

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

In the matter of:

THE APPLICATION OF EAST KENTUCKY NETWORK,)	
LLC FOR THE ISSUANCE OF A CERTIFICATE OF)	
PUBLIC CONVENIENCE AND NECESSITY TO)	CASE NO. 2020-00305
CONSTRUCT A TOWER IN LETCHER COUNTY,)	
KENTUCKY)	

East Kentucky Network, LLC, d/b/a Appalachian Wireless, was granted authorization to provide cellular service in the KY-10 Cellular Market Area (CMA452) by the Federal Communications Commission (FCC). FCC license is included as Exhibit 1. East Kentucky Network, LLC merger documents were filed with the Commission on February 2, 2001 in Case No. 2001-022. East Kentucky Network, LLC is a Kentucky Limited Liability Company that was organized on June 16, 1998. East Kentucky Network, LLC is in good standing with the state of Kentucky.

In an effort to improve service in Letcher County, pursuant to KRS 278.020 Subsection 1 and 807 KAR 5:001, East Kentucky Network, LLC is seeking the Commission's approval to construct a 350-foot telecommunications tower on a tract of land located at 395 Linran Drive, Jenkins, Letcher County, Kentucky (37°12'44.36"N 82°36'56.59"W). A map and detailed directions to the site can be found in Exhibit 7.

Construction of the proposed tower is required by public convenience and necessity. Due to increasing demand for telecommunications service, the proposed tower is necessary to provide adequate coverage. The proposed tower will improve service in Letcher County by providing an interconnection between East Kentucky Network, LLC's other sites thereby forming a cohesive network.

Exhibit 2 is a list of all Property owners or residents according to the Property Valuation Administrator's record who own property within 500 feet of the proposed tower and all property owners who own property contiguous to the property upon which construction is proposed in accordance with the Property Valuation Administrator's records.

Pursuant to 807 KAR 5:063 Section 1(1)(l), Section 1(1)(m), and Section 2, all affected property owners according to the Property Valuation Administrator's record who own property within 500 feet of the proposed Tower or contiguous to the property upon which construction is proposed were notified by certified mail return receipt requested of East Kentucky Network, LLC's proposed construction and informed of their right to intervene. They were given the docket number under which this application is filed. Enclosed in Exhibit 2 is a copy of that notification.

Letcher County has no formal local planning unit. In absence of this unit, the Letcher County Judge Executive's office was notified by certified mail, return receipt requested of East Kentucky Network, LLC's proposal and informed of their right to intervene. The Letcher County Judge Executive's Office was also given the docket number under which this application is filed. Enclosed in Exhibit 3 is a copy of that notification.

Notice of the location of the proposed construction was published in The Mountain Eagle, October 7, 2020, edition, copies of which are enclosed as Exhibit 3. The Mountain Eagle is the newspaper with the largest circulation in Letcher County.

A geologist was employed to determine soil and rock types and to ascertain the distance to solid bedrock. The geotechnical report is enclosed as Exhibit 4.

A copy of the tower design information is enclosed as Exhibit 5. The proposed tower has been designed by engineers at World Tower Company, Inc. and will be constructed under their supervision. Their qualifications are evidenced in Exhibit 5 by the seal and signature of the registered professional engineer responsible for this project.

The tower will be erected by S & S Tower Services of St. Albans, West Virginia. S & S Tower Services has vast experience in the erection of communications towers. Their qualifications are described in Exhibit 13.

FAA and KAZC approvals are included as Exhibit 6.

No Federal Communications Commission approval is required prior to construction of this facility. Once service is established from this tower we must immediately notify the Federal Communications Commission of its operation. Prior approval is needed only if the proposed facility increases the size of the cellular geographic service area. This cell site will not expand the cellular geographic service area.

Two notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2), measuring at least two (2) feet in height and four (4) feet in width and containing all required language in letters of required height, have been posted, one at a visible location on the proposed site and one on the nearest public road. The two signs were posted on October 2, 2020, and will remain posted for at least two weeks after filing of this application as specified.

Enclosed in Exhibit 8 is a copy of East Kentucky Network, LLC's Memorandum of Lease for the site location along with a lot description.

The proposed construction site is on a reclaimed surface mining site some distance from the nearest structure.

East Kentucky Network, LLC's operation will not affect the use of nearby land nor its value. No more suitable site exists in the area. A copy of the search area map is enclosed in Exhibit 7. One other tower, which is owned by Mega Communications, Inc., exists within the search area, and East Kentucky Network, LLC currently colocalizes on this tower. However, the tower is reaching capacity and cannot accommodate East Kentucky Network, LLC's needs. To better serve the

community, East Kentucky Network, LLC requires its own tower so that it may add more equipment as needed and move the equipment to higher elevations.

Enclosed, and filed as Exhibit 9 is a survey of the proposed tower site signed by a Kentucky registered professional engineer.

Exhibit 10 is a map in one (1) inch equals 200 feet scale identifying every structure and every owner of real estate within 500 feet of the proposed tower and all property owners who own contiguous property to the property upon which construction is proposed.

Exhibit 11 contains a vertical sketch of the tower supplied by James W. Caudill, Kentucky registered professional engineer.

Enclosed as Exhibit 12 is a list of utilities, corporation, or persons with whom the tower is likely to compete.

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

WHEREFORE, Applicant, having met the requirements of KRS 278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, respectfully requests that the PSC accept the foregoing Application for filing and grant a Certificate of Public Convenience and Necessity to construct and operate the proposed tower.

The foregoing document was prepared by Cindy McCarty, attorney for East Kentucky Network, LLC d/b/a Appalachian Wireless. All related questions or correspondence concerning this filing should be mailed to East Kentucky Network, LLC d/b/a/ Appalachian Wireless, 101 Technology Trail, Ivel, KY 41642.

SUBMITTED BY: Lynn Haney DATE: 10-5-2020
Lynn Haney, Regulatory Compliance Director

APPROVED BY: W.A. Gillum DATE: 10-5-2020
W.A. Gillum, General Manager

ATTORNEY: Cindy McCarty DATE: 10-5-2020
Hon. Krystal Branham, Attorney
Hon. Cindy McCarty, Attorney

CONTACT INFORMATION:

W.A. Gillum, General Manager
Phone: (606) 477-2355, Ext. 111
Email: wagillum@ekn.com

Lynn Haney, Regulatory Compliance Director
Phone: (606) 477-2355, Ext. 1007
Email: lhane@ekn.com

Krystal Branham, Attorney
Phone: (606) 477-2355 ext. 1009
Email: kbranham@ekn.com

Cindy McCarty, Attorney
Phone: (606) 477-2355 ext. 1006
Email: cmccarty@ekn.com

Mailing Address:

**East Kentucky Network, LLC
d/b/a Appalachian Wireless
101 Technology Trail
Ivel, KY 41642**

1	FCC License
2	Copies of Cell Site Notice to Land Owners
3	Notifications of County Judge Executive and Newspaper
4	Universal Soil Bearing Analysis
5	Tower Design
6	FAA and KAZC Determination
7	Driving Directions from County Court House and Map to Suitable Scale
8	Memorandum of Lease for Proposed Site with Legal Description
9	Survey of Site Signed/Sealed by Professional Engineer Registered in State of Kentucky
10	Site Survey Map with Property Owners Identified in Accordance with PVA of County
11	Vertical Profile Sketch of Proposed Tower
12	List of Competitors
13	Qualifications
14	
15	

Exhibit 1

ULS License

Cellular License - KNKN809 - East Kentucky Network, LLC d/b/a Appalachian Wireless

Call Sign	KNKN809	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

Market

Market	CMA452 - Kentucky 10 - Powell	Channel Block	B
Submarket	0	Phase	2

Dates

Grant	08/30/2011	Expiration	10/01/2021
Effective	10/10/2014	Cancellation	

Five Year Buildout Date

10/17/1996

Control Points

1 US Route 23, FLOYD, Harold, KY
P: (606)478-2355

Licensee

FRN	0001786607	Type	Limited Liability Company
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Licensee

East Kentucky Network, LLC d/b/a Appalachian Wireless
101 Technology Trail
Ivel, KY 41642
P:(606)477-2355

Contact

Lukas, Nace, Gutierrez & Sachs, LLP	P:(703)584-8665
Pamela L Gist Esq	F:(703)584-8695
8300 Greensboro Drive	E:pgist@fcclaw.com
McLean, VA 22102	

Ownership and Qualifications

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity

Gender

Exhibit 2

EXHIBIT 2 – LIST OF PROPERTY OWNERS

Statement Pursuant to Section 1 (1) (I) 807 KAR 5:063

Section 1 (1)(I) 1. The following is a list of every property owner who according to property valuation administrator's records, owns property within 500 feet of the proposed tower and each have been: notified by certified mail, return receipt requested, of the proposed construction,

Section 1 (1)(I) 2. Every person listed below who, according to the property valuation administrator's records, owns property within 500 feet of the proposed tower has been: Given the Commission docket number under which the application will be processed: and

Section 1 (1)(I) 3. Every person listed below who, according to property valuation administrator's records owns property within 500 feet of the proposed tower has been: Informed of his right to request intervention.

Section 2. If the construction is proposed for an area outside the incorporated boundaries of a city, the application shall state that public notices required by Section 1(1)(L) have been sent to every person who, according to the property valuation administrator, owns property contiguous to the property upon which the construction is proposed

LIST OF PROPERTY OWNERS

City of Jenkins
853 Lakeside Drive
Jenkins, KY 41537

Carl and Sherry Tucker
P.O. Box 123
Burdine, KY 41517

Pike Letcher Coal Co.
P.O. Box 39
Nevisdale, KY 40754

Carol Sue Cantrell
P.O. Box 171
Jenkins, KY 41537

Steve and Rebecca Addington
45 Little Oak St.
Jenkins, KY 41537

Leonard and Judy Lowery
P.O. Box 342
Dorton, KY 41520

Tracy Neil Baker
16468 Ziegler St.
Taylor, MI 48180

Paul and Patricia Baker
Box 521
Jenkins, KY 41537

James W. Addington
P.O. Box 264
Burdine, KY 41537

Richard and Darlene Vicars
P.O. Box 384
Jenkins, KY 41537

Robin Kincer Kisor
P.O. Box 183
Jenkins, KY 41537

TECO Coal
200 Allison Blvd.
Corbin, KY 40701

James and Janice Forsyth
921 Road Fork
Pikeville, KY 41501

Bobby and Peggy Williams
30 Joes Branch Road
Jenkins, KY 41537

Christopher Williams
75 Lemon Drive
Jenkins, KY 41537

Thomas Bormes
98 B&O Hill
Jenkins, KY 41537

Church of God of East Jenkins
Whitesburg, KY 41858

Dawahares, Inc.
1801 Alexandria Dr.
St. 148
Lexington, KY 40504

Arner and Pamela Whitaker
5140 HWY 805
Jenkins, KY 41537

Ronnie Lee Campbell
181 Kelly Mountain Rd.
Shelby Gap, KY 41563

Wanda Bentley
104 Jonathon Court
Frankfort, KY 40601

Tracy Kelly
913 Kelly Mtn. Road
Shelby Gap, KY 41563

Roggina Collins
19 Number 1 Bottom
Burdine, KY 41517

James and Blanche Vanover
134 Marshalls Branch
Jenkins, KY 41537

Harold Stanley Heirs
C/O Anita Mullins
4671 Dorton Jenkins HWY
Jenkins, KY 41537

Virgil and Mabel Tucker
Life Estate
322 Tucker Drive
Jenkins, KY 41537

Jerry and Gary Kirby
134 Marshalls Branch
Jenkins, KY 41537

Valleyview Apartments of Jenkins
C/O Red Mortgage Capital
1717 Main Street
STE 900
Dallas, TX 75201

Eugenia Joseph
1235 MTN Breeze Road
Jenkins, KY 41537

Alfred Anderson
RT 2
Jenkins, KY 41537

MEGA Communications
640 Doty Drive
Jeremiah, KY 41826

Polly Porter Life Estate
959 McPeaks Branch
Jenkins, KY 41537

Catherine and Tim Rose
57 Rose Farm Ridges
Jenkins, KY 41537

Donald Anderson
1167 Joes Branch
Jenkins, KY 41537

Mullins Cemetery
Jenkins, KY 41537

The Elkhorn Coal Company, LLC
544 South Lake Drive
Prestonsburg, KY 41653

Gracie Lowe
Thunder Ridge
Burdine, KY 41517



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

City of Jenkins
853 Lakeside Drive
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2020-00305 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Carl and Sherry Tucker
P.O. Box 123
Burdine, KY 41517

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

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PUBLIC NOTICE

October 5, 2020

Pike Letcher Coal Co.
P.O. Box 39
Nevisdale, KY 40754

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October 5, 2020

Carol Sue Cantrell
P.O. Box 171
Jenkins, KY 41537

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
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PUBLIC NOTICE

October 5, 2020

Steve and Rebecca Addington
45 Little Oak St.
Jenkins, KY 41537

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Lynn Haney, CPA
Regulatory Compliance Director
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PUBLIC NOTICE

October 5, 2020

Leonard and Judy Lowery
P.O. Box 342
Dorton, KY 41520

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Lynn Haney, CPA
Regulatory Compliance Director
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PUBLIC NOTICE

October 5, 2020

Tracy Neil Baker
16468 Ziegler St.
Taylor, MI 48180

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

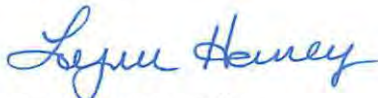
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Lynn Haney, CPA
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PUBLIC NOTICE

October 5, 2020

Paul and Patricia Baker
Box 521
Jenkins, KY 41537

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



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PUBLIC NOTICE

October 5, 2020

James W. Addington
P.O. Box 264
Burdine, KY 41537

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



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PUBLIC NOTICE

October 5, 2020

Richard and Darlene Vicars
P.O. Box 384
Jenkins, KY 41537

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Lynn Haney, CPA
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Enclosure 1



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PUBLIC NOTICE

October 5, 2020

Robin Kincer Kisor
P.O. Box 183
Jenkins, KY 41537

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Lynn Haney, CPA
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VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

TECO Coal
200 Allison Blvd.
Corbin, KY 40701

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

James and Janice Forsyth
921 Road Fork
Pikeville, KY 41501

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Bobby and Peggy Williams
30 Joes Branch Road
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Christopher Williams
75 Lemon Drive
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

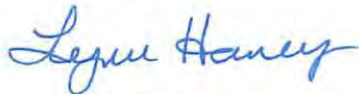
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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Thomas Bormes
98 B&O Hill
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Church of God of East Jenkins
Whitesburg, KY 41858

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Dawahares, Inc.
1801 Alexandria Dr.
St. 148
Lexington, KY 40504

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Arner and Pamela Whitaker
5140 HWY 805
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Ronnie Lee Campbell
181 Kelly Mountain Rd.
Shelby Gap, KY 41563

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Wanda Bentley
104 Jonathon Court
Frankfort, KY 40601

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Tracy Kelly
913 Kelly Mtn. Road
Shelby Gap, KY 41563

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Roggina Collins
19 Number 1 Bottom
Burdine, KY 41517

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

James and Blanche Vanover
134 Marshalls Branch
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Harold Stanley Heirs
C/O Anita Mullins
4671 Dorton Jenkins HWY
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Virgil and Mabel Tucker
Life Estate
322 Tucker Drive
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Jerry and Gary Kirby
134 Marshalls Branch
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Valleyview Apartments of Jenkins
C/O Red Mortgage Capital
1717 Main Street
STE 900
Dallas, TX 75201

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Eugenia Joseph
1235 MTN Breeze Road
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Alfred Anderson
RT 2
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

MEGA Communications
640 Doty Drive
Jeremiah, KY 41826

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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Lynn Haney, CPA
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Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Polly Porter Life Estate
959 McPeaks Branch
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2020-00305 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Catherine and Tim Rose
57 Rose Farm Ridges
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Donald Anderson
1167 Joes Branch
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Mullins Cemetery
Jenkins, KY 41537

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

The Elkhorn Coal Company, LLC
544 South Lake Drive
Prestonsburg, KY 41653

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2020-00305 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

October 5, 2020

Gracie Lowe
Thunder Ridge
Burdine, KY 41517

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

Whitehouse

Location:

395 Linran Drive
Jenkins, KY 41537

Coordinates:

37°12' 44.36" N
82° 36' 56.59" W



Google Earth

© 2020 Google

3000 ft

Exhibit 3

dba Appalachian Wireless
101 Technology Trail
Ivel, KY 41642
Phone: 606-477-2355
Fax: 606-791-2225

EAST KENTUCKY
NETWORK



To: The Mountain Eagle
Attn: Classifieds

From: Raina Helton
Regulatory Compliance Assistant

Email: Pwalker_eagle@hotmail.com

Date: September 30, 2020

Re: PUBLIC NOTICE ADVERTISEMENT

Pages: 1

Please place the following Public Notice Advertisement in The Mountain Eagle to be ran on October 7, 2020.

PUBLIC NOTICE:

RE: Public Service Commission of Kentucky (CASE NO. 2020-00305)

Public Notice is hereby given that East Kentucky Network, LLC, dba Appalachian Wireless has applied to the Kentucky Public Service Commission to construct a cellular telecommunications tower on a tract of land located at 395 Linran Drive, Jenkins, Letcher County, Kentucky. The proposed tower will be a 350 foot self-supporting tower with attached antennas. If you would like to respond to this notice, please contact the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2020-00305.

If you have any questions about the placement of the above mentioned notice, please call me at 606-477-2375, ext. 1005.

Thank you,

Raina Helton
Regulatory Compliance Assistant

The message above and the information contained in the documents transmitted are confidential and intended only for the person(s) named above. Dissemination, distribution or copying of this communication by anyone other than the person(s) named above is prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the address listed above via regular mail. Thank you.

VIA: U.S. CERTIFIED MAIL

October 5, 2020

Terry Adams, Judge Executive
156 Main Street, Suite 107
Whitesburg, KY 41858

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00305)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied 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 telecommunications service in Letcher County. The facility will include a 350-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at 395 Linran Drive, Jenkins, Letcher County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you are the County Judge Executive of Letcher County.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2020-00305 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney
Regulatory Compliance Director
Enclosure

Whitehouse

Location:

395 Linran Drive
Jenkins, KY 41537

Coordinates:

37°12' 44.36" N
82° 36' 56.59" W

Proposed Whitehouse Tower

Mega Communications

Left Fork Marshall Branch Rd

Cr-1890

White House Hollow Rd

Mc Peak Branch Rd

23

Joes Branch Rd

Cr-1404

Google Earth

© 2020 Google



3000 ft

Exhibit 4



230 Swartz Drive • Hazard • Kentucky • 41701
Phone (606) 551-1050

EAST KENTUCKY ENGINEERING, LLC.

**APPALACHIAN WIRELESS
Geotechnical Investigation on the
White House Tower Site
Letcher County, Kentucky
EKYENG Project No. 165-000-0103**

PREPARED FOR:
Appalachian Wireless.
101 Technology Trail
Ivel, Kentucky 41642

PREPARED BY:
Richard Dirk Smith PE, PLS
President
East Kentucky Engineering
230 Swartz Drive
Hazard, Kentucky 41701



_____, 20215, August 12th, 2020



EAST KENTUCKY ENGINEERING, LLC.

EXECUTIVE SUMMARY

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3.3 UNDERGROUND MINING

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II – ENGINEERED FILL BENEATH STRUCTURES CLEARING AND GRADING SPECIFICATIONS

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IV – GENERAL CONCRETE SPECIFICATIONS

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APPENDIX C – SEISMIC DATA

APPENDIX D – PHOTOGRAPHS

APPENDIX E – MAPS



EXECUTIVE SUMMARY

A geotechnical investigation has been performed on the White House Tower Site, located in Letcher County, Kentucky. This site is readily accessible. A location map is shown in Figure 1 of this report. Four (4) borings were advanced to a maximum depth of 34.6 ft. The following geotechnical considerations were identified:

- Borings utilized for this study encountered mine spoil and gray weathered shale.
- The estimated maximum base elevation of the tower mat foundation is 2,318.8.0 ft.
- This site is on a previously mined forested ridgeline.
- **The allowable bearing capacities are estimated to be at 2000 psf once the subgrade is undercut and backfilled to the recommended specifications. Details of the necessary remediations is included in Section 5 of this report.**
- The 2018 Kentucky Building Code seismic site classification for this site is "C."
- If, during the foundation design, it becomes necessary to lower or raise the footer, alternate design recommendations can be provided by EKYENG.
- Close monitoring of the construction operations discussed herein will be critical in achieving the design subgrade support. We, therefore, recommend that EKYENG is retained to monitor this portion of the work.

This executive summary is included to provide a general overview of the project and should not be relied upon except for the purpose it was prepared. Please rely on the complete report for the information on the findings, recommendations, and all other concerns.



EAST KENTUCKY ENGINEERING, LLC.

1. INTRODUCTION

East Kentucky Engineering (EKYENG) was retained by Mr. Stanton Neece of Appalachian Wireless to prepare a geotechnical engineering report for the proposed tower site located on the White House Property, in Letcher County, Kentucky. A site location map is shown in Figure No. 1.

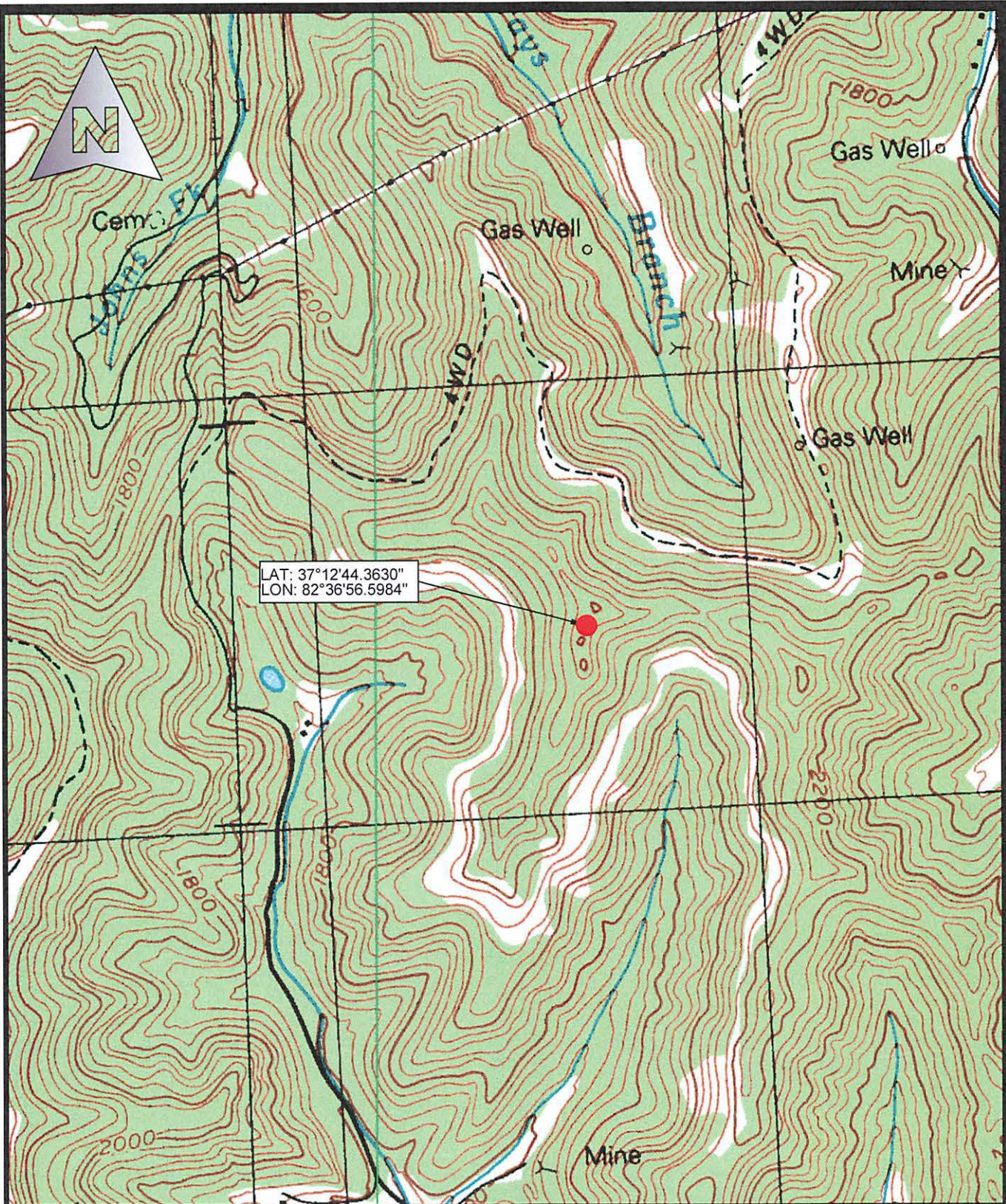
Four (4) borings were advanced to a maximum depth of 34.6 ft. Horn and Associates, Inc. provided drilling services to obtain these borings. Logs of the borings along with a boring location plan are included in Appendix A and Appendix E. The purpose of these services is to provide information and geotechnical engineering recommendations about subsurface conditions, earthwork, seismic considerations, groundwater conditions, and foundation design.

2.0 PROJECT DESCRIPTION

The proposed communication facility will consist of a self-supporting tower of undetermined height and ancillary support areas. The footing area is estimated to be 43 ft X 43 ft with an estimated base of the tower footer elevation at 2324.0 ft. Based on the information provided, we estimate the structural loads will be like the following conditions;

CONDITION	LOAD
Total Shear	40 Kips
Axial Load	50 Kips

We anticipate that overturning will govern the structural design. If the loading is significantly different than these expected values, EKYENG should be notified to re-evaluate the recommendations provided in this report.



Drawn: RDS	8/12/2020
Job: 165-103	Scale: 1"=1000'

APPALACHIAN WIRELESS
 EXCERPT FROM USGS QUAD
 LOCATION MAP
 WHITE HOUSE TOWER SITE
 FIGURE NO 1

East Kentucky Engineering, LLC.
 230 Swartz Drive
 Hazard, KY 41701
 (606) 551-1050



3.0 SITE DESCRIPTION & HISTORICAL MINING

3.1 GENERAL INFORMATION

The site location is on a previously mined forested ridgeline in Letcher County, Kentucky. The current surface elevation is approximately 2224.0 ft. Research on historical mining was conducted by obtaining previous mine license maps from the "Kentucky Mine Mapping Information System" (KMMIS).

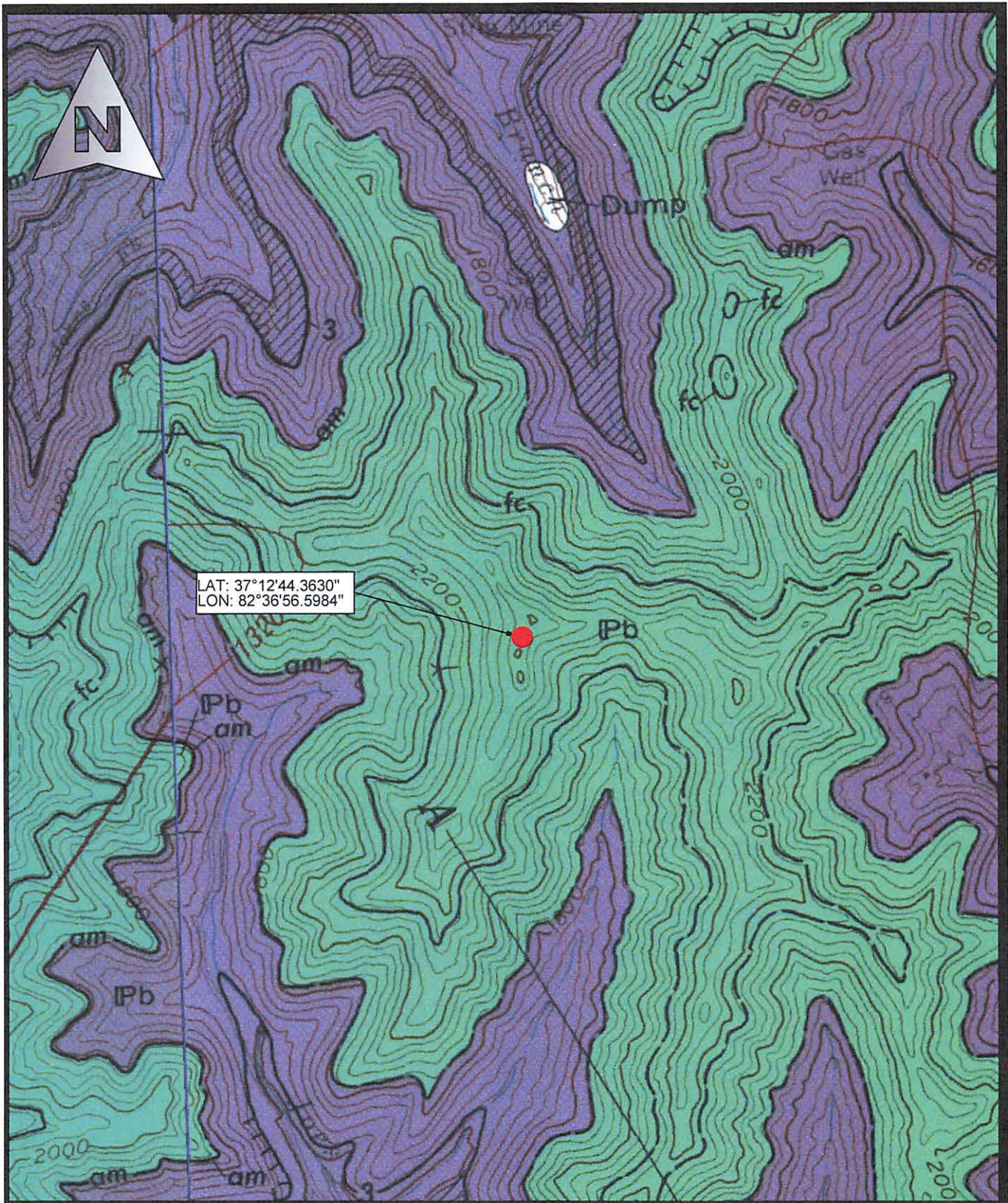
3.2 SURFACE MINING

Surface mining was conducted by Highwall Mining Contractors Inc. at this proposed tower location. This map has projected surface mining in all seams from the Taylor to the Elkhorn 3 in a range of elevations 2030 ft to 1630 ft. Highwall mining was projected in the Whitesburg, Hazard 4, Amburgey and Elkhorn 3 seam. No maps were found showing actual highwall mining associated with this mine. The borings taken for this investigation encountered a surface mining pit floor at an elevation of approximately 2200 ft.

3.3 UNDERGROUND MINING

There has been underground mining in the Elkhorn 2 & 3 Seams are combined into one mineable in this area and have been extensively mined throughout the Jenkins area. This seam elevation is estimated to be approximately 1600 ft which is 625 feet below the proposed site.

South Akers Mining conducted mining in the Upper Amburgey Seam using room and pillar mining methods. Some secondary mining and pillar extraction is within the area of subsidence influence. Based on the maps reviewed the mining was completed in 2005. This coal seam is approximately 400 feet below the proposed tower. An excerpt from the mine map is included in the Maps section of this report.



LAT: 37°12'44.3630"
 LON: 82°36'56.5984"

Drawn: RDS	8/12/2020
Job: 165-103	Scale: 1"=1000'

APPALACHIAN WIRELESS
 EXCERPT FROM GEOLOGIC QUAD
 LOCATION MAP
 WHITE HOUSE TOWER SITE
 FIGURE NO 2

East Kentucky Engineering, LLC.
 230 Swartz Drive
 Hazard, KY 41701
 (606) 551-1050



EAST KENTUCKY ENGINEERING, LLC.

Mining in the Hazard 4 seam was noted from an overlay map found in our research that was provided to mines and minerals by South Akers Mining Company. This seam is approximately 225 ft below the tower site.

3.4 FLOOD HAZARD

A potential flood determination was conducted by EKYENG. For this determination, the FEMA Flood Map Service was reviewed for this location. The flood map for the selected area is number **21133C0153C-210289**. The flood zone for this area is Zone X and is an area of minimal flood hazard. A FIRMette map is included in Appendix E of this report.

4.0 FIELD EXPLORATION

4.1 SITE INFORMATION

The proposed site is located on a previously surfaced mined forested ridgeline in Letcher County, Kentucky. The site lies within the Jenkins East Quadrangle. The site is readily accessible by conventional exploratory equipment. An estimated pad location was determined based on the information provided. Foundation dimensions were estimated to be at 43' X 43' ft mat footer for this report.

4.2 BORING DATA

Four (4) borings were made in the relative positions shown on the Site Map in Appendix E. The boring logs and resulting data are included in Appendix A. These borings were made with a track-mounted boring rig using hollow-stem augers and employing standard penetration resistance methods (ASTM D-1586, which includes 140-pound hammer, 30-inch drop, and two-inch-O.D. split-spoon sampler) at maximum depth intervals of five feet or at major changes in stratum, whichever occurred first. The disturbed split-spoon samples were visually classified, logged, sealed in moisture-proof jars, and taken to the EKYENG laboratory for study. The depths where these "A"-type split-spoon samples were



EAST KENTUCKY ENGINEERING, LLC.

collected are noted on the boring logs. The results of the natural moisture contents by boring and interval are shown in Table 2.

TABLE 2
RESULTS OF NATURAL MOISTURE CONTENT TESTS (ASTM D-4643)

SAMPLE NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
B1 S-1	2.0 - 3.5	8.7%
B1 S-2	4.5 - 6.0	7.6%
B1 S-3	7.0 - 8.5	10.5%
B1 S-4	9.5 - 11.0	17.5%
B1 S-5	14.5 - 16.0	16.4%
B2 S-1	2.0 - 3.5	11.2%
B2 S-2	4.5 - 6.0	5.7%
B2 S-3	7.0 - 8.5	6.0%
B2 S-4	9.5 - 11.0	9.4%
B2 S-5	14.5 - 14.7	2.7%
B2 S-6	19.5-19.8	10.3%
B3 S-1	2.0 - 3.5	13.3%
B3 S-2	4.5 - 6.0	6.1%
B3 S-3	7.0 - 8.5	3.7%
B3 S-4	9.5 - 11.0	10.3%
B3 S-5	14.5 - 16.0	14.6%



EAST KENTUCKY ENGINEERING, LLC.

B3 S-6	19.5 – 19.9	3.3%
B4 S-1	2.0 – 3.5	12.1%
B4 S-2	4.5 – 6.0	14.0%
B4 S-3	7.0 – 8.4	12.9%
B4-S-4	9.5 – 11.0	13.5%
B4-S-5	14.5 – 16.0	8.3%

The position at which the cores were taken is indicated on the boring logs and shown on the sitemap in Appendix E. The corresponding blow counts are shown in Table No. 3.

TABLE NO. 3
STANDARD PENETRATIONS

SAMPLE NO.	DEPTH INCREMENT	BLOW COUNT /RQD *	DESCRIPTION
B-1	0.0 – 0.2	----	Topsoil – Mine Spoil
B-1	0.2 – 17.1	7-5-5	Mine Spoil
B-1	17.1 – 19.6	50/1	Gray Weathered Shale
B-2	0.0 – 0.2	---	Topsoil
B-2	0.2 – 19.5	8-17-8	Mine Spoil
B-2	19.5 – 24.6	50/3	Gray Weathered Shale
B-2	24.6 - 34.6	7*	Gray Shale
B-3	0.0 – 0.2	---	Topsoil
B-3	0.2 – 19.5	10-11-11	Mine Spoil
B-3	19.5 – 19.9	50/4	Gray Weathered Shale
B-4	0.0 – 0.2	---	Topsoil
B-4	0.2 – 17.1	7-4-3	Mine Spoil
B-4	17.1 – 19.6	50/1	Gray Weathered Shale



EAST KENTUCKY ENGINEERING, LLC.

SAMPLE NO.	DEPTH INCREMENT	BLOW COUNT /RQD *	DESCRIPTION
B-4	19.6 – 29.6	31*	Gray Shale

The borings encountered mine spoil to a depth of 19.5 ft. The borings were extended by "NX" size rock core that were taken to confirm the presence of rock at the site and to determine its physical characteristics. The core was made with "NX" size diamond coring equipment. These borings are between 19.6 ft and 34.6 ft in depth. The position at which the core was taken is indicated on the boring logs and shown on the boring location map in Appendix D.

4.3 GROUNDWATER

Groundwater in Eastern Kentucky is characterized by water flowing through a system of internal fractures that lead to an alluvial aquifer near the bottom of valley floors. Large, defined aquifers other than the alluvium is not common, especially in higher elevations such as where this tower site is proposed. Therefore, groundwater should not be a concern in this area. During the site investigation, no groundwater resources were observed.

4.4 SEISMIC SITE CLASSIFICATION

Based on the encountered soil conditions at the project site, the site classification was determined to be "Site Class C" per the 2018 Kentucky Building Code. In addition, an S_{Ds} coefficient of 0.117 g, and an S_{D1} coefficient of 0.048 g was calculated for design based on the aforementioned building code.

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

The structure will be a self-supporting free-standing tri-pole tower. Due to wind loading, lattice tower foundations can experience both vertical loads and horizontal loads. The vertical loads act in both an upward and downward direction



EAST KENTUCKY ENGINEERING, LLC.

as the tower attempts to overturn and can act in any directions. The underlying soils are predominantly mine spoil to a depth of approximately 19.5 ft. It is our understanding that you wish to use a shallow mat foundation; therefore we have made the following recommendations.

5.2 SHALLOW MAT FOUNDATIONS RECOMMENDATIONS

Typically, we do not recommend shallow foundations on sites consisting of mine spoils. Settlement can and is likely to occur once the final structure's loading is in place. No settlement calculations have been evaluated for this report. If shallow foundations are used, it should be noted that the material type and bearing capacity can vary significantly due to the inconsistency of the underlying material. Based on the laboratory and field testing, visual inspection of the materials, and practical experience we have estimated that **the allowable bearing capacity at this site will be 2,000 psf once the following remediation is completed.**

If shallow foundations are used, we recommend that the site is over excavated to a minimum of eight ft. below the footing subgrade and ten ft. plus the footing depth outside the footing area. Any large rocks and unsuitable material should be removed and backfilled with a select backfill or dense grade aggregate. Well, graded soils or dense grade aggregate stone is to be placed in 8-inch horizontal lifts, compacted to not less than 95% of the maximum density as determined by the standard Proctor dry unit weight (ASTM D-968) and within +2% and -2% of the optimum moisture content. This remediation should assist in preventing differential settlement. Specifications for this backfill is included in Section II of the Appendices of this report.

It is furthermore recommended that the slabs-on-grade be supported on 4 to 6-inch layer of relatively clean granular material such as sand and gravel or clean crushed stone. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Proper drainage must be incorporated into this granular layer to preclude future wet areas in the finished slab-on-grade.



EAST KENTUCKY ENGINEERING, LLC.

However, all topsoil and/or other deleterious materials encountered during site preparation must be removed and replaced with 4000 psi. concrete below the foundation base. Provided that a minimum of 4 inches of granular material is placed below the new slab-on-grade, a modulus of subgrade reaction (k30) of 100 lbs./cu. in. can be used for design of the slabs.

Support structure for this tower can be placed as needed. It is recommended that test pits are examined to ensure that any of these structures are on the competent materials. If pockets of soft, loose or otherwise unsuitable material are encountered in the footing excavations and it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material has been removed. The undercut excavation beneath each footing should extend to suitable bearing soils and the dimensions of the excavation base should be determined by imaginary planes extending outward and down on a 1 (vertical) to 1 (horizontal) slope from the base perimeter of the footing. The entire excavation should then be refilled with a well-compacted engineered fill, or lean concrete (Please note that the width of the lean concrete zone should be equal or wider than the width of the overlying footing element). Special care should be exercised to remove any sloughed, loose or soft materials near the base of the excavation slopes. In addition, special care should be taken to "tie-in" the compacted fill with the excavation slopes, with benches as necessary, to ensure that no pockets of loose or soft materials will be left in place along the excavation slopes below the foundation bearing level. All Federal, State, and Local regulations should be strictly adhered to relative to excavation side-slope geometry.

5.3 SUBSIDENCE

Detailed subsidence analysis is beyond the scope of this report. Our research found one underground mine that is under the potential area of influence for subsidence beneath the proposed footprint of this structure. This area of influence is typically considered a 15-degree angle projected down from a flat surface 25 ft.



EAST KENTUCKY ENGINEERING, LLC.

outside the structure to the depth of mining.

The underlying mines were found in the Elkhorn 2 & 3 Seams, The Amburgey Seam, and the Hazard No. 4 Seam. Room and pillar mining was conducted, and some secondary mining (pillar recovery) was done based upon map review.

These mines range from 750 feet below the proposed site to 225 ft below the proposed site. The mining in the Elkhorn and Hazard No. 4 Seams were conducted several years in the past. If subsidence has occurred the effects on the surface would have been visible during our site review. The mining in the Amburgey Seam was completed in 2005. The mining height is noted at 52 inches. This gives an estimated subsidence height of 260 ft which is well below the proposed tower elevation.

5.4 BURIED UTILITIES

Excavations for buried utility pipelines should follow the guidelines set forth in this report. Depending on the pipeline material, a minimum thickness of at least 0.5 feet of select fine-grained granular bedding material should be used beneath all below-grade pipes, with a minimum cover thickness of at least 3 feet to afford an "arching" effect and reduce stresses on the pipe. The cover thickness may be reduced if the external loading condition on the pipe is relatively light or if the pipe is designed to withstand the external loading condition. It is not recommended that "pea-gravel" or other "open-work" aggregates be used for trench backfill since these materials are nearly impossible to compact and tend to pond water within their interstices.

6.0 WARRANTY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical



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engineering principles and practices. No other warranty, express or implied, is made.

While the services of EKYENG are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or insure the quality or completeness of services provided by other members of those teams, the quality, completeness, or satisfactory performance of construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

6.1 SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings, although test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report and is presented on the Boring Location Plan or on the boring log. The location and elevation of the boring should be considered accurate only to the degree inherent with the method used.

The boring log includes sampling information, description of the materials recovered, approximate depth of boundaries between soil and rock strata, and groundwater data. The boring log represents conditions specifically at the location and time the boring was made. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and are somewhat dependent upon the frequency of sampling (The transition between soil strata is often gradual). Free groundwater level readings are made at the times and under conditions stated on the boring logs (Groundwater levels change with time and season). The borehole does not always remain open sufficiently long enough for the measured water level to coincide with the groundwater table.



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6.2 LABORATORY AND FIELD TESTS

Laboratory and field tests are performed by specific ASTM standards unless otherwise indicated. All determinations included in each ASTM standard are not always required and performed. Each test report indicates the measurements and determinations made.

6.3 ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the engineering design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it is not intended to determine the cost of construction or to stand alone as a construction specification.

Our engineering report recommendations are based primarily on data from test borings made at the locations shown in a boring location drawing included. Soil variations may exist between borings, and these variations may not become evident until construction. If significant variations are then noted, the geotechnical engineer should be contacted so that field conditions can be examined and recommendations revised if necessary.

The geotechnical engineering report states our understanding as to the location, dimensions and structural features proposed for the site. Any significant changes in the nature, design, or location of the site improvements **MUST** be communicated to the geotechnical engineer such that the geotechnical analysis, conclusions, and recommendations can be appropriately adjusted. The geotechnical engineer should be given the opportunity to review all drawings that have been prepared based on their recommendations.

6.4 CONSTRUCTION MONITORING

Construction monitoring is a vital element of complete geotechnical services. The field engineer/inspector is the owner's "representative" observing the work of the contractor, performing tests as required in the specifications, and reporting data developed from such tests and observations. The field engineer or inspector does



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not direct the contractor's construction means, methods, operations, or personnel. The field inspector/engineer does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The field inspector/engineer is responsible for his own safety but has no responsibility for the safety of other personnel at the site. The field inspector/engineer is an important member of a team whose responsibility is to watch and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications.

6.5 GENERAL

The scope of our services did not include an environmental assessment for the presence or absence of hazardous or toxic materials in the soil, surface water, groundwater, or air, on, within, or beyond the site studied. Any statements in the report or on the boring logs regarding odors, staining of soils, or other unusual items or conditions observed are strictly for the information of our client.

To evaluate the site for possible environmental liabilities, we recommend an environmental assessment, consisting of a detailed site reconnaissance, a record review, and report of findings. Additional subsurface drilling and samplings, including groundwater sampling, may be required.

This report has been prepared for the exclusive use of Appalachian Wireless, for specific application to the proposed cellular tower located on the White House Property located in Letcher County, Kentucky. Specific design and construction recommendations have been provided in the various sections of the report. The report shall, therefore, be used in its entirety. This report is not a bidding document and shall not be used for that purpose. Anyone reviewing this report must interpret and draw their conclusions regarding specific construction techniques and methods that were chosen. EKYENG is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploratory and laboratory test data presented in this report.



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SPECIFICATIONS

I – GENERAL

1.0 STANDARDS AND DEFINITIONS

1.1 **STANDARDS** - All standards refer to latest edition unless otherwise noted.

1.1.1 ASTM D-698-70 (Method C) "Standard Test Methods for Moisture, Density Relations of Soils and Soil Aggregate Mixtures Using 5.5-lb (2.5 kg.) Rammer and 12-inch (305-mm) Drop".

1.1.2 ASTM D-2922 "Standard Test Method for Density of Soil and Soil Aggregate in Place by Nuclear methods (Shallow Depth)".

1.1.3 ASTM D-1556 "Standard Test Method for Density of Soil in place by the Sand-Cone Method".

1.2 DEFINITIONS

1.2.1 Owner - In these specifications the word "Owner" shall mean Appalachian Wireless.

1.2.2 Engineer - In these specifications the word "Engineer" shall mean the Owner designated engineer.

1.2.3 Design Engineer - In these specifications the words "Design Engineer" shall mean the Owner designated design engineer.

1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any work under the terms of these specifications.

1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.

1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.



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2.0 GENERAL CONDITIONS

- 2.1** The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein.

This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the observation of the Owner or his designated representative.

- 2.2** Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including, without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the owner can investigate the condition.

- 2.3** The construction shall be performed under the direction of an experienced engineer who is familiar with the design plan.



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II - ENGINEERED FILL BENEATH STRUCTURES CLEARING AND GRADING SPECIFICATIONS

1.0 GENERAL CONDITIONS

The Contractor shall furnish all labor, materials, and equipment, and perform all work and services necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction and grading as shown on the plans and as described therein.

This work shall consist of all clearing and grading, removal of existing structures unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the constant and continuous supervision of the Owner or his designated representative.

In these specifications, the terms "approved" and "as directed" shall refer to directions to the Contractor from the Owner or his designated representative.

2.0 SUBSURFACE CONDITIONS

Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work. Borings and/or soil investigations shall have been made. Results of these borings and studies will be made available by the Owner to the Contractor upon his request, but the Owner is not responsible for any interpretations or conclusions with respect thereto made by the Contractor based on such information, and the Owner further has no responsibility for the accuracy of the borings and the soil investigations.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the Owner can investigate the condition.

3.0 SITE PREPARATION

Within the specified areas, all trees, brush, stumps, logs, tree roots, and structures scheduled for demolition shall be removed and disposed of.

All cut and fill areas shall be properly stripped. Topsoil will be removed to its full depth and stockpiled for use in finish grading. Any rubbish, organic and other objectionable soils, and other deleterious material shall be disposed of off the site,



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or as directed by the Owner or his designated representative if on site disposal is provided. In no case shall such objectionable material be allowed in or under the fill unless specifically authorized in writing.

Prior to the addition of fill, the original ground shall be compacted to job specifications as outlined below. Special notice shall be given to the proposed fill area now. If wet spots, spongy conditions, or groundwater seepage is found, corrective measures must be taken before the placement of fill.

4.0 FORMATION OF FILL AREAS

Fills shall be formed of satisfactory materials placed in successive horizontal layers of not more than eight (8) inches in loose depth for the full width of the cross-section. The depth of lift may be increased if the Contractor can demonstrate the ability to compact a larger lift. If compaction is accomplished using hand-tamping equipment, lifts will be limited to 4-inch loose lifts. Engineered fill placed below the structure bearing elevation shall be compacted to at least 95% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by the modified Proctor test. The top size of the material placed shall not exceed 4 inches.

All material entering the fill shall be free of organic matter such as leaves, grass, roots, and other objectionable material.

The operations on earth work shall be suspended at any time when satisfactory results cannot be obtained because of rain, freezing weather, or other unsatisfactory conditions. The Contractor shall keep the work areas graded to provide the drainage always.

The fill material shall be of the proper moisture content before compaction efforts are started. Wetting or drying of the material and manipulation to secure a uniform moisture content throughout the layer shall be required. Should the material be too wet to permit proper compaction or rolling, all work thus affected shall be delayed until the material has dried to the required moisture content. The moisture content of the fill material should be no more than two (2) percentage points higher or lower than optimum unless otherwise authorized. Sprinkling shall be done with equipment that will satisfactorily distribute the water over the disced area. Any areas inaccessible to a roller shall be consolidated and compacted by mechanical tampers. The equipment shall be operated in such a manner that hardpan, cemented gravel, clay or other chunky soil material will be broken up into small particles and become incorporated with the other material in the layer.

In the construction of filled areas, starting layers shall be placed in the deepest portion of the fill, and as placement progresses, additional layers shall be constructed in horizontal planes. Original slopes shall be continuously, vertically benched to provide horizontal fill planes. The size of the benches shall be formed so that the base of the bench is horizontal, and the back of the bench is vertical. As many benches as are necessary to bring the site to final grade shall be



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constructed. Filling operations shall begin on the lowest bench, with the fill being placed in horizontal eight (8) inch thick loose lifts unless otherwise authorized. The filling shall progress in this manner until the entire first bench has been filled, before any fill is placed on the succeeding benches. Proper drainage shall be maintained always during benching and filling of the benches, to ensure that all water is drained away from the fill area.

Frozen material shall not be placed in the fill nor shall the fill be placed upon frozen material.

The Contractor shall be responsible for the stability of all fills made under the contract, and shall replace any portion, which in the opinion of the Owner or his designated representative, has become displaced due to carelessness or negligence on the part of the Contractor. Fill damaged by inclement weather shall be repaired at the Contractor's expense.

5.0 SLOPE RATIO AND STORM WATER RUN-OFF

Slopes shall not be greater than 2 (horizontal) to 1 (vertical) in both cut and fill, or as illustrated on the construction drawings. Excavations shall be constructed in accordance with all Federal, State and local codes relative to slope geometry.

6.0 GRADING

The Contractor shall furnish, operate, and maintain such equipment as is necessary to construct uniform layers, and control smoothness of grade for maximum compaction and drainage.

7.0 COMPACTING

The compaction equipment shall be approved equipment of such design, weight, and quantity to obtain the required density in accordance with these specifications.

8.0 TESTING AND INSPECTION SERVICES

Testing and inspection services will be provided by the Owner.



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GUIDELINES FOR EXCAVATIONS AND TRENCHES

The following represents some general guidelines relative to the design and construction of excavations and trenches. It must be emphasized that these guidelines are not intended to represent a "safety plan," but rather are presented herein to provide general guidance regarding the design characteristics and safety measures for excavations and trenches.

1. Check with the following utilities prior to breaking ground:
 - Sewer
 - Telephone
 - Fuel
 - Electric
 - Water
 - Gas
 - Cable

When utility companies or owners do not respond to your request within 48 hours, the contractor may only then proceed provided the contractor does so with caution by using detection equipment or other acceptable means to locate utility installations.

Once the excavation is open, the contractor should protect and support the exposed underground utilities or remove installations to safeguard workers and prevent damage to exposed utilities.

2. Access and egress ramps must be designed by a "competent person" and structural ramps used for equipment must be designed by a "competent person" with qualified knowledge in structural design. In addition:
 - Ramps must be secured to prevent displacement;
 - Ramps used in lieu of steps must have cleats to prevent slipping; and
 - Trenching excavations four feet or greater in depth must have a stairway, ladder, ramps or other safe means to egress with lateral travel no more than 25 feet.
3. Workers must be provided with reflector garments, such as warning orange or red vests, when exposed to vehicular traffic.
4. Contractors must not allow workers to work under or near equipment when there is danger of falling debris, spillage or equipment-related injuries.



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5. Mobile equipment, operating adjacent to an open excavation or approaching the edge of an excavation, must have one of the following when the operator's view is obstructed:
 - Warning System
 - Mechanical Signals
 - Barricades
 - Stop Logs
 - Hand Signals
6. The contractor must check the atmosphere for hazardous gases and oxygen deficiencies when excavating four feet or greater around landfills, or when hazardous substances are stored nearby, and when the contractor expects there could be any exposure to the workers.
7. When hazardous atmospheric conditions exist, or when conditions could change, the contractor must make emergency rescue equipment readily available including breathing apparatus, safety harnesses with life lines and a basket stretcher.
8. When workers enter bell-bottom pier holes or other deep and confined excavations, the worker must wear (always while performing work in the confined space) a separate life line attached to a harness. The line must be attended by someone above while work is being performed. The worker must check for hazardous atmospheric conditions prior to entry.
9. The contractor must ensure that water does not accumulate in open excavations and must inspect the excavation prior to allowing workers to re-enter after heavy rains.
10. Adjacent structures (buildings, walls, etc.) must be supported or secured to prevent worker exposure to unsafe conditions and damage to existing structures.
11. A registered professional engineer must approve operations when a contractor underpins existing structures to ensure worker safety and prevent damage to existing structures.
12. Workers must not be exposed to loose soil and rock or materials in and around excavations. Materials, such as removed soil and rock, must not be stored closer than two feet from the edge of the excavation.
13. Daily inspections of the excavation, the adjacent areas and protective systems must be made by a "competent person" for evidence of possible cave-ins, indications of failure of protective systems, hazardous atmospheres or other hazardous conditions. The "competent person" must



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stop work immediately and remove workers from the excavation when conditions change and pose a threat to their safety.

- 14.** Workers must not be exposed to fall hazards associated with excavations. Protective walkways or bridges with standard guard rails must be provided.
- 15.** All wells, pits, shafts etc. must be barricaded or covered. After completion of work, all wells, pits, shafts etc. must be backfilled.



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IV - GENERAL CONCRETE SPECIFICATIONS

1.0 GENERAL

It is the intent of this specification to secure, for every part of the work, concrete of homogenous structure which, when hardened, will have the required strength and resistance to weathering. To this end, the limiting values of concrete and the requirements hereinafter specified must be met. Standard tests of the cement, aggregates, concrete and reinforcement will be made by the Owner as it sees fit. The Contractor shall furnish the material for all required samples plus such labor as required to obtain samples. The Contractor shall provide to authorized representatives of the Owner, convenient access to all parts of the work of all concreting operations for the purpose of sampling and inspection.

2.0 SCOPE

Contractor shall furnish all materials, labor, services, transportation, tools, equipment, and related items required to complete work indicated on the drawings and/or specified.

Unless otherwise noted or as modified by more stringent requirements specified herein, all plain and reinforced concrete work shall be performed in full compliance with applicable requirements of the Building Code Requirements for Reinforced Concrete ACI 318.

Contractor shall obtain Owner's approval of all subgrades, footing bottoms, forms, and reinforcement just prior to placing concrete.

Contractor shall coordinate the work specified in this section with that specified in other sections so that all anchors, pipes and other embedded items are properly installed before concrete is placed.

Contractor shall clean all exposed concrete surfaces and obtain approval of Owner for method of cleaning

3.0 MATERIALS

All materials shall be of the respective quality specified herein, delivered, stored, and handled as to prevent inclusion of foreign matter and damage by dampness or breakage. Packaged material shall be stored in original container until ready for use. Materials showing evidence of dampness or other damage may be rejected.

A. Fine and Coarse Aggregates: Coarse and fine aggregates shall conform to ASTM Specification C33. The maximum size of aggregate shall not be larger than one-fifth (1/5) of the narrowest dimensions between forms, or larger than three fourths (3/4) of the minimum clear spacing between reinforcement.

1. Fine Aggregate: Sand shall be composed essentially of clean, hard, strong, durable grains free of structurally weak



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grains, organic matter, loam, clay, silt, salt, mica or other fine materials that may affect bonding of the cement paste.

2. Coarse Aggregate: Cement concrete shall consist of crushed rock or screened gravel and shall be composed essentially of clean, hard, strong and impermeable particles, resistant to wear and frost and free from deleterious amounts of organic matter, loam, clay, salts, mica, and soft, thin, elongated, laminated or disintegrated stone, and shall be inert to water and cement.
- B. Portland Cement: Portland cement shall conform to ASTM Specification C150. Type I or Type II Portland Cement shall be used provided that they are not intermixed during any one batch. Type II Portland Cement shall not be used unless indicated on the plans.
- C. Water: Water for mixing and curing shall be clean, fresh, and free from deleterious materials.
- D. Metal Reinforcement: Rebar shall be Grade 60 and with deformations conforming to ASTH Specification A305. Welded wire mesh shall conform to W4 x W4 size and be of Grade 60 steel.
- E. Admixtures: Except as herein noted, admixtures shall not be used.
 1. Under adverse weather conditions only retarding or accelerating agents containing no chloride may be used.
 2. Air-Entraining Agent shall be used for all concrete will give an entrained air range of not less than 4 percent but no greater than 8 percent in the finished product. Under no circumstances shall the air-entraining be interground with cement.
 3. Approval in writing shall be required from Owner prior to the use of any admixture.

4.0 FORM

Forms shall be constructed with proper shoring and cross-bracing, safeguarding the total structure and specifically lateral stability and sufficiently strong to stand vibrations of concrete and to carry, without appreciable deflection or displacement, all dead and live loads to which they may be subjected.

5.0 INSERTS, ETC.

Anchors, bolts, dowels, conduit, water stops, vent pipes and other similar built-in or concreted-in items shall be properly located, accurately positioned and secured. The Contractor shall cooperate in placing of such items with other contractors who require a fastening device for their work and he shall maintain them in proper location during the progress of his work.



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6.0 REINFORCEMENT

Reinforcement at the time concrete is placed shall be free from rust, scale or other coatings that will destroy or reduce the bond.

Reinforcement shall be accurately placed and securely tied at intersections and shall be securely held in position during the placing of concrete by pacers, chairs, or other approved supports.

The reinforcement of foundations, footings and other principal structural members in which the concrete is deposited against the ground shall not have less than three (3) inches of concrete between it and the ground contact surface. If concrete surfaces after removal of the forms are to be exposed to the weather or to be in contact with the ground or rock, reinforcement shall be protected with not less than two (2) inches of concrete,

7.0 CONCRETE

Concrete for the various parts of the work shall be of 4000 pounds per square inch compressive strength with a minimum 28-day cure. Contractor is responsible to provide a mix of not less than 6 bags of cement per yard of concrete and not more than 7 gallons of water per bag of cement, producing a minimum slump of 2-1/2 inches and a maximum slump of 4-1/2 inches. Concrete that exceeds the above range of maximum or minimum slump requirements may be rejected by the Owner. All concrete shall be air-entrained. Contractors are required to furnish the name or names of the company(s) that will be providing the mix. The Owner reserves the right to disapprove any concrete supplier that has been known to supply an undesirable material to the Owner on previous occasions.

8.0 DEPOSITING CONCRETE

4.1. Preparation for Placing Concrete: Before depositing concrete, the Contractor shall:

1. Remove from space to be occupied by concrete all debris, including snow, ice, and water unless otherwise permitted by Owner.
 2. Provide diversion, satisfactory to Owner, of any flow of water to an excavation to avoid washing the freshly deposited concrete.
 3. Coat the forms prior to placing of reinforcing steel as required in form work.
 4. Secure firmly in correct position, all reinforcement and other items to be encased and remove therefrom all coating including ice and frost.
- B. Transportation of Concrete from Batch Plant: The concrete shall be delivered to the site of the work and discharge shall be completed within 90 minutes after addition of the cement and water to the aggregates. Each batch of concrete delivered at the job site shall be



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accompanied by a time slip issued at the batching plant, bearing the time of charging of the mixer drum with the cement and aggregates.

- C. Transporting of Concrete from Mixer to Place of Final Deposit: Transportation shall be done as rapidly as practical by means which shall prevent the separation or loss of the ingredients. If chutes are used, they shall be at a slope not flatter than one vertical to two horizontal. Buggies or carts shall be equipped with pneumatic rubber tires or surfaces of runways shall be sufficiently smooth or both so as not to cause separation or segregation of concrete ingredients. Concrete shall not be allowed to drop freely more than 4 feet. Where greater drops are required, canvas "elephant trunks" or galvanized iron chutes equipped with suitable hopper heads shall be employed and a sufficient number placed to ensure that the concrete may be effectively compacted into horizontal layers not exceeding 12 inches in thickness with minimum lateral movements.
- D. Depositing of Concrete: Depositing of concrete shall:
1. Proceed continuously after once starting until reaching the end of a section of construction joint location shown on the drawings, or as approved by the Owner. The operations shall be conducted so that no concrete is deposited on concrete sufficiently hardened to cause formation of seams, and planes of weakness.
 2. Be as near as practical to its final position in the forms.
 3. Proceed to maintain constantly a top surface which is approximately level.
 4. Be placed before initial set has occurred, and in no event after it has contained its water content for more than 90 minutes.
 5. Be thoroughly worked and compacted by means of suitable tools to provide impermeability, durability and strength and shall be thoroughly worked around reinforcements and embedded items and into corners of forms and to be free from voids, pockets or honeycombing. Care shall be taken to provide impermeability.
- E. Vibration Equipment: Vibration equipment shall be of the appropriate type and shall, always, be adequate in number of units and power of each unit to properly consolidate all concrete.



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- F. Monolithic Pours: Proper delivery of concrete shall be the Contractor's responsibility to make a mono-lithic pour without delays and changes of cold joints.

9.0 CURING

All concrete work shall be protected from injurious action by the sun, rain, flowing water, frost and other injury and shall be covered with plastic after application of curing compound for three (3) days on pours located above ground.

Contractor shall not remove any formwork for a minimum period of 24 hours after a concrete pour without written approval of the Owner.

10.0 CONCRETE FINISHES

Finishes of all exposed concrete shall be free of defects which impair its durability or adversely affect its appearance. All such surfaces when stripped, shall be uniform in appearance and any surfaces displaying any deviations from adjacent uniform surfaces shall be rejected and subject to removal.

Finished work shall be level and plumb, true to lines, and dimensions. Finished plane surfaces shall be smooth, and as nearly perfect as practical; however, deviations from a true plane shall not exceed 1/8 inch when measured from a 6-foot straight edge placed against the surface to any point on the surface and under the straight edge.

All exposed surfaces shall have defects corrected, protrusions removed, and holes filled.



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APPENDIX A BORING LOGS

Client Name <u>Appalachian Wireless</u>	Hole Number <u>B-1</u>	Total Depth <u>19.6</u>
Project Name <u>Whitehouse Tower</u>	Location <u>as staked</u>	
Site Location <u>Jenkins</u>	Surface Elevation <u>N/A</u>	
Drilling/Sampling Method <u>HSA</u>	Date Started <u>10/17/2020</u>	Date Completed <u>10/17/2020</u>
Boring Diameter <u>8'</u>	Driller <u>G Hom</u>	Weather _____

From To	Soil and Rock Description	Sample/Run Interval	Blow Counts/RQD	Sample/Run No.	Sample Type	% Recovery
0.0-2	Topsoil	2.0 3.5	10-10-8	1	spt	
		4.5 6.0	7-5-5	2	spt	
.2-17.1	Mine Spoil	7.0 8.5	4-8-4	3	spt	
		9.5 11.0	2-3-4	4	spt	
17.1-19.6	Gray Weathered Shale	14.5 16.0	1-2-3	5	spt	
		19.5 19.6	50/1	6	spt	
	Refusal @ 19.6'					

Water Level @ Drilling None 24 Hr. Water Level _____ 7 Day Water Level _____
 Moving/Delay Time _____ Hammer Weight 140 lbs. Hammer Drop 30 in.

Client Name <u>Appalachian Wireless</u>			Hole Number <u>B-2</u>		Total Depth <u>34.6</u>	
Project Name <u>Whitehouse Tower</u>			Location <u>as staked</u>			
Site Location <u>Jenkins</u>			Surface Elevation <u>N/A</u>			
Drilling/Sampling Method <u>HSA</u>			Date Started <u>10/16/2020</u>		Date Completed <u>10/16/2020</u>	
Boring Diameter <u>8'</u>			Driller <u>G Horn</u>		Weather _____	
From To	Soil and Rock Description	Sample/Run Interval	Blow Counts/RQD	Sample/Run No.	Sample Type	% Recovery
0.0-2	Topsoil	2.0 3.5	4-4-5	1	spt	
		4.5 6.0	8-17-8	2	spt	
.2-19.5	Mine Spoil	7.0 8.5	1-2-2	3	spt	
		9.5 11.0	4-16-9	4	spt	
19.5-24.6	Gray Weathered Shale	14.5 14.7	50/2	5	spt	
		19.5 19.8	50/3	6	spt	
		24.5 24.6	50/1	7	spt	
	Refusal @ 24.6	24.6 34.6	7%	1	NX	83%
24.6-34.6	Gray Shale					

Water Level @ Drilling None 24 Hr. Water Level _____ 7 Day Water Level _____
 Moving/Delay Time _____ Hammer Weight 140 lbs. Hammer Drop 30 in.

FIELD BORING LOG

Client Name <u>Appalachian Wireless</u>	Hole Number <u>B-3</u> Total Depth <u>19.9</u>
Project Name <u>Whitehouse Tower</u>	Location <u>as staked</u>
Site Location <u>Jenkins</u>	Surface Elevation <u>N/A</u>
Drilling/Sampling Method <u>HSA</u>	Date Started <u>10/16/2020</u> Date Completed <u>10/16/2020</u>
Boring Diameter <u>8'</u>	Driller <u>G Horn</u> Weather _____

From To	Soil and Rock Description	Sample/Run Interval	Blow Counts/RQD	Sample/Run No.	Sample Type	% Recovery
0.0-2	Topsoil	2.0 3.5	14-22-21	1	spt	
		4.5 6.0	10-11-11	2	spt	
.2-19.5	Mine Spoil	7.0 8.5	13-16-17	3	spt	
		9.5 11.0	4-10-7	4	spt	
19.5-19.9	Gray Weathered Shale	14.5 16.0	3-2-6	5	spt	
		19.5 19.9	50/4	6	spt	

Water Level @ Drilling <u>None</u>	24 Hr. Water Level _____	7 Day Water Level _____
Moving/Delay Time _____	Hammer Weight <u>140 lbs.</u>	Hammer Drop <u>30 in.</u>

FIELD BORING LOG

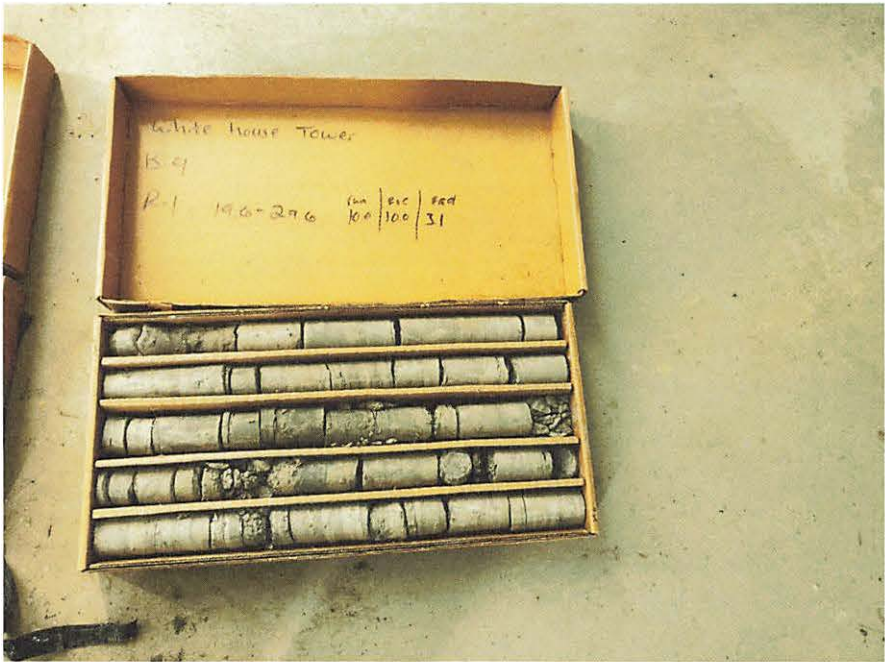
Client Name <u>Appalachian Wireless</u>	Hole Number <u>B-4</u> Total Depth <u>29.6</u>
Project Name <u>Whitehouse Tower</u>	Location <u>as staked</u>
Site Location <u>Jenkins</u>	Surface Elevation <u>N/A</u>
Drilling/Sampling Method <u>HSA</u>	Date Started <u>10/17/2020</u> Date Completed <u>10/17/2020</u>
Boring Diameter <u>8'</u>	Driller <u>G Horn</u> Weather <u></u>

From To	Soil and Rock Description	Sample/Run Interval	Blow Counts/RQD	Sample/Run No.	Sample Type	% Recovery
0.0-.2	Topsoil	2.0 3.5	10-12-13	1	spt	
		4.5 6.0	4-5-3	2	spt	
.2-17.1	Mine Spoil	7.0 8.5	3-13-50/4	3	spt	
		9.5 11.0	7-4-3	4	spt	
17.1-19.6	Gray Weathered Shale	14.5 14.7	4-7-7	5	spt	
		19.5 19.6	50/1	6	spt	
	Refusal @ 19.6	19.6 29.6	31 %	1	NX	100%
19.6-29.6	Gray Shale					

Water Level @ Drilling None 24 Hr. Water Level 7 Day Water Level
 Moving/Delay Time Hammer Weight 140 lbs. Hammer Drop 30 in.



APPENDIX B CORE PHOTOGRAPHS





EAST KENTUCKY ENGINEERING, LLC.

APPENDIX C SEISMIC DATA



APPENDIX D PHOTOGRAPHS





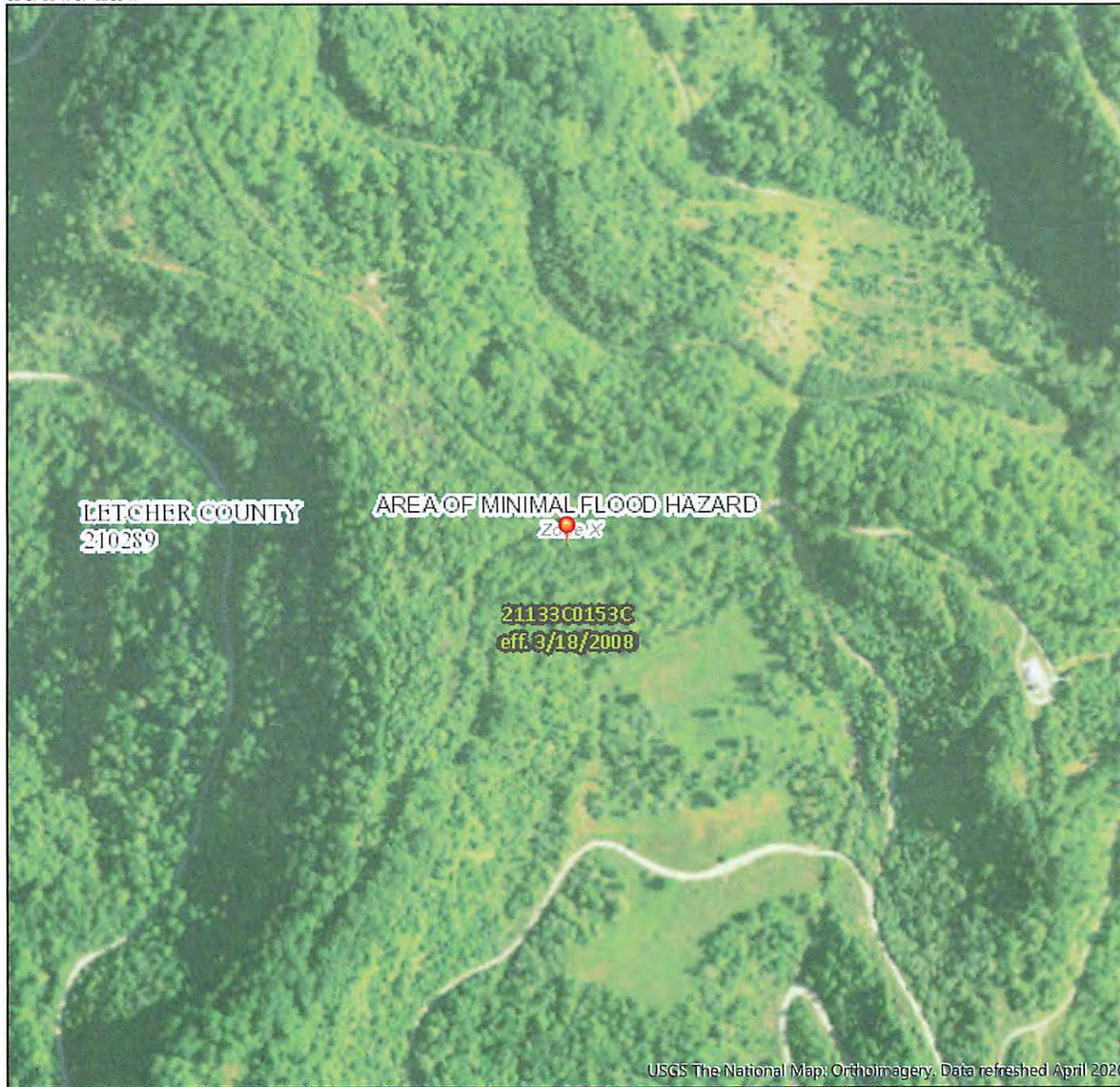
EAST KENTUCKY ENGINEERING, LLC.

**APPENDIX E
MAPS**

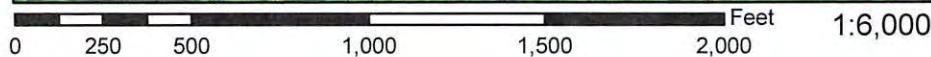
National Flood Hazard Layer FIRMette



82°37'11"W 37°12'59"N



USGS The National Map: Orthoimagery. Data refreshed April 2020



82°36'34"W 37°12'30"N

Legend

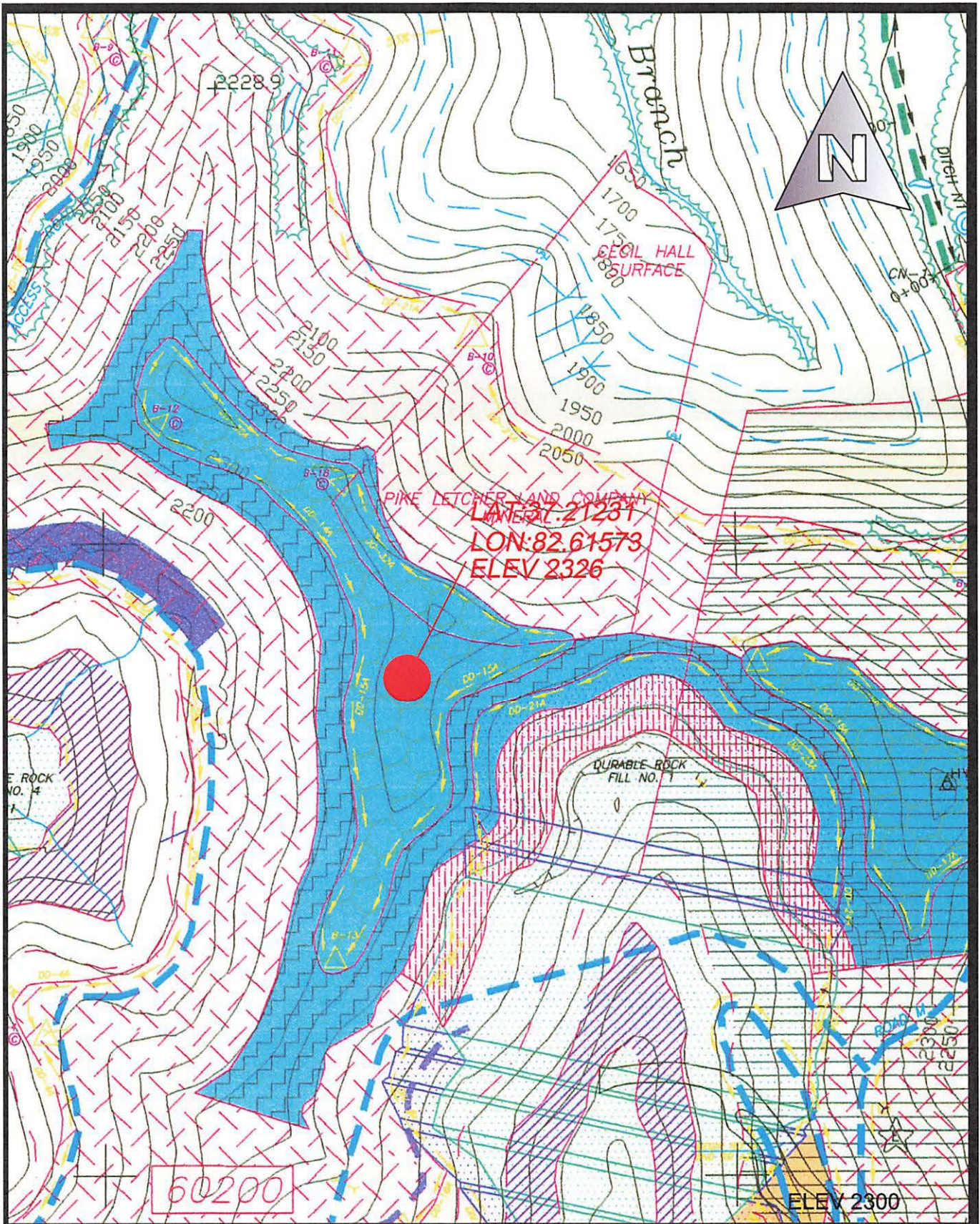
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | |
|------------------------------------|---|
| SPECIAL FLOOD HAZARD AREAS | <ul style="list-style-type: none"> Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | <ul style="list-style-type: none"> NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> Effective LOMRs Area of Undetermined Flood Hazard <i>Zone D</i> |
| GENERAL STRUCTURES | <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |
| OTHER FEATURES | <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature |
| MAP PANELS | <ul style="list-style-type: none"> Digital Data Available No Digital Data Available Unmapped |
-
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **6/17/2020 at 9:59 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Drawn:RDS Date: 8/10/2020
 Job:165-0103 Scale:1"= 400'
 Drawing:
 Tool Palette EKYENG

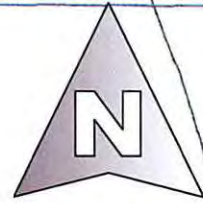
HIGHWALL MINING CONTRACTORS INC.
 SURFACE MINING EXCERPT MAP
 ALL SEAMS



East Kentucky Engineering, LLC

230 Swartz Drive
 Hazard, KY 41701
 (606) 551-1050

N 1977500



SOUTH AKERS MINING HAZARD #4 SEAM OVERLAY MAP

SCALE: 1" = 400'

LAT: 37 21231
LON: 82 61573
ELEV: 23261



ELEV 2120

Drawn: RDS Date: 8/10/2020

Job: 165-0103 Scale: 1" = 400'

Drawing:

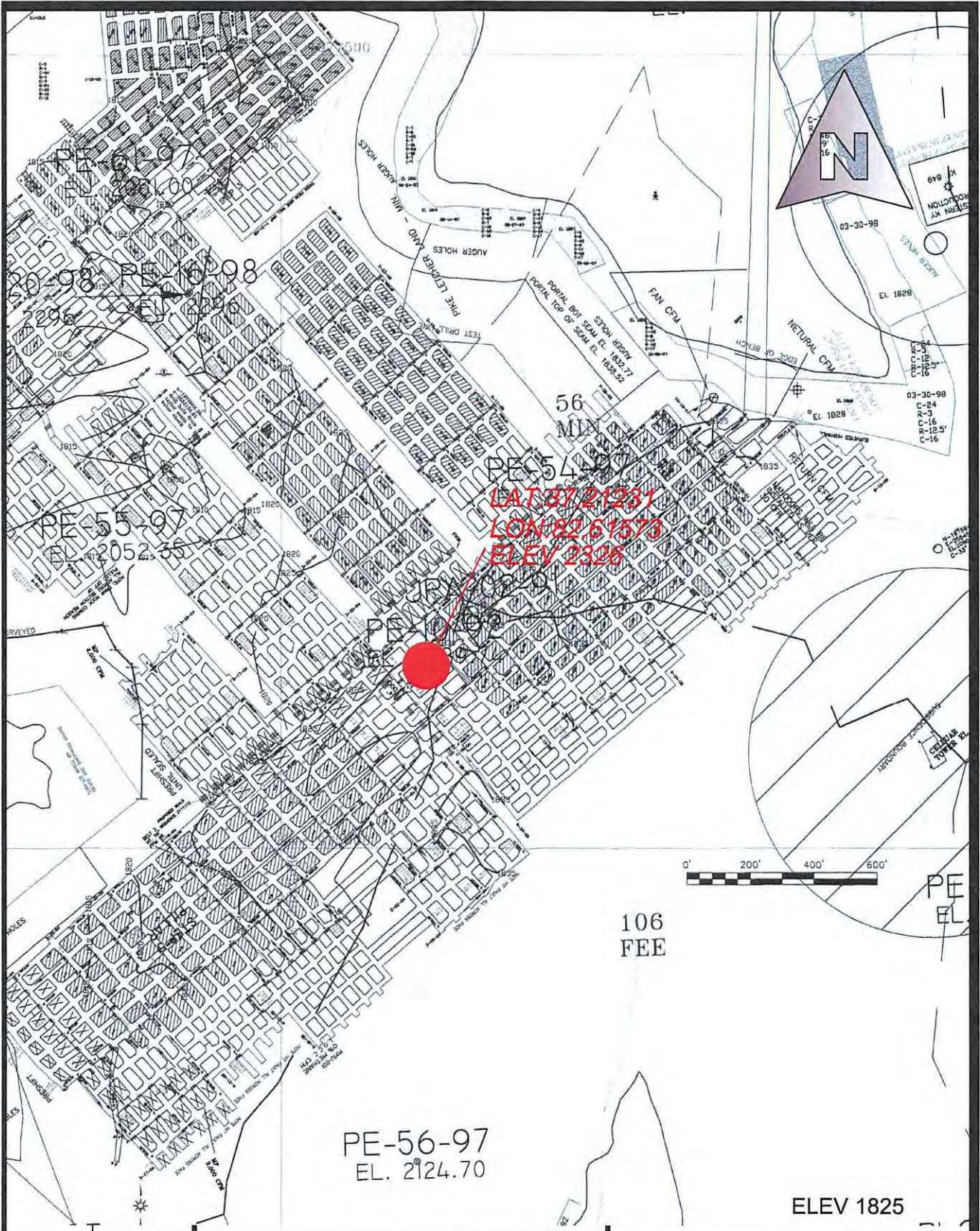
Tool Palette EKYENG

SOUTH AKERS OVERLAY MAP HAZARD NO 4 EXCERPT MAP



East Kentucky Engineering, LLC

230 Swartz Drive
Hazard, KY 41701
(606) 551-1050



LAT 37.21231
 LON 82.61573
 ELEV 2326

PE-56-97
 EL. 2124.70

106
 FEE

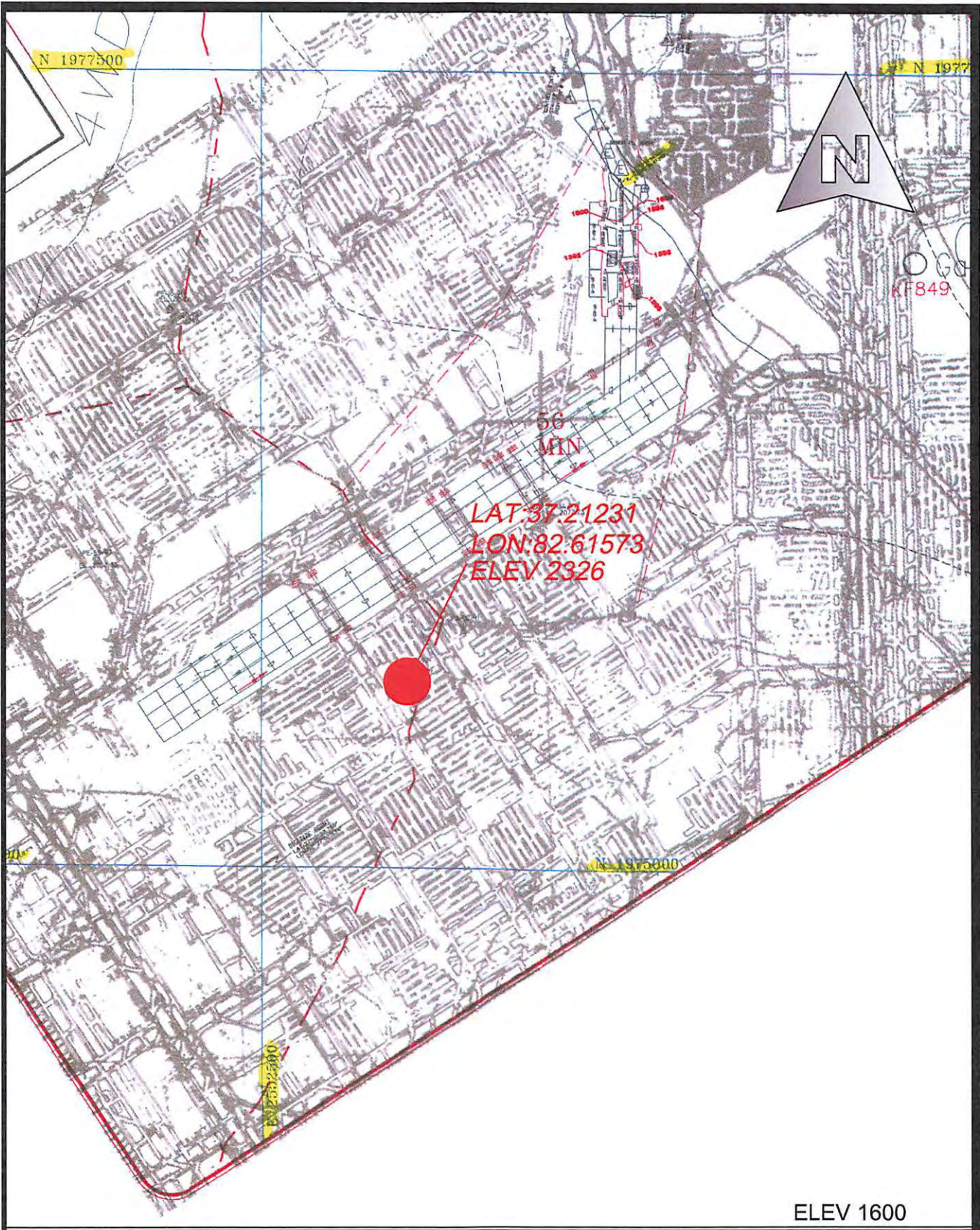
ELEV 1825

Drawn:RDS Date: 8/10/2020
 Job:165-0103 Scale: 1"= 400'
 Drawing:
 Tool Palette EKYENG

**SOUTH AKERS MINNG COMAPNY
 UPPER AMBURGEY SEAM
 EXCERPT FINAL MAP**



East Kentucky Engineering, LLC
 230 Swartz Drive
 Hazard, KY 41701
 (606) 551-1050



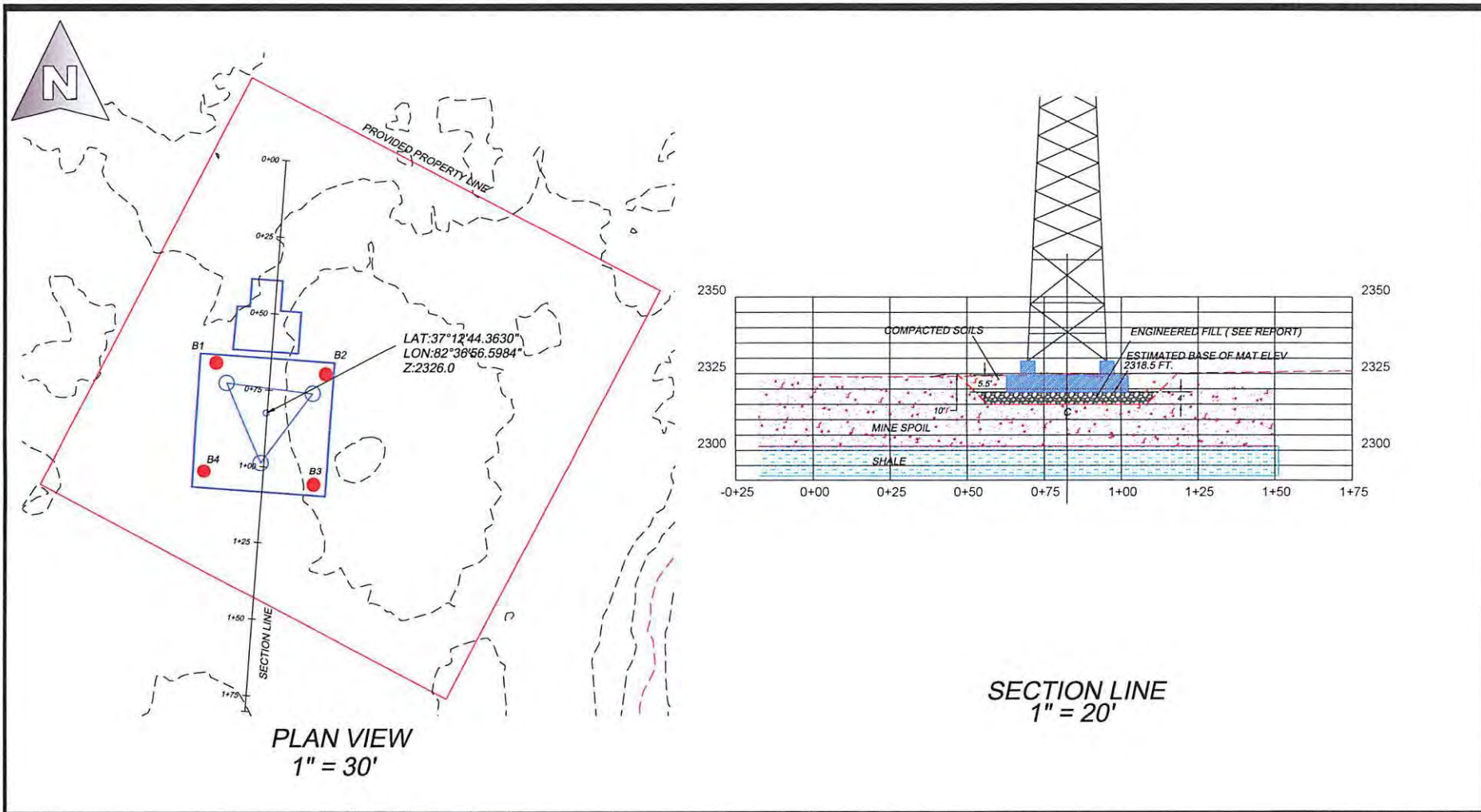
Drawn: RDS	Date: 8/10/2020
Job: 165-0103	Scale: 1" = 400'
Drawing:	
Tool Palette EKYENG	

**PREMIER ELKHORN &
 EMILY ENTERPRISES INC
 ELKHORN 2 & 3 SEAM MAP
 EXCERPT MAP**



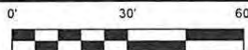
East Kentucky Engineering, LLC

230 Swartz Drive
 Hazard, KY 41701
 (806) 551-1050



East Kentucky Engineering, LLC

230 Swartz
Hazard, KY 41701
(606) 551-1050
Email: ekyeng@ekyeng.net



Drawn by: RDS	8/12/2020
Job #: 165-0105	Scale: 1" = AS NOTED
File Location:	

APPALACHIAN WIRELESS
PROPOSED TOWER LOCATION
WHITEHOUSE TOWER
LETCHER COUNTY KENTUCKY

Exhibit 5

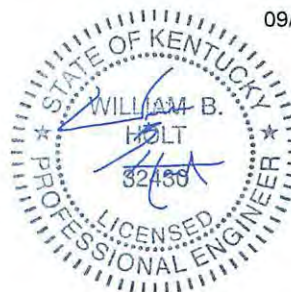


World Tower
COMPANY, INC.

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

**350' MODEL WSST TOWER
FOR: EAST KENTUCKY NETWORK
SITE: WHITEHOUSE/ JENKINS
LETCHER COUNTY, KY
DESIGN PACKAGE**

09/15/2020

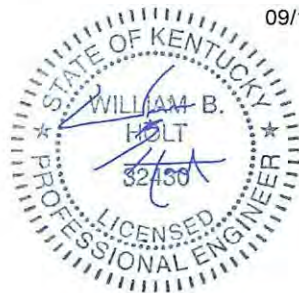


Fabrication, Installation, and Maintenance of TV, AM, FM, & Wireless Communications Towers

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.

09/15/2020

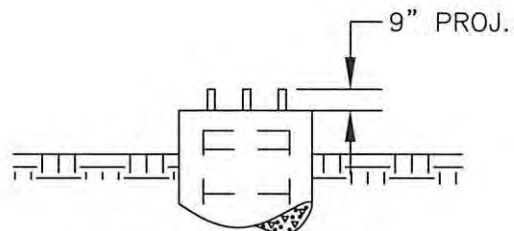


WORLD TOWER

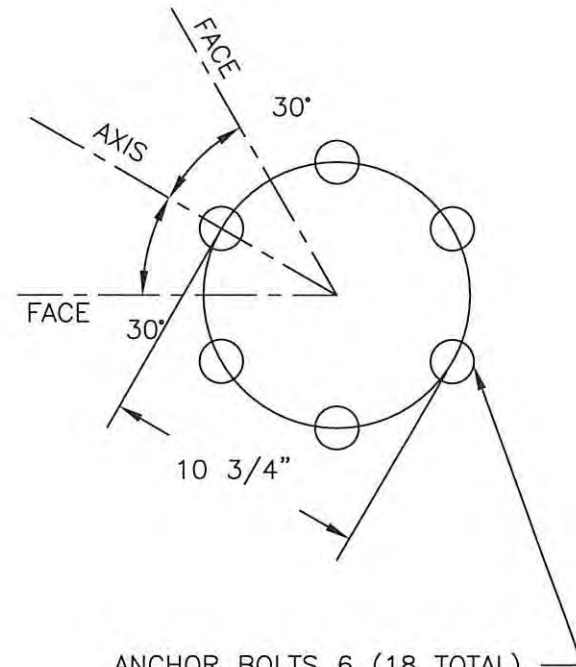
TITLE:

350' TYPE WSST TOWER
FOR: EAST KENTUCKY NETWORK
SITE: WHITEHOUSE/ JENKINS
LETCHER COUNTY, KY

SCALE	DWN.	LKG	CKD.	DATE 9-11-20
			DWG. NO.	Q200743N

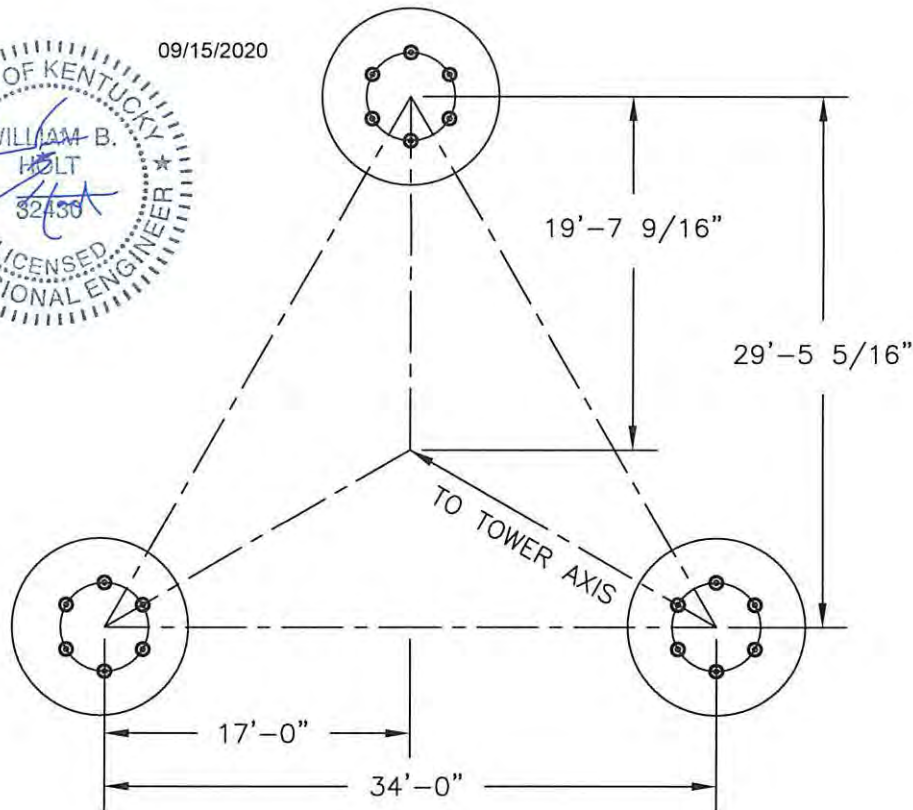
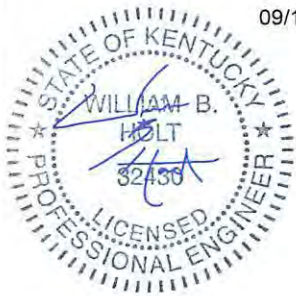


PIER ELEVATION



ANCHOR BOLTS 6 (18 TOTAL)
1 1/2"Ø X 78" ASTM F1554-105
EQUALLY SPACED WITH TOP TEMPLATE
AND EMBEDDED PLATE

09/15/2020



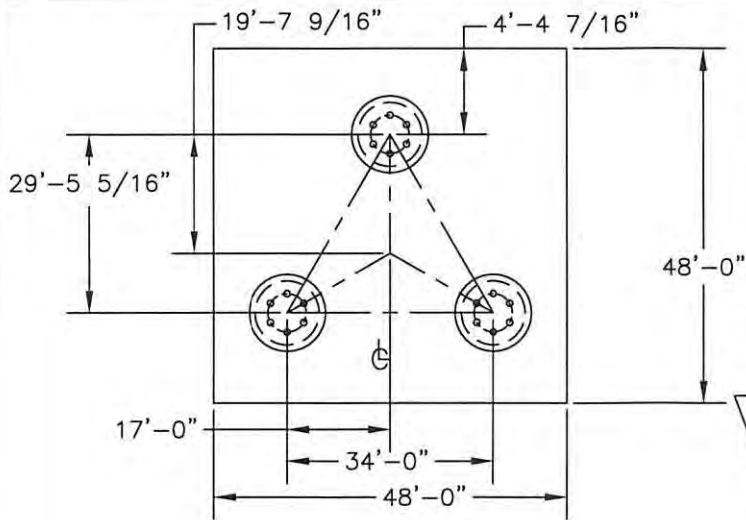
WORLD TOWER

TITLE:

ANCHOR BOLT LAYOUT
350' MODEL WSST TOWER
FOR: EAST KENTUCKY NETWORK
SITE: WHITEHOUSE/ JENKINS
LETCHER COUNTY, KY

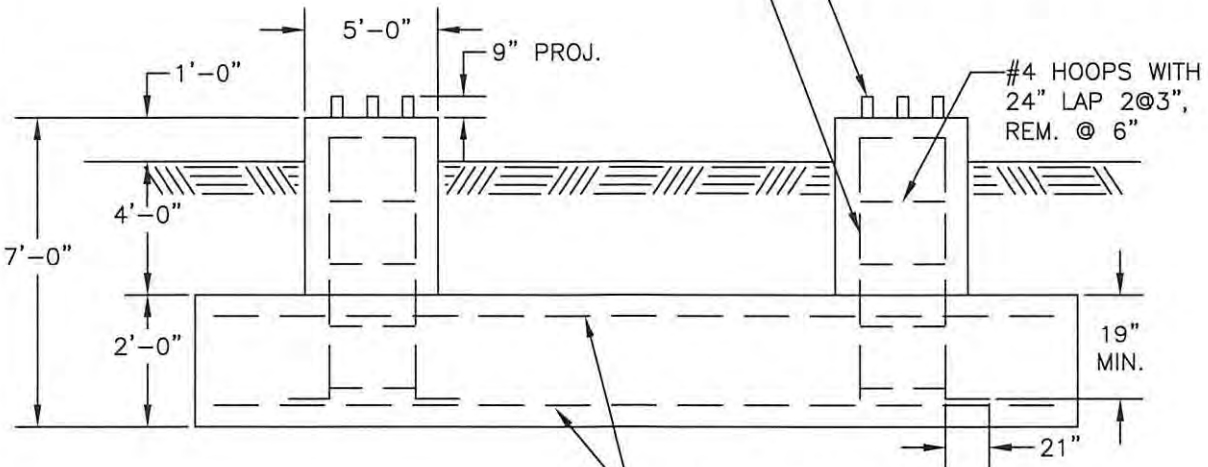
SCALE NONE DWN. LKG CKD. DATE 9-11-20

FILE DWG. NO. Q200743AB



181.6 CU. YDS.
CONCRETE REQ'D.

BASE REACTIONS	
OTM:	19425.0 FT. KIPS
COMP.	705.0 KIPS
UPLIFT	586.0 KIPS
SHEAR (3 LEGS)	103.0 KIPS
WT. NO ICE	136.0 KIPS
WT. 1/2" ICE	302.0 KIPS



20 #9 VERT. REBAR
WITH 90° A.C.I. BEND
AT BOTTOM

ANCHOR BOLTS
EMBEDDED PLATE AT BOTTOM

#4 HOOPS WITH
24" LAP 2@3",
REM. @ 6"

60-#9 REBAR
EACH WAY TOP AND BOTTOM
(240 TOTAL)

GENERAL NOTES

1. CONCRETE TO HAVE 4500 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCEMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM EAST KENTUCKY ENGINEERING, LLC. PROJECT NUMBER 165-000-0103 DATED AUGUST 12, 2020.
5. OVER EXCAVATION AND BACKFILL REQUIRED. SEE GEOTECHNICAL REPORT FOR DETAILS.

09/15/2020

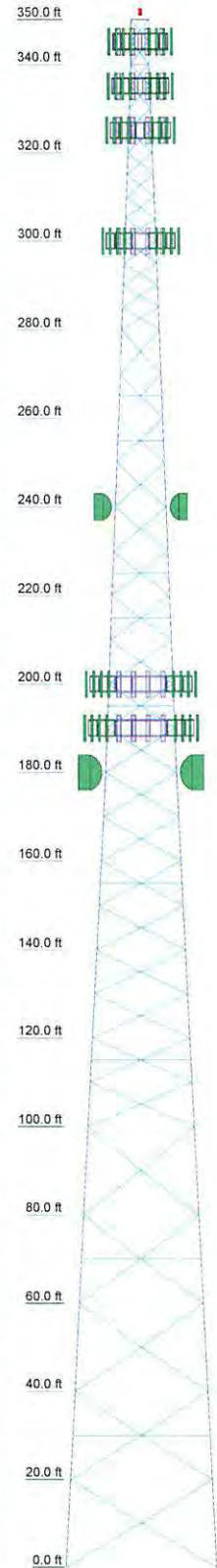


TITLE: FOUNDATION DETAIL
350' MODEL WSST TOWER
FOR: EAST KENTUCKY NETWORK
SITE: WHITEHOUSE/ JENKINS
LETCHER COUNTY, KY

WORLD TOWER

SCALE NONE	DWN.	LKG	CKD.	DATE 9-11-20
FILE	DWG. NO. Q200743F			

Section	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 5	SR 4 3/4	SR 4 3/4	SR 4 3/4	SR 4 1/4	SR 4	SR 3 3/4	SR 3 3/4	SR 3 1/2	SR 3 1/4	SR 3	SR 3 3/4	SR 3 1/4	SR 3	SR 2 3/4	SR 2 1/2	SR 2	A
Leg Grade	L4x4x3/8	L4x4x5/16	L4x4x5/16	L4x4x1/4	L4x4x1/4	L4x4x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L2 1/2x3 1/2x1/4	L2x2x1/8	
Diagonal Grade																		
Top Grirts																		
Horizontals	L5x5x5/16	L4x4x3/8	L4x4x5/16	L4x4x1/4	L4x4x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L2 1/2x3 1/2x1/4	N.A.	
Red Horizontals	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	N.A.
Red Diagonals	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	L3x3x1/4	N.A.
Inner Bracing	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	L4x4x1/4	N.A.
Face Width (ft)	34	30	28	26	24	22	20	18	16	14.5	13	11.5	10	8.5	7	5.5	4	
# Panels @ (ft)		10 @ 10																
Weight (K)	82.0	93	82	69	63	59	53	46	42	38	34	34	27	22	19	16	11	0.5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Beacon Lighting	350	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	300
Lightning Rod 5/8x4"	350		
WD13X53 Antenna Mounting Frame	345	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	300
WD13X53 Antenna Mounting Frame	345		
WD13X53 Antenna Mounting Frame	345	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	300
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	345	(4) RRU-12	300
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	345	(4) RRU-12	300
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	345	(4) RRU-12	300
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	345	Dish Mount	240
(4) RRU-12	345	Dish Mount	240
(4) RRU-12	345	6 FT DISH	240
(4) RRU-12	345	6 FT DISH	240
(4) RRU-12	345	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	200
WD13X53 Antenna Mounting Frame	335	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	200
WD13X53 Antenna Mounting Frame	335		
WD13X53 Antenna Mounting Frame	335	(4) RRU-12	200
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	335	(4) RRU-12	200
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	335	WD13X53 Antenna Mounting Frame	200
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	335	WD13X53 Antenna Mounting Frame	200
(4) RRU-12	335	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	200
(4) RRU-12	335		
(4) RRU-12	335	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	190
WD13X53 Antenna Mounting Frame	325	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	190
WD13X53 Antenna Mounting Frame	325		
WD13X53 Antenna Mounting Frame	325	(4) RRU-12	190
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	325	(4) RRU-12	190
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	325	WD13X53 Antenna Mounting Frame	190
(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	325	WD13X53 Antenna Mounting Frame	190
(4) RRU-12	325	WD13X53 Antenna Mounting Frame	190
(4) RRU-12	325	(4) Commscope NN-65A-M w/ mt. pipe* (54.9" x 26.9" x 7.1")	190
(4) RRU-12	325	8 FT DISH	180
WD13X53 Antenna Mounting Frame	300	8 FT DISH	180
WD13X53 Antenna Mounting Frame	300	Dish Mount	180
WD13X53 Antenna Mounting Frame	300	Dish Mount	180

SYMBOL LIST

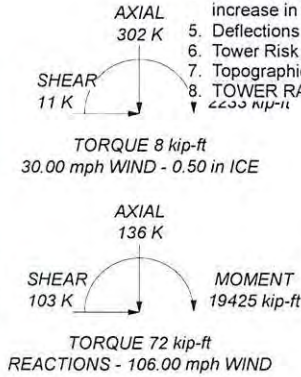
MARK	SIZE	MARK	SIZE
A	SR 1 3/4	B	L2 1/2x2 1/2x3/16

ALL REACTIO ARE FACTOR

MAX. CORNE

DOWN: 705 K
SHEAR: 66 K

TORQUE 8 kip-ft
30.00 mph WIND - 0.50 in ICE



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 Letcher County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 106.00 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30.00 mph basic wind with 0.50 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. TOWER RATING: 98.9%

09/15/2020



World Tower Company	Job: 350' WSST Tower / Run Q200743
1212 Compressor Drive Mayfield, KY 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	Project: Whitehouse Client: Appalachian Wireless Code: TIA-222-G Path: E:\World Tower\2019\KY\Q200743_JenkinsAnalysis\Q200743.en
	Drawn by: WBH Date: 09/03/20 Scale: NTS Dwg No: E-1

Exhibit 6



ANDY BESHEAR
Governor

KENTUCKY AIRPORT ZONING COMMISSION

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

APPROVAL OF APPLICATION

August 13, 2020

APPLICANT

East Kentucky Network, LLC
Cindy McCarty
101 Technology Trail
Ivel, KY 41642

SUBJECT: AS-LETCHER-PBX-2020-064

STRUCTURE: Antenna Tower
LOCATION: Whitesburg, KY
COORDINATES: 37° 12' 44.36" N / 82° 36' 56.59" W
HEIGHT: 360' AGL/2684' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 360' AGL/2684' AMSL Antenna Tower near Whitesburg, KY 37° 12' 44.36" N / 82° 36' 56.59" 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 Intensity White Obstruction Lighting Required

Randall S. Royer

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



An Equal Opportunity Employer M/F/D



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

Aeronautical Study No.
 2020-ASO-16195-OE

Issued Date: 06/09/2020

Cindy D. McCarty
 East Kentucky Network, LLC
 101 Technology Trail
 Ivel, KY 41642

**** 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 Whitehouse
Location:	Whitesburg, KY
Latitude:	37-12-44.36N NAD 83
Longitude:	82-36-56.59W
Heights:	2324 feet site elevation (SE) 360 feet above ground level (AGL) 2684 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, 24-hr med-strobes - Chapters 4,6(MIWOL),&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 of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

The use of a 24-hour medium intensity flashing white light system in urban and rural areas often results in complaints.

This determination expires on 12/09/2021 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 (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-16195-OE.

Signature Control No: 441696284-442425176
Stephanie Kimmel
Specialist

(DNE)

Attachment(s)
Case Description
Frequency Data

Map(s)

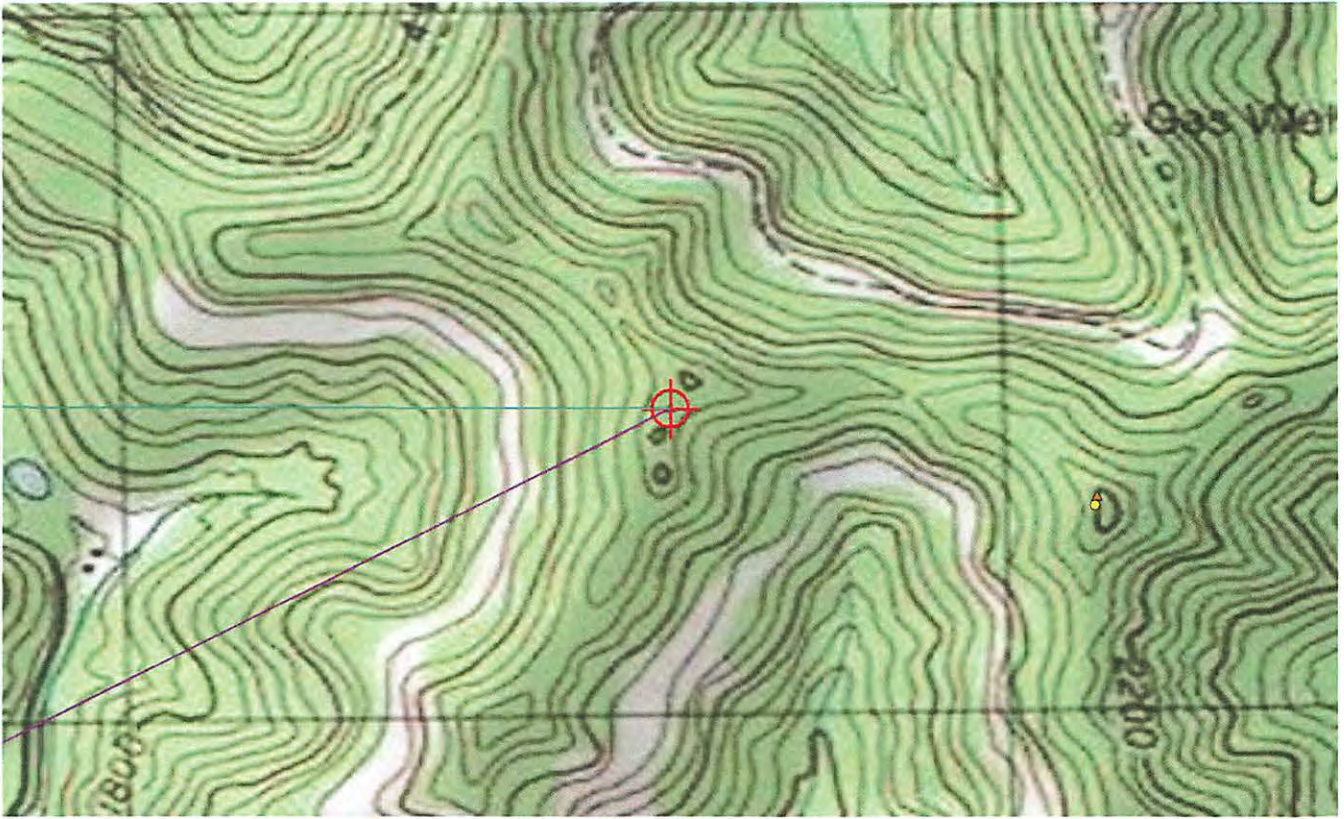
cc: FCC

Case Description for ASN 2020-ASO-16195-OE

A new 350' self supporting tower with top mounted antennas (overall height of 360' AGL)

Frequency Data for ASN 2020-ASO-16195-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W



TOPO Map for ASN 2020-ASO-16195-OE



Exhibit 7

Driving Directions for Whitehouse

1. Beginning at 156 Main Street, Whitesburg, KY, head southwest on Main Street toward Library Street approximately 0.1 miles.
2. Turn left onto E Main Street and drive approximately 492ft. E Main Street turns right and becomes Madison Street.
3. Madison Street turns left and becomes 5th Street.
4. Turn right onto KY-15 BUS S/Jenkins Road and travel approximately 1.1 miles.
5. Continue straight onto Jenkins Road for 0.8 miles.
6. Turn left onto US-119N and travel approximately 9.9 miles.
7. Slight right onto US 119N/US-23N and travel approximately 3.3 miles.
8. Turn right onto Joes Branch Road and travel approximately 0.3 miles.
9. Turn right onto White House Hollow Road. Access road will begin at gate (sign posted)
10. Go through gate and travel approximately 1.6 miles.
11. Walk approximately 0.2 miles to proposed site (sign posted).

Prepared By:
Daryl Bartley
Appalachian Wireless
(606) 791-0310

Whitehouse


Location:

395 Linran Drive
Jenkins, KY 41537

Coordinates:

37° 12' 44.36" N
82° 36' 56.59" W

Legend

 1/2 Mile Search Area

 Proposed Whitehouse Tower

Mega Communications 

Cr-1890

White House Hollow Rd

Left Fork Marshall Branch Rd

Mc Peak Branch Rd

Cr-1404

23

Joes Branch Rd

Google Earth

© 2020 Google



3000 ft

Exhibit 8



MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE is made and entered into on this 25TH day of APRIL, 2020, with a commencement date of May 1, 2020 (the “**Commencement Date**”), by and between **PIKE-LETCHER LAND LLC**, a Kentucky limited liability company, with a mailing address of 6920 Highway 610 West, Myra, Kentucky 41537, hereinafter referred to as “**Lessor**”, and **EAST KENTUCKY NETWORK, LLC D/B/A APPALACHIAN WIRELESS**, a Kentucky limited liability company, with a mailing address of 101 Technology Trail, Ivel, Kentucky, 41642, hereinafter referred to as “**Lessee.**”

WITNESSETH

1. **Demised Premises.** For good and valuable consideration, Lessor leased to Lessee, and Lessee has leased from Lessor that certain tract of real estate located in Letcher County, Kentucky, and being a portion of the same land conveyed to Lessor (formerly known as Pike-Letcher Land Company) by Deed dated November 20, 1991, and recorded in Deed Book 301, Page 555, in the Letcher County Clerk’s Office, and see also Deed of Correction to Lessor dated December 15, 1995, and recorded in Deed Book 323, Page 431, in the Letcher County Clerk’s Office. Said property is more particularly described in the description **attached** hereto and made a part hereof as **Exhibit A** and the plat **attached** hereto and made a part hereof as **Exhibit B** (hereinafter referred to as the “**Premises**”). The Lessor has also granted unto Lessee full and complete rights of ingress, egress and regress to and from the Premises over any property owned by Lessor and other associated rights for installation of utilities, maintenance, and other purposes.

2. **Term.** The initial term of the Lease is for a period of five (5) years from the Commencement Date set forth above.

3. **Renewals.** The Lease shall automatically renew for an additional seven (7) terms of five (5) years each, unless Lessee provides sixty (60) days written notice prior to the end of the current term that it does not wish to renew.

4. **Binding Effect.** All of the terms, conditions, and covenants hereof shall be binding and inure to the benefit of the parties and their respective heirs, representatives, successors, and assigns.


5. **Purpose.** This Memorandum of Lease is prepared solely for the purpose of recordation, and is not intended to, nor shall it be deemed to, modify any of the terms and conditions set forth in the Lease, nor to construe any of the rights, duties or responsibilities of Lessor and Lessee. In the event of any conflict between the terms and conditions of this Memorandum and the terms and conditions of the Lease, the terms and conditions of the Lease shall supersede and control.

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

IN WITNESS WHEREOF, Lessor and Lessee have caused their names to be signed hereto, as of the date(s) indicated below.

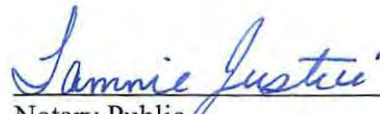
LESSOR:

PIKE-LETCHER LAND LLC


By: J. Mark Campbell
Its: President

COMMONWEALTH OF KENTUCKY
COUNTY OF Pike

The foregoing instrument was acknowledged before me on this 20th day of April, 2020, by J. Mark Campbell the President of Pike-Letcher Land LLC, Lessor.


Notary Public
Commission No.: 596343

My Commission Expires March 1, 2022

[SIGNATURES CONTINUE ON NEXT PAGE.]

LESSEE:
EAST KENTUCKY NETWORK, LLC D/B/A
APPALACHIAN WIRELESS

W A Gillum

By: W.A. Gillum

Its: CEO/ General Manager

COMMONWEALTH OF KENTUCKY
COUNTY OF Floyd

The foregoing instrument was acknowledged before me on this 1 day of May, 2020, by W.A. Gillum, CEO/General Manager of East Kentucky Network, LLC d/b/a Appalachian Wireless.

Raena D. Nett

Notary Public

Commission No.: KYNP375

My Commission Expires 2-6-2024

This instrument was prepared by:

Cindy D. McCarty

Cindy D. McCarty, Attorney
101 Technology Trail
Ivel, Kentucky 41642
(606) 477-2355

Description
Pike Letcher Land Company
to
East Kentucky Network
d/b/a Appalachian Wireless

A certain tract of land lying on the ridge between Joes Branch of Elkhorn Creek and Grays branch of Johns Fork of Creek, Letcher County, Kentucky and more particularly described as follows.

Unless stated otherwise any monument referred to herein as a Re-Bar and Cap is a set 1/2" steel re-bar eighteen (18") in length with a yellow plastic cap stamped Summit L.S. #2661. All bearings stated herein are referred to Grid North based on NAD 83 Kentucky South Zone State Plane Coordinates.

Beginning at a set Re-Bar and Cap and being S 57°29'02" E 139.95+/- from the boundary line and common corner between property now or formerly owned Alfred Anderson and Pike Letcher Land Company (D.B. 301 Page 555 TR 37 and 106) and (D.B. 323 P. 431) and having Kentucky South NAD83 Coordinates of N 1, 975,692.65 E: 2,552,956.71;

Thence, S 62°22'00" E a distance of 150.00' to a set Re-Bar and Cap;
Thence, S 27°38'18" W a distance of 150.01' to a set Re-Bar and Cap;
Thence, N 62°21'49" W a distance of 149.99' to a set Re-Bar and Cap;
Thence, N 27°38'14" E a distance of 150.00' to a set Re-Bar and Cap to the point of beginning and containing 22,500.34 sq.ft. or 0.517 acres more or less according to a survey conducted by persons under the direct supervision of Peter Howard, PLS 3949 with Summit Engineering, Inc. on February 13th, 2019 and being a portion of Tract Number 37 and Tract 106 in the deed of conveyance from Pike-Letcher Coal Partners et.al., to Pike-Letcher Land Company by deed dated November 20th, 1991 and recorded in Deed Book 301 Page 655 and Deed of Corrections between Branham and Baker Coal Company, Traveler Coal Company and Pike-Letcher Land Company by deed dated December 15, 1995 and recorded in Deed Book 323 Page 431. Both referenced deeds are in the records of the Letcher County Court Clerk's office.

P/H

4/17/2020

Peter Howard, PLS #3949



STATE OF KENTUCKY
COUNTY OF LETCHER

I, WINSTON MEADE, CLERK OF LETCHER COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING Lease WAS ON THIS 17 DAY OF May 2020 AND THIS CERTIFICATE HAVE BEEN RECORDED IN Lease BOOK 68 PAGE 527. WITNESS MY HAND THIS 11 DAY OF May 2020

WINSTON MEADE, CLERK

BY: Angie Back DC

EXHIBIT A



Grid North
KY South
NAD83

Proposed Tower Location:
LAT: 37°12'44.3630"
LON: 82°36'56.5984"
N: 1,975,583.21
E: 2,552,961.11
EL: 2,324 +/-

Point of Beginning:
N: 1,975,692.65
E: 2,552,956.71

S 57°29'02" W 139.95'
From corner of Pike-Letcher
tracts 32 & 106 and corner of
Alfred Anderson

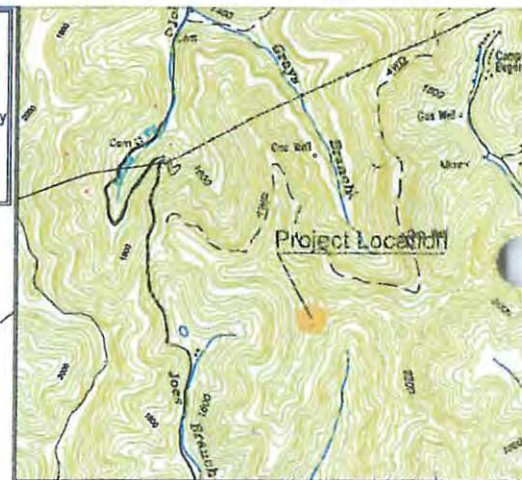
Client Information:
East Kentucky Network, LLC
d/b/a Appalachian Wireless
101 Technology Trail
Ivel, KY 41642

Owner Information:
Pike Letcher Land Company
6920 Highway 810 W
Myra, KY 41537

The tract of land shown hereon is a portion of Tract Number 37 and Tract 106 in the deed of conveyance from Pike-Letcher Coal Partners et al to Pike-Letcher Land Company by deed dated November 20, 1991 and recorded in Deed Book 301 Page 555 in the records of the Letcher County Court Clerk's office.
Also by Deed of Correction between Branham and Baker Coal Company and Traveller Coal Corporation party of the first part and Pike-Letcher Land Company party of the second part by deed dated December 15, 1995 and recorded in Deed Book 323 Page 431 in the records of the Letcher County Court Clerk's office.

Contours shown hereon are based on
LIDAR Mapping and are at 1' intervals

Area of tract of land shown hereon:
22,500 +/- or 0.517 ac +/-



Vicinity Map
Not to Scale
Jenkins East 7 1/2 Minute Quadrangle Map

Surveyor
Peter Howard, PLS #3949
P.O. Box 3007
Pikeville, KY 41502
606-432-1447

TR #
37

N 27°38'14" E
150.00'

Proposed White House
Tower Location

S 62°22'00" E
150.00'

TR #
106

S 27°38'18" W
150.01'

Existing Road

Existing Road

EQT Gas
Line

N 62°21'49" W
149.99'

Flood Hazard Information:
The site shown hereon DOES
NOT LIE with a Flood Hazard
Area.
FEMA Map #21133C0153C
Panel 153 of 375
Effective Date 3/18/2008



The tract of land shown hereon lies on a ridge between Joes Branch of Elkhorn Creek and Grays Branch of Johns Fork of Beefhide Creek in Letcher County, Kentucky.

Legend

⊙ 1/2" re-bar set with a plastic cap
Stamped Summit Engineering, L.S. #2661
Unless otherwise noted.

--- Boundary Line
--- Boundary Parent Tract



SURVEYOR'S STATEMENTS

1. The survey shown hereon was conducted under my direct supervision.
2. The method used was random traverse with sideshots.
3. The mathematical error of closure was 1:5,000 minimum.
4. The bearings and distances were not adjusted for closure.
5. The basis for the bearings Grid North, KY South NAD 83
6. This is a rural survey.
7. This plat of survey represents a Boundary Survey and complies with 201 KAR 18:150

Survey date:
7/13/2019

File Name: EKN White House Plat 7_8_19

Peter Howard LS No. 3949

Date
4/17/2020

DATE: 04/17/2020	FILENAME:	East Kentucky Network d/b/a Appalachian Wireless 101 Technology Trail, Ivel, KY 41642		Pikeville, KY Lexington, KY Henderson, KY S. Charleston, WV
SCALE: 1"=40'	DISK NO.			
DRAWN BY: DM/SEH		Plot Map White House Tower Site Located near the head of Joes Branch of Elkhorn Creek in Letcher Co., Kentucky	285 Humbley Blvd PO Box 3007 Pikeville, KY 41502 606-432-1447	

EXHIBIT B

Exhibit 9

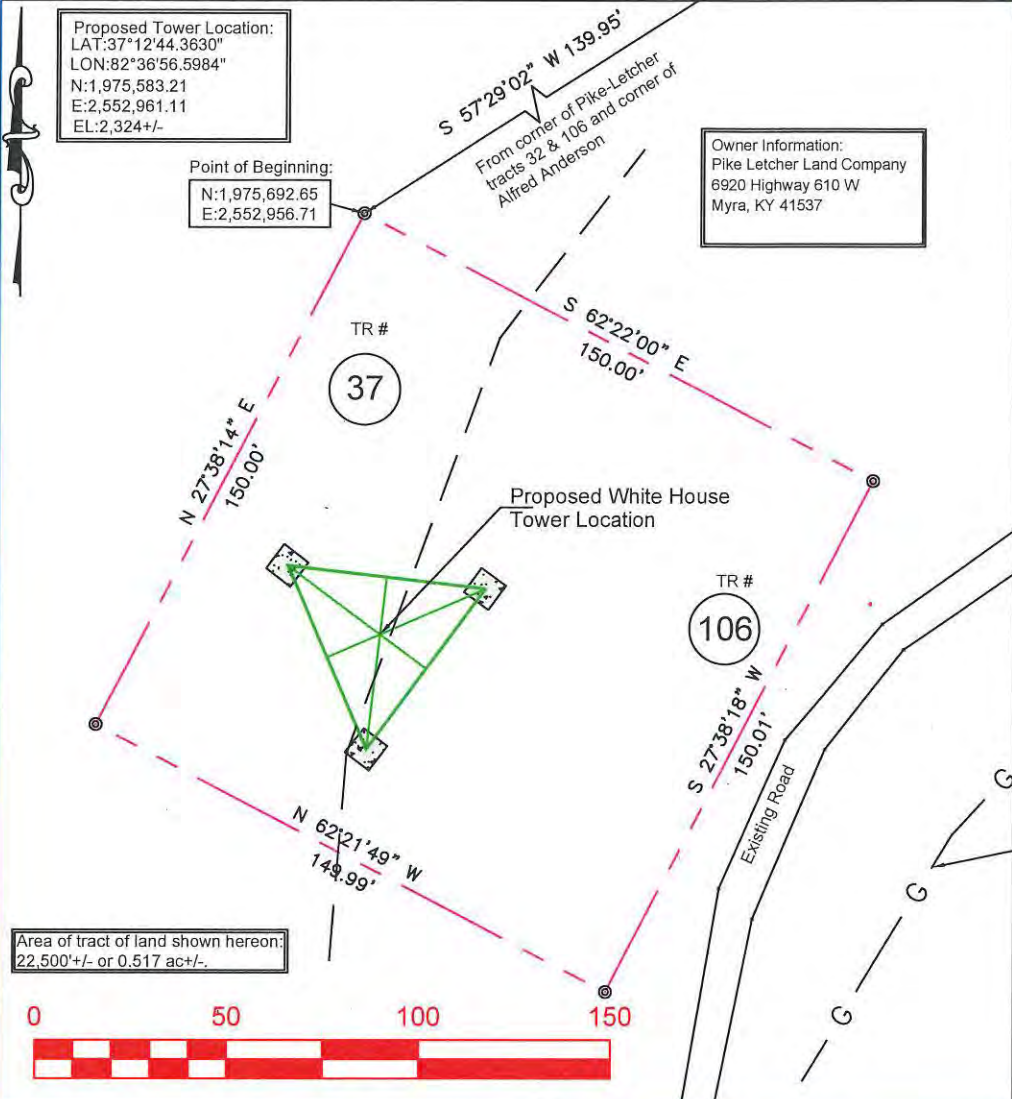
WHITEHOUSE TOWER

SITE SURVEY WITH PROPOSED TOWER

Proposed Tower Location:
LAT: 37°12'44.3630"
LON: 82°36'56.5984"
N: 1,975,583.21
E: 2,552,961.11
EL: 2,324 +/-

Point of Beginning:
N: 1,975,692.65
E: 2,552,956.71

Owner Information:
Pike Letcher Land Company
6920 Highway 610 W
Myra, KY 41537



Area of tract of land shown hereon:
22,500 +/- or 0.517 ac +/-



Legend

⊙ 1/2" re-bar set with a plastic cap stamped Summit Engineering, L.S. #3949 unless otherwise noted.

--- Boundary
--- Adjoining Property Lines

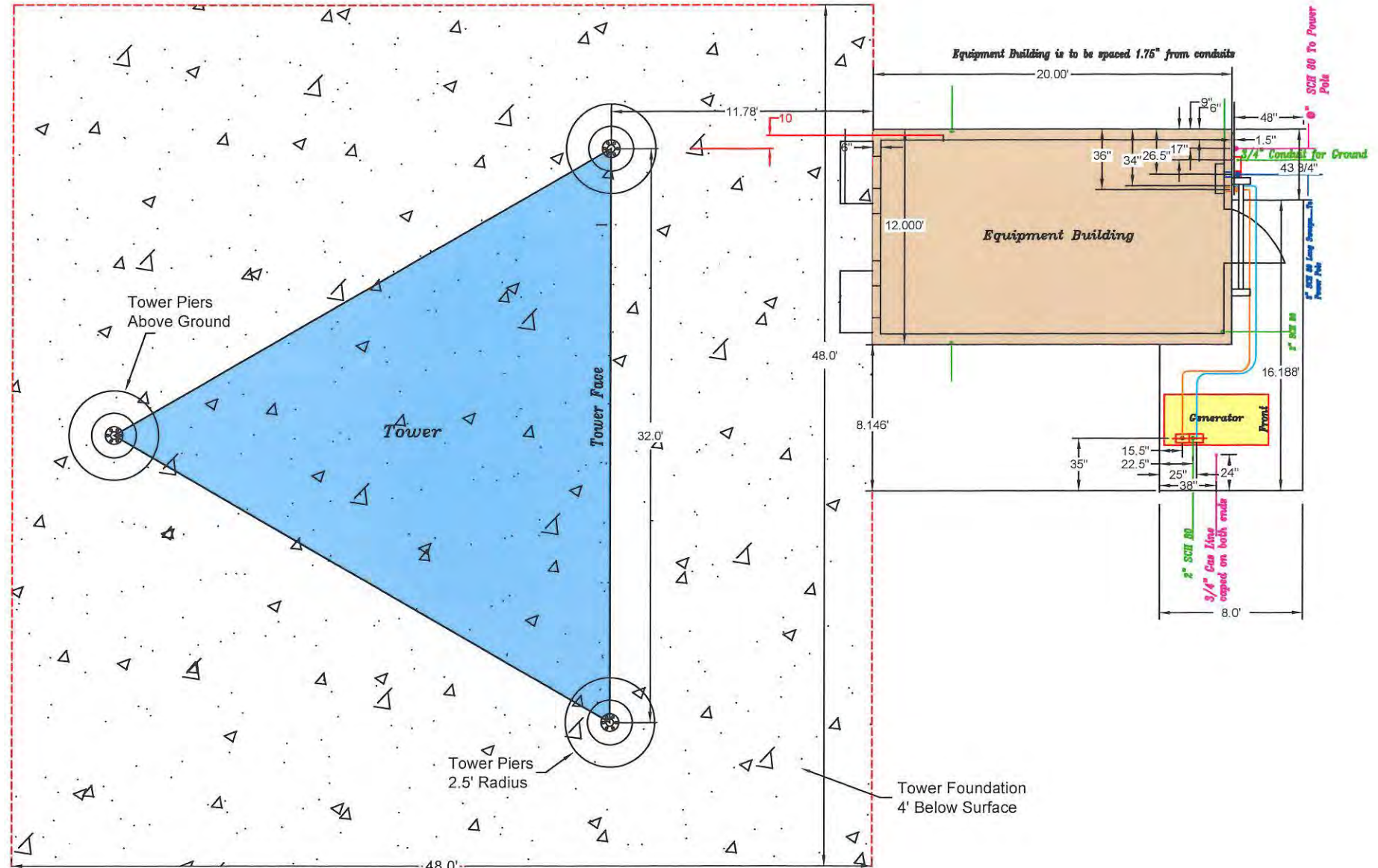
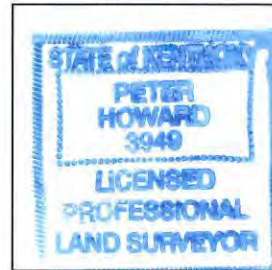
Proposed Tower Location:
-NAD 83 KY South Zone
N: 1,975,583.21
E: 2,552,961.11
EL: 2,324 +/-

FAA Certification

In Accordance with FAA Order 8260.19G, Appendix C, I hereby certify that the Obstacle Accuracy Codes for the proposed Tower meets or exceeds accuracy 2C (+50 ft Horizontal and +20 ft Vertical).

[Signature]
Peter Howard, PLS #3949 Date 9/9/2020

Peter Howard, PLS #3949
265 Hambley Blvd.
Pikeville, KY 41501
606-432-1447



FAA Certification

Note: Tower Foundation & distance between Tower Legs may change due to design criteria, by others.
Note: This is a Site Plan of the tower indicating the proposed Tower & Tower Component location. No design criteria was considered in the preparation of this drawing.

[Signature] 9/9/2020
David Rasnick PE# 12713 DATE

David Rasnick #12713
265 Hambley Blvd.
Pikeville, KY 41501
606-432-1447



SCALE: 1" = 8'

EAST KENTUCKY NETWORK D/B/A APPALACHIAN WIRELESS 101 TECHNOLOGY TRAIL, IVEL, KY 41643			SUMMIT ENGINEERING, INC. 265 HAMBLEY BLVD. PIKEVILLE, KY. 41501 (606) 432-1447	
Whitehouse Tower Site Map Located near the head of Joe's Branch of Elkhorn Creek Letcher County, Kentucky				
Scale: As Noted	Drawn By: PH	Chk By: PH	Apprvd. By:	PER. NO:
				ATT:

Exhibit 10

The tract of land shown herein is located on the ridge between the
 Fork of... and ...
 The proposed tower shown herein is located on a portion of Parcel 27
 and Parcel 28 of the ...
 The tower shown herein is based on information provided by the
 ...
 The tower shown herein is based on information provided by the
 ...
 The tower shown herein is based on information provided by the
 ...

The Elkhorn Coal
 Co. Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Information Not
 Available

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
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 Hazard, KY 40524
 PIA #002-00-00-000.00

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 Mine
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 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

PIA Elkhorn Coal Co.
 Mine
 420 1/2 South Main Street
 Hazard, KY 40524
 PIA #002-00-00-000.00

811
 Know what's below.
 Call before you dig.

- 1 Carol Sue Carter
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 2 Leonard and Judy Leavy
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 3 Tracy R. Baker
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 4 Paul and Patricia Baker
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 5 James W. Adington
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 6 Richard and Barbara Henry
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 7 T. E. Cook
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 8 James Lee Jenkins
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 9 Christopher Biskamp
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 10 The Elkhorn Coal Co.
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 11 The Elkhorn Coal Co.
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 12 The Elkhorn Coal Co.
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 13 Thomas Barnes
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 14 Church of God of East Jackson
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 15 D. L. Cook
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 16 James Lee Jenkins
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 17 The Elkhorn Coal Co.
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 18 Information Not Available
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00
- 19 Dennis Lee Campbell
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 20 Wanda Beverly Cant
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 21 Tracy R. Baker
1556 Leavy St
Hazard, KY 40524
PIA #002-00-00-000.00
- 22 The Elkhorn Coal Co.
420 1/2 S Main St
Hazard, KY 40524
PIA #002-00-00-000.00

East Kentucky Network
 101 Technology Trail, Mt. Vernon, KY 40375

BUHMY ENGINEERING, INC.
 4000 Highway 100, Hazard, KY 40524

Property Owner Map
 Whitehouse Tower Site
 Near Joe's Branch, Letcher County, KY

SCALE: 1" = 200'
 DATE: 08/20/2009
 SHEET: 1 OF 1

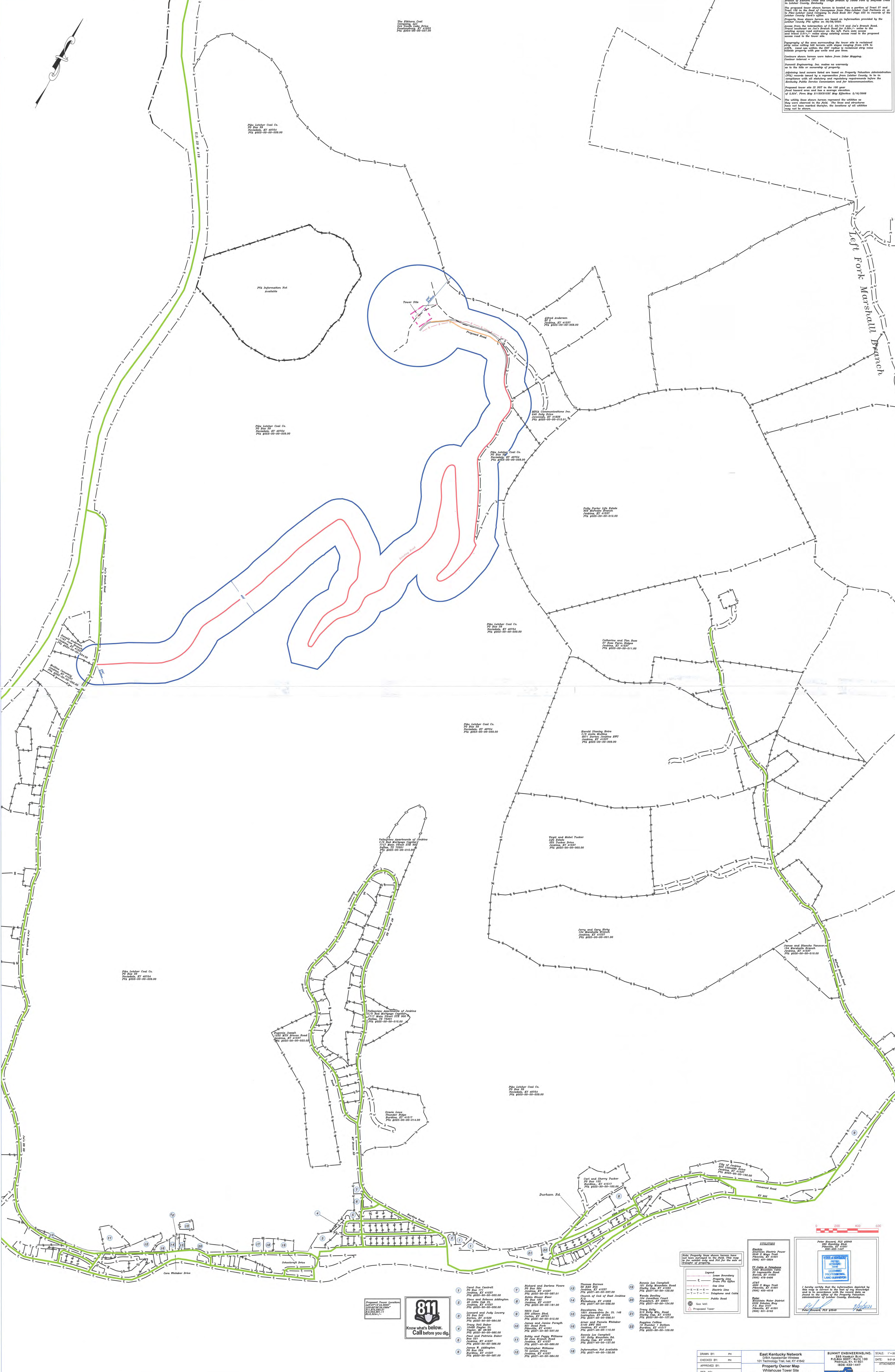
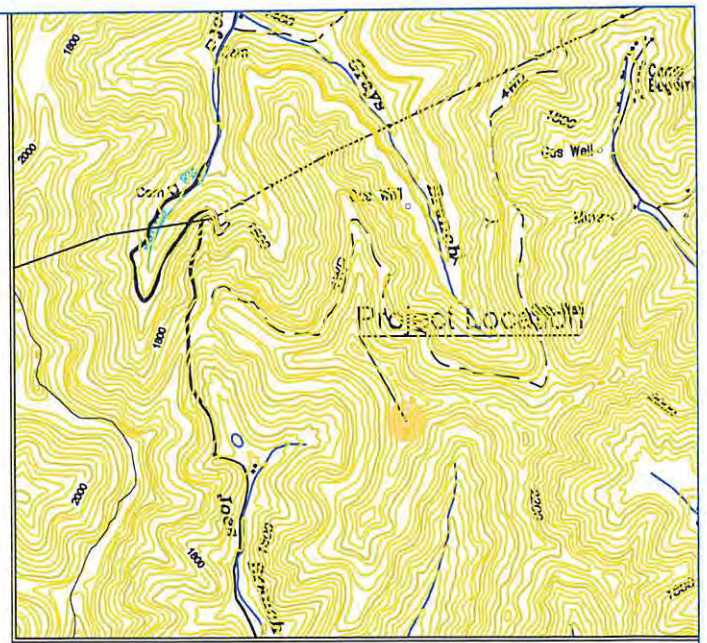


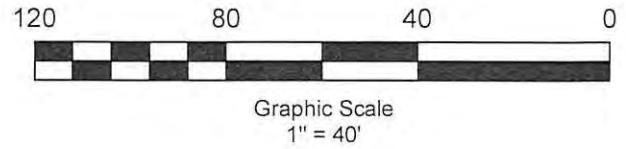
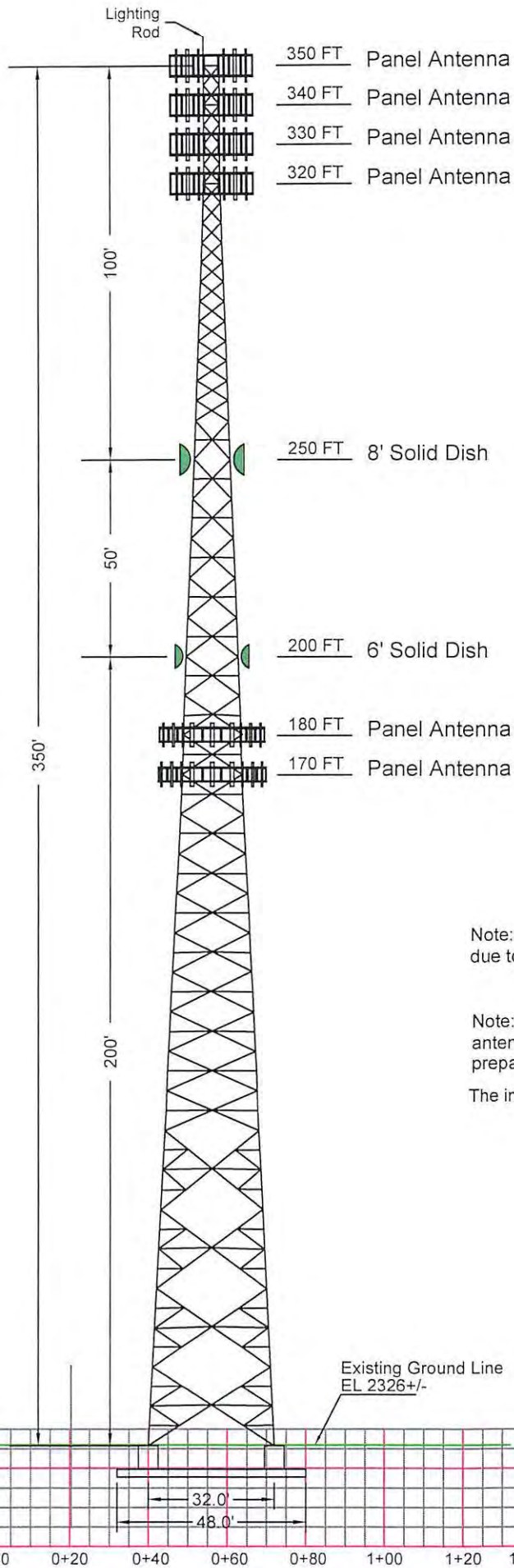
Exhibit 11

Whitehouse TOWER

VERTICAL PROFILE SKETCH
APPALACHIAN WIRELESS



Vicinity Map
Not to Scale
Jenkins East 7 1/2 Minute Quadrangle Map

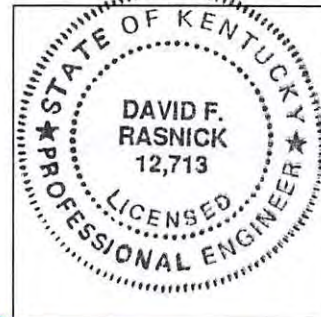


Note: Tower Foundation & distance between Tower Legs may change due to design criteria, by others.

Note: This is a vertical sketch of the tower indicating the proposed antenna and dish elevations. No design criteria was considered in the preparations of this drawing.

The information shown hereon is correct to the best of my knowledge

David Rasnick, PE #12713
265 Hambley Blvd.
Pikeville, KY 41501
606-432-1447



David Rasnick 9/19/2020
David Rasnick PE #12713 Date

DATE: 9/09/2020

SCALE: 1"=40'

DRAWN BY: PH

East Kentucky Network
D/B/A/ Appalachian Wireless
101 Technology Trail, Ivel, KY 41642

Vertical Profile Sketch
White House Tower
Letcher County, Kentucky

SUMMIT ENGINEERING, INC.
265 HAMBLEY BLVD.
PIKEVILLE, KY. 41501
(606) 432-1447



Exhibit 12

Utility ID	Utility Name	Utility Type	Class	City	State
4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
4109300	Access Point, Inc.	Cellular	D	Cary	NC
4108300	Air Voice Wireless, LLC	Cellular	A	Bloomfield Hill	MI
4110650	Alliant Technologies of KY, L.L.C.	Cellular	C	Morristown	NJ
44451184	Alltel Communications, LLC	Cellular	A	Basking Ridge	NJ
4110850	AltaWorx, LLC	Cellular	C	Fairhope	AL
4107800	American Broadband and Telecommunications Company	Cellular	C	Toledo	OH
4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
4110700	Andrew David Balholm dba Norcell	Cellular	C	Clayton	WA
4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
4108750	Blue Jay Wireless, LLC	Cellular	C	Carrollton	TX
4111050	BlueBird Communications, LLC	Cellular	C	New York	NY
4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
4107600	Boomerang Wireless, LLC	Cellular	B	Hiawatha	IA
4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
4110050	CampusSims, Inc.	Cellular	D	Boston	MA
4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
4111000	ComApp Technologies LLC	Cellular	C	Melrose	MA
4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
4001900	CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
4109600	Google North America Inc.	Cellular	A	Mountain View	CA
33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4110600	Horizon River Technologies, LLC	Cellular	C	Atlanta	GA
4103100	i-Wireless, LLC	Cellular	A	Newport	KY
4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	OK
22215360	KDDI America, Inc.	Cellular	D	New York	NY
10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
4110900	Lunar Labs, Inc.	Cellular	C	Detroit	MI
4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS

4001800	OnStar, LLC	Cellular	A	Detroit	MI
4110750	Onvoy Spectrum, LLC	Cellular	C	Plymouth	MN
4109050	Patriot Mobile LLC	Cellular	D	Southlake	TX
4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
4202100	Powertel/Memphis, Inc. dba T-Mobile	Cellular	A	Bellevue	WA
4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
4108700	Ready Wireless, LLC	Cellular	B	Hiawatha	IA
4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
4111100	ROK Mobile, Inc.	Cellular	C	Culver City	CA
4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
4106300	SI Wireless, LLC	Cellular	A	Carbondale	IL
4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
4108900	Telrite Corporation dba Life Wireless	Cellular	D	Covington	GA
4108450	Tempo Telecom, LLC	Cellular	D	Kansas City	MO
4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
4109000	Ting, Inc.	Cellular	A	Toronto	ON
4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
4002000	Truphone, Inc.	Cellular	D	Durham	NC
4110300	UVNV, Inc.	Cellular	D	Costa Mesa	CA
4105700	Virgin Mobile USA, L.P.	Cellular	A	Atlanta	GA
4110800	Visible Service LLC	Cellular	C	Lone Tree	CO
4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
4110950	Wing Tel Inc.	Cellular	C	New York	NY
4109900	Wireless Telecom Cooperative, Inc. dba theWirelessFreeway	Cellular	D	Louisville	KY

Exhibit 13

S & S Tower Services
120 Branden Dr.
Mousie, KY 41839

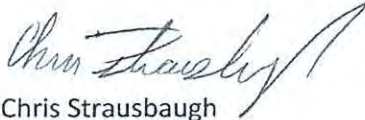
Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

Dear Commissioners:

The Construction Manager for the proposed communications facility will be Dave Strausbaugh. His contact information is (606) 497-6730 or dstrausbaugh010@gmail.com.

Dave has been in the industry completing civil construction and constructing towers since 1991. He has worked for S&S Tower Services since 2015 as Construction Manager overseeing the construction of telecommunications towers and sites.

Thank you,



Chris Strausbaugh
Owner
S&S Tower Services
(606) 497-5798