/240			CYCLE: 60			PHASE: 1			WIRES: 3			MAIN COPPER BUS: 200 AMPS			NEUTRAL: 200 AMPS			TOTAL AMPS		129.48						



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REYNOLDSBURG, OH 43068

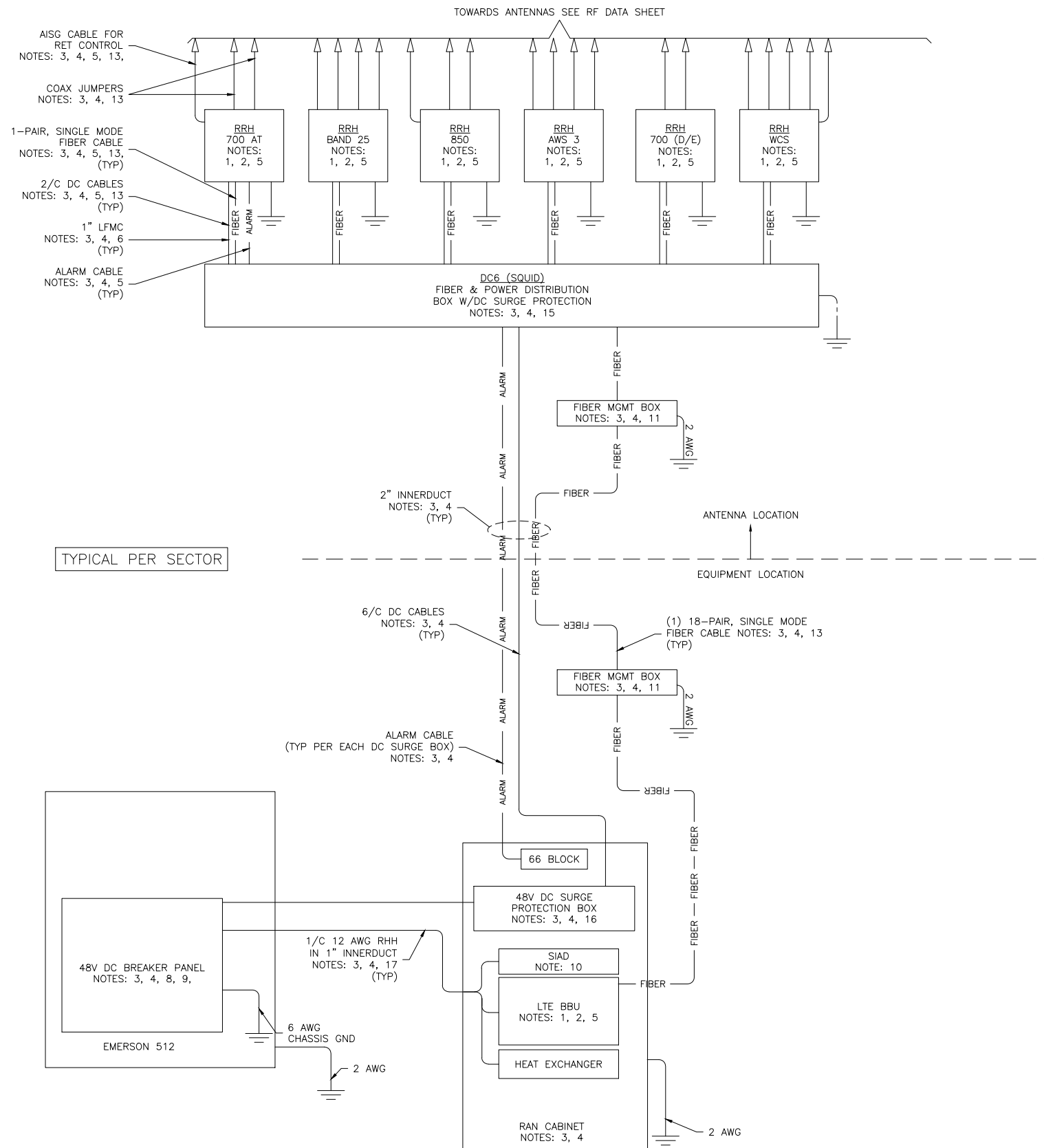


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Project Number: 2136-Z0001-C			
Project Title: 15403957 TI-OPP-17997 SEDALIA 230 STATE ROUTE 381 SEDALIA, KY 42079			
Engineer Stamp: CHRISTOPHER WARREN 24028 11/4/21 LICENSED PROFESSIONAL ENGINEER			
Drawing Title: ELECTRICAL PANEL SCHEDULE, DIAGRAM, & NOTES			
Drawing Scale: AS NOTED		CD	
Date: 09/28/21			
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NOTES:

1. FURNISHED BY OEM/AT&T.
2. INSTALLED BY OEM OR AS SCOPED BY MARKET.
3. FURNISHED BY OTHERS
4. INSTALLED BY OTHERS
5. FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET.
6. OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
7. DELETED.
8. BREAKERS SPECIFIED SOLD SEPERATELY.
9. BREAKERS TO BE TAGGED AND LOCKED OUT.
10. SIAD IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT OR AS SCOPED BY MARKET. INSTALL 10 AWG CHASSIS GROUND, PROVIDE (2) 10A BREAKERS FROM A 24V DC POWER SOURCE OR (2) 5A BREAKERS FROM A 48V DC POWER SOURCE AND CONNECT USING MFR POWER CABLE WITH SPECIAL CONNECTOR.
11. FIBER MANAGEMENT BOX IS J-SOURCE MODEL 12126FM4SEC.
12. LEC TO FURNISH AND INSTALL NETWORK INTERFACE DEVICE.
13. LEAVE COILED AND PROTECTED UNTIL TERMINATED.
14. SEE DETAIL 1408 FOR DC POWER CABLE SIZES.
15. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-18-8F.
16. POWER DISTRIBUTION W/DC SURGE PROTECTION BOX SHALL BE RAYCAP MODEL DC6-48-60-0-18.
17. SINGLE-CONDUCTOR DC POWER CABLES SHALL BE TELCOFLEX OR KS24194, COPPER, UL LISTED RHH NON-HALOGEN, LOW SMOKE WITH BRAIDED COVER, TYPE TC (1/0 AND LARGER). UNLESS OTHERWISE NOTED, STRANDING SHALL BE CLASS B (TYPE III) FOR CABLES SIZES 14, 12 & 10 AWG AND CLASS 1 (TYPE IV) FOR SIZES 8 AWG AND LARGER. CABLES SHALL BE COLOR CODED RED FOR +24V, BLUE FOR -48V AND GRAY FOR 24V AND 48V RETURN CONDUCTORS. MULTI-CONDUCTOR DC POWER CABLES SHALL COPPER, CLASS B STRANDED WITH FLAME RETARDANT PVC JACKET, TYPE TC, UL LISTED FOR 90°C DRY/ 75°C WET INSTALLATION.
18. 10A FUSE FOR HEAT EXCHANGER FURNISHED AND INSTALLED BY OTHERS.
19. DELETED.
20. GROUNDING WIRES SHALL BE COPPER, GREEN THHN/THWN UL LISTED FOR 90°C DRY/75°C WET INSTALLATION. MINIMUM SIZE IS 6 AWG UNLESS NOTED OTHERWISE.
21. RET CONTROL FROM THE RRH IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
22. DELETED.
23. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-0-1E.
24. FIBER MANAGEMENT BOX IS COMMSCOPE MODEL FB 18188.
25. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC12-48-60-0-25E.

1 TYPICAL DC/FIBER SYSTEM DIAGRAM
-- NOT TO SCALE

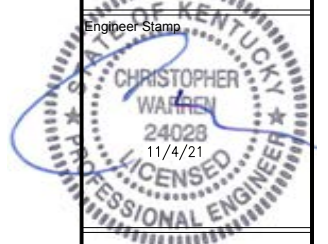


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Project Title
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TI-OPP-17997
SEDALIA**
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Drawing Title
**TYPICAL
DC/FIBER
SYSTEM DIAGRAM**

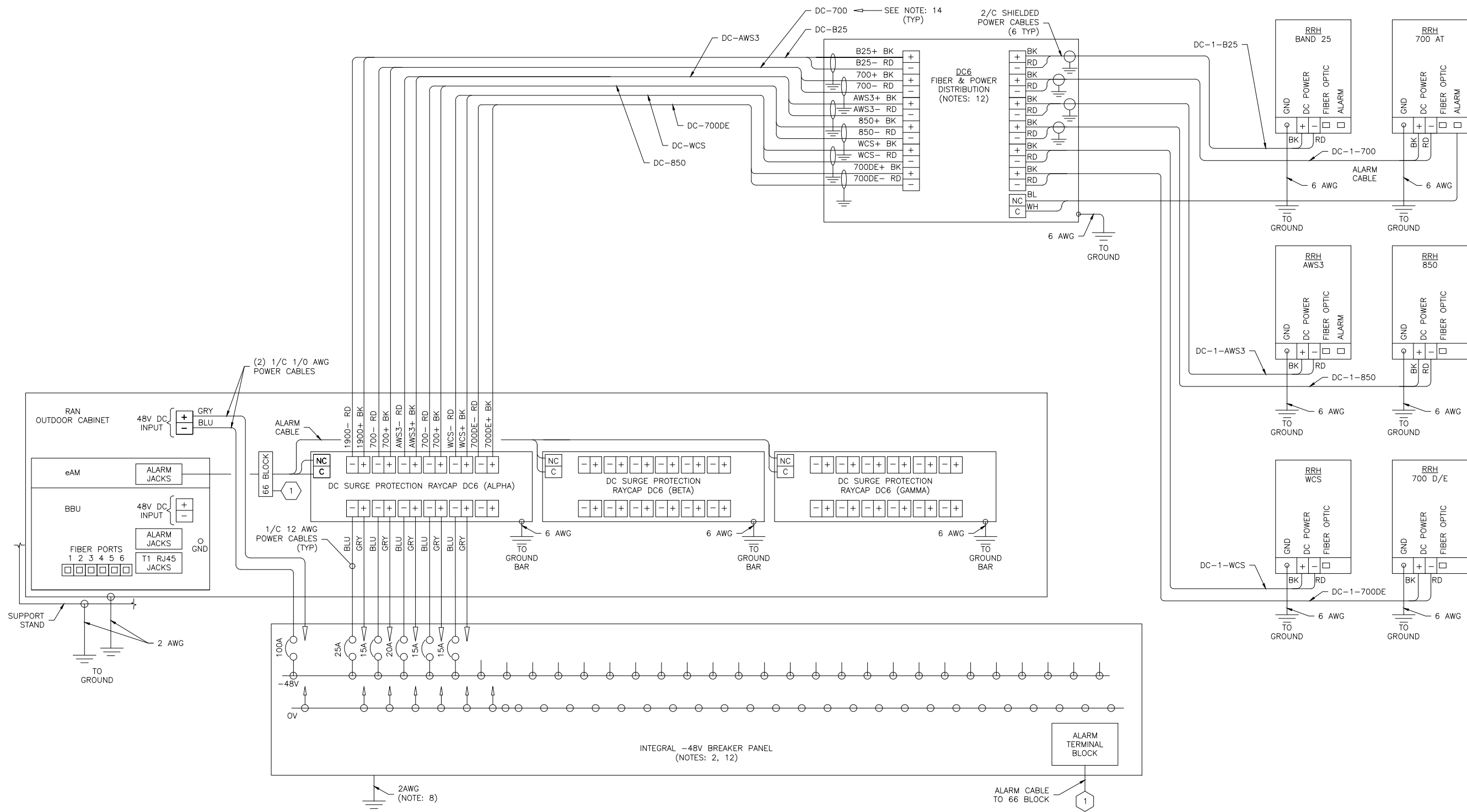
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E4



- NOTES**
- LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF-ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. A-AWS+.
 - INSTALL ON IN AUXILIARY EQUIPMENT CABINET.
 - CABLE TERMINALS FOR +24V INPUT FEED A, FEED B AND REFERENCE GROUND SHALL BE 2-HOLE: 3/8" ON 1" CENTER.
 - INSTALL CABLE TERMINALS FOR FEED A AND FEED B RETURN BACK-TO-BACK ON OPPOSITE SIDES OF PAD USING 1-HOLE 3/8" TERMINALS.
 - CABLE TERMINALS FOR CHASSIS GROUND SHALL BE 2-HOLE, 1/4" ON 5/8" CENTER.
 - WHEN DISTRIBUTION BOX IS NOT USED, INSTALL 3 RUNS OF (2) 2/C CABLES IN CONDUIT, 1 EACH FROM DC SURGE SHELF TO DC6s.
 - A JUNCTION BOX IS REQUIRED WHEN FIBER OPTIC CABLES ARE INSTALLED IN CONDUIT AS SCOPED BY MARKET.
 - CONVERTER REFERENCE GROUND IS NOT REQUIRED WHEN CONVERTER AND 24V DC POWER PLANT ARE ON THE SAME RACK OR ENCLOSURE.
 - THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE AND DRAIN WIRE WHEN A SHIELDED CABLE IS USED, SHALL BE CONNECTED TO THE EQUIPMENT CABINET GROUND BAR.
 - SEE ALARM BLOCK ASSIGNMENT DETAIL FOR ALARM CABLE CONNECTIONS.
 - PROVIDE A JUNCTION BOX, AS SCOPED BY MARKET, TO COIL EXCESS DC POWER AND OPTICAL FIBER CABLES (FIBER CABLES NOT SHOWN FOR CLARITY)
 - NOTED EQUIPMENT MAY BE COMMON TO LTE AND UMS SYSTEMS.
 - CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRH.
 - WHEN AN RRH IS USED INSTEAD OF AN AWS RRH CABLE, LABELS SHOULD REFLECT CORRECT FREQUENCY BAND.

1 TYPICAL DC WIRING DIAGRAM
NOT TO SCALE

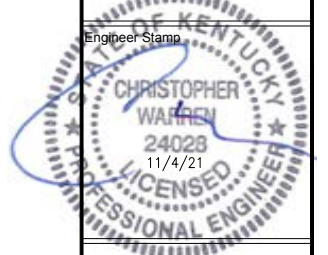
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Drawing Title
TYPICAL DC WIRING DIAGRAM

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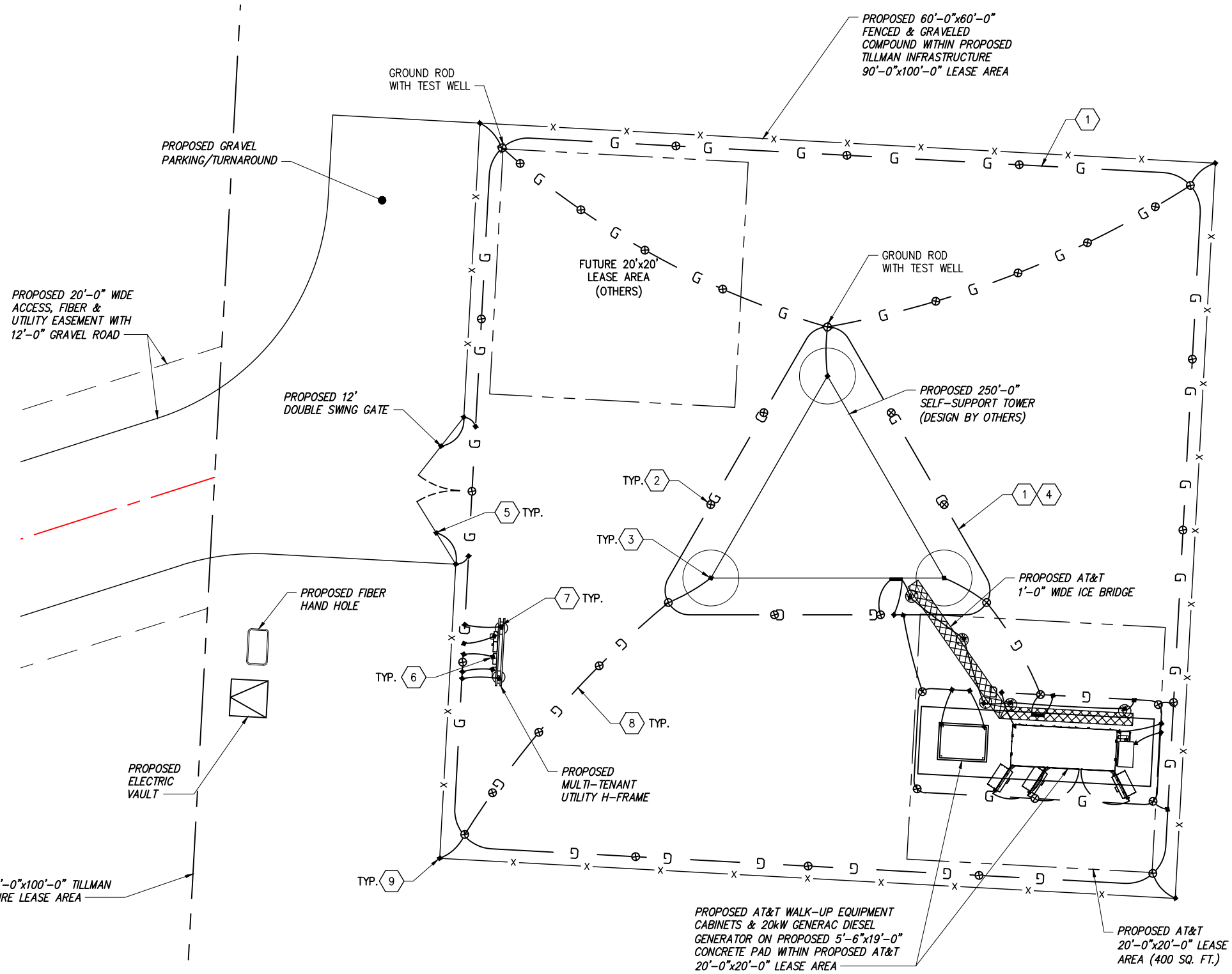
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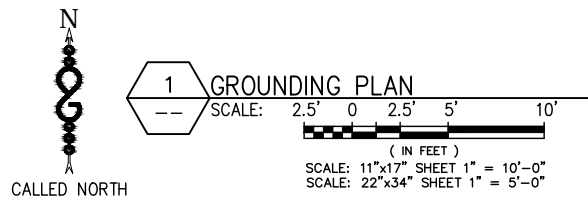
GROUNDING REFERENCE NOTES

- 1 APPROXIMATE LOCATION OF #2 AWG SOLID BARE TINNED GROUND RING. GROUND RING SHALL BE BURIED 36" BELOW THE FROST LINE OR 18" BELOW GRADE, WHICHEVER IS GREATER. EXACT LOCATION AND NUMBER OF GROUND RODS TO BE DETERMINED ON SITE AND BASED ON "FALL OF POTENTIAL GROUND RESISTANCE METHOD" FOR RESISTANCE < 5 OHMS. UNLESS OTHERWISE NOTED, DRIVEN GROUND RODS ARE TO BE BURIED AT 16 FEET INTERVALS. SEE SHEET E-5 FOR ADDITIONAL GROUNDING INFORMATION.
- 2 PROVIDE 5/8" X 10'-0" LONG COPPER CLAD STEEL (COPPER WELD) GROUND ROD AS SHOWN. PROVIDE INSPECTION SLEEVE AT GROUND ROD TO SHOW BOND TO EXTERIOR BURIED GROUND RING (MINIMUM OF 4 INSPECTION SLEEVES). INSTALL GROUND ROD TWO (2) FEET MINIMUM AWAY FROM ANY SLAB. INSTALL SO THAT TOP OF GROUND ROD IS 30" BELOW GRADE OR FROST LINE, WHICHEVER IS DEEPER. EXACT LOCATION AND NUMBER OF GROUND RODS TO BE ESTABLISHED ON SITE AND BASED ON "FALL OF POTENTIAL GROUND RESISTANCE METHOD" FOR RESISTANCE < 5 OHMS.. UNLESS OTHERWISE NOTED, DRIVEN GROUND RODS ARE BONDED TO THE BURIED GROUND RING AT 16 FEET INTERVALS.
- 3 NEW #2 AWG SOLID BARE TINNED COPPER CONDUCTOR FROM TOWER GROUNDING FLANGE AT BASE OF TOWER TO TOWER GROUND RING.
- 4 NEW #2 AWG SOLID BARE TINNED TOWER GROUND RING WITH GROUND RODS. TOWER GROUND RING SHALL BE SPACED A MINIMUM OF 2'-0" FROM TOWER FOUNDATION.
- 5 NEW #2 AWG WELDING CABLE OR FLEXIBLE CABLE, GATE JUMPER.
- 6 NEW #2 AWG GROUND FROM SERVICE ENTRANCE GROUND ELECTRODE TO EXTERNAL GROUND RING.
- 7 BOND "H-FRAME" TO EXTERNAL GROUND RING USING A #2 AWG GROUND CONDUCTOR (TYP OF 2 PLACES).
- 8 NEW #2 AWG GROUND FROM TOWER GROUNDING TO EXTERNAL GROUND RING.
- 9 BOND FENCE POST TO GROUND RING AS SHOWN WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR USING AN EXOTHERMIC WELD.

GROUNDING LEGEND	
	EXOTHERMIC WELD CONNECTION
	COMPRESSION FITTING CONNECTION
	5/8"X10' COPPER-CLAD STEEL GROUND ROD
	5/8"X10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
	PROPOSED GROUND WIRING
	EXISTING GROUND WIRING
	TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
	COLLECTOR GROUND BAR
	MAIN GROUND BAR



- NOTES:**
1. CONTRACTOR SHALL INSPECT AND TEST ANY NEW AT&T GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
 2. CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED.



NOTE: PIGTAIL ALL GROUNDING FOR FUTURE EQUIPMENT AS REQUIRED.

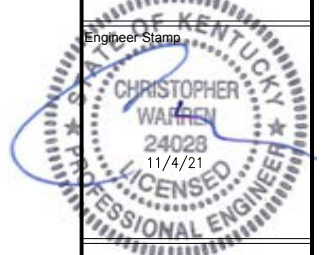


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B	ISSUED FOR REVIEW	CES	10/27/21
A	ISSUED FOR REVIEW	CES	09/28/21

Drawn: CES Date: 09/28/21
 Designed: CES Date: 09/28/21
 Checked: C.W. Date: 09/28/21

Project Number
2136-Z0001-C

Project Title
15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079



Drawing Title
GROUNDING PLAN

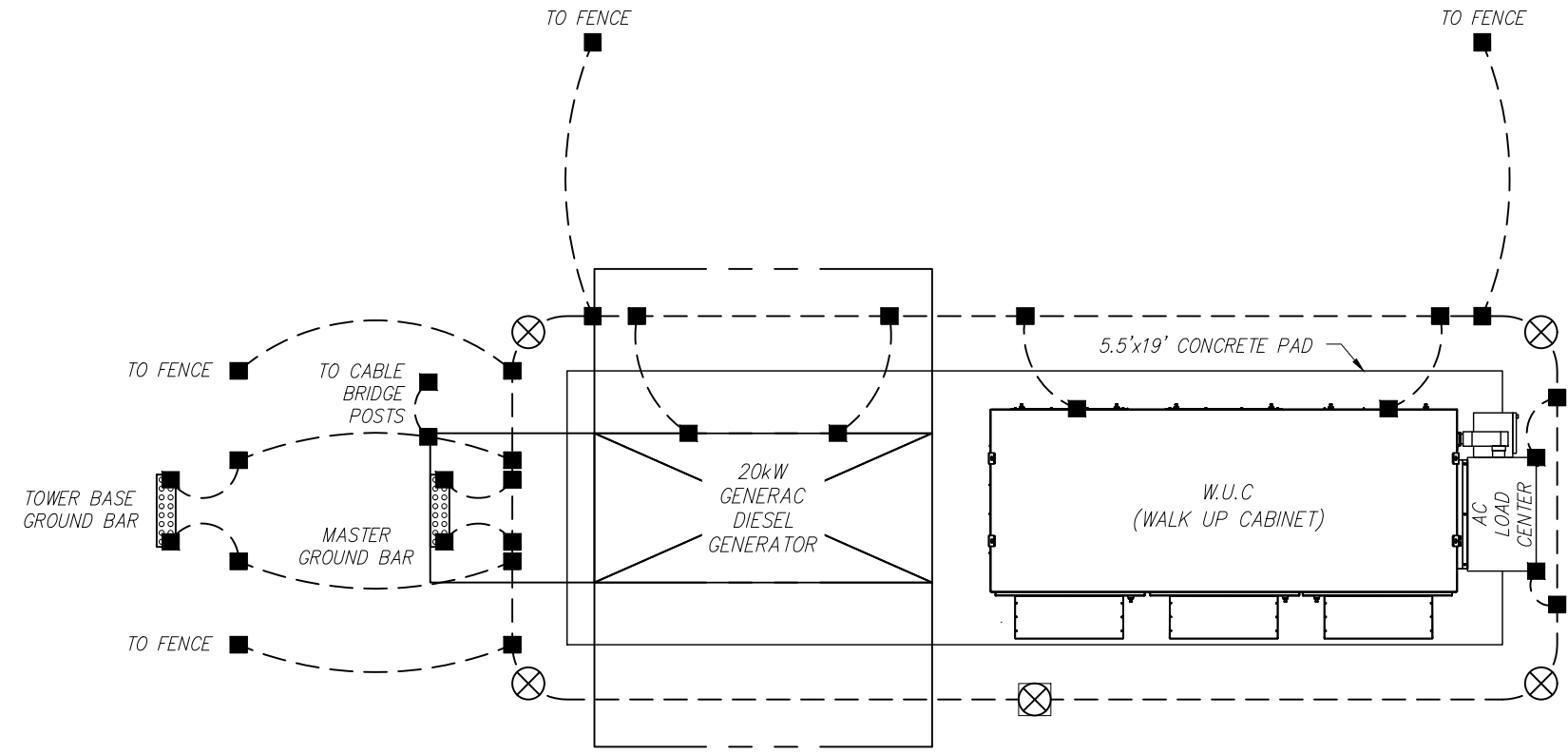
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G1

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GROUNDING LEGEND	
■	EXOTHERMIC WELD CONNECTION
●	COMPRESSION FITTING CONNECTION
⊗	5/8"x10' COPPER-CLAD STEEL GROUND ROD
⊗	5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
---	PROPOSED GROUND WIRING
---	EXISTING GROUND WIRING
⊞	TINNED COPPER GROUND BAR
CGB	COLLECTOR GROUND BAR
MGB	MAIN GROUND BAR



1 TYPICAL AT&T EQUIPMENT GROUNDING PLAN
 -- NOT TO SCALE



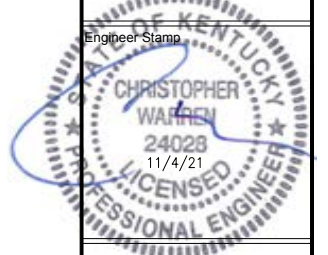
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Drawing Title
 EQUIPMENT
 GROUNDING PLAN

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Drawing Number
 G2

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"X10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45'.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

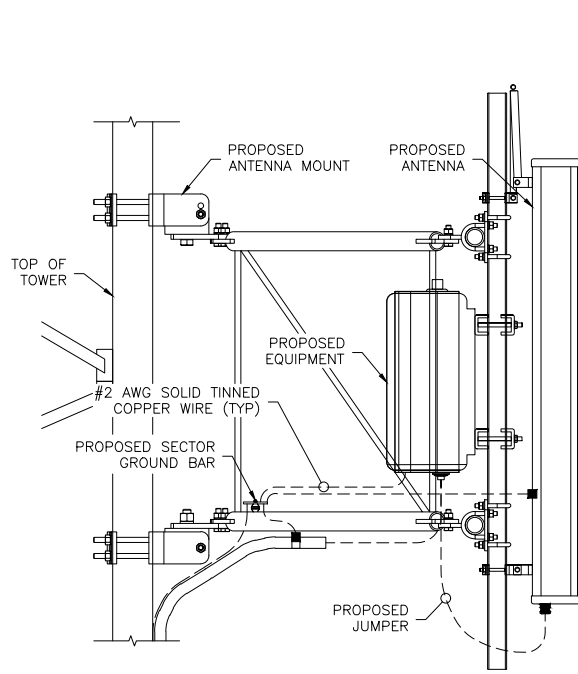
CABLE COLOR CODING NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

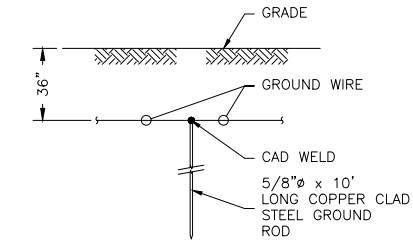
CABLE MARKING TAGS:

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATING THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

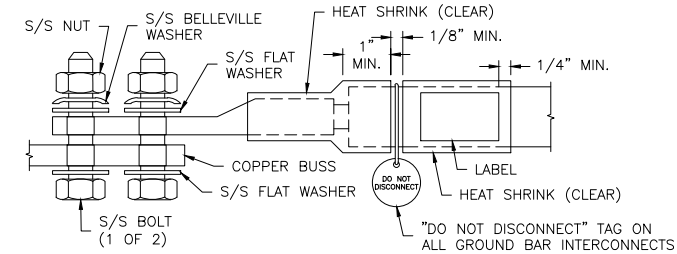
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.



2 ANTENNA & CABLE GROUNDING
-- NOT TO SCALE

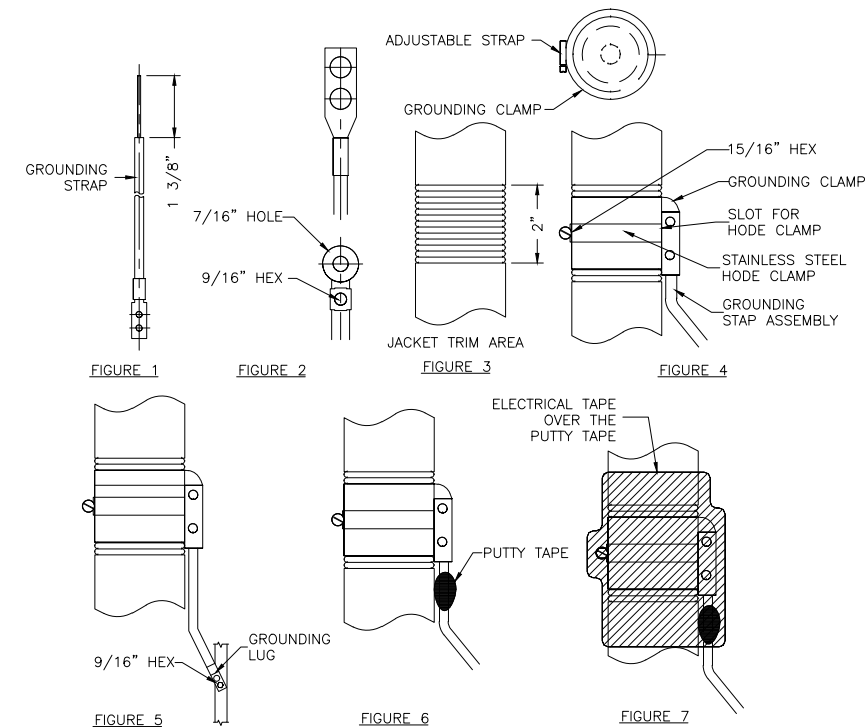


3 GROUNDING ROD DETAIL
-- NOT TO SCALE

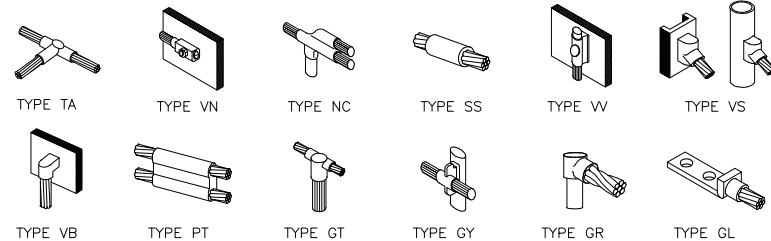


- NOTES:**
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
 - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

4 GENERAL LUG DETAIL
-- NOT TO SCALE



6 GROUNDING STRAP WEATHERPROOFING DETAIL
-- NOT TO SCALE



1 CADWELD GROUNDING CONNECTION DETAILS
-- NOT TO SCALE

- NOTE:**
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

5 TYPICAL GROUND BAR CONNECTION DETAIL
-- NOT TO SCALE



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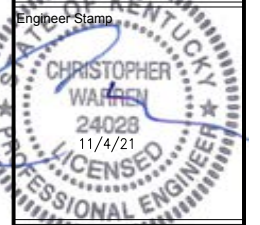
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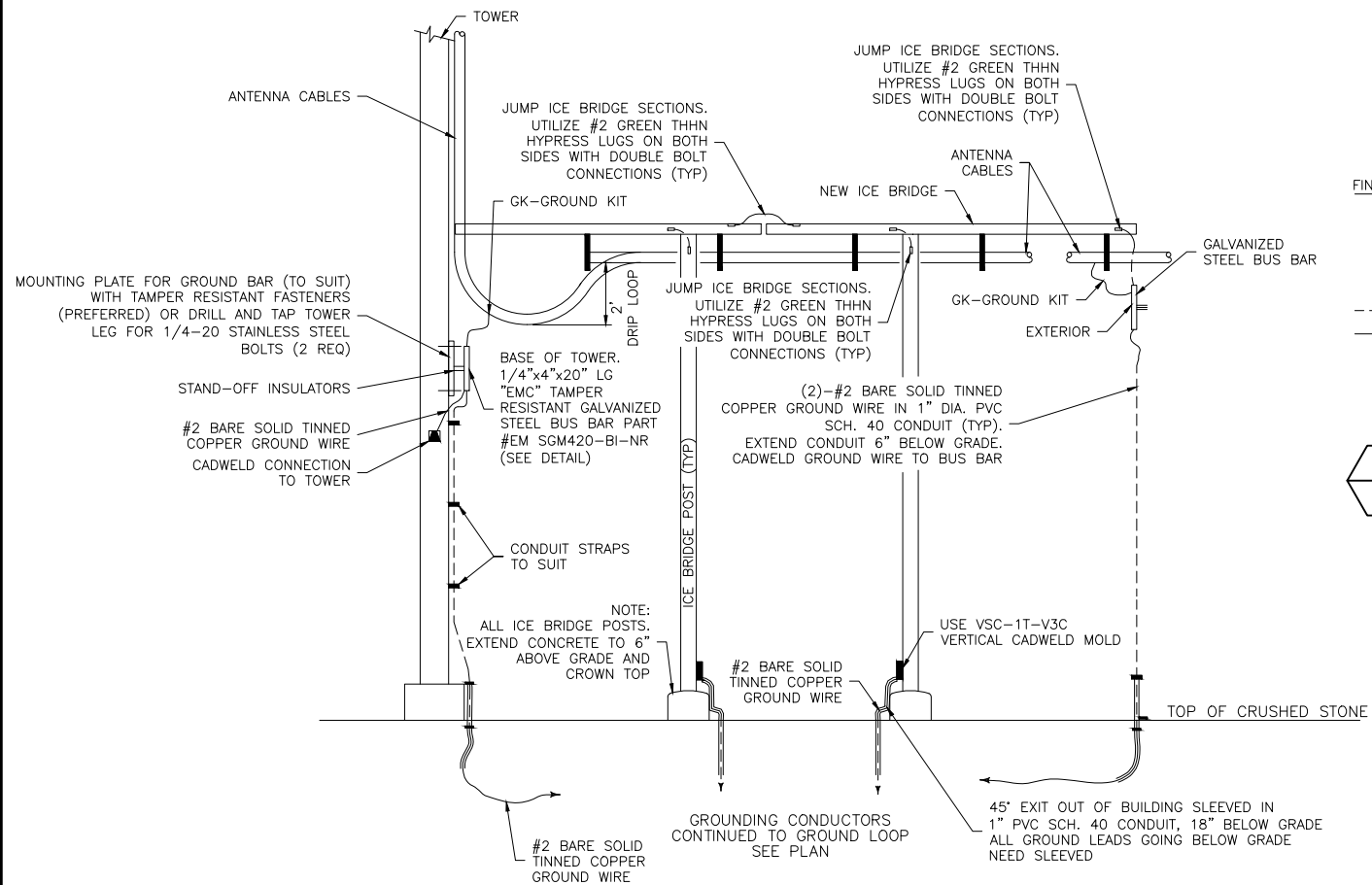


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GROUNDING DETAILS & NOTES

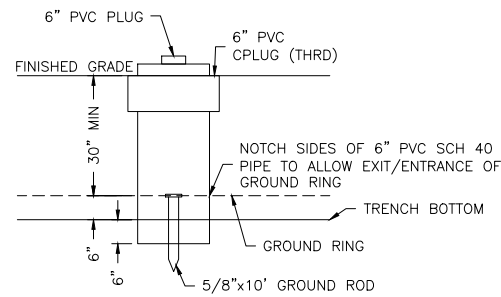
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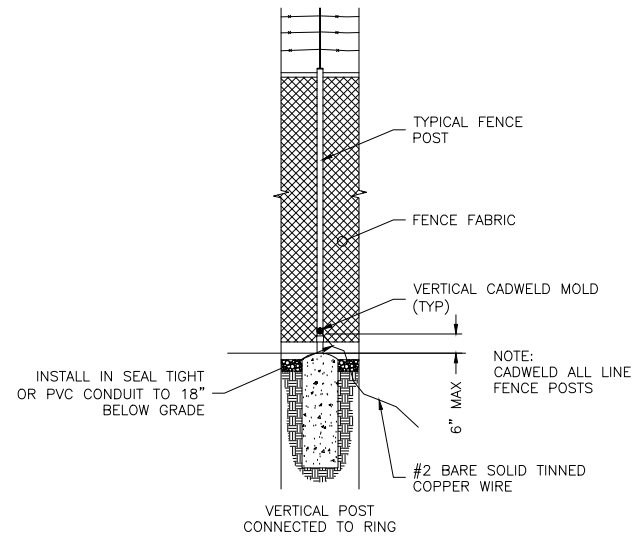
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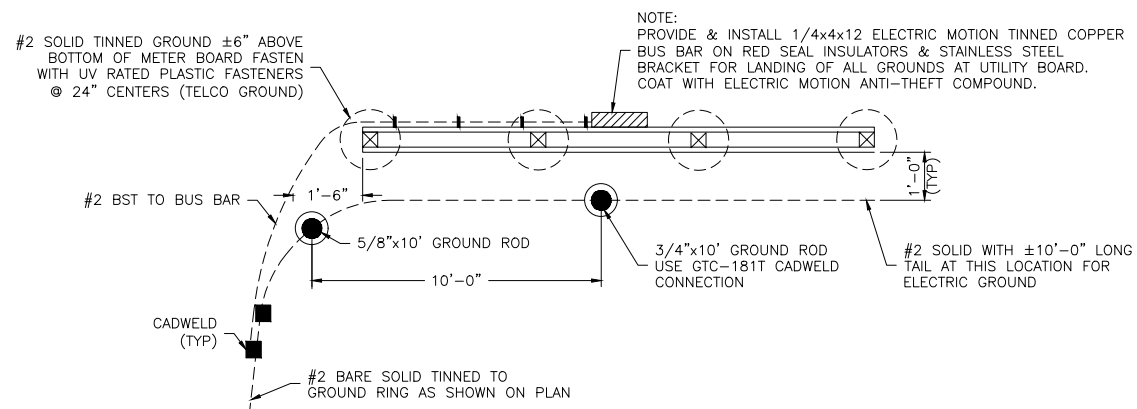
1 COAXIAL GROUNDING AT ICE BRIDGE
NOT TO SCALE



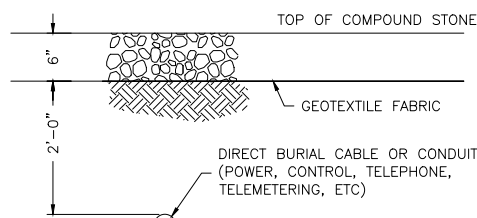
2 INSPECTION WELL DETAIL
NOT TO SCALE



3 TYPICAL FENCE POST GROUNDING
NOT TO SCALE



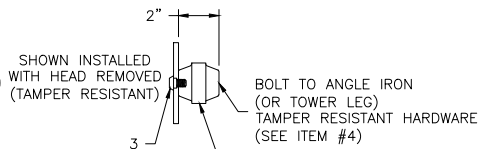
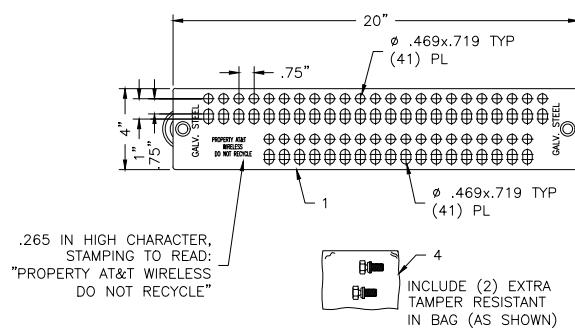
4 METER BOARD UTILITY GROUNDING DETAIL
NOT TO SCALE



- INSTALLATION**
1. THE TAPE SHALL BE LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.
 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8" BELOW THE SURFACE OF THE AREA.
 3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROXIMATELY SIX (6) INCHES.
 4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION	CAUTION	CAUTION
	BURIED ELECTRIC LINE BELOW		
ORANGE	CAUTION	CAUTION	CAUTION
	BURIED TELEPHONE LINE BELOW		

5 STANDARD MARKER TAPE DETAIL
NOT TO SCALE



ITEM	PART NO.	DESCRIPTION	REQ
4	02-009-0663-000 (SUB ASSEMBLY)	3/8-16x5/8" TORQUE SHEAR HEAD BOLT IN A STANDARD 4x6 BAG INCLUDES: (2) 3/8-16x5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303) P/N 02-009-0603-000 (1) STANDARD 4"x6" BAG (P/N 03-009-0209-00)	1
3	02-009-0633-000	3/8-16x5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303)	2
2	03-009-0118-000	2"x2" INSULATOR; FIBERGLASS	2
1	02-009-0672-000	20" GROUND BAR; STEEL; GALVANIZED	1
		DESCRIPTION	REQ

EMC
ELECTRIC MOTION CO., INC.
110 GROUPO DR./ BOX 626
WINSTED, CT 06098
PART #EM SGM420-BI-NR

6 TOWER BUS BAR DETAIL
NOT TO SCALE

7 GATE GROUNDING DETAIL
NOT TO SCALE



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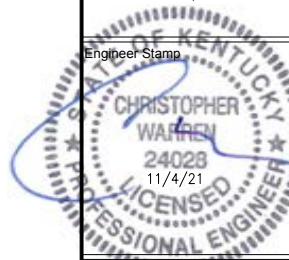
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Section 1 - RFDS GENERAL INFORMATION										
RFDS NAME	KY00075	DATE	08/03/21	RF DESIGN ENG	Star Mathew	RF PDR ENG		RFDS PROGRAM TYPE	2022 New Site	
ISSUE		Approved? (Y/N)	Yes	RF DESIGN PHONE	502-820-7123	RF PDR PHONE		RFDS TECHNOLOGY	5G-nr	
REVISION		RF MANAGER	Dyan-Han	RF DESIGN EMAIL	smath@at&t.com	RF PDR EMAIL		STATE STATUS	As Built Progress	
INITIATIVE PROJECT	LTE: Add (1) MHP400-FR1 10port antenna, (2) per sector: Add (2) 650MHz 4W, (3) ANSPCS 8K320, and (2) 700MHz 4W. Add (2) 24-port fiber lines: Add (2) DC3 and (2) power lines. Final baseband configuration is (2) 400E. At least 8' horizontal separation between 700MHz D/E and 700MHz BC antenna when the same sectorize and 2' minimum horizontal separation between 700MHz D/E. For antennas with no working ports, add DF-CAPKIT to open ports and add DUST-CAP to RF1 port. For antennas with working ports, add T-30W - 20W to each open port.				ADDITIONAL WORKFLOW NOTIFICATIONS				RFDS ID	400437
	RFDS VERSION: 1.00				Created By:		cm774	Updated By:	cm774	
	3GPP RF SPEC				Date Created:		8/3/2021 4:42:01 PM	Date Updated:	8/17/2021 2:04:58 PM	
	LTE RF SPEC				OPERATION DATE					
	5G RF SPEC				ESTIMATED QRM		15.575	Calculation ID:	02100000000000000000	
	PLAN JOB #1: NER-RTNK-25-00016				PLAN PDS GRP (500 GRP #):		LTE Neel Center LTE 3C 4BW			
	PLAN JOB #2: NER-RTNK-25-00017				PLAN PDS GRP (500 GRP #):		LTE Neel Center LTE 2C 4BW			
	PLAN JOB #3: NER-RTNK-25-00022				PLAN PDS GRP (500 GRP #):		5G NR Software Radio 5G NR 10P-2 4BW			
	PLAN JOB #4: NER-RTNK-25-00026				PLAN PDS GRP (500 GRP #):		New Site LTE Day 1C 4BW			
	PLAN JOB #5: NER-RTNK-25-00027				PLAN PDS GRP (500 GRP #):		LTE Software Center LTE 4C 4BW			
PLAN JOB #6:				PLAN PDS GRP (500 GRP #):						
PLAN JOB #7:				PLAN PDS GRP (500 GRP #):						
PLAN JOB #8:				PLAN PDS GRP (500 GRP #):						
Section 2 - LOCATION INFORMATION										
MARKET	00075	FA LOCATION CODE	040007	LOCATION NAME	SEDALIA	GRACE PTN #1: CHD41000	FACE JOB #1:	WFTW00150		
REGION	SOUTHEAST	MARKET CLUSTER	TENNESSEE/KENTUCKY	MARKET #	EVINGHILLE	GRACE PTN #2: CHD41001	FACE JOB #2:	WFTW00157		
ADDRESS	000 STATE ROUTE 381	CITY	SEDALIA	STATE	KY	GRACE PTN #3: CHD41002	FACE JOB #3:	WFTW00153		
ZIP CODE	40379	COUNTY	GRAND	LONG (SEC, INCH)	48.622772	GRACE PTN #4: CHD41003	FACE JOB #4:	WFTW00154		
LATITUDE (N, WGS)	36.3819 208n	LONGITUDE (W, WGS)	84.39455152w	LAT (SEC, INCH)	36.377888	GRACE PTN #5: CHD41004	FACE JOB #5:	WFTW00158		
DIRECTIONS, ACCESS AND EQUIPMENT LOCATION	TSD				GRACE PTN #6:		FACE JOB #6:			
					GRACE PTN #7:		FACE JOB #7:			
					GRACE PTN #8:		FACE JOB #8:			
					GRACE PTN #9:		FACE JOB #9:			
					GRACE PTN #10:		FACE JOB #10:			
	BORDER CELL WITH CONTIGUOUS COORD				SEARCH RING NAME:		Gridline			
	MARK STREET REVIEWS (Y/N):				SEARCH RING ID:		Gridline			
	FREQ CHAN#:				STN#:		NSA - NSA			
					LACIDN#:					
					RF DISTRICT:		KY West			
				RF ZONE:		2 verizon				
				RF ZONE ID:		00000000				
				PARENT NAME (Y/N):						
				MME POOL (SUITE):		PF20				
Section 3 - LICENSE COVERAGE/FILING INFORMATION										
CCSA - NO FILING INDICATED (Y/N)		CCSA LINKS		PCS REVISED - 8P3 ZIP		CCSA CALL SIGNS				
CCSA - MNR FILING NEEDED (Y/N)		CCSA EXT AGMT NEEDED		PCS POPS REVISED						
CCSA - MNR FILING NEEDED (Y/N)		CCSA SCORE CHRG W/SEARCH								
Section 4 - TOWER/REGULATORY INFORMATION										
STRUCTURE ASSET OWNERSHIP		GROUND ELEVATION (FT)	078	STRUCTURE TYPE	SELF SUPPORT	MARKET LOCATION 700 MHz Band				
ADDITIONAL REG RELATIONS		HEIGHT OVERALL (FT)		FCC AIR NUMBER		MARKET LOCATION 850 MHz Band				
SUB LEASE RIGHTS		STRUCTURE HEIGHT (FT)	00000	MARKET LOCATION 1900 MHz Band						
LOCKING TYPE		MARKET LOCATION AWS Band								
						MARKET LOCATION WCS Band				
						MARKET LOCATION Future Band				

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Checked:	CJW	Date:	09/28/21

Project Number
2136-Z0001-C

Project Title
15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079

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RF1	

Section 17A - FINAL TOWER CONFIGURATION - SECTOR A (OR OMNI)

ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MODEL	NNH48D-R6	NNH48D-R6				
ANTENNA VENDOR	ComScope	ComScope				
ANTENNA SIZE (H x W x D)	105.8X18.8X7.8	105.8X18.8X7.8				
ANTENNA HEIGHT	88.2	88.2				
AZIMUTH	90	90				
HEIGHT DISCREPANCY						
RADIATION CENTER (feet)	245	245				
ANTENNA TOP HEIGHT						
MECHANICAL DOWN TILT	0	0				
FEEDER AMOUNT						
VERTICAL SEPARATION from ANTENNA ABOVE (TOP to TOP)						
VERTICAL SEPARATION from ANTENNA BELOW (TOP to TOP)						
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)						
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)						
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna # if of inches)						
Antenna RET Model (CTY MODEL)						
SURGE ARRESTOR (CTY MODEL)						
DIPLEXER (CTY MODEL)						
DIPLEXER (CTY MODEL)						
Antenna RET CONTROL UNIT (CTY MODEL)						
DC BLOCK (CTY MODEL)						
TRUNKER (CTY MODEL)						
CURRENT INJECTORS FOR TRUNK (CTY MODEL)						
PSU FOR TRUNK (CTY MODEL)						
FILTER (CTY MODEL)						
SQUID (CTY MODEL)	DCS-48-8D-24-8C-EV					
FIBER TRUNK (CTY MODEL)						
DC TRUNK (CTY MODEL)						
REPEATER (CTY MODEL)						
RRR - 700 band (CTY MODEL)	448 B5B12	1	447B@14			
RRR - 850 band (CTY MODEL)	RRR is shared with another band					
RRR - 1900 band (CTY MODEL)	9847 B0B66A					
RRR - AWS band (CTY MODEL)	RRR is shared with another band					
RRR - WCS band (CTY MODEL)						
Additional RRR #1 - any band (CTY MODEL)						
Additional RRR #2 - any band (CTY MODEL)						
RRR #B 1 (CTY MODEL)						
RRR #B 2 (CTY MODEL)						
RRR #B 3 (CTY MODEL)						
Additional Component 1 (CTY MODEL)						
Additional Component 2 (CTY MODEL)						
Additional Component 3 (CTY MODEL)						
Local Market Rate 1	Antenna positions left to right facing front of antennas.					
Local Market Rate 2						
Local Market Rate 3						

PORT SPECIFIC FIELDS	PORT NUMBER	USE B (K55g)	USE B (MHz)	#TOLL T300	#TOLL CELL #	TECHNOLOGY FREQ BAND	ANTENNA #TOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRR LOCATION (Top/Bottom Integrated/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	ADJUT KIT MODULE ?	TRIPLEXER or LLC (CTY)	TRIPLEXER or LLC (MODEL)	SCRAMBLER MODULE ?	RATONPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE # (CSSHG)	
ANTENNA POSITION 1	PORT 1	299672.A.700.4G.2				LTE 700	NNH48D-R6_720MHz_04DT	15.9	80	4	TOP	Fiber	0	NO									
	PORT 2	299672.A.850.5G.1				5G B50	NNH48D-R6_840MHz_04DT	18.2	80	4	TOP	Fiber	0	NO									
	PORT 3	299672.A.AWS.4G.1				LTE AWS	NNH48D-R6_1900MHz_04DT	17.3	80	2	TOP	Fiber	0	NO									
ANTENNA POSITION 2	PORT 4	299672.A.AWS.4G.2					RB_2130MHz_02DT																
		299672.A.1900.4G.1, 299672.A.1900.4G.2					LTE 1900	NNH48D-R6_1930MHz_02DT	17.2	80	2	TOP	Fiber	0	NO								
ANTENNA POSITION 3	PORT 1	299672.A.700.4G.1				LTE 700	NNH48D-R6_768MHz_04DT	15.9	80	4	TOP	Fiber	0	NO									

1 RFDS CONFIGURATION TABLE
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Project Number: 2136-Z0001-C
Project Title: 15403957 TI-OPP-17997 SEDALIA 230 STATE ROUTE 381 SEDALIA, KY 42079

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Date: 09/28/21

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Section 17B - FINAL TOWER CONFIGURATION - SECTOR B

ANTENNA POSITION as LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	NNH4-65D-R6		NNH4-65D-R6				
ANTENNA VENDOR	Commscope		Commscope				
ANTENNA SIZE (H x W x D)	105.8X19.8X7.8		105.8X19.8X7.8				
ANTENNA WEIGHT	88.2		88.2				
ALZIMUTH	180		180				
MAGNETIC DECLINATION							
RADIATION CENTER (feet)	245		245				
ANTENNA TIP HEIGHT							
MECHANICAL DOWN TILT	0		0				
FEEDER AMOUNT							
VERTICAL SEPARATION from ANTENNA ABOVE (TOP to TOP)							
VERTICAL SEPARATION from ANTENNA BELOW (TOP to TOP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (on each antenna +/- if inches)							
Antenna RET Model (QTY MODEL)							
SURGE ARRESTOR (QTY MODEL)							
DUPLEXER (QTY MODEL)							
DUPLEXER (QTY MODEL)							
Antenna RET CONTROL UNIT (QTY MODEL)							
DC BLOCK (QTY MODEL)							
THUNDER (QTY MODEL)							
CURRENT INDUCTORS FOR THUNDER (QTY MODEL)							
PSU FOR THUNDER (QTY MODEL)							
FILTER (QTY MODEL)							
SQS (QTY MODEL)							
FIBER TRUNK (QTY MODEL)							
DC TRUNK (QTY MODEL)							
REPEATER (QTY MODEL)							
RRR - 700 band (QTY MODEL)	1	448 B5B12	1	448 B5B14			
RRR - 850 band (QTY MODEL)	1	RRR is shared with another band					
RRR - 1900 band (QTY MODEL)	1	8943 S0885A					
RRR - AWS band (QTY MODEL)	1	RRR is shared with another band					
RRR - WCS band (QTY MODEL)							
Additional RRR #1 - any band (QTY MODEL)							
Additional RRR #2 - any band (QTY MODEL)							
RRR 7B 1 (QTY MODEL)							
RRR 7B 2 (QTY MODEL)							
RRR 7B 3 (QTY MODEL)							
Additional Component 1 (QTY MODEL)							
Additional Component 2 (QTY MODEL)							
Additional Component 3 (QTY MODEL)							
Local Market Note 1	Antenna positions left to right facing front of antennas.						
Local Market Note 2							
Local Market Note 3							

PORT SPECIFIC FIELDS	PORT NUMBER	USEID (CSeg)	USEID (Ant)	ATOLL TOID	ATOLL CELL ID	TECHNOLOGY	TECHNOLOGY FREQ	TECHNOLOGY BAND	ANTENNA ATOLL	ANTENNA GAIN	ELECTRICAL AZIMUTH	ELECTRICAL TILT	RRR LOCATION (Top/Bottom/Inverted/None)	FEEDERS TYPE	FEEDER LENGTH (feet)	ROUT KIT MODULE ?	TRIPLEXER or LLC (QTY)	TRIPLEXER or LLC (MODEL)	SCP/AMCPA MIDDLE ?	RATCHPLATE POWER (Watts)	ERP (Watts)	Antenna RET Name	CABLE NUMBER	CABLE ID (CSSEG)	
ANTENNA POSITION 1	PORT 1	299672.B.700.40.2		KYL09978_7B_2	KYL09978_7B_2	LTE 700		NNH4-65D-R6_720MHz_04DT	15.9	180	4	TOP	Fiber	0	NO										
	PORT 2	299672.B.850.50.1		KYEN002178_N005B_3	KYEN002178_N005B_3	5G 850		NNH4-65D-R6_850MHz_04DT	16.2	180	4	TOP	Fiber	0	NO										
	PORT 3	299672.B.AWS.40.1		KYL09978_7B_1	KYL09978_7B_1	LTE AWS		NNH4-65D-R6_1900MHz_04DT	17.3	180	2	TOP	Fiber	0	NO										
ANTENNA POSITION 2	PORT 1	299672.B.AWS.40.2		KYL03178_7B_1	KYL03178_7B_1			R6_2130MHz_02DT																	
	PORT 2	299672.B.1900.40.1, 299672.B.1900.40.2		KYL03178_7B_1, KYL03178_7B_1	KYL03178_7B_2, KYL03178_7B_1	LTE 1900		NNH4-65D-R6_1930MHz_02DT	17.2	180	2	TOP	Fiber	0	NO										
ANTENNA POSITION 3	PORT 1	299672.B.700.40.1		KYL09978_7B_1_F	KYL09978_7B_1_F	LTE 700		NNH4-65D-R6_768MHz_04DT	15.9	180	4	TOP	Fiber	0	NO										

1 RFDS CONFIGURATION TABLE
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2136-Z0001-C

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15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079

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RF3

Section 17C - FINAL TOWER CONFIGURATION - SECTOR C

ANTENNA POSITION is LEFT to RIGHT from BACK OF ANTENNA (unless otherwise specified)	ANTENNA POSITION 1	ANTENNA POSITION 2	ANTENNA POSITION 3	ANTENNA POSITION 4	ANTENNA POSITION 5	ANTENNA POSITION 6	ANTENNA POSITION 7
ANTENNA MAKE - MODEL	NNH4-8SD-R8		NNH4-8SD-R8				
ANTENNA VENDOR	Comm scope		Comm scope				
ANTENNA SIZE (H x W x D)	105.5X15.5X7.5		105.5X15.5X7.5				
ANTENNA WEIGHT	88.2		88.2				
AZIMUTH	300		300				
MECHANICAL DECLINATION							
RADIATION CENTER (feet)	245		245				
ANTENNA TOP HEIGHT							
MECHANICAL DOWN TILT	0		0				
FEEDER AMOUNT							
VERTICAL SEPARATION from ANTENNA ABOVE (TP to TP)							
VERTICAL SEPARATION from ANTENNA BELOW (TP to TP)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to LEFT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from CLOSEST ANTENNA to RIGHT (CENTERLINE to CENTERLINE)							
HORIZONTAL SEPARATION from ANOTHER ANTENNA (which antenna if - # of antenna)							
Antenna RET Model (RTY MODEL)							
SWITCH MODELS (RTY MODEL)							
DIPLEXER (RTY MODEL)							
DIPLEXER (RTY MODEL)							
Antenna RET CONTROL UNIT (RTY MODEL)							
DC BLOCK (RTY MODEL)							
TRIALER (RTY MODEL)							
CURRENT INJECTORS FOR TWR (RTY MODEL)							
PSU FOR TWR (RTY MODEL)							
FILTER (RTY MODEL)							
SWIRL (RTY MODEL)							
FIBER TRUNK (RTY MODEL)							
DC TRUNK (RTY MODEL)							
REPEATER (RTY MODEL)							
RRH - 700 band (RTY MODEL)	449 35812		449 35814				
RRH - 850 band (RTY MODEL)	RRH is shared with another band						
RRH - 1900 band (RTY MODEL)	843 32854						
RRH - AWS band (RTY MODEL)	RRH is shared with another band						
RRH - WCS band (RTY MODEL)							
Additional RRH in - any band (RTY MODEL)							
Additional RRH in - any band (RTY MODEL)							
RRH 7B 1 (RTY MODEL)							
RRH 7B 2 (RTY MODEL)							
RRH 7B 3 (RTY MODEL)							
Additional Component 1 (RTY MODEL)							
Additional Component 2 (RTY MODEL)							
Additional Component 3 (RTY MODEL)							
Local Market Rate 1	Antenna positions left to right facing front of antenna.						
Local Market Rate 2							
Local Market Rate 3							

PORT SPECIFIC FIELDS	PORT NUMBER	USEID (KSSeq)	USEID (Name)	ATOLL TSD	ATOLL CELL ID	TXRX	TECHNOLOGY/FREQ	ANTENNA	ANTENNA	ELECTRICAL	ELECTRICAL	RRH	FEEDERS	FEEDER	RRH KIT	TRIPLEXER	TRIPLEXER	SCFAM/PA	WATCHDOG	ERP	Antenna	CABLE	CABLE	
							SENCY	ATOLL	GAIN	AZIMUTH	TILT	LOCATION	TYPE	LENGTH	MODULE ?	or LLC (RTY)	or LLC (MODEL)	MODULE ?	POWER	(Watts)	RET Name	NUMBER	ID	
ANTENNA POSITION 1	PORT 1	29972.C.700.40.2		KYL09978_7C_2	KYL09978_7C_2		LTE 700	NNH4-8SD-R8_728MHz_04DT	15.8	300	4	TOP	Fiber	0	NO									
	PORT 2	29972.C.850.50.1		KYL09978_850C_1	KYL09978_850C_1		3G 850	NNH4-8SD-R8_849MHz_04DT	16.2	300	4	TOP	Fiber	0	NO									
	PORT 3	29972.C.AWS.40.1		KYL09978_7C_1	KYL09978_7C_1		LTE AWS	NNH4-8SD-	17.3	300	2	TOP	Fiber	0	NO									
ANTENNA POSITION 2	PORT 4	29972.C.AWS.40.2		KYL03178_2C_1	KYL03178_2C_1			R6_2130MHz_02DT																
		29972.C.1900.40.1, 29972.C.1900.40.2		KYL03178_9C_1, KYL03178_9C_1	KYL03178_9C_2, KYL03178_9C_1		LTE 1900	NNH4-8SD-R6_1930MHz_02DT	17.2	300	2	TOP	Fiber	0	NO									
ANTENNA POSITION 3	PORT 1	29972.C.700.40.1		KYL09978_7C_1_F	KYL09978_7C_1_F		LTE 700	NNH4-8SD-R6_768MHz_04DT	15.9	300	4	TOP	Fiber	0	NO									

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SEDALIA, KY 42079

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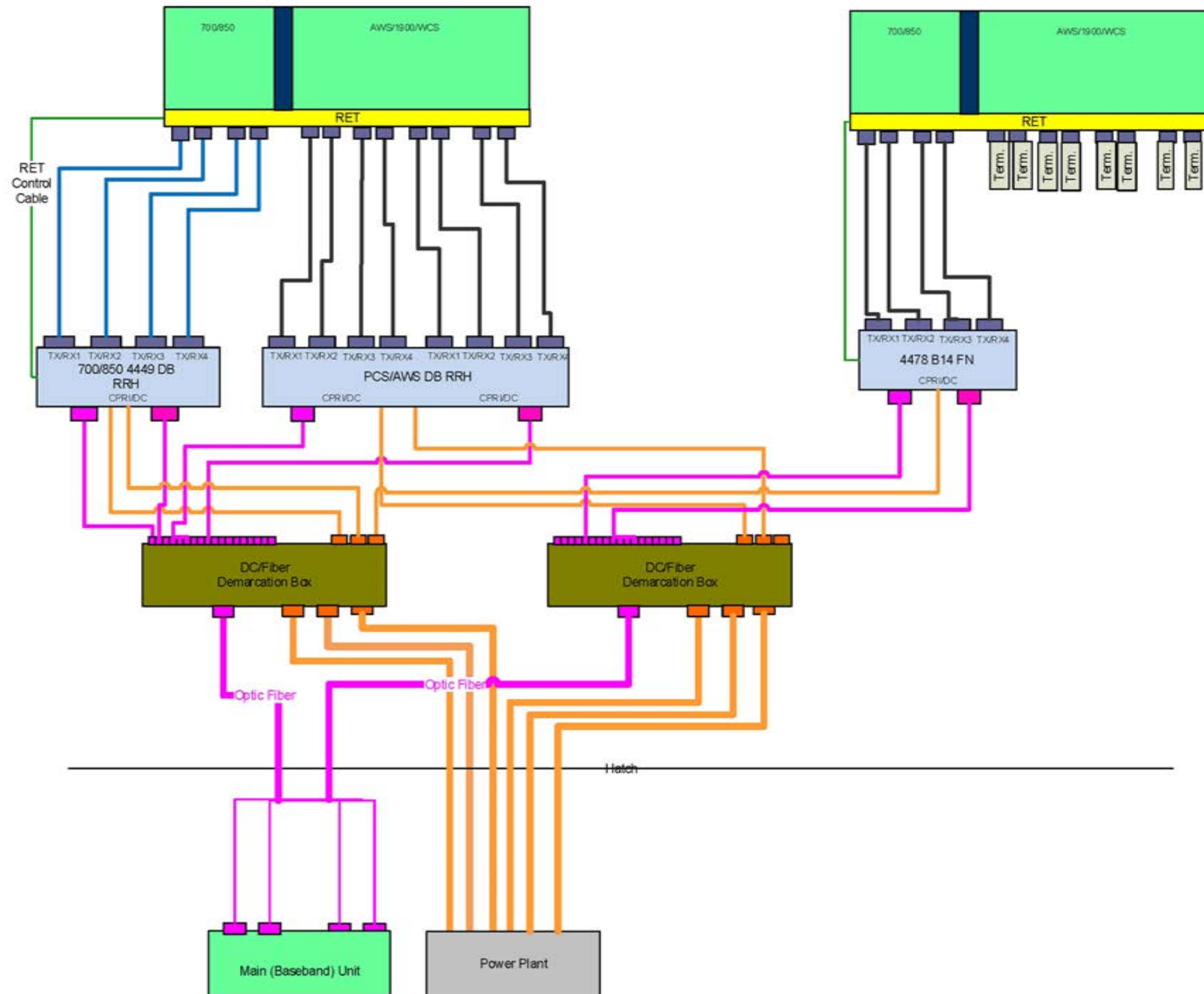
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1 RFDS PLUMBING DIAGRAM
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RF5

EXHIBIT C
TOWER AND FOUNDATION DESIGN

October 6, 2021

Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

RE: Site Name – Sedalia
Proposed Cell Tower
36° 38' 16.29" North Latitude, -88° 36' 09.62" West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be John Lounsbury. His contact information is (770) 865-2254 or jlounsbury@TillmanInfrastructure.com

John has been in the industry completing civil construction and constructing towers since 1996. He has worked at Tillman Infrastructures since 2018 completing project and construction management on new site build projects.

Thank you,

A handwritten signature in black ink that reads "Kendra Moorhead".

Kendra Moorhead
Director of Construction East Region- Tillman Infrastructure
770-714-9771



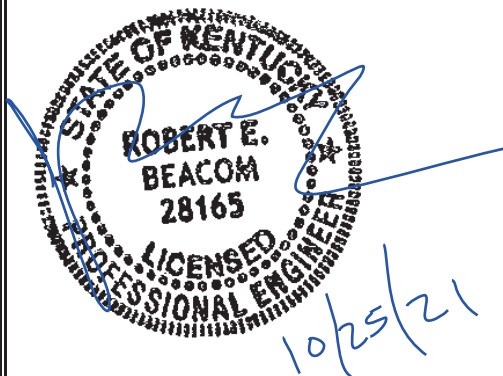
Structural Design Report
250' S3TL Series HD1 Self-Supporting Tower
Site: TI-OPP-17997, KY

Prepared for: TILLMAN INFRASTRUCTURE, LLC
by: Sabre Industries™

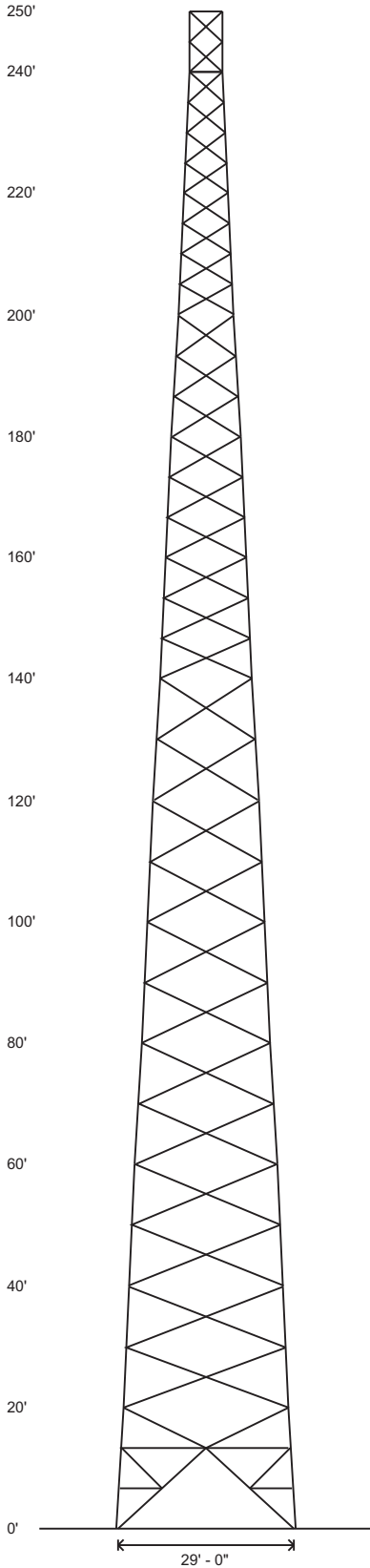
Job Number: 22-2924-TJH

October 25, 2021

Tower Profile.....	1-2
Foundation Design Summary (Option 1).....	3
Foundation Design Summary (Option 2).....	4
Maximum Leg Loads.....	5
Maximum Diagonal Loads.....	6
Maximum Foundation Loads.....	7
Calculations.....	8-25



Legs	8.625 OD X .500		8.625 OD X .322		5.563 OD X .375		C		3.500 OD X .216	
Diagonals	L 4 X 4 X 1/4		L 3 1/2 X 3 1/2 X 1/4		L 2 1/2 X 2 1/2 X 3/16		L 2 X 2 X 3/16		L 2 X 2 X 1/8	
Horizontals	F		NONE		NONE		G		H	
Internals	I		NONE		NONE		NONE		G	
Sub-Diagonals	J		NONE		NONE		NONE		H	
Sub-Horizontals	K		NONE		NONE		NONE		G	
Brace Bolts	(2) 3/4"		(1) 3/4"		13'		(1) 5/8"		7'	
Top Face Width	27'		17'		11'		9'		5'	
Panel Count/Height	L M		12 @ 10'		9 @ 6.6667'		2309		10 @ 5'	
Section Weight	6083		5013		2587		1878		1062	
	5406		3730		3306		1630		546	
	5253		3597		2309		1630		1062	



Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	II
Risk Category	II
Exposure Category	C
Topographic Category	1

Base Reactions

Total Foundation		Individual Footing	
Shear (kips)	65.34	Shear (kips)	39.81
Axial (kips)	176.35	Compression (kips)	429
Moment (ft-kips)	10163	Uplift (kips)	370
Torsion (ft-kips)	39.94		

Material List

Display	Value
A	5.563 OD X .500
B	4.500 OD X .337
C	4.000 OD X .318
D	L 5 X 3 1/2 X 1/4 (SLV)
E	L 3 1/2 X 3 X 1/4 (SLV)
F	L 3 1/2 X 3 1/2 X 1/4
G	L 2 X 2 X 1/8
H	NONE
I	L 3 X 3 X 1/4
J	L 3 X 3 X 3/16
K	L 2 1/2 X 2 1/2 X 3/16
L	1 @ 13.333'
M	1 @ 6.667'

Notes

- 1) All legs are A500 (50 ksi Min. Yield).
- 2) All braces are A572 Grade 50.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 12 hole waveguide ladders with stackable hangers.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) All unequal angles are oriented with the short leg vertical.
- 9) Weights shown are estimates. Final weights may vary.
- 10) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2015 International Building Code.
- 11) Tower Rating: 98.01%
- 12) No grout is required under the base plates.



Sabre Industries
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Sioux City, IA 51102-0658
Phone: (712) 258-6690
Fax: (712) 279-0814


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Job:	22-2924-TJH
Customer:	TILLMAN INFRASTRUCTURE, LLC
Site Name:	TI-OPP-17997, KY
Description:	250' S3TL
Date:	10/25/2021 By: REB

Designed Appurtenance Loading

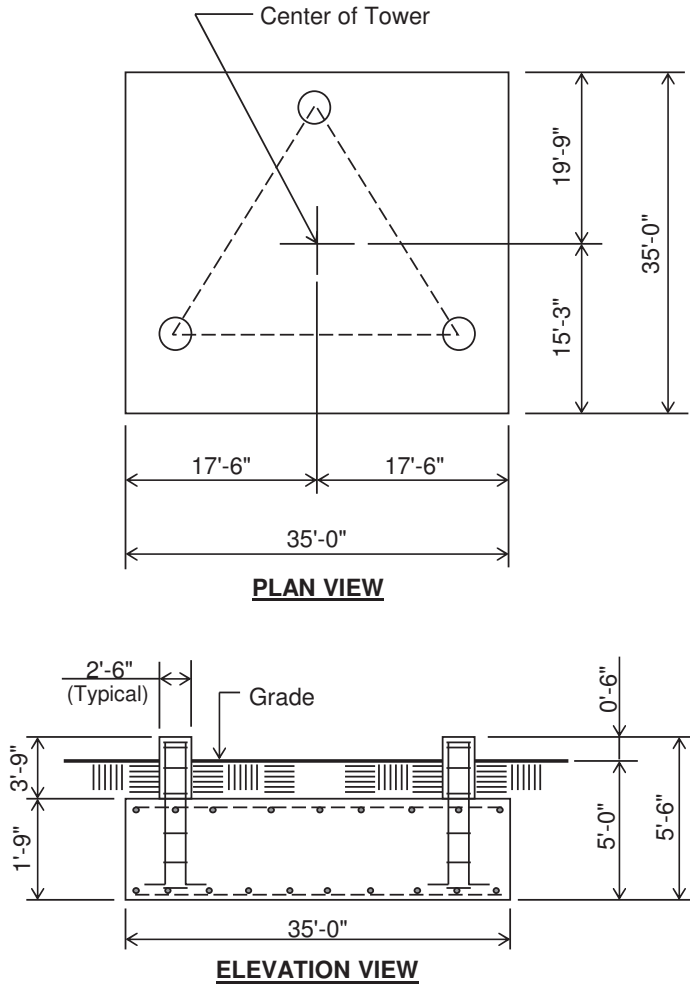
Elev	Description	Tx-Line
245	(1) 278 sq. ft. EPA 6000# (no lce)	(9) 1 5/8"
233	(1) 208 sq. ft. EPA 4000# (no ice)	(9) 1 5/8"
221	(1) 208 sq. ft. EPA 4000# (no ice)	(9) 1 5/8"

Elev	Description	Tx-Line
201	(2) Leg Dish Mount	
201	(2) 4' Solid Dish w/ Radome	(2) 1 5/8"

 <p>Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814</p> <p><small>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.</small></p>	Job: 22-2924-TJH
	Customer: TILLMAN INFRASTRUCTURE, LLC
	Site Name: TI-OPP-17997, KY
	Description: 250' S3TL
	Date: 10/25/2021 By: REB

Customer: TILLMAN INFRASTRUCTURE, LLC
Site: TI-OPP-17997, KY

250 ft. Model S3TL Series HD1 Self Supporting Tower



ELEVATION VIEW
(81.4 cu. yds.)
(1 REQD.; NOT TO SCALE)

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

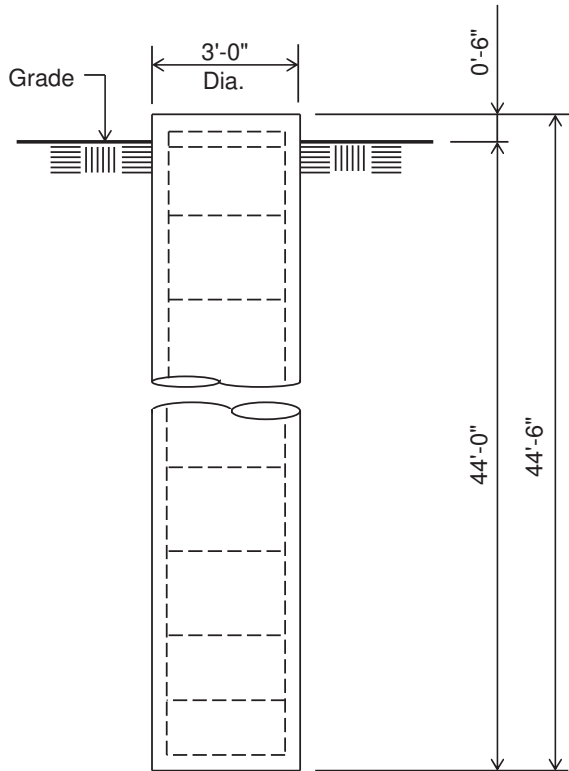
Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 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. GEO21-11312-08, Date: 10/11/2021
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) The foundation is based on the following factored loads:
Factored download (kips) = 72.35
Factored overturn (kip-ft) = 10,162.84
Factored shear (kips) = 65.34
- 8) 3.25' of soil cover is required over the entire area of the foundation slab.
- 9) 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	(12) #10 vertical rebar w/ hooks at bottom w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
Mat	(68) #8 horizontal rebar evenly spaced each way top and bottom. (272 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.	

Customer: TILLMAN INFRASTRUCTURE, LLC
Site: TI-OPP-17997, KY

250 ft. Model S3TL Series HD1 Self Supporting Tower



Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 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. GEO21-11312-08, Date: 10/11/2021
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) The foundation is based on the following factored loads:
 Factored uplift (kips) = 370.00
 Factored download (kips) = 429.00
 Factored shear (kips) = 40.00
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

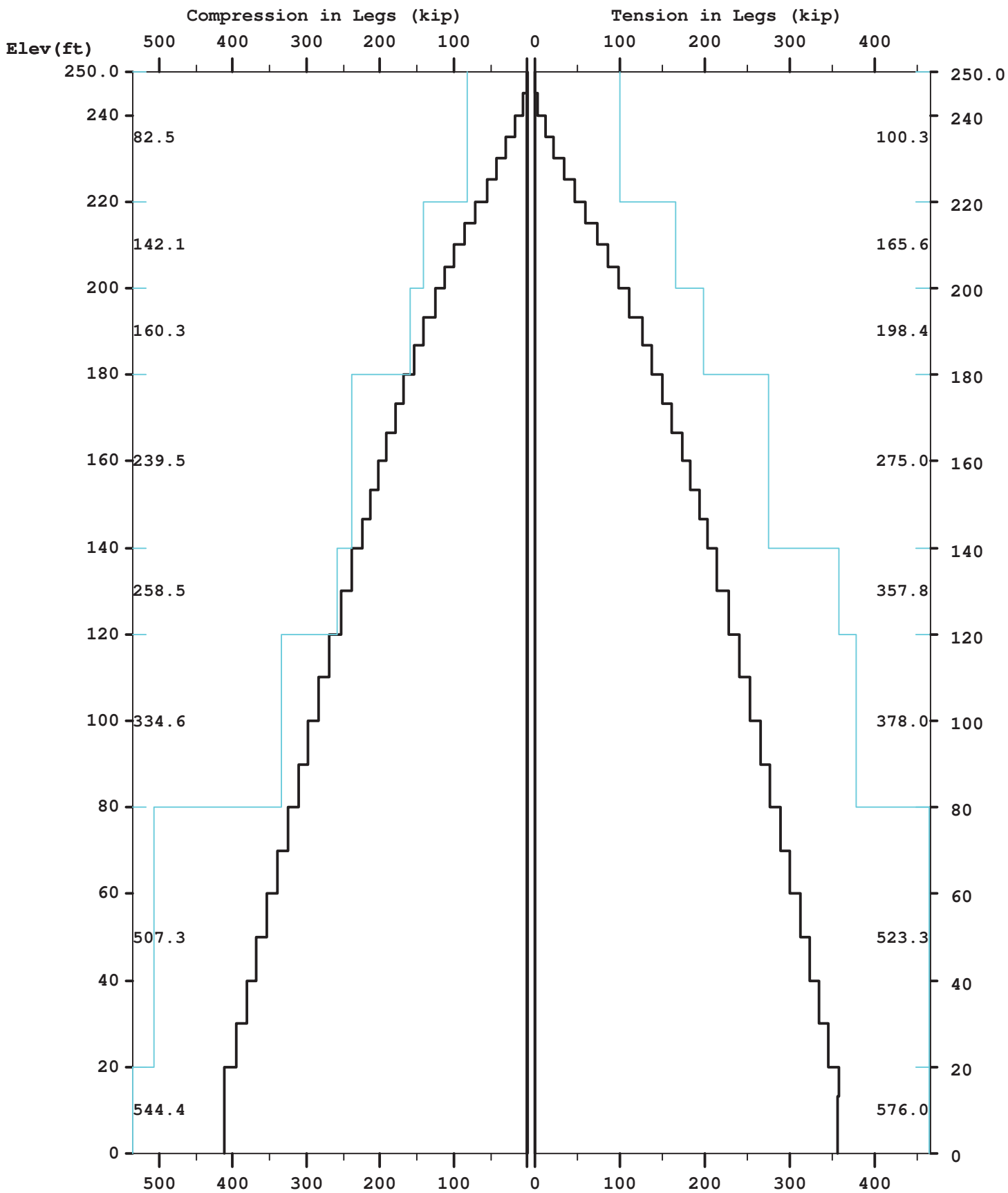
ELEVATION VIEW

(11.7 cu. yds.)
 (3 REQUIRED; NOT TO SCALE)

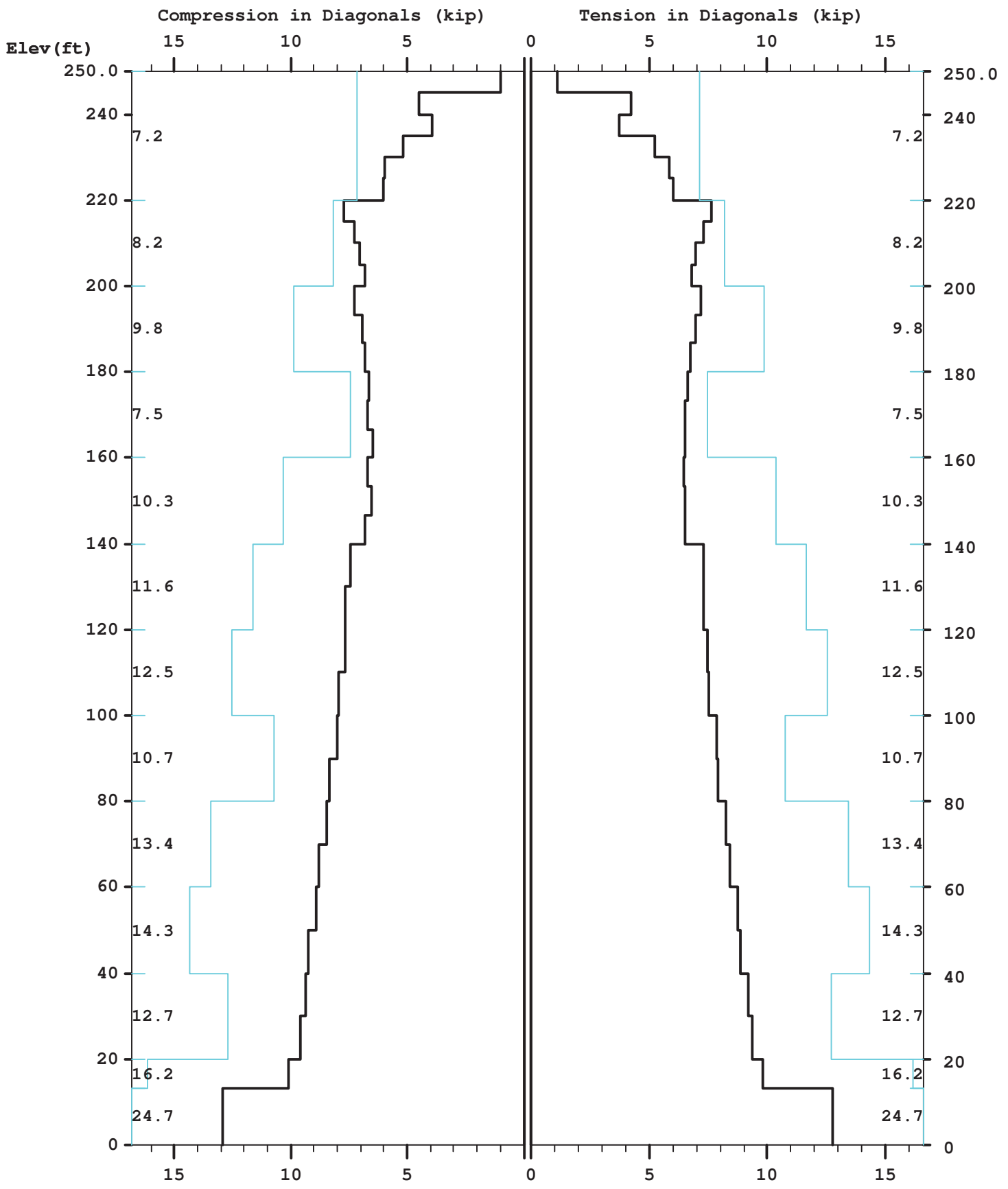
Rebar Schedule per Pier	
Pier	(16) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
Anchor Bolts per Leg	
	(6) 1.25" dia. x 63" F1554-105 on a 12.75" B.C. w/ 8" max. projection above concrete.

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Maximum

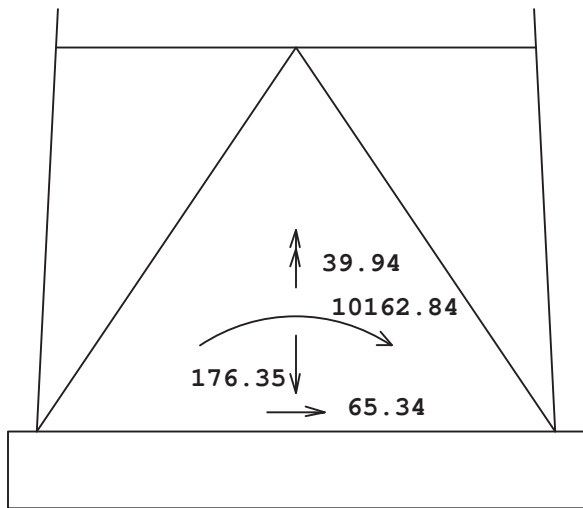


Maximum

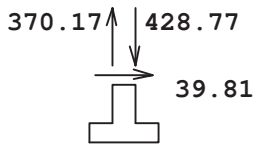
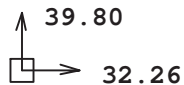


Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



Latticed Tower Analysis (Unguyed)
 Processed under license at:

(c)2015 Guymast Inc. 416-736-7453

Sabre Towers and Poles

on: 25 oct 2021 at: 8:41:08

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	245.00	250.00	5.00	5.00	5.00
X	3	240.00	245.00	5.00	5.00	5.00
X	3	235.00	240.00	5.50	5.00	5.00
X	3	220.00	235.00	7.00	5.50	5.00
X	3	200.00	220.00	9.00	7.00	5.00
X	3	180.00	200.00	11.00	9.00	6.67
X	3	160.00	180.00	13.00	11.00	6.67
X	3	140.00	160.00	15.00	13.00	6.67
X	3	120.00	140.00	17.00	15.00	10.00
X	3	100.00	120.00	19.00	17.00	10.00
X	3	80.00	100.00	21.00	19.00	10.00
X	3	60.00	80.00	23.00	21.00	10.00
X	3	40.00	60.00	25.00	23.00	10.00
X	3	20.00	40.00	27.00	25.00	10.00
V	3	13.33	20.00	27.67	27.00	6.67
A	3	0.00	13.33	29.00	27.67	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	220.00	250.00	2.228	1.164	29000.	0.0000117
LE	200.00	220.00	3.678	1.164	29000.	0.0000117
LE	180.00	200.00	4.407	1.164	29000.	0.0000117
LE	140.00	180.00	6.111	1.164	29000.	0.0000117
LE	120.00	140.00	7.952	1.164	29000.	0.0000117
LE	80.00	120.00	8.399	1.164	29000.	0.0000117
LE	0.00	80.00	12.763	1.164	29000.	0.0000117
DI	220.00	250.00	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	120.00	140.00	1.562	0.626	29000.	0.0000117
DI	80.00	120.00	1.688	0.626	29000.	0.0000117
DI	13.33	80.00	1.938	0.626	29000.	0.0000117
DI	0.00	13.33	2.062	0.626	29000.	0.0000117
HO	245.00	250.00	0.484	0.626	29000.	0.0000117
HO	235.00	240.00	0.484	0.626	29000.	0.0000117
HO	0.00	13.33	1.688	0.626	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
245.0	250.0	82.52	100.35	7.16	7.16	5.82	5.82	0.00	0.00
240.0	245.0	82.52	100.35	7.16	7.16	0.00	0.00	0.00	0.00
235.0	240.0	82.52	100.35	7.16	7.16	5.82	5.82	0.00	0.00
220.0	235.0	82.52	100.35	7.16	7.16	0.00	0.00	0.00	0.00
200.0	220.0	142.05	165.60	8.19	8.19	0.00	0.00	0.00	0.00
180.0	200.0	160.28	198.45	9.84	9.84	0.00	0.00	0.00	0.00
160.0	180.0	239.46	274.95	7.46	7.46	0.00	0.00	0.00	0.00
140.0	160.0	239.46	274.95	10.34	10.34	0.00	0.00	0.00	0.00
120.0	140.0	258.49	357.75	11.62	11.62	0.00	0.00	0.00	0.00
100.0	120.0	334.65	378.00	12.53	12.53	0.00	0.00	0.00	0.00
80.0	100.0	334.65	378.00	10.73	10.73	0.00	0.00	0.00	0.00

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60.0	80.0	507.33	523.32	13.43	13.43	0.00	0.00	0.00	0.00
40.0	60.0	507.33	523.32	14.31	14.31	0.00	0.00	0.00	0.00
20.0	40.0	507.33	523.32	12.68	12.68	0.00	0.00	0.00	0.00
13.3	20.0	544.40	576.00	16.16	16.16	0.00	0.00	0.00	0.00
0.0	13.3	544.40	576.00	24.72	24.72	11.36	11.36	7.41	7.41

=====
 * Only 3 condition(s) shown in full
 * Some wind loads may have been derived from full-scale wind tunnel testing
 =====

LOADING CONDITION A

106 mph Ultimate wind with no ice. Wind Azimuth: 0

MAST LOADING

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	245.0	0.00	0.0	0.0	8.45	7.20	0.00	0.00
C	233.0	0.00	0.0	0.0	6.26	4.80	0.00	0.00
C	221.0	0.00	0.0	0.0	6.19	4.80	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	245.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	245.0	0.00	42.0	0.0	0.10	0.06	0.03	0.06
D	235.0	0.00	39.7	0.0	0.11	0.07	0.03	0.06
D	235.0	0.00	35.1	0.0	0.11	0.07	0.05	0.08
D	220.0	0.00	39.2	0.0	0.13	0.08	0.06	0.09
D	220.0	0.00	43.0	0.0	0.14	0.12	0.08	0.10
D	200.0	0.00	47.9	0.0	0.15	0.13	0.07	0.10
D	200.0	0.00	42.9	0.0	0.16	0.14	0.10	0.11
D	180.0	0.00	46.3	0.0	0.16	0.14	0.08	0.11
D	180.0	0.00	39.1	0.0	0.16	0.17	0.11	0.12
D	160.0	0.00	41.5	0.0	0.17	0.17	0.10	0.11
D	160.0	0.00	36.2	0.0	0.18	0.18	0.13	0.12
D	140.0	0.00	38.0	0.0	0.18	0.19	0.12	0.12
D	140.0	0.00	34.2	0.0	0.16	0.22	0.14	0.13
D	120.0	0.00	35.2	0.0	0.17	0.22	0.14	0.13
D	120.0	0.00	32.4	0.0	0.18	0.23	0.16	0.13
D	100.0	0.00	33.3	0.0	0.18	0.24	0.15	0.13
D	100.0	0.00	31.0	0.0	0.18	0.24	0.18	0.14
D	80.0	0.00	31.7	0.0	0.18	0.24	0.17	0.13
D	80.0	0.00	29.9	0.0	0.18	0.32	0.20	0.14
D	60.0	0.00	30.4	0.0	0.19	0.32	0.19	0.14
D	60.0	0.00	28.9	0.0	0.18	0.33	0.21	0.13
D	40.0	0.00	29.3	0.0	0.18	0.33	0.20	0.13
D	40.0	0.00	28.1	0.0	0.17	0.33	0.23	0.12
D	20.0	0.00	28.5	0.0	0.17	0.34	0.22	0.13
D	20.0	0.00	27.3	0.0	0.14	0.31	0.25	0.12
D	13.3	0.00	27.3	0.0	0.14	0.31	0.25	0.12
D	13.3	0.00	27.6	0.0	0.17	0.39	0.24	0.12
D	0.0	0.00	27.6	0.0	0.17	0.39	0.24	0.12

ANTENNA LOADING

ANTENNA TYPE	ATTACHMENT				ANTENNA FORCES			
	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	201.0	90.0	6.6	120.0	0.05	-0.15	0.16	-0.22
STD+R	201.0	270.0	6.6	240.0	0.05	0.15	0.16	0.22

LOADING CONDITION M

106 mph Ultimate wind with no ice. Wind Azimuth: 0

MAST LOADING

22-2924-TJH

LOAD TYPE	ELEV ft	APPLY... RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	245.0	0.00	0.0	0.0	8.45	5.40	0.00	0.00
C	233.0	0.00	0.0	0.0	6.26	3.60	0.00	0.00
C	221.0	0.00	0.0	0.0	6.19	3.60	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	245.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	245.0	0.00	42.0	0.0	0.10	0.05	0.02	0.06
D	235.0	0.00	39.7	0.0	0.11	0.05	0.03	0.06
D	235.0	0.00	35.1	0.0	0.11	0.05	0.04	0.08
D	220.0	0.00	39.2	0.0	0.13	0.06	0.05	0.09
D	220.0	0.00	43.0	0.0	0.14	0.09	0.06	0.10
D	200.0	0.00	47.9	0.0	0.15	0.09	0.06	0.10
D	200.0	0.00	42.9	0.0	0.16	0.10	0.07	0.11
D	180.0	0.00	46.3	0.0	0.16	0.11	0.06	0.11
D	180.0	0.00	39.1	0.0	0.16	0.12	0.08	0.12
D	160.0	0.00	41.5	0.0	0.17	0.13	0.08	0.11
D	160.0	0.00	36.2	0.0	0.18	0.14	0.10	0.12
D	140.0	0.00	38.0	0.0	0.18	0.14	0.09	0.12
D	140.0	0.00	34.2	0.0	0.16	0.16	0.11	0.13
D	120.0	0.00	35.2	0.0	0.17	0.16	0.10	0.13
D	120.0	0.00	32.4	0.0	0.18	0.18	0.12	0.13
D	100.0	0.00	33.3	0.0	0.18	0.18	0.11	0.13
D	100.0	0.00	31.0	0.0	0.18	0.18	0.13	0.14
D	80.0	0.00	31.7	0.0	0.18	0.18	0.13	0.13
D	80.0	0.00	29.9	0.0	0.18	0.24	0.15	0.14
D	60.0	0.00	30.4	0.0	0.19	0.24	0.14	0.14
D	60.0	0.00	28.9	0.0	0.18	0.24	0.16	0.13
D	40.0	0.00	29.3	0.0	0.18	0.25	0.15	0.13
D	40.0	0.00	28.1	0.0	0.17	0.25	0.17	0.12
D	20.0	0.00	28.5	0.0	0.17	0.25	0.17	0.13
D	20.0	0.00	27.3	0.0	0.14	0.23	0.19	0.12
D	13.3	0.00	27.3	0.0	0.14	0.23	0.19	0.12
D	13.3	0.00	27.6	0.0	0.17	0.29	0.18	0.12
D	0.0	0.00	27.6	0.0	0.17	0.29	0.18	0.12

ANTENNA LOADING

=====

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT	ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	201.0	90.0	6.6	120.0	0.05	-0.15	0.12	-0.22
STD+R	201.0	270.0	6.6	240.0	0.05	0.15	0.12	0.22

LOADING CONDITION Y

30 mph wind with 1.5 ice. wind Azimuth: 0°

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY... RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	245.0	0.00	0.0	0.0	1.23	18.20	0.00	0.00
C	233.0	0.00	0.0	0.0	0.91	12.10	0.00	0.00
C	221.0	0.00	0.0	0.0	0.89	12.06	0.00	0.00
D	250.0	0.00	180.0	0.0	0.01	0.20	0.00	0.00
D	245.0	0.00	180.0	0.0	0.01	0.20	0.00	0.00
D	245.0	0.00	42.0	0.0	0.01	0.23	0.15	0.01
D	240.0	0.00	42.0	0.0	0.01	0.23	0.15	0.01
D	240.0	0.00	39.7	0.0	0.01	0.27	0.15	0.01
D	235.0	0.00	39.7	0.0	0.01	0.27	0.15	0.01
D	235.0	0.00	36.1	0.0	0.01	0.26	0.21	0.01
D	230.0	0.00	36.1	0.0	0.01	0.26	0.21	0.01
D	230.0	0.00	35.7	0.0	0.01	0.28	0.25	0.01
D	225.0	0.00	35.7	0.0	0.01	0.28	0.25	0.01
D	225.0	0.00	41.3	0.0	0.02	0.30	0.23	0.01
D	220.0	0.00	41.3	0.0	0.02	0.30	0.23	0.01

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D	220.0	0.00	50.4	0.0	0.02	0.38	0.27	0.01
D	215.0	0.00	50.4	0.0	0.02	0.38	0.27	0.01
D	215.0	0.00	52.3	0.0	0.02	0.38	0.26	0.01
D	210.0	0.00	52.3	0.0	0.02	0.38	0.26	0.01
D	210.0	0.00	54.2	0.0	0.02	0.39	0.25	0.01
D	200.0	0.00	56.0	0.0	0.02	0.40	0.24	0.01
D	200.0	0.00	51.4	0.0	0.02	0.42	0.31	0.01
D	193.3	0.00	51.4	0.0	0.02	0.42	0.31	0.01
D	193.3	0.00	53.2	0.0	0.02	0.42	0.29	0.01
D	186.7	0.00	53.2	0.0	0.02	0.42	0.29	0.01
D	186.7	0.00	55.1	0.0	0.02	0.43	0.28	0.01
D	180.0	0.00	55.1	0.0	0.02	0.43	0.28	0.01
D	180.0	0.00	47.1	0.0	0.02	0.46	0.36	0.01
D	173.3	0.00	47.1	0.0	0.02	0.46	0.36	0.01
D	173.3	0.00	48.4	0.0	0.02	0.47	0.35	0.01
D	166.7	0.00	48.4	0.0	0.02	0.47	0.35	0.01
D	166.7	0.00	49.8	0.0	0.02	0.48	0.33	0.01
D	160.0	0.00	49.8	0.0	0.02	0.48	0.33	0.01
D	160.0	0.00	43.9	0.0	0.02	0.51	0.42	0.01
D	153.3	0.00	43.9	0.0	0.02	0.51	0.42	0.01
D	153.3	0.00	44.9	0.0	0.02	0.52	0.40	0.01
D	146.7	0.00	44.9	0.0	0.02	0.52	0.40	0.01
D	146.7	0.00	45.9	0.0	0.02	0.53	0.38	0.01
D	140.0	0.00	45.9	0.0	0.02	0.53	0.38	0.01
D	140.0	0.00	41.6	0.0	0.02	0.52	0.46	0.01
D	130.0	0.00	41.6	0.0	0.02	0.52	0.46	0.01
D	130.0	0.00	42.8	0.0	0.02	0.53	0.44	0.01
D	120.0	0.00	42.8	0.0	0.02	0.53	0.44	0.01
D	120.0	0.00	39.6	0.0	0.02	0.57	0.52	0.01
D	110.0	0.00	39.6	0.0	0.02	0.57	0.52	0.01
D	110.0	0.00	40.6	0.0	0.02	0.58	0.49	0.01
D	100.0	0.00	40.6	0.0	0.02	0.58	0.49	0.01
D	100.0	0.00	37.9	0.0	0.02	0.59	0.57	0.01
D	90.0	0.00	37.9	0.0	0.02	0.59	0.57	0.01
D	90.0	0.00	38.7	0.0	0.02	0.59	0.54	0.01
D	80.0	0.00	38.7	0.0	0.02	0.59	0.54	0.01
D	80.0	0.00	36.5	0.0	0.02	0.68	0.61	0.01
D	60.0	0.00	37.2	0.0	0.02	0.69	0.59	0.01
D	60.0	0.00	35.2	0.0	0.02	0.70	0.66	0.01
D	40.0	0.00	35.8	0.0	0.02	0.70	0.63	0.01
D	40.0	0.00	33.9	0.0	0.02	0.70	0.69	0.01
D	20.0	0.00	34.5	0.0	0.02	0.70	0.67	0.01
D	20.0	0.00	29.4	0.0	0.02	0.54	0.33	0.01
D	13.3	0.00	29.4	0.0	0.02	0.54	0.33	0.01
D	13.3	0.00	32.5	0.0	0.02	0.77	0.56	0.01
D	0.0	0.00	32.5	0.0	0.02	0.77	0.56	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	201.0	90.0	6.6	120.0	0.00	-0.01	0.41	-0.02
STD+R	201.0	270.0	6.6	240.0	0.00	0.01	0.41	0.02

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV	AZI	TYPE BEAM DEFLECTIONS (deg)			
ft	deg	*	ROLL	YAW	PITCH	TOTAL
201.0	90.0	STD+R	1.072 J	0.090 L	-1.171 G	1.173 G
201.0	270.0	STD+R	-1.072 J	0.090 L	1.171 G	1.173 G

MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV	LEGS	DIAG	HORIZ	BRACE
ft				
250.0	-----		0.65 M	0.00 A
	0.50 S	1.13 G		
245.0	-----		0.11 G	0.00 A
	2.73 M	4.26 M		
240.0	-----		1.22 I	0.00 A
	12.82 M	3.74 T		

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235.0	----- 22.45 M 5.21 B	0.09 A	0.00 A	
230.0	----- 34.32 M 5.83 T	0.03 A	0.00 A	
225.0	----- 46.44 M 6.03 B	0.19 A	0.00 A	
220.0	----- 58.84 M 7.61 T	0.02 i	0.00 A	
215.0	----- 73.84 M 7.32 H	0.16 A	0.00 A	
210.0	----- 86.28 M 6.94 T	0.07 A	0.00 A	
205.0	----- 98.77 M 6.78 B	0.14 A	0.00 A	
200.0	----- 111.19 M 7.19 N	0.08 A	0.00 A	
193.3	----- 125.69 M 6.98 H	0.14 A	0.00 A	
186.7	----- 138.06 M 6.74 N	0.09 A	0.00 A	
180.0	----- 150.53 M 6.65 H	0.11 A	0.00 A	
173.3	----- 161.54 M 6.52 N	0.06 A	0.00 A	
166.7	----- 172.63 M 6.51 H	0.10 A	0.00 A	
160.0	----- 182.71 M 6.47 B	0.06 A	0.00 A	
153.3	----- 192.86 M 6.54 G	0.13 A	0.00 A	
146.7	----- 202.36 M 6.54 B	0.06 A	0.00 A	
140.0	----- 214.04 M 7.29 G	0.11 A	0.00 A	
130.0	----- 227.32 M 7.27 A	0.10 A	0.00 A	
120.0	----- 240.35 M 7.48 G	0.10 A	0.00 A	
110.0	----- 252.78 M 7.55 G	0.09 A	0.00 A	
100.0	----- 265.12 M 7.84 G	0.06 A	0.00 A	
90.0	----- 277.01 M 7.92 G	0.08 A	0.00 A	
80.0	----- 288.79 M 8.25 G	0.05 A	0.00 A	
70.0	----- 300.15 M 8.39 G	0.04 A	0.00 A	
60.0	----- 311.51 M 8.73 G	0.05 A	0.00 A	
50.0	----- 322.60 M 8.88 G	0.04 A	0.00 A	
40.0	----- 333.66 M 9.21 G	0.01 g	0.00 A	
30.0	----- 344.47 M 9.36 G	0.06 S	0.00 A	
20.0	----- 357.21 M 9.82 G	0.12 A	0.00 A	
13.3	----- 356.30 M 12.75 G	0.60 M	0.00 F	
0.0	-----	0.00 A	0.00 A	

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0	----- -0.81 A	-0.97 M	-0.76 G	0.00 A
245.0	----- -6.97 G	-4.48 G	-0.09 M	0.00 A
240.0	----- -17.34 G	-3.95 B	-1.09 W	0.00 A
235.0	-----		-0.04 S	0.00 A

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230.0	-29.30 G	-5.18 H	-0.01 S	0.00 A
225.0	-42.48 G	-5.94 B	-0.15 S	0.00 A
220.0	-55.68 G	-6.02 H	-0.01 Q	0.00 A
215.0	-70.66 G	-7.74 B	-0.13 S	0.00 A
210.0	-86.40 G	-7.26 N	-0.05 S	0.00 A
205.0	-99.23 G	-7.04 B	-0.12 S	0.00 A
200.0	-112.45 G	-6.80 H	-0.06 S	0.00 A
193.3	-125.53 G	-7.28 H	-0.12 S	0.00 A
186.7	-140.96 G	-6.95 B	-0.07 S	0.00 A
180.0	-154.17 G	-6.83 G	-0.10 S	0.00 A
173.3	-167.64 G	-6.63 B	-0.05 S	0.00 A
166.7	-179.63 G	-6.69 G	-0.08 S	0.00 A
160.0	-191.78 G	-6.49 B	-0.05 S	0.00 A
153.3	-202.93 G	-6.71 G	-0.11 S	0.00 A
146.7	-214.23 G	-6.55 G	-0.05 S	0.00 A
140.0	-224.88 G	-6.82 G	-0.10 S	0.00 A
130.0	-238.10 G	-7.46 G	-0.09 S	0.00 A
120.0	-253.35 G	-7.66 G	-0.09 S	0.00 A
110.0	-268.42 G	-7.68 G	-0.07 S	0.00 A
100.0	-282.98 G	-7.94 G	-0.05 S	0.00 A
90.0	-297.48 G	-8.02 G	-0.07 S	0.00 A
80.0	-311.58 G	-8.32 G	-0.05 S	0.00 A
70.0	-325.81 G	-8.43 G	-0.04 S	0.00 A
60.0	-339.87 G	-8.77 G	-0.04 S	0.00 A
50.0	-353.99 G	-8.92 G	-0.03 S	0.00 A
40.0	-367.89 G	-9.23 G	-0.01 e	0.00 A
30.0	-381.82 G	-9.35 G	-0.07 A	0.00 A
20.0	-395.53 G	-9.60 G	-0.10 S	0.00 A
13.3	-410.96 G	-10.10 G	-0.73 G	0.00 X
0.0	-412.17 G	-12.94 G	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
250.00	0.81	82.52	0.01	0.50	100.35	0.01
245.00	6.97	82.52	0.08	2.73	100.35	0.03
240.00	17.34	82.52	0.21	12.82	100.35	0.13
235.00	29.30	82.52	0.36	22.45	100.35	0.22
230.00	42.48	82.52	0.51	34.32	100.35	0.34

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225.00	55.68	82.52	0.67	46.44	100.35	0.46
220.00	70.66	142.05	0.50	58.84	165.60	0.36
215.00	86.40	142.05	0.61	73.84	165.60	0.45
210.00	99.23	142.05	0.70	86.28	165.60	0.52
205.00	112.45	142.05	0.79	98.77	165.60	0.60
200.00	125.53	160.28	0.78	111.19	198.45	0.56
193.33	140.96	160.28	0.88	125.69	198.45	0.63
186.67	154.17	160.28	0.96	138.06	198.45	0.70
180.00	167.64	239.46	0.70	150.53	274.95	0.55
173.33	179.63	239.46	0.75	161.54	274.95	0.59
166.67	191.78	239.46	0.80	172.63	274.95	0.63
160.00	202.93	239.46	0.85	182.71	274.95	0.66
153.33	214.23	239.46	0.89	192.86	274.95	0.70
146.67	224.88	239.46	0.94	202.36	274.95	0.74
140.00	238.10	258.49	0.92	214.04	357.75	0.60
130.00	253.35	258.49	0.98	227.32	357.75	0.64
120.00	268.42	334.65	0.80	240.35	378.00	0.64
110.00	282.98	334.65	0.85	252.78	378.00	0.67
100.00	297.48	334.65	0.89	265.12	378.00	0.70
90.00	311.58	334.65	0.93	277.01	378.00	0.73
80.00	325.81	507.33	0.64	288.79	523.32	0.55
70.00	339.87	507.33	0.67	300.15	523.32	0.57
60.00	353.99	507.33	0.70	311.51	523.32	0.60
50.00	367.89	507.33	0.73	322.60	523.32	0.62
40.00	381.82	507.33	0.75	333.66	523.32	0.64
30.00	395.53	507.33	0.78	344.47	523.32	0.66
20.00	410.96	544.40	0.75	357.21	576.00	0.62
13.33	412.17	544.40	0.76	356.30	576.00	0.62
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
250.00	0.97	7.16	0.13	1.13	7.16	0.16
245.00	4.48	7.16	0.63	4.26	7.16	0.60
240.00	3.95	7.16	0.55	3.74	7.16	0.52
235.00	5.18	7.16	0.72	5.21	7.16	0.73
230.00	5.94	7.16	0.83	5.83	7.16	0.81
225.00	6.02	7.16	0.84	6.03	7.16	0.84
220.00	7.74	8.19	0.94	7.61	8.19	0.93

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215.00	7.26	8.19	0.89	7.32	8.19	0.89
210.00	7.04	8.19	0.86	6.94	8.19	0.85
205.00	6.80	8.19	0.83	6.78	8.19	0.83
200.00	7.28	9.84	0.74	7.19	9.84	0.73
193.33	6.95	9.84	0.71	6.98	9.84	0.71
186.67	6.83	9.84	0.69	6.74	9.84	0.68
180.00	6.63	7.46	0.89	6.65	7.46	0.89
173.33	6.69	7.46	0.90	6.52	7.46	0.87
166.67	6.49	7.46	0.87	6.51	7.46	0.87
160.00	6.71	10.34	0.65	6.47	10.34	0.63
153.33	6.55	10.34	0.63	6.54	10.34	0.63
146.67	6.82	10.34	0.66	6.54	10.34	0.63
140.00	7.46	11.62	0.64	7.29	11.62	0.63
130.00	7.66	11.62	0.66	7.27	11.62	0.63
120.00	7.68	12.53	0.61	7.48	12.53	0.60
110.00	7.94	12.53	0.63	7.55	12.53	0.60
100.00	8.02	10.73	0.75	7.84	10.73	0.73
90.00	8.32	10.73	0.78	7.92	10.73	0.74
80.00	8.43	13.43	0.63	8.25	13.43	0.61
70.00	8.77	13.43	0.65	8.39	13.43	0.62
60.00	8.92	14.31	0.62	8.73	14.31	0.61
50.00	9.23	14.31	0.64	8.88	14.31	0.62
40.00	9.35	12.68	0.74	9.21	12.68	0.73
30.00	9.60	12.68	0.76	9.36	12.68	0.74
20.00	10.10	16.16	0.63	9.82	16.16	0.61
13.33	12.94	24.72	0.52	12.75	24.72	0.52
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD-COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
39.80 G	32.26 K	428.77 G	-370.17 M	39.81 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
65.3 G	55.3 J	65.3 G	176.4 a	10162.8 G	8911.2 J	10162.8 G	39.9 X

 ***** 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

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY..LOAD. RADIUS ft	.AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	245.0	0.00	0.0	0.0	2.83	6.00	0.00	0.00
C	233.0	0.00	0.0	0.0	2.09	4.00	0.00	0.00
C	221.0	0.00	0.0	0.0	2.07	4.00	0.00	0.00
D	250.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00
D	245.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00
D	245.0	0.00	42.0	0.0	0.03	0.05	0.03	0.02
D	235.0	0.00	39.7	0.0	0.04	0.06	0.03	0.02
D	235.0	0.00	35.1	0.0	0.04	0.06	0.05	0.03
D	220.0	0.00	39.2	0.0	0.04	0.07	0.05	0.03
D	220.0	0.00	43.0	0.0	0.05	0.10	0.07	0.03
D	200.0	0.00	47.9	0.0	0.05	0.11	0.06	0.03
D	200.0	0.00	42.9	0.0	0.05	0.12	0.08	0.04
D	180.0	0.00	46.3	0.0	0.05	0.12	0.07	0.04
D	180.0	0.00	39.1	0.0	0.06	0.14	0.09	0.04
D	160.0	0.00	41.5	0.0	0.06	0.14	0.08	0.04
D	160.0	0.00	36.2	0.0	0.06	0.15	0.11	0.04
D	140.0	0.00	38.0	0.0	0.06	0.16	0.10	0.04
D	140.0	0.00	34.2	0.0	0.06	0.18	0.12	0.04
D	120.0	0.00	35.2	0.0	0.06	0.18	0.11	0.04
D	120.0	0.00	32.4	0.0	0.06	0.19	0.13	0.04
D	100.0	0.00	33.3	0.0	0.06	0.20	0.13	0.04
D	100.0	0.00	31.0	0.0	0.06	0.20	0.15	0.05
D	80.0	0.00	31.7	0.0	0.06	0.20	0.14	0.05
D	80.0	0.00	29.9	0.0	0.06	0.26	0.16	0.05
D	60.0	0.00	30.4	0.0	0.06	0.27	0.16	0.05
D	60.0	0.00	28.9	0.0	0.06	0.27	0.18	0.04
D	40.0	0.00	29.3	0.0	0.06	0.27	0.17	0.05
D	40.0	0.00	28.1	0.0	0.06	0.28	0.19	0.04
D	20.0	0.00	28.5	0.0	0.06	0.28	0.19	0.04
D	20.0	0.00	27.3	0.0	0.05	0.26	0.21	0.04
D	13.3	0.00	27.3	0.0	0.05	0.26	0.21	0.04
D	13.3	0.00	27.6	0.0	0.06	0.32	0.20	0.04
D	0.0	0.00	27.6	0.0	0.06	0.32	0.20	0.04

ANTENNA LOADING

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.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT	ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	201.0	90.0	6.6	120.0	0.02	-0.05	0.13	-0.08
STD+R	201.0	270.0	6.6	240.0	0.02	0.05	0.13	0.08

MAXIMUM MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			22-2924-TJH --TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
250.0	0.994 G	-0.904 D	0.014 G	0.504 G	-0.467 D	0.041 L
245.0	0.950 G	-0.863 D	0.013 G	0.505 G	-0.467 D	0.041 L
240.0	0.905 G	-0.821 D	0.013 G	0.502 G	-0.465 D	0.040 L
235.0	0.861 G	-0.780 D	0.013 G	0.496 G	-0.459 D	0.039 L
230.0	0.817 G	-0.739 D	0.012 G	0.486 G	-0.449 D	0.038 L
225.0	0.773 G	-0.699 D	0.012 G	0.471 G	-0.435 D	0.037 L
220.0	0.732 G	-0.661 D	0.011 G	0.454 G	-0.418 D	0.035 L
215.0	0.692 G	-0.624 D	0.011 G	0.441 G	-0.405 D	0.034 L
210.0	0.653 G	-0.588 D	0.011 G	0.426 G	-0.391 D	0.032 L
205.0	0.615 G	-0.554 D	0.010 G	0.409 G	-0.375 D	0.031 L
200.0	0.580 G	-0.521 D	0.010 G	0.391 G	-0.359 D	0.030 L
193.3	0.534 G	-0.479 D	0.009 G	0.370 G	-0.338 D	0.028 L
186.7	0.491 G	-0.440 D	0.009 G	0.348 G	-0.317 D	0.026 L
180.0	0.451 G	-0.404 D	0.008 G	0.325 G	0.296 J	0.025 L
173.3	0.413 G	-0.369 D	0.008 G	0.308 G	0.280 J	0.023 L
166.7	0.377 G	-0.337 D	0.008 G	0.291 G	0.264 J	0.022 L
160.0	0.343 G	-0.306 D	0.007 G	0.273 G	0.247 J	0.020 L
153.3	0.312 G	0.277 J	0.007 G	0.256 G	0.231 J	0.019 L
146.7	0.282 G	0.251 J	0.007 G	0.238 G	0.215 J	0.017 L
140.0	0.255 G	0.226 J	0.006 G	0.220 G	0.198 J	0.016 L
130.0	0.217 G	-0.192 D	0.006 G	0.200 G	0.179 J	0.014 L
120.0	0.183 G	-0.162 D	0.005 G	0.179 G	0.160 J	0.013 L
110.0	0.153 G	-0.135 D	0.005 G	0.159 G	0.142 J	0.012 L
100.0	0.126 G	-0.111 D	0.005 G	0.140 G	0.125 J	0.011 L
90.0	0.102 G	-0.090 D	0.004 G	0.120 G	0.107 J	0.010 L
80.0	0.082 G	-0.072 D	0.004 L	0.101 G	0.089 J	0.008 L
70.0	0.064 G	-0.056 D	0.003 L	0.088 G	0.078 J	0.007 L
60.0	0.049 G	-0.042 D	0.003 L	0.075 G	0.067 J	0.006 L
50.0	0.035 G	-0.031 D	0.002 L	0.063 G	0.056 J	0.005 L
40.0	0.024 G	-0.021 D	0.002 L	0.050 G	0.044 J	0.004 L
30.0	0.014 G	-0.012 D	0.002 H	0.038 G	0.033 J	0.003 L
20.0	0.005 G	-0.004 D	0.001 I	0.025 G	0.022 J	0.002 L
13.3	0.002 G	-0.002 D	0.001 H	0.017 G	0.015 J	0.001 L
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:

ELEV ft	AZI deg	TYPE *BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
201.0	90.0	STD+R	-0.362 D	0.030 L	-0.395 G	0.396 G
201.0	270.0	STD+R	0.362 D	0.030 L	0.395 G	0.396 G

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0	-----	-----	0.18 A	0.00 A
245.0	0.07 G	0.42 G	0.04 G	0.00 A
240.0	0.00 A	1.37 A	0.45 I	0.00 A
235.0	2.87 A	1.19 B	0.04 A	0.00 A
230.0	5.38 A	1.76 H	0.01 A	0.00 A
225.0	8.99 A	1.93 H	0.08 A	0.00 A
220.0	12.76 A	2.03 H	0.01 K	0.00 A
215.0	16.14 A	2.52 B	0.06 I	0.00 A
210.0	21.00 A	2.48 H	0.03 A	0.00 A
205.0	25.12 A	2.30 H	0.05 E	0.00 A
200.0	29.14 A	2.29 H	0.04 A	0.00 A
193.3	33.18 A	2.41 B	0.04 A	0.00 A
186.7	37.87 A	2.35 H	0.05 A	0.00 A
	-----	-----	0.04 A	0.00 A

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180.0	41.86 A	2.25 B	0.04 A	0.00 A
173.3	45.84 A	2.25 H	0.02 A	0.00 A
166.7	49.36 A	2.19 B	0.04 A	0.00 A
160.0	52.87 A	2.20 H	0.02 A	0.00 A
153.3	56.07 A	2.18 B	0.05 A	0.00 A
146.7	59.27 A	2.21 G	0.02 A	0.00 A
140.0	62.25 A	2.21 B	0.04 A	0.00 A
130.0	65.89 A	2.46 G	0.04 A	0.00 A
120.0	69.99 A	2.46 A	0.04 A	0.00 A
110.0	73.99 A	2.53 G	0.03 A	0.00 A
100.0	77.79 A	2.56 G	0.02 A	0.00 A
90.0	81.55 A	2.67 G	0.03 A	0.00 A
80.0	85.17 A	2.70 G	0.02 A	0.00 A
70.0	88.68 A	2.82 G	0.02 A	0.00 A
60.0	91.99 A	2.87 G	0.02 A	0.00 A
50.0	95.28 A	2.99 G	0.02 A	0.00 A
40.0	98.49 A	3.04 G	0.00 G	0.00 A
30.0	101.67 A	3.16 G	0.02 G	0.00 A
20.0	104.78 A	3.22 G	0.05 A	0.00 A
13.3	108.67 A	3.37 G	0.18 A	0.00 C
0.0	107.66 A	4.38 G	0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0			-0.29 G	0.00 A
245.0	-0.36 A	-0.27 A	-0.02 A	0.00 A
240.0	-3.53 G	-1.56 G	-0.33 C	0.00 A
235.0	-7.08 G	-1.38 B	0.00 A	0.00 A
230.0	-11.73 G	-1.73 B	0.00 A	0.00 A
225.0	-16.49 G	-2.03 H	-0.03 G	0.00 A
220.0	-21.20 G	-2.02 B	0.00 A	0.00 A
215.0	-26.91 G	-2.64 H	-0.04 G	0.00 A
210.0	-32.37 G	-2.42 B	-0.01 C	0.00 A
205.0	-36.73 G	-2.39 B	-0.04 G	0.00 A
200.0	-41.32 G	-2.28 H	-0.01 K	0.00 A
193.3	-45.84 G	-2.46 H	-0.03 G	0.00 A
186.7	-51.20 G	-2.34 B	-0.02 G	0.00 A
	-55.79 G	-2.31 G		

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180.0	-60.51 G	-2.24 B	-0.03 G	0.00 A
173.3	-64.74 G	-2.27 G	-0.01 G	0.00 A
166.7	-69.04 G	-2.19 B	-0.02 G	0.00 A
160.0	-72.99 G	-2.28 G	-0.01 G	0.00 A
153.3	-77.03 G	-2.22 G	-0.03 G	0.00 A
146.7	-80.84 G	-2.32 G	-0.01 G	0.00 A
140.0	-85.61 G	-2.54 G	-0.03 G	0.00 A
130.0	-91.15 G	-2.61 G	-0.02 G	0.00 A
120.0	-96.65 G	-2.62 G	-0.02 G	0.00 A
110.0	-102.00 G	-2.71 G	-0.02 G	0.00 A
100.0	-107.35 G	-2.75 G	-0.01 G	0.00 A
90.0	-112.58 G	-2.85 G	-0.02 G	0.00 A
80.0	-117.92 G	-2.91 G	-0.01 G	0.00 A
70.0	-123.27 G	-3.02 G	-0.01 G	0.00 A
60.0	-128.66 G	-3.08 G	-0.01 G	0.00 A
50.0	-133.98 G	-3.18 G	-0.01 G	0.00 A
40.0	-139.33 G	-3.23 G	0.00 A	0.00 A
30.0	-144.61 G	-3.31 G	-0.03 A	0.00 A
20.0	-150.37 G	-3.50 G	-0.03 G	0.00 A
13.3	-151.38 G	-4.47 G	-0.27 G	0.00 A
0.0			0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD		COMPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
14.24 G	11.59 K	157.53 G	-111.99 A	14.24 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@				@	
		0.0				0.0	
22.2 G	-18.9 D	22.2 G	60.3 A	3451.7 G	-3033.2 D	3451.7 G	13.4 L

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	250	3.500 OD X .216						6	0.75	6.50	0.75	8.50
220	240	3.500 OD X .216	6	0.75	6.50	1.00	8.50	6	1.00	9.00	1.25	11.50
200	220	4.000 OD X .318	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
180	200	4.500 OD X .337	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
140	160	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
120	140	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	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 .322	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	250	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	0.625	1.500		1.375	0.375
140	160	L 3 X 3 X 3/16	1	0.750	1.500		1.750	0.375
120	140	L 3 1/2 X 3 X 1/4 (SLV)	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 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
60	80	L 4 X 4 X 1/4	1	0.750	1.625		2.000	0.375
40	60	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
20	40	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
13.33	20	L 4 X 4 X 1/4	2	0.750	1.625	2.5000	2.000	0.500
0	13.33	L 5 X 3 1/2 X 1/4 (SLV)	2	0.750	1.625	2.5000	1.750	0.500

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

250' S3TL Series HD1 TILLMAN INFRASTRUCTURE, LLC TI-OPP-17997, KY (22-2924-TJH) 10/25/21 DO

Overall Loads:			
Factored Moment (ft-kips)	10162.84		
Factored Axial (kips)	176.35		
Factored Shear (kips)	65.34		
Individual Leg Loads:			
Factored Uplift (kips)	370.00	Tower eccentric from mat (ft)=	2.25
Factored Download (kips)	429.00		
Factored Shear (kips)	40.00		
Width of Tower (ft)	29	Allowable Bearing Pressure (ksf)	4.81
Ultimate Bearing Pressure	9.62	Safety Factor	2.00
Bearing Φ s	0.75		
Bearing Design Strength (ksf)	7.215	Max. Factored Net Bearing Pressure (ksf)	3.57
Water Table Below Grade (ft)	999		
Width of Mat (ft)	35	Minimum Mat Width (ft)	34.89
Thickness of Mat (ft)	1.75		
Depth to Bottom of Slab (ft)	5		
Bolt Circle Diameter (in)	12.75		
Top of Concrete to Top of Bottom Threads (in)	52.125	Minimum Pier Diameter (ft)	2.40
Diameter of Pier (ft)	2.5	Equivalent Square b (ft)	2.22
Ht. of Pier Above Ground (ft)	0.5		
Ht. of Pier Below Ground (ft)	3.25		
Quantity of Bars in Mat	68		
Bar Diameter in Mat (in)	1		
Area of Bars in Mat (in ²)	53.41	Recommended Spacing (in)	6 to 12
Spacing of Bars in Mat (in)	6.16		
Quantity of Bars Pier	12		
Bar Diameter in Pier (in)	1.27	Minimum Pier A _s (in ²)	3.53
Tie Bar Diameter in Pier (in)	0.5	Recommended Spacing (in)	5 to 12
Spacing of Ties (in)	12		
Area of Bars in Pier (in ²)	15.20		
Spacing of Bars in Pier (in)	5.62		
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)	81.44		

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES (CONTINUED)

Two-Way Shear:

Average d (in)	17		
ϕv_c (ksi)	0.228	v_u (ksi)	0.185
$\phi v_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.342		
$\phi v_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.380		
$\phi v_c = \phi 4f'_c{}^{1/2}$	0.228		
Shear perimeter, b_o (in)	145.83		
β_c	1		

Stability:

Overturning Design Strength (ft-k)	12789.6	Factored Overturning Moment (ft-k)	10522.2
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One-Way Shear:

ϕV_c (kips)	814.2	V_u (kips)	497.6
Pier Design:			
Design Tensile Strength (kips)	820.9	T_u (kips)	370.0
ϕV_n (kips)	40.1	V_u (kips)	40.0
$\phi V_c = \phi 2(1 + N_u/(500A_g))f'_c{}^{1/2}b_w d$	0.0		
V_s (kips)	47.1	V_s (kips)	193.2
Maximum Spacing (in)	12.00	*** V_s max = $4 f'_c{}^{1/2}b_w d$ (kips)	
Actual Hook Development (in)	16.00	(Only if Shear Ties are Required)	
		Req'd Hook Development l_{dh} (in)	15.90
		*** Ref. ACI 11.5.5 & 11.5.6.3	

Anchor Bolt Pull-Out:

$\phi P_c = \phi \lambda (2/3)f'_c{}^{1/2}(2.8A_{SLOPE} + 4A_{FLAT})$	106.6	P_u (kips)	370.0
Pier Rebar Development Length (in)	44.64	Required Length of Development (in)	25.60

Flexure in Slab:

ϕM_n (ft-kips)	3846.0	M_u (ft-kips)	3808.1
a (in)	1.99		
Steel Ratio	0.00748		
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

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES

250' S3TL Series HD1 TILLMAN INFRASTRUCTURE, LLC TI-OPP-17997, KY (22-2924-TJH) 10/25/21 DO

Factored Uplift (kips)	370		
Factored Download (kips)	429		
Factored Shear (kips)	40		
Ultimate Bearing Pressure	53.08		
Bearing Φ_s	0.75		
Bearing Design Strength (ksf)	39.81		
Water Table Below Grade (ft)	999		
Bolt Circle Diameter (in)	12.75		
Top of Concrete to Top of Bottom Threads (in)	52.125		
Pier Diameter (ft)	3	Minimum Pier Diameter (ft)	2.40
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	44		
Rebar Quantity	16		
Rebar Diameter (in)	1.27		
Rebar Area (in ²)	20.27	Minimum Area of Steel (in ²)	5.09
Rebar Spacing (in)	5.41		
Tie Diameter (in)	0.5		
Tie Spacing (in)	12		
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Concrete (kcf)	0.15		
Volume of Concrete (yd ³)	11.65		

Length to ignore download (ft)

Ignore bottom length in download?

0

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	Ult. Skin Friction (Uplift)	γ (kcf)
3	0.00	0.00	0.11
4	0.16	0.16	0.11
6	0.82	0.82	0.11
9	1.37	1.37	0.11
14	1.37	1.37	0.11
19	0.82	0.82	0.11
24	1.06	0.79	0.11
29	1.33	1.00	0.11
34	1.61	1.20	0.11
39	1.88	1.41	0.11
44	2.15	1.61	0.11
49	2.42	1.82	0.11
50	2.59	1.94	0.11

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES (CONTINUED)

Download:

Φ_s , Download Friction	0.75		
Q_f , Skin Friction (kips)	537.3	W_s (kips)	34.2
Q_b , End Bearing Strength (kips)	375.2	W_c (kips)	47.2
Download Design Strength (kips)	684.4	Factored Net Download (kips)	444.6

Uplift (skin friction):

Φ_s , Uplift	0.75		
Q_f , Skin Friction (kips)	442.1		
W_c (kips)	47.2		
W_w (kips)	0.0		
Uplift Design Strength (kips)	374.1	Factored Uplift (kips)	370.0

Uplift (cone):

$W_{s,cone}$ (kips)	3850.2		
$W_{w,cone}$ (kips)	0.0		
W_c (kips)	47.2		
$W_{w,cyl}$ (kips)	0.0		
Uplift Design Strength (kips)	3507.7	Factored Uplift (kips)	370.0

Tension:

Design Tensile Strength (kips)	1094.5	T_u (kips)	370.0
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Shear:

ϕV_n (kips)	80.3	V_u (kips)	40.0
$\phi V_c = \phi 2(1 + N_u / (500A_g)) f'_c{}^{1/2} b_w d$ (kips)	32.3		
V_s (kips)	56.5	*** $V_s \text{ max} = 4 f'_c{}^{1/2} b_w d$ (kips)	278.2
Maximum Spacing (in)	13.01	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	

Anchor Bolt Pull-Out:

$\phi P_c = \phi \lambda (2/3) f'_c{}^{1/2} (2.8A_{SLOPE} + 4A_{FLAT})$	153.4	P_u (kips)	370.0
Rebar Development Length (in)	41.64	Required Development Length (in)	19.20

Condition	1 is OK, 0 Fails
Download	1
Uplift	1
Area of Steel	1
Shear	1
Anchor Bolt Pull-Out	1
Interaction Diagram	1

EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

- Search for the utility of interest by using any single or combination of criteria.
- Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
				▼ Active ▼
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
<input type="button" value="View"/>	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	A	Safety Harbor	FL
<input type="button" value="View"/>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<input type="button" value="View"/>	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
<input type="button" value="View"/>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
<input type="button" value="View"/>	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
<input type="button" value="View"/>	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
<input type="button" value="View"/>	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
<input type="button" value="View"/>	4107600	Boomerang Wireless, LLC	Cellular	C	Hiawatha	IA

View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4111150	Comcast OTR1, LLC	Cellular	B	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	D	Long Island City	NY
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	D	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4112400	Excess Telecom Inc.	Cellular	C	Beverly Hills	CA
View	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Provo	UT
View	4112300	Gen Mobile Inc.	Cellular	C	Redondo Beach	CA
View	4109350	Global Connection Inc. of America	Cellular	D	Newport	KY
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
View	4112050	GLOTELL US, Corp.	Cellular	D	Hallandale	FL
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	C	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY

View	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
View	4109550	Kynect Communications, LLC	Cellular	D	Dallas	TX
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	A	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	C	Westlake Village	CA
View	4112450	Matrix Telecom, LLC dba Excel Telecommunications	Cellular	C	Irving	TX
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	D	Costa Mesa	CA
View	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
View	4111850	Mobi, Inc.	Cellular	D	Honolulu	HI
View	4109400	NetZero Wireless, Inc. dba magicJack Wireless	Cellular	D	Westlake Village	CA
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	4112350	NewPhone Wireless, L.L.C.	Cellular	C	Houston	TX
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4110700	Norcell, LLC	Cellular	D	Buford	GA
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular	D	Irving	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4107700	Puretalk Holdings, Inc.	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	C	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	A	Raleigh	NC
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	B	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
	4202200	T-Mobile Central, LLC dba T-	Cellular	A	Bellevue	WA

View		Mobile				
View	4002500	TAG Mobile, LLC	Cellular	D	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	D	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	C	Atlanta	GA
View	4109000	Ting, Inc.	Cellular	B	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4112250	TROOMI WIRELESS, Inc.	Cellular	C	Lehi	UT
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

EXHIBIT E
FAA



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

Aeronautical Study No.
 2021-ASO-15664-OE

Issued Date: 07/16/2021

Donna-Marie Stipo
 Tillman Infrastructure, LLC
 152 West 57th Street
 8th Floor
 New York, NY 10019

**** 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 Sedalia KY - TI-17997
 Location: Sedalia, KY
 Latitude: 36-38-16.29N NAD 83
 Longitude: 88-36-09.62W
 Heights: 518 feet site elevation (SE)
 265 feet above ground level (AGL)
 783 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:

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 Airmen (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)

This determination expires on 01/16/2023 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, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-ASO-15664-OE.

Signature Control No: 479367760-488282588
Angelique Eersteling
Technician

(DNE)

Attachment(s)
Case Description
Frequency Data
Map(s)

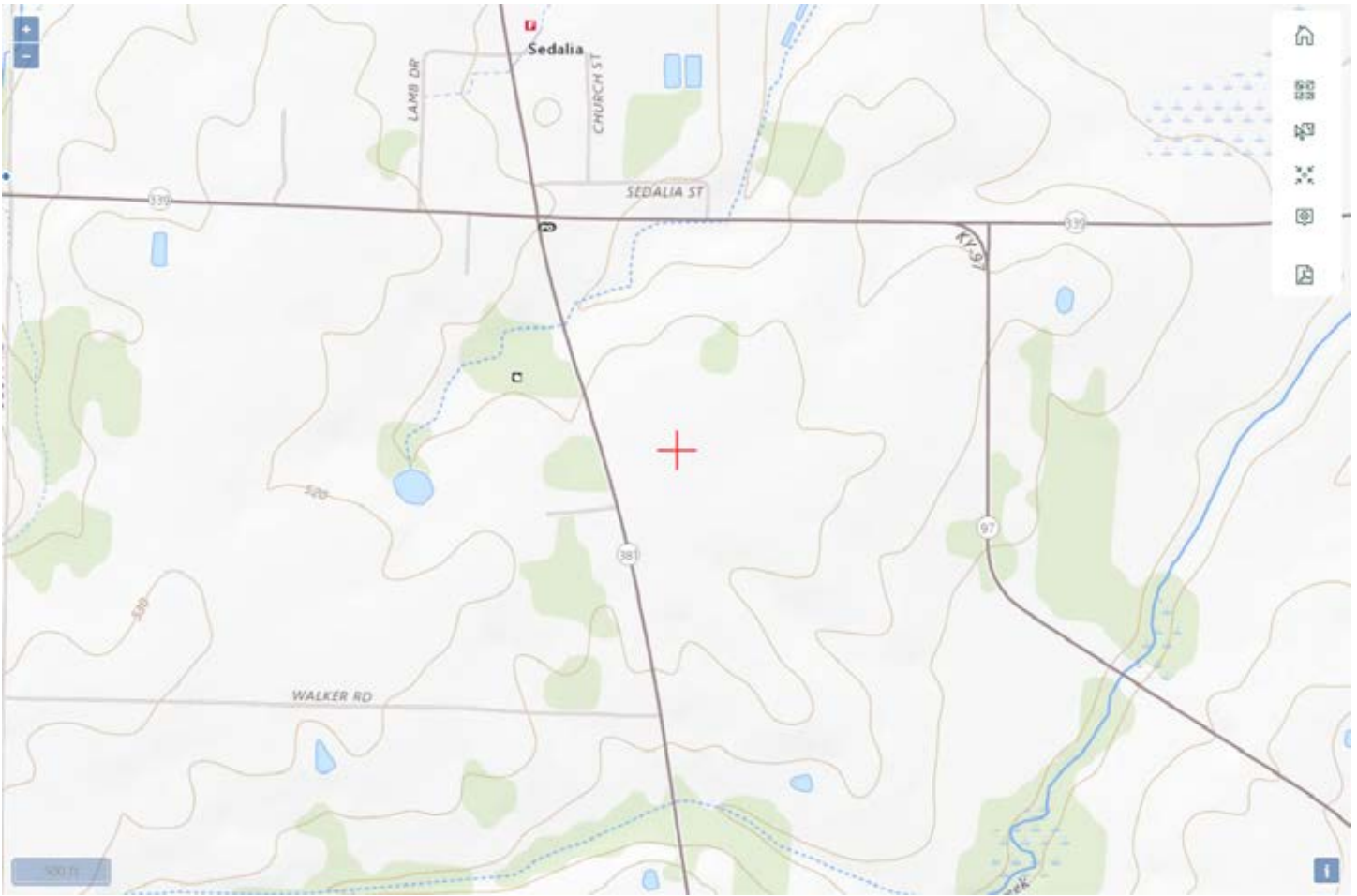
cc: FCC

Case Description for ASN 2021-ASO-15664-OE

Study request for a new self-support tower for communication services.

Frequency Data for ASN 2021-ASO-15664-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	1000	W
614	698	MHz	2000	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





Sectional Map for ASN 2021-ASO-15664-OE

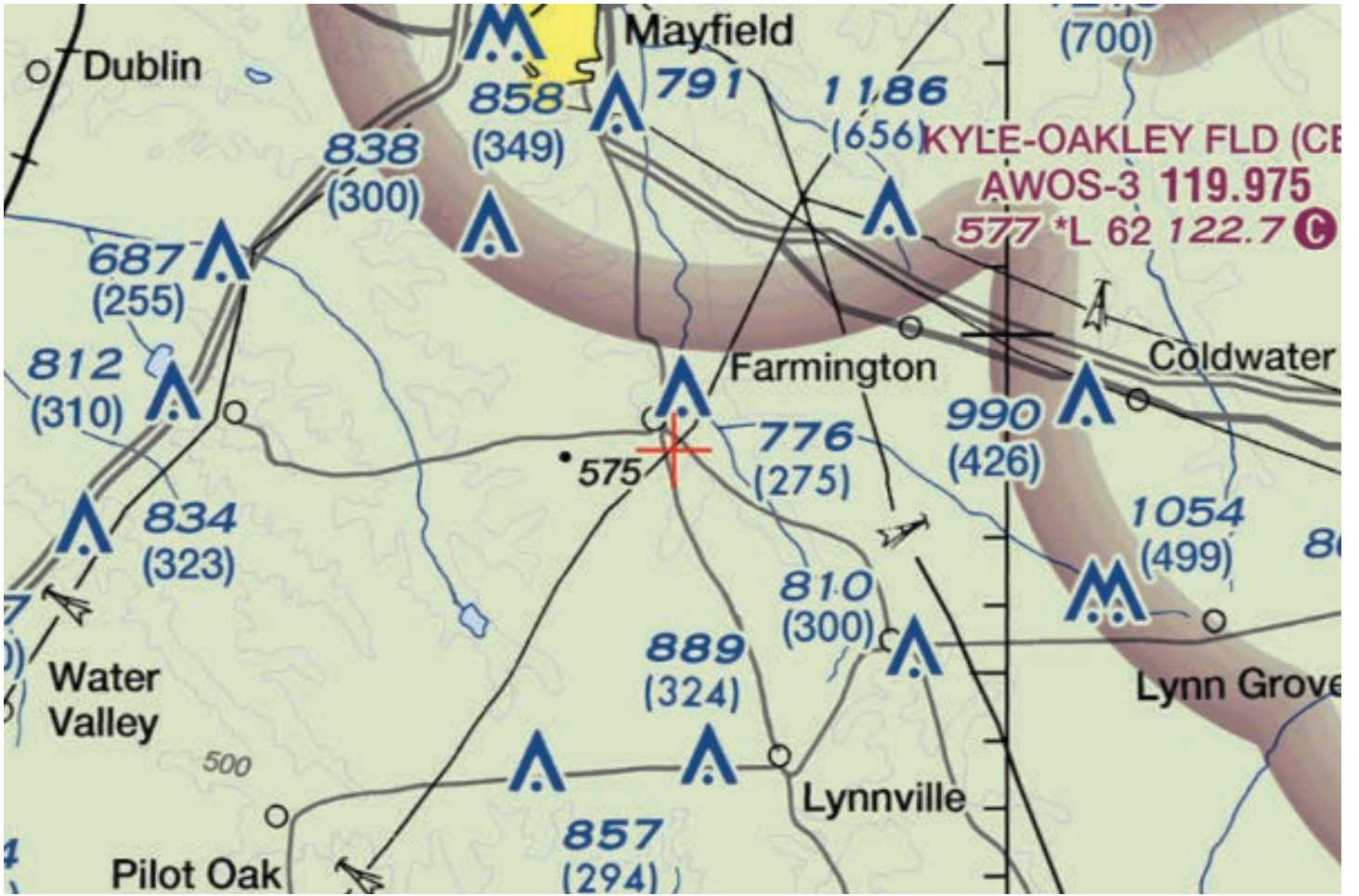


EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Office of Audits, 200 Mero Street, 4th floor
Frankfort, KY 40622
www.transportation.ky.gov
502-782-4043

JIM GRAY
Secretary

APPROVAL OF APPLICATION

October 26, 2021

APPLICANT

Tillman Infrastructure
Tillman Infrastructure
147 West 57th Street, 27th Floor
New York, NY 10019

SUBJECT: AS-GRAVES-M25-2021-107

STRUCTURE: Antenna Tower
LOCATION: Sedalia, KY
COORDINATES: 36° 38' 16.36" N / 88° 36' 9.62" W
HEIGHT: 265' AGL/783' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 265' AGL/783' AMSL Antenna Tower near Sedalia, KY 36° 38' 16.36" N / 88° 36' 9.62" W.

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.

No Hazard, Medium Dual Obstruction Lighting Required.

Randall S. Royer

Randall S. Royer, Executive Director
Office of Audits
Acting Administrator
Randall.Royer@ky.gov
Jason.Salazar-Munoz@ky.gov



An Equal Opportunity Employer M/F/D

EXHIBIT G
GEOTECHNICAL REPORT



GEOTECHNICAL INVESTIGATION REPORT

October 11, 2021

Prepared For:

LCS Wireless Inc.



**Sedalia
15403957**

Proposed 250-Foot Self-Supporting Tower

230 State Route 381, Sedalia (Graves County), Kentucky 42079

Latitude N 36° 38' 16.3" Longitude W 88° 36' 09.6"

Delta Oaks Group Project GEO21-11312-08

Revision 0

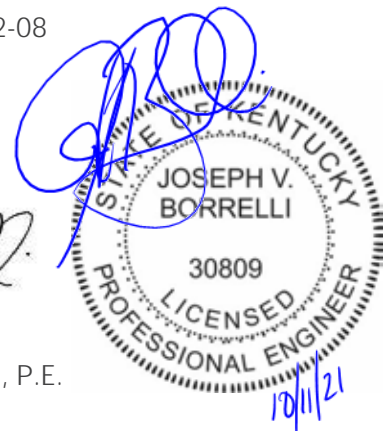
geotech@deltaoaksgroup.com

Performed By:

Justin Brosseau, E.I.

Reviewed By:

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





INTRODUCTION

This geotechnical investigation report has been completed for the proposed 250-foot self-supporting tower located at 230 State Route 381 in Sedalia (Graves 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 lot exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Lease Exhibit, prepared by Infinigy Engineering, PLLC, dated April 20, 2021
- Survey Drawings, prepared by Point to Point Land Surveyors, dated April 14, 2021
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring, B-1, to the termination depth of 50.0 feet bgs and two additional mechanical soil test borings, B-2 and B-3, to the termination depth of 10.0 feet bgs. Soil test borings B-2 and B-3 were terminated prematurely due to extensive caving of the boring caused by the presence of cobbles and boulders. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted about the staked centerline of the proposed tower. 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 boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



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

Topsoil was encountered during the subsurface field investigation from the existing ground surface to a depth of 0.5 feet bgs.

SOIL

The residual soil encountered in the subsurface field investigation began at a depth of 0.5 feet bgs in the boring and consisted of clayey silt, lean clay, clayey gravel, poorly graded sand, and poorly graded gravel. The materials ranged from a very dense relative density and a soft to hard cohesion.

Auger advancement refusal was not encountered during the subsurface field investigation.

ROCK

Rock was not encountered during the subsurface field investigation.

SUBSURFACE WATER

Subsurface water could not be measured during the subsurface investigation due to the use of mud rotary drilling techniques.

FROST PENETRATION

The frost penetration depth for Graves County, Kentucky is 20 inches (1.7 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 17,000 ohms-cm.



FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a shallow foundation and/or drilled shaft foundation 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 – 0.5	TOPSOIL	105	0	0
	0.5 – 3.5	CL – ML	110	0	1,000
	3.5 – 6.0	CL – ML	120	0	2,750
	6.0 – 8.5	CL – ML	120	0	3,750
	8.5 – 13.5	CL	120	0	2,500
	13.5 – 18.5	CL	110	0	1,500
	18.5 – 23.5	GC	130	40	0
	23.5 – 28.5	SP	130	40	0
	28.5 – 38.5	GP	130	40	0
	38.5 – 48.5	SP	130	40	0
	48.5 – 50.0	GP	130	40	0

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-2	0.0 – 0.5	TOPSOIL	105	0	0
	0.5 – 3.5	CL – ML	105	0	300
	3.5 – 6.0	CL – ML	110	0	1,500
	6.0 – 10.0	CL – ML	120	0	2,500

DELTA OAKS GROUP



Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-3	0.0 – 0.5	TOPSOIL	105	0	0
	0.5 – 3.5	CL – ML	110	0	1,500
	3.5 – 6.0	CL – ML	120	0	3,250
	6.0 – 8.5	CL – ML	125	0	5,250
	8.5 – 10.0	CL – ML	125	0	4,500

- 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.



SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.5	10,540
		4.0	10,730
		5.0	11,100
		6.0	19,120
	10.0 x 10.0	3.5	9,900
		4.0	9,990
		5.0	10,180
		6.0	17,270
	15.0 x 15.0	3.5	9,680
		4.0	9,750
		5.0	9,870
		6.0	16,650
	20.0 x 20.0	3.5	9,570
		4.0	9,620
		5.0	9,710
		6.0	16,350
	25.0 x 25.0	3.5	9,510
		4.0	9,550
		5.0	9,620
		6.0	16,160

- Delta Oaks Group recommends the foundation bear a minimum of 3.5 feet bgs.
- A sliding friction factor of 0.30 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 1.7 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.



ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	0	0.00	1.00	0.00
Bottom	0.5	105	0	0	52.50	1.00	26.25
Top	0.5	110	0	1000	52.50	1.00	1026.25
Bottom	1.7	110	0	1000	184.50	1.00	1092.25
Top	1.7	110	0	1000	184.50	1.00	2184.50
Bottom	3.5	110	0	1000	382.50	1.00	2382.50
Top	3.5	120	0	2750	382.50	1.00	5882.50
Bottom	6.0	120	0	2750	682.50	1.00	6182.50
Top	6.0	120	0	3750	682.50	1.00	8182.50
Bottom	8.5	120	0	3750	982.50	1.00	8482.50
Top	8.5	120	0	2500	982.50	1.00	5982.50
Bottom	10.0	120	0	2500	1162.50	1.00	6162.50



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	21,330	160	160
	4.0 – 6.0	22,230	820	820
	6.0 – 9.0	20,240	1,370	1,370
	9.0 – 14.0	13,030	1,370	1,370
	14.0 – 19.0	23,690	820	820
	19.0 – 24.0	43,350	1,060	790
	24.0 – 29.0	51,930	1,330	1,000
	29.0 – 34.0	53,400	1,610	1,200
	34.0 – 39.0	53,300	1,880	1,410
	39.0 – 44.0	53,200	2,150	1,610
	44.0 – 49.0	53,100	2,420	1,820
	49.0 – 50.0	53,080	2,590	1,940

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



SUBSURFACE STRENGTH PARAMETERS – SUPPORT STRUCTURE FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Minimum Design Footing Width (ft)	Modulus of Subgrade Reaction (pci)
B-2	2.0	1,860	2.0	60
	3.0	2,020		
	4.0	10,900		300
	5.0	11,680		

- Delta Oaks Group recommends utilizing a slab on grade in conjunction with continuous perimeter footings that bear on residual soil or properly compacted structural fill placed in accordance with the recommendations provided in the *CONSTRUCTION* section of this report.
- The slab on grade should be properly reinforced to prevent concrete cracking and shrinkage.
- The foundation should bear a minimum of 2.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table is presented on the following page. An appropriate reduction should be considered in accordance with local building code frost penetration depth.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



ULTIMATE PASSIVE PRESSURE VS. DEPTH – SUPPORT STRUCTURE FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	0	0.00	1.00	0.00
Bottom	0.5	105	0	0	52.50	1.00	26.25
Top	0.5	105	0	300	52.50	1.00	326.25
Bottom	1.7	105	0	300	178.50	1.00	389.25
Top	1.7	105	0	300	178.50	1.00	778.50
Bottom	3.5	105	0	300	367.50	1.00	967.50
Top	3.5	110	0	1500	367.50	1.00	3367.50
Bottom	6.0	110	0	1500	642.50	1.00	3642.50
Top	6.0	120	0	2500	642.50	1.00	5642.50
Bottom	10.0	120	0	2500	1122.50	1.00	6122.50



CONSTRUCTION

SITE DEVELOPMENT

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

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

STRUCTURAL FILL PLACEMENT

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

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

SHALLOW FOUNDATIONS

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

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.



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.

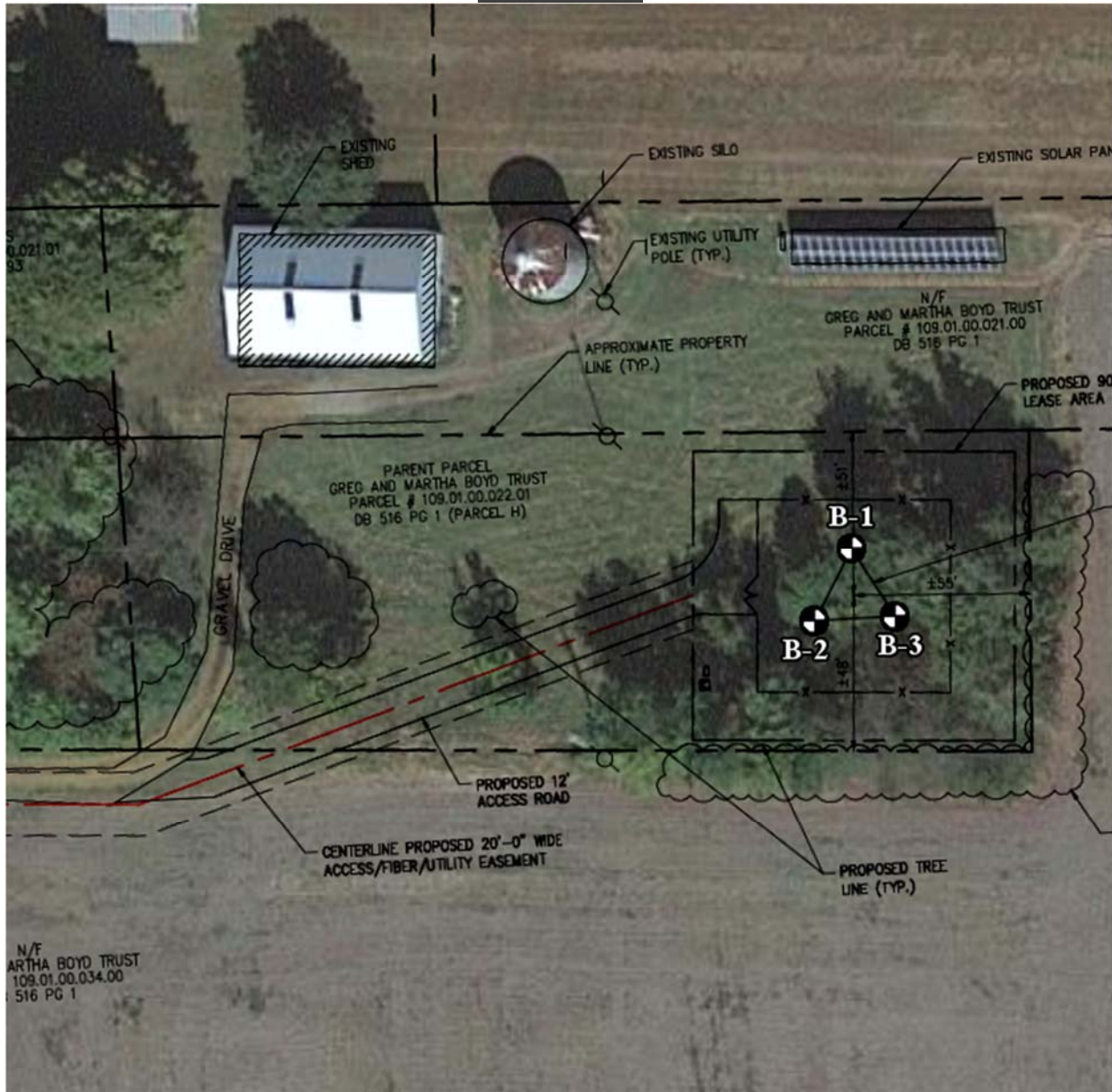
Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by LCS Wireless. No warranty, expressed or implied, is presented.

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.



APPENDIX

BORING PLAN



**EXHIBIT H
DIRECTIONS TO WCF SITE**

Driving Directions to Proposed Tower Site:

1. Beginning at 101 East South Street, Mayfield, KY, head east toward South 6th Street and travel approximately 187 feet.
2. Turn right onto South 6th Street and travel approximately 0.3 miles.
3. Turn left onto KY-464 E/Backusburg Road and travel approximately 0.7 miles.
4. Turn right onto KY-121 Bypass North and travel approximately 1.5 miles.
5. Continue onto KY-97 South and travel approximately 5.6 miles.
6. Continue onto KY-381 South and travel approximately 0.3 miles. The site is on the left at 230 State Route 381, Sedalia, KY 42079.
7. The site coordinates are
 - a. 36 deg 38 min 16.29 sec N
 - b. 88 deg 36 min 09.62 sec W



Prepared by:
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PO Box 369
Shepherdsville, KY 40165-0369
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

Market: Southeast/TNKY
Cell Site Number: _____
Cell Site Name: _____
Search Ring Name: Sedalia
Fixed Asset Number: 15403957

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "**Effective Date**"), is entered into by Gregory N. Boyd and Martha L. Boyd, husband and wife, as Co-Trustees of the Greg and Martha Boyd Trust, having a mailing address of 585 State Route 339 East, Mayfield, Kentucky 42066 ("**Landlord**") and Tillman Infrastructure LLC, a Delaware limited liability company, having an address at 152 West 57th Street, New York, New York 10019 ("**Tenant**").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 230 State Road 381, in the County of Graves, State of Kentucky (collectively, the "**Property**"). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

(a) Landlord grants to Tenant an exclusive option (the "**Option**") to lease a certain portion of the Property consisting of a 100' x 100' parcel of property including the air space above such ground space, as described on attached **Exhibit 1**, (the "**Premises**"), for the placement of a Communication Facility in accordance with the terms of this Agreement.

(b) During the Option Term, and during the Term, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, registrations with the Federal Communications Commissions and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted.

(c) In consideration of Landlord granting Tenant the Options contained in this Agreement, Tenant agrees to pay Landlord the sum of [REDACTED] Dollars ([REDACTED]) within thirty (30) business days after the Effective Date. The Option may be exercised during an initial term of one (1) year commencing on the Effective Date (the "**Initial Option Term**"). If the Option is not exercised during the Initial Term, the term shall automatically renew for an additional one (1) year (the "**Renewal Option Term**"). Tenant shall pay Landlord an additional [REDACTED] Dollars ([REDACTED]) within thirty (30) business days after to the start date of the Renewal Option Term. The Initial Option Term and any Renewal Option Term are collectively referred to as the "**Option Term**."

(d) The Option may be sold, assigned or transferred at any time by Tenant without the written consent of Landlord. Upon notification to Landlord of such sale, assignment or transfer, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

(e) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, then this Agreement will terminate and the parties will have no further liability to each other.

(f) If during the Option Term, or during the Term if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, the Property or any of Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**"), or in the event of a threatened foreclosure on any of the foregoing, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, the Property or the Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. PERMITTED USE. Tenant may use the Premises for the transmission and reception of communications signals and related activities, and the installation, construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable tower and support structure ("**Structure**"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively the "**Communication Facility**"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "**Permitted Use**"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of one hundred twenty (120) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of the Surrounding Property as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelters or cabinets to the antennas, electric lines from the main feed to the equipment shelters or cabinets and communication lines from the Property's main entry point to the equipment shelters or cabinets, install a generator(s) and to make other improvements, additions, alterations, upgrades or additions appropriate for Tenant's Permitted Use, including the right to construct a fence around the Premises or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes to the Structure or relocate the Communication Facility or add additional cabinets within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations.

3. TERM.

(a) The initial lease term will be ten (10) years (the "**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "**Term Commencement Date**"). The Initial Term will terminate on the tenth (10th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for ten (10) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or the then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party hereto by giving to the other party hereto written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the "**Term**."

4. RENT.

(a) Commencing on the first day of the calendar month following the date that Tenant commences construction (the "**Rent Commencement Date**"). Tenant will pay Landlord on or before the tenth (10th) day of each calendar month in advance, [REDACTED] Dollars [REDACTED] (the "**Rent**"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, the Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

(b) Upon the commencement of each Extension Term, the monthly Rent will increase by [REDACTED] percent [REDACTED] over the Rent paid during the previous term.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

5. APPROVALS.

(a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for the Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for the Permitted Use and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.

6. TERMINATION. This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended

by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 18 Condemnation or Section 19 Casualty.

7. **INSURANCE.** During the Option Term and throughout the Term, Tenant will purchase and maintain in full force and effect such general liability policy as Tenant may deem necessary. Said policy of general liability insurance will at a minimum provide a combined single limit of [REDACTED]. Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage or by adding this site as an endorsement on a pre-existing master policy which contains the above limit.

8. **INTERFERENCE.**

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations. In the event the Communications Facility interferes with the existing radio frequency users identified above operating within their respective frequencies and in accordance with all applicable laws and regulations, Tenant will endeavor to cause such interference to cease within ten (10) business days after receipt of notice of interference from Landlord.

(b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. **INDEMNIFICATION.**

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, invitees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all

injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees, invitees, agents or independent contractors, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section 9 and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

10. WARRANTIES.

(a) Each of Tenant and Landlord (to the extent not a natural person) each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power, and authority or capacity, as applicable, to enter into this Agreement and bind itself hereto through the party or individual set forth as signatory for the party below.

(b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises in accordance with the terms of this Agreement without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, then Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest in the form attached hereto as Exhibit 2.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants, except as may be identified in **Exhibit 3** attached to this Agreement, (i) the Property, as of the Effective Date, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("**Claims**"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Effective Date or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities

and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

(c) The indemnification provisions contained in this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, then Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.

12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("**Access**") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in **Exhibit 1**, Landlord grants to Tenant, its subtenants, lessees assigns and licensees an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant (the "Access Easement"). Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 4**, and upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. If Tenant elects to utilize an Unmanned Aircraft System ("UAS") in connection with its installation, construction, monitoring, suite audits, inspections, maintenance, repair, modification, or alteration activities at the Property, Landlord hereby grants Tenant, as any UAS operator acting on Tenant's behalf, express permission to fly over the applicable Property and Premises, and consents to the use of audio and video navigation and recording in connection with the use of the UAS. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, [REDACTED] per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises, Tenant remove from the Premises all of Tenant's above grade improvements and any foundation to a depth of 1' below grade, and Tenant shall, to the extent reasonable, restore the Premises to its condition at the commencement of this Agreement, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenable condition, subject to reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to sub-meter from Landlord. When sub-metering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Tenant shall reimburse Landlord for such utility usage at the same rate charged to Landlord by the utility service provider. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within sixty (60) days of receipt of the usage data and required forms. Landlord shall maintain accurate and detailed records of all utility expenses, invoices and payments applicable to Tenant's reimbursement obligations hereunder. Within fifteen (15) days after a request from Tenant, Landlord shall provide copies of such utility billing records to the Tenant in the form of copies of invoices, contracts and cancelled checks. If the utility billing records reflect an overpayment by Tenant, Tenant shall have the right to deduct the amount of such overpayment from any monies due to Landlord from Tenant.

(c) As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to Tenant and any service company providing utility or similar services, including electric power and telecommunications, to Tenant an easement, in, on under and over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of maintaining and operating the Communication Facility and constructing, operating, upgrading and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as Tenant and such service companies may from time to time require in order to provide such services to the Premises (the "Utility Easement"). Upon Tenant's or service company's request, Landlord will execute a separate recordable Utility Easement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, then Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after

written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

16. ASSIGNMENT/SUBLEASE.

(a) Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment. Landlord shall have the right to assign or otherwise transfer all or a portion of this Agreement and Easement granted herein, upon written notice to Tenant except for the following; any assignment or transfer in whole or part of this Agreement which is separate and distinct from a transfer of Landlord's entire right title and interest in the Property, shall require the prior written consent of Tenant which may be withheld in tenant's sole discretion.

17. NOTICES. All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties hereto as follows:

If to Tenant: Tillman Infrastructure LLC
 152 West 57th Street 27th Floor
 New York, New York 10019
 Attn: Lease Administration

With a copy to: Tillman Infrastructure LLC
 152 West 57th Street 27th Floor
 New York, New York 10019
 Attn: Suruchi Ahuja

If to Landlord: Gregory N. Boyd and Martha L. Boyd
 585 State Route 339 East
 Mayfield, Kentucky 42066

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party hereto as provided herein.

18. CONDEMNATION. In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within twenty-four (24) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Structure and Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a *pro rata* basis.

19. CASUALTY. Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours Landlord has knowledge of the casualty or other harm. If any part of the Communication Facility or the Property is damaged by casualty or other harm as to render the Premises

unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a *pro rata* basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of this Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to terminate under this Section 19, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility including the Structure or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

21. TAXES.

(a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (i) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord

has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17 and, in addition, a copy of any such notices shall be sent to the below address. Promptly after the Effective Date of this Agreement, Landlord shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

Tillman Infrastructure LLC
152 W 57th Street
New York, New York 10017
Attn: Network Real Estate Administration--Taxes

(g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

(a) Landlord may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or the Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this Section 22(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant reserves the right to hold payments due under this Agreement.

- i. Old deed to Property

- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed Tenant Payment Direction Form
- vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or the Surrounding Property for the installation, operation or maintenance of other wireless communication facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communication facility or equipment.

(d) The provisions of this Section 22 shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. **RIGHT OF FIRST REFUSAL.** Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises ("**Offer**"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer and Tenant may assign its rights to a third party. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section 23. Tenant's failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described.

24. **ELECTRONIC SIGNATURE.** The parties acknowledge and agree that this Lease may be executed by electronic signature, which shall be considered as an original signature for all purposes and shall have the same force and effect as an original signature. Without limitation, "electronic signature" shall include faxed version of an original signature or electronically scanned and transmittal version (e.g. via pdf) of an original signature.

25. **MISCELLANEOUS.**

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.

(b) **Memorandum/Short Form Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 5**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations (“Laws”) applicable to Tenant’s use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord’s ownership and use of the Property and any improvements on the Property.

(e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(f) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

(g) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term “including” will be interpreted to mean “including but not limited to”; (iii) whenever a party’s consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms “termination” or “expiration” are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate; and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) **Affiliates.** All references to “Tenant” shall be deemed to include any Affiliate of Tillman Infrastructure LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. “Affiliate” means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. “Control” of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

(j) **Survival.** Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.

(k) **W-9.** As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including any change in Landlord’s name or address.

(l) **Execution/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

(m) **Attorneys' Fees.** In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.

(n) **Incidental Fees.** Unless specified in this Agreement, no unilateral fees or additional costs or expenses are to be applied by either party to the other party, including review of plans, structural analyses, consents, provision of documents or other communications between the parties.

(o) **Further Acts.** Upon request, Landlord will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as Tenant may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement, including any Subordination, Non-Disturbance and Attornment Agreement.

(p) **Confidentiality.** The terms and conditions of this Agreement are confidential between the parties and Landlord shall not disclose the same to anyone else, except to Landlord's accountant, attorney and as agreed to by the Parties (except as to sublessees), or as is necessary to effectuate the terms of this Agreement. Any Disclosure in violation of this Section shall be deemed a material breach of this Agreement.

(q) **Estoppel.** Either party will, at any time upon twenty (20) business days prior written notice from the other, execute, acknowledge and deliver to the other a statement in writing (i) certifying that this Agreement is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying this Agreement, as so modified, is in full force and effect) and the date to which the Rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to such party's knowledge, any uncured defaults on the part of the other party hereunder, or specifying such defaults if any are claimed.

(r) **Rules Against Perpetuities.** If this Agreement or any covenants or provisions herein would otherwise be unlawful, void or voidable for violation of the Rule against Perpetuities, then the same shall continue until 20 years and 6 months after the date of death of the last survivor of the members of Congress of the United States of America (including the House of Representatives and the Senate) representing the State in which the Premises is located who are serving on the date of this Agreement

(s) **Security Interest.** Tenant has the right to assign, mortgage or grant a security interest in all or a portion of Tenant's interest in and to this Agreement, Premises, the Structure, Communication Facility, equipment and Easements, and may assign such Tenant's interests to any such assignee, mortgagees, or holders of security interests, all without Landlord's consent ("Secured Party" or, collectively, "Secured Parties"). If requested, Lessor shall execute such consent to Tenant's financing as may reasonably be required by Secured Parties.

[SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the Effective Date.

“WITNESSES”

“LANDLORD”

GREG AND MARTHA BOYD TRUST

Name: William T Moore
William T Moore

By: Gregory N Boyd
Print Name: Gregory N. Boyd
Its: Co-Trustee
Date: 4-23-2021

Name: _____

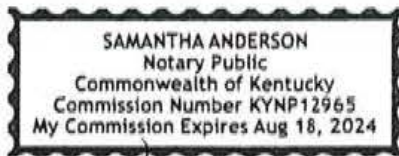
By: Martha Boyd
Print Name: Martha L. Boyd
Its: Co-Trustee
Date: 4-23-2021

Name: ANITA A BOSTEDER
Anita A Bosteder
Name: _____

LANDLORD ACKNOWLEDGMENTS

STATE OF KENTUCKY)
) ss:
COUNTY OF Graves)

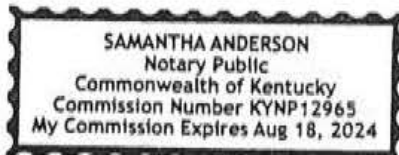
BE IT REMEMBERED, that on this 23rd day of April, 2021 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared Gregory N. Boyd, who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.



Samantha Anderson
Notary Public: Commonwealth of Ky
My Commission Expires: Aug 18, 2024

STATE OF KENTUCKY)
) ss:
COUNTY Graves)

BE IT REMEMBERED, that on this 23rd day of April, 2021 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared Martha L. Boyd, who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.



Samantha Anderson
Notary Public: Commonwealth of Ky
My Commission Expires: Aug 18, 2024

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the Effective Date.

“WITNESSES”

“TENANT”

TILLMAN INFRASTRUCTURE LLC,
a Delaware limited liability company

Name: _____

By: Sh. Aruja

Name: Sruethi Aruja

Its: Authorized Signatory

Name: _____

Date: 5-4-2021

ACKNOWLEDGMENT FOR TENANT

STATE OF New York)
COUNTY OF New York) ss.

On the 4th day of May in the year of 2021, before me, the undersigned, a Notary Public in and for said state, personally appeared Sruethi Aruja, Authorized Signatory of Tillman Infrastructure LLC, a Delaware limited liability company, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the individual or the entity upon behalf of which the individual acted, executed the instrument.

WITNESS my hand and official seal.

Signature: [Signature]
My Commission Expires: _____
Commission Number: _____

Chris Mularadellis
Notary Public, State of New York
No. 02MU6128986
Qualified in New York County
Commission Expires September 3, 2021

Exhibit 1

Description of the Premises & Access and Utility Easements:

Page 1 of 2

to the Option and Lease Agreement dated May 4, 2021, by and between Gregory N. Boyd and Martha L. Boyd, husband and wife, as Co-Trustees of the Greg and Martha Boyd Trust, as Landlord, and Tillman Infrastructure LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Tract 1:

Being 48 acres of land, more or less, lying in the Southeast quarter of Section 13 T 2 R 1 E and being more particularly described as follows:

Beginning at a stake in the center of the Sedalia-Lynnville Highway #381 at the Northwest corner of Hoyt Gough property; thence in an Easterly direction along the Hoyt Gough North line 1766 feet, more or less, to a stake, said stake being on the west line of the N.L. Galloway property; thence in a Northerly direction along the west line of N.L. Galloway property 686 feet, more or less, to a stake, said stake being on the South line of Jap Wheeler land 897 feet, more or less, to a stake, said stake being on the West line of Jap Wheeler property; thence in a westerly direction along the South line of Jap Wheeler land; thence in a Northly direction along the line of Jap Wheeler land 800 feet, more or less, to a stake on the South line of Nelson Boyd property; thence in a Westerly direction 563 feet, more or less, to a stake on the East line of Taylor property; thence in a southerly direction 100 feet, more or less, along Taylor's east line to a stake, thence in a westerly direction along Taylor's south line 450 feet, more or less, to a point in the middle of the Sedalia-Lynnville Highway #381, thence in a southerly direction along the center line of the Sedalia-Lynnville Highway #381, 1419 feet, more or less, to a stake which is the point of beginning.

EXCEPT a 15-acre rectangular shaped parcel off of the southeast corner of the above-described real estate which was conveyed to N.L. Galloway and wife, Lena M. Galloway, by Wilson Vest and wife, by Deed dated April 9, 1960, recorded April 9, 1960, in Deed Book 173, Page 498, Graves County Court Clerk's Office.

ALSO, EXCEPT A LOT FRONTING WEST ON Highway #381, 150 feet and running back East the same width 300 feet conveyed by Wilson Vest and wife, to Webster Ford and wife, by deed dated December 27, 1961, recorded December 27, 1961, in Deed Book 179, Page 708, Graves County Court Clerk's Office. After these exceptions are subtracted from the real estate heretofore described, there is being conveyed by this instrument 32 acres, more or less.

Tract 2:

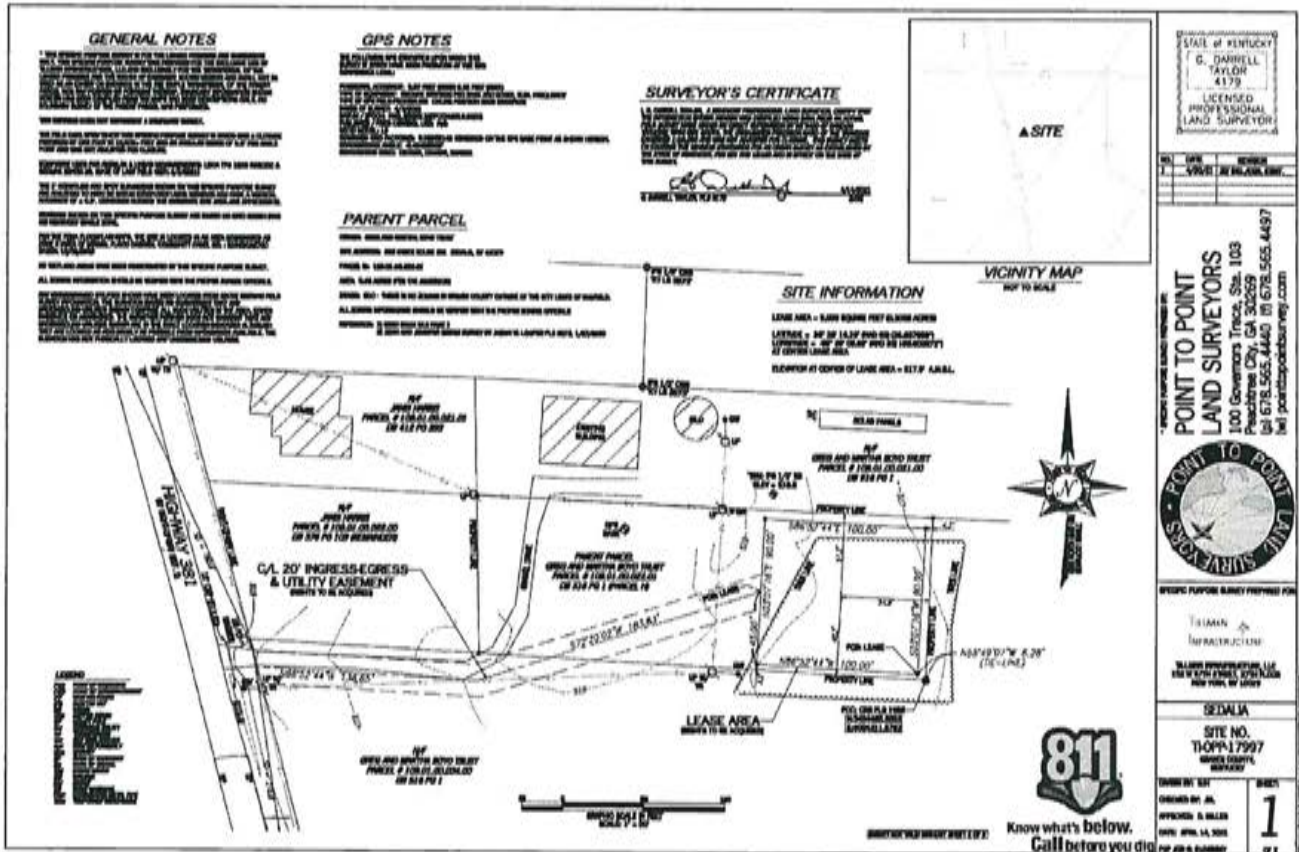
A certain tract of land located easterly of Kentucky 381 Highway and southerly of Kentucky 339 Highway in Graves County, Kentucky, and more particularly described as follows:

Unless stated otherwise all iron pins referred to as set are a 5/8" diameter iron pin, 18" long with a yellow plastic cap stamped R.T. Carter, PLS 1982. All bearings stated herein are magnetic and are taken from a reading in the field on November 20, 2003.

Beginning at an iron pin set in the south line of Gregory N. Boyd (DB 336, p. 599, Parcel 3), a new corner of Janis Harris (DB 379, p. 109), said pin located North 82 degrees 14 minutes 25 seconds East 197.80 feet from a point in the center of Kentucky 381 Highway; thence with the south line of Gregory N. Boyd (DB 336, p. 599, Parcel 3), North 82 degrees 14 minutes 25 seconds East 283.10 feet to an iron pin set at the northeast corner of Janis Harris (DB 379, p. 109); thence with the west line of Gregory N. Boyd (DB 336, p. 599, Parcel 3), South 7 degrees 51 minutes 33 seconds East 100.00 feet to an 8-1/2" x 7" corner post with a witness pin set at the southeast corner of Janis Harris (DB 379, p. 109); thence with the north line of Gregory N. Boyd (DB 336, p. 599, Parcel 1), South 82 degrees 50 minutes 33 seconds West 277.24 feet to an iron pin set, a new corner; thence with a new line, North 11 degrees 19 minutes 39 seconds West 97.27 feet to the point of beginning, and containing 0.63 acres (more or less).

Being the same property conveyed to Greg and Martha Boyd Trust from Gregory N. Boyd and wife, Martha L. Boyd by General Warranty Deed, dated April 18, 2018 and recorded on April 18, 2018 in Book 516, Page 1.

The Premises are described and/or depicted as follows:



Notes:

1. THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
2. ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES.
3. WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES, INCLUDING POLICE AND FIRE DEPARTMENTS.
4. THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANTENNAS AND TRANSMISSION LINES ARE ILLUSTRATIVE ONLY. ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

EXHIBIT J
NOTIFICATION LISTING

Sedalia – Notice List

Harris Janis
P.O. Box 2
Sedalia, KY 42079

Boyd Greg & Martha Trust
585 State Rt 339 E
Mayfield, KY 42066

Hood Ricky J
356 State Rt 381
Sedalia, KY 42066

Canter Lyle & Lora
345 State Rt 381
Sedalia, KY 42079

Thomas Douglas
281 State Rt 381
Sedalia, KY 42079

Arant Charles T & Sarah K
265 State Rt 381
Sedalia, KY 42079

Coltharp Gerald & Shirley
1425 Vealsburg Rd
Sedalia, KY 42079

Watson Charles Wayne
6271 State Rt 97
Mayfield, KY 42066

Crafton Stuart B & Catherine
6255 State Route 97
Mayfield, KY 42066

Rodriguez Jonathan A
6219 State Rt 97
Mayfield, KY 42066

Riley Jessica C
1745 St Rt 339 E
Sedalia, KY 42079

Friesen Carlos Dean & Landyn Makenzie
1697 State Rt 339 East
Sedalia, KY 42079

Coltharp Glynn E & Terry Lynn
204 State Rt 381
Sedalia, KY 42079

Cates Mary Beth
182 St Rt 381
Sedalia, KY 42079

Kemp Louis W & Christina K
148 State Rt 381
Sedalia, KY 42079

Blanton Lonnie & Connie
1644 St Rt 1382
Sedalia, KY 42079

Busch Glenn R Jr
586 Cardinal Rd
Mayfield, KY 42066

Cates Jerry & Jennifer
PO Box 44
Sedalia, KY 42079

Chambers Michael
419 State Rt 381
Sedalia, KY 42079

Choate Lori Lain
4978 Old Dublin Rd
Mayfield, KY 42066

Clymer Richard A
1765 St Rt 339 E
Sedalia, KY 42079

Cocke Tammy L & Fox Billy & Janet
395 State Rt 381
Sedalia, KY 42079

Galloway Richard & Cathy & Galloway Larry
6659 State Rt 97
Mayfield, KY 42066

Gough Billy R & Brenda J
564 State Rt 381
Sedalia, KY 42079

Hensley Jerry
6201 St Rt 97
Mayfield, KY 42066

Heritage Capital LLC
44 Northside Dr
Mayfield, KY 42066

House Brad & Camille
1839 St Rt 339 E
Sedalia, KY 42079

Lester Ricky & Linda K
381 State Rt 381
Sedalia, KY 42079

Long Gary Leon
447 St Rt 381
Sedalia, KY 42079

Perry Jesse & Kristina
1645 Scott Rd
Sedalia, KY 42079

Rhea Stuart T
437 State Rt 381
Sedalia, KY 42079

West Mason Lee & Linda F
1840 State Route 339 E
Sedalia, KY 42079

West KY Rural Elect Corp
PO Box 589
Mayfield, KY 42066

EXHIBIT K
COPY OF PROPERTY OWNER NOTIFICATION



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Sedalia**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 230 State Route 381, Sedalia, KY 42079 (36° 38' 16.29" North latitude, 88° 36' 09.62" West longitude). The proposed facility will include a 250-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 260-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2021-00416 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely,
David A. Pike
Attorney for Applicants

enclosures

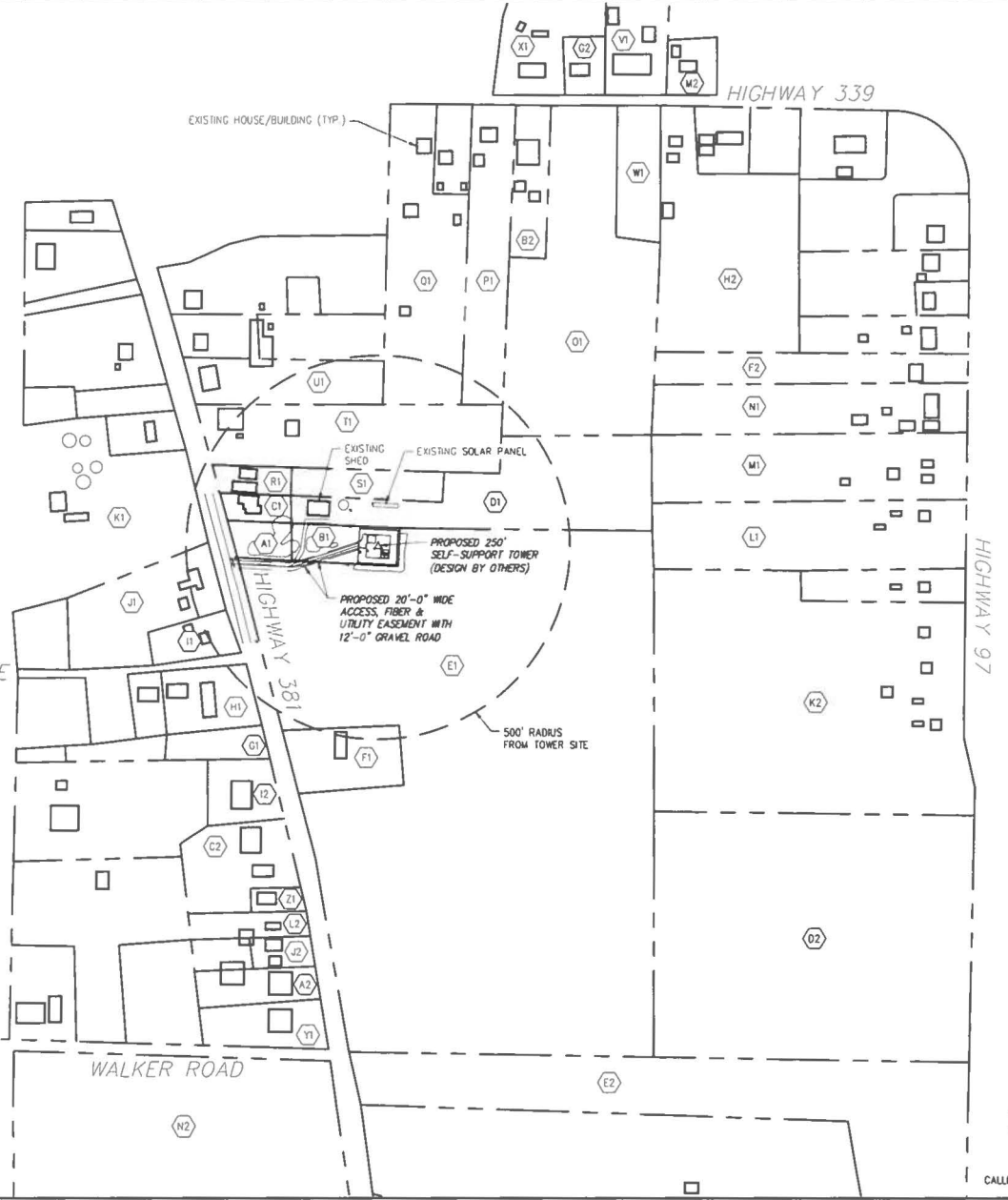
Driving Directions to Proposed Tower Site:

1. Beginning at 101 East South Street, Mayfield, KY, head east toward South 6th Street and travel approximately 187 feet.
2. Turn right onto South 6th Street and travel approximately 0.3 miles.
3. Turn left onto KY-464 E/Backusburg Road and travel approximately 0.7 miles.
4. Turn right onto KY-121 Bypass North and travel approximately 1.5 miles.
5. Continue onto KY-97 South and travel approximately 5.6 miles.
6. Continue onto KY-381 South and travel approximately 0.3 miles. The site is on the left at 230 State Route 381, Sedalia, KY 42079.
7. The site coordinates are
 - a. 36 deg 38 min 16.29 sec N
 - b. 88 deg 36 min 09.62 sec W



Prepared by:
Aaron L. Roof
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
PO Box 369
Shepherdsville, KY 40165-0369
Telephone: 502-955-4400 or 800-516-4293

CENTER OF PROPOSED TOWER:
LAT. 36° 38' 16.29" (36.637858) N
LONG. 88° 36' 09.62" (88.602672) W



DIRECTIONS:
DEPART 101 E SOUTH ST, MAYFIELD, KY 42066.
1. HEAD EAST ON E SOUTH ST TOWARD S 6TH ST.
2. TURN RIGHT AT THE 1ST CROSS STREET ONTO S 6TH ST.
3. TURN LEFT ONTO KY-464 E / BACKUSBURG RD.
4. TURN RIGHT ONTO KY-121 BYPASS N.
5. CONTINUE ONTO KY-97 S.
6. CONTINUE ONTO KY-381 S.
ARRIVE AT 230 KY-381, SEDALIA, KY 42079.



TILLMAN
INFRASTRUCTURE
132 W 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677

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INFINIGY ENGINEERING, PLLC
2750 SENECA HILL ROAD SUITE 130
MANASSAS VA 20108
(703) 791-8888

DESIGNED FOR CONSTRUCTION	DATE	11/28/21
DESIGNED FOR REVIEW	DATE	10/27/21
DESIGNED FOR REVIEW	DATE	09/28/21
DESIGNED FOR REVIEW	DATE	09/28/21
DESIGNED FOR REVIEW	DATE	09/28/21

Project Number: 2136-20001-C
Project Title:
**15403957
TI-OPP-17997
SEDALIA**
330 STATE ROUTE 381
SEDALIA KY 42079



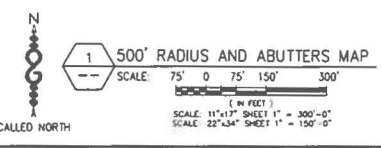
500' RADIUS AND ABUTTERS MAP & ADDRESSES
Drawing Scale: AS NOTED
Date: 09/28/21
CD

Drawing Number:
C3

GRAVES COUNTY KY PVA
HOWEL CARR, PVA
101 EAST SOUTH STREET, SUITE 5
MAYFIELD, KY 42066
OFFICE: 270-247-3501
FAX: 270-247-0205

GENERAL NOTE:
1. ALL INFORMATION SHOWN HEREIN WAS OBTAINED FROM THE RECORDS OF THE GRAVES COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 10/14/21. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. MORRISON HERSHFELD CORPORATION AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIM ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

NOTE:
PARCEL NUMBERS ARE OF RECORD IN THE GRAVES COUNTY PROPERTY VALUATION ADMINISTRATION OFFICE



PARCEL KEY:

(A1) PARCEL ID: 109.01.00.022.00 JANIS HARRIS P.O. BOX 2 SEDALIA, KY 42079	(L1) PARCEL ID: 109.01.00.002.00 CHARLES WAYNE WATSON 6271 STATE RT 97 MAYFIELD, KY 42066	(W1) PARCEL ID: 109.01.00.015.00 BOYD GREG & MARTHA TRUST 585 STATE RT 339 E MAYFIELD, KY 42066	(H2) PARCEL ID: 109.01.00.013.00 HOUSE BRAD & CAMILLE 1839 ST RT 339 E SEDALIA, KY 42079
(B1) PARCEL ID: 109.01.00.022.01 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	(M1) PARCEL ID: 109.01.00.003.00 STUART B & CATHERINE CRAFTON 6255 STATE ROUTE 97 MAYFIELD, KY 42066	(X1) PARCEL ID: 109.01.00.141.00 BUSCH CLENN R JR 586 CARDINAL RD MAYFIELD, KY 42066	(I2) PARCEL ID: 109.00.00.046.00 LESTER RORY & LINDA K 381 STATE RT 381 SEDALIA, KY 42079
(C1) PARCEL ID: 109.01.00.021.01 JANIS HARRIS P.O. BOX 2 SEDALIA, KY 42079	(N1) PARCEL ID: 109.01.00.004.00 JOHNATHAN A RODRIGUEZ 6219 STATE ROUTE 97 MAYFIELD, KY 42066	(Y1) PARCEL ID: 109.00.00.039.00 CATES JERRY & JENNIFER P O BOX 44 SEDALIA, KY 42079	(J2) PARCEL ID: 109.00.00.041.00 LONG GARY LEON 447 ST RT 381 SEDALIA, KY 42079
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(G1) PARCEL ID: 109.00.00.047.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	(R1) PARCEL ID: 109.01.00.023.00 GLYNN E & TERRY LYNN COLTHARP 204 STATE RT 381 SEDALIA, KY 42079	(C2) PARCEL ID: 109.00.00.045.00 COOKE TAMMY L & FOX BILLY & JANET 395 STATE RT 381 SEDALIA, KY 42079	(H2) PARCEL ID: 109.00.00.038.00 WEST KY RURAL ELECT CORP P O BOX 589 MAYFIELD, KY 42066
(H1) PARCEL ID: 109.00.00.048.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	(S1) PARCEL ID: 109.01.00.023.01 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	(D2) PARCEL ID: 109.00.00.031.00 CALLOWAY RICHARD & CATHY & GALLOWAY LARRY 6659 STATE RT 97 MAYFIELD, KY 42066	
(I1) PARCEL ID: 109.00.00.049.00 DOUGLAS THOMAS 281 STATE RT 381 SEDALIA, KY 42079	(T1) PARCEL ID: 109.01.00.024.00 MARY BETH CATES 182 ST RT 381 SEDALIA, KY 42079	(E2) PARCEL ID: 109.00.00.032.01 COUGH BILLY R & BRENDA J 564 STATE RT 381 SEDALIA, KY 42079	
(J1) PARCEL ID: 109.00.00.050.00 CHARLES T & SARAH K ARANT 265 STATE ROUTE 381 SEDALIA, KY 42079	(U1) PARCEL ID: 109.01.00.025.00 LOUIS W & CHRISTINA K KEMP 148 STATE ROUTE 381 SEDALIA, KY 42079	(F2) PARCEL ID: 109.01.00.005.00 HENSLEY JERRY 6201 ST RT 97 MAYFIELD, KY 42066	
(K1) PARCEL ID: 109.00.00.052.00 GERALD & SHIRLEY COLTHARP 1425 VEALSBURG ROAD SEDALIA, KY 42079	(V1) PARCEL ID: 109.01.00.143.00 BLANTON LONNIE & CONNIE 1644 ST RT 1382 SEDALIA, KY 42079	(G2) PARCEL ID: 109.01.00.142.00 HERITAGE CAPITAL LLC 44 NORTHSIDE DR MAYFIELD, KY 42066	

1 PARCEL KEY
-- SCALE: NOT TO SCALE



TILLMAN
INFRASTRUCTURE
152 W 37TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677

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FROM ZERO TO INFINIGY
The Infrastructure Group
INFRASTRUCTURE ENGINEERING PLLC
2755 SEMALL HILL ROAD, SUITE 130
MARIETTA, GA 30067
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DESIGNED FOR CONSTRUCTION	DES	11/03/21
DESIGNED FOR REVIEW	DES	10/27/21
DESIGNED FOR REVIEW	DES	09/29/21
BY	Submittal/Revision	Date
Drawn	By	Date
Designed	By	Date
Checked	By	Date

Project Number: 2136-20001
Project Title: 15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079



PARCEL KEY
Drawing Scale: AS NOTED
Date: 09/28/21
CD

15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079
Drawing Number: C3.1

EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

VIA CERTIFIED MAIL

Jesse Perry
County Judge/Executive
101 East South Street
Mayfield, KY 42066

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2021-00416
Site Name: Sedalia

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 230 State Route 381, Sedalia, KY 42079 (36° 38' 16.29" North latitude, 88° 36' 09.62" West longitude). The proposed facility will include a 250-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 260-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2021-00416 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 with any comments or questions you may have.

Sincerely,
David A. Pike
Attorney for Applicants
enclosures

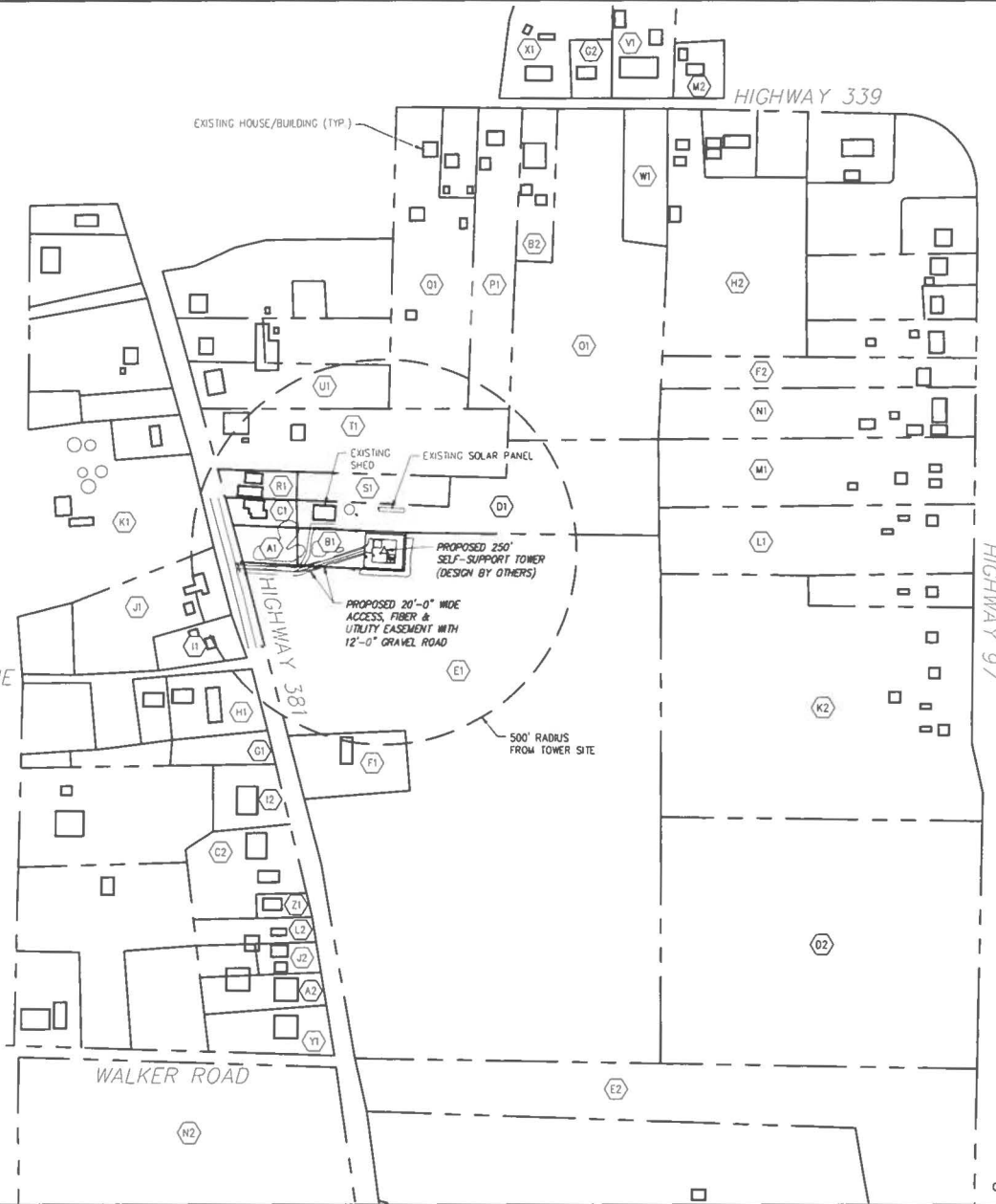
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7. The site coordinates are
 - a. 36 deg 38 min 16.29 sec N
 - b. 88 deg 36 min 09.62 sec W



Prepared by:
Aaron L. Roof
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
PO Box 369
Shepherdsville, KY 40165-0369
Telephone: 502-955-4400 or 800-516-4293

CENTER OF PROPOSED TOWER:
 LAT. 36° 38' 16.29" (36.637858) N
 LONG. 88° 36' 09.62" (88.602672) W



DIRECTIONS:
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 6. CONTINUE ONTO KY-381 S.
 ARRIVE AT 230 KY-381, SEDALIA, KY 42079.



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 INFRASTRUCTURE
 152 W 57TH STREET
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 TEL: 212-706-1677

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 INFINIGY ENGINEERING, PLLC
 2750 SENECA HILL ROAD SUITE 130
 MANASSAS, VA 20108
 OFFICE: 817.708.4444

DESIGNED FOR CONSTRUCTION	DATE: 11/28/21
DESIGNED FOR REVIEW	DATE: 10/27/21
DESIGNED FOR REVIEW	DATE: 09/28/21
DESIGNED FOR REVIEW	DATE: 09/28/21
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Project Number: 2136-20001-C
 Project Title:
 15403957
 TI-OPP-17997
 SEDALIA
 230 STATE ROUTE 381
 SEDALIA, KY 42079



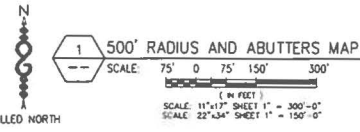
Drawing Title:
 500' RADIUS AND ABUTTERS MAP & ADDRESSES
 Drawing Scale:
 AS NOTED
 Date:
 09/28/21

Drawing Number:
C3

GRAVES COUNTY KY PVA
 HOWEL CARR, PVA
 101 EAST SOUTH STREET, SUITE 5
 MAYFIELD, KY 42066
 OFFICE: 270-247-3501
 FAX: 270-247-0205

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(G1) PARCEL ID: 109.00.00.047.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	(R1) PARCEL ID: 109.01.00.023.00 GLYNN E & TERRY LYNN COLTHARP 204 STATE RT 381 SEDALIA, KY 42079	(C2) PARCEL ID: 109.00.00.045.00 COOKE TAMMY L & FOX BILLY & JANET 395 STATE RT 381 SEDALIA, KY 42079	(H2) PARCEL ID: 109.00.00.038.00 WEST KY RURAL ELECT CORP P O BOX 589 MAYFIELD, KY 42066
(H1) PARCEL ID: 109.00.00.048.00 LYLE & LORA CANTER 345 STATE ROUTE 381 SEDALIA, KY 42079	(S1) PARCEL ID: 109.01.00.023.01 GREG AND MARTHA BOYD TRUST 585 STATE ROUTE 339 EAST MAYFIELD, KY 42066	(D2) PARCEL ID: 109.00.00.031.00 CALLOWAY RICHARD & CATHY & GALLOWAY LARRY 6659 STATE RT 97 MAYFIELD, KY 42066	
(I1) PARCEL ID: 109.00.00.049.00 DOUGLAS THOMAS 281 STATE RT 381 SEDALIA, KY 42079	(T1) PARCEL ID: 109.01.00.024.00 MARY BETH CATES 182 ST RT 381 SEDALIA, KY 42079	(E2) PARCEL ID: 109.00.00.032.01 COUGH BILLY R & BRENDA J 564 STATE RT 381 SEDALIA, KY 42079	
(J1) PARCEL ID: 109.00.00.050.00 CHARLES T & SARAH K ARANT 265 STATE ROUTE 381 SEDALIA, KY 42079	(U1) PARCEL ID: 109.01.00.025.00 LOUIS W & CHRISTINA K KEMP 148 STATE ROUTE 381 SEDALIA, KY 42079	(F2) PARCEL ID: 109.01.00.005.00 HENSLEY JERRY 6201 ST RT 97 MAYFIELD, KY 42066	
(K1) PARCEL ID: 109.00.00.052.00 GERALD & SHIRLEY COLTHARP 1425 VEALSBURG ROAD SEDALIA, KY 42079	(V1) PARCEL ID: 109.01.00.143.00 BLANTON LONNIE & CONNIE 1644 ST RT 1382 SEDALIA, KY 42079	(G2) PARCEL ID: 109.01.00.142.00 HERITAGE CAPITAL LLC 44 NORTHSIDE DR MAYFIELD, KY 42066	

1 PARCEL KEY
-- SCALE: NOT TO SCALE



TILLMAN
INFRASTRUCTURE
152 W 37TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677

INFINIGY8
FROM ZERO TO INFINIGY
The Infrastructure Group
INFRASTRUCTURE ENGINEERING PLLC
2755 SEMALL HILL ROAD, SUITE 130
MARLBOROUGH, MA 01565
(508) 478-0000

DESIGNED FOR CONSTRUCTION (CS)	11/02/21
DESIGNED FOR REVIEW (CR)	10/27/21
DESIGNED FOR REVIEW (CR)	10/29/21
DESIGNED FOR REVIEW (CR)	10/29/21
DESIGNED FOR REVIEW (CR)	10/29/21

Project Number: 2136-20001

Project Title:
15403957
TI-OPP-17997
SEDALIA
230 STATE ROUTE 381
SEDALIA, KY 42079



Drawing Title:
PARCEL KEY

Drawing Scale:
AS NOTED
CD

Date:
09/28/21

Drawing Number:
C3.1

**EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT**

SITE NAME: SEDALIA
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.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2021-00416 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2021-00416 in your correspondence.



1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-0369
Phone (502) 955-4400 or (800) 516-4293
Fax (502) 543-4410 or (800) 541-4410

VIA TELEPHONE: 270-804-4584

Mayfield Messenger
Attn: Legal Notice Ad Representative
111 S. Seventh Street
Mayfield, KY 42066

RE: Legal Notice Advertisement
Site Name: Sedalia

Dear Legal Notice Ad Representative:

Please publish the following legal notice advertisement in the next edition of *The Mayfield Messenger*.

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 230 State Route 381, Sedalia, KY 42079 (36° 38' 16.29" North latitude, 88° 36' 09.62" West longitude). 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 2021-00416 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 Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely,
Aaron L. Roof
Pike Legal Group, PLLC

EXHIBIT N
COPY OF RADIO FREQUENCY DESIGN SEARCH AREA

