COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION RECEIVED

In the Matter of:	MAY 1 4 2019
APPLICATION OF KENTUCKY RSA #3 CELLULAR GENERAL PARTNERSHIP FOR	Public Service Commission
APPROVAL TO CONSTRUCT AND OPERATE A NEW) CASE No. 2019-00045
CELL FACILITY TO PROVIDE CELLULAR RADIO)
SERVICE (WAX) IN RURAL SERVICE AREA #3)
(GRAYSON COUNTY) OF THE COMMONWEALTH)
OF KENTUCKY)

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (WAX CELL SITE)

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3"), through counsel, pursuant to KRS 278.020 and 278.040, hereby submits this application for a certificate of public convenience and necessity to construct a cell site to be known as the Wax cell site in and for rural service area ("RSA") #3 of the Commonwealth of Kentucky, namely the counties of Allen, Breckinridge, Butler, Edmonson, Grayson, Hancock, Logan, McLean, Meade, Muhlenberg, Ohio, Simpson, Todd and Warren, Kentucky.

1. Pursuant to the FCC Order, Docket No. 08-165, dated November 18, 2009, ¶ 32, pp. 11 & 12, the Commission has 150 days to process this application for a certificate of public convenience and necessity to construct a cell tower facility. If the Commission fails to act upon this application within 150 days, then Kentucky RSA #3 may seek redress with the U.S. District Court for the Eastern District of Kentucky. ¹

¹In the Matter of: Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review and to Preempt Under Section 253 State and Local Ordinances that Classify all Wireless Siting Proposals as Requiring a Variance, FCC Order, Docket No. 08-165, November 18, 2009, pp 11 and 12. ("Specifically, we find that a "reasonable period of time" is, presumptively 90 days to process personal wireless service facility siting applications requesting collocations, and, also presumptively, 150 days to process all other

- 2. As required by 807 KAR 5:001 § 14 and 807 KAR 5:063, Kentucky RSA #3 states that it is a Kentucky general partnership whose full name and post office address are: Kentucky RSA #3 Cellular General Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701. An email address for Kentucky RSA #3 is dougu@bluegrasscellular.com. A copy of the Certificate of Assumed Name as a General Partnership for Kentucky RSA #3 Cellular General Partnership is attached as Exhibit "A." This is the only document on file with the Kentucky Secretary of State that identifies all owners of Kentucky RSA #3 Cellular General Partnership.
- 3. Pursuant to 807 KAR 5:063 § 1(1)(b), a copy of the applicant's approvals from the Federal Aviation Administration and Kentucky Airport Zoning Commission are attached as Exhibit "B."
- 4. Pursuant to 807 KAR 5:063, § 1(1)(c), attached as Exhibit "C" is a copy of the application to, and authorization from, the Federal Communications Commission.
- 5. Pursuant to 807 KAR 5:063 § 1(1)(d), applicant is attaching as Exhibit "D" a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the susceptibility of the area surrounding the proposed site to flood hazard.
- 6. Pursuant to 807 KAR 5:063 § 1(1)(e), clear directions from the county seat to the proposed site, including highway numbers and street names, if applicable, with the telephone number of the person who prepared the directions are Exhibit "E."

2

applications. (Relevant pages attached as Exhibit "L"). Accordingly, if State or local governments do not act upon applications within those timeframes, then a "failure to act" has occurred and personal wireless service providers may seek redress in a court of competent jurisdiction within 30 days, as provided in Section 332(c)(7)(B)(v).") See also Order Denying Motion for Reconsideration, issued August 4, 2010.

- 7. Pursuant to 807 KAR 5:063 § 1(1)(f), a copy of the lease for the property on which the tower is proposed to be located, is Exhibit "F."
- 8. Pursuant to 807 KAR 5:063 § 1(1)(g), experienced personnel will manage and operate the Wax cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Kentucky RSA #3, of which system the Wax cell site will be a part. Bluegrass Cellular Inc. provides management services to Kentucky RSA #3 under a management contract, just as it does with three (3) other wireless carriers in the Commonwealth. And, Bluegrass Cellular Inc. has been providing these management services to these other wireless carriers for over 20 years. This extensive management experience with Bluegrass Cellular demonstrates that Bluegrass Cellular Inc.'s management and technical ability to supervise the operations of a wireless carrier.
- 9. Pursuant to 807 KAR 5:063 § 1(1)(g), World Tower Company, Inc. is responsible for the design specifications of the proposed tower (identified in Exhibit "D").
- 10. Pursuant to 807 KAR 5:063 § 1(1)(h), a site development plan and survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site on the property on which the tower will be located, and all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system, is Exhibit "G."
- 11. Pursuant to 807 KAR 5:063 §1(1)(i), a vertical profile sketch of the tower, signed and sealed by a professional engineer registered in Kentucky, indicating the height of the tower and the placement of all antennas is Exhibit "D".

- 12. Pursuant to 807 KAR 5:063 §1(1)(j), the tower and foundation design plans and a description of the standard according to which the tower was designed, signed and sealed by a professional engineer registered in Kentucky, is Exhibit "D."
- 13. Pursuant to 807 KAR 5:063 § 1(1)(k), a map, drawn to a scale no less than one (1) inch equals 200 feet, that identifies every structure and every owner of real estate within 500 feet of the proposed tower, is Exhibit "G."
- 14. Pursuant to 807 KAR 5:063 § 1(1)(1), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.
- 15. Pursuant to 807 KAR 5:063 §1(1)(m), a list of the property owners who received the notice together with copies of the certified letters sent to listed property owners, is Exhibit "H."
- 16. Pursuant to 807 KAR 5:063 § 1(1)(n), applicant's legal counsel hereby affirms that the Office of the Grayson County Judge Executive has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of its right to request intervention.
- 17. Pursuant to 807 KAR 5:063 § 1(1)(o), a copy of the notice sent to the Grayson County Judge Executive is Exhibit "I."
- 18. Pursuant to 807 KAR 5:063 § 1(1)(p), applicant's legal counsel hereby affirms that (i) two written notices meeting subsection two (2) of this section have been posted, one in a

visible location on the proposed site and one on the nearest public road; and (ii) the notices shall remain posted for at least two weeks after the application has been filed.

- 19. Pursuant to 807 KAR 5:063 § 1(2)(a), applicant's legal counsel affirms that:
 - (a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "Kentucky RSA #3 Cellular General Partnership proposes to construct a telecommunications tower on this site. If you have questions, please contact Kentucky RSA #3 Cellular General Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701 or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case. No. 2019-00045 in your correspondence" has been posted and shall remain in a visible location on the proposed site until final disposition of the application; and
 - (b) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "Kentucky RSA #3 Cellular General Partnership proposes to construct a telecommunications tower near this site. If you have questions, please contact Kentucky RSA #3 Cellular General Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701 or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00045 in your correspondence" has been posted on the public road nearest the site.

A copy of each sign is attached as Exhibit "J."

- 20. Pursuant to 807 KAR 5:063 § 1(1)(q), Applicant hereby affirms that notice of the location of the proposed construction has been published in a newspaper of general circulation in Grayson County. A copy of the affidavit of publication and tear sheets as proof of publication are attached as Exhibit "K."
- 21. Pursuant to 807 KAR 5:063 § 1(1)(r), the site is in relatively undeveloped area in Clarkson, Kentucky.
- 22. Pursuant to 807 KAR 5:063 § 1(1)(s), Kentucky RSA #3 has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service to the area can be provided,

and that there is no reasonably available opportunity to co-locate. Kentucky RSA #3 has attempted to co-locate on towers designed to host multiple wireless service providers' facilities or existing structures, such as a telecommunications tower, or another suitable structure capable of supporting the utility's facilities.

- 23. Pursuant to 807 KAR 5:063 § 1(1)(t), a map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the search area in which a site should, pursuant to radio frequency requirements, be located is Exhibit "L."
- 24. Pursuant to 807 KAR 5:001 § 15(b)(2)(d) and KRS 100.987(2)(a), a grid map, that is drawn to scale, that shows the location of all existing cellular antenna towers and that indicates the general position of proposed construction sites for new cellular antenna towers is Exhibit "M."
- 25. Pursuant to 807 KAR 5:063 § 2 and KRS 278.665(2), applicant's legal counsel hereby affirms that every person who, according to the records of the property valuation administrator, owns property contiguous to the property where the proposed cellular antenna tower will be located has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.
- 26. No reasonably available telecommunications tower, or other suitable structure capable of supporting the cellular facilities of Kentucky RSA #3 and which would provide adequate service to the area exists.
- 27. Correspondence and communication with regard to this application should be addressed to:

John E. Selent
Felix H. Sharpe, II

DINSMORE & SHOHL LLP
101 South Fifth Street
Suite 2500
Louisville, Kentucky 40202
(502) 540-2300
john.selent@dinsmore.com
felix.sharpe@dinsmore.com

WHEREFORE, Kentucky RSA #3 Cellular General Partnership requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Wax cell site; and

Respectfully submitted,

2. Granting all other relief as appropriate.

John E. Selent Felix H. Sharpe, II

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AGREEMENT

KENTUCKY RSA #3

CELLULAR GENERAL PARTNERSHIP

THIS GENERAL PARTNERSHIP AGREEMENT, is entered into by and among Logan Telephone Cooperative, Incorporated, a Kentucky corporation. Lewisport Telephone Company, Inc., a Kentucky corporation, Brandenburg Telephone Co., Inc., a Kentucky corporation, and North Central Telephone Cooperative, Inc., a Tennessee corporation, and South Central Rural Telephone Cooperative Corporation, Inc., a Kentucky corporation, as the general partners, and the Persons (if any) who become general partners, as provided herein ("Partners").

WITNESSETH:

WHEREAS, the parties hereto desire to form a general partnership under the Laws of the Commonwealth of Kentucky, for the purposes and upon the terms stated herein; and

WHEREAS, Logan Telephone Cooperative, Incorporated was selected in a lottery conducted December 20, 1989 by the Federal Communications Commission ("FCC") in the process of considering applications to construct a domestic public cellular radio telecommunications system, "the Cellular System," to serve the Kentucky 3 - Meade Rural Service Area (the "RSA"); and

WHEREAS, the Partners have entered into a "Kentucky RSA 3 Settlement Agreement" ("Settlement Agreement") on June 8.

1989, concerning the settlement of mutually exclusive applications for the construction permit (the "Permit").

I. ORGANIZATION MATTERS

1.1 Formation.

The General Partners have associated themselves in the formation of the Partnership as a general partnership pursuant to the provisions of the Kentucky Act. Except as expressly provided herein to the contrary, the rights and obligations of the Partners and the administration and termination of the Partnership shall be governed by the Kentucky Act. The Partnership Interest of any Partner shall be personal property for all purposes.

1.2 Name.

The name of the Partnership shall be, and the business of the Partnership shall be conducted under the name, "Ky RSA #3 Cellular General Partnership." The Partnership's business may be conducted under any other name or names deemed advisable by the Partners, including the name of any Partner.

1.3 Principal Office.

The principal office and address of the Partnership shall be 103 E. Main P. O. Box 97 Auburn, KY 42206 , or such other place as the Partners may from time to time designate. The Partnership may maintain such offices at such other place or places as the Partners deem advisable.

1.4 Term.

The Partnership shall continue in existence until termination of the Partnership in accordance with the provisions of Article XI.

II. DEFINITIONS

The following definitions shall for all purposes, unless otherwise clearly indicated to the contrary, apply to the terms used in this Agreement.

"Agreed Value" means the fair market value of any Partnership property as determined from time to time by a Majority Interest of the Partners using such reasonable method of valuation as may be adopted by the Partners. Unless another Agreed Value is fixed by the Partners for any item of Partnership property, the Agreed Value of such property shall be deemed to equal its adjusted basis for federal income tax purposes.

"Agreement" means this Agreement of General Partnership, as it may be amended or supplemented from time to time.

"Bankruptcy" shall be deemed to have occurred with respect to any Partner 60 days after the happening of any of the following: (a) the filing of an application by the Partner for, or a consent to, the appointment of a trustee of the Partner's assets, (b) the filing by the Partner of a voluntary petition in bankruptcy or the filing of a pleading in any court of record admitting in writing the Partner's inability to pay the Partner's debts as they become due, (c) the making by the Partner of a general assignment for the benefit of creditors, (d) the filing by the Partner of an answer admitting the material allegations, of, or consenting to, or defaulting in answering, a bankruptcy petition filed against the Partner in any bankruptcy proceeding, or (e) the entry of an order, judgment, or decree by any court of

competent jurisdiction adjudicating the Partner a bankrupt or appointing a trustee of the Partner's assets, and such order, judgment, or decree continuing unstayed and in effect for such period of 60 days.

"Capital Account" means the capital account maintained for a Partner pursuant to Section 4.4.

"Capital Contribution" means any cash or other property which a Partner contributes to the Partnership pursuant to Sections 4.2 or 4.3.

"Carrying Value" means, with respect to any property of the Partnership, the Agreed Value of such property at the time of its contribution to the Partnership, or as fixed from time to time in accordance with Section 4.4(e), reduced (but not below zero) by all depreciation and cost recovery deductions charged to the Partners' Capital Accounts pursuant to Section 4.4(c) with respect to such property and by any other charges for sales, retirements and other dispositions of such property, as of the time of determination.

"Code" means the Internal Revenue Code of 1986, as amended and in effect from time to time.

"Excess Loss Account" means, with respect to any Partner, an amount equal to the aggregate losses allocated to such Partner pursuant to Section 5.2 less the aggregate income allocated to such Partner pursuant to Section 5.2. A transferee of a Partnership Interest will succeed to the Excess Loss Account with respect to the Partnership Interest transferred.

"General Partner" means any of the Partners listed on the first page, or admitted by a vote of the Partners in accordance with Article X.

"Majority Interest" means the owners of more than 50% of the Percentage Interests owned by the Partners.

"Management Committee" means the committee described in Section 6.1(a).

"Net Agreed Value" means (a) in the case of any property contributed to the Partnership, the Agreed Value of such property reduced by any indebtedness, either assumed by the Partnership upon such contribution or to which such property is subject when contributed, and (b) in the case of any property distributed to a Partner, the Agreed Value of such property at the time such property is distributed, reduced by any indebtedness either assumed by such Partner upon such distribution or to which such property is subject at the time of distribution.

"Partner" means any of the General Partners.

"Partnership" means the general partnership established by this Agreement.

"Partnership Interest" means the Percentage Interest of a Partner in the Partnership.

"Percentage Interest" means initially the amount specified in Section 4.1. After the first capital contributions of the Partners have been made, the Percentage Interest held by each Partner in the Partnership shall equal the percentage derived by multiplying the balance of the Partner's capital account by one

hundred and then dividing by the total balance of the capital accounts of all of the Partners.

"Person" means an individual or a corporation, partnership, trust, unincorporated organization, association or other entity.

"Recapture Income" means any gain that is not capital gain recognized by the Partnership or, in the case of gain required by the Code to be computed separately by each Partner, by a Partner (but computed without regard to any adjustment required by Section 734 or Section 743 of the Code) upon the disposition of any property or asset of the Partnership.

"Kentucky Act" means the Kentucky Uniform Partnership Act, KRS 362.175 to KRS 362.355, as it may be amended from time to time.

"Unrealized Gain" attributable to an item of Partnership property means, as of any date of determination, the excess, if any, of the Agreed Value of such property as of such date of determination over the Carrying Value of such property as of such date of determination (prior to any adjustment to be made pursuant to Section 4.4(e) as of such date).

"Unrealized Loss" attributable to an item of Partnership property means, as of any date of determination, the excess, if any, of the Carrying Value of such property as of such date of determination (prior to any adjustment to be made pursuant to Section 4.4(e) as of such date) over the Agreed Value of such property as of such date of determination.

III. PURPOSE

The purpose and business of the Partnership shall be to engage in any lawful business in which a general partnership formed under the Kentucky Act may engage, including, without limitation, the ownership of cellular radio telecommunications systems.

IV. CAPITAL CONTRIBUTIONS

4.1 Percentage Of Interest.

Each Partner shall have an initial percentage interest in the Partnership as described in the following schedule:

<u>Partner</u>	Percentage Interest
Logan Telephone Cooperative, Incorporated	20%
Lewisport Telephone Company, Inc.	20%
Brandenburg Telephone Co., Inc.	20%
North Central Telephone Cooperative, Inc.	20%
South Central Rural Telephone Cooperative Corporation, Inc.	20%

4.2 <u>Initial Capital Contribution</u>.

Each Partner shall contribute one-thousand dollars (\$1,000.00) to the Partnership as an initial capital contribution.

4.3 Partners' Additional Contributions.

(a) Additional Capital Contributions. From time to time additional capital may be required to be invested by the Partnership to fund expansion or operation of Cellular Service. If the Management Committee determines that additional capital

is so needed, each Partner shall be entitled to provide its share of additional capital in proportion to its then current Partnership Interest. This additional funding shall be due and payable on the date set forth in a written notice to each Partner from the Partnership requesting such additional Capital Contribution, which date shall not be less than 60 days from the date of the notice.

- (b) Failure to Make Capital Contributions. Should any Partner (a "Nonparticipating partner") make a portion but not all of its initial Capital Contribution or any subsequent additional Capital Contribution, or fail to pay such contributions when due, the other Partners may contribute pro rata, according to their then current respective Partnership Interests, an aggregate amount equal to the Capital Contribution declined by the Nonparticipating Partner. In such event, the Nonparticipating Partner shall forfeit its right to select a person to serve on the Management Committee.
- (c) <u>Capital Contributions in Cash</u>. Unless the Management Committee agrees to permit an in kind (property) contribution by a Partner by the affirmative vote of eighty percent of its members, funding of both initial and additional Capital Contributions to the Partnership shall be in cash and not real or personal property.

- 4.4 Capital Accounts.
- (a) The Partnership shall maintain for each Partner a separate Capital Account. The initial balance of the Capital Account of the General Partners shall be zero.
- (b) Each Partner's Capital Account shall be increased by (i) the cash amount or Net Agreed Value of all Capital Contributions made by such Partner to the Partnership pursuant to this Agreement and (ii) all items of Partnership income and gain computed in accordance with Section 4.4(c) and allocated to such Partner pursuant to Article V and decreased by (iii) the cash amount or Carrying Value of all distributions of cash or property made to such Partner pursuant to this Agreement and (iv) all items of Partnership deduction and loss computed in accordance with Section 4.4(c) and allocated to such Partner pursuant to Article V.
- (c) For purposes of computing the amount of any item of income, gain, deduction or loss to be reflected in the Partners' Capital Accounts, the determination, recognition and classification of such items shall be the same as its determination, recognition and classification for federal income tax purposes, with the following adjustments:
 - (i) Any income of the Partnership that is exempt from federal income tax and not otherwise taken into account under this Section 4.4(c) shall be considered an item of income;

- (ii) Any expenditures of the Partnership described in Section 705(a)(2)(B) of the Code or treated as Section 705(a)(2)(B) expenditures pursuant to Treasury Regulation Section 1.704-1(b)(2)(iv)(i), and not otherwise taken into account under this Section 4.4(c), shall be considered a deduction;
- (iii) Gain or loss resulting from any disposition of Partnership property with respect to which gain or loss is recognized for federal income tax purposes shall be computed with reference to the Carrying Value of the property disposed of, rather than its adjusted basis; and
- (iv) The depreciation, amortization, or other cost recovery deductions with respect to an item of Partnership property shall be computed with reference to the Agreed Value of such property rather than its adjusted basis.
- (d) A transferee of a Partnership Interest will succeed to the Capital Account relating to the Partnership Interest transferred.
- (e) Immediately prior to the distribution of any Partnership property other than money, the Capital Accounts of all Partners (and the Carrying Value of all Partnership property) may, in the discretion of the Management Committee, be adjusted (consistent with the provisions hereof and Section 704 of the Code) upwards or downwards to reflect any Unrealized Gain or Unrealized Loss attributable to such Partnership property (as if such Unrealized Gain or Unrealized Loss had been recognized upon

an actual sale of such property, immediately prior to such issuance, and had been allocated to the Partners, at such time, pursuant to Article V).

(f) The foregoing provisions and the other provisions of this Agreement relating to the maintenance of Capital Accounts are intended to comply with Treasury Regulation Section 1.704-1(b), and shall be interpreted and applied in a manner consistent with such regulations. To the extent that any provision required by the Treasury Regulations is not contained in this Agreement, that provision is hereby incorporated by reference. If the Management Committee determines that it is prudent to modify the manner in which the Capital Accounts are computed or maintained in order to comply with such regulations, the Management Committee may make such modification, provided that such modification is not likely to have a material effect on the amounts distributable to any Partner pursuant to Section 13.3 upon dissolution of the Partnership.

4.5 Negative Capital Account.

Upon the dissolution and termination of the Partnership, each Partner shall contribute to the Partnership an amount equal to the deficit balance in its capital account, if any.

4.6 Interest.

No interest shall be paid by the Partnership on Capital Contributions or on balances in Partners' capital accounts.

4.7 No Withdrawal.

A Partner shall not be entitled to withdraw any part of its Capital Contribution or its Capital Account or to receive any distribution from the Partnership, except as provided in Section 5.3 and Article XI.

4.8 Loans from Partners.

Loans by a Partner to the Partnership shall not be considered Capital Contributions.

V. ALLOCATIONS AND DISTRIBUTIONS

5.1 Income and Loss.

- (a) In determining the rights of the Partners among themselves and for financial accounting purposes, each item of income, gain, loss, deduction and credit shall be credited or charged, as the case may be, among the Partners in accordance with their respective Percentage Interests.
- (b) For federal income tax purposes, except as otherwise provided in Section 5.2, each item of income, gain, loss, deduction and credit of the Partnership shall be allocated among the Partners in accordance with their respective Percentage Interests.

5.2 Other Tax Allocations.

(a) Income, gain, loss, and deduction with respect to any property contributed to the Partnership shall, solely for federal income tax purposes, be allocated among the Partners so as to take into account any difference between the Agreed Value of such property and its adjusted basis on the date of such contribution,

in accordance with Section 704(c) of the Code. If the Carrying Value of any Partnership property is adjusted pursuant to Section 4.4(e), subsequent allocations of income, gain, loss, and deduction with respect to such property shall take account of any variation between the adjusted basis of such property and its Carrying Value, in the same manner as provided for under Section 704(c) of the Code. All allocations under this Section 5.2(a) shall be made in such manner as the Management Committee may in its discretion determine reasonably reflects the requirements of the Code and the intention of this Agreement.

- (b) To the extent of any Recapture Income resulting from the sale or other taxable disposition of a Partnership asset, the amount of any gain from such disposition allocated to (or recognized by) a Partner (or its successor in interest) for federal income tax purposes pursuant to the above provisions shall be deemed to be Recapture Income to the extent such Partner has been allocated or has claimed any deduction directly or indirectly giving rise to the treatment of such gain as Recapture Income.
- (c) In the event of the transfer of a Partnership Interest during a year, each item of Partnership income, gain, loss, deduction and credit attributable to the transferred Partnership Interest shall, for federal income tax purposes, be prorated between the transferor and transferee on a daily or other reasonable basis, as required by Section 706 of the Code; provided, however, that gain on a sale or other disposition of all or a substantial portion of the assets of the Partnership shall be

allocated among the Partners in proportion to their Partnership Interests on the date of sale.

- (d) If the Percentage Interest of any Partner is changed during a taxable year such Partner's share of taxable income or loss shall be determined for federal income tax purposes by taking into account his varying Percentage Interests in the Partnership during the taxable year on a daily or other reasonable basis as required by Section 706 of the Code.
- (e) It is intended that the allocations in this Article V effect an allocation for federal income tax purposes in a manner consistent with the Code and comply with any limitations or restrictions therein. The Management Committee shall have complete discretion to make the allocations pursuant to this Article V in any manner consistent with the Code. The Majority Interest of the Partners may amend the provisions of this Agreement in accordance with Article XII as appropriate as a result of the promulgation of final treasury regulations under any section of the Code, if in the opinion of counsel such an amendment is advisable to reflect allocations among the Partners consistent with those regulations.

5.3 Current Distributions.

(a) The Management Committee shall review the Partnership's accounts at the end of each calendar quarter to determine whether distributions are appropriate. The Management Committee may make such distributions as they in their discretion deem appropriate, without being limited to current or accumulated income or gains.

All such distributions shall be made to the Partners in accordance with the Percentage Interests of such Partners.

- (b) Any amounts paid pursuant to Section 6.2 shall not be deemed to be distributions for purposes of this Agreement.
 - VI. MANAGEMENT, OPERATION OF BUSINESS AND PARTNERSHIP POWERS
 - 6.1 Management.
- (a) The Partnership shall be managed by a Management Committee. Each Partner with a partnership interest equal to or greater than twenty percent shall be entitled to select one person to serve on the Management Committee subject to Section 9.1(c). Unless, otherwise provided in this Agreement all action taken by the Management Committee shall be by simple majority vote of the members of the Management Committee. The Management Committee shall hire an operations manager to manage the day to day operations of the Cellular System.
- (b) Partnership Powers. In furtherance of the business purpose specified in Article III and subject to the limitations set forth in this Agreement, the Partnership, and the Management Committee on behalf of the Partnership, shall be empowered to do or cause to be done any and all acts reasonably deemed by the Management Committee to be necessary or appropriate in furtherance of the purposes of the Partnership or forbear from doing any act if the Management Committee reasonably deems such forbearance necessary or appropriate in furtherance of the

purposes of the Partnership, including without limitation, the power and authority:

- agreements of every kind necessary or incidental to the accomplishment of the Partnership's purposes, including, without limitation, contracts and agreements with any Partner and the affiliates of any Partner, and to take or omit such other or further action in connection with the Partnership's business as may be reasonably necessary or desirable in the opinion of the Management Committee to further the purposes of the Partnership; provided, however, that (i) any transaction between the Partnership and any of the Partners or any of their affiliates shall be documented and shall become part of the records of the Partnership; and (ii) any such contracts or agreements shall be on terms no more favorable to such Partner or affiliate than the terms available to the Partnership from third parties;
- (2) To borrow from banks and other lenders on such terms and conditions as shall be approved by the Management Committee and to secure any such borrowings by mortgaging, pledging or assigning assets and revenues of the Partnership to the extent deemed necessary or desirable by the Management Committee;
- (3) To invest such funds as are temporarily not required for Partnership purposes in debt obligations selected by the Management Committee including government

securities, certificates of deposit of commercial banks (domestic or foreign), commercial paper, bankers' acceptances and other money market instruments; and

- (4) To carry on any other activities necessary to, in connection with or incidental to any of the foregoing.
- 6.2 <u>Management Compensation and Reimbursement of the Partners</u>
- (a) Operating and Management Expenses. The Partners may be reimbursed by the Partnership monthly for any reasonable and necessary expenses incurred by the Partners on behalf of the Partnership in providing cellular service, including reasonable and necessary administrative and general overhead expenses, including, but not limited to, marketing, maintenance, message charges, facilities, engineering, customary legal, accounting and audit fees, development and implementation of billing procedures, expenses of preparing tax returns and reports, taxes, travel, office rent, telephone, salaries (including social security, relief, pensions and other benefits), and other incidental business expenses incurred by the Partners on behalf of the Partnership in connection with the provision of Cellular Service. Reimbursement must be approved by the Management Committee.
- (b) <u>Powers of the Management Committee</u>. In addition to those powers vested pursuant to Section 6.1(b) and subject to the limitations set forth in this Agreement, the Management Committee hereby is vested with the power to:
 - (1) Manage, supervise and conduct the affairs of the Partnership;

- (2) Make all elections, investigations, evaluations and decisions, binding the Partnership thereby, that may be necessary or appropriate in connection with the business purposes of the Partnership;
- (3) Incur obligations or make payments on behalf of the Partnership in its own name or in the name of the Partnership;
- (4) Execute all instruments of all kind or character which the Management Committee in its discretion shall deem necessary or appropriate in connection with the business purposes of the Partnership;
- (5) Enter into agreements with other providers of Cellular Service (including Affiliates of the Management Committee) to obtain switching services when, in the judgment of the Management Committee, such agreements are in the best interest of the Partnership.

6.3 Partnership Funds.

The funds of the Partnership shall be deposited in such account or accounts as are designated by the Management Committee and shall not be commingled with the funds of any Partner or any affiliate thereof. All withdrawals from such account(s) shall be made upon such authorized signature(s) as the Management Committee may from time to time, determine.

6.4 Indemnification.

The Partnership shall indemnify and hold harmless the Partners from and against any loss, expense, damage, or injury

suffered or sustained by them by reason of any acts, omissions, or alleged acts or omissions arising out of their activities on behalf of the Partnership or in furtherance of the interests of the Partnership, including but not limited to any judgment, award, settlement, reasonable attorneys' fees, and other costs or expenses incurred in connection with the defense of any actual or threatened action, proceedings, or claim, if the acts, omissions, or alleged acts or omissions upon which the actual or threatened action, proceedings, or claims are based were for a purpose reasonably believed to be in the best interests Partnership and were not performed or omitted fraudulently or in bad faith or as a result of negligence by a Partner and were not in violation of the Partner's fiduciary obligation to the Partnership. Any such indemnification shall be solely from the assets of the Partnership.

- 6.5 Other Matters Concerning the Partners.
- (a) Any Partner may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, bond, debenture, or other paper or document believed by it to be genuine and to have been signed or presented by the proper party or parties.
- (b) Any Partner may consult with legal counsel, accountants, appraisers, management consultants, investment bankers, and other consultants and advisors selected by it and may rely on any opinion of any such consultant or advisor as to matters which

the Partner believes to be within its professional or expert competence as long as the Partner acts in good faith and in accordance with such opinion.

6.6 General Partners' Other Business Activities.

It is recognized that the Partners and affiliates of the Partners are or may be engaged in the conduct of other substantial activities for their own account and for the accounts of others, including the management, ownership, and operation of cellular radio facilities in areas other than Kentucky RSA 3. The Partners and their officers, directors or representatives shall not be required to devote their full time to Partnership affairs but only such time as in their judgment the conduct of the Partnership affairs shall require.

6.7 Liability.

No Partner shall be liable, responsible, or accountable in damages or otherwise to the Partnership or any Partner for any action taken or failure to act on behalf of the Partnership within the scope of the authority conferred on any Partner by this Agreement or by law unless the act or omission was performed or omitted fraudulently or in bad faith or constituted negligence.

6.8 Bankruptcy. At the Bankruptcy of any Partner, that Partner (an "Inactive Partner") and any member of the Management Committee selected by that Partner pursuant to Section 6.1(a) shall cease to have any voice in the conduct of the affairs of the Partnership, and all acts, consents, and decisions with

respect to the Partnership shall thereafter be made by the other Partners. The Inactive Partner shall, nonetheless, remain liable for its share of any losses of the Partnership or contributions to the Partnership as provided herein, and shall be entitled to receive its share of income, gain, loss, deduction, credit, and distributions. For six months from and after the date of the Bankruptcy of any Partner, the other Partners shall have the irrevocable option to purchase the Inactive Partner's Partnership Any such purchase shall be made in proportion to the Interest. respective Percentage Interest of the other Partners at such time or in such other proportion as they may mutually agree. the other Partners exercise their option to purchase the Inactive Partner's Partnership Interest, they shall notify the Inactive Partner or his representative of their intention to do so within six-month option period. The purchase price of Partnership Interest purchase pursuant to this Section 6.8 shall be the Appraisal Price as (defined in Section 9.1(d)) and shall be payable in cash at the time specified in Section 9.1(e). Should the other Partners not exercise the option to purchase the Inactive Partner's Partnership Interest, the Inactive Partner shall remain an Inactive Partner in accordance with provisions set forth in this Section 6.8.

VII. BOOKS, RECORDS, ACCOUNTING AND REPORTS

7.1 Records and Accounting.

The Partnership shall keep or cause to be kept complete and accurate books with respect to the Partnership's business, which

books shall at all times be kept at the principal office of the Partnership. The books of the Partnership shall be maintained, for financial reporting purposes, on the accrual basis in accordance with generally accepted accounting principles.

7.2 Fiscal Year.

The fiscal year of the Partnership shall be the calendar year.

VII. INCOME TAX MATTERS

8.1 Organizational Expenses.

The Partnership shall elect to deduct expenses incurred in organizing the Partnership ratably over a sixty-month period as provided in Section 709 of the Code.

8.2 Taxation as a Partnership.

No election shall be made by the Partnership, or any Partner to be excluded from the application of any of the provisions of Subchapter K, Chapter 1 of Subtitle A of the Code or from any similar provisions of any state tax laws.

IX. TRANSFER OF PARTNERSHIP INTERESTS

9.1(a) Rights of First Refusal. The Partners agree they will not (directly or indirectly) sell, give, assign, pledge or otherwise transfer or encumber (any such event hereinafter referred to as "sell or transfer") their Partnership Interest except pursuant to the provisions of this Section 9.1, and any attempt to sell or transfer a Partnership Interest other than in accordance with the terms and provisions of this Section 9.1 shall be null and void and of no effect.

If a Partner desires to sell or transfer all or any part of its Partnership Interest (hereinafter "Desire to Sell") (hereinafter such party desiring to sell referred to as "Seller"), it shall notify the nonselling Partners ("Notice of Transfer") of the Desire to Sell, and, if such Desire to Sell is in response to a third party offer, such Notice of Transfer shall contain the terms of the third party offer and the identity of the prospective purchaser. For a period of 60 days after the last of the nonselling Partners receipt from Seller of a Notice of Transfer the Partners shall have an option ("Transfer Option") to purchase the Seller's Partnership Interest identified in the Notice of Transfer. The purchase price and the terms of sale for the Partnership Interest to be purchased pursuant to the Transfer Option shall be the price and terms identified in the Notice of Transfer or if the Notice of Transfer is not in response to a third party offer, the terms of sale shall be cash and the price shall be the Appraisal Price as defined in Section 9.1(d) of this Article IX. Unless they agree otherwise, those Partners exercising the Transfer Option by notifying the Seller in a timely manner (the "Purchasing Partners") shall be obligated to purchase that percentage of the Partnership Interest identified in the Notice of Transfer as the Partnership Interest of each such Purchasing Partner bears to the Partnership Interests of all Purchasing Partners, but the seller shall not be obligated to sell less than all of the Partnership Interest Identified in the Notice of Transfer, so exercising. The Purchasing Partners shall

have a period of sixty (60) days to arrange financing for and close the purchase transaction. During such sixty (60) day period, the Purchasing Partners shall also cause the Appraisal Price to be determined, if necessary.

- If the Partners do not exercise their respective options to purchase the Shares pursuant to Section 9.1(b) or if they fail or refuse to perform their purchase obligations after such exercise within the sixty (60) day period, such Partnership Interest may be sold or transferred by Seller for a period of sixty (60) days after the lapse of such options to the transferee identified in the Notice of Transfer at the purchase price and upon the terms specified in the Notice of Transfer. Unless the transferee becomes a substituted Partner pursuant to Article X, the transferee shall have no right to interfere in the management or administration of the Partnership's business or affairs, or to require any information or account of Partnership transactions, or to inspect the Partnership's books. The sale or transfer merely entitles the transferee to receive the share of distributions, income, and losses to which the Seller would otherwise be entitled.
- (d) The "Appraisal Price" shall mean the value of a Partnership Interest determined on the basis of the value of the Partnership as a going concern, on the basis of such Partnership Interests being free of all restrictions imposed by this Agreement and on a basis exclusive of any adjustment to such value due to the illiquidity of or absence of any market for such

Partnership Interest. The Appraisal Price shall be determined as follows: within ten (10) days after exercise of the Transfer Option pursuant to Section 9.1, the Purchasing Partners and the Seller shall use their best efforts to agree on an Appraisal If they fail to agree, then on the eleventh (11th) day after such exercise, the Seller, on the one hand, and the Purchasing Partners on the other, shall notify each other in writing of its opinion as to the Appraisal Price and the identity of an appraiser it has selected to determine the Appraisal Price. Each such appraiser shall deliver its report to the Seller and Purchasing Partners, and to the other appraiser, within fortyfive (45) days of the giving of such notice and the two appraisers shall meet and attempt to determine the Appraisal Price within sixty (60) days after the exercise of the Transfer Option under Section 9.1(b). If the two appraisers fail to reach agreement within such sixty (60) day period they shall, at the end of such period, agree on a third appraiser who shall determine a third Appraisal Price. The third appraiser shall not be given the Appraisal Prices of the first two appraisers. Final Appraisal Price shall be (i) the amount agreed to by the two parties if they do agree, or (ii) the amount specified in the notice given by one party on the eleventh (11th) day as above in the event that the other party fails to give notice on that day designating an appraiser or if the appraiser designated by such accordance with the party fails to perform in schedule contemplated hereby or fails to act in good faith, or (iii) the

amount agreed to by the two appraisers appointed by the parties if clauses (i) or (ii) immediately preceding are not applicable, or (iv) if a third appraiser has been appointed, the average of the two closest appraisals. All costs of the appraisals hereunder shall be paid 25% by the Purchasing Partners and 75% by the Seller. The Parties shall cooperate fully with each appraiser appointed under this Section 9.1 and shall fully disclose any and all information including, without limitation, any business plans or forecasts of the Partnership which is or may be material to the valuation of the Partnership as a going concern.

- (e) The closing of any purchase transaction created pursuant to this Section 9.1 shall take place on or before the one-hundred twentieth (120) day after exercise of the Transfer Option. At the closing, Seller shall deliver the Partnership Interest free and clear of all liens and restrictions against delivery to it of the purchase price required by this Section 9.1.
- 9.2 <u>Tiered Acquisition</u>. Regardless of any contrary provision of this Agreement, no Person may acquire from any Partner or Partners (in either case, a "Selling Partner") a Partnership Interest unless the Person also offers to acquire the Partnership Interest of each other Partner at a price and under terms and conditions that are at least as favorable as those by which the Person offers to acquire the Partnership Interest from the Selling Partner. Any acquisition of an interest in the

Partnership in violation of this Section 9.2 shall be deemed null and void and of no effect.

X. ADMISSION OF OTHER GENERAL PARTNERS

By a vote of the Partners owning at least a Majority Interest of the Partnership, one or more parties may become additional or substituted partners. In the event of any such addition or substitution (i) the new Partner shall participate in the Partnership on the same terms and conditions as described in this Agreement, and shall be subject to and bound by all of the provisions of this agreement as if originally a party of this Agreement and (ii) the Partnership Interests of the other Partners shall be adjusted according to their then current respective Partnership Interests.

XI. DISSOLUTION AND LIQUIDATION

11.1 Dissolution.

The Partnership may be dissolved only upon:

- (a) the sale or other disposition of all or substantially all of the partnership's assets;
- (b) an election to dissolve the Partnership by the affirmative vote of the Partners owning at least eighty percent (80%) of the Partnership Interests.
- (c) the Bankruptcy of any Partner; provided that the remaining Partners shall have the authority to continue the business of the Partnership within

the meaning of Section 362.335(2)(b) of the Kentucky Act.

- (d) any other event that, under the Kentucky Act, would cause its dissolution.
- 11.2 The Partners shall liquidate the assets of the Partnership, and apply and distribute the proceeds of such liquidation in the following order of priority, unless otherwise required by mandatory provisions of applicable law:
- (a) the payment to creditors of the Partnership, including Partners, in order or priority provided by law;
- (b) to the Partners, in proportion to and to the extent of the positive balances in their respective Capital Accounts; and
- (c) to the Partners in accordance with their respective Percentage Interests; provided, however, that the Partners may place in escrow a reserve of cash or other assets of the Partnership for contingent liabilities in an amount determined by the Partners to be appropriate for such purposes.

11.3 Distribution in Kind.

Notwithstanding the provisions of Section 11.2 which require the liquidation of the assets of the Partnership, but subject to the order of priorities set forth therein, if on dissolution of the Partnership the Partners determine that an immediate sale of part or all of the Partnership's assets would be impractical or would cause undue loss to the Partners, the Partners may, by a vote of a Majority Interest defer for a reasonable time the liquidation of any assets except those necessary to satisfy lia-

bilities of the Partnership (other than those to Partners) and/or may, in its absolute discretion, distribute to the Partners prorata, in lieu of cash, as tenants in common and in accordance with the provisions of Section 11.2, undivided interests in such Partnership assets as the Partners deem not suitable for liquidation. Any distributions in kind shall be subject to such conditions relating to the disposition and management thereof as the Partners deem reasonable and equitable and to any joint operating, charter or management agreements or other agreements governing the operation of such properties at such time. The Partners shall determine the fair market value of any property distributed in kind using such reasonable method of valuation as they may adopt.

11.4 Waiver of Partition.

Each Partner hereby waives any rights to partition of the Partnership property.

XII. AMENDMENT OF PARTNERSHIP AGREEMENT

The Partnership Agreement may be amended by a vote of the Partners owning at least eighty percent (80%) of the Partnership Interests, provided, however that no such amendment shall otherwise change any Partner's Partnership Interest as determined in this Agreement, or any Partner's voting rights as otherwise specified in this Agreement.

XIII. SALE OR TRANSFER OF PARTNERSHIP ASSETS

No direct or indirect sale or transfer of substantially all of the Partnerships assets or licenses is permitted without the

prior approval of Partners controlling at least eighty percent (80%) of the Partnership Interests.

XIV. GENERAL PROVISIONS

14.1 Addresses and Notices.

Any notice, demand, request or report required or permitted to be given or made to a Partner under this Agreement shall be in writing and shall be deemed given or made when delivered in person or when sent by first class mail or by other means of written communication to the Partner at the address set forth below.

Logan Telephone Cooperative
Incorporated
P. O. Box 97
Auburn, Kentucky 42206
Attention: George Wilford Arnold, Manager

Lewisport Telephone Company, Inc.
P.O. Box 439
Pell Street
Lewisport, Kentucky 42351
Attention: Wayne R. Watts, Vice Pres. and Manager

Brandenburg Telephone Co., Inc. 332 East Broadway Brandenburg, KY 40108 Attention: J. D. Tobin, Jr., President

North Central Telephone
Cooperative, Inc.
Highway 52 Bypass
Lafayette, TN 37083
Attention: F. Thomas Rowland, General Manager

South Central Rural Telephone
Cooperative Corporation, Inc.
Box 159
Glasgow, KY 42141
Attention: Clinton Quenzer, General Manager

Any notice, payment or report to be given or sent to a Partner hereunder shall be deemed conclusively to have been given or sent, and the obligation to give such notice or report or to make such payment shall be deemed conclusively to have been given or sent, and the obligation to give such notice or report or to make such payment shall be deemed conclusively to have been fully satisfied, upon mailing such notice, payment or report to such Partner by certified mail, return-receipt requested, at its address as shown above. Any notice to the Partnership shall be deemed given if received at the principal office of the Partnership designated pursuant to Section 1.3. The Partnership may rely and shall be protected in relying on any notice or other document from a Partner or other Person if believed by them to be genuine.

14.2 Titles and Captions.

All Article or section titles or captions in this Agreement are for convenience only. They shall not be deemed part of this Agreement and in no way define, limit, extend or describe the scope of intent of any provisions hereof.

14.3 Pronouns and Plurals.

Whenever the context may require, any pronoun used in this Agreement shall include the corresponding masculine, feminine or neuter forms, and the singular form of nouns, pronouns and verbs shall include the plural and vice versa.

14.4 Further Action.

The parties shall execute and deliver all documents, provide all information and take or refrain from taking action as may be

necessary or appropriate to achieve the purpose of this Agreement.

14.5 Binding Effect.

This Agreement shall be binding upon and inure to the benefits of the parties and their heirs, executors, administrators, successors, legal representatives and permitted assigns.

14.6 Integration.

This Agreement constitutes the entire Agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements and understandings pertaining thereto.

14.7 Creditors.

None of the provisions of this Agreement shall be for the benefits of or enforceable by an creditors of the Partnership.

14.8 Waiver.

No failure by any party to insist upon the strict performance of any covenant, duty, Agreement or condition of this Agreement or to exercise any right or remedy consequent upon a breach thereof shall constitute waiver of any such breach or any other covenant, duty, Agreement or condition.

14.9 Counterparts.

This Agreement may be executed in counterparts, all of which together shall constitute one Agreement binding on all the parties, notwithstanding that all the parties are not signatories to the original or the same counterpart.

14.10 Applicable Law.

This Agreement shall be construed in accordance with and governed by the laws of Kentucky, without regard to the principles of conflicts of law.

14.11 Invalidity of Provisions.

If any provision of this Agreement is or becomes invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein shall not be affected thereby.

2.4	
IN WITNESS WHEREOF, the par	ties hereto have executed this
Agreement as of this 3rd day	of <u>January</u> , 19 <u>90</u> , but
actually on the dates indicated be	low.
GENERAL PARTNERS:	
NORTH CENTRAL TELEPHONE COOPERATIVE, INC.	LOGAN TELEPHONE COOPERATIVE, INCORPORATED
By: And Will	By: Deorge Mr. arnold
Title: Franchis County	Title: Manager
Date:/3/90	Date: /- 3 - 90
BRANDENBURG TELEPHONE CO., INC.	LEWISPORT TELEPHONE COMPANY, INC.
Ву:	By: (My Places
Title: Tues; Ci	Title: Ca- fn.
Date: 1-3-90	Date: 1-3-90
	SOUTH CENTRAL RURAL TELEPHONE COOPERATIVE CORPORATION, INC. By: fleating fly many Title: flowers fly many Date: [-3-9]



KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN Governor

421 Buttermilk Pike Covington, KY 41017 www.transportation.ky.gov 859-341-2700

May 2, 2019

APPROVAL OF APPLICATION

APPLICANT: **BLUEGRASS CELLULAR BLUEGRASS CELLULAR** 2902 Ring Road Elizabethtown, KY 42702

SUBJECT: AS-043-M20-2019-035

STRUCTURE: LOCATION:

Antenna Tower Clarkson, KY

COORDINATES: 37° 21' 41.68" N / 86° 8' 21.97" W

HEIGHT:

250' AGL/1137'AMSL

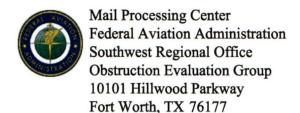
The Kentucky Airport Zoning Commission has approved your application for a permit to construct 250'AGL/ 1137'AMSL Antenna Tower near clarkson, KY 37° 21' 41.68" N / 86° 8' 21.97" W.

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.

Medium Dual Obstruction Lighting is required in accordance with 602 KAR 50:100.

John Houlihan Administrator





Issued Date: 03/04/2019

Doug Updegraff Bluegrass Cellular, Inc. 2902 Ring Road Elizabethtown, KY 42701

** 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 Wax

Location:

Clarkson, KY

Latitude:

37-21-41.68N NAD 83

Longitude:

86-08-21.97W

Heights:

887 feet site elevation (SE)

250 feet above ground level (AGL)

1137 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 L Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

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 o	f construction (74	60-2, Part 1)	
X	Within 5 days after the constru	ection reaches its g	greatest height (7460-2, Part 2)

This determination expires on 09/04/2020 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 2019-ASO-1280-OE.

Signature Control No: 394859695-398677508

(DNE)

Angelique Eersteling

Technician

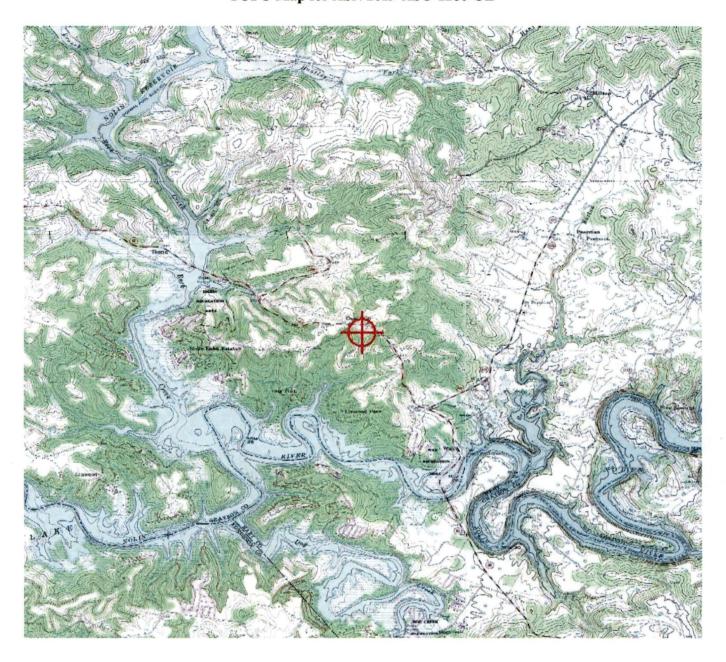
Attachment(s) Frequency Data Map(s)

cc: FCC

Frequency Data for ASN 2019-ASO-1280-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
				× 77
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	\mathbf{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	\mathbf{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	\mathbf{W}
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	\mathbf{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	\mathbf{W}

TOPO Map for ASN 2019-ASO-1280-OE



ASR Registration Search

Registration 1310238

Map Registration

Reg Number

1310238

Status

Granted

File Number

A1132126

Constructed

EMI

No

Dismantled

NEPA

Structure Type LTOWER - Lattice Tower

Lat/Long

Location (in NAD83 Coordinates) 37-21-41.7 N 086-08-22.0 W

Address

Wax, 12523 Peonia Road

City, State

Clarkson, KY

Zip

42726

County

GRAYSON

Center of

Position of Tower in Array

AM Array

Heights (meters)

Elevation of Site Above Mean Sea Level

Overall Height Above Ground (AGL)

270.4

76.2

Overall Height Above Mean Sea Level

Overall Height Above Ground w/o

Appurtenances

346.6

73.2

Painting and Lighting Specifications

FAA Chapters 4, 8, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1L

FAA Notification

FAA Study

2019-ASO-1280-OE

FAA Issue Date 03/04/2019

FRN

0001786706

Owner Entity

General Partnership

Type

Owner

KENTUCKY RSA 3 CELLULAR GENERAL

P: (270)769-0339

PARTNERSHIP 2902 RING ROAD

E: jvice@bluegrasscellular.com

P.O. Box 5012

ELIZABETHTOWN, KY 42701

Contact

Gist, Pamela L Esq

P: (703)584-8665

Attention To: Pamela L Gist

F:

8300 Greensboro Drive, Suite 1200

E: pgist@fcclaw.com

Tysons , VA 22102

Status

Granted

Received

05/02/2019



UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION ANTENNA STRUCTURE REGISTRATION



OWNER: KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP

FCC Registration Number (FRN): 0001786706

		Antenna Structure Registration Number
KENTUCKY RSA 3 CEI PO BOX 5012 2902 RING ROAD ELIZABETHTOWN, KY	LULAR GENERAL PARTNERSHIP 42701	1310238
		Issue Date
		05-02-2019
Location of Antenna Str	ucture	Ground Elevation (AMSL)
Wax, 12523 Peonia Road	ı	270.4 meters
Clarkson, KY 42726		Overall Height Above Ground (AGL)
County: GRAYSON	7 9	76.2 meters
Latitude	Longitude	Overall Height Above Mean Sea Level (AMSL)
37- 21- 41.7 N	086- 08- 22.0 W NAD83	346.6 meters
C	Center of Array Coordinates	Type of Structure
	N/A	LTOWER
	IVA	Lattice Tower

FAA Chapters 4, 8, 12

Paint and Light in Accordance with FAA Circular Number 70/7460-1L

This registration is effective upon completion of the described antenna structure and notification to the Commission. YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854. To file electronically, connect to the antenna structure registration system by pointing your web browser to http://wireless.fcc.gov/antenna. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

FCC 854R June 2012 You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

- Posting the Registration Number: The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).
- Inspecting lights and equipment: The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.
- Reporting outages and malfunctions: When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.
- Maintaining assigned painting: The antenna structure must be repainted as often as necessary to maintain good visibility.
- Complying with environmental rules: If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).
- *Updating information:* The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

Copies of the Code of Federal Regulations (which contain the FCC's antenna structure registration rules, 47 C.F.R. Part 17) are available from the Government Printing Office (GPO). To purchase CFR volumes, call (202) 512-1800. For GPO Customer Service, call (202) 512-1803. For additional FCC information, consult the Antenna Homepage on the internet at http://wireless.fcc.gov/antenna or call (877) 480-3201 (TTY 717-338-2824).



May 1, 2019

Bluegrass Cellular

RE: Q19333 Wax 240' WSST Fall Radius

Upon receipt of order, we propose to design and supply the above referenced WSSTP tower for an ultimate 3-second gust wind speed of 105 mph per ASCE7-16, Exposure Category C, Topographic Category 1, and Risk Category II were used in this analysis.

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the self support tower will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be in the legs from 140'-160'. Assuming the wind pressure profile is similar to that used to design the self support tower, the self support legs will buckle at this location, causing the tower to fall within the design radius of 50% of the tower height.

Sincerely,

William Holt, PE

OF KENTUC WILLIAM B. TA HOLT * 32430 ##



World Tower COMPANY, INC.

1213 Compressor Drive P.O. Box 508 Mayfield, KY 42066 270-247-3642 FAX: 270-247-0909

E-mail: worldtower@worldtower.com
Web: www.worldtower.com

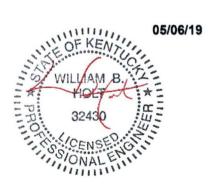


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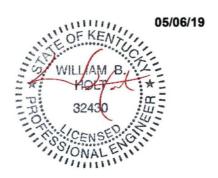
Web: www.worldtower.com

240' MODEL WSST TOWER FOR: BLUEGRASS WIRELESS SITE: WAX GRAYSON COUNTY, KY DESIGN PACKAGE



GENERAL NOTES

- 1. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
- 2. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
- 3. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
- 4. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND OR PIPE AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
- 5. ALL STRUCTURAL BOLTS ARE ASTM A325X, THREADS EXCLUDED FROM SHEAR PLANE.
- 6. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA-222-G EVERY 5 YEARS.
- 7. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.

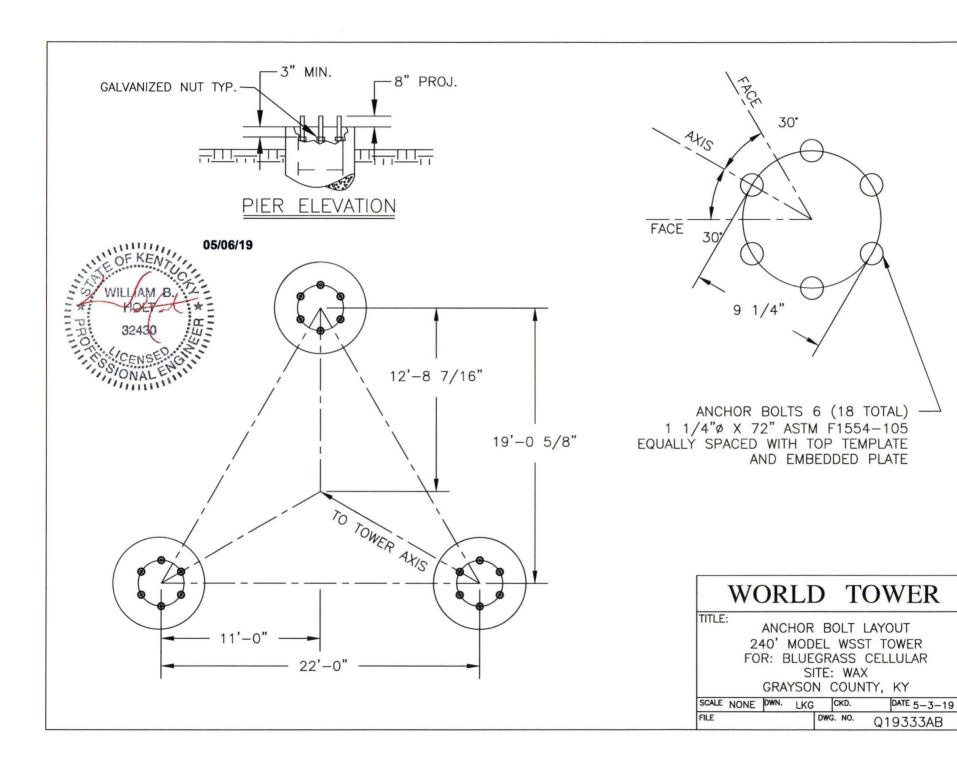


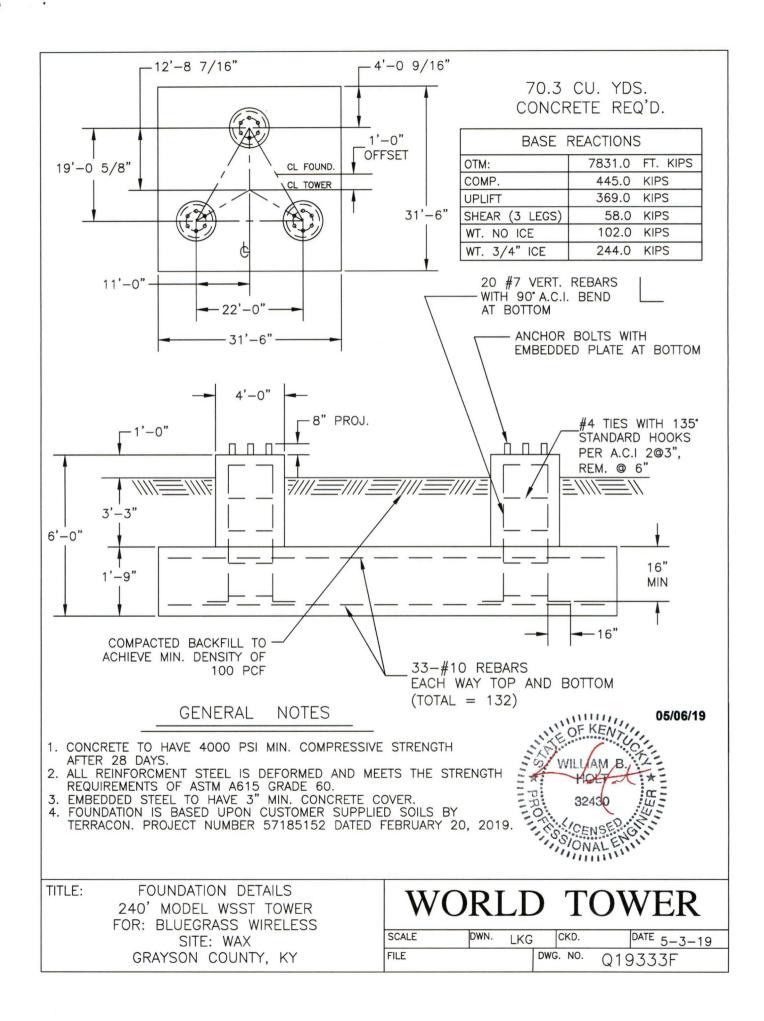
WORLD TOWER

TITLE:

240' MODEL WSST TOWER FOR: BLUEGRASS CELLULAR SITE: WAX GRAYSON COUNTY, KY

SCALE	DWN. L	KG	CKD.	DATE 5-3-19
		DWG.	NO.	Q19333N





172 172 172 172 173	SR 4 1/4 SR 4 1/4 SR 4 1/2 SR 4 1/2 SR 4 1/4 SR 3/4 L3x3x1/4 L3x3x1/4 L3x3x3/16	SR 4 14 SR 4 170	T12 T12 T10 T10 T10 T10 T10 T11 T10 T11 T11 T12 T12	SR 4 1/4 SR 4	SR 4 1/4 SR 4	SR 4 A SR 4 B T T T T T T T T T	172 1724 1724 1724 1725 1724 1725 1724 1725 1724 1725 1724 1725 1724 1234 1725 1724 1234 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1345 1344 1344 1345 1344 1344 1345 1344 1	SR 4 1/4 SR 4	SR 1/4 SR 2 1/4 SR 3 1/4 SR 2 3/4
111 SR 4 110 110 110 110 110 110 110 110 110 1	SR 4 Tro Tro Tro SR 4 L3x3x1/4 L3x3x1/4 L3x3x1/4 L3x3x1/4 L3x3x3/16 L3x3x1/4 L3x3x1/6 L3x3x1/4 L3x3x1/6 L3x3x1/	SR 4 SR 334 T38 122414 L3 1/2x3 1/2x114 L3x3x114 L3x3	13 170 170 170 171	13 17243 1724	13 170	13 1724 173 174	13 124	13 12 12 12 12 12 12 12	SR 3 14 SR 3 SR 3 14 SR 3 SR 3 14 SR 3
00.00 ft 60.00 ft 60.	97 SR 3 344 6 60'0 tt	170 170 170 170 170 170 170 170 170 170	110 T79 T78 334 T88 712 T77 T78 T78 T78 T78 T78 T78 T78 T78 T78	TTO	T10 T19 T18 T17 T18 T18 T18 T19	T10 T77 T78 T78 T78 T78 T78 T78 T78 T78 T78	Transport	Transport Tran	14.5 14.5
₽ Q	SR S SR	14.5	14.5	14.5	14.5	14.5	14 11 14 15 14 15 14 15 14 15 14 15 15	134 SR 3 34 SR 3 14 SR 3 14 SR 3 14 SR 3 14 SR 2 34 SR	SR3 34 SR 214 SR314 A672-60 L3x3x14 A672-60 L3x3x3/14 A672-60 L3x3x3/14 A686 L2x2x1/2 12x2 12x3/14 A686 L2x2x3/4 SR 2 1/4 A686 L2x2x3/6 L
	80.0 ft	138 144 L383X114 N.A. N.A. 138 138 138 138 138 138 138 138 138 138	134 SR 3 1/2 L3x3x1/4 N.A. N.A. 13 N.A. 13 44 @ 5 34 44 @ 5	13	34 SR 3 1/2 SR 3 1/4 A572-50 L3x3x/14 N.A. N.A. 1.2 1/2x2 1/2x3/16 N.A. 1.3 1/1.5 10 44 @ 5 3.4 2.7 2.4 1.4 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 1222 122316	13 17 17 17 17 17 17 17	13 SR 3 172 SR 2 174 SR 2 174 SR 3 174 SR 2 174 SR 2 174 SR 2 172 SR 2 3/4 SR 2 1/2	34 SR 3 14 SR 214 A572-50 L3x3x1/4 A672-50 L3x3x1/4 A672-50 L3x3x1/4 A6 6 L2 1/22 1/22 1/22 1/22 1/2 2/1 A 6 6 5 A 6 6 5 B 6 7 7 5 5 6 B 7 7 5 5 6 B 7 7 5 5 6 B 7 7 5 5 6 B 7 7 5 5 6 B 7 7 5 5 6 B 7 7 5 6 6 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 5 6 7 B 7 7 6 7 B 7 7 6 7 B 7 7 6 7 B 7 7 6 7 B 7 7 7 6 7 B 7 7 7 6 7 B 7 7 7 6 7 B 7 7 7 7 7 7 B 7 7 7 7 7 B 7 7 7 7

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) 800 10965 w/Mount Pipe	240	WD13X53 Antenna Mounting Frame	220
(2) 800 10965 w/Mount Pipe	240	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	240	(2) 800 10965 w/Mount Pipe	210
WD13X53 Antenna Mounting Frame	240	(2) 800 10965 w/Mount Pipe	210
(w/ .75)*		(2) 800 10965 w/Mount Pipe	210
WD13X53 Antenna Mounting Frame (w/ .75)*	240	WD13X53 Antenna Mounting Frame (w/ .75)*	210
WD13X53 Antenna Mounting Frame (w/ .75)*	240	WD13X53 Antenna Mounting Frame (w/ .75)*	210
(2) 800 10965 w/Mount Pipe	230	WD13X53 Antenna Mounting Frame	210
(2) 800 10965 w/Mount Pipe	230	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	230	(2) 800 10965 w/Mount Pipe	200
WD13X53 Antenna Mounting Frame	230	(2) 800 10965 w/Mount Pipe	200
(w/ .75)*		(2) 800 10965 w/Mount Pipe	200
WD13X53 Antenna Mounting Frame (w/ .75)*	230	WD13X53 Antenna Mounting Frame (w/ .75)*	200
WD13X53 Antenna Mounting Frame (w/ .75)*	230	WD13X53 Antenna Mounting Frame (w/ .75)*	200
(2) 800 10965 w/Mount Pipe	220	WD13X53 Antenna Mounting Frame	200
(2) 800 10965 w/Mount Pipe	220	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	220	4.5"x7' Pipe Mount	190
WD13X53 Antenna Mounting Frame (w/ .75)*	220	HPD6-5.9	190
WD13X53 Antenna Mounting Frame (w/ .75)*	220		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

- Tower is located in Grayson County, Kentucky.
 Tower designed for Exposure C to the TIA-222-G Standard.
 Tower designed for a 105.00 mph basic wind in accordance with the TIA-222-G Standard.
- 4. Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
- 5. Deflections are based upon a 60.00 mph wind.
- 6. Tower Risk Category II.
- 7. Topographic Category 1 with Crest Height of 0,00 ft
 8. fall radius less than half tower height per custome spec
- 9. TOWER RATING: 99.9%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 445 K SHEAR: 37 K

UPLIFT: -369 K SHEAR: 32 K

AXIAL 244 K

SHEAR MOMENT 7 K 1089 kip-ft

TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE

AXIAL 102 K SHEAR MOMENT 7831 kip-ft 58 K

TORQUE 24 kip-ft REACTIONS - 105.00 mph WIND 05/06/19

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job: 240' W SST / Ru	ın Q19333	
Project: Wax		
Client: Bluegrass Cellular	Drawn by: WBH	App'd:
Code: TIA-222-G	Date: 05/01/19	Scale: NTS
Dath:		Dwg No -

SR 4 1/4 SR 4 SR 4 SR 3 34 SR 3 1/4 SR 3 1/	Section	T12	111	T10	£1	18		11	76	ZT		T4		2	57.
13 1263 1261 4 12 1263 1261 4 12 12 12 12 12 12 12	Legs	SR 4 1/4	SR	4	U)	3R 3 3/4		SR 3 1/2	SR 3 1/4		SR 3			SR 2 3/4	SR 2 3/4 SR 2 1/4
134724144	Leg Grade							A57:	2-50						
NA N	Diagonals		L3 1/2x3 1/2x1/4			L3x3x	1/4		เรา	(3x3/16		L2 1/2x2 1/	/2x3/16		L2x2x3/16
NA. NA. NA. NA. NA. NA. NA. NA.	Diagonal Grade							A	36						
NA. 13 1723 172414 L333414 L333414 L3333416 L2 1722 1722 1723 17316 14 14 15 11 15	Top Girts						N.A.								L2x2x1/8
13 1725 1724 1724 1725 1724 1724 1725 1724 1724 1724 1724 1724 1724 1724 1724	Bottom Girts							N.A.							
140.0 ft	Horizontals	L3 1/2x3 1/2x1/4	L3x3x1/4	L3x3	x3/16		L2 1/2x2 1/2x3/	16	2	2x3/16			N.A.		
180.0 ft 180.0 ft 17 180.0 ft 180.0	sec. Horizontals							N.A.							
97 180.0 ft	ace Width (ft) 22		18			4.5	13	11.5		10	8.5	7	4,	ro.	
180.0 ft 180	Panels @ (ft)							44 @ 5							
180.0 ft 160.0 ft 140.0 ft 120.0 ft 40.0 ft			5.0	4.7	4.0	3.8		3.4	2.7	2.4		2.3	6.1	Н	1.3
					60.0 ft	80,0 ft	100.0 ft		120.0 ft	140.0 ft	160.0 ft	180.0 ft	400.0 #		200.0 ft

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) 800 10965 w/Mount Pipe	240	WD13X53 Antenna Mounting Frame	220
(2) 800 10965 w/Mount Pipe	240	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	240	(2) 800 10965 w/Mount Pipe	210
WD13X53 Antenna Mounting Frame	240	(2) 800 10965 w/Mount Pipe	210
(w/ .75)*		(2) 800 10965 w/Mount Pipe	210
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(2) 800 10965 w/Mount Pipe	230	WD13X53 Antenna Mounting Frame	210
(2) 800 10965 w/Mount Pipe	230	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	230	(2) 800 10965 w/Mount Pipe	200
WD13X53 Antenna Mounting Frame	230	(2) 800 10965 w/Mount Pipe	200
(w/ .75)*		(2) 800 10965 w/Mount Pipe	200
WD13X53 Antenna Mounting Frame (w/ ,75)*	230	WD13X53 Antenna Mounting Frame (w/ .75)*	200
WD13X53 Antenna Mounting Frame (w/ ,75)*	230	WD13X53 Antenna Mounting Frame (w/ .75)*	200
(2) 800 10965 w/Mount Pipe	220	WD13X53 Antenna Mounting Frame	200
(2) 800 10965 w/Mount Pipe	220	(w/ .75)*	
(2) 800 10965 w/Mount Pipe	220	4.5"x7' Pipe Mount	190
WD13X53 Antenna Mounting Frame (w/ .75)*	220	HPD6-5.9	190
WD13X53 Antenna Mounting Frame (w/ .75)*	220		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

- 1. Tower is located in Grayson County, Kentucky.
- 2. Tower designed for Exposure C to the TIA-222-G Standard.
- 3. Tower designed for a 105.00 mph basic wind in accordance with the TIA-222-G Standard.
- 4. Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
- 5. Deflections are based upon a 60.00 mph wind.
- 6. Tower Risk Category II.
- Topographic Category 1 with Crest Height of 0.00 ft
 fall radius less than half tower height per custome spec
- 9. TOWER RATING: 99.9%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 445 K SHEAR: 37 K

UPLIFT: -369 K SHEAR: 32 K

AXIAL 244 K SHEAR MOMENT 7 K 1089 kip-ft

TORQUE 2 kip-ft 30.00 mph WIND - 0.75 in ICE

AXIAL 102 K SHEAR MOMENT 58 K 7831 kip-ft

TORQUE 24 kip-ft REACTIONS - 105.00 mph WIND

> World Tower Company ^{b:} 240' WSST / Run Q19333 oject: Wax 1213 Compressor Drive Client: Bluegrass Cellular Drawn by: WBH App'd: Mayfield, KY Code: TIA-222-G Scale: NTS Date: 05/01/19 Phone: (270) 247-3642 Dwg No. E-1 FAX: G:\World Tower\2019\KY\Q19333 Wax\Analysis\Q19333.er

World Tower Company 1213 Compressor Drive

> Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	1 of 22
Project		Date
	Wax	11:37:13 05/01/19
Client	DI	Designed by
	Bluegrass Cellular	WBH

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 240.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 4.00 ft at the top and 22.00 ft at the base.

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

The following design criteria apply:

Tower is located in Grayson County, Kentucky.

ASCE 7-10 Wind Data is used.

Basic wind speed of 105.00 mph.

Risk Category II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.75 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 30.00 mph is used in combination with ice.

Temperature drop of 30 °F.

Deflections calculated using a wind speed of 60.00 mph.

fall radius less than half tower height per custome spec.

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

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

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

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification

- √ Use Code Stress Ratios
- √ Use Code Safety Factors Guys
 Escalate Ice
 Always Use Max Kz
 Use Special Wind Profile
- √ Include Bolts In Member Capacity
 Leg Bolts Are At Top Of Section
- √ Secondary Horizontal Braces Leg
 Use Diamond Inner Bracing (4 Sided)
- √ SR Members Have Cut Ends SR Members Are Concentric

Distribute Leg Loads As Uniform Assume Legs Pinned

- Assume Legs Pinned

 √ Assume Rigid Index Plate
- √ Use Clear Spans For Wind Area
- ✓ Use Clear Spans For KL/r
 Retension Guys To Initial Tension
- √ Bypass Mast Stability Checks
- √ Use Azimuth Dish Coefficients
- √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination
- √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs

Use ASCE 10 X-Brace Ly Rules

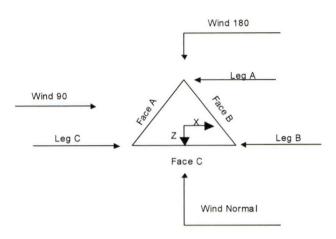
- √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA
- √ SR Leg Bolts Resist Compression
 All Leg Panels Have Same Allowable
 Offset Girt At Foundation
- √ Consider Feed Line Torque
- √ Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption Poles

Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known

World Tower Company 1213 Compressor Drive Mayfield, KY

Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 2 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number	Section Length
section	Elevation	Database		rriain	of Sections	Lengin
	ft			ft	Sections	ft
T1	240.00-220.00			4.00	1	20.00
T2	220.00-200.00			4.00	1	20.00
T3	200.00-180.00			5.50	1	20.00
T4	180.00-160.00			7.00	1	20.00
T5	160.00-140.00			8.50	1	20.00
T6	140.00-120.00			10.00	1	20.00
T7	120.00-100.00			11.50	1	20.00
T8	100.00-80.00			13.00	1	20.00
T9	80.00-60.00			14.50	1	20.00
T10	60.00-40.00			16.00	1	20.00
T11	40.00-20.00			18.00	1	20.00
T12	20.00-0.00			20.00	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End	Has Horizontals	Top Girt Offset	Bottom Girl Offset
	ft	ft		Panels		in	in
T1	240.00-220.00	3.21	K Brace Left	No	Yes+Steps	4.50	4.50
T2	220.00-200.00	5.00	X Brace	No	No	0.00	0.00
T3	200.00-180.00	5.00	X Brace	No	No	0.00	0.00

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 3 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace	Has Horizontals	Top Girt Offset	Bottom Girt Offset
				End			
	ft	ft		Panels		in	in
T4	180.00-160.00	5.00	X Brace	No	No	0.00	0.00
T5	160.00-140.00	5.00	Double K	No	Yes	0.00	0.00
T6	140.00-120.00	5.00	Double K	No	Yes	0.00	0.00
T7	120.00-100.00	5.00	Double K	No	Yes	0.00	0.00
T8	100.00-80.00	5.00	Double K	No	Yes	0.00	0.00
T9	80.00-60.00	5.00	Double K	No	Yes	0.00	0.00
T10	60.00-40.00	5.00	Double K	No	Yes	0.00	0.00
T11	40.00-20.00	5.00	Double K	No	Yes	0.00	0.00
T12	20.00-0.00	5.00	Double K	No	Yes	0.00	0.00

Tower Section Geometry (cont'd)

Tower	Leg	Leg	Leg	Diagonal	Diagonal	Diagonal
Elevation	Type	Size	Grade	Type	Size	Grade
ft						
T1 240.00-220.00	Solid Round	1 1/2	A572-50	Solid Round	1	A36
			(50 ksi)			(36 ksi)
T2 220.00-200.00	Solid Round	2 1/4	A572-50	Equal Angle	L2x2x3/16	A36
			(50 ksi)			(36 ksi)
T3 200.00-180.00	Solid Round	2 3/4	A572-50	Equal Angle	L2 1/2x2 1/2x3/16	A36
			(50 ksi)			(36 ksi)
T4 180.00-160.00	Solid Round	3	A572-50	Equal Angle	L2 1/2x2 1/2x3/16	A36
			(50 ksi)			(36 ksi)
T5 160.00-140.00	Solid Round	3	A572-50	Equal Angle	L3x3x3/16	A36
			(50 ksi)			(36 ksi)
T6 140.00-120.00	Solid Round	3 1/4	A572-50	Equal Angle	L3x3x3/16	A36
			(50 ksi)			(36 ksi)
T7 120.00-100.00	Solid Round	3 1/2	A572-50	Equal Angle	L3x3x1/4	A36
			(50 ksi)			(36 ksi)
T8 100.00-80.00	Solid Round	3 3/4	A572-50	Equal Angle	L3x3x1/4	A36
			(50 ksi)			(36 ksi)
T9 80.00-60.00	Solid Round	3 3/4	A572-50	Equal Angle	L3x3x1/4	A36
			(50 ksi)			(36 ksi)
T10 60.00-40.00	Solid Round	4	A572-50	Equal Angle	L3 1/2x3 1/2x1/4	A36
			(50 ksi)			(36 ksi)
T11 40.00-20.00	Solid Round	4	A572-50	Equal Angle	L3 1/2x3 1/2x1/4	A36
			(50 ksi)			(36 ksi)
T12 20.00-0.00	Solid Round	4 1/4	A572-50	Equal Angle	L3 1/2x3 1/2x1/4	A36
			(50 ksi)			(36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 240.00-220.00	Solid Round	1 1/8	A36	Solid Round	1	A36
			(36 ksi)			(36 ksi)
T2 220.00-200.00	Equal Angle	L2x2x1/8	A36	Equal Angle		A36
			(36 ksi)			(36 ksi)

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 4 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower Section Geometry (cont'd)										
Tower Elevation	No. of Mid	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade			
ft	Girts			126	C I'I D		126			
T1 240.00-220.00	None	Single Angle		A36 (36 ksi)	Solid Round	1	A36 (36 ksi)			
T5 160.00-140.00	None	Single Angle		A36	Equal Angle	L2x2x3/16	A36			
T6 140.00-120.00	None	Single Angle		(36 ksi) A36	Equal Angle	L2x2x3/16	(36 ksi) A36			
				(36 ksi)			(36 ksi)			
T7 120.00-100.00	None	Single Angle		A36 (36 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)			
T8 100.00-80.00	None	Single Angle		A36	Equal Angle	L2 1/2x2 1/2x3/16	A36			
T9 80.00-60.00	None	Single Angle		(36 ksi) A36	Equal Angle	L3x3x3/16	(36 ksi) A36			
T10 60.00-40.00	None	Double Angle		(36 ksi) A36	Equal Angle	L3x3x3/16	(36 ksi) A36			
				(36 ksi)	1		(36 ksi)			
T11 40.00-20.00	None	Double Angle		A36	Equal Angle	L3x3x1/4	A36			
				(36 ksi)			(36 ksi)			
T12 20.00-0.00	None	Double Angle		A36 (36 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A36 (36 ksi)			

Tower Section Geometry (cont'd)								
Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade		
ft C1 240.00-220.00	Solid Round	1	A36 (36 ksi)	Solid Round		A36 (36 ksi)		

	Tower Section Geometry (cont'd)												
Tower Elevation ft	Gusset Area (per face)	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A,	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in				
T1	0.00	0.00	A36	1	1	1.05	0.00	0.00	36.00				
240.00-220.00	0.00	0.00	(36 ksi)	1	1	1.05	0.00	0.00	30.00				
T2	0.50	0.38	A36	1	1	1.06	0.00	0.00	36.00				
220.00-200.00			(36 ksi)										
T3	0.50	0.38	A36	1	1	1.06	0.00	0.00	36.00				
200.00-180.00			(36 ksi)										
T4	0.50	0.38	A36	1	1	1.06	0.00	0.00	36.00				
180.00-160.00			(36 ksi)										
T5	0.50	0.38	A36	1	1	1.07	0.00	0.00	36.00				
160.00-140.00			(36 ksi)										
T6	0.50	0.38	A36	1	1	1.07	0.00	0.00	36.00				

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 5 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft^2	in					in	in	in
140.00-120.00			(36 ksi)						
T7	0.50	0.50	A36	1	1	1.07	0.00	0.00	36.00
120.00-100.00			(36 ksi)						
T8	0.50	0.50	A36	1	1	1.07	0.00	0.00	36.00
100.00-80.00			(36 ksi)						
T9 80.00-60.00	0.50	0.50	A36	1	1	1.08	0.00	0.00	36.00
			(36 ksi)						
T10	0.50	0.50	A36	1	1	1.08	0.00	0.00	36.00
60.00-40.00			(36 ksi)						
T11	0.50	0.50	A36	1	1	1.08	0.00	0.00	36.00
40.00-20.00			(36 ksi)						
T12 20.00-0.00	0.50	0.50	A36	1	1	1.08	0.00	0.00	36.00
			(36 ksi)						

Tower Section Geometry (cont'd)

		_				K Fa	ctors1			
Tower Elevation	Calc K Single	Calc K Solid	Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
	Angles	Rounds		X	X	X	X	X	X	X
ft				Y	Y	Y	Y	Y	Y	Y
T1	Yes	Yes	1	1	1	1	1	1	1	1
240.00-220.00				1	1	1	1	1	1	1
T2	Yes	Yes	1	1	1	1	1	1	1	1
220.00-200.00				1	1	1	1	1	1	1
T3	Yes	Yes	1	1	1	1	1	1	1	1
200.00-180.00				1	1	1	1	1	1	1
T4	Yes	Yes	1	1	1	1	1	1	1	1
180.00-160.00				1	1	1	1	1	1	1
T5	Yes	Yes	1	1	1	1	1	1	1	1
160.00-140.00				1	1	1	1	1	1	1
T6	Yes	Yes	1	1	1	1	1	1	1	1
140.00-120.00				1	1	1	1	1	1	1
T7	Yes	Yes	1	1	1	1	1	1	1	1
120.00-100.00				1	1	1	1	1	1	1
T8	Yes	Yes	1	1	1	1	1	1	1	1
100.00-80.00				1	1	1	1	1	1	1
T9	Yes	Yes	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	1	1	1	1
T10	Yes	Yes	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	1	1	1	1
T11	Yes	Yes	1	1	1	1	1	1	1	1
40.00-20.00				1	1	1	1	1	1	1
T12	Yes	Yes	1	1	1	1	1	1	1	1
20.00-0.00				1	1	1	1	1	1	1

Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
300	240' WSST / Run Q19333	6 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower Elevation ft	Leg		Diago	nal	Top G	irt	Botton	i Girt	Mid	Girt	Long Ho	rizontal	Short Ho	rizontal
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1	0.00	1	0.00	1	0.00	1	0.00	1	0.00	0.75	0.00	1	0.00	1
240.00-220.00 T2 220.00-200.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
Т3	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
200.00-180.00 T4	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
180.00-160.00 T5 160.00-140.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T6 140.00-120.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T7 120.00-100.00	0.00	- 1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T8 100.00 - 80.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T9 80.00-60.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T10	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
60.00-40.00 T11 40.00-20.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
T12 20.00-0.00	0.00	1	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75

Tower Section Geometry (cont'd)

Tower Elevation	Leg Connection	Leg	S S S S S S S S S S S S S S S S S S S	Diagor	nal	Top G	irt	Bottom	Girt	Mid G	irt	Long Hori	zontal	Short Hori	izontal
ft	Туре														
,	71	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.
		in		in		in		in		in		in		in	
T1	Flange	0.75	4	0.00	0	0.00	0	0.00	0	0.63	0	0.00	0	0.00	0
240.00-220.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T2	Flange	0.75	4	0.63	1	0.63	1	0.00	0	0.63	0	0.00	0	0.00	0
220.00-200.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T3	Flange	1.00	4	0.63	1	0.00	0	0.00	0	0.63	0	0.00	0	0.00	0
200.00-180.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T4	Flange	1.00	4	0.63	1	0.00	0	0.00	0	0.63	0	0.00	0	0.00	0
180.00-160.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T5	Flange	1.00	4	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
160.00-140.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T6	Flange	1.00	6	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
140.00-120.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T7	Flange	1.00	6	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
120.00-100.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T8	Flange	1.00	6	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
100.00-80.00		A325X		A325X		A325X		A325X		A325X		A325X		A325X	
T9 80.00-60.00	Flange	1.25	6	0.63	1	0.00	0	0.00	O	0.63	0	0.63	1	0.00	0
		A325X>1"		A325X		A325X		A325X		A325X		A325X		A325X	
T10	Flange	1.25	6	0.75	1	0.00	0	0.00	0	0.63	0	0.75	1	0.00	0
60.00-40.00		A325X>1"		A325X		A325X		A325X		A325X		A325X		A325X	
T11	Flange	1.25	6	0.75	1	0.00	0	0.00	0	0.63	0	0.75	1	0.00	0
40.00-20.00		A325X>1"		A325X		A325X		A325X		A325X		A325X		A325X	

tnxTower	Job	240' WSST / Run Q19333	Page 7 of 22
World Tower Company 1213 Compressor Drive	Project	Wax	Date 11:37:13 05/01/19
Mayfield, KY Phone: (270) 247-3642 FAX:	Client	Bluegrass Cellular	Designed by WBH

Tower Elevation ft	Leg Connection Type	Leg		Diagor	nal	Top G	irt	Bottom	Girt	Mid G	irt	Long Hori	zontal	Short Hori	izontal
•		Bolt Size in	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.
T12 20.00-0.00	Flange	1.25 F1554-105	6	0.75 A325X	1	0.00 A325X	0	0.00 A325X	0	0.63 A325X	0	0.75 A325X	1 ·	0.00 A325X	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face	Allow	Exclude	Component	Placement	Total	Number	Clear		Perimeter	Weight
	or	Shield	From	Type		Number	Per Row	Spacing	Diameter		
	Leg		Torque		ft			in	in	in	plf
			Calculation								. 200 000
Safety Line 3/8	C	No	No	Ar (CaAa)	240.00 - 5.00	1	1	0.38	0.38		0.22
1 5/8	A	No	No	Ar (CaAa)	5.00 - 240.00	18	6	0.52	1.98		1.04
1 5/8	В	No	No	Ar (CaAa)	5.00 - 230.00	18	6	0.52	1.98		1.04
1 5/8	C	No	No	Ar (CaAa)	5.00 - 220.00	18	6	0.52	1.98		1.04
1 5/8	A	No	No	Ar (CaAa)	5.00 - 210.00	18	6	0.52	1.98		1.04
1 5/8	В	No	No	Ar (CaAa)	5.00 - 200.00	18	6	0.52	1.98		1.04
W/G LADDER	A	No	No	Af (CaAa)	5.00 - 240.00	2	2	48.00	0.25		3.00
RAIL*											
W/G LADDER	В	No	No	Af (CaAa)	5.00 - 230.00	2	2	48.00	0.25		3.00
RAIL*											
W/G LADDER	C	No	No	Af (CaAa)	5.00 - 220.00	2	2	48.00	0.25		3.00
RAIL*											
EW52	C	No	No	Ar (CaAa)	5.00 - 190.00	1	1	0.50	1.74		0.59
								0.00			

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight
Section	ft		ft^2	ft ²	ft ²	ft ²	K
T1	240.00-220.00	A	0.000	0.000	72.947	0.000	0.49
		В	0.000	0.000	36.473	0.000	0.25
		C	0.000	0.000	0.750	0.000	0.00
T2	220.00-200.00	A	0.000	0.000	108.587	0.000	0.68
		В	0.000	0.000	72.947	0.000	0.49
		C	0.000	0.000	73.697	0.000	0.50
T3	200.00-180.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	75.439	0.000	0.50
T4	180.00-160.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T5	160.00-140.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T6	140.00-120.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T7	120.00-100.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T8	100.00-80.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 8 of 22
Project	Wax	Date 11:37:13 05/01/19
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Tower Section	Tower Elevation	Face	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight
	ft		ft ²	ft^2	ft²	ft^2	K
		С	0.000	0.000	77.182	0.000	0.51
T9	80.00-60.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T10	60.00-40.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T11	40.00-20.00	A	0.000	0.000	144.227	0.000	0.87
		В	0.000	0.000	144.227	0.000	0.87
		C	0.000	0.000	77.182	0.000	0.51
T12	20.00-0.00	A	0.000	0.000	108.170	0.000	0.65
		В	0.000	0.000	108.170	0.000	0.65
		C	0.000	0.000	57.886	0.000	0.38

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation	Face or	Ice Thickness	A_R	A_F	$C_A A_A$ In Face	$C_A A_A$ Out Face	Weight
	ft	Leg	in	ft^2	ft^2	ft²	ft^2	K
T1	240.00-220.00	A	1.821	0.000	0.000	68.755	0.000	1.83
		В		0.000	0.000	34.377	0.000	0.92
		C		0.000	0.000	8.036	0.000	0.10
T2	220.00-200.00	A	1.805	0.000	0.000	94.712	0.000	2.51
		В		0.000	0.000	68.510	0.000	1.82
		C		0.000	0.000	76.480	0.000	1.92
T3	200.00-180.00	A	1.787	0.000	0.000	120.524	0.000	3.18
		В		0.000	0.000	120.524	0.000	3.18
		C		0.000	0.000	81.458	0.000	1.99
T4	180.00-160.00	A	1.767	0.000	0.000	120.096	0.000	3.16
		В		0.000	0.000	120.096	0.000	3.16
		C		0.000	0.000	86.323	0.000	2.05
T5	160.00-140.00	A	1.745	0.000	0.000	119.620	0.000	3.14
		В	417.14	0.000	0.000	119.620	0.000	3.14
		C		0.000	0.000	85.821	0.000	2.03
T6	140.00-120.00	A	1.720	0.000	0.000	119.082	0.000	3.11
	110.00 120.00	В	1.720	0.000	0.000	119.082	0.000	3.11
		C		0.000	0.000	85.255	0.000	2.01
T7	120.00-100.00	A	1.692	0.000	0.000	118.464	0.000	3.08
. ,	120.00 100.00	В	1.072	0.000	0.000	118.464	0.000	3.08
		C		0.000	0.000	84.604	0.000	1.99
T8	100.00-80.00	A	1.658	0.000	0.000	117.736	0.000	3.04
10	100.00-00.00	В	1.030	0.000	0.000	117.736	0.000	3.04
		C		0.000	0.000	83.836	0.000	1.96
T9	80.00-60.00	A	1.617	0.000	0.000	116.845	0.000	3.00
.,	00.00-00.00	В	1.017	0.000	0.000	116.845	0.000	3.00
		C		0.000	0.000	82.897	0.000	1.92
T10	60.00-40.00	A	1.564	0.000	0.000	115.686	0.000	2.94
110	00.00-40.00	В	1.504	0.000	0.000	115.686	0.000	2.94
		C		0.000	0.000	81.675	0.000	1.87
T11	40.00-20.00	A	1.486	0.000	0.000	114.001	0.000	2.86
	70.00-20.00	В	1.400	0.000	0.000	114.001	0.000	2.86
		C		0.000	0.000	79.898	0.000	1.81
T12	20.00-0.00	A	1.331	0.000	0.000	82.993	0.000	2.03
112	20.00-0.00	В	1.331	0.000	0.000	82.993 82.993	0.000	2.03
		C		0.000	0.000	57.278	0.000	
				0.000	0.000	31.218	0.000	1.26

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 9 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X	CP_Z
	A	in	in	Ice	Ice in
	Jt			in	
T1	240.00-220.00	-2.71	-5.27	-1.87	-3.05
T2	220.00-200.00	-1.27	-2.74	-0.95	-1.20
T3	200.00-180.00	0.00	-4.83	0.00	-2.85
T4	180.00-160.00	0.00	-5.31	0.00	-2.90
T5	160.00-140.00	0.00	-6.02	0.00	-3.31
T6	140.00-120.00	0.00	-6.64	0.00	-3.67
T7	120.00-100.00	0.00	-7.13	0.00	-3.99
T8	100.00-80.00	0.00	-7.66	0.00	-4.32
T9	80.00-60.00	0.00	-8.05	0.00	-4.62
T10	60.00-40.00	0.00	-8.25	0.00	-4.89
T11	40.00-20.00	0.00	-8.77	0.00	-5.31
T12	20.00-0.00	0.00	-7.53	0.00	-4.85

Shielding Factor Ka

Tower	Feed Line	Description	Feed Line	K_a	K_a
Section	Record No.		Segment Elev.	No Ice	Ice
T1	1	Safety Line 3/8	220.00 -	0.6000	0.5573
			240.00		
T1	2	1 5/8	220.00 -	0.6000	0.5573
			240.00		
T1	3	1 5/8	220.00 -	0.6000	0.5573
			230.00		
T1	8	W/G LADDER RAIL*	220.00 -	0.6000	0.5573
	_		240.00		
T1	9	W/G LADDER RAIL*	220.00 -	0.6000	0.5573
			230.00	0 5000	0.5500
T2	1	Safety Line 3/8	200.00 -	0.6000	0.5502
TO	2	1.570	220.00	0.6000	0.5500
T2	2	1 5/8	200.00 -	0.6000	0.5502
T2	2	1.5/0	220.00	0.6000	0.5502
12	3	1 5/8	200.00 - 220.00	0.6000	0.5502
T2	1	1 5/8	200.00 -	0.6000	0.5502
12	4	1 3/8	220.00	0.6000	0.5502
T2	5	1 5/8	200.00 -	0.6000	0.5502
12	3	1 5/8	210.00	0.0000	0.5502
T2	8	W/G LADDER RAIL*	200.00 -	0.6000	0.5502
1 12	· ·	W/G E/IDDEK IGHE	220.00	0.0000	0.5502
T2	9	W/G LADDER RAIL*	200.00 -	0.6000	0.5502
			220.00	0.000	0.0002
T2	10	W/G LADDER RAIL*	200.00 -	0.6000	0.5502
			220.00		
T3	1	Safety Line 3/8	180.00 -	0.6000	0.6000
			200.00		
T3	2	1 5/8	180.00 -	0.6000	0.6000
			200.00		
T3	3	1 5/8	180.00 -	0.6000	0.6000
I			200.00		
T3	4	1 5/8	180.00 -	0.6000	0.6000
			200.00		

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	10 of 22
Project		Date
	Wax	11:37:13 05/01/19
Client	Discourse Calledon	Designed by
1	Bluegrass Cellular	WBH

Tower	Feed Line	Description	Feed Line	K_a	K_a
Section	Record No.		Segment Elev.	No Ice	Ice
T3	5	1 5/8	180.00 -	0.6000	0.6000
Т3	6	1 5/8	200.00 180.00 -	0.6000	0.6000
			200.00		
Т3	8	W/G LADDER RAIL*	180.00 -	0.6000	0.6000
T3	9	W/G LADDER RAIL*	200.00 180.00 -	0.6000	0.6000
15	,		200.00		
Т3	10	W/G LADDER RAIL*	180.00 -	0.6000	0.6000
T3	22	EW52	200.00 180.00 -	0.6000	0.6000
			190.00		
T4	1	Safety Line 3/8	160.00 -	0.6000	0.6000
T4	2	1 5/8	180.00 160.00 -	0.6000	0.6000
		100 27-34-563	180.00		
T4	3	1 5/8	160.00 -	0.6000	0.6000
T4	4	1 5/8	180.00 160.00 -	0.6000	0.6000
			180.00		
T4	5	1 5/8	160.00 - 180.00	0.6000	0.6000
T4	6	1 5/8	160.00 -	0.6000	0.6000
			180.00		
T4	8	W/G LADDER RAIL*	160.00 - 180.00	0.6000	0.6000
T4	9	W/G LADDER RAIL*	160.00 -	0.6000	0.6000
	10	W/G L L DDED D L W A	180.00	0.6000	0.6000
T4	10	W/G LADDER RAIL*	160.00 - 180.00	0.6000	0.6000
T4	22	EW52	160.00 -	0.6000	0.6000
TE	1	S-S-t-1:2/0	180.00	0.0000	0.0000
T5	1	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T5	2	1 5/8	140.00 -	0.6000	0.6000
T5	3	1 5/8	160.00 140.00 -	0.6000	0.6000
13	3	1 5/6	160.00	0.0000	0.0000
T5	4	1 5/8	140.00 -	0.6000	0.6000
T5	5	1 5/8	160.00 140.00 -	0.6000	0.6000
15	J	1 3/0	160.00	0.0000	0.0000
T5	6	1 5/8	140.00 -	0.6000	0.6000
T5	8	W/G LADDER RAIL*	160.00 140.00 -	0.6000	0.6000
			160.00		
T5	9	W/G LADDER RAIL*	140.00 -	0.6000	0.6000
T5	10	W/G LADDER RAIL*	160.00 140.00 -	0.6000	0.6000
			160.00		
T5	22	EW52	140.00 - 160.00	0.6000	0.6000
Т6	1	Safety Line 3/8	120.00 -	0.6000	0.6000
Tre			140.00		
Т6	2	1 5/8	120.00 - 140.00	0.6000	0.6000
Т6	3	1 5/8	120.00 -	0.6000	0.6000
Т6	4	1 5/0	140.00	0.6000	0.6000
10	4	1 5/8	120.00 - 140.00	0.0000	0.0000
Т6	5	1 5/8	120.00 -	0.6000	0.6000
	,		140.00	- 1	

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 11 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
Section T6	Recora No.	1 5/8	120.00 -	0.6000	0.6000
10	Ü	1 5/0	140.00	0.0000	0.0000
T6	8	W/G LADDER RAIL*	120.00 -	0.6000	0.6000
			140.00		
Т6	9	W/G LADDER RAIL*	120.00 -	0.6000	0.6000
T6	10	W/G LADDER RAIL*	140.00 120.00 -	0.6000	0.6000
10	10	W/G LADDER RAIL	140.00	0.0000	0.0000
Т6	22	EW52	120.00 -	0.6000	0.6000
			140.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
T7	1	Safety Line 3/8	100.00 -	0.6000	0.6000
779	2	1.5/0	120.00	0.6000	0.6000
T7	2	1 5/8	100.00 - 120.00	0.6000	0.6000
T7	3	1 5/8	100.00 -	0.6000	0.6000
1 1	,	1 3/0	120.00	0.0000	0.0000
T7	4	1 5/8	100.00 -	0.6000	0.6000
		is the second	120.00	17. Test Name	1021 - VANDO DE 10
T7	5	1 5/8	100.00 -	0.6000	0.6000
T7	6	1 5/8	120.00 100.00 -	0.6000	0.6000
17	0	1 3/8	120.00	0.0000	0.0000
T7	8	W/G LADDER RAIL*	100.00 -	0.6000	0.6000
			120.00	0.000	90.0000000
T7	9	W/G LADDER RAIL*	100.00 -	0.6000	0.6000
1			120.00		
T7	10	W/G LADDER RAIL*	100.00 -	0.6000	0.6000
T7	22	EW52	120.00 100.00 -	0.6000	0.6000
17	22	EW32	120.00	0.0000	0.0000
Т8	1	Safety Line 3/8		0.6000	0.6000
T8	2	1 5/8		0.6000	0.6000
Т8	3	1 5/8		0.6000	0.6000
T8	4	1 5/8		0.6000	0.6000
T8 T8	5	1 5/8 1 5/8	80.00 - 100.00 80.00 - 100.00	0.6000 0.6000	0.6000 0.6000
T8	8	W/G LADDER RAIL*	80.00 - 100.00	0.6000	0.6000
T8	9	W/G LADDER RAIL*	80.00 - 100.00	0.6000	0.6000
T8	10	W/G LADDER RAIL*	80.00 - 100.00	0.6000	0.6000
Т8	22	EW52	80.00 - 100.00	0.6000	0.6000
Т9	1	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T9	2	1 5/8	60.00 - 80.00	0.6000	0.6000
T9 T9	3 4	1 5/8 1 5/8	60.00 - 80.00	0.6000	0.6000
T9	5	1 5/8	60.00 - 80.00 60.00 - 80.00	0.6000 0.6000	0.6000 0.6000
T9	6	1 5/8	60.00 - 80.00	0.6000	0.6000
T9	8	W/G LADDER RAIL*	60.00 - 80.00	0.6000	0.6000
T9	9	W/G LADDER RAIL*	60.00 - 80.00	0.6000	0.6000
T9	10	W/G LADDER RAIL*	60.00 - 80.00	0.6000	0.6000
T9	22	EW52	60.00 - 80.00	0.6000	0.6000
T10	1	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T10 T10	2 3	1 5/8 1 5/8	40.00 - 60.00 40.00 - 60.00	0.6000 0.6000	0.6000 0.6000
T10	4	1 5/8	40.00 - 60.00	0.6000	0.6000
T10	5	1 5/8	40.00 - 60.00	0.6000	0.6000
T10	6	1 5/8	40.00 - 60.00	0.6000	0.6000
T10	8	W/G LADDER RAIL*	40.00 - 60.00	0.6000	0.6000
T10	9	W/G LADDER RAIL*	40.00 - 60.00	0.6000	0.6000
T10	10	W/G LADDER RAIL*	40.00 - 60.00	0.6000 0.6000	0.6000 0.6000
T10 T11	22 1	EW52 Safety Line 3/8	40.00 - 60.00 20.00 - 40.00	0.6000	0.6000
T11		1 5/8			
	-	1 5/0		2.0000	3.0000

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

T		Page
Job	240' WSST / Run Q19333	12 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Tower	Feed Line	Description	Feed Line	K_a	K_a
Section	Record No.		Segment Elev.	No Ice	Ice
T11	3	1 5/8	20.00 - 40.00	0.6000	0.6000
T11	4	1 5/8	20.00 - 40.00	0.6000	0.6000
T11	5	1 5/8	20.00 - 40.00	0.6000	0.6000
T11	6	1 5/8	20.00 - 40.00	0.6000	0.6000
T11	8	W/G LADDER RAIL*	20.00 - 40.00	0.6000	0.6000
T11	9	W/G LADDER RAIL*	20.00 - 40.00	0.6000	0.6000
T11	10	W/G LADDER RAIL*	20.00 - 40.00	0.6000	0.6000
T11	22	EW52	20.00 - 40.00	0.6000	0.6000
T12	1	Safety Line 3/8	5.00 - 20.00	0.6000	0.6000
T12	2	1 5/8	5.00 - 20.00	0.6000	0.6000
T12	3	1 5/8	5.00 - 20.00	0.6000	0.6000
T12	4	1 5/8	5.00 - 20.00	0.6000	0.6000
T12	5	1 5/8	5.00 - 20.00	0.6000	0.6000
T12	6	1 5/8	5.00 - 20.00	0.6000	0.6000
T12	8	W/G LADDER RAIL*	5.00 - 20.00	0.6000	0.6000
T12	9	W/G LADDER RAIL*	5.00 - 20.00	0.6000	0.6000
T12	10	W/G LADDER RAIL*	5.00 - 20.00	0.6000	0.6000
T12	22	EW52	5.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C_AA_A Front	$C_A A_A$ Side	Weight
			Vert ft	٥	ft		ft²	ft^2	K
			ft ft					,	
(2) 800 10965 w/Mount Pipe	A	From Leg	3.00	0.000	240.00	No Ice	13.94	7.85	0.15
(-)			0		2.0.00	1/2" Ice	14.51	8.91	0.25
			0			1" Ice	15.08	9.84	0.36
(2) 800 10965 w/Mount Pipe	В	From Leg	3.00	0.000	240.00	No Ice	13.94	7.85	0.15
(-)			0	0.000	2.0.00	1/2" Ice	14.51	8.91	0.25
			0			1" Ice	15.08	9.84	0.36
(2) 800 10965 w/Mount Pipe	C	From Leg	3.00	0.000	240.00	No Ice	13.94	7.85	0.15
,	-	riom Deg	0	0.000	210.00	1/2" Ice	14.51	8.91	0.15
			0			1" Ice	15.08	9.84	0.36
WD13X53 Antenna	Α	From Leg	1.50	0.000	240.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*		Trom Deg	0	0.000	210.00	1/2" Ice	10.42	5.70	1.60
()			0			1" Ice	13.56	7.51	2.11
WD13X53 Antenna	В	From Leg	1.50	0.000	240.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*		Trom Deg	0	0.000	210.00	1/2" Ice	10.42	5.70	1.60
()			0			1" Ice	13.56	7.51	2.11
WD13X53 Antenna	C	From Leg	1.50	0.000	240.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0	0.000	210.00	1/2" Ice	10.42	5.70	1.60
()			0			l" Ice	13.56	7.51	2.11
2) 800 10965 w/Mount Pipe	Α	From Leg	3.00	0.000	230.00	No Ice	13.94	7.85	0.15
,			0	0.000	250.00	1/2" Ice	14.51	8.91	0.25
			0			1" Ice	15.08	9.84	0.36
2) 800 10965 w/Mount Pipe	В	From Leg	3.00	0.000	230.00	No Ice	13.94	7.85	0.15
-,	_		0	0.000	250.00	1/2" Ice	14.51	8.91	0.15
			0			1" Ice	15.08	9.84	0.36
2) 800 10965 w/Mount Pipe	C	From Leg	3.00	0.000	230.00	No Ice	13.94	7.85	0.15
	-	2.2 2.08	0	0.000	223.00	1/2" Ice	14.51	8.91	0.15
			0			1" Ice	15.08	9.84	0.36

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 13 of 22
Project	240 W331 / Kull Q 19333	Date
Project	Wax	11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Description	Face or	Offset Type	Offsets: Horz	Azimuth Adjustment	Placement	4	C_AA_A Front	C_AA_A Side	Weight
	Leg	-5/2	Lateral Vert					,	
			ft	٥	ft		ft^2	ft^2	K
			ft ft						
WD13X53 Antenna	С	From Leg	1.50	0.000	230.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice 1" Ice	10.42 13.56	5.70	1.60
WD13X53 Antenna	В	From Leg	1.50	0.000	230.00	No Ice	7.20	7.51 3.88	2.11 1.18
Mounting Frame (w/ .75)*	Б	From Leg	0	0.000	230.00	1/2" Ice	10.42	5.70	1.60
Woulding Frame (w. 13)			0			1" Ice	13.56	7.51	2.11
WD13X53 Antenna	A	From Leg	1.50	0.000	230.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice	10.42	5.70	1.60
			0			1" Ice	13.56	7.51	2.11
(2) 800 10965 w/Mount Pipe	A	From Leg	3.00	0.000	220.00	No Ice	13.94	7.85	0.15
			0			1/2" Ice	14.51	8.91	0.25
(2) 900 10065 (M	D	Г	0	0.000	220.00	1" Ice	15.08	9.84	0.36
(2) 800 10965 w/Mount Pipe	В	From Leg	3.00	0.000	220.00	No Ice 1/2" Ice	13.94 14.51	7.85	0.15
			0			1" Ice	15.08	8.91 9.84	0.25 0.36
(2) 800 10965 w/Mount Pipe	C	From Leg	3.00	0.000	220.00	No Ice	13.94	7.85	0.36
(2) 000 10703 W/Would Tipe		Trom Leg	0	0.000	220.00	1/2" Ice	14.51	8.91	0.15
			0			1" Ice	15.08	9.84	0.36
WD13X53 Antenna	C	From Leg	1.50	0.000	220.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice	10.42	5.70	1.60
			0			1" Ice	13.56	7.51	2.11
WD13X53 Antenna	В	From Leg	1.50	0.000	220.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice	10.42	5.70	1.60
WD12W52 4		г. т	0	0.000	220.00	1" Ice	13.56	7.51	2.11
WD13X53 Antenna	A	From Leg	1.50	0.000	220.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice 1" Ice	10.42 13.56	5.70 7.51	1.60 2.11
(2) 800 10965 w/Mount Pipe	A	From Leg	3.00	0.000	210.00	No Ice	13.94	7.85	0.15
(2) ooo rosos wirioditi ripe	21	Trom Leg	0	0.000	210.00	1/2" Ice	14.51	8.91	0.15
			0			1" Ice	15.08	9.84	0.36
(2) 800 10965 w/Mount Pipe	В	From Leg	3.00	0.000	210.00	No Ice	13.94	7.85	0.15
•			0			1/2" Ice	14.51	8.91	0.25
			0			1" Ice	15.08	9.84	0.36
(2) 800 10965 w/Mount Pipe	C	From Leg	3.00	0.000	210.00	No Ice	13.94	7.85	0.15
			0			1/2" Ice	14.51	8.91	0.25
WD12V52 A-4	0	Г	0	0.000	210.00	1" Ice	15.08	9.84	0.36
WD13X53 Antenna	C	From Leg	1.50	0.000	210.00	No Ice 1/2" Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1" Ice	10.42 13.56	5.70 7.51	1.60 2.11
WD13X53 Antenna	В	From Leg	1.50	0.000	210.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*	В	Trom Leg	0	0.000	210.00	1/2" Ice	10.42	5.70	1.60
			0			1" Ice	13.56	7.51	2.11
WD13X53 Antenna	A	From Leg	1.50	0.000	210.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice	10.42	5.70	1.60
			0			1" Ice	13.56	7.51	2.11
(2) 800 10965 w/Mount Pipe	A	From Leg	3.00	0.000	200.00	No Ice	13.94	7.85	0.15
			0			1/2" Ice	14.51	8.91	0.25
(2) 800 10965 w/Mount Pipe	P	Enoug I	0	0.000	200.00	1" Ice	15.08	9.84	0.36
(2) 600 10905 W/Mount Pipe	В	From Leg	3.00	0.000	200.00	No Ice	13.94	7.85	0.15
			0			1/2" Ice 1" Ice	14.51 15.08	8.91 9.84	0.25 0.36
(2) 800 10965 w/Mount Pipe	C	From Leg	3.00	0.000	200.00	No Ice	13.08	7.85	0.36
(=) soo rosoo windowich ipe		. Tom Log	0	0.000	200.00	1/2" Ice	14.51	8.91	0.13
			0			1" Ice	15.08	9.84	0.23
WD13X53 Antenna	C	From Leg	1.50	0.000	200.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*		9	0	20053		1/2" Ice	10.42	5.70	1.60
			0			1" Ice	13.56	7.51	2.11

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	14 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	$C_A A_A$ Side	Weigh
			Vert ft ft	٥	ft		ft²	ft²	K
WD13X53 Antenna	В	From Leg	1.50	0.000	200.00	No Ice	7.20	3.88	1.18
Mounting Frame (w/ .75)*			0			1/2" Ice 1" Ice	10.42 13.56	5.70 7.51	1.60 2.11
WD13X53 Antenna Mounting Frame (w/ .75)*	A	From Leg	1.50	0.000	200.00	No Ice 1/2" Ice	7.20 10.42	3.88 5.70	1.18
			0			1" Ice	13.56	7.51	2.11
4.5"x7' Pipe Mount	С	From Leg	0.50	0.000	190.00	No Ice 1/2" Ice 1" Ice	2.01 3.21 3.64	2.01 3.21 3.64	0.02 0.04 0.07

Dishes											
Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weight
				ft	0	0	ft	ft		ft^2	K
HPD6-5.9	C	Paraboloid	From	1.00	0.000		190.00	6.00	No Ice	26.73	0.25
		w/Shroud (HP)	Leg	0					1/2" Ice	27.49	0.39
				0					1" Ice	28.26	0.53

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of	Maximum Load	Allowable Load	Ratio Load	Allowable Ratio	Criteria
	ft	2782	J	in	Bolts	per Bolt K	per Bolt K	Allowable	114110	
T1	240	Leg	A325X	0.75	4	5.34	29.82	0.179	1	Bolt Tension
T2	220	Leg	A325X	0.75	4	13.08	29.82	0.439	1	Bolt Tension
		Diagonal	A325X	0.63	1	4.25	8.89	0.478	1	Member Block Shear
		Top Girt	A325X	0.63	1	1.29	5.93	0.218	1	Member Block

Bolt Design Data

T2	220	Leg	A325X	0.75	4	13.08	29.82	0.439	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	4.25	8.89	0.478	1	1	Member Block Shear
		Top Girt	A325X	0.63	1	1.29	5.93	0.218	1	1	Member Block Shear
T3	200	Leg	A325X	1.00	4	23.67	53.01	0.446	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	5.45	10.93	0.498	1	1	Member Block Shear
T4	180	Leg	A325X	1.00	4	33.67	53.01	0.635	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	5.59	10.93	0.511		1	Member Block Shear
T5	160	Leg	A325X	1.00	4	41.71	53.01	0.787	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	7.42	11.09	0.669		1	Member Bearing
		Horizontal	A325X	0.63	1	4.21	8.89	0.474		1	Member Block Shear
Т6	140	Leg	A325X	1.00	6	33.67	53.01	0.635	1	1	Bolt Tension

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	15 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Rat Loc Allow	ıd	Allowable Ratio	Criteria
		Diagonal	A325X	0.63	1	7.44	11.09	0.671	V	1	Member Bearing
		Horizontal	A325X	0.63	1	4.78	8.89	0.537	V	1	Member Block Shear
T7	120	Leg	A325X	1.00	6	39.26	53.01	0.740	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	8.21	15.19	0.540	1	1	Bolt Shear
		Horizontal	A325X	0.63	1	5.27	10.93	0.482	1	1	Member Block Shear
T8	100	Leg	A325X	1.00	6	44.67	53.01	0.843	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	8.82	15.19	0.581	V	1	Bolt Shear
		Horizontal	A325X	0.63	1	5.72	10.93	0.523	1	1	Member Block Shear
T9	80	Leg	A325X>1'	1.25	6	49.96	72.51	0.689	1	1	Bolt Tension
		Diagonal	A325X	0.63	1	9.51	15.19	0.626	V	1	Bolt Shear
		Horizontal	A325X	0.63	1	6.41	11.09	0.577	1	1	Member Bearing
T10	60	Leg	A325X>1'	1.25	6	53.98	72.51	0.745	1	1	Bolt Tension
		Diagonal	A325X	0.75	1	6.63	17.84	0.372	V	1	Member Bearing
		Horizontal	A325X	0.75	1	6.68	13.38	0.499	V	1	Member Bearing
T11	40	Leg	A325X>1'	1.25	6	57.42	72.51	0.792	1	1	Bolt Tension
		Diagonal	A325X	0.75	1	6.94	17.84	0.389	V	1	Member Bearing
		Horizontal	A325X	0.75	1	7.15	17.84	0.401	1	1	Member Bearing
T12	20	Leg	F1554-10	1.25	6	60.76	86.29	0.704	1	1	Bolt Tension
		Diagonal	A325X	0.75	1	7.12	17.84	0.399	V	1	Member Bearing
		Horizontal	A325X	0.75	1	7.61	17.84	0.427	1	1	Member Bearing

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio
IVO.	ft		ft	ft		in^2	K	K	$\frac{P_u}{\phi P_n}$
T1	240 - 220	1 1/2	20.00	3.21	102.7 K=1.00	1.77	-25.64	36.79	0.697
T2	220 - 200	2 1/4	20.02	5.00	106.8 K=1.00	3.98	-68.33	77.75	0.879 1
Т3	200 - 180	2 3/4	20.02	5.00	87.4 K=1.00	5.94	-117.70	152.99	0.769 1
T4	180 - 160	3	20.02	5.00	80.1 K=1.00	7.07	-162.40	199.04	0.816 1
T5	160 - 140	3	20.02	5.00	80.1	7.07	-198.81	199.04	0.999

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	16 of 22
Project		Date
	Wax	11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P_u
	ft		ft	ft		in^2	K	K	ϕP_n
					K=1.00				V
T6	140 - 120	3 1/4	20.02	5.00	73.9 K=1.00	8.30	-238.63	250.37	0.953
T7	120 - 100	3 1/2	20.02	5.00	68.6 K=1.00	9.62	-277.53	306.80	0.905
T8	100 - 80	3 3/4	20.02	5.00	64.1 K=1.00	11.04	-315.82	368.18	0.858
T9	80 - 60	3 3/4	20.02	5.00	64.1 K=1.00	11.04	-353.62	368.18	0.960
T10	60 - 40	4	20.03	5.01	60.1 K=1.00	12.57	-384.67	434.24	0.886
T11	40 - 20	4	20.03	5.01	60.1 K=1.00	12.57	-411.93	434.24	0.949
T12	20 - 0	4 1/4	20.03	5.01	56.6 K=1.00	14.19	-438.92	505.22	0.869

¹ P_u / ϕP_n controls

Diagonal	Design	Data (C	ompr	ession)
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Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in²	P_u K	ϕP_n K	$\frac{Ratio}{P_u}$ ϕP_n
T2	220 - 200	L2x2x3/16	7.03	3.37	107.0 K=1.04	0.71	-4.45	12.67	0.351 1
Т3	200 - 180	L2 1/2x2 1/2x3/16	8.45	4.05	103.7 K=1.06	0.90	-5.53	16.59	0.333 1
T4	180 - 160	L2 1/2x2 1/2x3/16	9.70	4.67	114.9 K=1.02	0.90	-5.53	14.59	0.379 1
T5	160 - 140	L3x3x3/16	7.07	6.60	133.0 K=1.00	1.09	-7.37	13.88	0.531 1
T6	140 - 120	L3x3x3/16	7.62	7.15	143.9 K=1.00	1.09	-7.68	11.88	0.647 1
T7	120 - 100	L3x3x1/4	8.20	7.73	156.6 K=1.00	1.44	-8.21	13.27	0.619 1
T8	100 - 80	L3x3x1/4	8.81	8.33	168.8 K=1.00	1.44	-8.82	11.42	0.773 1
Т9	80 - 60	L3x3x1/4	9.43	8.96	181.6 K=1.00	1.44	-9.51	9.86	0.964 1
T10	60 - 40	L3 1/2x3 1/2x1/4	10.30	9.77	169.0 K=1.00	1.69	-6.82	13.37	0.510 1
T11	40 - 20	L3 1/2x3 1/2x1/4	11.18	10.66	184.4 K=1.00	1.69	-7.54	11.23	0.672
T12	20 - 0	L3 1/2x3 1/2x1/4	12.08	11.56	199.8 K=1.00	1.69	-8.09	. 9.56	0.846 1

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 17 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Horizontal	Design	Data ((Compression))
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Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P_u
	ft		ft	ft		in^2	K	K	ϕP_n
T1	240 - 220	1	4.00	3.88	130.2 K=0.70	0.79	-0.95	10.42	0.091
T5	160 - 140	L2x2x3/16	9.63	4.54	138.3 K=1.00	0.71	-4.21	8.44	0.499
T6	140 - 120	L2x2x3/16	11.13	5.28	160.9 K=1.00	0.71	-4.78	6.24	0.765
T7	120 - 100	L2 1/2x2 1/2x3/16	12.63	6.02	146.0 K=1.00	0.90	-5.27	9.56	0.551
T8	100 - 80	L2 1/2x2 1/2x3/16	14.13	6.76	163.9 K=1.00	0.90	-5.72	7.59	0.754
T9	80 - 60	L3x3x3/16	15.63	7.51	151.2 K=1.00	1.09	-6.41	10.77	0.595
T10	60 - 40	L3x3x3/16	17.50	8.42	169.5 K=1.00	1.09	-6.68	8.57	0.779
T11	40 - 20	L3x3x1/4	19.50	9.42	190.9 K=1.00	1.44	-7.15	8.93	0.801
T12	20 - 0	L3 1/2x3 1/2x1/4	21.50	10.41	179.9 K=1.00	1.69	-7.61	11.79	0.645

¹ P_u / ϕP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P.,
	ft		ft	ft		in^2	K	K	ϕP_n
T1	240 - 220	1	2.00	1.94	83.9 K=0.90	0.79	-0.00	17.56	0.000 1

¹ P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u
ft	ft		ft	ft		in ²	K	K	ϕP_n
T1	240 - 220	1 1/8	4.00	3.88	115.7 K=0.70	0.99	-1.15	15.91	0.072 1
T2	220 - 200	L2x2x1/8	4.00	3.58	114.1 K=1.05	0.48	-1.46	7.82	0.187 1

¹ P_u / ϕP_n controls

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 18 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

 $^{^{1}}$ P_{u} / ϕP_{n} controls

	Bottom Girt Design Data (Compression)									
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio	
	ft		ft	ft		in^2	K	K	ΦP_n	
T1	240 - 220	1	4.00	3.88	130.2 K=0.70	0.79	-1.89	10.42	0.181	

 $^{^{1}}$ P_{u} / ϕP_{n} controls

Tension Checks

	Leg Design Data (Tension)										
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u		
	ft		ft	ft		in^2	K	K	$\frac{1}{\Phi P_n}$		
T1	240 - 220	1 1/2	20.00	0.38	12.0	1.77	21.35	79.52	0.268		
T2	220 - 200	2 1/4	20.02	5.00	106.8	3.98	52.33	178.92	0.292		
Т3	200 - 180	2 3/4	20.02	5.00	87.4	5.94	94.67	267.28	0.354		
T4	180 - 160	3	20.02	5.00	80.1	7.07	134.68	318.09	0.423		
T5	160 - 140	3	20.02	5.00	80.1	7.07	166.99	318.09	0.525		
T6	140 - 120	3 1/4	20.02	5.00	73.9	8.30	202.17	373.31	0.542		
T7	120 - 100	3 1/2	20.02	5.00	68.6	9.62	235.73	432.95	0.544		
T8	100 - 80	3 3/4	20.02	5.00	64.1	11.04	268.26	497.01	0.540		
T9	80 - 60	3 3/4	20.02	5.00	64.1	11.04	299.98	497.01	0.604		
T10	60 - 40	4	20.03	5.01	60.1	12.57	324.18	565.49	0.573		
T11	40 - 20	4	20.03	5.01	60.1	12.57	344.79	565.49	0.610		
T12	20 - 0	4 1/4	20.03	5.01	56.6	14.19	364.88	638.38	0.572		

¹ P_u / ϕP_n controls

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	, <u>, , , , , , , , , , , , , , , , , , </u>	Page
	240' WSST / Run Q19333	19 of 22
Project		Date
	Wax	11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

0.197

0.208 1

0.145 1

1

0.148

40.86

40.86

48.00

48.00

48.00

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P_u
ft			ft	ft		in^2	K	K	ϕP_n
T1	240 - 220	1	5.13	4.97	238.4	0.79	5.32	25.45	0.209 1
T2	220 - 200	L2x2x3/16	7.03	3.37	68.4	0.43	4.25	18.74	0.227
T3	200 - 180	L2 1/2x2 1/2x3/16	8.15	3.91	62.5	0.57	5.45	24.84	0.219 1
T4	180 - 160	L2 1/2x2 1/2x3/16	9.70	4.67	74.3	0.57	5.59	24.84	0.225 1
T5	160 - 140	L3x3x3/16	6.81	6.34	84.8	0.71	7.42	30.97	0.239 1
T6	140 - 120	L3x3x3/16	7.34	6.87	91.5	0.71	7.44	30.97	0.240 1
T7	120 - 100	L3x3x1/4	7.91	7.43	99.7	0.94	7.71	40.86	0.189 1

8.33

8.96

9.34

10.22

11.10

111.2

119.4

106.5

116.1

125.9

0.94

0.94

1.10

1.10

1.10

8.06

8.51

6.63

6.94

7.12

8.81

9.43

9.86

10.74

11.63

Diagonal Design Data (Tension)

T8

T9

T10

T11

T12

100 - 80

80 - 60

60 - 40

40 - 20

20 - 0

L3x3x1/4

L3x3x1/4

L3 1/2x3 1/2x1/4

L3 1/2x3 1/2x1/4

L3 1/2x3 1/2x1/4

Horizo	ntal	Design	Data	(Tension	١
1101120	IILAI	Design	Data	(161131011	,

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P_u
	ft		ft	ft		in^2	K	K	ϕP_n
T1	240 - 220	1	4.00	3.88	186.0	0.79	0.97	25.45	0.038 1
T5	160 - 140	L2x2x3/16	9.63	4.54	136.8	0.43	4.21	18.74	0.225 1
T6	140 - 120	L2x2x3/16	11.13	5.28	158.3	0.43	4.78	18.74	0.255 1
T7	120 - 100	L2 1/2x2 1/2x3/16	12.63	6.02	142.7	0.57	5.27	24.84	0.212 1
T8	100 - 80	L2 1/2x2 1/2x3/16	14.13	6.76	159.8	0.57	5.72	24.84	0.230 1
T9	80 - 60	L3x3x3/16	15.63	7.51	146.8	0.71	6.41	30.97	0.207 1
T10	60 - 40	L3x3x3/16	17.50	8.42	164.5	0.69	6.68	30.21	0.221 1

¹ P_u / ϕP_n controls

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job		Page
	240' WSST / Run Q19333	20 of 22
Project		Date
	Wax	11:37:13 05/01/19
Client		Designed by
	Bluegrass Cellular	WBH

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	K	K	ϕP_n
T11	40 - 20	L3x3x1/4	19.50	9.42	185.5	0.92	7.15	39.84	0.179 1
T12	20 - 0	L3 1/2x3 1/2x1/4	21.50	10.41	174.6	1.10	7.61	48.00	0.159

¹ P_u / ϕP_n controls

Secondary Horizontal Design Data (Tension)									
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in^2	K	K	$\frac{1}{\Phi P_n}$
T1	240 - 220	1	2.00	1.94	93.0	0.79	0.00	25.45	0.000 1

 $^{^{1}} P_{u} / \phi P_{n}$ controls

Top Girt Design Data (Tension)									
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in^2	K	K	ϕP_n
T1	240 - 220	1 1/8	4.00	3.88	165.3	0.99	1.15	32.21	0.036
T2	220 - 200	L2x2x1/8	4.00	3.58	74.3	0.29	1.29	12.74	0.101

¹ P_u / ϕP_n controls

Bottom Girt Design Data (Tension)									
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P.,
	ft		ft	ft		in ²	K	K	$\frac{-1}{\phi P_n}$
Tl	240 - 220	1	4.00	3.88	186.0	0.79	2.00	25.45	0.079 1

¹ P_u / ϕP_n controls

Section Capacity Table

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 21 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$ otagP_{allow} $ $ K $	% Capacity	Pass Fail
T1	240 - 220		1 1/2	1	-25.64	36.79	69.7	Pass
T2	220 - 200	Leg Leg	2 1/4	50	-68.33	77.75	87.9	Pass
T3	200 - 180		2 3/4	80	-117.70	152.99	76.9	Pass
T4		Leg		107	-162.40	199.04	81.6	
	180 - 160	Leg	3	134		199.04	99.9	Pass
T5	160 - 140	Leg			-198.81			Pass
T6	140 - 120	Leg	3 1/4	167	-238.63	250.37	95.3	Pass
T7	120 - 100	Leg	3 1/2	200	-277.53	306.80	90.5	Pass
T8	100 - 80	Leg	3 3/4	233	-315.82	368.18	85.8	Pass
T9	80 - 60	Leg	3 3/4	266	-353.62	368.18	96.0	Pass
T10	60 - 40	Leg	4	299	-384.67	434.24	88.6	Pass
T11	40 - 20	Leg	4	332	-411.93	434.24	94.9	Pass
T12	20 - 0	Leg	4 1/4	365	-438.92	505.22	86.9	Pass
T1	240 - 220	Diagonal	1	12	-5.37	6.37	84.3	Pass
T2	220 - 200	Diagonal	L2x2x3/16	66	-4.45	12.67	35.1 47.8 (b)	Pass
T3	200 - 180	Diagonal	L2 1/2x2 1/2x3/16	86	-5.53	16.59	33.3 49.8 (b)	Pass
T4	180 - 160	Diagonal	L2 1/2x2 1/2x3/16	113	-5.53	14.59	37.9 51.1 (b)	Pass
T5	160 - 140	Diagonal	L3x3x3/16	143	-7.37	13.88	53.1 66.9 (b)	Pass
T6	140 - 120	Diagonal	L3x3x3/16	177	-7.68	11.88	64.7 67.1 (b)	Pass
T7	120 - 100	Diagonal	I 2×2×1/4	210	-8.21	13.27	61.9	Dogg
T8	100 - 80		L3x3x1/4	243	-8.82		77.3	Pass
T9		Diagonal	L3x3x1/4			11.42		Pass
	80 - 60	Diagonal	L3x3x1/4	276	-9.51	9.86	96.4	Pass
T10	60 - 40	Diagonal	L3 1/2x3 1/2x1/4	309	-6.82	13.37	51.0	Pass
T11	40 - 20	Diagonal	L3 1/2x3 1/2x1/4	342	-7.54	11.23	67.2	Pass
T12	20 - 0	Diagonal	L3 1/2x3 1/2x1/4	375	-8.09	9.56	84.6	Pass
T1	240 - 220	Horizontal	1	30	-0.95	10.42	9.1	Pass
T5	160 - 140	Horizontal	L2x2x3/16	136	-4.21	8.44	49.9	Pass
T6	140 - 120	Horizontal	L2x2x3/16	169	-4.78	6.24	76.5	Pass
T7	120 - 100	Horizontal	L2 1/2x2 1/2x3/16	202	-5.27	9.56	55.1	Pass
T8	100 - 80	Horizontal	L2 1/2x2 1/2x3/16	235	-5.72	7.59	75.4	Pass
T9	80 - 60	Horizontal	L3x3x3/16	268	-6.41	10.77	59.5	Pass
T10	60 - 40	Horizontal	L3x3x3/16	301	-6.68	8.57	77.9	Pass
T11	40 - 20	Horizontal	L3x3x1/4	334	-7.15	8.93	80.1	Pass
T12	20 - 0	Horizontal	L3 1/2x3 1/2x1/4	370	-7.61	11.79	64.5	Pass
T1	240 - 220	Secondary Horizontal	1	20	-0.00	17.56	0.1	Pass
T1	240 - 220	Top Girt	1 1/8	5	-1.15	15.91	7.2	Pass
T2	220 - 200	Top Girt	L2x2x1/8	54	-1.46	7.82	18.7 21.8 (b)	Pass
T1	240 - 220	Bottom Girt	1	8	-1.89	10.42	18.1 Summary	Pass
						Leg (T5)	99.9	Pass
						Diagonal (T9)	96.4	Pass
						Horizontal (T11)	80.1	Pass
						Secondary Horizontal (T1)	0.1	Pass
						Top Girt (T2)	21.8	Pass
						Bottom Girt (T1)	18.1	Pass
						Bolt Checks RATING =	84.3 99.9	Pass Pass

World Tower Company 1213 Compressor Drive Mayfield, KY Phone: (270) 247-3642 FAX:

Job	240' WSST / Run Q19333	Page 22 of 22
Project	Wax	Date 11:37:13 05/01/19
Client	Bluegrass Cellular	Designed by WBH

 $Program\ Version\ 8.0.5.0\ -\ 11/28/2018\ File: G:/World\ Tower/2019/KY/Q19333\ Wax/Analysis/Q19333.eri$



Proposed Bluegrass Cellular Tower at Wax, KY
Clarkson, Grayson County, KY
February 20, 2019
Terracon Project No. 57185152

Prepared for:

Bluegrass Cellular, Inc. Elizabethtown, Kentucky

Prepared by:

Terracon Consultants, Inc. Louisville, Kentucky

Environmental Facilities Geotechnical Materials

February 20, 2019

Bluegrass Cellular, Inc. 2902 Ring Road Elizabethtown, Kentucky 42701



Attn:

Mr. Tim Ash

P:

(270) 765-6361

F:

tash@bluegrasscellular.com

Re:

Geotechnical Engineering Report

Proposed Bluegrass Cellular Tower at Wax, KY

12523 Peonia Road

Clarkson, Grayson County, KY Terracon Project No. 57185152

Dear Mr. Ash:

Terracon Consultants, Inc. (Terracon) has completed the Geotechnical Engineering Services for the proposed 240-foot self-support tower at Wax, KY. The purpose of this report is to provide geotechnical recommendations for foundation design and earthwork considerations. This study was performed in general accordance with Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular Purchase Order PO-6914 dated November 30, 2018.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely.

Terracon Consultants, Inc.

Yibo Zhang, Ph.D., EIT

Thomas Tibo

Staff Engineer

Reviewed by Jenny Guest - Project Manager

SEAL 037737 Benjamin Wayjor P. Senior Associate Chine Manager

Terracon Consultants, Inc. 13050 Eastgate Park Way Ste 101 Louisville, KY 40223-3915
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REPORT TOPICS

INTRODUCTION	. 1
SITE CONDITIONS	. 1
PROJECT DESCRIPTION	. 2
GEOTECHNICAL CHARACTERIZATION	. 4
GEOTECHNICAL OVERVIEW	. 6
EARTHWORK	. 7
SHALLOW FOUNDATIONS 1	12
DEEP FOUNDATIONS 1	14
SEISMIC CONSIDERATIONS	17
FLOOR SLABS1	17
GENERAL COMMENTS	19
FIGURES	20

Note: This report was originally delivered in a web-based format. For more interactive features, please view your project online at <u>client.terracon.com</u>.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES PHOTOGRAPHY LOG SITE LOCATION AND EXPLORATION PLANS EXPLORATION RESULTS SUPPORTING INFORMATION

Note: Refer to each individual Attachment for a listing of contents.

Proposed Bluegrass Cellular Tower at Wax, KY 12523 Peonia Road

Clarkson, Grayson County, KY Terracon Project No. 57185152 February 20, 2019

INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed 240-foot self-support tower to be located at 12523 Peonia Road in Clarkson, Grayson County, KY, The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil (and rock) conditions
- Groundwater conditions
- Site preparation and earthwork
- Foundation design and construction
- Floor slab design and construction
- Seismic site classification per IBC

The geotechnical engineering Scope of Services for this project included the advancement of one test boring to a depth of 25 feet below existing site grades.

Maps showing the site and boring location are shown in the Site Location and Exploration Plan sections, respectively. The results of the laboratory testing performed on soil/rock samples obtained from the site during the field exploration are included on the boring log and/or as separate graphs in the Exploration Results section.

SITE CONDITIONS

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

Item	Description
Parcel Information	We have reviewed the information provided by Bluegrass, which included Site Candidate Information and Site Sketch prepared by Landmark Surveying Co., Inc. dated November 19, 2018. Based on review of publicly available aerial map and the information provided to us, the project is located off of Peonia Road in Clarkson, Grayson County, Kentucky. Approximate Latitude/ Longitude: 37.361583°, -86.139444° (tower center) See Site Location

Proposed Bluegrass Cellular Tower at Wax, KY ■ Clarkson, Grayson County, KY February 20, 2019 ■ Terracon Project No. 57185152



Item	Description
Existing Improvements	The project site for the proposed tower is located at an open grassy area next to a residential home. The site is approximately 420 feet south of Peonia Road, and approximately 300 feet west of Lush Cemetery Road.
Current Ground Cover	Based on review of publicly available aerial map, the area adjacent to the proposed tower is grass covered.
Based on review of USGS publicly available existing topographic of the site is generally flat (less than 5H:1V) at grass-covered are downslopes at a grade of 4H:1V to 2H:1V beyond tree lines to the weast. Based on the information provided by Landmark Surveying (dated November 19, 2018), the ground surface elevation at the tower is about 890 feet. We have considered this survey elevation in our bo	
Geology	Based on available Kentucky Geological Survey, the project site is mapped within the Tradewater and Caseyville Formations of Lower to Middle Pennsylvanian age deposits.

PROJECT DESCRIPTION

Our initial understanding of the project was discussed during project planning. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

Item	Description
Proposed Structures	A new 240-foot-tall self-support tower using deep/shallow foundation is planned at the subject property. An equipment shelter using shallow foundation may be constructed for equipment support.
240-foot Self-Support Tower: Maximum Loads	The following loading conditions are anticipated at each tower leg. Vertical: 600 kips (to be confirmed) Shear: 80 kips (to be confirmed) Uplift: 500 kips (to be confirmed) These anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable.

Proposed Bluegrass Cellular Tower at Wax, KY ■ Clarkson, Grayson County, KY February 20, 2019 ■ Terracon Project No. 57185152



Item	Description
Equipment Building:	The following loading conditions are anticipated for the equipment building Column: 34 kips (to be confirmed) Wall: 1.5 kips/ft (to be confirmed)
Maximum loads	These anticipated loads that are shown are based on experience with similar projects. Loads should be confirmed by the project structura engineer. If loading conditions vary from those stated above, Terracor should be provided with actual loading for review.
Maximum allowable settlement	The following tolerable settlements are anticipated for the proposed structures: 240-ft Self-Support Tower Total: 1.5-inch (to be confirmed) Equipment Building Total: 1-inch (to be confirmed) Differential: ¾ inch over 40 feet (to be confirmed)
	These anticipated tolerable settlements are based on experience with similar projects. If tolerable settlements vary from those stated above Terracon should be contacted for review.
Grading/Slopes	Please see the Site Conditions for additional details regarding the existing site topography. Site grading plans were not provided at the time of this report. For the purposes of this report, we anticipate up to 3 feet of cuts and fills may be required. Terracon should be retained to review the topographic plan and grading plan upon availability relative to the recommendations contained in this report. We anticipate that any cut/fill slopes will be flatter than 3H:1V.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



GEOTECHNICAL CHARACTERIZATION

Regional Geology

Formation	Description		
	Primary Lithology: shale, siltstone, sandstone, and coal		
	Interbedded shale, siltstone, sandstone, and coal. Shale and siltstone, white to yellowish-gray; weather brown to light olive gray and medium dark gray; laminated to very thin bedded. Sandstone white where fresh, iron-stained brown and moderate reddish brown very fine to medium grained; very thin to thick bedded. Coal, thin and of only local occurrence.		
	Upper sandstone:		
	Sandstone, white to light-gray, iron-stained brown and pink, very fine to coarse-grained, slightly asphaltic locally; contains rounded quartipebbles and granules; thin to thick bedded, locally crossbedded.		
Fradewater and Caseyville Formations of Lower to Middle Pennsylvanian Age ¹	Lower fine-grained interval: shale, sandstone, siltstone, and coal Shale, medium-gray, dark-gray; weathers yellowish orange; grade into, and interfingers with, sandstone of overlying unit. Coal present in four beds.		
	Lower sandstone: sandstone, conglomerate, shale, and coal Sandstone and conglomerate, white where fresh, iron-stained yellowish orange to moderate red and moderate reddish brown, very thin to very thick bedded, in part crossbedded. Sandstone weathers dark gray to medium gray where locally asphaltic. Conglomerate consists of beds, stringers, and lenses of well-rounded granules and pebbles of clear to milky quartz, commonly frosted and iron-stained in a matrix of quartz sand and pebbles; grades into sandstone Shale, medium light-gray, weathers yellowish orange, light gray, and reddish gray, commonly sandy; plates of selenite and small nodules of pyrite in exposure. Coal, thin and of only local occurrence.		

 Based on the Geologic map of the Nolin Reservoir quadrangle, western Kentucky published by U.S. Geological Survey (Quadrangle GQ-895).

The Tradewater and Caseyville Formations are reported to have a low to non-karst potential (e.g. may exhibit mature karst features, including sinkholes, springs, caves, or other solution features). It should be noted that, high karst potential areas were mapped about half a mile southwest to the

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



project site. Published karst potential maps prepared by the Kentucky Geological Survey do not indicate any sinkholes mapped within 1-mile radius. No indications of karst activities were observed during our limited subsurface exploration.

GeoModel - Subsurface Profile

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical calculations and evaluation of site preparation and foundation options. Conditions encountered at each exploration point are indicated on the individual log. The individual log can be found in the Exploration Results section and the GeoModel can be found in the Figures section of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at the boring location, refer to the GeoModel.

Model Layer	Layer Name	General Description	
1	Topsoil	Topsoil	
2	Lean Clay Yellowish brown to reddish brown lean clay, trace sand		
3	Sandstone	andstone Gray sandstone with water staining, weak to strong	

Auger refusal was encountered at a depth of approximately 10 feet below existing grade at boring B-1 and the boring was extended using rock coring techniques (NQ-II) to a depth of about 25 feet below existing grade. Auger refusal is defined as the depth below the ground surface at which a test boring can no longer be advanced with the soil drilling technique being used. Auger refusal can result on slabs of unweathered sandstone suspended in the residual soil matrix ("floaters") or on bedrock.

Competent sandstone bedrock was encountered at about 21 feet below existing grade with sample recovery of 100 percent. The rock quality of the core obtained is considered to be excellent with RQD value of 95 percent.

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Further details of the boring can be found on the boring log in the Appendix of this report. Photographs of the rock core samples can be observed in the Rock Core Photography Log.

Groundwater Conditions

The borehole was observed while drilling for the presence and level of groundwater. No groundwater was observed in the boring for the short duration that the borehole was open. Due to

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



the low permeability of the soils encountered in the borings, a relatively long period of time may be necessary for a groundwater level to develop and stabilize in a borehole in these materials. Long-term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type. As water was introduced into the borehole for the coring operation, the groundwater table could be present within the depth of our boring.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the level at the time of our exploration. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project. In particular, this project has potential for trapped/perched water at the overburden/bedrock interface.

GEOTECHNICAL OVERVIEW

The following sections describe pertinent geotechnical considerations identified by the exploration and laboratory testing. Site preparation recommendations, including subgrade improvement, fill placement, and excavations are provided in the Site Preparation section.

Shaft Excavation Caving Considerations

Although groundwater was not observed during the short period of drilling and long-term monitoring of groundwater was not a part of this scope of work, groundwater could be encountered during the drilling for the drilled pier. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction.

Due to the possible presence of groundwater, the contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered. The need for casing should be anticipated throughout the length of the drilled pier installation depth. The casing should be carefully extracted from the drilled pier excavation following concrete placement.

Proposed Bluegrass Cellular Tower at Wax, KY ■ Clarkson, Grayson County, KY February 20, 2019 ■ Terracon Project No. 57185152



Foundation Support

The tower or equipment structure can be supported by shallow foundations dimensioned for a net allowable soil bearing pressure of **2,750 psf**, bearing at or below frost depth of **24 inches** below surrounding grade. Shallow foundations should bear on undisturbed, at least **stiff** native cohesive soils or engineered fill or lean concrete placed directly on at least **stiff** native cohesive soils.

Design parameters for deep foundations have also been provided. Competent sandstone bedrock was encountered at a depth of **21** feet below existing grade. We were not provided with the information of shaft diameter, we are specifying a minimum shaft diameter of 30 inches. Minimum socket length should be the larger value of 1.5 times the shaft diameter (for the allowable end bearing to apply) and being able to provide sufficient side friction (to support the structural load). Therefore, to mobilize the strength parameters recommended in the **Foundations** section of our report, the pier should be embedded a minimum of 4 feet into competent bedrock (a minimum socket length of 4 feet) and should be tipped at a minimum depth of about **25** feet below existing grade.

Inspection of the bearing conditions should be performed by a geotechnical engineer or representative to identify any potential problematic conditions. Any undercut and replacement of unsuitable soils should be replaced with new engineered fill meeting the requirements of the Material Types in the Site Preparation section of this report or lean concrete. Additional recommendations for design and construction of foundations are presented in the following sections.

The General Comments section provides an understanding of the report limitations.

EARTHWORK

Earthwork is anticipated to include clearing and grubbing, excavations, and fill placement. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria, as necessary, to render the site in the state considered in our geotechnical engineering evaluation for foundations and floor slabs.

Site Preparation

The following presents recommendations for site preparation, excavation, and fill placement. Special considerations will be needed where site grading may expose unstable soils. Our recommendations presented for design and construction of earth supported elements (i.e. foundations, slabs, etc.) are contingent upon following the recommendations outlined in this section. Earthwork activities on the project should be observed and evaluated by Terracon.

Prior to construction, the site should be grubbed and all vegetation, topsoil and any otherwise unsuitable material should be removed from the construction area. Wet or dry material should

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



either be removed or moisture conditioned and recompacted to the project specified densities and moisture contents. Any unsuitable materials should be undercut and replaced with engineered fill meeting the requirements of the Fill Material Requirements section of this report. We recommend the actual stripping depth and undercutting of unsuitable soils be observed and documented by a representative of Terracon during construction.

Following rough grading, and prior to placement of foundations, the subgrade should be evaluated by proofrolling where possible to aid in locating unstable subgrade soils. Any soft, loose, or otherwise unsuitable areas identified during the proofroll will require undercutting or improvement. Where proofrolling is not possible, the subgrade should be evaluated by observation and probing to aid in locating unsuitable or unstable areas. The appropriate method and amount of stabilization, if required, should be determined at the time of construction based on observations by the geotechnical engineer.

It should be noted that the on-site clay soils may be susceptible to disturbance from construction activity, particularly if the soil has high natural moisture and is wetted by surface water or seepage. Therefore, care should be taken during the site grading operation to provide adequate site drainage and minimize disturbance of the bearing soils.

Fill Material Types

All imported material or on-site material proposed for reuse should be tested to verify conformance with the material property and placement recommendations in this section. Engineered fill should meet the following material property requirements:

Fill Type USCS Classification		Acceptable Location for Placement		
Lean Clay ²	CL (LL<50% & PI<15)	On-site available soil. All locations and elevations.		
Fat Clay ²	CH (LL>50%)	Not recommended for use as structural fill within 2 feet of any structures (i.e. floor slabs and foundations).		
Well graded granular and silty gravel GM-GW, GM Al		All locations and elevations		
Low Volume Change CL or GM-GW, GM ³ (LL<40% & PI<15)		All locations and elevations		

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



Fill Type 1	USCS Classification	Acceptable Location for Placement

- Controlled, compacted fill should consist of approved materials that are free of organic matter and debris.
 Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
- Delineation of lean clays and fat clays should be performed in the field by a qualified geotechnical engineer or their representative, and could require additional laboratory testing.
- 3. Similar to KYTC DGA or crushed stone base limestone, limestone screenings, or granular material such as sand, gravel or crushed stone containing not more than 14% non-plastic fines.

Fill Compaction Requirements

Structural and general fill should meet the following compaction requirements.

ITEM	DESCRIPTION		
Fill Lift Thickness	8-inches or less loose thickness for heavy, self-propelled compaction equipment. 4- to 6-inches loose thickness for hand-guided equipment (i.e. jumping jack or plate compactor).		
Compaction Requirements ¹ (Structural Areas)	At least 98% of the materials Standard Proctor maximum of density (ASTM D 698)		
Compaction Requirements (Landscape Areas)	At least 95% of Standard Proctor maximum dry density (provided long-term plans do not include a structure in these areas)		
Moisture Content - Cohesive Soils	Within the range of 2% below to 3% above the optimum moisture content (OMC) as determined by the Standard Proctor test at the time of placement and compaction		
Moisture Content - Granular Material ²	Within workable moisture levels / ±2% of OMC		

- 1. Engineered fill should be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.
- Specifically, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the cohesionless fill material pumping when proofrolled.

Utility Trench Backfill

All trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. If utility trenches are backfilled with relatively clean granular material, they should be capped with at least 18 inches of cohesive soil to reduce the infiltration and conveyance of surface water through the trench backfill.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



Utility trenches are a common source of water infiltration and migration. All utility trenches that penetrate beneath the foundation should be effectively sealed to restrict water intrusion and flow through the trenches that could migrate below the foundation with a clay plug. The plug material should consist of clay compacted at a water content at or above the soil's optimum water content. The clay fill should be placed to completely surround the utility line and be compacted in accordance with recommendations in this report.

Grading and Drainage

Effective site drainage is important both during construction and during the life of the structures. Adequate drainage will be necessary to control and divert stormwater runoff away from the site. Final surrounding grades should be sloped away from the foundations to prevent ponding of water.

Excess materials generated during site grading, including soils unsuitable for use as engineered fill (i.e. high-plasticity material, topsoil, etc.), and may be placed as fill in non-structural landscape areas and in the construction of landscape berms. To the extent possible, these materials should be placed in accordance with the Fill Compaction Requirements.

Earthwork Construction Considerations

Although the exposed subgrade may be relatively stable upon initial exposure, unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. It is recommended that construction activities be performed during drier weather, if possible. Some subgrade instability should be anticipated if construction is planned during wet weather that may require undercutting and/or stabilization. The use of light construction equipment would aid in reducing subgrade disturbance. Should unstable subgrade conditions develop, stabilization measures will need to be implemented.

Shallow excavations are anticipated to be accomplished with conventional construction equipment. Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to placement of utilities. Construction traffic over the completed subgrades should be avoided. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over, or adjacent to, construction areas should be removed. If the subgrade freezes, desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted, prior to foundation construction.

At a minimum, all temporary excavations should be sloped or braced as required by OSHA guidelines to provide stability and safe working conditions, and to protect the integrity of adjacent structures. Temporary excavations will probably be required during grading operations and utility trenches. The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required,

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state and federal safety regulations, including the current Occupational Safety and Health Administration (OSHA) Excavation and Trench Safety Standards.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proofrolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction.

Construction Observation and Testing

The earthwork efforts should be monitored under the direction of the Geotechnical Engineer. Monitoring should include documentation of adequate removal of vegetation and topsoil, proofrolling, and mitigation of areas delineated by the proofroll to require mitigation.

Each lift of compacted fill should be tested, evaluated, and reworked, as necessary, until approved by the Geotechnical Engineer prior to placement of additional lifts. Each lift of fill should be tested for density and water content at a frequency of at least one test for every 2,500 square feet of compacted fill in the building areas. One density and water content test should be performed for every 50 linear feet of compacted utility trench backfill.

In areas of foundation excavations, the bearing subgrade should be evaluated under the direction of the Geotechnical Engineer. If unanticipated conditions are encountered, the Geotechnical Engineer should prescribe mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of the Geotechnical Engineer into the construction phase of the project provides the continuity to maintain the Geotechnical Engineer's evaluation of subsurface conditions, including assessing variations and associated design changes.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



SHALLOW FOUNDATIONS

If the site has been prepared in accordance with the requirements noted in Earthwork, the following design parameters are applicable for shallow foundations.

Tower Shallow Mat Foundation Design Parameters

Parameter	Mat		
Maximum net allowable bearing pressure on engineered fill or lean concrete extending to at least stiff clay ¹	2,750 psf		
Minimum foundation plan dimensions 6	15 feet		
Required bearing stratum ²	Engineered fill or lean concrete extending to at least stiff clay		
Ultimate coefficient of sliding friction	0.30		
Ultimate passive pressure 3	350 psf (below 3 feet)		
Minimum embedment below finished grade for frost protection ⁴	24 inches		
Est. total settlement from structural loads 5	1.5 inches		

- The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the mat base elevation. An appropriate factor of safety has been applied.
- Unsuitable or soft soils should be undercut, and the mat should be deepened to bear on the competent bearing stratum or could bear on lean concrete or new engineered fill extending from the foundation base to competent bearing stratum.
- 3. The sides of the excavation for the mat foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
- 4. To reduce the effects of seasonal moisture variations in the subgrade soils. Embedment depth does not include considerations for uplift resistance.
- The foundation settlement will depend upon embedment depth of the mat, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.
- Based on our understanding of the anticipated structural loading.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



Equipment Shelter Shallow Foundation Design Parameters

Parameter	Column	Wall	
Maximum net allowable bearing pressure on engineered fill or lean concrete extending to at least stiff clay ¹	2,750	psf	
Minimum foundation plan dimensions	24 inches	18 inches	
Required bearing stratum ²	Engineered fill or lean concrete extending to at least stiff clay		
Ultimate coefficient of sliding friction	0.30		
Ultimate passive pressure ³	350 psf (below 3 feet)		
Minimum embedment below finished grade for frost protection 4	24 inches		
Est. total settlement from structural loads ⁵	< 1 inch		
Estimated differential settlement 5	< 1 inch		

- The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied.
- 2. Unsuitable or soft soils should be undercut, and the footings should be deepened to bear on the competent bearing stratum or could bear on lean concrete or new engineered fill extending from the foundation base to competent bearing stratum.
- The sides of the excavation for the spread footing foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
- 4. For perimeter footing and footings beneath unheated areas. Also to reduce the effects of seasonal moisture variations in the subgrade soils.
- 5. The foundation settlement will depend upon embedment depth of the footings, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.

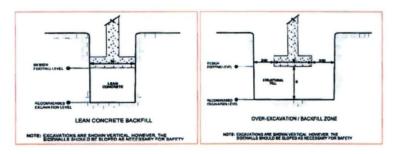
Shallow Foundation Construction Considerations

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or saturated, or frozen, the affected soil should be removed prior to placing concrete. Place a lean concrete mud-mat over the bearing soils if the excavations must remain open over night or for an extended period of time. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings could bear directly on these soils at the lower level or on lean concrete backfill (minimum of 500 psi) placed in the excavations. The footings could also bear on properly compacted lean clay backfill extending down to the suitable soils. Overexcavation for compacted lean clay backfill placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation with engineered fill as described in the Compaction Requirements section placed in lifts of 8 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum dry density as defined by the Standard Proctor (ASTM D 698). The overexcavation and backfill procedure is illustrated in the following figures for lean concrete or lean clay structural fill.

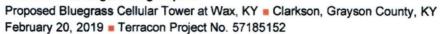


DEEP FOUNDATIONS

Drilled Shaft Design Parameters

Drilled piers should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and inspection of the bedrock surface from the ground. Due to the variability of materials (weak sandstone with clay seams) in the upper portion of the sandstone layer (from about 10 to 21 feet below ground surface), we recommend the competent sandstone layer to be selected for support of the drilled pier, the pier should be socketed a minimum of 4 feet into competent sandstone bedrock (encountered at a depth of 21 feet at boring B-1) resulting in a minimum tip depth of 25 feet below existing grades (15-foot embedment into sandstone bedrock).

Based on the results of the test boring data and laboratory testing, we have developed the following drilled pier soil and rock design parameters:





Approximate Depth (feet)	Allowable Skin Friction (psf)	Allowable End Bearing Capacity (psf)	Undrained Shear Strength, c (psf)	Unit Weight (pcf)	Strain ₆₅₀ / K _m	Lateral Subgrade Modulus, k (pci)	Model
0 – 3.5	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Lean Clay 3.5 – 10	410		2,500	120	ε ₅₀ 0.008	120	Very stiff to hard clay w/o water
Sandstone with clay seams 10 - 16	2,840	-	1,500	135	k _m 0.00001	3,000	Weak Rock (RQD=70)
Sandstone with clay seams 16 - 21	7,325		3,900	135	k _m 0. 00001	3,000	Weak Rock (RQD=70)
Sandstone 21 – 23	7,500	12,600	4,000	150	k _{rm} 0.00001	3,000	Strong Rock (RQD=95)

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety. The allowable skin friction has a factor of safety of 2. The allowable end bearing pressure provided in the table has an approximate factor of safety of 3. The parameters in the above table are based on our boring, published values and our past experience with similar soil and rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 4 feet into the bearing stratum. If the drilled pier is designed using the above parameters and bear within the competent sandstone bedrock with a minimum socket length of 4 feet, settlement is anticipated to be about ½ inch or less.

Our recommendations provided in this section do not include consideration for lateral capacity. However, we can perform LPile analysis upon request.

Drilled Shaft Construction Considerations

Groundwater may be encountered during the drilling for the drilled pier. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



Difficult drilling conditions may be encountered due to hard sandstone. The contractor should be prepared to penetrate competent sandstone bedrock. The bottom of the excavation should be inspected carefully by a qualified geotechnical engineer or representative for voids, clay layers within the sandstone, or any otherwise unsuitable bearing conditions.

Based on compressive strength and rock quality data, we expect that advancement of piers to minimum embedment in rock could be achieved by a rock auger equipped with self-rotating cutter bits or by rock coring. However, advancement method may vary between contractors depending on experience and their evaluation of penetration rates for the site conditions.

The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. We recommend that reinforcing steel and pier concrete be placed the same day as the shaft is drilled. No completed shaft excavation should be allowed to remain open overnight. It is suitable, however, for the contractor to excavate a portion of the drilled shaft and then complete the shaft excavation the next day.

If pier concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. Free-fall concrete placement in piers will only be acceptable if provisions are taken to avoid striking the concrete on the sides of the hole or reinforcing steel. The use of a bottom-dump hopper or tremie discharging near the bottom of the hole where concrete segregation will be minimized, is recommended. Due to potential sloughing and raveling, foundation concrete quantities may exceed calculated geometric volumes.

Adequate performance of the drilled shaft foundations will be highly dependent on the contractor's installation techniques used to construct the foundation elements. At a minimum, the following inspection criteria should be incorporated as a requirement for construction of the drilled piers.

Bearing conditions of the drilled pier foundations should be evaluated by a qualified geotechnical engineer at the time of construction to confirm suitable end bearing on competent bedrock and to provide recommendations if unsuitable bearing materials are encountered. Entry of personnel into the drilled pier foundations is not required and is strongly discouraged for this project. The evaluation of the piers should include the following:

- Contractor should advance a test hole with an air track drill through the bedrock bearing surface to a depth of at least two times the pier diameter to check for discontinuities in the bedrock that may require additional rock removal.
- The number of test holes at each pier location would be determined by the geotechnical engineer's representative based on the field test results.
- Significant discontinuous rock layers may require additional rock removal as directed by the engineer's representative.
- Prior to installation of the reinforcing steel cage, the base of each pier should be sounded to check for voids or clay seams in the underlying bedrock. This could be done by dropping the drill rig Kelly bar onto the exposed bedrock surface at selected locations.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



Visual evaluation of the exposed bearing surface should be performed by the engineer's representative to confirm that the base is free from loose material, soil, water or other unsuitable materials. Visual inspection to determine the suitability of the shaft bottom using either a flashlight or reflected light with a mirror may be conducted from the ground surface.

SEISMIC CONSIDERATIONS

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC). Based on the soil/bedrock properties encountered at the site and as described on the exploration log and results, it is our professional opinion that the **Seismic Site Classification is C**. Subsurface explorations at this site were extended to a maximum depth of 25 feet. The site properties below the boring depth to 100 feet were estimated based on our experience and knowledge of geologic conditions of the general area. Additional deeper borings or geophysical testing may be performed to confirm the conditions below the current boring depth.

FLOOR SLABS

Where undercut is performed below the floor slab bearing elevation, the exposed material should pass a proofroll. Native soils below the floor slab bearing elevation should pass a proofroll observed by a geotechnical engineer or representative. Please refer to the **Site Preparation** section of this report for additional details regarding the partial undercut and replacement below floor slab subgrade elevation.

Design Parameters

Item	Description		
Floor slab support	Engineered fill, or at least very stiff native soils		
Modulus of subgrade reaction	100 pounds per square inch per in (psi/in) for point loadin conditions		
Aggregate base course/capillary break ¹	Minimum 4 inches of free-draining granular material		
Vapor Barrier	Project Specific ²		
Structural considerations	Floor slabs should be structurally independent of building ³		

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



- 1 The floor slab design should include a capillary break, comprised of free-draining, compacted, granular material, at least 4 inches thick. Free-draining granular material should have less than 5 percent fines (material passing the #200 sieve).
- 2 The use of a vapor retarder should be considered beneath concrete slabs on grade that will be covered with wood, tile, carpet or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.
- 3. Floor slabs should be structurally independent of any building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation. Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates that any differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks that occur beyond the length of the structural dowels. The structural engineer should account for this potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

Floor Slab Construction Considerations

Prior to construction of grade supported slabs, varying levels of remediation may be required to reestablish stable subgrades within slab areas due to construction traffic, rainfall, disturbance, desiccation, etc. As a minimum, the following measures are recommended.

- Confirm that interior trench backfill placed beneath slabs is compacted in accordance with recommendations outlined in the <u>Site Preparation</u> section of this report.
- All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.

Floor Slab Subgrade Preparation

On most project sites, the site grading is generally accomplished early in the construction phase. However, as construction proceeds, the subgrade may be disturbed due to utility excavations, construction traffic, desiccation, rainfall, etc. As a result, the floor slab subgrade may not be suitable for placement of aggregate base and concrete and corrective action will be required. Additional protection, stabilization measures may be necessary and requires specific field evaluation. We recommend floor subgrades be maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become desiccated prior to construction of floor slabs, the affected material should be removed or the materials scarified, moistened, and recompacted. Upon completion of grading operations in the building areas, care should be taken to maintain the recommended subgrade moisture content and density prior to construction of the equipment building floor slabs.

We recommend the area underlying the floor slab be rough graded and then thoroughly proofrolled with a loaded tandem-axle dump truck prior to final grading and placement of aggregate base. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



areas where backfilled trenches are located. Areas where unsuitable conditions are located should be repaired by removing and replacing the affected material with properly compacted fill. All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the aggregate base and concrete.

GENERAL COMMENTS

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client, and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

FIGURES

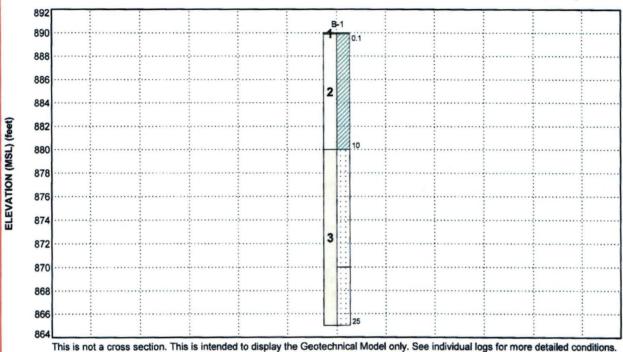
Contents:

GeoModel

GEOMODEL

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, KY 2/20/2019 Terracon Project No. 57185152





Model Layer	Layer Name General Description	
1	Topsoil	Topsoil
2	Lean clay	Yellowish brown to reddish brown lean day, trace sand
3	Sandstone	Gray sandstone with water staining, weak to strong

LEGEND

Topsoil

Lean Clay

Sandstone

First Water Observation

Second Water Observation

Third Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:

Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

ATTACHMENTS

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



EXPLORATION AND TESTING PROCEDURES

Field Exploration

Number of Borings	Boring Depth (feet)	Location
1	25	Tower

Boring Layout and Elevations: Bluegrass Cellular Inc. personnel provided the boring layout and staked the boring. Approximate elevation was obtained by Landmark Surveying Co., Inc. If elevation and a more precise boring layout are desired, we recommend boring be surveyed following completion of fieldwork.

Subsurface Exploration Procedures: We advanced the boring with an ATV-mounted rotary drill rig using continuous flight augers (hollow stem). Four samples were obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring log at the test depths. We observed and recorded groundwater levels during drilling and sampling. For safety purposes, the boring was backfilled with auger cuttings after completion.

The sampling depths, penetration distances, and other sampling information was recorded on the field boring log. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a Geotechnical Engineer. Our exploration team prepared the field boring log as part of the drilling operations. The field log included visual classifications of the materials encountered during drilling and our interpretation of the subsurface conditions between samples. The final boring log was prepared from the field log. The final boring log represent the Geotechnical Engineer's interpretation of the field log and include modifications based on observations and tests of the samples in our laboratory.

Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests to understand the engineering properties of the various soil and rock strata, as necessary, for this project. Procedural standards noted below are for reference to methodology in general. In some cases, variations to methods were applied because of local practice or professional judgment. Standards noted below include reference to other, related standards. Such references are not necessarily applicable to describe the specific test performed.

Proposed Bluegrass Cellular Tower at Wax, KY ■ Clarkson, Grayson County, KY February 20, 2019 ■ Terracon Project No. 57185152



- ASTM D2216 Standard Test Methods for Laboratory Determination of Water (Moisture)
 Content of Soil and Rock by Mass
- ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
- ASTM D7012 Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

The laboratory testing program often included examination of soil samples by an engineer. Based on the material's texture and plasticity, we described and classified the soil samples in accordance with the Unified Soil Classification System.

Rock classification was conducted using locally accepted practices for engineering purposes; petrographic analysis may reveal other rock types. Rock core samples typically provide an improved specimen for this classification. Boring log rock classification was determined using the Description of Rock Properties.

Proposed Bluegrass Cellular Tower at Wax, KY Clarkson, Grayson County, KY February 20, 2019 Terracon Project No. 57185152



PHOTOGRAPHY LOG



PHOTO #1 – Rock core sample at B-1 from about 10 to 20 feet below existing grade (top of the core at upper right corner)



PHOTO #2 – Rock core sample at B-1 from about 20 to 25 feet below existing grade (bottom of the core at lower left corner)

SITE LOCATION AND EXPLORATION PLANS

Contents:

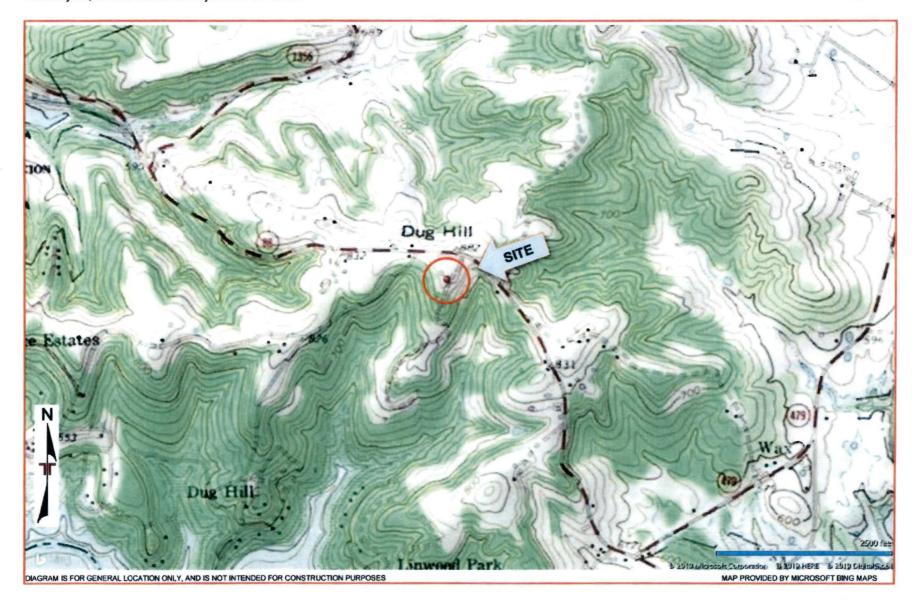
Site Location Plan Exploration Plan

Note: All attachments are one page unless noted above.

SITE LOCATION

Proposed Bluegrass Cellular Tower at Wax, KY • Clarkson, Grayson County, KY February 20, 2019 • Terracon Project No. 57185152





EXPLORATION PLAN

Proposed Bluegrass Cellular Tower at Wax, KY • Clarkson, Grayson County, KY February 20, 2019 • Terracon Project No. 57185152





EXPLORATION RESULTS

Contents:

Boring Log (B-1) Atterberg Limits

Note: All attachments are one page unless noted above.

		BORING L	OG	N	O . I	B-	1			F	Page	1 of 2
P	ROJ	ECT: Proposed Bluegrass Cellular Tower at Wax, KY	CL	IENT	: BI	ueg	grass	s Cellular Part	nersh			
S	ITE:	12523 Peonia Road Clarkson, KY										
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 37.3616* Longitude: -86.1394* Approximate Surface Elev.: 890 (Ft.) DEPTH DEPTH C1_ATOPSOIL		DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	Unconfined Compressive Strength (psi)	LABORATORY HP (tsf)	WATER CONTENT (%)	LL-PL-PI
		LEAN CLAY (CL), trace sand, yellowish brown to reddish brown, moist, stiff to hard	H(1+1)									
				-		\bigvee	16	4-6-8 N=14		2.25 (HP)	12	
				-								
2				5-		X	10	6-10-10 N=20		4.5 (HP)	17	40-18-22
2		- rock fragment		_		7						
		*		-		\bigwedge	5	16-12-21 N=33		3.0 (HP)	14	
				_		X	5	50/5"			8	
			80+/-	10-								
		SANDSTONE, gray, very close fracture spacing, thin bedding, highly weathered, weak rock, with water staining vertical fracture		_					1940			
3		- clay seam, 2 inches thick - clay seam, 2 inches thick - vertical fracture							1500			
3												
	Str	ratification lines are approximate. In-situ, the transition may be gradual.					па	mmer Type: Automat				
Adv 3	Advancement Method: 3-1/4 HSA See Exploration and Tes description of field and le used and additional data		laborat	tory pro	res for	r a es	Note	es:				
Aba		ent Method: ackfilled with auger cuttings upon completion. See Supporting Informa symbols and abbreviation. Elevations were provide.	ons.			of						
E		WATER LEVEL OBSERVATIONS Surveying Co. Inc.					Borin	g Started: 01-12-2019	В	oring Com	pleted:	01-12-2019
	Gr	oundwater not encountered	3		or		Drill F	Rig: CME-750	D	riller: Rob	Sizemo	ore
1993	24	13050 Eastgate F Louisv	Park W	lay, Ste	101		Project No.: 57185152					

		BORING	LO	G NO	o . I	В-	1				Page	2 of 2
P	ROJ	ECT: Proposed Bluegrass Cellular Tower at Wax, KY	, C	LIENT	: BI	ueç izal	gras: beth	s Cellular Part town, KY	tnership			
S	ITE:	12523 Peonia Road Clarkson, KY										
YER	507	LOCATION See Exploration Plan		5	VEL	YPE	(ln.)	L S	od (is	RY	(%)	LIMITS
MODEL LAYER	GRAPHIC LOG	Latitude: 37.3616° Longitude: -86.1394°		DEPTH (Ft.)	ER LE	SAMPLE TYPE	VERY	FIELD TEST RESULTS	Unconfined Compressive Strength (psi)	RATO P (Ist)	ATER	
MOD	GRA	Approximate Surface Elev.: 890		DEF	WATER LEVEL OBSERVATIONS	SAME	RECOVERY (In.)	문문	Street	LABORATORY HP (Isf)	WATER CONTENT (%)	LL-PL-PI
		SANDSTONE, gray, very close fracture spacing, thin bedding, highly weathered, weak rock, with water staining. (continued)	ON (Ft.)	-								
		Starring. (continued)				П						
		- clay seam, 1 inch thick - vertical fracture		-								2
				15-			113	RQD=70%				
		- vertical fracture				П						
		- clay seam, 1 inch thick		_								
		- clay seam, 1 inch thick - vertical fracture				П						
5		- vertical mactions				П						
		diad factors		-	1	П						
		- vertical fracture				П						
200				-		Н				1		
						П			3900			
3		: - clay seam, 1 inch thick		-	1	Н				-		
3						П						
		- clay seam, 1 inch thick - vertical fracture	870+/-	20-	-	Н						
and a contract of the contract		SANDSTONE, gray, close fracture spacing, thin bedding, moderately weathered, strong rock, with water staining.										
		- clay seam, 1 inch thick		-		П				7		
100						П			7090			
		- clay seam, 1 inch thick		-		Н				1		
							60	RQD=95%				
96				-	1	П						
5						П						
				-	-	П						
	::::	- pink layer, 1 inch				П						
	::::	25.0	865+/	25-	P	Ц			1.1			
		Boring Terminated at 25 Feet		20								
	S	tratification lines are approximate. In-situ, the transition may be gradual.					На	mmer Type: Automa	tic			
Adv	vancen 3-1/4 H	nent Method: See Exploration an					Not	es:				
3	3-1/4 HSA description of field and used and additional data				seaur	85						
Aba		See Supporting Info nent Method: symbols and abbre		for expla	nation	of						
E	Boring I	packfilled with auger cuttings upon completion. Elevations were pro	ovided by	/ Landma	ırk							
		WATER LEVEL OBSERVATIONS				_	Borin	g Started: 01-12-201	9 Bo	ring Com	pleted:	01-12-2019
5	G	roundwater not encountered IICF	LG.			1	Drill I	Rig: CME-750	Dri	ller: Rob	Sizemo	ore
193	a		ate Park ouisville,	Park Way, Ste 101								

SUMMARY OF LABORATORY RESULTS

419	Borehole	Depth	USCS	In-Situ P	roperties	Cla	assific	ation			Ex	pansion	Testing			Corrosivi	ity	
1/28	No.	(ft.)	Soil Class.	Dry Density	Water	Passing #200	Atter	berg L	imits	Dry Density	Water Content		Expansion	Expansion Index	рН	Resistivity	Sulfates	Remarks
9			Olass.	(pcf)	Content (%)	#200 Sieve (%)	LL	PL	PI	(pcf)	(%)	(psf)	(%)	El 50	ρ.,	(ohm-cm)	(ppm)	
ATE	B-1	1			12													2
EMP	B-1	3.5	CL		17		40	18	22									
TAT	B-1	6			14													2
Ž,	B-1	8.5			8													2

REMARKS

1. Dry Density and/or moisture determined from one or more rings of a multi-ring sample.

2. Visual Classification.

3. Submerged to approximate saturation.

4. Expansion Index in accordance with ASTM D4829-95.

5. Air-Dried Sample

PROJECT: Proposed Bluegrass Cellular Tower at Wax, KY SITE: 12523 Peonia Road Clarkson, KY

PROJECT NUMBER: 57185152

CLIENT: Bluegrass Cellular Partnership Elizabethtown, KY

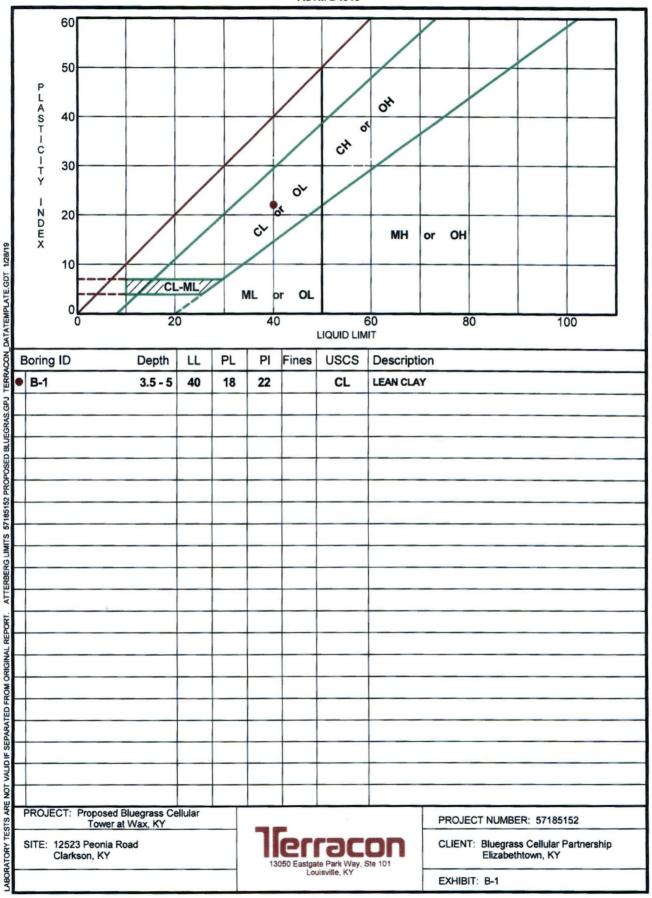
EXHIBIT: B-1

PH, 502-456-1256

FAX. 502-456-1278

ATTERBERG LIMITS RESULTS

ASTM D4318



SUPPORTING INFORMATION

Contents:

General Notes Unified Soil Classification System Description of Rock Properties

Note: All attachments are one page unless noted above.

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

		M		V	Water Initially Encountered		(HP)	Hand Penetrometer
	Auger	Split Spoon			Water Level After a Specified Period of Time		(T)	Torvane
NG	Shallou Tuba	Macro Core	EVEL		Water Level After a Specified Period of Time	STS	(b/f)	Standard Penetration Test (blows per foot)
SAMPLING	Shelby Tube	Macro Core	_		s indicated on the soil boring levels measured in the	D TE	(PID)	Photo-Ionization Detector
SAN	Ring Sampler	Rock Core	WATER	Groundwate over time. In	the times indicated. er level variations will occur n low permeability soils,	표	(OVA)	Organic Vapor Analyzer
	een.			levels is not	etermination of groundwater to possible with short term observations.			
	Grab Sample	No Recovery						

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

	(More than Density determin	NSITY OF COARSE-GRA n 50% retained on No. 200 ned by Standard Penetration des gravels, sands and sil	sieve.) on Resistance	CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance							
TERMS	Descriptive Term (Density)	Standard Penetration or N-Value Blows/Ft.	Ring Sampler Blows/Ft.	Descriptive Term (Consistency)	Unconfined Compressive Strength, Qu, psf	Standard Penetration or N-Value Blows/Ft.	Ring Sampler Blows/Ft.				
	Very Loose	0 - 3	0-6	Very Soft	less than 500	0 - 1	< 3				
ם	Loose	4 - 9	7 - 18	Soft	500 to 1,000	2-4	3-4				
STRENGTH	Medium Dense	10 - 29	19 - 58	Medium-Stiff	1,000 to 2,000	4 - 8	5-9				
ST	Dense	30 - 50	59 - 98	Stiff	2,000 to 4,000	8 - 15	10 - 18				
	Very Dense	> 50	≥ 99	Very Stiff	4,000 to 8,000	15 - 30	19 - 42				
				Hard	> 8,000	> 30	> 42				

RELATIVE PROPORTIONS OF SAND AND GRAVEL

GRAIN SIZE TERMINOLOGY

Descriptive Term(s) of other constituents	Percent of Dry Weight	Major Component of Sample	Particle Size
Trace With Modifier	< 15 15 - 29 > 30	Boulders Cobbles Gravel Sand Silt or Clay	Over 12 in. (300 mm) 12 in. to 3 in. (300mm to 75mm) 3 in. to #4 sieve (75mm to 4.75 mm) #4 to #200 sieve (4.75mm to 0.075mm Passing #200 sieve (0.075mm)
RELATIVE PROPORTIO	NS OF FINES	PLAS	TICITY DESCRIPTION

RELATIVE PROPORTIONS OF FINES

Percent of	<u>Term</u>	Plasticity Index
Dry Weight	Non-plastic	0
< 5	Low	1 - 10
5 - 12	Medium	11 - 30
> 12	High	> 30
	Percent of Dry Weight < 5 5 - 12	Percent of Dry Weight Term < 5





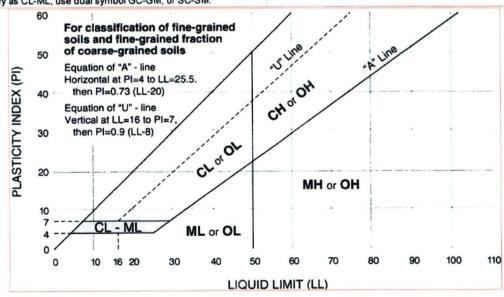
			A section of the sect		-	oil Classification
Criteria for Assigni	ing Group Symbols	and Group Names	Using Laboratory 1	ests *	Group Symbol	Group Name
		Clean Gravels:	Cu ≥ 4 and 1 ≤ Cc ≤ 3 .		GW	Well-graded gravel F
	Gravels: More than 50% of	Less than 5% fines ^C	Cu < 4 and/or [Cc<1 or C	c>3.0] E	GP	Poorly graded gravel
	coarse fraction retained on No. 4 sieve	Gravels with Fines:	Fines classify as ML or M	ИΗ	GM	Silty gravel F. G. H
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	retained on No. 4 Sieve	More than 12% fines 6	Fines classify as CL or C	Н	GC	Clayey gravel F, G, H
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands:	Cu ≥ 6 and 1 ≤ Cc ≤ 3 .	SW	Well-graded sand	
		Less than 5% fines D	Cu < 6 and/or [Cc<1 or C	c>3.0] E	SP	Poorly graded sand
		Sands with Fines:	Fines classify as ML or N	ИН	SM	Silty sand G, H, I
		More than 12% fines D	Fines classify as CL or C	н	sc	Clayey sand G, H, I
			PI > 7 and plots on or ab	CL	Lean clay K, L, M	
	Silts and Clays:	Inorganic:	PI < 4 or plots below "A"	line J	ML	Silt K, L, M
	Liquid limit less than 50	Omenie	Liquid limit - oven dried	iquid limit - oven dried		Organic clay K, L, M,
ine-Grained Soils:		Organic:	Liquid limit - not dried	< 0.75	OL	Organic silt K, L, M, O
0% or more passes the to 200 sieve		Incurante	PI plots on or above "A"	line	CH	Fat clay K, L, M
	Silts and Clays:	Inorganic:	PI plots below "A" line		MH	Elastic Silt K. L. M
	Liquid limit 50 or more	Organia	Liquid limit - oven dried		ОН	Organic clay K, L, M,
		Organic:	Liquid limit - not dried	< 0.75	OH	Organic silt K, L, M, O
lighly organic soils:	Primarily	organic matter, dark in c	olor, and organic odor		PT	Peat

- A Based on the material passing the 3-inch (75-mm) sieve.
- If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
- Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

$$E_{Cu} = D_{60}/D_{10}$$
 $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

- F If soil contains ≥ 15% sand, add "with sand" to group name.
- If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

- HIf fines are organic, add "with organic fines" to group name.
- If soil contains ≥ 15% gravel, add "with gravel" to group name.
- If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
- If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
- Left soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
- MIf soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
- NPI ≥ 4 and plots on or above "A" line.
- OPI < 4 or plots below "A" line.
- PI plots on or above "A" line.
- PI plots below "A" line.



DESCRIPTION OF ROCK PROPERTIES



Marine Commission of the Commi	WEATHERING
Term	Description
Unweathered	No visible sign of rock material weathering, perhaps slight discoloration on major discontinuity surfaces.
Slightly weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than in its fresh condition.
Moderately weathered	Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a continuous framework or as corestones.
Highly weathered	More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a discontinuous framework or as corestones.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact
Residual soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported.

Description	Field Identification	Uniaxial Compressive Strength, psi (MPa)		
Extremely weak	Indented by thumbnail	40-150 (0.3-1)		
Very weak	Crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife	150-700 (1-5)		
Weak rock	Can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer	700-4,000 (5-30)		
Medium strong	Cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer	4,000-7,000 (30-50)		
Strong rock	Specimen requires more than one blow of geological hammer to fracture it	7,000-15,000 (50-100)		
Very strong	Specimen requires many blows of geological hammer to fracture it	15,000-36,000 (100-250)		
Extremely strong	Specimen can only be chipped with geological hammer	>36,000 (>250)		

Fracture Spacing (Join	nts, Faults, Other Fractures)	Bedding Spacing (May Include Foliation or Banding)						
Description	Spacing	Description	Spacing					
Extremely close	< 3/4 in (<19 mm)	Laminated	< ½ in (<12 mm)					
Very close	3/4 in - 2-1/2 in (19 - 60 mm)	Very thin	½ in – 2 in (12 – 50 mm)					
Close	2-1/2 in - 8 in (60 - 200 mm)	Thin	2 in - 1 ft. (50 - 300 mm)					
Moderate	8 in - 2 ft. (200 - 600 mm)	Medium	1 ft 3 ft. (300 - 900 mm)					
Wide	2 ft 6 ft. (600 mm - 2.0 m)	Thick	3 ft 10 ft. (900 mm - 3 m)					
Very Wide	6 ft 20 ft. (2.0 - 6 m)	Massive	> 10 ft. (3 m)					

<u>Discontinuity Orientation (Angle)</u>: Measure the angle of discontinuity relative to a plane perpendicular to the longitudinal axis of the core. (For most cases, the core axis is vertical; therefore, the plane perpendicular to the core axis is horizontal.) For example, a horizontal bedding plane would have a 0-degree angle.

ROCK QUALITY DESIGNATION (RQD) 1								
Description	RQD Value (%)							
Very Poor	0 - 25							
Poor	25 – 50							
Fair	50 – 75							
Good	75 – 90							
Excellent	90 - 100							

¹ The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

Reference:

U.S. Department of Transportation, Federal Highway Administration, Publication No FHWA-NHI-10-034, December 2009 Technical Manual for Design and Construction of Road Tunnels – Civil Elements

LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET · WASHINGTON, INDIANA 47501

PHONE: 812.257.0950 · WEBSITE: WWW.LANDMARKSURVEYINGCO.COM

DARREN L. HELMS, P.S., PRESIDENT

DENNIS N. HELMS, P.S., CPESC, VICE-PRESIDENT



Directions to the Site

From the County Seat of Grayson County, Kentucky

Wax Site

From the courthouse in downtown Leitchfield, Kentucky: travel north on U.S. Highway 62 (North Main Street) for 0.3 miles to a stop light; turn right at the stop light and continue on U.S. Highway 62 (Mill Street) east for 3.9 miles to Clarkson and Kentucky Highway 88; turn right onto Kentucky Highway 88 and travel south for 12.5 miles to an asphalt lane, which leads to the tower site, that lies 1.1 miles from Kentucky Highway 479 in Wax; turn right onto the asphalt lane and travel southeast for 250 feet to a stone lane; turn right onto the stone lane and continue southeast for 200 feet to the tower site near an Edmonson County Water District elevated water storage tank. The address of the site is 12523 Peonia Road, Clarkson, Kentucky 42726.

Darren L. Helms, P.L.S. 3386

JANUARY 24, 2019

Date

STATE OF KENTUCKY

DARREN L. HELMS

3386

LICENSED
PROFESSIONAL

LAND SURVEYOR

OPTION TO LEASE AND LEASE AGREEMENT

I.

OPTION TO LEASE REAL PROPERTY

THIS OPTION TO LEASE REAL PROPERTY (the "Option Agreement") is made and entered into this // day of Dencember, 20/8, by and between Nathan C Maulden, whose address is 12517 Peonia Road, Clarkson, KY 42726 (the "Optionor (s)" and Kentucky RSA #3

Cellular General Partnership (a Kentucky general Partnership) with principal office and place of business at 2902 Ring Road, Elizabethtown, KY 42701 (the "Optionee").

WITNESSETH:

WHEREAS, the Optionor(s) is the owner of certain real property located in <u>Grayson</u> County, **Kentucky** as more particularly described on Exhibit A attached hereto and incorporated herein by reference (the "Property"); and

WHEREAS, the Optionor(s) wishes to grant to the Optionee, and the Optionee wishes to obtain from the Optionor(s), an option to lease a portion of the Property upon the terms and conditions set forth herein:

NOW, THEREFORE, in consideration of the foregoing premises and for other good and valuable consideration, the mutuality, receipt and sufficiency of which are hereby acknowledged, the parties hereto do agree as follows.

 In consideration of the payment of One Thousand Eight Hundred Dollars and Zero Cents (\$1,800.00) paid by the Optionee to the Optionor(s) (the "Option Consideration"), the receipt of which is hereby acknowledged by the Optionor(s),

Revised: April 2017

the Optionor(s) hereby grants to the Optionee an exclusive and irrevocable option to lease a portion of the Property upon the terms and conditions hereinafter set forth (the "Option") for a period of eighteen (18) months, commencing on the date of full execution (the "Option Period"), as set forth in Paragraph 5 thereof.

- The parties hereto anticipate that the portion of the Property which is the subject of this Option will comprise approximately a **One Hundred Foot by One Hundred Foot** area, together with a right of way across the Property for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the portion of the Property to be leased by it by a registered land surveyor licensed in the Commonwealth of Kentucky at the sole expense of the Optionee. A copy of the survey shall be provided to the Optionor(s). The description of the portion of the Property to be leased by the Optionee, including the right of way, shall be determined by the surveyor and shall hereafter be referred to as the "Leased Premises." The Optionee shall obtain said survey within a reasonable time following the date of the Option Agreement.
- 3. During the term of the Option, the Optionee may enter onto the Property at its own risk to obtain soil samples and to bore soil for the purposes of determining the suitability of the Leased Premises for a communications tower.
- 4. Upon the Optionee's proper exercise of the Option in accordance with Paragraph 5 hereof, the Optionor(s) shall be deemed to have immediately executed, acknowledged and delivered to the Optionee the Lease Agreement contained in Section II hereof. The description of the Leased Premises shall be that determined by the registered land surveyor in accordance with Paragraph 2 hereof.
- 5. If the Optionee elects to exercise the Option in accordance with the terms hereof, notice of such election shall be deemed sufficient if personally delivered or sent by

registered or certified mail, return receipt requested, to the address of the Optionor(s) set forth in Paragraph 14 hereof.

- 6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property, or any portion thereof, during the term of this Option or any renewal or extension of the Option.
- 7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Leased Premises or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.
- 8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.
- 9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.
- 10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Leased Premises shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the Option, and in such event, all sums received from the public authority by the Optionor(s) by reason of the taking of a portion of the Leased Premises shall reduce the rent due under the lease, or (ii) terminate this Option and thereupon the Optionor(s) shall be obligated to return to the Optionee the full amount of the

Site Name: Wax

Option Consideration previously paid to the Optionor(s) in "good and collected funds."

- 11. The parties hereto represent to each other that neither has engaged any broker to represent their interests in connection with the transactions contemplated hereby, and each agrees to indemnify the other against any and all claims made by any brokers engaged or purported to be engaged by the other for brokerage commissions or fees in connection with the transactions contemplated hereby.
- 12. The Optionor(s) represents, warrants and covenants to the Optionee that the Optionor(s) has not caused or permitted, and shall not cause or permit, and to the best of Optionor(s)' knowledge no other person has caused or permitted any hazardous material (as defined by any applicable federal, state or local law, rule or regulation) to be brought upon, placed, held, located or disposed of at the Leased Premises. In the event any such contamination occurs for which the Optionee becomes legally liable, the Optionor(s) shall indemnify the Optionee against all claims, damages, judgments, penalties and costs and expenses, including reasonable attorneys' fees, which Optionee may incur.
- 13. This Option Agreement and the rights and obligations of the parties hereto shall be construed in accordance with the laws of the Commonwealth of Kentucky.
- 14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: 12517 Peonia Road, Clarkson, KY 42726; the Optionee's address shall be: P.O Box 5012, Elizabethtown, KY 42702-5012. Any inquiry by the Optionor to the Optionee regarding the terms and conditions of the Option Agreement or Lease Agreement, or otherwise related to the Option Agreement or Lease Agreement, shall be made in writing and submitted to the attention of the Optionee's Lease Administrator at the above address.

Site Name: Wax

15. The parties agree that without the express written consent of the other party, neither party shall reveal, disclose or publish to any third party the terms of this Option Agreement or Lease Agreement or any portion thereof, except to such party's auditor, accountant, lender, attorney or to a government entity if required by regulation, subpoena or government order to do so. Notwithstanding the foregoing, either party may disclose the terms of this Option Agreement or Lease Agreement to any of its affiliated entities, and Optionee may disclose the terms of this Option Agreement or Lease Agreement to any of its lenders or creditors or to third parties that are potential lessees or licensees of space at the Leased Premises as may be reasonably necessary with respect to the operation, leasing, licensing and marketing of the Leased Premises.

16. The Optionee shall have the right, in its sole discretion, to record this Option in the Office of the Clerk of the County Court of <u>Grayson</u> County, Kentucky.

II.

LEASE AGREEMENT

- 17. In the event the Optionee elects to exercise the Option to lease the Leased Premises, the terms of the Lease Agreement ("Lease Agreement" or "Lease") shall become immediately effective upon such exercise and shall be as follows.
 - a. The term of the Lease shall commence on the date that the Optionor(s) receives proper notice that the Optionee has exercised the Option, pursuant to Paragraph 5 therein. The initial term shall expire five (5) year(s) from the commencement date of the Lease Agreement and shall include six (6) additional five (5)-year terms per the Lease Agreement. Optionee may, by providing written notice at least sixty (60) days prior to the expiration of the

original or any renewal Lease term, elect to unilaterally terminate this Lease at the end of any original or renewal Lease term. Such notice must be personally delivered or sent via registered or certified mail, return receipt requested, to the address of the Optioner(s) set forth in Paragraph 14 hereof. The Lease amount shall be adjusted at the end of each term by an increase of 12%.

- b. The Optionee shall pay to the Optionor(s) rent for the Leased Premises in the sum of Four Thousand Eight Hundred Dollars and Zero Cents (\$4,800.00) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).
- c. The Optionee shall be entitled to use and occupy the Leased Premises for the purpose of erecting, maintaining and operating a communications tower ("Tower") and communications facilities ("Facilities") thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.
- d. The Optionor(s) hereby grants Optionee easements on, under and across the Property for ingress, egress, utilities and access (including access for the purposes described in Paragraph 2) to the Leased Premises adequate to install and maintain utilities, including, but not limited to, the installation of power and telephone service cable, and to service the Leased Premises and the Tower and Facilities at all times during the Initial Term of the Lease and any Renewal Term ("Easement"). The Easements provided hereunder shall have the same term as this Lease.

- e. In the event the Property is encumbered by a mortgage or deed of trust, Optionor(s) agrees, upon request of Optionee, to obtain and furnish to Optionee a non-disturbance and attornment agreement for each such mortgage or deed of trust.
- f. The Optionor(s) shall be responsible for the payment of all real estate taxes which shall be assessed against the Property during the term of the Lease. In the event Optionor(s) fails to pay, when due, real estate taxes assessed against the Property ("Delinquent Taxes"), Optionee shall have the right, but not the obligation, to pay said Delinquent Taxes on Optionor(s) behalf and withhold such amount from future rental payments described in Paragraph 17(b) above. Optionee's election to pay any Delinquent Taxes in no way binds or obligates Optionee to continue to pay any such Delinquent Taxes thereafter. The responsibility to pay all real estate taxes assessed against the Property remains with Optionor(s). The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Leased Premises. The Optionee shall, at its own cost and expense, maintain and keep in full force and effect during the term of the lease public liability insurance with coverage in the amount of at least one million dollars (\$1,000,000.00) per person for bodily injury, disease, or death and shall maintain property insurance on any property of the Optionee located on the Leased Premises.
- g. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space.
- h. The Optionor(s) covenants that upon the Optionee's payment of the rent agreed upon herein, as well as Optionee's observing and performing all of the covenants and conditions contained in the Lease, the Optionee may

peacefully and quietly enjoy the Leased Premises subject to the terms and conditions set forth in the Lease.

- i. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.
- j. Optionee's Payment of Taxes, Fees and Assessments. Optionee shall pay directly to the applicable federal, state or local governmental unit or agency ("Governmental Entity") or to Optionor if Optionor is invoiced by such Governmental Entity, all taxes, fees, assessments or other charges assessed by any Governmental Entity directly against Optionee's Equipment and/or Optionee's use of the Facilities. Optionee shall also pay to Optionor Optionee's Pro Rata Share of all taxes, fees, assessments or charges including, but not limited to, personal property taxes attributable to Optionee's equipment and antenna(s), municipal franchise fees, use fees, municipal application fees, installation fees and increases thereof. "Pro Rata Share" shall mean the fraction of decimal equivalent of dividing one (1) by the total number of then existing users occupying a tower on the last day of the applicable calendar year.
- 18. This Option and Lease Agreement contains the entire agreement between the parties hereto and no modification or amendment shall be binding upon any party unless made in writing and signed by each of the parties hereto.
- 19. Upon the termination or other end of this Lease Agreement, Optionee shall have the right to remove any and all of its property (real or personal) from the Leased Premises regardless of whether or not such property may be considered a fixture thereto.

- 20. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the Tower and any/all equipment located on Optionor's property.
- 21. Before any interest in Optionor(s)' interest in the Lease, or any part thereof, is sold, assigned or transferred in any manner whatsoever (with or without consideration), the Optionee shall have a right of first refusal to acquire whatever interest in the Lease that the Optionor(s) proposes to transfer (the "Proposed Transfer"), on the terms and conditions set forth in this Paragraph 21 (the "Right of First Refusal").
 - a. Optionor(s) shall deliver to the Optionee a written notice (the "Notice") stating (i) the name of the proposed purchaser or transferee and the material terms and conditions of the Proposed Transfer, together with a complete copy of any written offer made to the Optionor(s) to acquire any interest in the Lease ("Offer").
 - At any time within thirty (30) days after receipt of the Notice; the Optionee may, by giving written notice to the Optionor (s) ("Optionee's Notice"), elect to exercise its Right of First Refusal and acquire the interest in the Lease proposed to be transferred pursuant to the Proposed Transfer at the purchase price and on the same terms and conditions as are contained in the Offer. If the Offer includes consideration other than cash, the cash equivalent value of the non-cash consideration shall be determined by the Optionee in good faith. In the event, Optionee exercises its right to acquire the interest in the Lease, the Optioner(s) shall convey, assign and/or transfer said interest to Optionee free and clear of all liens and encumbrances whatsoever (other than this Lease, which Lease shall remain in effect). All taxes, rents and other assessments applicable

Site Name: Wax

to the transferred interest, if any, shall be prorated to the date of closing. The Closing shall occur within thirty (30) days from the date of Optionee's Notice.

c. If the Optionee declines to exercise its Right of First Refusal to acquire the interest in the Lease proposed to be transferred, the Optioner(s) may sell or transfer same in accordance with the terms of the Offer subject, however, to this Lease and the Optionee's rights thereunder.

[Remainder of Page Intentionally Left Blank]

EXECUTION OF AGREEMENT(S)

IN WITNESS WHEREOF, the parties hereto have set their hands and affixed their respective seals.

Print Name: Nathan C. Maulden

Sign:

("Optionor(s)")

Property Owner(s)

Kentucky RSA #3

Cellular General Partnership

Sign: Ny Malce

Date: 12-11-18

("Optionee")

By: Doug Updegraff

Authorized Representative

Site Name: Wax

STATE OF Kentiky
COUNTY OF + ardin
The foregoing instrument was acknowledged before me this 11 day of December,
20, by Nathan C. Maulden to be his/her free act and deed.
IRVING O. ROBLES #544310
Notary Public NOTARY PUBLIC STATE AT LARGE
My commission expires: My Commission Expires Oct 21, 2019
STATE OF KENTUCKY
COUNTY OF HARDIN
The foregoing instrument was acknowledged before me this // day of December.
20/K, by, Doug Updegraff, as Authorized Representative on behalf of Kentucky RSA #3 Cellular
General Partnership (a Kentucky general Partnership), to be his free act and deed.
w L Vice
NOTARY PUBLIC STATE AT LARGE
My commission expires: $1-21-21$
This instrument prepared by:

John R. Rhorer, Jr.
DINSMORE & SHOHL LLP

250 West Main Street, Suite 1400

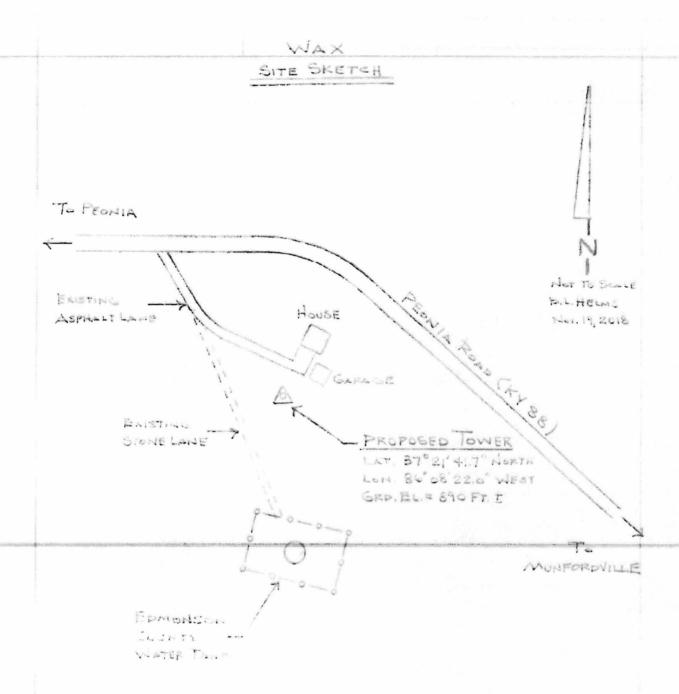
Kertiki

Lexington, KY 40507

(859) 425-1000

Site Name: Wax

EXHIBIT A



15 U.E. . I IN 47501 (CL2) 2.27-0650



APPROVAL SIGNATURES	
BLUEGRASS CELLULAR PROJECT SUPERVISOR:	
DATE:	
CITY REPRESENTATIVE:	
<u> </u>	
DATE:	
PROPERTY OWNER/OWNERS:	
DATE	
DATE:	
TOWER OWNER/OWNERS:	
DATE:	

SITE NAME: $\bigvee A X$

911 ADDRESS: 12523 PEONIA RD.

CLARKSON, KY

42726

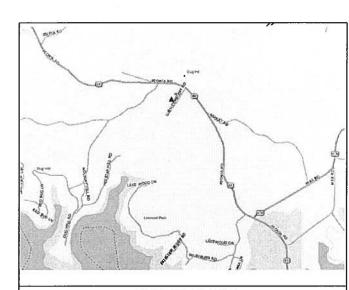
COUNTY: GRAYSON

TOWER LATITUDE & LONGITUDE

N37* 21' 41.7" W86* 08' 22.00"

SHEET INDEX				
SHEET NO.	DESCRIPTION	REVISION		
TITLE SHEET	TITLE SHEET			
SURVEY	SURVEY			
A-1	SITE PLAN			
A-2	FENCE DETAIL			
ANTENNA DETAILS 1	ANT.SPECS/TOWER ELEV.			
ANTENNA DETAILS 2	ANTENNA DETAILS 2			
E-1	SITE PLAN - ELECTRICAL			
E-2	ELECTRICAL DETAILS			
LYNCOLE	LYNCOLE GROUNDING	20 20 20 20 20 20 20 20 20 20 20 20 20 2		
E-3	ELEC. PLAN - GROUNDING			
E-4	GROUNDING - DETAILS	35.5		
S-1	FOUNDATION DETAILS			
GENERATOR DETAILS	GENERATOR DETAILS			
GENERAL NOTES	GENERAL NOTES			
		2000 0 0		
		100-01		

		3.8		



VICINITY MAP NOT TO SCALE

DIRECTIONS TO SITE

FROM ELIZABETHTOWN, KENTUDKY: TRAVEL WEBT ON WEBTERN KENTUCKY PKWY TO EXIT 112, GO EABT ON 8.R.224 AND IMMEDIATELY TAKE A RIGHT ON NELSON RO. FOLLOW APPROX. 2 MILES UNTIL IT DEADENDS INTO 8.R. 88 (PEONIA RD) TAKE A LEFT ON 8.R. 88 AND FOLLOW SOUTH APPROXIMATELY 11 MILES. WATCH FOR DUB HILL RD. ON THE RIGHT. THE VERY NEXT DRIVE ON THE RIGHT WILL BE THE ENTRANCE TO THE EXISTING WATER TANK.TAKEWATER TOWER DRIVEWAY BACK TO BITE, WHICH SITS JUST NORTHEAST OF TANK.

SITE DATA

PROPERTY OWNER: NATHAN MAULDEN (270)230-3129 12517 PEONIA RD. CLARKSON, KY. 42726

TOWER OWNER: BLUEGRASS CELLULAR (270) 769-0339

POWER COMPANY: WARREN RECC 1-270-259-3161

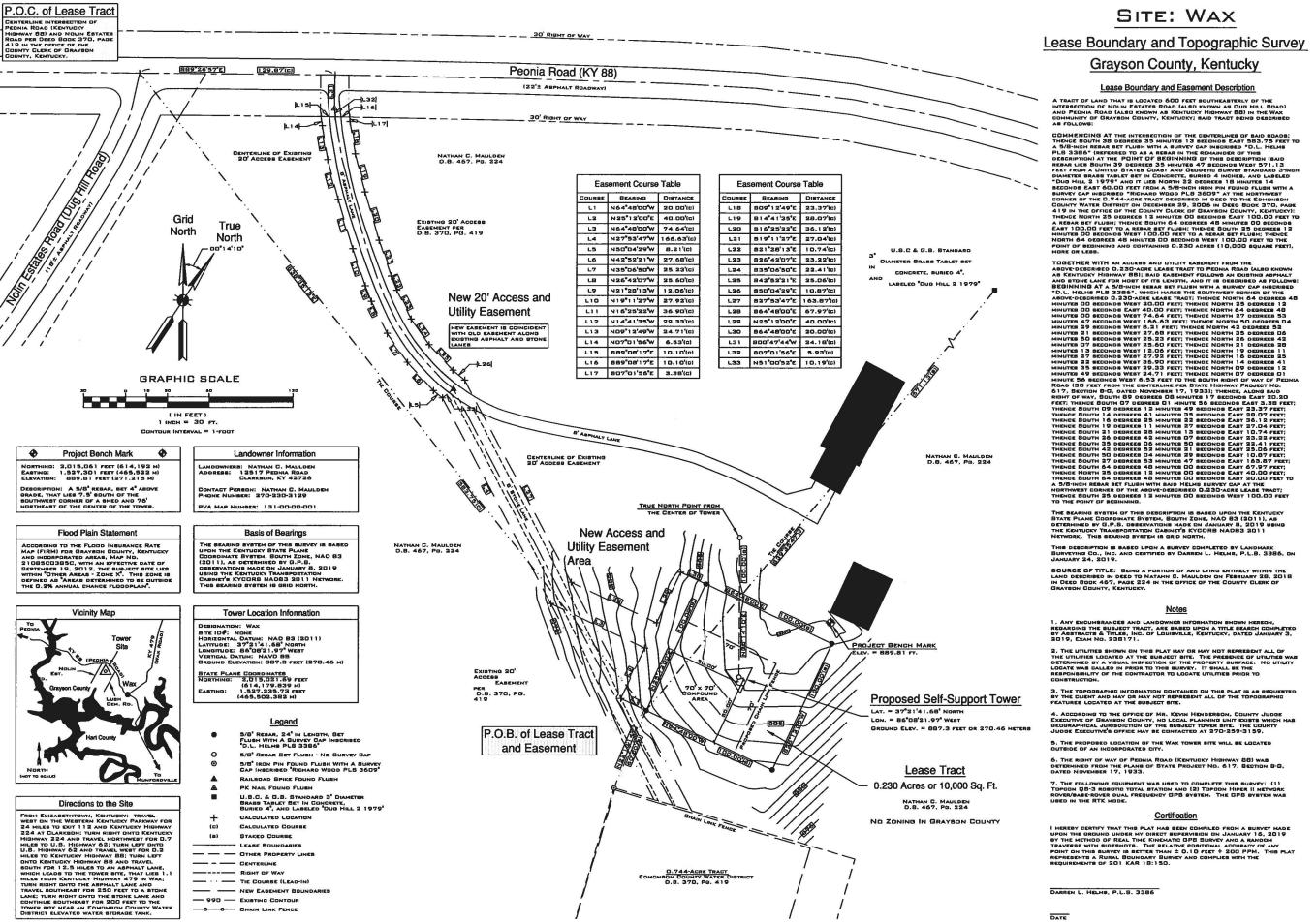
TELEPHONE COMPANY: WINDSTREAM (800) 752-6007

BLUEGRASS PROJECT MANAGER: MARK McNUTT (270) 734-1028

BLUEGRASS PROJECT SUPERVISOR: MASON McDOWELL (270) 734-1002



ROBIN BECKER (502) 599-9427 OFFICE



DATE



427

Road Kentucky, Peonia I Clarkson, 12523

Survey

Boundary

Lease

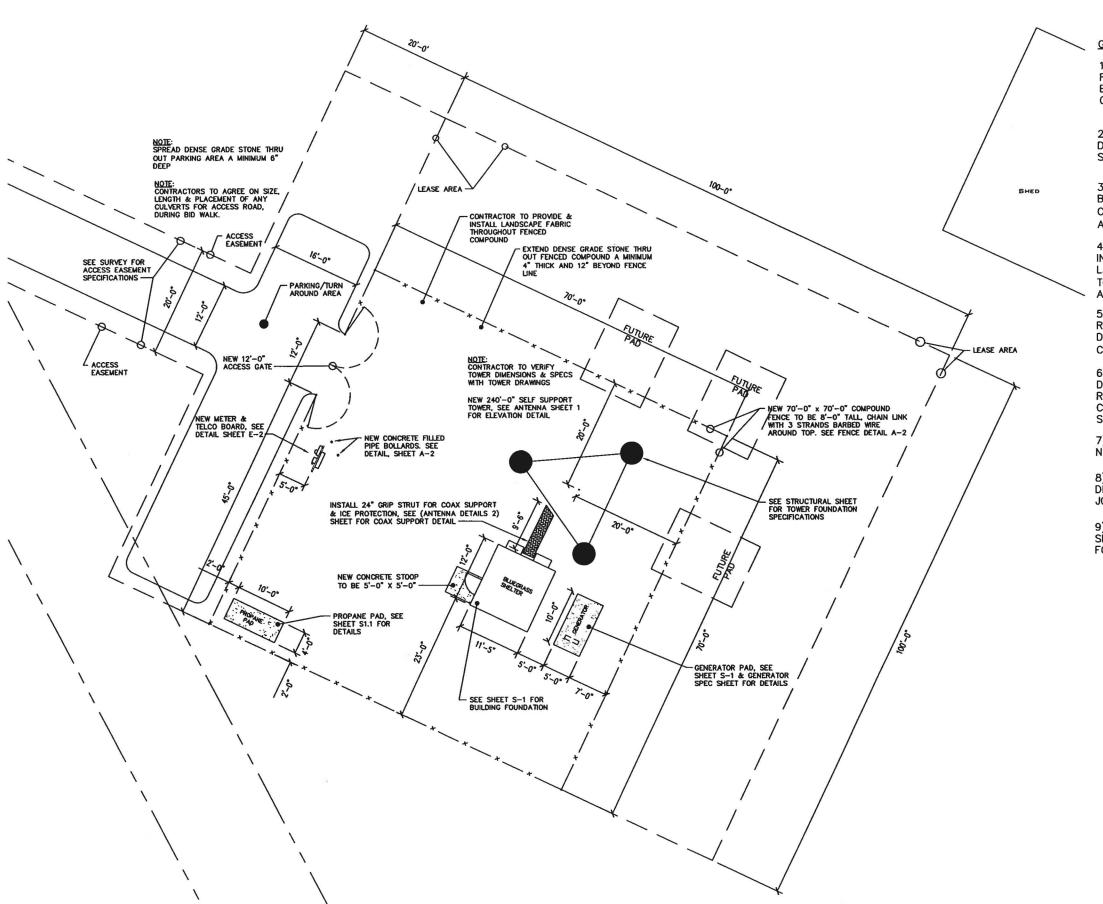
ellular 42701 O Elizabethtown, KY grass Road Ring D **Blu**6 2902 |

REVISIONS DATE

SHEET No.

of 1 SHEETS

FILE NAME wax.dwg



GENERAL NOTES:

- 1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTORS RESPONSIBILITY, INCLUDING CRANE SET, AND ALL COST INCURRED.
- 2) FOR, BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET \$1.1
- 3) ANY DAMAGE DUE TO CONSTRUCTION, TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION. (SUBJECT TO BLUEGRASS CELLULAR'S APPROVAL).
- 4) ANY DAMAGE OF NATURAL SURROUNDINGS, INCLUDING BUT NOT LIMITED TO, GRASS, TREES, LANDSCAPING, ETC.. TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT BLUEGRASS CELLULAR'S APPROVAL.
- 5) ROADWAYS TO BE GRADED SMOOTH AND EVEN, REMOVING ALL POTHOLES. ROADS TO HAVE PROPER DRAINAGE AND RUNOFF PER BLUEGRASS CELLULAR'S APPROVAL.
- 6) ANY RELOCATION OF EXISTING UTILITIES TO BE DONE IN ACCORDANCE WITH LOCAL CODES AND RECOMMENDATIONS, CONSULTING ALL UTILITY COMPANIES INVOLVED FOR APPROVAL AND SPECIFICATIONS REQUIRED.
- 7) FOR GRADING DETAILS, SEE GENERAL NOTESHEET
- 8) CONTRACTOR TO FIELD VERIFY ALL TOWER DIMENSIONS WITH TOWER MANUFACTURER PRIOR TO JOB BIDDING OR START OF ANY CONSTRUCTION
- 9) CONTRACTOR RESPONSIBLE FOR APPLYING FOR SERVICE TO SITE AND PAYING ANY FEES REQUIRED FOR PERMITS, HOOKUP, ETC..

SITE PLAN

SCALE: 16"= 1'-0"



REVISION			
NO. DATE			
NO.			100 CO 100 CO
			ı

BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE WAX 12523 PEONIA RD. CLARKSON, KY. 42726

DRAWN BY:

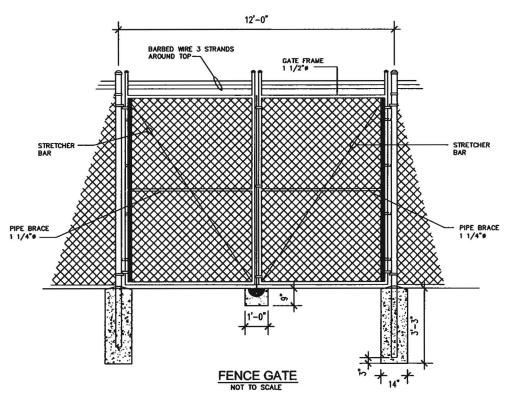
R. BECKER

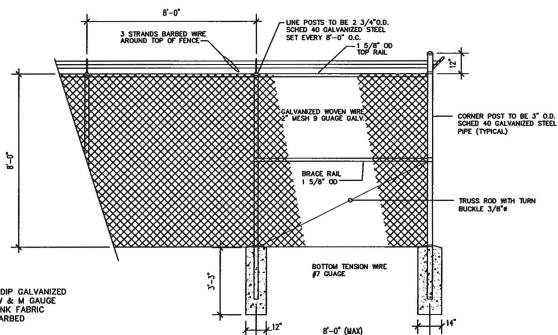
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2-21-19

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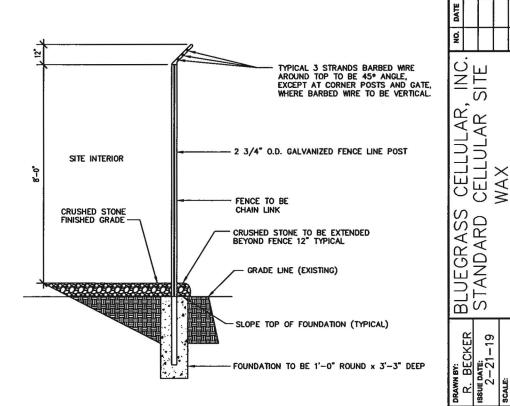
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NOT TO SCALE

CHAIN LINK FENCING NOTES:

ROAD DETAIL

- 1 FABRIC: THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED WIRE PICKETS HELICALLY WOUND AND INTERWOVEN FROM NO.9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CONTINUOUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A TWISTED AND BARBED
- <u>POSTS:</u> SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALMNIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3'-3"IN BELL SHAPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER.
- TOP RAIL: SHALL BE 1 5/8" O.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVRERAGING NOT LESS THAN 20". 3
- FABRIC TIES: FOR ATTACHING FABRIC TO LINE POST, TOP RAIL OR TOP WIRE, SHALL BE ALUMINUM STRIP OF WIRE OF APPROVED GUAGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12".
- EXTENSION ARMS: CAST STEEL GALVANIZED TO ACCOMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.

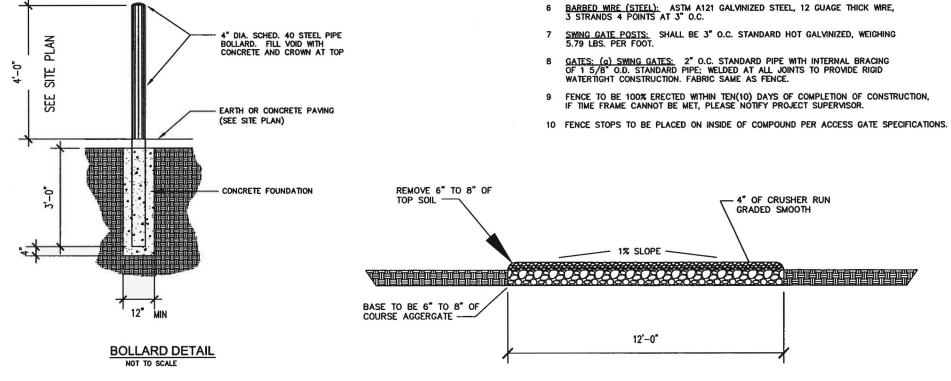


6

SHEET NUMBER

A-2





ALL LINES AND ANTENNAS TO BE PROPERLY MOUNTED TO TOWER OR STRUCTURE PER BLUEGRASS CELLULAR SPECIFICATIONS.

ALL GROUND BARS TO BE INSTALLED AND CAD WELDED TO GROUND FIELD (WHERE REQUIRED)

ALL COAX LINES TO BE GROUNDED AT THE TOP AND BASE OF STRUCTURE OR TOWER.

ALL COAX LINES TO BE GROUNDED AT ENTRANCE OF SHELTER/CABINET BEFORE WAVE GUIDE PORTS. (EXTERIOR OF BUILDING)

LINES ARE TO BE SECURED TO ICE BRIDGE

WAVE-GUIDE BOOTS ARE TO BE INSTALLED ON ALL LINES (BOTH INSIDE AND OUTSIDE, WHERE APPLICABLE)

ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED.

INVENTORY OF ALL MATERIAL IS TO BE DONE PRIOR TO INSTALLATION BY CONTRACTOR. (LIST WILL BE PROVIDED)

ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF.

GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS.

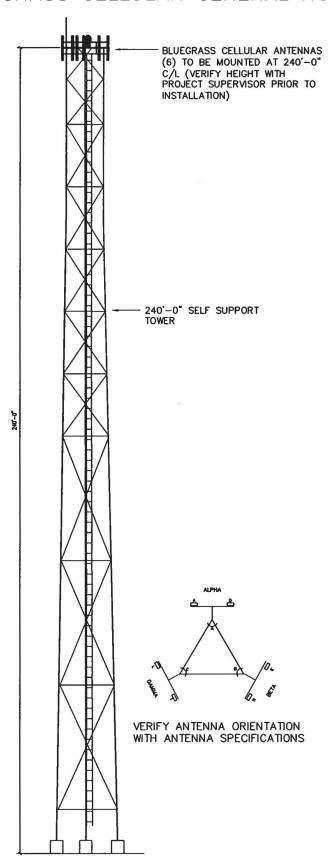
ALL ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

CONTRACTOR TO INSTALL GPS SYSTEM COMPLETE.
CONTRACTOR TO SUPPLY (1) 10' PIECE OF 1" RIGID
CONDUIT AND STRUT CLAMPS TO SUPPORT GPS ANTENNA.

CONTRACTOR TO STOP HARDLINES AT END OF ICE BRIDGE, INSTALL POLYPHASER AND RUN GROUND THROUGH REMOVABLE WEATHERPROOFING "CAN" TO GROUND BAR. BE SURE GROUND WIRE EXITS THE BOTTOM OF CAN. ROUTE JUMPER FROM POLYPHASER, DOWN TO CABINET SIDE ENTRY AND UP TO RADIOS. INSTALL 90 DEGREE CONNECTOR BETWEEN JUMPER AND RADIO.

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS



TOWER HEIGHT & TYPE

240' SELF SUPPORT TOWER

ANTENNA SPECS

	TYPE	SłZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	KATHREIN 800-10965		6	60*, 180*, 300*	240'-0" C/L VERIFY WITH CONSTRUCTION SUPERVISOR
RADIOS (1)	RRUS 2212 BC13		6	A, B, G	240'-0" C/L
RADIOS (2)	RRUS 2212 BC66		6	A, B, G	240'-0" C/L

ANTENNA MOUNTING HARDWARE SPECS

	TYPE	SIZE	NUMBER
MOUNT (PRIMARY)	MODEL RMQP-4126		1
MOUNT (SECONDARY)			

ANTENNA TRANSMISSION LINES SPECS

	TYPE	SIZE	NUMBER
TRANSMISSION LINE (PRIMARY)	(7) #8AWG	7/8"	1
TRANSMISSION LINE (SECONDARY)	(24) Fiber	1/2"	1

DISH SPECS

	MICROWAVE/DONOR	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1					

DISH MOUNT SPECS

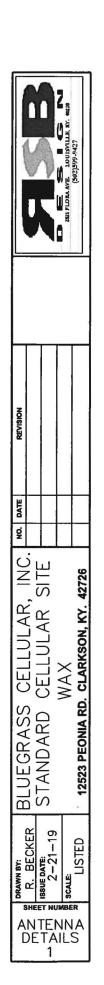
	TYPE	SIZE	NUMBER
MOUNT #1			
MOUNT #2			

DISH TRANSMISSION LINES

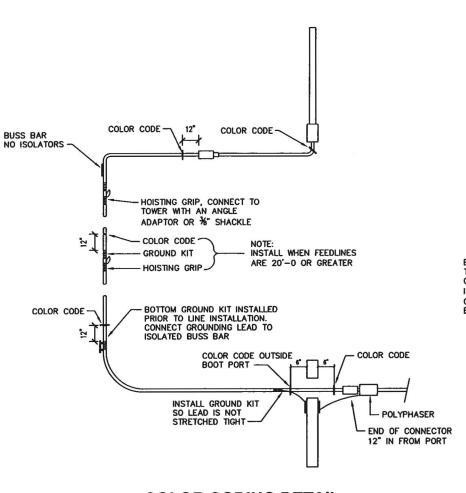
	TYPE	SIZE	NUMBER
TRANSMISSION LINE #1			
TRANSMISSION LINE #2			

ANTENNA SYNOPSIS

- * ANTENNAS TO HAVE A 2*E DOWNTILT
- * ANTENNAS TO HAVE A O*M
- * ANTENNA FREQUENCY 698.00 2690.00



SELF SUPPORT TOWER ELEVATION (TYPICAL)



COLOR CODING DETAIL

COLOR CODE DETAILS:

CDMA-NO COLOR OTHER THAN THE SECTOR DESIGNATORS
BCI LTE-ALWAYS 1 PURPLE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR

LRA LTE-ALWAYS HAS 1 ORANGE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS.

AWS—ALWAYS HAS 2 ORANGE BANDS AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS. AWS POWER AND FIBER TRUNK CABLES JUST HAVE 2 ORANGE BANDS WITH NO SECTOR DESIGNATOR COLORS SINCE ALL 3 SECTORS ARE IN TRUNK.

THE SECTOR DESIGNATOR COLORS ARE:

ALPHA 1-1 RED BAND

ALPHA 2-2 RED BANDS DELTA 1-3 RED BANDS

DELTA 2-4 RED BANDS

BETA 1-1 WHITE BAND

BETA 2 -2 WHITE BANDS

EPSILON1 -3 WHITE BANDS EPSILON 2-4 WHITE BANDS

GAMMA 1- 1 BLUE BAND

GAMMA 2- 2 BLUE BANDS

ZETA 1 - 3 BLUE BANDS ZETA 2 - 4 BLUE BANDS

BCI LTE (PURPLE BAND)

A DED A DUDDIE (ALDUA

1 RED 1 PURPLE (ALPHA 1 BCI LTE)

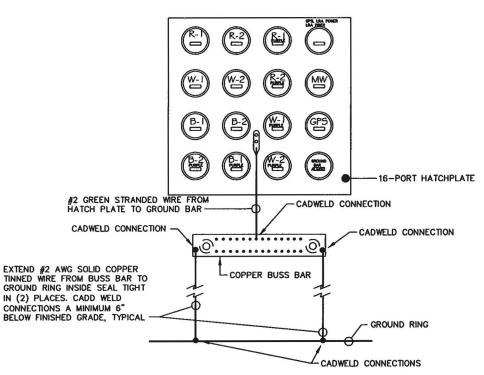
2 RED 1 PURPLE (ALPHA 2 BCI LTE)

1 WHITE 1 PURPLE (BETA 1 BCI LTE)

2 WHITE 1 PURPLE (BETA 2 BCI LTE)

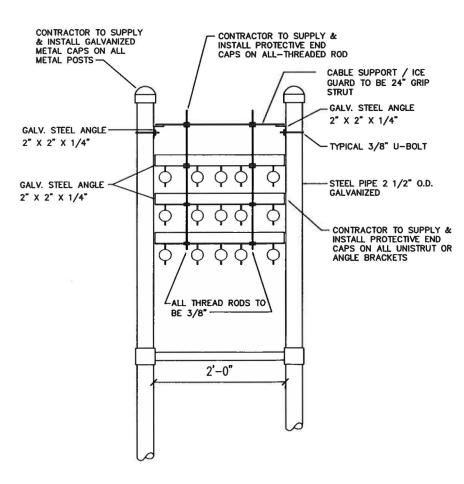
1 BLUE 1 PURPLE (GAMMA 1 BCI LTE)

2 BLUE 1 PURPLE (GAMMA 2 BCI LTE)



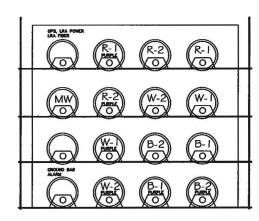
BOOT PORT GROUNDING DETAIL

NO SCALE

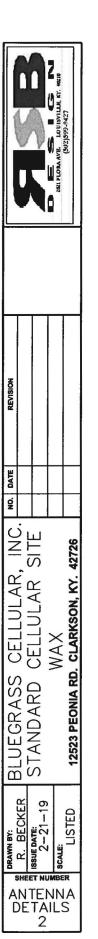


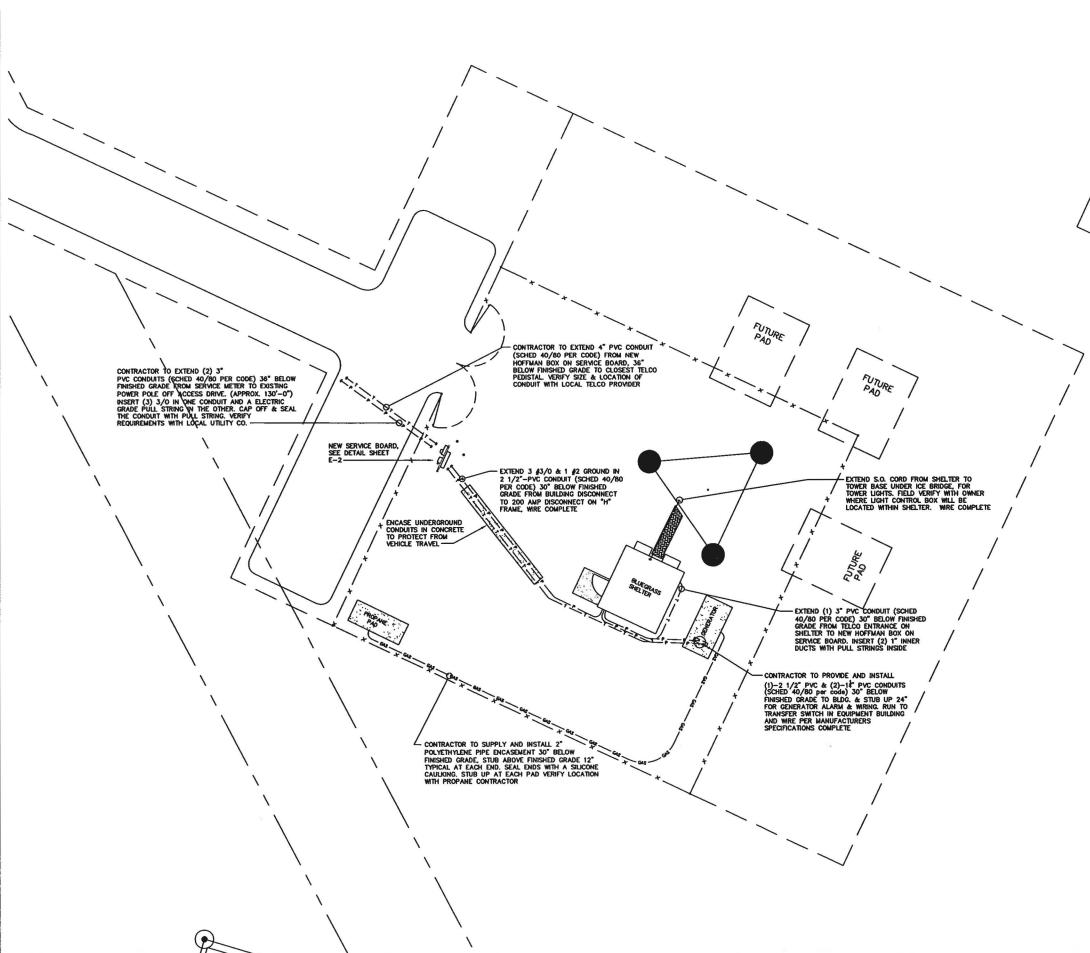
ICE BRIDGE / COAX SUPPORT DETAIL

NO SCALE



COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)





GENERAL ELECTRICAL NOTES:

- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
- 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
- 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.
- 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD ALL CONNECTIONS)
- 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
- 6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
- 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
- 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.
- 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.
- 10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.
- 11) IF CONDUIT RUNS BURIED LESS THAN REQUIRED DEPTHS, CONTACT BLUEGRASS CELLULAR FOR FURTHER INSTRUCTIONS

CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED 1'-0" ABOVE CONDUIT RUNS. (TAKE PICTURES)

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SITE PLAN- ELECTRICAL

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



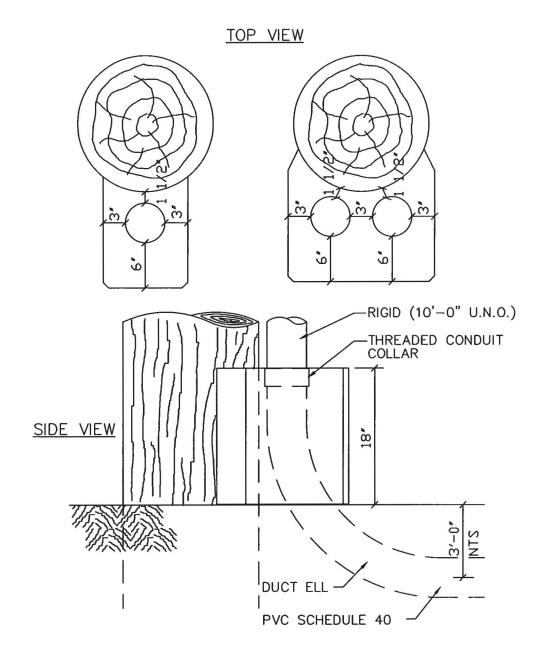
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STANDARD

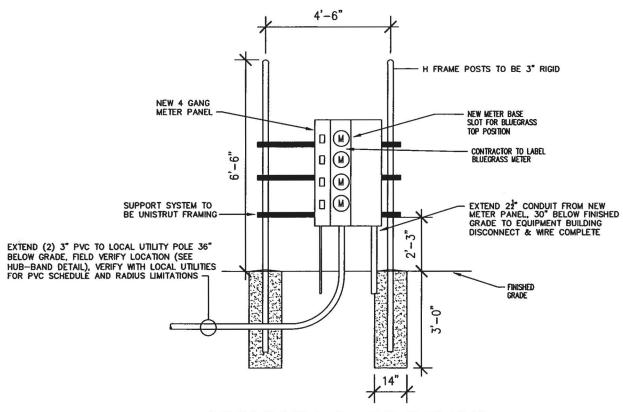
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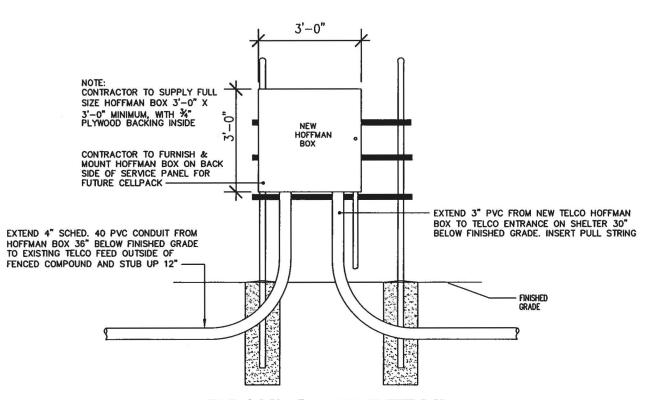
HUB-BAND DETAIL

NO SCALE



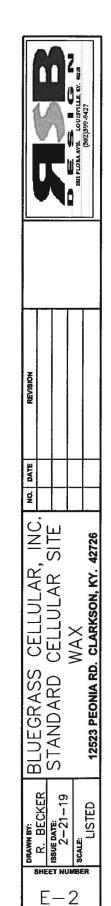
SERVICE BOARD DETAIL

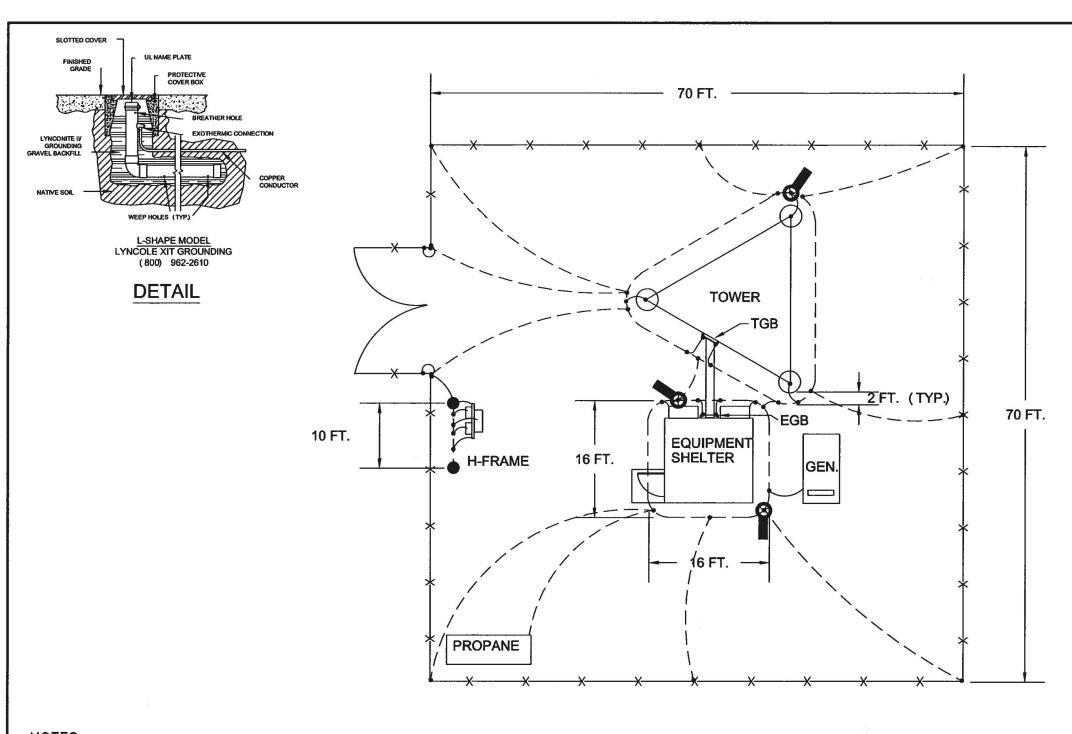
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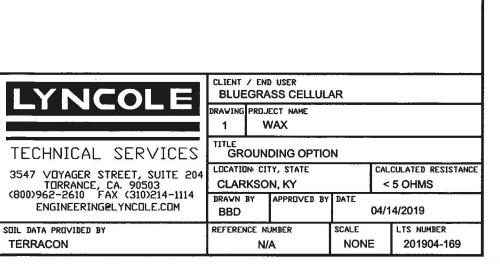


BACKBOARD DETAIL

NO SCALE







NOTES:

X CHAIN LINK FENCE

BARE #2 TINNED SOLID COPPER CONDUCTOR

BURIED 30 IN. BELOW GRADE OR 6 IN. BELOW FROST LINE

BARE #2 TINNED SOLID COPPER CONDUCTOR IN NON-METALLIC FLEXIBLE CONDUIT

ALL BENDS IN GROUND CONDUCTORS TO BE MADE

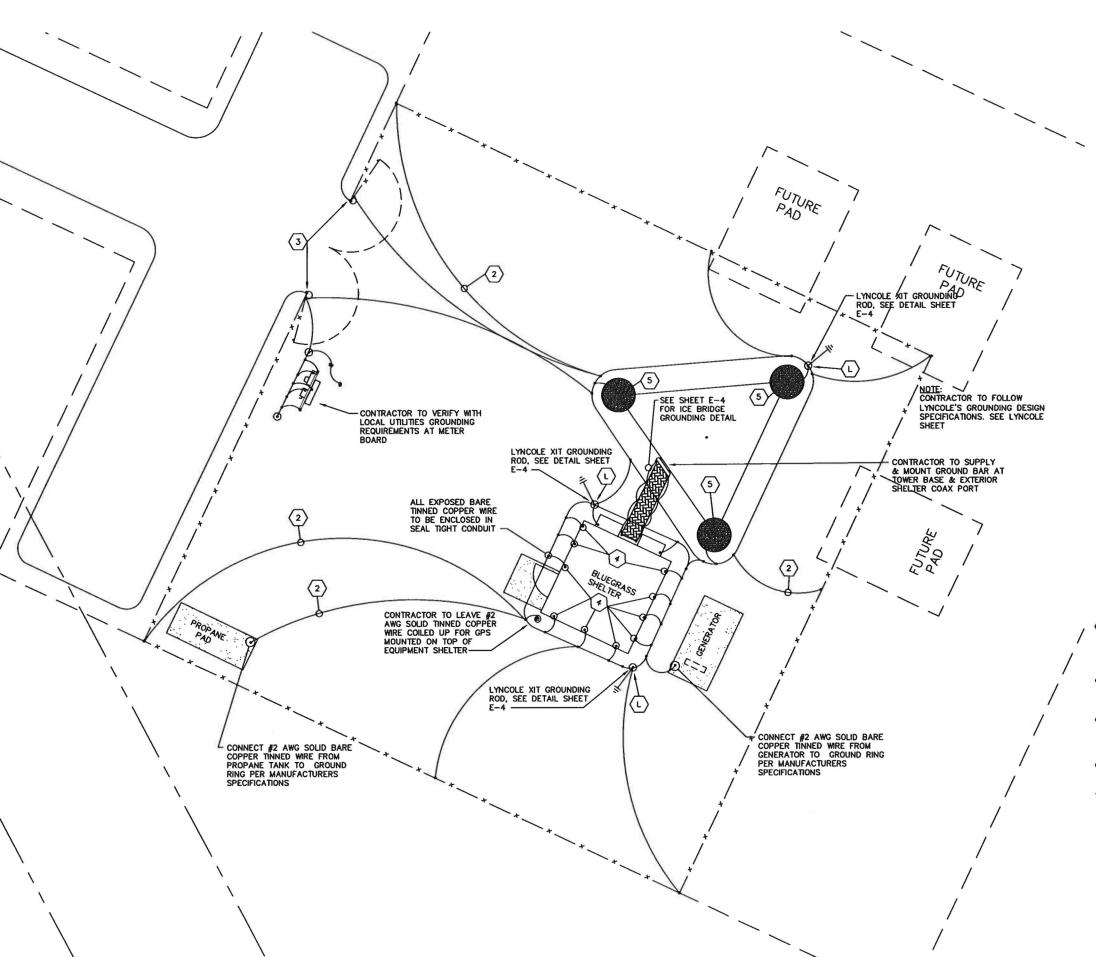
WITH 12 IN. RADIUS OR LARGER

K2L-10CS-24 (SEE DETAIL)

3/4 IN. X 10 FT. COPPER CLAD GROUND ROD

EXOTHERMIC WELD

GROUND BAR



GENERAL ELECTRICAL NOTES:

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

- 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO
- 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.
- 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD ALL CONNECTIONS)
- 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
- 6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
- 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
- 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.
- 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.
- 10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

POWER & TELCO TRENCHES, 12" ABOVE CONDUIT RUNS, BUT BELOW FINISHED GRADE.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLES GROUNDING
SPECIFICATIONS WHEN USING THEIR XIT GROUNDING
RODS. SEE DETAIL SHEET E-4.

- $\begin{picture}(10,0)\put(0,0){\line(10,0){10}}\put(0,0)$
- GROUNDING RODS 10'-0" LONG x 3/4" COPPER BONDED GROUND RODS
- (2) INSTALL AND PROVIDE SOLID BARE TINNED COPPER WRE #2 AWG, GROUND RING BELOW GRADE 30". USE #2 AWG SOLID BARE TINNED COPPER GROUND "TAP" CONNECTING CONDUCTORS. (CONNECTIONS FOR ALL TAP CONDUCTORS TO BE PARALLEL AND "CAD WELD" CONNECTIONS)
- (3) FLEXIBLE GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND CHAIN LINK FENCE, #2 AWG SOLID COPPER BARE TINNED CONDUCTOR FROM GROUND RING TO FENCE USING CAD WELD CONNECTIONS. GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO
- 4 BONDED GROUND TO BE PROVIDED TO GROUND RING FOR EACH OF THE FOLLOWING: BUILDING STEEL, HATCH PLATE, EMERGENCY RECEPTACLE, WAVE GUIDE STRUCTURE, FRAME WORK, BUILDING DISCONNECT.
- (5) FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT TO "CAD WELD" TO AND CLEAN. #2 AWG SOULD BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-O" ABOVE FOUNDATION OR AT FLANSE IF PROVIDED BY TOWER MANUFACTURER. EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED ALL BENDS TO BE SWEEPING.

SITE PLAN-GROUNDING

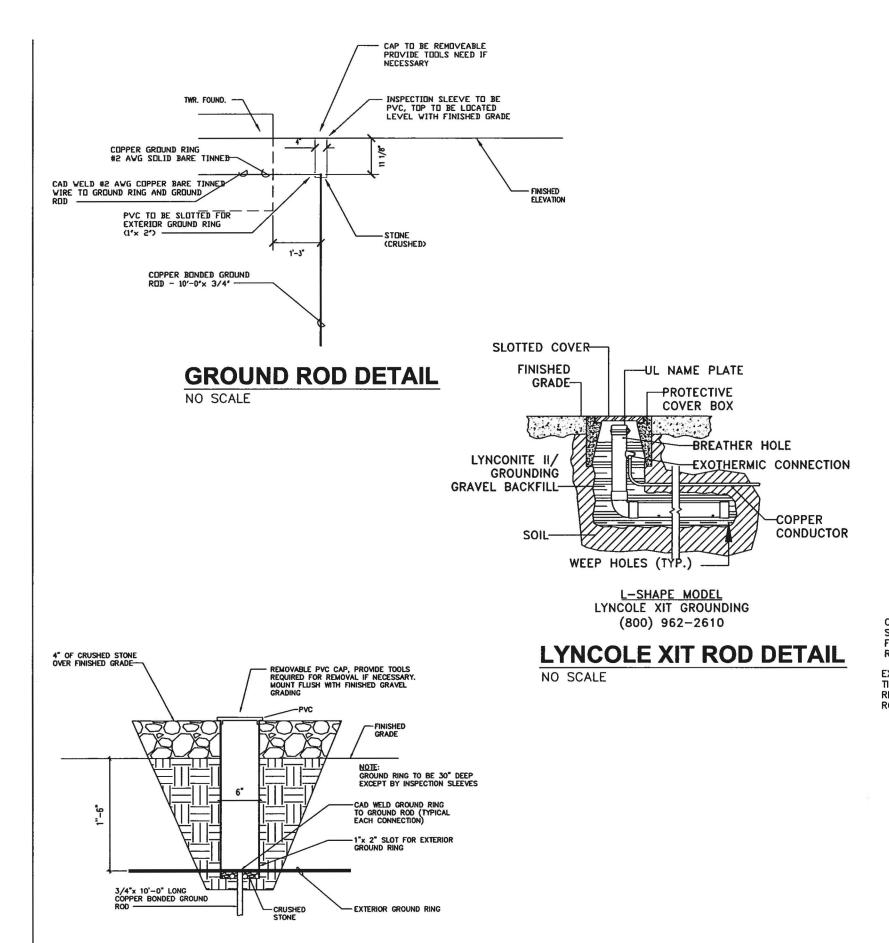
SCALE: 3/32" = 1'-0"



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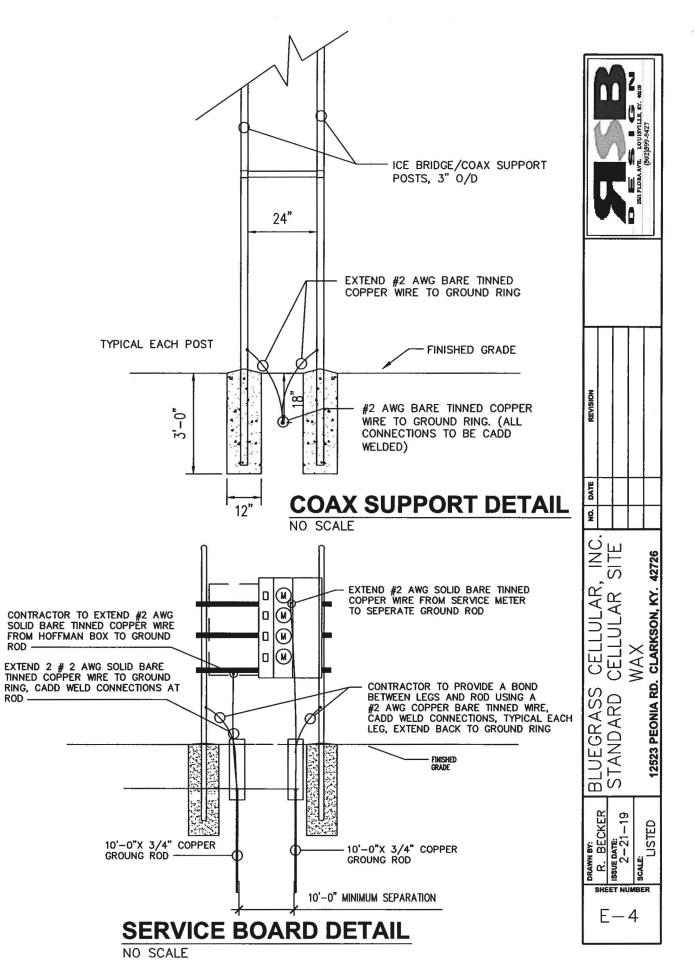
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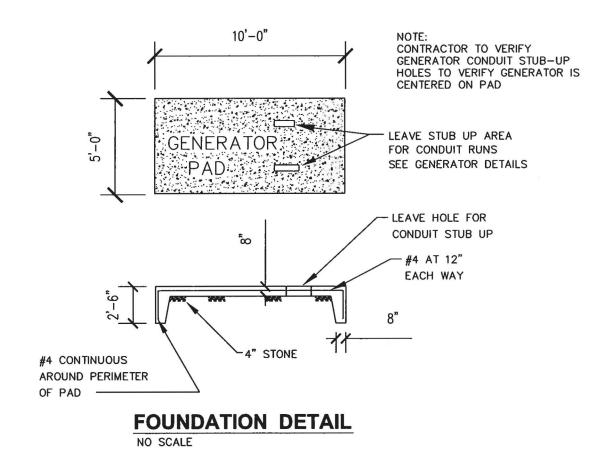
> SHEET NUMBER E-3

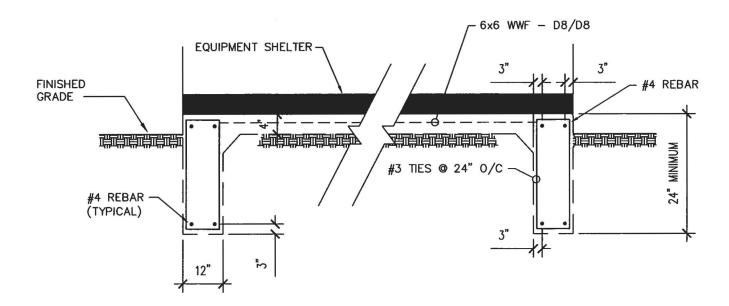


GROUND SLEEVE DETAIL

NO SCALE

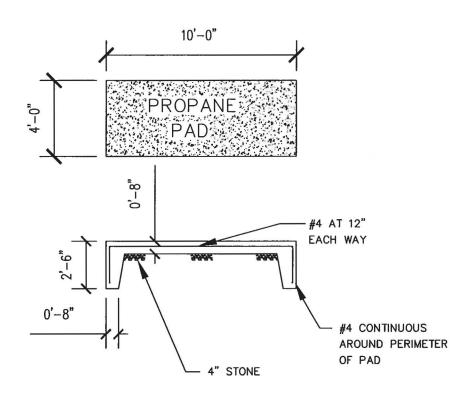




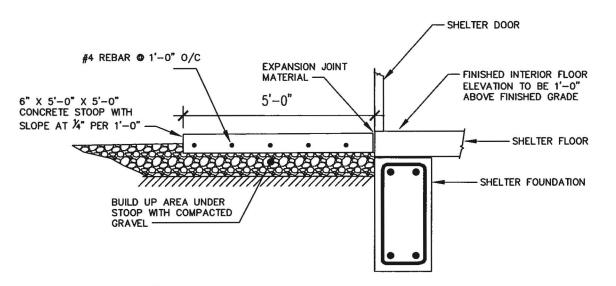


SHELTER FOUNDATION PLAN

NO SCALE

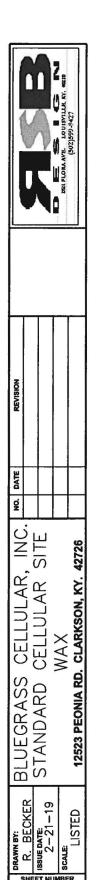


FOUNDATION DETAIL NO SCALE

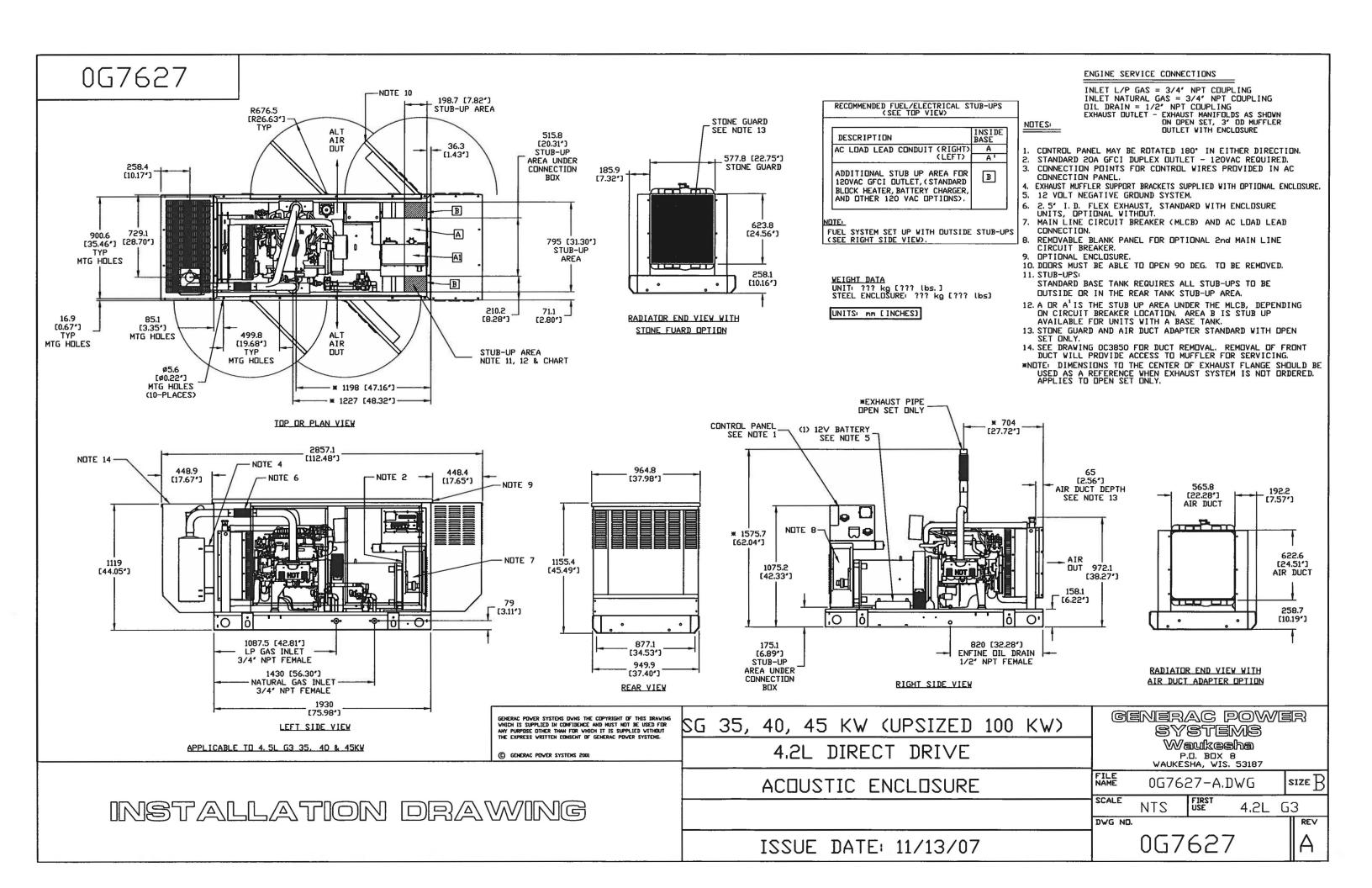


CONCRETE STOOP DETAIL

NO SCALE



S-1



GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP DELIVERY TO SITE, ERECTION OF TOWER, AND CRANE SET, ALL COSTS INCURRED.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REVIEWING EXISTING STRUCTURES OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT COULD INTERFERE.
- 3) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LOCAL AUTHORITIES NECESSARY FOR INSPECTIONS IF REQUIRED, PLEASE PROVIDE AMPLE NOTICE.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PERSONS RESPONSIBLE FOR ANY MATERIALS TESTING, PLEASE PROVIDE AMPLE NOTICE.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH FINAL TEST RESULTS ON ALL MATERIALS TESTING. IF ANY PROBLEMS ARE FOUND PRIOR TO FINAL RESULTS PLEASE NOTIFY A&E OR OWNER IMMEDIATELY.
- 6) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJOINING PROPERTY, AND REPAIRING OR REPLACING WHAT IS NECESSARY TO OWNERS APPROVAL.
- 7) THE CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE PRIOR TO CONSTRUCTION STARTING, ANY PROBLEMS OR CHANGE FOUND CONTACT A&E OR OWNER TO VERIFY.
- 8) THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY LIGHTING ON THE TOWER AND CONTACTING PROPER AUTHORITIES IF ANY LIGHTING PROBLEMS OCCUR, ALL FINAL LIGHTING TO BE MOUNTED ON TOWER DURING CONSTRUCTION, NOTIFY OWNER WHEN TOWER HAS REACHED FINAL HEIGHT.
- 9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS.
- 10) CONTRACTOR, ANY CONTRACTOR EMPLOYEES OR REPRESENTATIVES, OR SUB—CONTRACTOR, ANY SUB—CONTRACTOR EMPLOYEES OR REPRESENTATIVES, WILL CONFORM TO ALL LAWS AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, INCLUDING BUT NOT LIMITED TO, ALL OCCUPATIONAL SAFETY AND HEALTH ACT ("OSHA") STATUTES AND REGULATIONS AS WELL AS ALL OTHER FEDERAL, STATE AND/OR LOCAL LAWS OR REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED BY CONTRACTOR.
- 11) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SITE DRAINAGE, AND PROVIDING SILT AND EROSION CONTROL NECESSARY TO MAINTAIN ANY RUN OFF.
- 12) THE CONTRACTOR IS RESPONSIBLE FOR ALL SEED AND STRAW WORK NECESSARY TO REPAIR DAMAGED AREAS.
- 13) CONTRACTOR TO GRADE SMOOTH OR REPAIR ANY POT HOLES OR DITCHING ON PROPERTY OR ROAD THAT HAS OCCURRED DURING CONSTRUCTION AT CONTRACTORS EXPENSE.
- 14) CONTRACTOR'S RESPONSIBILITIES REGARDING BUILD OUT ON FIBREBOND EQUIPMENT SHELTERS TO INCLUDE:
- * INSTALLING THE DOOR CANOPY
- * INSTALLING EXTERIOR LIGHT ON WALL DETERMINED BY PROJECT SUPERVISOR AND PHOTOCELL REQUIREMENTS
- * INSTALLING INTRUDER ALARMS
- * CHECK OPERATIONS OF DOOR AND DOOR HARDWARE
- * ADJUST WEATHERSTRIPPING ON DOORS AS NEEDED
- * INSPECT ROOF FOR DAMAGE AND POSSIBLE LEAKS
- * INSPECT INTERIOR FINISH FOR IMPERFECTIONS AND REPAIR AS NEEDED
- * CHECK OPERATION OF LIGHTS AND ELECTRICAL OUTLETS
- * CHECK OPERATION OF INTAKE AND EXHAUST LOUVERS AND ADJUST AS NEEDED
- * CHECK OPERATION OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
- * INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH
- 15) INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, GENERATOR PAD.
- 16) INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.

- 17) GC WILL BE RESPONSIBLE FOR ALL CRANE OPERATIONS IN ORDER TO SET FIBREBOND BUILDING. COORDINATE BUILDING DELIVERY DATE THROUGH BLUEGRASS CELLULAR.
- 18) GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE.
- 19) GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS.
- 20) GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE RRIDGE
- 21) GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY AND HOOK-UP. PREFERRED SUPPLIERS ARE EMPIRE & AMERIGAS
- 22) GC WILL BE RESPONSIBLE FOR COORDINATING THE CLEANING OF THE INSIDE OF THE BUILDING WITH THE PROJECT SUPERVISOR AFTER THE SITE HAS BEEN TURNED OVER TO THE OPERATIONS DEPARTMENT AND ALL TURN-UP PROCEDURES HAVE BEEN COMPLETED. THIS WILL INCLUDE SUPPLYING A 30 GALLON TRASHCAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DOORMAT FOR BUILDING.
- 23) GC TO VERIFY ALL BLUEGRASS CELLULAR EQUIPMENT DIMENSIONS & SPECIFICATIONS WITH MANUFACTURER'S DRAWINGS, (FIBREBOND, GENERAC, EASTPOINTE ETC.) PRIOR TO CONSTRUCTION. ADDRESS ANY ISSUES WITH PROJECT SUPERVISOR BEFORE WORK BEGINS.
- 24) ALL WAREHOUSE MATERIAL (LINES, ANTENNAS, MOUNTING HARDWARE, GENERATOR, TOWER FOUNDATION KIT, ETC.) WILL NEED TO BE PICKED UP BY GC.
- 25) GC WLL BE RESPONSIBLE FOR SCHEDULING GENERATOR START-UP WITH CONTACT SCOTT ANDERSON (EVAPAR) 502-267-6315
- 26) T1 CONDUIT WILL NEED TO BE PLACED FROM POLE TO BUILDING. (IF A MICROWAVE DISH IS USED, THE T1 CONDUIT WILL STILL BE INSTALLED FOR FUTURE USE.)
- 27) GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.
- 28) ALL TRASH AND DEBRIS TO BE REMOVED BY GC
- 29) GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND PAYING NECESSARY FEES REQUIRED.
- 30) GC WILL BE RESPONSIBLE FOR SUPPLYING & INSTALLING PROTECTIVE END CAPS ON ANY EXPOSED THREADED ROD OR UNISTRUT USED ON SITE. VERIFY TYPE WITH PROJECT SUPERVISOR PRIOR TO INSTALLATION.
- 31) GC WILL BE RESPONSIBLE FOR HAVING A CERTIFIED ELECTRICIAN HOOK UP THE BATTERIES (IMMEDIATELY) AFTER POWER HAS BEEN TURNED UP AT THE SITE, PREVENTING THE DELAY OF ANY WORK FOR OPERATIONS. THE GENERAL CONTRACTOR MUST NOTIFY THE PROJECT SUPERVISOR IMMEDIATELY AT THIS TIME SO HE CAN COORDINATE A CELL TECH TO BE ONSITE WHEN THIS OCCURS.
- 32) GC WILL BE RESPONSIBLE FOR RUNNING (CAT5) FROM THE GENERATOR ALARM PANEL MOUNTED ON THE SIDE OF THE TRANSFER SWITCH (BY THE CONTRACTOR), THROUGH THE TRANSFER SWITCH AND UP TO THE EXISTING CONDUIT BESIDE THE A/C POWER FAIL RELAY. THE (CAT5) WILL BE PULLED THROUGH EXISTING CONDUIT AROUND THE SHELTER AND EXTENDED TO THE ALARM BLOCK. THERE SHOULD BE A MINIMUM 3'-0" OF (CAT5) LEFT HANGING ON EACH END FOR THE CELL TECH TO HOOK UP THE GENERATOR ALARMS.
- 33) GC MUST SUBMIT A COPY OF THE BUILDING PERMIT AND CONSTRUCTION SCHEDULE TO THE PROJECT SUPERVISOR PRIOR TO RECEIVING (NTP) TO BEGIN CONSTRUCTION (NO EXCEPTIONS).
- 34) GC MUST DISPLAY FCC TOWER REGISTRATION NUMBER AND EMERGENCY PHONE NUMBERS ON 3'-0 X 4'-0" MINIMUM WOODEN BACKBOARD SOMEWHERE ON SITE LOCATION PRIOR TO BREAKING EPOLIND

GRADING & EXCAVATING NOTES:

- 1) ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, ROADS AND PARKING AREAS TO BE REPAIRED OR REPLACED TO OWNERS SATISFACTION.
- 2) PREPARATION FOR FILL:
 REMOVAL OF ALL DEBRIS, WET AND UNSATISFACTORY SOIL
 MATERIALS, TOPSOIL, VEGETATION, AND HARMFUL MATERIALS
 FROM SURFACE OF GROUND PRIOR TO PLOWING, STRIPPING,
 PLACING FILLS OR BREAKING UP OF SLOPED SURFACES
 GREATER THAN 1 VERTICAL TO 4 HORIZONTAL SO MATERIAL
 FOR FILL WILL BOND TO EXISTING SURFACE. WHEN
 AREA TO RECEIVE FILL HAS A DENSITY LESS THAN
 REQUIRED, BREAK UP GROUND SURFACE TO DEPTH
 REQUIRED, AERATE, MOISTURE CONDITION, OR PULVERIZE
 SOIL AND RECOMPACT TO REQUIRED DENSITY.
- 3) BACK FILLING:

 EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM DIAMETER
- SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% PROCTOR IN GRASSED / LANDSCAPED AREAS WHERE
- SHALL BE APPROVED MATERIALS CONSISTING OF SANDY CLAY, GRAVEL AND SAND, SOFT SHALE, EARTH OR LOAM. CONSULT WITH OWNER PRIOR TO FILL BEING ADDED.
- 4) ALL MATERIAL FOR FILL TO BE APPROVED BY OWNER AND ALL COMPACTING TEST TO BE COMPLETED TO SPEC'S ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER.
- 5) AFTER COMPLETION OF BELOW GRADE EXCAVATING, AREA TO BE CLEANED AND CLEARED OF ANY UNSUITABLE MATERIALS, SUCH AS TRASH, DEBRIS, VEGETATION AND SO FORTH.
- 6) ANY EXCAVATING IN WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE OF ANY LOOSE MATERIAL AND EXCESS GROUND WATER.
- 7) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION TO BE FILLED WITH THE SAME QUALITY CONCRETE SPECIFIED FOR THE FOUNDATION. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.
- 8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH. FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.
- 9) EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.
- SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL (CROWNED FORMATION)
- 11) GC WILL BE RESPONSIBLE FOR REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION. (EXCAVATING ISSUES)

"CALL BEFORE YOU DIG"

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 811 IN KENTUCKY, WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE © 12 INCHES BELOW GRADE.

SYMBOLS LEGEND

KEYNOTE
INSPEC. SLEEVE / GRND F
INSPECTION SLEEVE
CAD WELD CONNECTION
TRANSFORMER
LIGHTNING SUPPRESSOR
SWITCH (DISCONNECT)
METER PACK
POWER
GAS LINE
WATER LINE
SANITARY SEWER
TELEPHONE
STORM SEWER DRAIN

FENCE



RASS CELLULAR, INC. NOTARD CELLULAR SITE

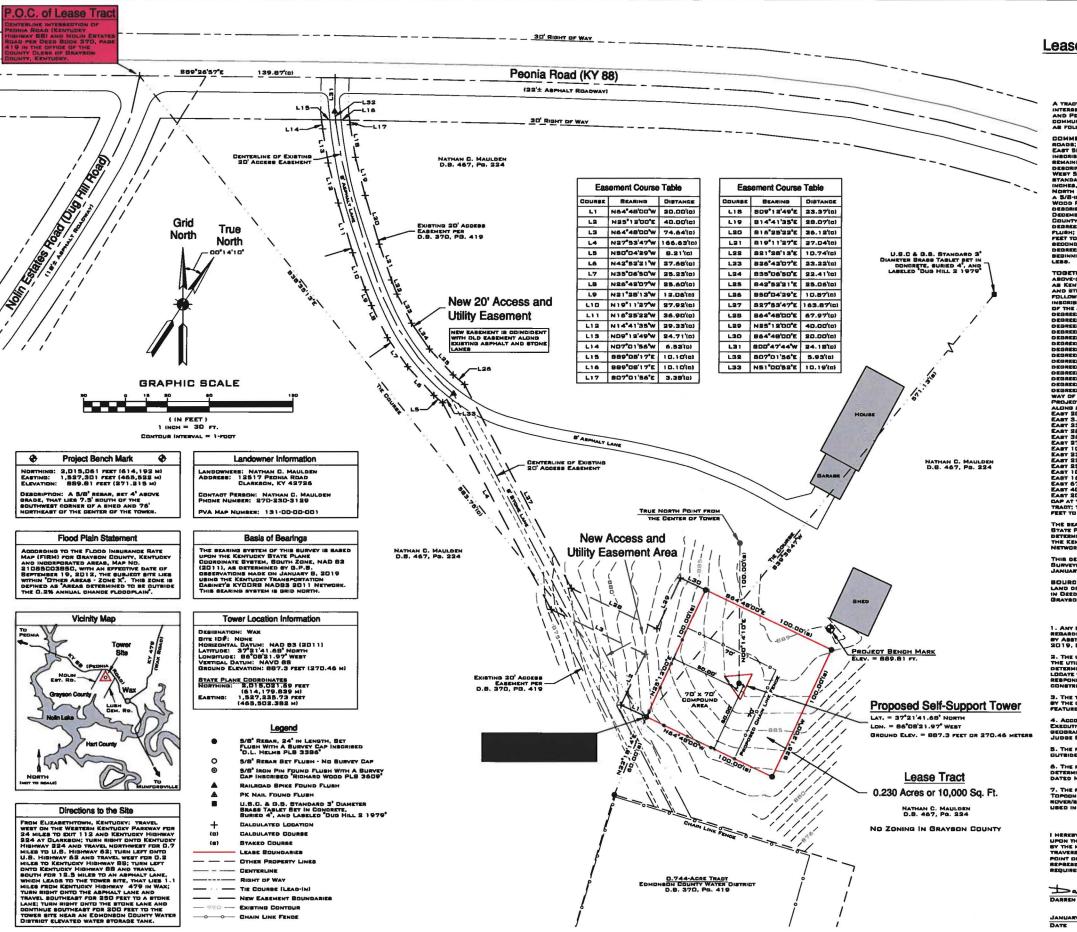
150

ANI

PRAWN 87:
R. BECKER
BISSUE DATE:
2-21-19
SCALE:
LICTED

General Notes

SHEET NUMBER



SITE: WAX

Lease Boundary and Topographic Survey Grayson County, Kentucky

Lease Boundary and Easement Description

A TRACT OF LAND THAT IS LOCATED SOO! FEET SOUTHEASTERLY OF THE INTERECTION OF NOLIN ESTATES ROAD (ALEG KNOWN AS DUS HILL ROAD) AND PEOIN ROAD (SOLD KNOWN AS KENTUCKY HISHMAY 88) IN THE WAX DOMININTY OF BRAYSON COUNTY, KENTUCKY; SAID TRACT SEING DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE CENTERLINES OF SAID

CAS FOLLOWS:

ODMERNOING AT THE INTERSECTION OF THE CENTERLINES OF SAID

SEASE; THENDER GOUTH 3B DEBRIESE 3B MINUTES 13 SECONDS

EAST 583.75 FERT TO A EVENION RESAR SET FLUSH WITH A SURVEY CAP
INSCRISEO, "D.L. HELIM PLS 3385 (SEPERRED TO AS A RESAR IN THE
REMAINDER OF THIS DESCRIPTION) AT THE POINT OF SEGININING OF THIS

DESCRIPTION (SAID RESAR LIES SOUTH 39 OEDSREE 35 MINUTES 47 SECONDS

WEST 571.13 FERF FROM A UNITED STATES COAST AND SECONDS

WEST 571.13 FERF FROM A UNITED STATES COAST AND SECONDS

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OF OFFICE TO SHOW A UNITED STATES COAST AND SECONDS

OFFICE TO THE FORM A UNITED STATES COAST AND SECONDS

OFFICE TO THE COMMON COLORY WATER DISTRICT ON

DESCRIPTION OF THE COMMON COLORY WATER DISTRICT ON

DESCRIPTION SECONDS WAS ON DELIVEY, KENTUCKY, THENDE NORTH 25

OCCURRED A SEAS SET FLUSH; THENDE SOUTH 25 DEGREES 12 MINUTES OU

SECONDS WEST 100.00 FERT TO A REASK SET FLUSH; THENDE NORTH 64

DECIMANDS AND CONTAINING 0.230 CARES 110.00 EQUARE TOT, MORE OR

ECSIMANDS AND CONTAINING 0.230 CARES 110.00 EQUARE TOT, MORE OR

TOUGHT OF THE FORM A UNITED SOUTH AND DECEMENT OF THE POINT OF SECONDS AND CONTAINED 0.200 CARES 110.00 EQUARE TOT, MORE OR

ECSIMANDS AND CONTAINING 0.230 CARES 110.00 EQUARE TOT, MORE OR

TOUGHT OF THE FORM A UNITED SOUTH AND DECEMENT OF THE FORM O

SEGINAING AND CONTAINING D. 23D AGRES (10,000 SQUARE FEET), MORE OR LESS.

TODETHER WITH AN ADDESS AND UTILITY EASEMENT FROM THE ABOVE-OSCIORIRED D. 23D-AGRE LEARS TRADT TO FORMA SIGN GLAD KNOWN AS KENTUDKY HIGHWAY 88); SAID EASEMENT FOLLOWS AN EXISTING ALBEMENT AND STOME LANK FOR MOST OF 17S LEASTH, AND STOME AS YELLOWS: SEGINNING AT A 57S-INCH REARS SET FILLIS WITH A SUVEY CAPEDO THE ABOVE-OSCIORISM OF 18S JOSCIANO SEGINATION OF 18S JOSCIANOS SEGI

THE BEARING SYSTEM OF THIS DESCRIPTION IS EASED UPON THE KENTUDKY SYATE PLANE DODGENARIE SYSTEM, SOUTH ZONE, NAO 83 (8011), AS DETERMINED BY G.P.S. DESERVATIONS MADE ON JANUARY S. 2019 USING THE KENTUCKY TRANSPORTATION CASINET'S KYCORB NADSS 2011 NETWORK. THIS EXAMINE SYSTEM IS GRID NORTH.

THIS DESCRIPTION IS EASED UPON A SURVEY COMPLETED BY LANDMARK BUNNEYING CO., INC. AND CERTIFIED BY DARREN L. HELMS, P.L.S. 3386, JANUARY 24, 2019.

BOURDE OF TITLE: BEING A PORTION OF AND LYING ENTIRELY WITHIN THE LAND DESCRIBED IN DEED TO NATIANN C. MAULDEN ON FEBRUARY 28, 2018 IN DEED BOOK 457, PASE 234 IN THE OFFICE OF THE COUNTY CLERK OF GRAYBON COUNTY, KENTURKY.

Note

 Any englinerandes and landowner information betwen hereon, recarbing the subject tract, are sared upon a title search comple sy Abstracts & Titles, Inc. of Louisville, Kentucky, Dated January 2019, Exam No. 238171.

2. THE UTILITIES SHOWN ON THIS PLAY MAY DR MAY NOT REPRESENT ALL OF THE UTILITIES LODATED AY THE SUBJECT SITS. THE PRESENCE OF UTILITIES WAS DETERMINED BY A VISIAL INSPECTION OF THE PROPERTY SUBTACE. NO UTILITY LODATE WAS CALLED IN PRIOR TO THIS SUBVEY. IT SHALL SET THE REPROMISSIONLY OF THE CONTRACTOR TO LODATE UTILITIES PRIOR TO

3. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAT IS AS REQUESTE SY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.

4. ACCORDING TO THE OFFICE OF MR. KEYIN MENDERSON, COUNTY JUDGE EXCOUTIVE OF GRAYBON COUNTY, NO LOCAL PLANNING UNIT EVESTS WHICH MAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVES CIFICE MAY BE CONTACTED AT 270-259-3159.

5. THE PROPOSED LOCATION OF THE WAX TOWER SITE WILL SE LOCATED CITY.

6. THE RIGHT OF WAY OF PEDINA ROAD (KENTUCKY HISHWAY 98) WAS DETERMINED FROM THE PLANS OF STATE PROJECT NO. 617, SECTION 8-9, DATEO NOVEMER 17, 1933.

7. THE FOLLOWING EQUIPMENT WAS USED TO COMPLETE THIS SURVEY: (1) TOPGON DS-3 ROBOTIC TOTAL STATION AND (2) TOPGON HIPER II NETWORK ROVER/SASE-ROVER DUAL FREQUENCY GPS SYSTEM. THE GPS SYSTEM WAS USED IN THE RTK MODE.

Certificati

I MEREBY CERTIFY THAT THIS PLAT HAS SEEN COMPILED FROM A SURVEY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON JANUARY 16, 2019 BY THE METHOD OF REAL THE KINEWANTO GPS SURVEY AND A RANDOM TRAVERSE WITH SIDERMOTS. THE RELATIVE POSITIONAL ACQUIRACY OF ANY POINT ON THIS SURVEY IS SETTIFE THAN ± 0.10 FEET ± 200 PPM. THIS PLAT REPRESENTS A RURAL SOUNDARY GURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 18:190.

DARREN L. HELMB, P.L.B. 3386

JANUARY 24, 2019



LANDMARK SURVEYING CO., INC.
15 N.E. 340 STREET
WARRINGTON, INDIANA 47301
(812) 257-0950
WESSITE: LANDMARKSURVEYINGDD, DOM

12523 Peonia Road Clarkson, Kentucky 42726

Survey

Boundary

Bluegrass Cellular 2902 Ring Road Elizabethtown, KY 42701

REVISIONS DATE

SECRET NO.

1

Of 1 SHEETS

FILE NAME

gwb.xsw

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF KENTUCKY RSA #3)
CELLULAR GENERAL PARTNERSHIP FOR)
APPROVAL TO CONSTRUCT AND OPERATE A NEW) CASE No. 2019-00042
CELL FACILITY TO PROVIDE CELLULAR RADIO)
SERVICE (WAX) IN RURAL SERVICE AREA #3)
(GRAYSON COUNTY) OF THE COMMONWEALTH)
OF KENTUCKY)

AFFIDAVIT OF FELIX H. SHARPE

- I, Felix H. Sharpe, being duly sworn, depose and state as follows:
- 1. My name is Felix H. Sharpe and I am a member of the Kentucky Bar Association. I am legal counsel to Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular and am submitting this affidavit in conjunction with the above referenced matter.
- 2. In order to demonstrate compliance with 807 KAR 5:063 §1(1)(1) & (m), Exhibit 1 identifies, with the exception of the individual identified in paragraph 4, 5, & 6, the names of the residents/tenants and property owners within 500 feet of the proposed tower who have been:

 (i) notified by written notice of the proposed construction, sufficient postage prepaid, by United States Certified Mail, return receipt requested; (ii) given the Commission docket number under which the application will be processed; and (iii) informed of the right to request intervention.
- 3. Attached as Exhibit 2 is a copy of the United States <u>Certified Mail</u> return receipt requested that demonstrates proof of service of the written notice of the proposed construction upon: (1) Sheila K. Utz; (2) Gail Lush, Houston Lush, Linda Lush and James H. Lush; (3) Houston and Mabeline Lush; (4) Edmonson County Water District; (5) Marjorie Darlene Childress; (6) Thomas and Nancy Milas; (7) Rick and Sharon Hiser c/o Chad K. and Daniel E.

- Peyton; (8) Kirk Cummings; (9) Domingo and Venita L. Laracuente; (10) James and Cynthia Sturgeon; and (11) Richard Dale and Judy C. Yocum.
- 4. Service of the written notice of the proposed construction was attempted upon James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce, (see Exhibit 1) via United States Certified Mail pursuant to 807 KAR 5:063 §1(1)(1) & (m). James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce were not served with a copy of the written notice of the proposed construction via United States Certified Mail. Therefore, another copy of the written notice of the proposed construction was sent to James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce via Federal Express and United States First Class Mail. James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce were served via Federal Express on March 22, 2019 (See Exhibit 3).
- 5. Service of the written notice of the proposed construction was attempted upon Nathan C. Maulden, (see Exhibit 1) via United States Certified Mail pursuant to 807 KAR 5:063 §1(1)(1) & (m). Nathan C. Maulden was not served with a copy of the written notice of the proposed construction via United States Certified Mail. Therefore, another copy of the written notice of the proposed construction was sent to Nathan C. Maulden via Federal Express and United States First Class Mail. Nathan C. Maulden was served via Federal Express on March 22, 2019 (See Exhibit 4).
- 6. Service of the written notice of the proposed construction was attempted upon Edward H. and Mable Lush, (see Exhibit 1) via United States <u>Certified Mail</u> pursuant to 807 KAR 5:063 §1(1)(1) & (m). Edward H. and Mable Lush were not served with a copy of the written notice of the proposed construction via United States <u>Certified Mail</u>. Therefore, another copy of the written notice of the proposed construction was sent to Edward H. and Mable Lush

via Federal Express and United States <u>First Class Mail</u> . Edward H. and Mable Lush were served
via Federal Express on February 22, 2019 (See Exhibit 5).
Further Affiant saith not.
Felix H. Sharpe
COMMONWEALTH OF KENTUCKY SS:
COUNTY OF JEFFERSON)
SUBSCRIBED AND SWORN to before me this 3 day of May, 2019
My commission expires:
Notary Public 7

14804777v1

LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET · WASHINGTON, INDIANA 47501

PHONE: 812.257.0950 · WEBSITE: WWW.LANDMARKSURVEYINGCO.COM

DARREN L. HELMS, P.S., PRESIDENT

DENNIS N. HELMS, P.S., CPESC, VICE-PRESIDENT



Landowner and Adjacent Landowner List

Wax Site

Shelia K. Utz 453 Lock Road Butler, KY 41006

Edward H. and Mable Lush 13587 Peonia Road, Unit 2 Clarkson, KY 42726

Gail Lush, Houston Lush, Linda Lush and James H. Lush 13587 Peonia Road, Unit 360 Clarkson, KY 42726

Houston and Mabeline Lush 13007 Peonia Road Clarkson, KY 42726

Edmonson County Water District P.O. Box 208 Brownsville, KY 42210

Nathan C. Maulden 12517 Peonia Road Clarkson, KY 42726

Marjorie Darlene Childress 4314 Sexton Lane Dallas, TX 75229 Thomas and Nancy Milas 12728 Peonia Road Clarkson, KY 42726

Rick and Sharon Hiser c/o Chad K. and Daniel E. Peyton 10900 Electron Drive, Suite 100 Louisville, KY 40299

Kirk Cummings 1609 Dawn Drive Louisville, KY 40216

James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce 7905 Jonquil Drive Louisville, KY 40258

Domingo and Venita L. Laracuente 12600 Peonia Road Clarkson, KY 42726

James E. and Cynthia Sturgeon P.O. Box 58473 Louisville, KY 40268

Richard Dale and Judy C. Yocum 12736 Peonia Road Clarkson, KY 42726

Darren L. Helms, P.L.S. 3386

JAN. 24, 2019



Sheila K. Utz 453 Lock Road Butler, Kentucky 41006

Public Notice

Kentucky RSA #3 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #3 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726. A map showing the location is attached.

The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to Case Number 2019-00045 in your correspondence.

Gail Lush, Houston Lush, Linda Lush and James H. Lush 13587 Peonia Road, Unit 360 Clarkson, Kentucky 42726

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Houston and Mabeline Lush 13007 Peonia Road Clarkson, Kentucky 42726

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Marjorie Darlene Childress 4314 Sexton Lane Dallas, Texas 75229

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Thomas and Nancy Milas 12728 Peonia Road Clarkson, Kentucky 42726

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Rick and Sharon Hiser c/o Chad K. and Daniel E. Peyton 10900 Electron Drive, Suite 100 Louisville, Kentucky 40299

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Kirk Cummings 1609 Dawn Drive Louisville, Kentucky 40215

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Domingo and Venita L. Laracuente 12600 Peonia Road Clarkson, Kentucky 42726

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Richard Dale and Judy C. Yocum 12736 Peonia Road Clarkson, Kentucky 42726

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Please refer to Case Number 2019-00045 in your correspondence.

James E. and Cynthia Sturgeon P.O. Box 58473 Louisville, Kentucky 40268

Public Notice

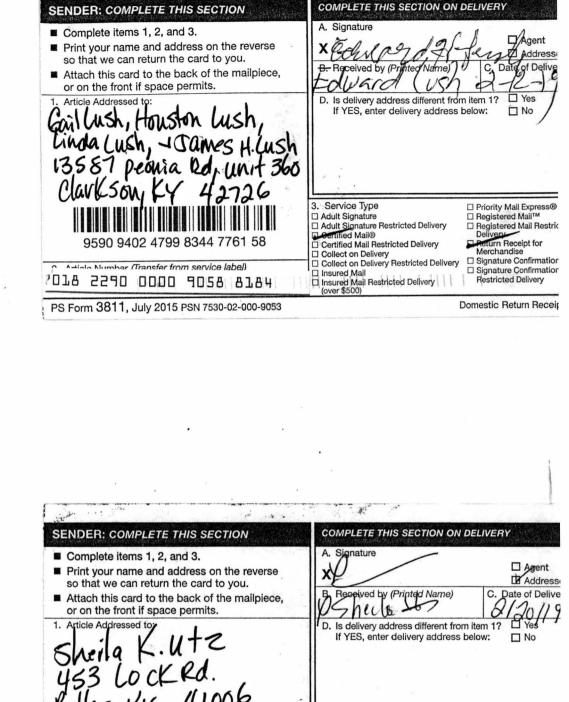
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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to Case Number 2019-00045 in your correspondence.



3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery Certified Mail®

☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)

☐ Signature Confirmation Restricted Delivery

☐ Priority Mail Express®

☐ Registered Mail™ ☐ Registered Mail Restric Delivery

Deturn Receipt for Merchandise ☐ Signature Confirmation

7018 2290 0000 9058 8160 PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number (Transfer from service label)

9590 9402 4799 8344 7761 72

Domestic Return Receip

■ Complete items 1, 2, and 3.	
Print your name and address on the reverse	A. Signature
so that we can return the card to you.	B. Received by (Printed Name) C. Date of
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of
1. Article Addressed to:	D. Is delivery address different from item 1?
Marjovic Dackne Childres	If YES, enter delivery address below: No
	7
4314 Sexton Lane	8.2
Dallas, TX 75229	
	3. Service Type ☐ Priority Mail Exp ☐ Adult Signature ☐ Registered Mall
9590 9402 4799 8344 7761 10	☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Registered Mail ☐ Delivery ☐ Teturn Receipt
	☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confident Confident Confident Confident Confident Confident Confident Confident Conf
2. Article Number (Transfer from service label)	☐ Insured Mail ☐ Insured Mail ☐ Insured Mail ☐ Restricted Delivery ☐ Restricted Delivery
7018 2290 0000 9058 8221	(over \$500)
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return
	The street of th
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3.	A. Signature
Print your name and address on the reverse so that we can return the card to you.	XXer: Merchits and
Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of
or on the front if space permits. 1. Article Addressed to:	D. Is delivery address different from item 1?
Edmouson Co. Water District	If YES, enter delivery address below:
campisan co. water or	
V.O. BOX 208	
410.1.41.000	
Mrs waille VV 11000	
Brownsville, KY 42210	
Brownsville, KY 42210	3. Service Type
Brownsville, KY 42210	3. Service Type
Brown Sville, KY 42210 9590 9402 4799 8344 7761 34	☐ Adult Signature ☐ Registered Mail ☐ Registere
9590 9402 4799 8344 7761 34	☐ Adult Signature ☐ Registered Mail ☐ Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confin
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9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 1 111 7018 2290 0000 9058 8207	☐ Adult Signature ☐ Registered Mail ☐ Adult Signature Restricted Delivery ☐ Certified Mail @ Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Insured Mail Restricted Delivery ☐ Insured Mail Restricted Delivery ☐ Restricted Delivery ☐ Restricted Delivery ☐ Signature Confii ☐ Restricted Delivery (over \$500)
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9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 1 111 7018 2290 0000 9058 8207	☐ Adult Signature ☐ Registered Mail ☐ Adult Signature Restricted Delivery ☐ Certified Mail @ Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Insured Mail Restricted Delivery ☐ Insured Mail Restricted Delivery ☐ Restricted Delivery ☐ Restricted Delivery ☐ Signature Confii ☐ Restricted Delivery (over \$500)
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3.	□ Adult Signature □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail □ Certified Mail □ Collect on Delivery □ Collect on Delivery Restricted Delivery □ Insured Mail □ Insured Mail Restricted Delivery (over \$500) □ Domestic Return COMPLETE THIS SECTION ON DELIVERY A. Signature
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9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) PD B 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature C. Date of Adults Adults Signature Aguard Agu
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature D. Is delivery address different from item 1? Yes
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Husha d Wabeline Lush	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature D. Is delivery address different from item 1? Yes
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2270 0000 7058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Husha d Wabeline Lush	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature D. Is delivery address different from item 1? Yes
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Howston & Wabeline Luch 3007 Peonia Ld.	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail Restricted Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. B. Received by (Printed Name) D. Is delivery address different from item 1? Yes If YES, enter delivery address below: Registered Mail
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2270 0000 7058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Husha d Wabeline Lush	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature D. Is delivery address different from item 1? Yes
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9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Howston & Wabeline Luch 3007 Peonia Ld.	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature COMPLETE THIS SECTION ON DELIVERY Domestic Return COMPLETE THIS SECTION ON DELIVERY A. Signature Complete This Section Name Complete Th
9590 9402 4799 8344 7761 34 2. Article Number (Transfer from service label) 7018 2290 0000 9058 8207 PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Howston & Wabeline Luch 3007 Peonia Ld.	Adult Signature Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature COMPLETE THIS SECTION ON DELIVERY Domestic Return A. Signature Adult Signature Agus Adult Signature Agus Adult Signature Agus Agus Adult Signature Agus Agus Agus Agus Agus Agus Agus Agus

2. Article Number (Transfer from service label)

□ Collect on Delivery
□ Collect on Delivery
□ Collect on Delivery
□ Insured Mail
□ Insured Mail Restricted Delivery
□ Insured Mail Restricted Delivery
□ Insured Mail Restricted Delivery

Complete items 1, 2, and 3.	A. Signature
■ Print your name and address on the reverse	X January Addresse
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Deliver
or on the front if space permits.	
Article Addressed to:	D. Is delivery address different from item 12 ☐ Yes
Kirk Cummings 1609 Dawn Drive	If YES, enter delivery against below No
Kill completings	8
1609 NAWN Drive	FEB 15 2019
The Dollary The	[8]
Louisville, Ky 40215	151000
	3. Service Type □ Priority Mail Express®
	☐ Adult Signature ☐ Registered Mail™
9590 9402 4799 8344 7760 80	□ Certified Mail® . Delivery
	☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Merchandise
2018 2290 0000 9058 8252	☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation ☐ Insured Mail ☐ Signature Confirmation
7018 2240 0000 1830	☐ Insured Mail Restricted Delivery (over \$500)
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receip
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	1. 12. 12. 12. 12. 12. 12. 12. 12. 12. 1
Complete items 1, 2, and 3.	A. Signature
Print your name and address on the reverse so that we can return the card to you.	X Addresse
■ Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Delive
or on the front if space permits.	1494 Wilson 2-16-11
Article Addressed to:	D. Is delivery address different from item 1? The Yes
	11 100000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	11 100000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	11 100000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Rick of Sharon Hiser clo Chadk. & Daniel Peyton 10900 Electron Divesuit 100 Louis Ville Ky 40299	If YES, enter delivery address below:
	If YES, enter delivery address below: No No Service Type Priority Mail Express® Registered Mail™
Rick of Sharon Hiser clo Chadk. & Daniel Peyton 10900 Electron Drivesuit 100 Louisville Ky 40299	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Certified Mail®
Rickd Sharon Hiser Clo Chadk. d Daniel Peyton 10900 Electron Orivesuit 100 Confession Language 9590 9402 4799 8344 7760 97	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail Restricted Delivery □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery
Rick of Sharon Hiser Clo Chadk. a Daniel Peyton 10900 Electron Vive suit 100 Confession 40299 9590 9402 4799 8344 7760 97	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail® □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery □ Insured Mail
Lick of Sharon Hiser Clo Chadk. a Daniel Peyton 10900 Electron Vill Swil 100 Conf Still Ky 40299 9590 9402 4799 8344 7760 97	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail Restricted Delivery □ Collect on Delivery Restricted Delivery □ Insured Mail □ Insured Mail Restricted Delivery
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Lick of Sharon Hiser Clo Chadk. a Daniel Peyton 10900 Electron Vill Swil 100 Conf Still Ky 40299 9590 9402 4799 8344 7760 97	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Collect on Delivery □ Collect on Delivery Restricted Delivery □ Insured Mail □ Insured Mail Restricted Delivery □ (over \$500)
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Lick of Sharon Hiser Clo Chadk. a Daniel Peyton 10900 Electron Divesuic 100 Confession Land 40299 9590 9402 4799 8344 7760 97	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Collect on Delivery □ Collect on Delivery Restricted Delivery □ Insured Mail □ Insured Mail Restricted Delivery □ (over \$500)
Lick of Sharon Hiser Clo Chadk. a Daniel Peyton 10900 Electron Mileswic 100 2011 Shill And And Peyton 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Restricted Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery (over \$500) Domestic Return Receip COMPLETE THIS SECTION ON DELIVERY A. Signature
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Lick of Sharon Hiser Clo Chadk. a Daniel Peyton 10906 Electron Mileswicton 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receip COMPLETE THIS SECTION ON DELIVERY A. Signature Agent Addresse
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PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receipt for Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Domestic Return Receipt COMPLETE THIS SECTION ON DELIVERY A. Signature X. Many Mall B. Addresse B. Received by (Printed Name) C. Date of Deliver Many S. Milas C. Date of Deliver Mayory S. Milas
Lick of Sharon Hiser Clo Chack & Daniel Peyton 10906 Electron Vive Suictoo Conf Stille & 40299 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receip COMPLETE THIS SECTION ON DELIVERY A. Signature Agent Addresse
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Lick of Sharon Hiser Clo Chack & Daniel Peyton 10906 Electron Vive Suictoo Conf Stille & 40299 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receipt or Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Domestic Return Receipt or Merchandise Addresse Addresse B. Received by (Printed Name) Domestic Return Receipt or Merchandise Complete This Section on Delivery A. Signature X. Manual Mail Agent Addresse B. Received by (Printed Name) D. Is delivery address different from item 1? Yes
Lick of Sharon Hiser Clo Chack & Daniel Peyton 10906 Electron Vive Suictoo Conf Stille & 40299 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receipt or Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Domestic Return Receipt or Merchandise Addresse Addresse B. Received by (Printed Name) Domestic Return Receipt or Merchandise Complete This Section on Delivery A. Signature X. Manual Mail Agent Addresse B. Received by (Printed Name) D. Is delivery address different from item 1? Yes
Lick of Sharon Hiser Clo Chack & Daniel Peyton 10906 Electron Vivishictoo Confession 4799 8344 7760 97 2. Article Number (Transfer from service label) 2. Article Number (Transfer from service label) 2. PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receipt or Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Domestic Return Receipt or Merchandise Addresse Addresse B. Received by (Printed Name) Domestic Return Receipt or Merchandise Complete This Section on Delivery A. Signature X. Manual Mail Agent Addresse B. Received by (Printed Name) D. Is delivery address different from item 1? Yes
Lick of Sharon Hiser Clo Chack & Daniel Peyton 10906 Electron Vive Suictoo Conf Stille & 40299 9590 9402 4799 8344 7760 97 2. Article Number (Transfer from service label) PS Form 3811, July 2015 PSN 7530-02-000-9053 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery Insured Mail Insured Mail Restricted Delivery Insured Mail Insured Mail Restricted Delivery Cover \$500) Domestic Return Receipt or Merchandise Signature Confirmation Signature Confirmation Restricted Delivery Domestic Return Receipt or Merchandise Addresse Addresse B. Received by (Printed Name) Domestic Return Receipt or Merchandise Complete This Section on Delivery A. Signature X. Manual Mail Agent Addresse B. Received by (Printed Name) D. Is delivery address different from item 1? Yes
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James Wendell Sego, Carmel T. Sego, Winnie Pierce and Mary Burnetta Pierce 7905 Jonquil Drive Louisville, Kentucky 40258

Public Notice

Kentucky RSA #3 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #3 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726. A map showing the location is attached.

The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to Case Number 2019-00045 in your correspondence.

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Sent:

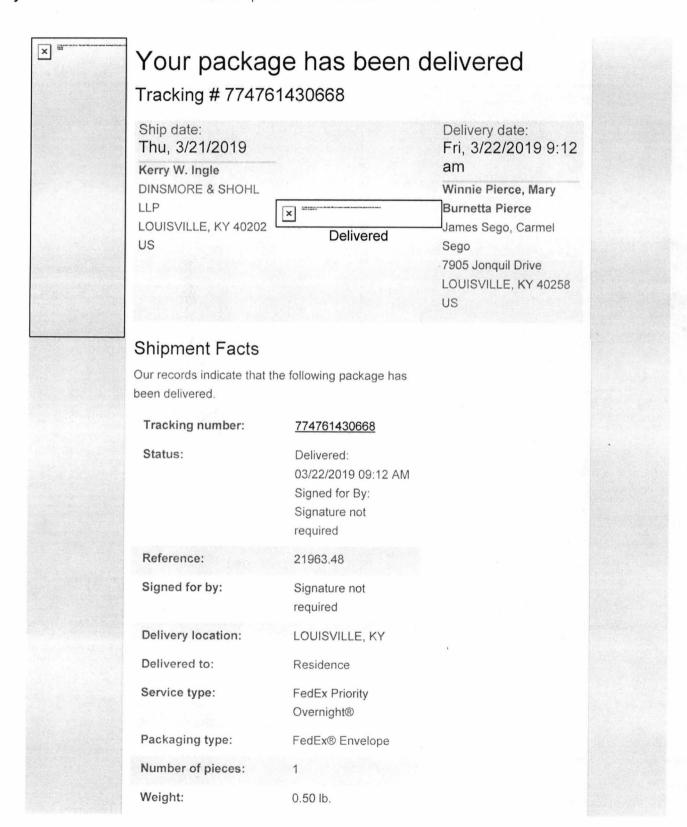
Friday, March 22, 2019 9:17 AM

To:

INGLE, KERRY

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Thank you for your business.

Nathan C. Maulden 12517 Peonia Road Clarkson, Kentucky 42726

Public Notice

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to Case Number 2019-00045 in your correspondence.

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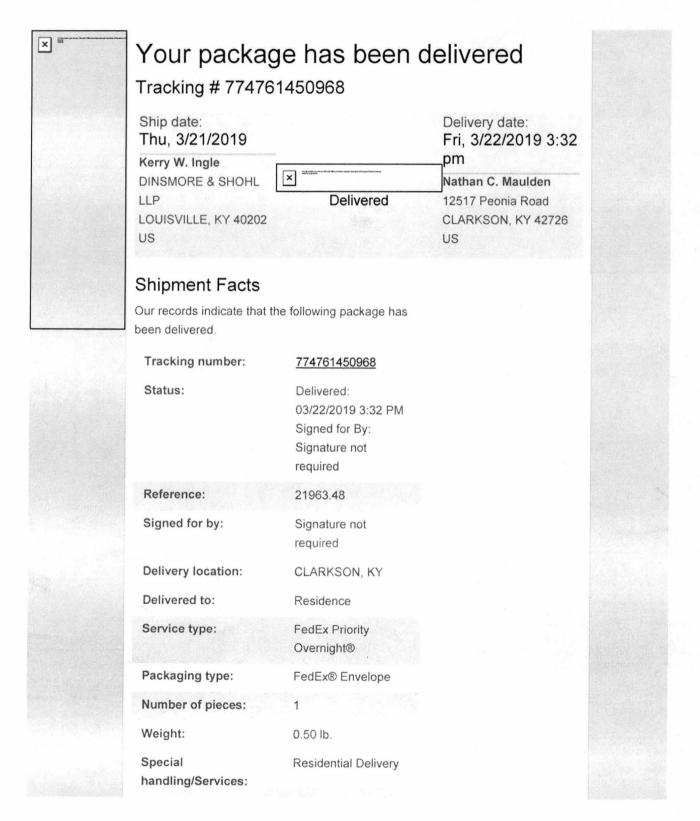
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Edward H. and Mable Lush 13587 Peonia Road, Unit 2 Clarkson, Kentucky 42726

Public Notice

Kentucky RSA #3 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #3 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726. A map showing the location is attached.

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Frankfort, Kentucky, 40602.

Please refer to Case Number 2019-00045 in your correspondence.

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Tracking # 774526494937

Ship date:

Thu, 2/21/2019

Kerry W. Ingle

DINSMORE & SHOHL

LLF

LOUISVILLE, KY 40202

US



Delivery date: Fri, 2/22/2019 11:35 am

Edward and Mable

Lush

13587 Peonia Road, Unit

2

CLARKSON, KY 42726

US

Shipment Facts

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Status:

Delivered:

02/22/2019 11:35 AM

Signed for By: Signature not required

Reference:

21964.43

Signed for by:

Signature not

required

Delivery location:

CLARKSON, KY

Delivered to:

Residence

Service type:

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Overnight®

Packaging type:

FedEx® Envelope

Number of pieces:

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Weight:

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Thank you for your business.

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Legal Counsel.

PS Form 3800, April 2015 PSN 7530-02-000-9047

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101 South Fifth Street ^ Suite 2500 ^ Louisville, KY 40202

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Kerry W. Ingle 502-540-2354 (Direct Dial) kerry.ingle@dinsmore.com

February 5, 2019

Via Certified Mail
Honorable Kevin Henderson
Grayson County Judge Executive
10 Public Square
Leitchfield, Kentucky 42754

Re:

Application of Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a new cellular facility to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2019-00045

Judge Henderson:

Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular is applying to the Public Service Commission of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726. A map showing the location is attached.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00045 in your correspondence.

Very Truly Yours,

DINSMORE & SHOHLLLP

Kerry W. In

Paralegal

Enclosure

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AFFP NOTICE Kentucky RSA #3 Cellula

Affidavit of Publication

STATE OF KY }
COUNTY OF GRAYSON }

SS

Alicia Chambers, being duly sworn, says:

That she is Accounting Clerk of the News Gazette, a daily newspaper of general circulation, printed and published in Leitchfield, Grayson County, KY; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

February 16, 2019, February 23, 2019

NOTICE

Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #3 of the Commonwealth of Kentucky (Wax Cell Site). The facility is a 240 tower and an equipment shelter to be located at 12523 Peonia Road, Clarkson, Grayson County, Kentucky, 42726. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00045 in your correspondence.

That said newspaper was regularly issued and circulated

on those dates.

Accounting Clerk

Subscribed to and sworn to me this 23rd day of February 2019.

Melanie Miller, , Grayson County, KY

My commission expires: September 26, 2019

00144356 00635016

KERRY INGLE 43ND-DINSMORE & SHOL LLP 101 S 5TH ST SUITE 2500 LOUISVILLE, KY 40202



Retired Teachers holds mid-winter meeting

The mid-winter meeting provided Grayson County Retired Teachers Association with information from Debbie Meyers about a new mentorship program, Mission of Hope. The program is looking for mentors for its Tuesday after school program beginning in September. There will be a kick-off at the Centre on Main on March 18 from 4 to 6 p.m. Alfreda Weedman provided information regarding legislation and possible insurance changes.

Pat Hackley provided the devitional. Everyone is encouraged to invite their former colleagues to join GCRTA. The dues are only \$10, and the benefits of learning about issues impacting the group



The Grayson County Retired Teachers Association's third annual Valentine's flower door prize drawing was held recently. Winners and the generous, talented local florists who donated were: front row: Mary Leslie Davis (For Myself Florist) and Carolyn Thomason (Designs by Brad); and back row: Kay Decker (Raye's Flowers), Pat Hackley (Whoop-De-Do Design) and Theresa Basham (Gibson's Florist).

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PUBLIC HEARING
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Eastern Standard Time, at 211 and
Sower Boulevard in Francisch,
Kentucky, for the purpose of
reaching public comment and
Kentucky Utilities Company.
(IVC) and International in Case
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No. 2019-00294, which is the
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International Cooking Class Series

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You can travel the around the world in this 4-part International Cooking Series that will be taught at the Grayson County Extension Office! You will learn about the customs and cuisine of four different featured countries, and experience wonderful new tastes, recipes, food demonstrations and food sampling! Robin Felix, Grayson County Nutrition Education Program Assistant, will introduce you to healthy, nutritious foods that you can make in your own home. The weekly series will be held on Tuesday's from 5 p.m. to 6:30 p.m. on the following schedule:

April 2 — El Salvador, April 16 — Venezuela, April 9 — Germany; April 30 — Thailand
The class series is free to

April 30 — Thailand
The class series is free to
attend and open to the public, but
advanced registration is required
by calling (270) 259-342. Participants will receive a free gift for
every session they attend! Please
park in the back of the building
and enter in the West entrance
door.

More information, enhanced functionality

New upgrades to LG&E and KU online outage map designed to empower customers

whether it's for a few minutes, a few days, experiencing a power outage is never convenient. Getting detailed information about the outage enables customers to make critical decisions regarding what they need to do until power is restored. For nearly a decade for until power is restored. For nearly a decade for mearly a decade for mearly a decade for until power is restored. Mobile interactive designed to provide independent of customers impacted a better functionality and providing the unitage may be may which is east of the following: Mobile interactive design — The map is now fully interactive of mobile devices, and Kentucky Utilities. Company have empowered customers by providing this important information through the utilities' online outage map. Since its launch in 2010, the map's near real-time outage data has become a valuable tool for customers, media, of where outages stand emergency operations within the restoration and government agen.

ture allows customers with up-to-date mobile information in their registered accounts registered accounts to report and keep track of the status of their outage by texting 4LGEKU (454358).

OUTAGE MAP APP

OUTAGE MAP APP
LG&E and KU's outage map app has been
revamped to reflect the
map's new changes.
Individuals with mobile
devices that accept
automatic updates will
automatically receive
the newest version of
the outage map app.
All other devices will
populate an alert mespopulate an alert message on the outage map screen, notifying them the map is in need of an upgrade. Users can get the map upgrade by downloading the new version from the app store associated with their device.

and offer greater communications choices to customers, including Outage Texting. The under device.

Try out the new outage map after Feb. 14 by visiting lge-ku.com.

8-week classes begin March 18 at ECTC

SUBMITTED

SUBMITTED

Current college students as well as new students looking to complete their course work in a shorter time may take advantage of 8-week classes at Elizabethtown Community and Technical College. These options can provide more time for students to file for financial aid and prepare for the beginning of classes. Students who are currently enrolled also have the opportunity to add rently enrolled also have the opportunity to add classes to their schedules this semester. By taking 15 credit hours per semester, students can be eligible for the 15-to-Finish Scholarship.

The Work Ready Scholarship is available for many students who are working on credentials in one of five high-demand career fields, including healthcare,

SEE ECTC/PAGE RR

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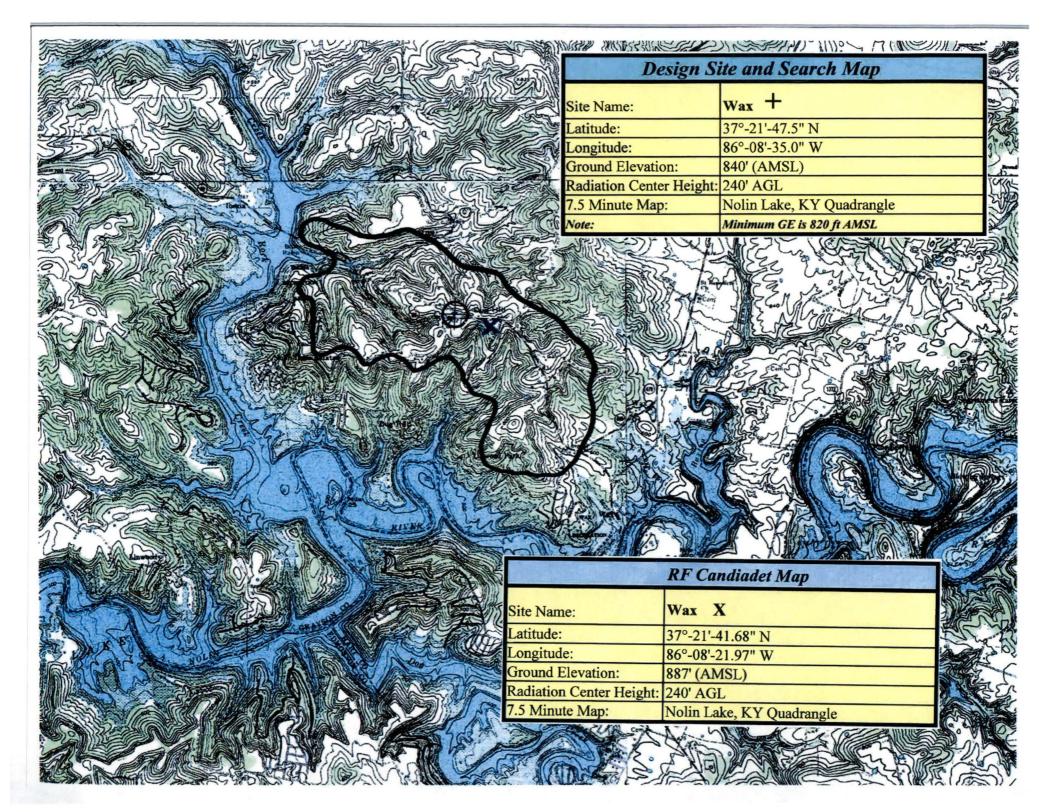
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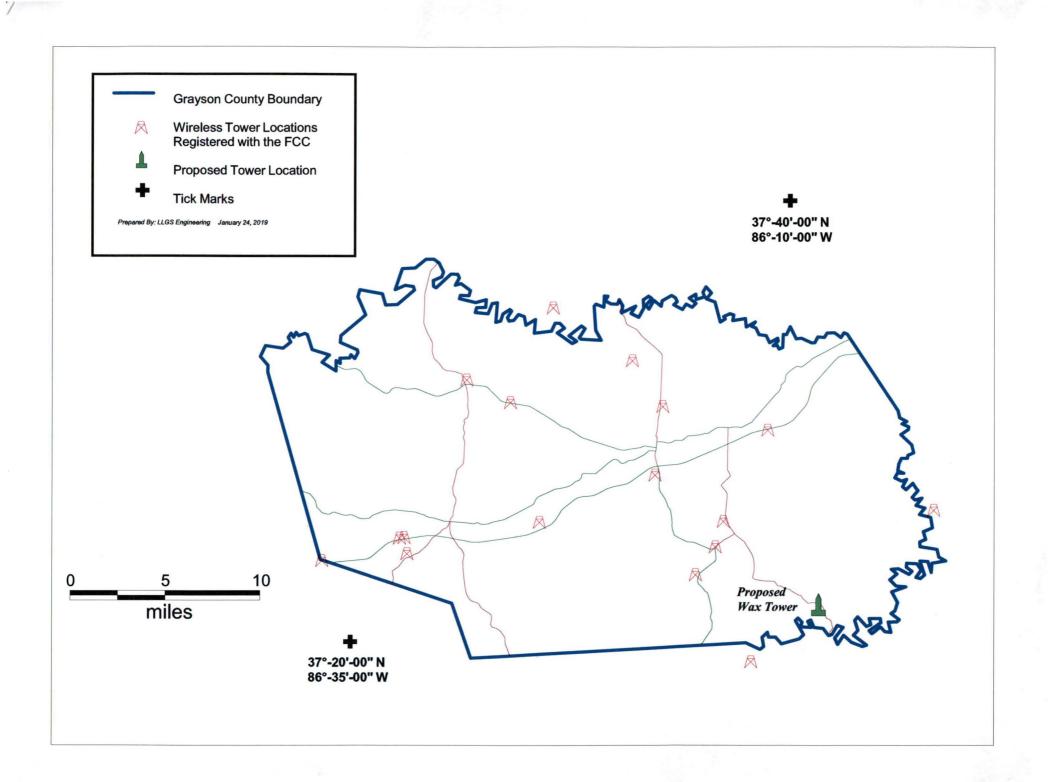
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Information on Towers Registered with the FCC in Grayson County and 1/2 Mile Area Outside of the County Boundary

FCC ASR No.	North Latitude	West Longitude	City, State	Tower Owner
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1043035	37-24-41	86-32-12	Caneyville, KY	Kentucky RSA #3 Cellular General Partnership, dba Bluegrass Cellular
1043037	37-27-33	86-17-41	Leitchfield, KY	Kentucky RSA #3 Cellular General Partnership, dba Bluegrass Cellular
1043268	37-30-40	86-17-15	Leitchfield, KY	HERITAGE MEDIA OF KENTUCKY INC
1043431	37-24-42.6	86-31-56.6	Caneyville, KY	NEW CINGULAR WIRELESS PCS, LLC
1052138	37-25-58	86-01-49	Millerstown, KY	FM 90.1, INC.
1217206	37-29-36	86-11-16.5	Clarkson, KY	Crown Communication Inc.
1217214	37-25-24.5	86-24-14.9	Millwood, KY	Crown Communication Inc.
1217219	37-23-39.9	86-36-37.8	Morgantown, KY	Crown Communication Inc.
1235514	37-19-5.4	86-12-12.3	Mammoth Cave, KY	Powertel/Memphis, Inc.
1244902	37-31-51.2	86-28-23.9	Short Creek, KY	NEW CINGULAR WIRELESS PCS, LLC
1250554	37-24-17.9	86-14-14.4	Clarkson, KY	Tennessee Valley Authority
1258451	37-32-44.1	86-18-58.4	Leitchfield, KY	Kentucky RSA #3 Cellular General Partnership, dba Bluegrass Cellular
1268314	37-30-50	86-25-54.6	Leitchfield, KY	Mobilitie Investments II, LLC
1268315	37-35-8.1	86-23-28.8	Leitchfield, KY	Mobilitie Investments II, LLC
1280487	37-25-27.1	86-13-46.7	Clarkson, KY	Kentucky RSA #3 Cellular General Partnership, dba Bluegrass Cellular
1281698	37-23-1.9	86-15-21.7	Meredith, KY	Kentucky Utilities Company
1284809	37-23-58.9	86-31-46.8	Caneyville, KY	KENTUCKY UTILITIES COMPANY