

Paul B. Whitty
Direct (502) 587-3655 Fax (502) 540-2260 E-mail pbw@gdm.com

AFC FULL

JAN 22 2009

PUBLIC SERVICE COMMISSION

January 22, 2009

Kentucky Public Service Commission Attn: Renee Smith Director, Division of Filings 211 Sower Blvd. P.O. Box 615 Frankfort, KY 40602-0615

RE: Application to Construct Wireless Communications Facility

Location: 2020 Highway 601, Greenville, KY 42345

Applicant: Powertel/Memphis Inc. d/b/a T-Mobile Kentucky

Site Name: Jarvis Case No.: 2009-00021

Dear Ms. Smith:

On behalf of our client, Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky, we are herewith submitting an original and five (5) copies of an Application for Certificate of Public Convenience and Necessity for Construction of a Wireless Communications Facility in an area of Muhlenberg County, Kentucky outside the jurisdiction of a planning commission. Also enclosed are two (2) additional copies of this cover letter.

We are submitting this Application with copies of corporate documents for the Applicant which were certified in 1995 and 1996, as provided by Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky and which you will find under Tab A. Per our discussions with Tiffany Bowman, Esq., we have ordered additional corporate information, together with current certifications on all of the corporate documents, from the Delaware Secretary of State's Office. We expect to have those shortly and will forward those to you immediately upon receipt so that they may be substituted under Tab A, replacing the older copies filed herewith.

GREENEBAUM DOLL & McDonald PLLC

Attn: Renee Smith, Director, Division of Filings

January 22, 2009

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Please do not hesitate to contact me if you have any questions or comments concerning this filing, or if you need any additional material.

Sincerely,

Paul B. Whitty

Attorney for T-Mobile

Jacksmilly

PBW/tae

Enclosures

3224899_1.doc

UNIFORM APPLICATION AND COMPLIANCE DOCUMENTS

JAN 22 2009

PUBLIC SERVICE COMMISSION

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky 2020 Highway 601 Greenville, Muhlenberg County, Kentucky 42345 9LV0711A - "Jarvis" 250' Self Support Tower Case No. 2009-00021

INDEX

- 1. Application for Certificate of Public Convenience and Necessity for Construction of a Wireless Communications Facility, with the following Exhibits:
 - A. Articles of Incorporation for Powertel/Memphis, Inc.
 - B. Documentation of FCC License for Powertel/Memphis, Inc.
 - C. Site Plans, Survey & Flood Hazard Map
 - D. Tower Design & Foundation Design Drawings
 - E. Maps of Proposed Tower and Existing Towers
 - F. Character of the Area and Co-Location Report
 - G. FAA Application
 - H. KAZC Application
 - Geotechnical Engineering Report dated November 14, 2008
 - Directions to Site
 - K. Site Lease
 - L. Identity & Qualifications of Designers & Construction Personnel
 - M. Adjoining Property Owner List with Notice Letters
 - N. Government Official Notice Letter
 - O. Notices to Be Posted On and Near Site
 - P. Notice to Be Advertised in Newspaper
 - Q. Search Ring Map

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF)	
POWERTEL/MEMPHIS, INC., D/B/A T-MOBILE)	
KENTUCKY FOR ISSUANCE OF A CERTIFICATE)	
OF PUBLIC CONVENIENCE AND NECESSITY TO)	
CONSTRUCT A WIRELESS COMMUNICATION)	DOCKET NO.
FACILITY AT 2020 HIGHWAY 601,)	2009-00021
GREENVILLE, KENTUCKY 42345 IN THE)	
WIRELESS COMMUNICATIONS LICENSE AREA)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY THE MUHLENBERG)	

SITE NAME: JARVIS

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

Powertel/Memphis, Inc., a Delaware corporation, d/b/a T-Mobile Kentucky ("Applicant"), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665 and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Applicant with wireless telecommunications service.

In support of this Application, Applicant respectfully provides and states the following information:

1. The complete name and address of the Applicant:

Powertel/Memphis, Inc., d/b/a T-Mobile Kentucky Four Concourse Parkway, Suite 300 Atlanta, Georgia 30328

- 2. Applicant proposes construction of an antenna tower for cellular telecommunications services or personal communications services which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this Application to the Commission for a Certificate of Public Convenience and Necessity pursuant to KRS §§278.020 (1), 278.650, and 278.655.
- 3. The Applicant is authorized to conduct business in the Commonwealth of Kentucky. A copy of the Articles of Incorporation for Powertel/Memphis, Inc. is attached hereto as **Exhibit A**.
- 4. The Applicant is licensed to provide wireless telecommunications service in the Commonwealth of Kentucky. The proposed WCF will serve an area completely within the Applicant's Federal Communications Commission ("FCC") licensed service area. A copy of documentation evidencing the Applicant's FCC license is attached hereto as **Exhibit B**.
- 5. Public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing public access to innovative and competitive wireless telecommunications services. The WCF will provide a necessary link in the Applicant's telecommunications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications licensed area. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.
- 6. To address the above-described service needs, Applicant proposes to construct a WCF at 2020 Highway 601, Greenville, Kentucky 42345 (37°13'43.31" North latitude,

87°12'44.75" West longitude), in an area located entirely within the county referenced in the caption of this Application. The property on which the WCF will be located is owned by William C. Hill pursuant to a Deed recorded at Deed Book 469, Page 721 in the office of the Muhlenberg County Clerk. The proposed WCF will consist of a 250-foot tall tower, with a 5foot tall lightning arrestor attached at the top, for a total height of 255 feet. The WCF will also include concrete foundations to accommodate the placement of the Applicant's proprietary radio electronics equipment. The equipment will be housed in a prefabricated cabinet or shelter that will contain: (i) the transmitting and receiving equipment required to connect the WCF with the Applicant's users in Kentucky, (ii) telephone lines that will link the WCF with the Applicant's other facilities, (iii) battery back-up that will allow the Applicant to operate even after a loss of outside power, and (iv) all other necessary appurtenances. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the appropriate building inspector having jurisdiction of the site. The WCF compound will be fenced and all access gate(s) will be secured. Further descriptions of the site layout and construction details of the WCF are shown on the site plans and a survey (which includes a 500' vicinity map and Flood Plain Certification) attached hereto as Exhibit C; and Tower Design Drawings and Foundation Design Drawings attached hereto as **Exhibit D**. Periodic inspections will be performed on the WCF in accordance with the applicable regulations or requirements of the PSC.

- 7. A map showing the proposed WCF and all towers within a 1 mile radius, and a map of all towers in the Muhlenberg County area are attached hereto as **Exhibit E**.
- 8. The site development plans, a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant and future antenna mounts, foundation

design plans, and a description of the standards according to which the tower was designed, and which likewise have been signed and sealed by professional engineers licensed in Kentucky, are also included in **Exhibits C and D** attached hereto.

- 9. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. Applicant has attempted to co-locate on suitable existing structures such as telecommunications towers or other suitable structures capable of supporting Applicant's facilities, and no other suitable or available co-location site was found to be located in the vicinity of the site. Information regarding the Applicant's efforts to achieve co-location in the vicinity is presented as **Exhibit F** attached hereto.
- 10. A copy of the Notice of Proposed Construction or Alteration-Off Airport filed with the Federal Aviation Administration ("FAA") on October 31, 2008 is attached hereto as **Exhibit G.**
- 11. A copy of the Kentucky Airport Zoning Commission ("KAZC") Application for Permit to Construct or Alter a Structure is attached hereto as **Exhibit H.**
- 12. The WCF will be registered with the FCC pursuant to applicable federal requirements. Appropriate required FCC signage will be posted on the site upon receipt of the tower registration number.

- 13. A geotechnical engineering firm, Asher Inc., has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report and evaluation, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached hereto as **Exhibit I**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.
- 14. Clear directions to the proposed WCF site from the County seat are attached hereto as **Exhibit J**. The name and telephone number of the preparer of **Exhibit J** is included as part of this exhibit.
- 15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached hereto as **Exhibit K.** Also included as part of **Exhibit K** is the portion of the full agreement demonstrating that in the case of abandonment a method is provided to dismantle and remove the cellular antenna tower, including a timetable for removal.
- 16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced and are listed in **Exhibit L** attached hereto. All tower designs meet or exceed applicable laws and regulations. Timothy L. Hardy, a professional engineer registered in Kentucky, with Hardy Engineering Inc., prepared the site plans and construction drawings. Ta-Wen Lee, a professional engineer licensed in Kentucky, prepared the tower design standards. Buford H. Evans, Jr., a professional engineer licensed in Kentucky, prepared the foundation drawings.

- 17. The Construction Management Company for the proposed facility is Mittrix Engineering, and the Project Manager will be Jeremy Potts.
- 18. Flood Zone data is included and certified by a licensed professional surveyor for the Commonwealth of Kentucky on Page C2 of the Site Survey which is included in **Exhibit C** attached hereto.
- 19. The possibility of high winds has been considered in the design of this tower. The tower has been designed and engineered by professional engineers using computer assistance and the same accepted codes and standards as are typically used for high-rise building construction.
- 20. The site development plan signed and sealed by a professional engineer registered in Kentucky was prepared by Timothy L. Hardy. The site survey was performed by Frank L. Sellinger, II, a licensed professional surveyor for the Commonwealth of Kentucky, and Page C-1 of the Survey included in **Exhibit C** is drawn to a scale of no less than one inch equals 200 feet, and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the Muhlenberg County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system is illustrated in the Survey included in **Exhibit C**.
- 21. Applicant has notified every person who, according to the records of the Muhlenberg County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. All notified property owners have been given the docket number under which the proposed Application will be processed and have been informed of their

right to request intervention. A list of the nearby property owners who received the notices, together with copies of the certified letters, are attached hereto as **Exhibit M**.

- 22. Applicant has notified the Muhlenberg County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the Application will be processed and informed the Muhlenberg County Judge/Executive of his/her right to request intervention. A copy of this notice is attached hereto as **Exhibit N.**
- 23. Two notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2), that measure at least two (2) feet in height and four (4) feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two (2) weeks after filing of the Application, and a copy of the posted text is attached hereto as **Exhibit O**.
- 24. Notice of the location of the proposed facility has also been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the wording for the newspaper ad is attached hereto as **Exhibit P**.
- 25. The general area where the proposed facility is to be located is rural farmland. There are two barns but no residential structures located within a 500-foot radius of the proposed tower location. There is a residence located within 200 feet of the access drive at Highway 601, approximately 1,200 feet from the cell tower site (See Site Survey, Page C-1, included at **Exhibit C**).

- 26. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicants radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to serve the Federal Communications Commission licensed service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Applicant. Before beginning the site acquisition process, Applicant carefully evaluated locations within the search area for colocation opportunities on existing structures, and no suitable towers or other existing tall structures were found in the immediate area that would meet the technical requirements for the element of the telecommunications network to be provided by the proposed facility. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached hereto as Exhibit Q.
- 27. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

Paul B. Whitty Greenebaum Doll & McDonald, PLLC 3500 National City Tower 101 South Fifth Street Louisville, Kentucky 40202 Telephone: (502) 587-3655

pbw@gdm.com

Facsimile: (502) 540-2260

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

Respectfully submitted,

Paul B. Whitty

Greenebaum Doll & McDonald, PLLC

3500 National City Tower 101 South Fifth Street

Louisville, Kentucky 40202

Telephone: (502) 587-3655 Facsimile: (502) 540-2260

Attorney for Powertel/Memphis, Inc.

d/b/a T-Mobile Kentucky

P16

Powertel/Kentucky, Inc. merges into Powertel/Memphis, Inc.

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"POWERTEL/KENTUCKY, INC.", A DELAWARE CORPORATION.

WITH AND INTO "POWERTEL/MEMPHIS, INC." UNDER THE NAME OF "POWERTEL/MEMPHIS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIRST DAY OF DECEMBER, A.D. 2005, AT 11:30 O'CLOCK A.M.

AND T DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESATO CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY, A. D. 2006, AT 12:30 O'CLOCK A.M.

A FILED GOPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

2447268 8100M



Daniel Smith Hindan

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 4400474

DATE: 12-23-05

State of Delaware Secretary of State Division of Corporations Delivered 11:30 AM 12/21/2005 FILED II:30 AM 12/21/2005 SRV 051046113 - 2447268 FILE

STATE OF DELAWARE CERTIFICATE OF MERGER OF DOMESTIC CORPORATIONS

Certificate of Merger:
is Powertel/Memphis Inc.
, and the name of the corporation being stell/Kentucky, Inc.
approved, adopted, certified, executed reportings.
m is Powertel/Memphis inc.
a Delaware corporation.
of the surviving corporation shall be its
January 1, 2006 et 12:30 a.m.
aţ <u> </u>
the place of business
· · · · · · · · · · · · · · · · · · ·
lerger will be furnished by the surviving cholder of the constituent corporations. or poration has caused this certificate to be day of December AD.
S/David A. Miller
Authorized Officer
David A. William
Print or Type
anlor Vice President:

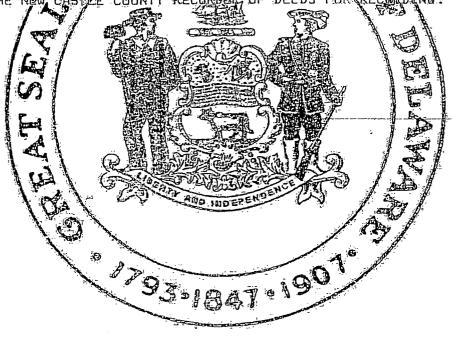
71

State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "INTERCEL MEMPHIS MTA, INC." TO "FOWERTEL AMENDMENTS" THE SEVENTEEN THE DAY OF JULY, A.D. 1996 AT STEED OF THE SEVENTEEN THE DAY OF JULY, A.D. 1996 AT STEEDOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS REEN FORWARDED TO



37.7 V 77.7

Edward J. Freel, Secretary of State

AUTHENTICATION:

8030247

67-17-98

2447268 8100

960207691

DATE

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

OF

INTERCEL MEMPHIS MTA, INC.

InterCel Memphis MTA, Inc. (the "Corporation"), a corporation organized and existing under the General Corporation Law of the State of Delaware, does hereby certify as follows:

EIRST: That in accordance with the requirements of Section 242 of the General Corporation Law of the State of Delaware, the Board of Directors of the Corporation, acting by written consent signed by all of the directors of the Corporation pursuant to Section 141(f) of the General Corporation Law of the State of Delaware, duly adopted resolutions: (1) proposing and declaring advisable the changing of the Corporation's name to "Rowertel/Memphis, Inc." (2) proposing and declaring advisable the amendment of the Certificate of Incorporation of the Corporation to reflect such change and (3) recommending that such name change and approval

SECOND: That the amendment to the Certificate of Incorporation of the Corporation is as follows:

ARTICLE FIRST of the Certificate of incorporation of the Corporation is hereby amended to read in its entirety as follows:

"FIRST: The name of the corporation is Powerte Memphis, Inc. 4the "Corporation")."

THIRD: That thereafter pursuant to resolution of the Board of Directors, the sole stockholder of the Corporation, acting by written consent in accordance with Sections 228 and 229 of the General Corporation law of the State of Delaware, duly approved such names change and the aforesaid amendment to the Certificate of Incorporation of the Corporation to reflect such names change.

FOURTH: That the aforesaid amendment to the Certificate of Incorporation of the Corporation was duly adopted in accordance with the provisions of Sections 144(f), 228, 229 and 242 of the General Corporation Law of the State of Delaware.

FIFTH: That upon this Certificate of Amendment of Certificate of Incorporation becoming effective, the name of the Corporation shall be changed to "Powertel/Memphis, Inc."

IN WITNESS WHEREOF, InterCel Memphis MTA, Inc. has caused this Certificate of Amendment of Certificate of Incorporation to be signed by Allen E. Smith, its President, and attested by Fred G. Astor, Ir., its Secretary, on July 1, 1996.

Allen E. Smith President

Attest:

•		

Federal Communications Commission Wireless Telecommunications Bureau

Radio Station Authorization (Reference Copy Only)

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

Licensee: Powertel Memphis Licenses, Inc.

ATTN Dan Menser Powertel Memphis Licenses, Inc. 12920 SE 38th Street Bellevue, WA 98006

FCC Registration Number (FRN): 0001832807		
Call Sign: KNLH397	File Number: 0002907447	
1	Service: Broadband	

Grant Date	Effective Date	Expiration Date	Print Date
04/25/2007	04/25/2007	04/28/2017	11/21/2007

Market Number: BTA263	Channel Block: E	Sub-Market Designator: 3
Market Name: Louisville, KY	*	

ļ	1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
	04/28/2002			-

Special Conditions or Waivers/Conditions

Conditions

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

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at http://wireless.fcc.gov/uls/ and select "License Search". Follow the instruction on how to search for license information

FCC 601 - MB September 2002

GENERAL NOTES:

- 1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE COUNTY OF MUHLENBERG REGULATIONS
- 2. CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION TO VERIFY LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- 3. ALL UTILITIES WITHIN ROADWAY SHALL BE BACKFILLED WITH STONE.
- 4. CONTRACTOR SHALL REPAIR AT HIS EXPENSE DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURBS, ETC.. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL UNUSABLE MATERIALS FROM THE SITE
- 6. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY PROVIDING TEMPORARY SERVICE FOR CONSTRUCTION FACILITIES DURING CONSTRUCTION.
- 7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED ABOUT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES SHOWN ON THIS DRAWING. THEY ARE BASED UPON RECORDS FROM VARIOUS UTILITY COMPANIES, DEEDS, AND PLATS OF RECORD, AND WHERE POSSIBLE ACTUAL FIELD MEASUREMENTS. THIS INFORMATION IS NOT TO BE TAKEN EXACT OR COMPLETE.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED IMPROVEMENTS.
- 9. THIS PROJECT WILL NOT REQUIRE WATER OR SEWER SERVICE.
- 10. CONTRACTOR SHALL REMOVE ANY DIRT OR MUD FROM TIRES OF ANY CONSTRUCTION VEHICLES PRIOR TO LEAVING SITE.
- 11. REFER TO BUILDING/TOWER PLANS FOR PROPOSED DIMENSIONS AND OTHER SPECIFICS WHICH ARE NOT SHOWN.
- 12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A PROPER TRAFFIC CONTROL PLAN FOR PUBLIC SAFETY ADJACENT TO CONSTRUCTION SITE. THE TRAFFIC CONTROL PLAN MUST BE IN ACCORDANCE WITH LATEST MUTCD EDITION
- 13. CONTACT LOCAL GOVERNING JURISDICTION FOR TYPE AND SIZE OF GENERATOR FUEL LINE PRIOR TO INSTALLATION

ELECTRIC CO.:

KENTUCKY UTILITIES 220 WEST MAIN STREET PO BOX 32010 LOUISVILLE, KY 40232 PHONE: (800) 981-0600 (800) 331-7370

TELEPHONE CO.:

MUHLENBERG COUNTY

AT & T

CONTACT: CUSTOMER SERVICE

SITE DEVELOPMENT PLANS FOR POWERTEL / MEMPHIS, INC.

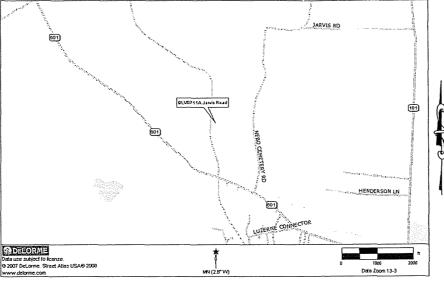
SITE #: 9LV0711A SITE NAMË: JARVIS ROAD

SITE ADDRESS: -900 MALONE FARM LANE

DELTON, KENTUCKY 42324

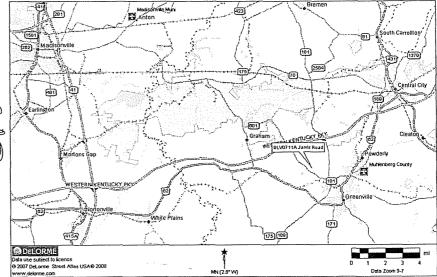
2020 Highway 601 Greenville, Kentucky

SIGNATURE AUTHORIZATIONS: RF ENGINEER APPROVAL: SIGNATURE CONSTRUCTION MANAGER APPROVAL: SITE ACQUISITION AGENT APPROVAL: SIGNATURE DATE: LAND OWNER APPROVAL: SIGNATURE DATE OPS APPROVAL SIGNATURE DATE: ZONING/PERMITTING APPROVAL: DATE:



DIRECTIONS:

FROM LOUISVILLE: TAKE 1-24 RAMP TO MURFREEBORO APPROX. 2 MILES. TAKE 1-24W APPROX. 67.4 MILES. TAKE EXIT 86 FOR HWY 41/PENNYRILE PKWY TOWARDS HOPKINSVILLE APPROX. 6 MILES. TURN RIGHT AT FORT CAMBELL BLVD/US-41 APPROX. 8.6 MILES. CONTINUE TO FOLLOW FORT CAMBELL BLVD.; TAKE US-41 RAMP TO HENDERSON APPROX. 5 MILES. MERGE ONTO PENNYRILE PKWY N APPROX. 26.9 MILES. TAKE EXIT 33 FOR US-62 TOWARD NORTONVILLE/GREENVILLE APPROX. 2 MILES. TURN RIGHT AT NORTONVILLERD/US-62; CONTINUE TO FOLLOW US-62 APPROX. 13.8 MILES. TURN LEFT AT SR181/SR601 APPROX. 2 MILES. FOLLOW SR 181 SR601 TO PROPOSED SITE LOCATION. PROPOSED SITE IS ON THE NORTH SIDE OF SR 601 AND TO THE WEST OF NEBO CEMETERY RD.





"SURVEY" COORDINATES:

LATITUDF: 37° 13' 43.31" LONGITUDE: -87' 12' 44.75" GROUND ELEV: 517' AMSL

INDEX: REV.: DATE: TITLE SHEET SURVEY CO GRADING PLAN C1 OVERALL SITE LAYOUT C1.5 DETAILED SITE LAYOUT TOWER ELEVATION C3 ANTENNA & COAX GROUNDING DETAIL C3.1 COAX GROUNDING DETAIL C3.2 GROUNDING RISER DIAGRAM C4 EQUIPMENT ELEVATION C5 ELECTRICAL DETAILS C6 GROUNDING LAYOUT C7 ELECTRICAL CONDUIT LAYOUT C7.1 PANEL BOARD CALCULATIONS C8 CONCRETE FOUNDATION DETAILS C9 WIRING DIAGRAM C10 UTILITY TRENCH DETAILS C11 FENCE DETAILS C12 | SILT FENCE DETAILS AND NOTES

PERMIT JURISDICTION: LESSOR:

BILL HILL 900 MALONE FARM LANE BELTON, KY 42324 PHONE: (270) 543-5416

EMAIL: FÌREBURNS2001@YAHOO.COM

LESSEE:

fpowertel...

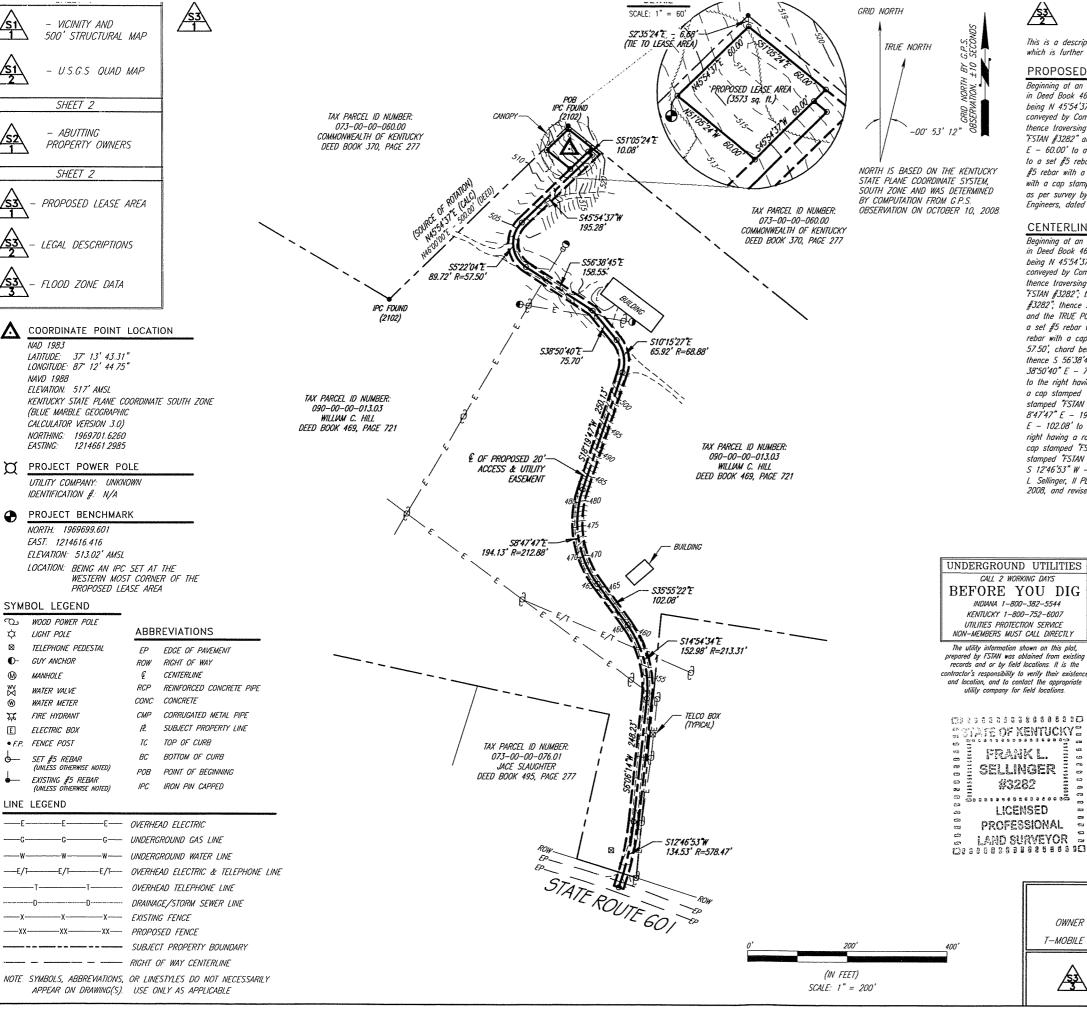
POWERTEL / MEMPHIS, INC. LOUISVILLE MARKET 11509 COMMONWEALTH DRIVE, SUITE 9 LOUISVILLE, KENTUCKY 40299 CONTACT: REAL ESTATE

ENGINEER:



HARDY ENGINEERING, INC.

209 LINDEN STREET TRUSSVILLE, ALABAMA 35173 CONTACT: TIM HARDY PHONE: (205) 655-1427 MOBILE: (205) 222-7563





LEGAL DESCRIPTIONS:

This is a description for T-Mobile, of an area to be leased from the property of William C Hill, which is further described as follows:

PROPOSED LEASE AREA

Beginning at an IPC "2102" found at the North corner of the property conveyed to William C. Hill, in Deed Book 469, Page 721, in the Office of the County Clerk of Muhlenburg County, Kentucky, being N 45'54'37" E - 500.00' from an IPC "2102" found at the South corner of the property conveyed by Commonwealth of Kentucky, in Deed Book 370, Page 277 in the said Clerks Office, thence traversing said Hill property S 2'35'24" E - 6.68' to a set #5 rebar with a cop stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Proposed Lease Area, thence S 51"05'24" E - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282", thence \$ 4554'37" W - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 51"05'24" W - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282", thence N 45.54'37" E - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282" and the true point of beginning containing 3,600 square feet as per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated October 21, 2008, and revised October 29, 2008.

CENTERLINE OF PROPOSED 20' ACCESS & UTILITY EASEMENT

Beginning at an IPC "2102" found at the North corner of the property conveyed to William C. Hill, in Deed Book 469, Page 721, in the Office of the County Clerk of Muhlenburg County, Kentucky, being N 45'54'37" E - 500.00' from an IPC "2102" found at the South corner of the property conveyed by Commonwealth of Kentucky, in Deed Book 370, Page 277 in the said Clerks Office, thence traversing said Hill property \$ 2'35'24" E - 6.68' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence 5 51'05'24" E - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 45'54'37" W - 10.00' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Proposed Lease Area, thence \$ 51'05'24" E - 10.08' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence \$ 45'54'37" W - 195.28' to a set #5 rebar with a cap stamped "FSTAN #3282", thence with a curve to the left having a radius of 57.50', chord being \$ 522'04" E - 89.72' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence \$ 56'38'45" E - 158.55' to a set #5 rebor with a cap stamped "FSTAN #3282"; thence \$ 38'50'40" E - 75.70' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence with a curve to the right having a radius of 68.88', chord being \$ 10"15'27" E - 65.92' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence \$ 18'19'47" W - 250.13' to a set #5 rebar with a cap stamped "FSTAN #3282", thence with a curve to the left having a radius of 212.88', chord being S 8'47'47" E - 194.13' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 35'55'22" E - 102.08' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence with a curve to the right having a radius of 213.31', chord being 5 14°54'34" E - 152.98' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 6'06'14" W - 248.23' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence with a curve to the right having a radius of 578.47', chord being S 12'46'53" W - 134.53' to a set P.K. Nail and the end of the easement as per survey by Frank L Sellinger, II PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated October 21, 2008, and revised October 29, 2008.

2020 High 100 row 42345

SURVEYORS NOTES

SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 10, 2008.

SOURCE OF ROTATION BASED ON THE NORTH PROPERTY LINE OF THE HILL PROPERTY HAVING THE BEARING OF N 46° 00' 00" F PER D.B. 469, PG. 721, AND THE CALCULATED BEARING OF

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. EXISTING CONTOURS ARE AT ONE FOOT INTERVALS

LAND SURVEYOR'S CERTIFICATE

Type "A" Survey - Unadjusted linear traverse closure: 1 in 23,513. TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.

This survey and plat meets or exceeds the minimum standards of the governing authorities.

This property is subject to any recorded easements or right of ways not shown hereon

REFERENCED AS "EXHIBIT C"

OWNER APPROVAL:	DATE:	***************************************
-MOBILE APPROVAL:	DATE	***************************************



I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAI NO. 2102930075B DATED 02:06:91 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

0 Mobile



SITE SURVEY"

91 V0711A

JARVIS ROAD

SITE ADDRESS.

-BELTON. KY 42324

PROPOSED LEASE AREA.

PROPERTY OWNER

WILLIAM C. HILL 107 NORTH MAIN GREENVILLE, KY 42345

090-00-00

PARCEL NUMBER:

01.3-00.3

SOURCE OF TITLE:

DEED BOOK 469, PAGE 721

CHKD BY

FSTAN PROJECT NO.

DATE

10.21.08

LEACE ADEA /COUR

08-5672

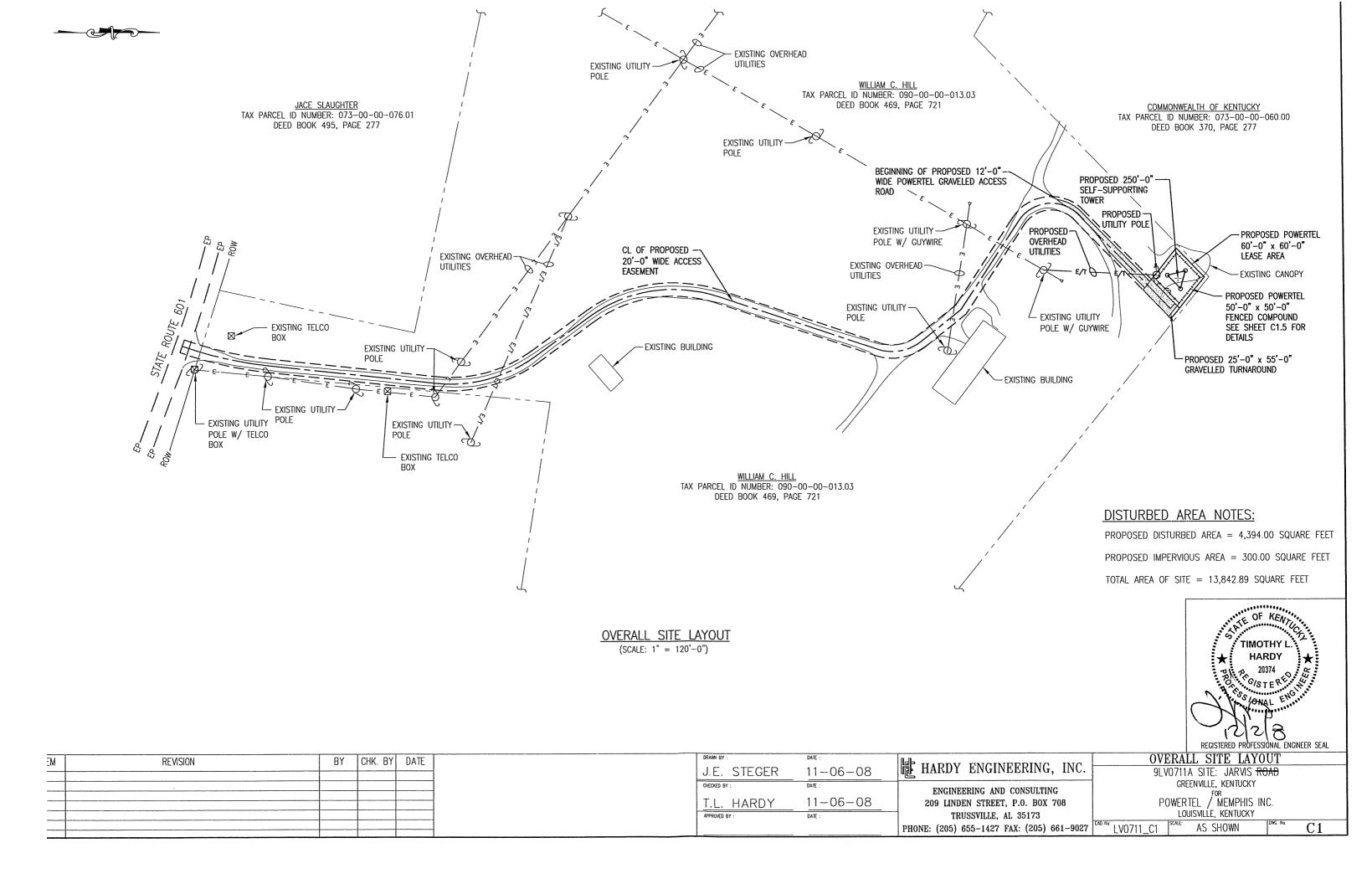
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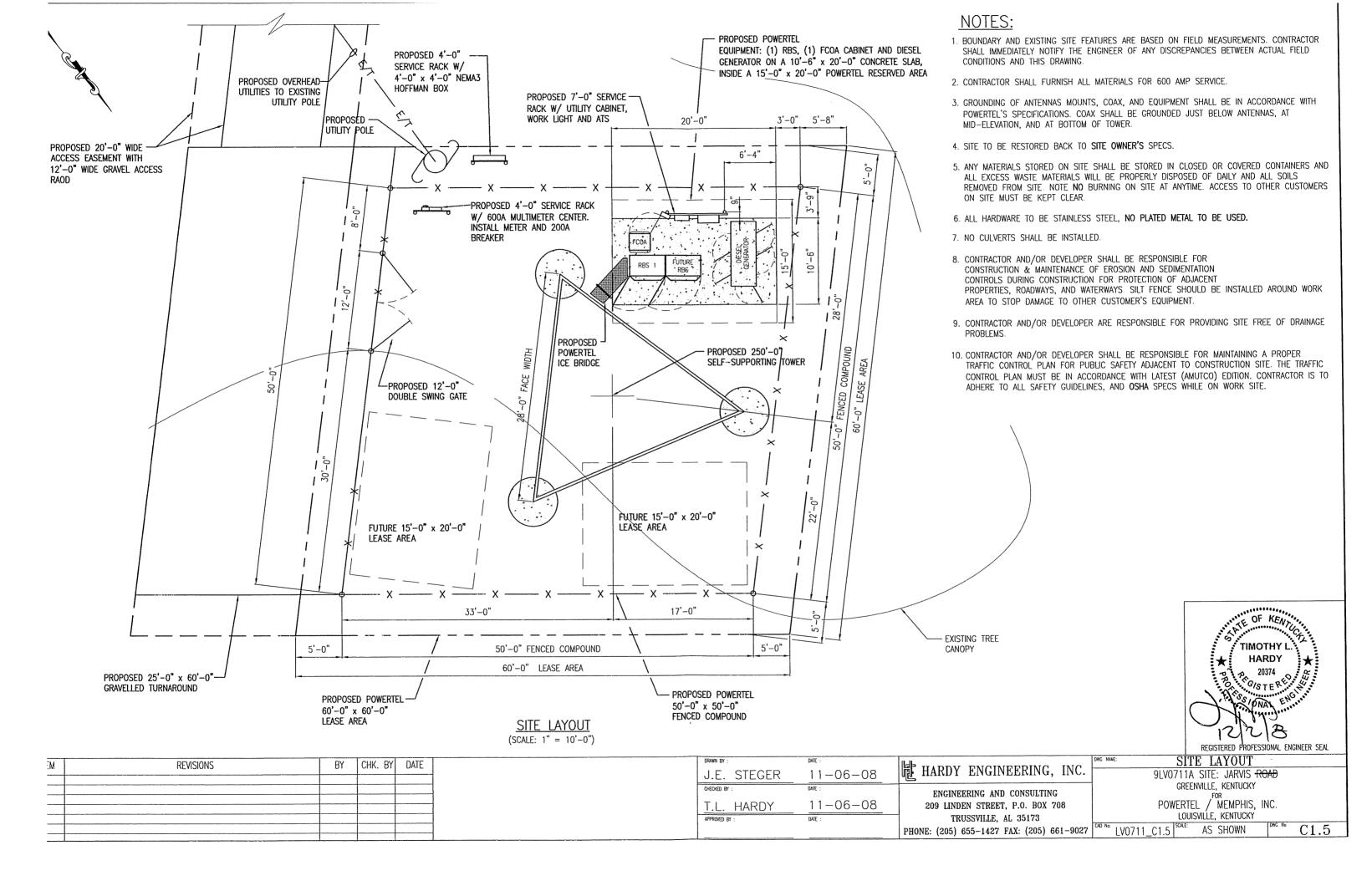
REVISIONS:

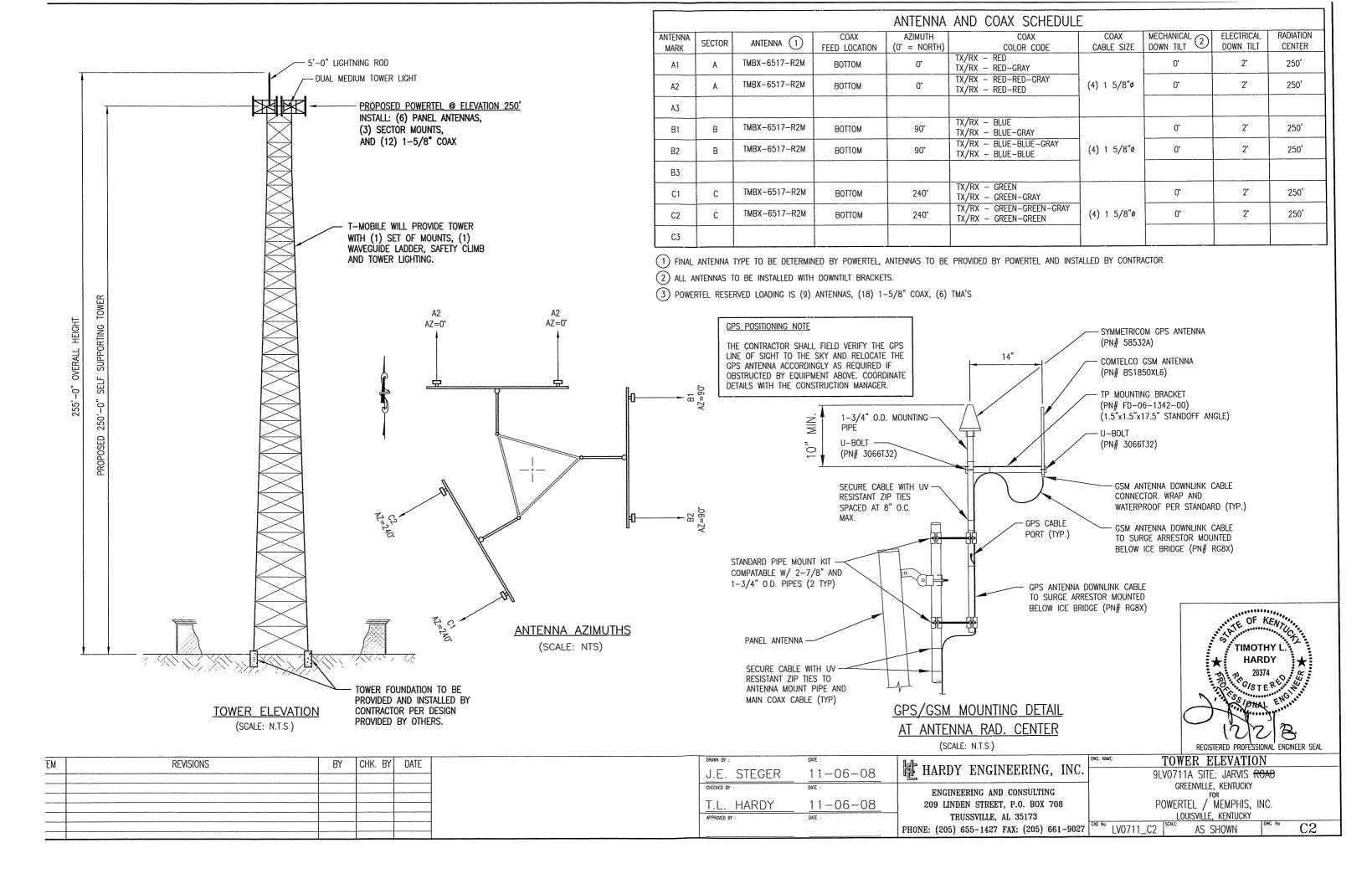
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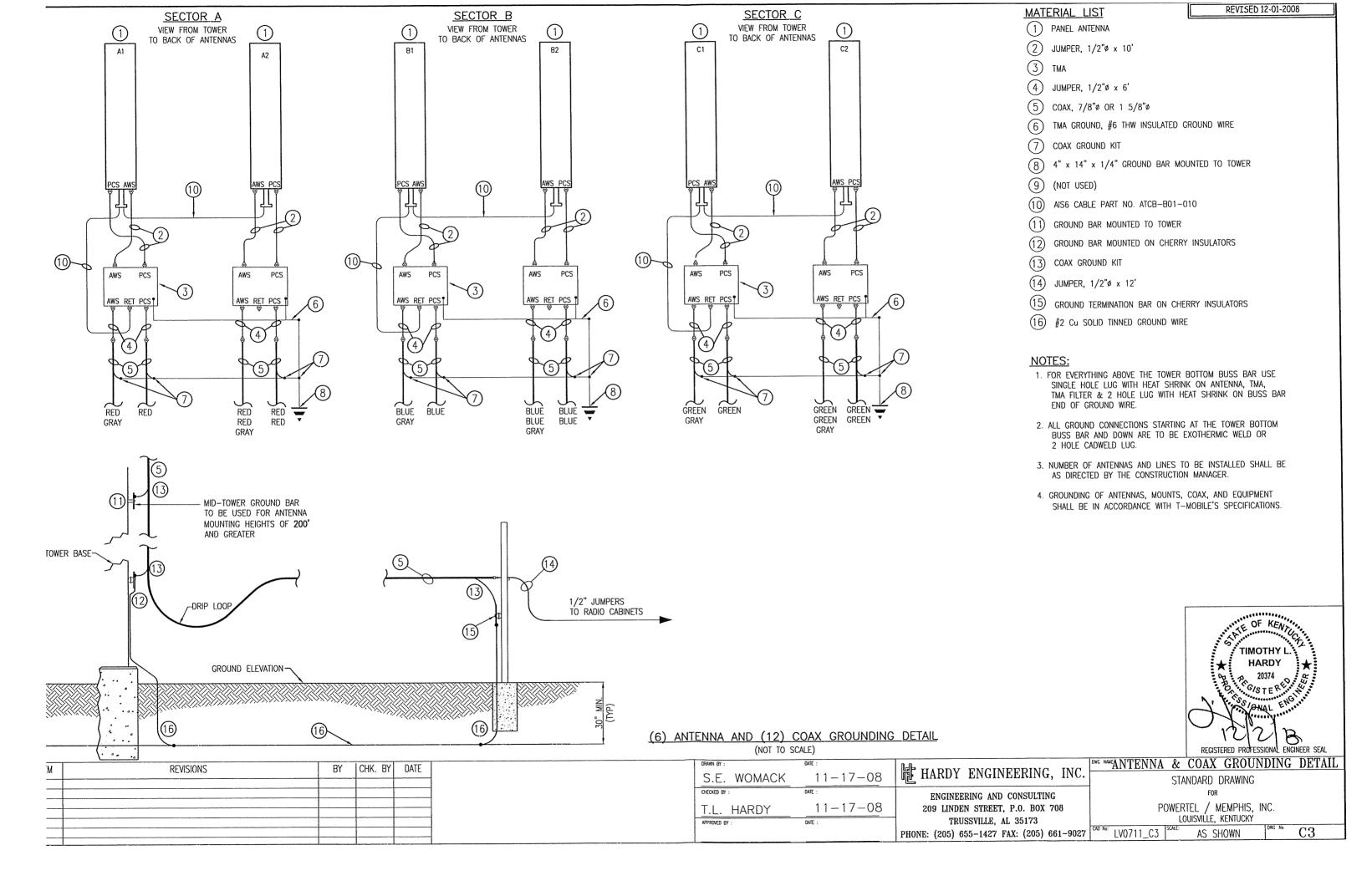
C2

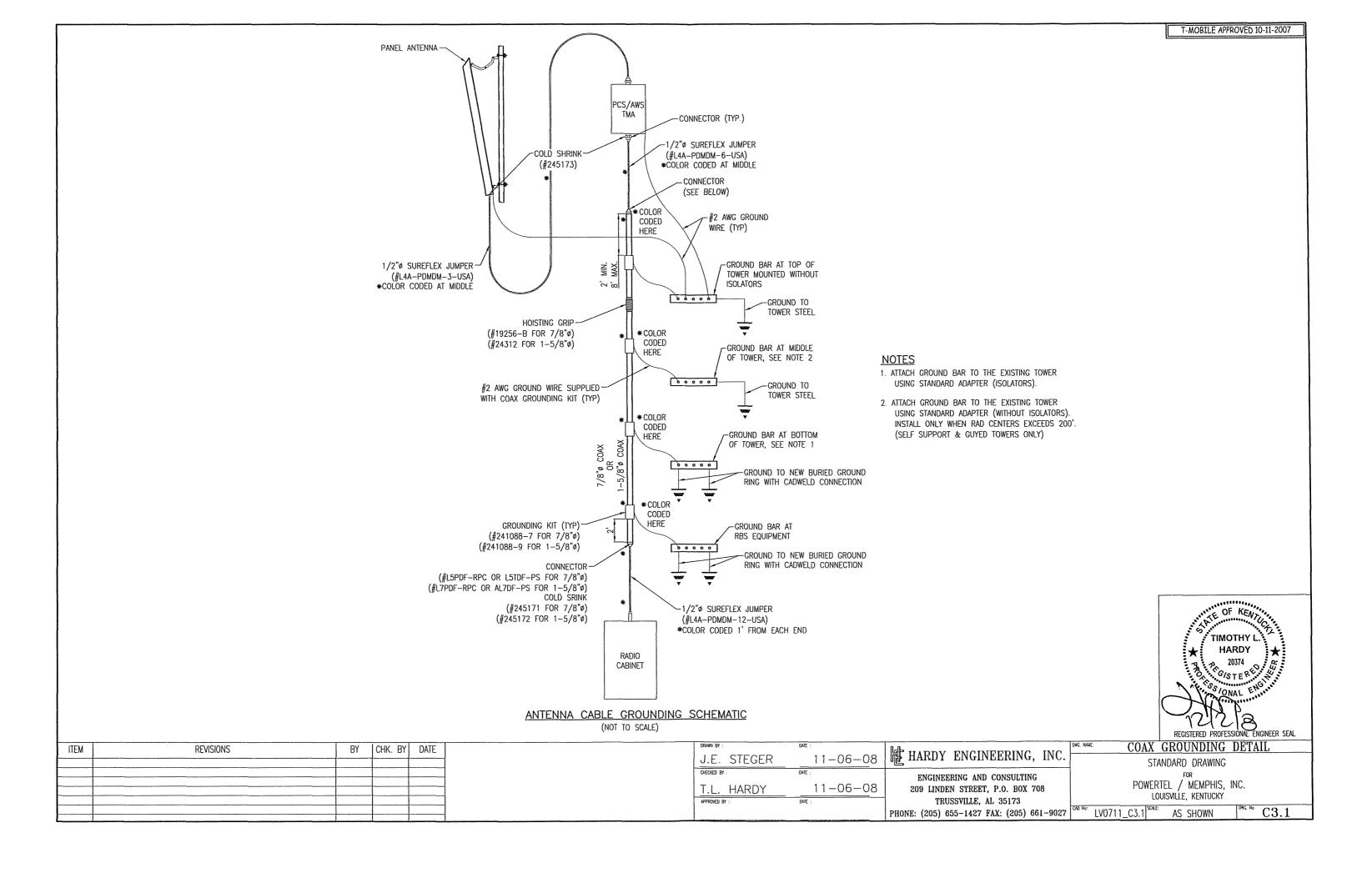
#### RADING NOTES: LEGEND ALL CONSTRUCTION TO BE IN ACCORDANCE WITH MUHLENBERG COUNTY REGULATIONS. DRAINAGE FLOW LINE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL TREES AND PROPOSED 60' x 60'-OBSTRUCTIONS INSIDE THE LEASE AREA AND ACCESS EASEMENT. POWERTEL LEASE AREA PROPOSED CONTOURS --- EXISTING CONTOURS CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ÉROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR × ---- CHAIN LINK FENCE PROTECTION OF ADJACENT PROPERTIES, ROADWAYS, AND WATERWAYS, USE SILT FENCE SILT FENCE PROPOSED 50'-0" x 50'-0"-CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR PROVIDING SITE FREE OF POWERTEL FENCED COMPOUND -- LEASE LINE DRAINAGE PROBLÉMS. (SEE SHEET C1.5 FOR DETAILS) CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING A PROPER TRAFFIC CONTROL PLAN FOR PUBLIC SAFETY ADJACENT TO CONSTRUCTION SITE. THE TRAFFIC PLAN MUST BE IN ACCORDANCE WITH THE LATEST (MUTCD) EDITION. CONTRACTOR SHALL GRADE SITE LEVEL AND SHALL MAINTAIN A MINIMUM OF 2 TO 1 SLOPE RUNOFF IMMEDIATE SITE AREA. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES FOR CONSTRUCTION TO PREVENT THE DIVERSION OF SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM CENTERLINE OF LEAVING THE CONSTRUCTION SITE. PROPOSED 250' SELF-SUPPORTING CONTRACTOR SHALL CLEAR ENTIRE ACCESS AND UTILITY EASEMENT OF OBSTRUCTIONS AS TOWER FIRST ORDER OF CONSTRUCTION TO ALLOW FOR INSTALLATION OF POWER BY POWER COMPANY. CONTRACTOR TO CONTACT POWER COMPANY SO THEY CAN BEGIN INSTALLATION OF POWER LINE ONCE EASEMENT IS CLEARED. PROPOSED-PROPOSED SILT FENCE 25' x 55' GRAVEL TURNAROUND PROPOSED-12' GRAVELED ACCESS ROAD EXISTING GRAVEL DRIVE € PROPOSED 20' ACCESS & UTILITY EASEMENT TIMOTHY L HARDY GRADING PLAN (SCALE: 1" = 30'-0") REGISTERED PROFESSIONAL ENGINEER SEAL SITE GRADING PLAN REVISION CHK. BY DATE l HARDY ENGINEERING, INC. 11-6-08 A. KIRK 9LV0711A SITE: JARVIS ROAD GREENVILLE, KENTUCKY CHECKED BY : ENGINEERING AND CONSULTING POWERTEL / MEMPHIS, INC. 11-6-08 T.L. HARDY 209 LINDEN STREET, P.O. BOX 708 LOUISVILLE, KENTUCKY TRUSSVILLE, AL 35173 APPROVED BY : AS SHOWN PHONE: (205) 655-1427 FAX: (205) 661-9027 C0LV0711_C0

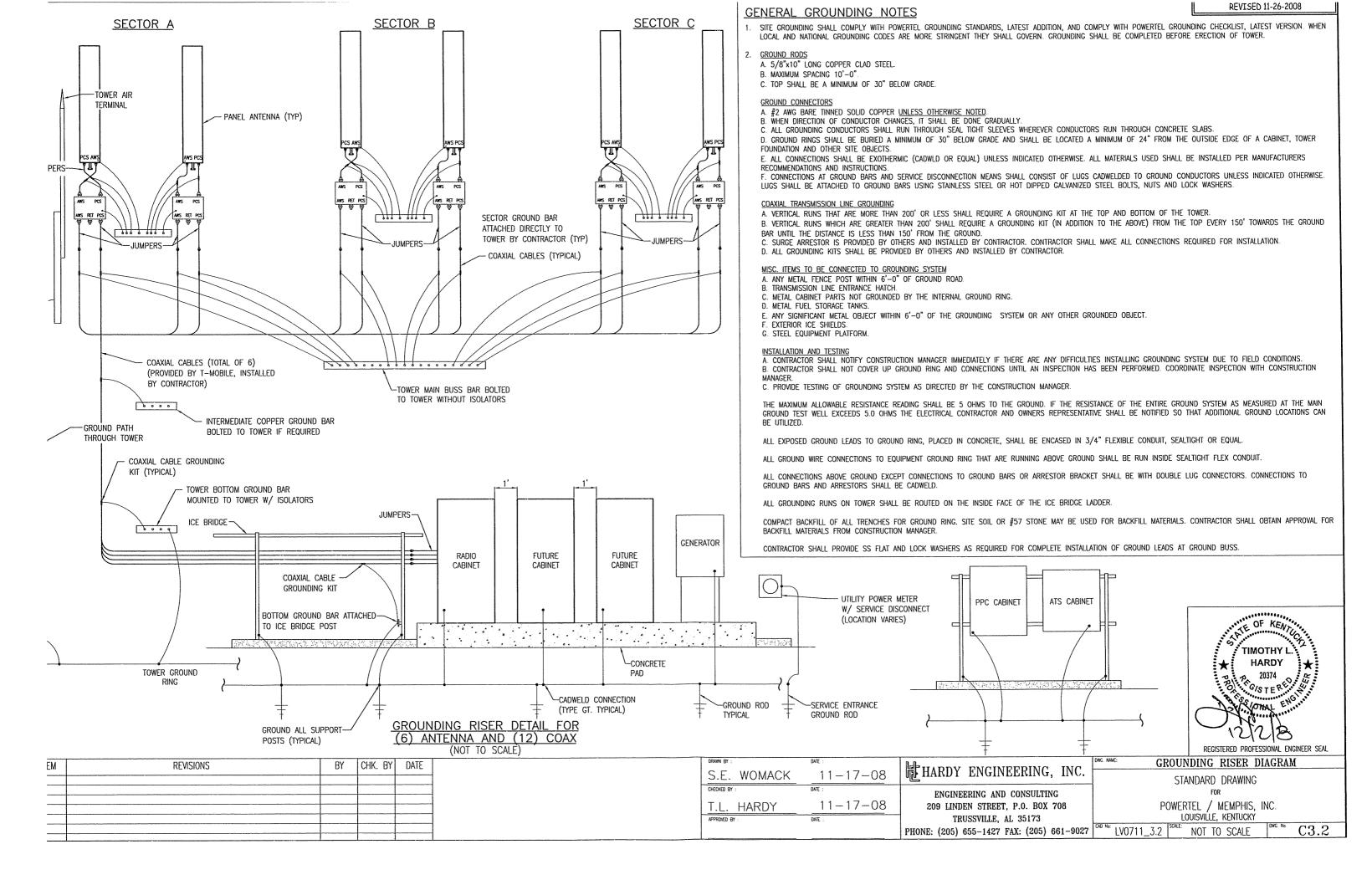


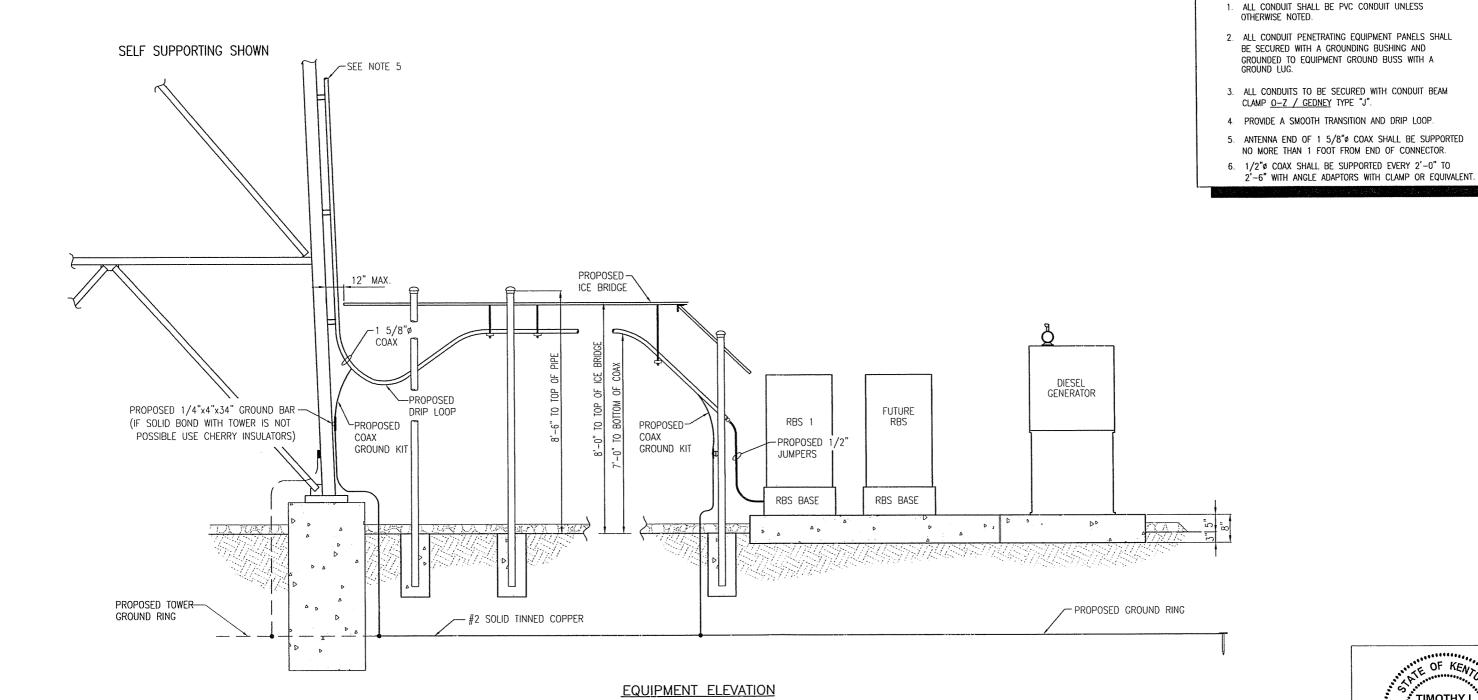








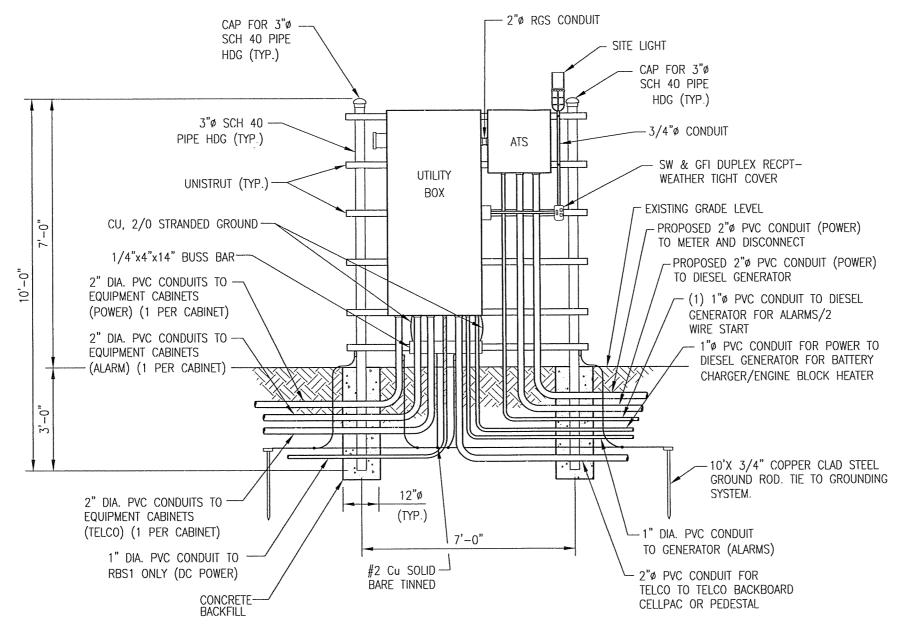




						REGISTERED PROFESSIONAL ENGINEER SEAL
ITEM	REVISIONS	BY CHK. BY DATE	DRAWN BY :	DATE :	1 11 11	DING. NAME: EQUIPMENT ELEVATION
11 Cit	nerioliti	51 01111 51 01110	J.E. STEG	IR 11-06-08	HARDY ENGINEERING, INC.	STANDARD DRAWING
			CHECKED BY :	DATE :	ENGINEERING AND CONSULTING	FOR
			T.L. HARD	11-06-08	209 LINDEN STREET, P.O. BOX 708	POWERTEL / MEMPHIS, INC.
			APPROVED BY :	DATE :	TRUSSVILLE, AL 35173	LOUISVILLE, KENTUCKY
					PHONE: (205) 655-1427 FAX: (205) 661-9027	CAD NOT LV0711_C4   SCALE   DNC. NO C4

**NOTES** 

TIMOTHY L



### UTILITY BOX & ATS SERVICE RACK

SCALE: N.T.S.

EM	REVISIONS	BY	CHK. BY	DATE	DRAIN BY :	DATE :	歸 HARDY ENGINEERING, INC.	DING NAME: ELECTRICAL DETAILS  STANDARD DRAWING		
					J.E. STEGER	10-15-08	THARDI ENGINEERING, INC.			
					CHECKED BY :	DATE :	ENGINEERING AND CONSULTING	FOR		
					T.L. HARDY	10-15-08	209 LINDEN STREET	POWERTEL / MEMPHIS, INC.		
					APPROVED BY :	DATE :	TRUSSVILLE, AL 35173	LOUISVILLE, KENTUCKY		
							PHONE: (205) 655-1427 FAX: (205) 661-9027	$^{\text{CAD No:}}$ NV0711_C5 $^{\text{SCALE:}}$ AS SHOWN $^{\text{DWC. No.}}$ C5		

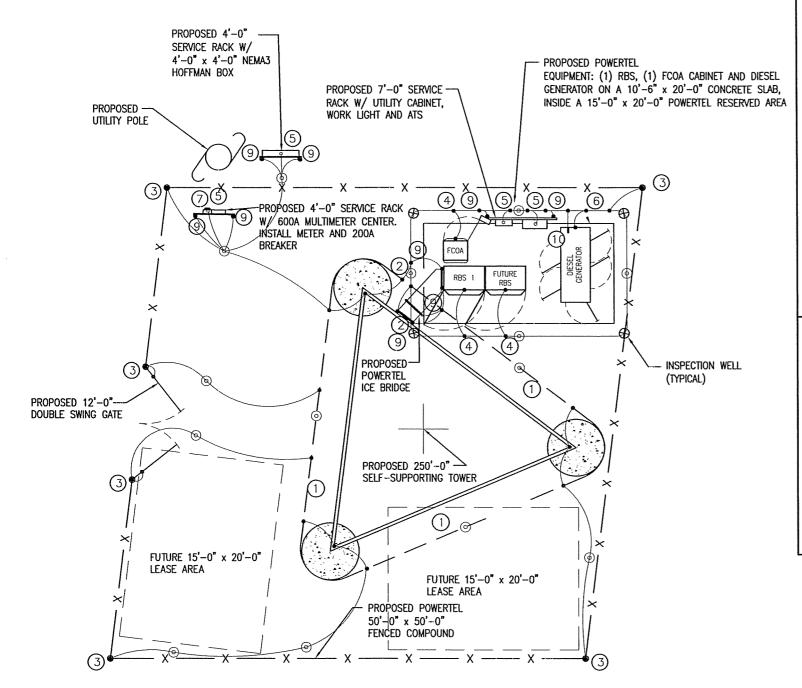
LE OF KENT

TIMOTHY L.

HARDY

CISTERED.

REGISTERED PROFESSIONAL ENGINEER SEAL



#### GROUNDING LAYOUT

(SCALE: 1'' = 10'-0")

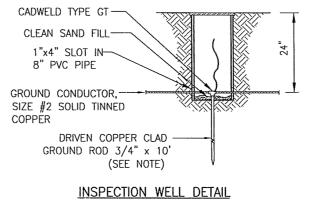
#### **GENERAL NOTES:**

- 1. GROUND RING TO EARTH SHALL BE 5 OHMS OR LESS. ADDITIONAL GROUND RODS MAY HAVE TO BE ADDED TO THE INITIAL 3/4"x10' RODS. USE TEMPORARY BOLTED CONNECTION TO ROD AND PERFORM GROUND RESISTANCE TEST.
- 2. ALL GROUNDING CONDUCTOR SWEEPS SHALL BE SMOOTH WITH NO SHARP BENDS (8" MIN. BEND RADIUS). SWEEPS SHALL BE CAD-WELDED TO GROUND RING WITH PARALLEL CADWELD.
- 3. ALL CADWELDS TO BURIED GROUND RING SHALL BE OF PARALLEL TYPE. NO "TEE" CONNECTIONS TO BE USED.
- 4. USE DE-OX OR NOALOX COMPOUND BETWEEN ALL GROUNDING LUG CONNECTIONS. DO NOT COVER LUGS OR HARDWARE WITH
- 5. ALL MOUNTING & CONNECTING HARDWARE FOR GROUNDING TO BE STAINLESS STEEL ONLY, NO PLATED OR GALVANIZED HARDWARE
- 6. GROUNDING CONDUCTORS TO BE BURIED A MINIMUM OF 30" DEEP UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.
- 7. ALL GROUNDING CONDUCTORS TO BE BARE STRANDED, SOFT DRAWN COPPER UNLESS OTHERWISE SPECIFIED.
- 8. USE ONLY 2-HOLE CADWELD LUGS ON ENDS OF GROUNDING CONDUCTORS. DO NOT USE COMPRESSION OR MECHANICAL TYPE LUGS.

#### CALL-OUT NOTES:

- ( 1 ) PROPOSED TOWER STRUCTURE GROUND RING, CONTRACTOR TO VERIFY.
- CONNECT EXISTING TOWER RING GROUND TO EQUIPMENT RING GROUND ON BOTH SIDES. KEEP INTERCONNECTING WIRING OF EQUAL LENGTH AND TYPE.
- (3) FENCE GROUND
- RBS GROUND, TYP. 2 PLACES, MAIN RBS AND FUTURE.

  INSTALL: CONTRACTOR TO SUPPLY AND INSTALL LUG IN RBS (2106)
  AND ATTACH TO #2 STRAND COPPER TYPE THHN (GREEN) WIRE TO CONNECT RBS TO EXTERNAL GROUND RING. REMOVE INSULATION BELOW GRADE.
- ELECTRICAL AND TELCO EQUIPMENT BUSS BARS.
- REMOVE PAINT FROM SURFACE OF GENERATOR FRAME BEFORE ATTACHING GROUND CONNECTION. USE DE-OX COMPOUND BETWEEN FRAME AND LUG. AFTER TIGHTENING CONNECTION COVER AREA WITH SPRAY ZINC OR COLD GALVANIZING COMPOUND.
- NEUTRAL GROUND BOND AT SERVICE DISCONNECT.
- MINIMUM SPACING OF SLED GROUNDING FROM SLED FOUNDATION,
- ICE BRIDGE & SERVICE BOARD POST GROUND, EACH POST TYP.
- (10) FUEL TANK GROUND



VERIFY WITH PROJECT MANAGER FOR NUMBER AND LOCATIONS

EXISTING TOWER GROUND RING

**LEGEND** 

#2 SOLID TINNED COPPER GROUND CONDUCTOR UNLESS OTHERWISE SPECIFIED.

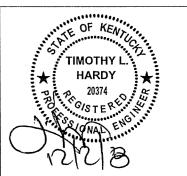
EXOTHERMIC WELD CONNECTION

3/4" x 10' COPPER CLAD STEEL GROUND ROD UNLESS OTHERWISE SPECIFIED.

#2 SOLID TINNED COPPER FROM EQUIPMENT OR STEEL TO GROUND RING UNLESS OTHERWISE **SPECIFIED** 

PORTIONS OF SITE LAYOUT HAVE BEEN REMOVED FOR CLARITY. REFER TO SHEET C1 FOR COMPLETE SITE LAYOUT

NOTE: CONTRACTOR TO VERIFY ALL PROPOSED UTILITIES BEFORE DIGGING



REGISTERED PROFESSIONAL ENGINEER SEAL

C6

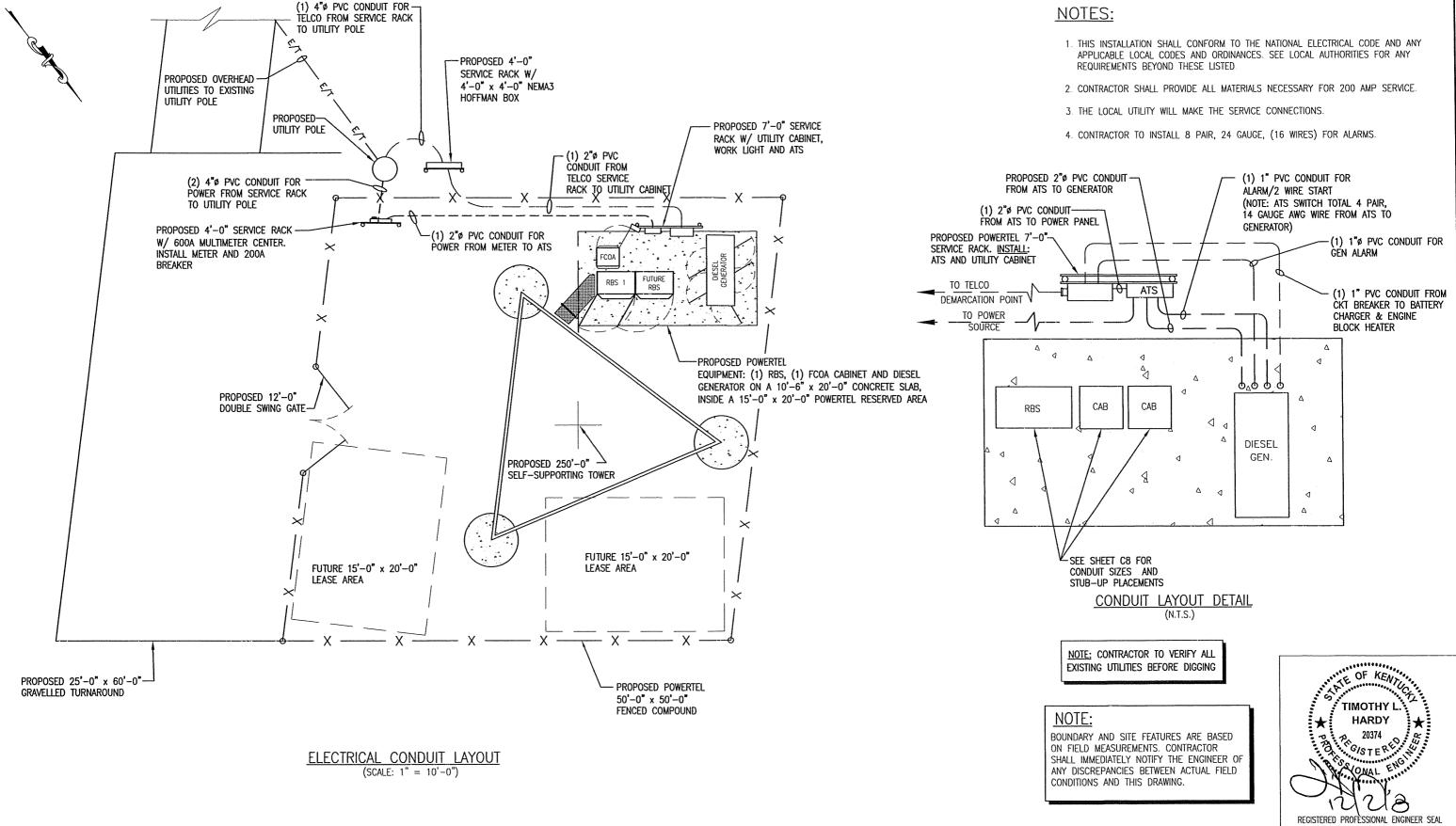
EM	REVISIONS	BY	CHK. BY	DATE	

J.E. STEGER 11-06-08 T.L. HARDY 11-06-08 APPROVED BY

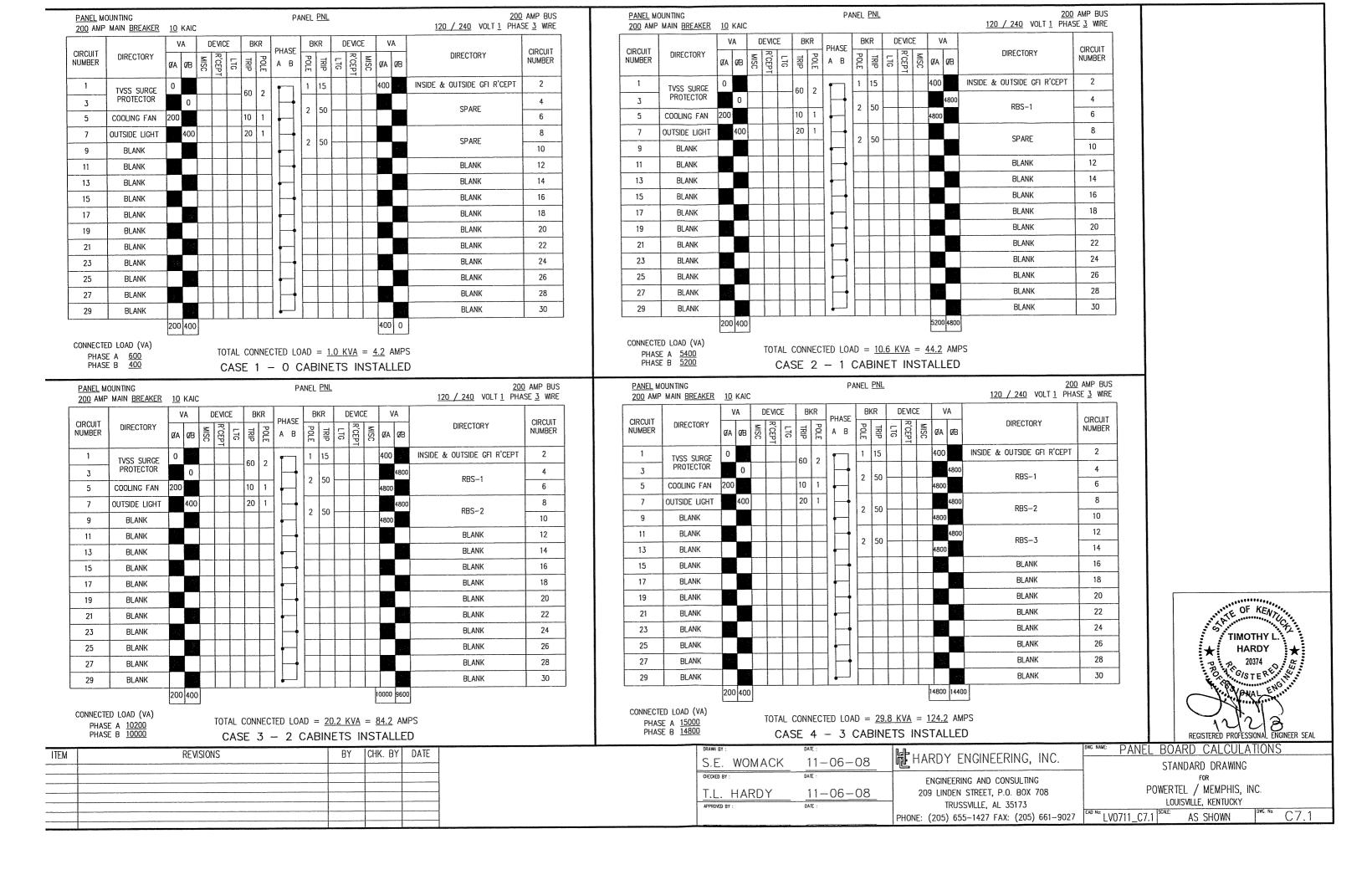
脚 HARDY ENGINEERING, INC. ENGINEERING AND CONSULTING

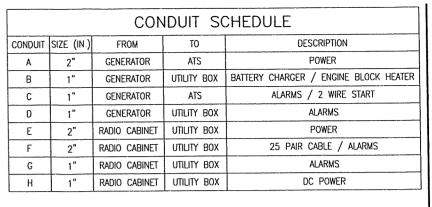
209 LINDEN STREET TRUSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-9027

GROUNDING LAYOUT 9LV0711A SITE: JARVIS <del>ROAD</del> GREENVILLE, KENTUCKY POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY LV0711 C6 AS SHOWN



EM	REVISIONS	BY	CHK. BY	DATE	DRAWN BY:	DATE :	Le MADA ENGINEEDING ING	OHIS NAME: ELECTRICAL CONDUIT LAYOUT
		······································			J.E. STEGER	11-06-08	配 HARDY ENGINEERING, INC.	9LV0711A SITE: JARVIS <del>ROAD-</del>
					CHECKED BY :	DATE :	ENGINEERING AND CONSULTING	GREENVILLE, KENTUCKY
			-		T.L. HARDY	11-06-08	209 LINDEN STREET, P.O. BOX 708	POWERTEL / MEMPHIS, INC.
					APPROVED BY	DATE :	TRUSSVILLE, AL 35173	LOUISVILLE, KENTUCKY
							PHONE: (205) 655-1427 FAX: (205) 661-9027	CAD NO. LVO711_C7 SCALE: AS SHOWN ONC NO. C7

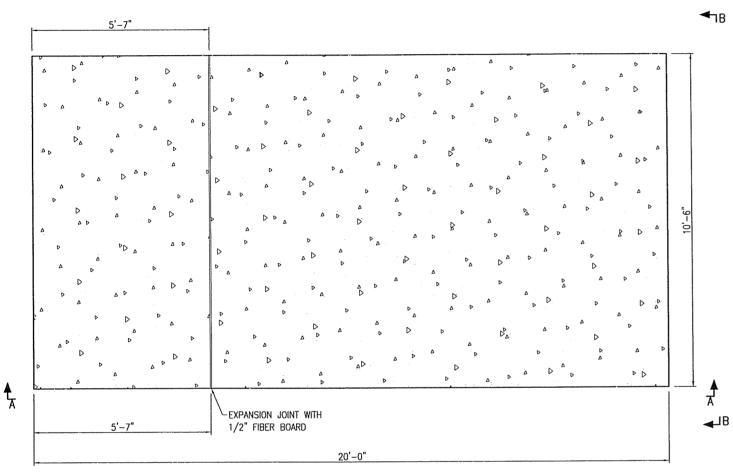


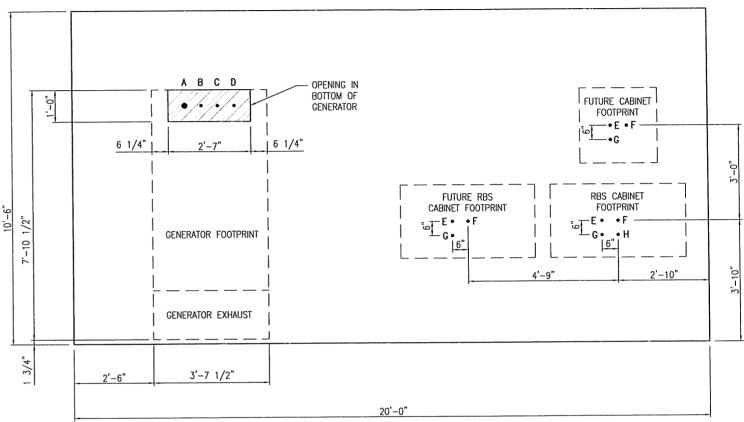


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TIMOTHY L HARDY

REGISTERED PROFESSIONAL ENGINEER SEAL

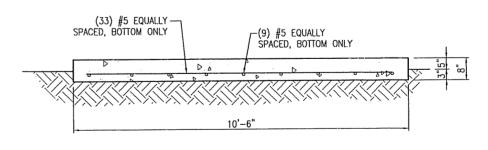




PLAN VIEW

(GENERATOR AND EQPT PAD)

PLAN VIEW
(CONCRETE SLAB)

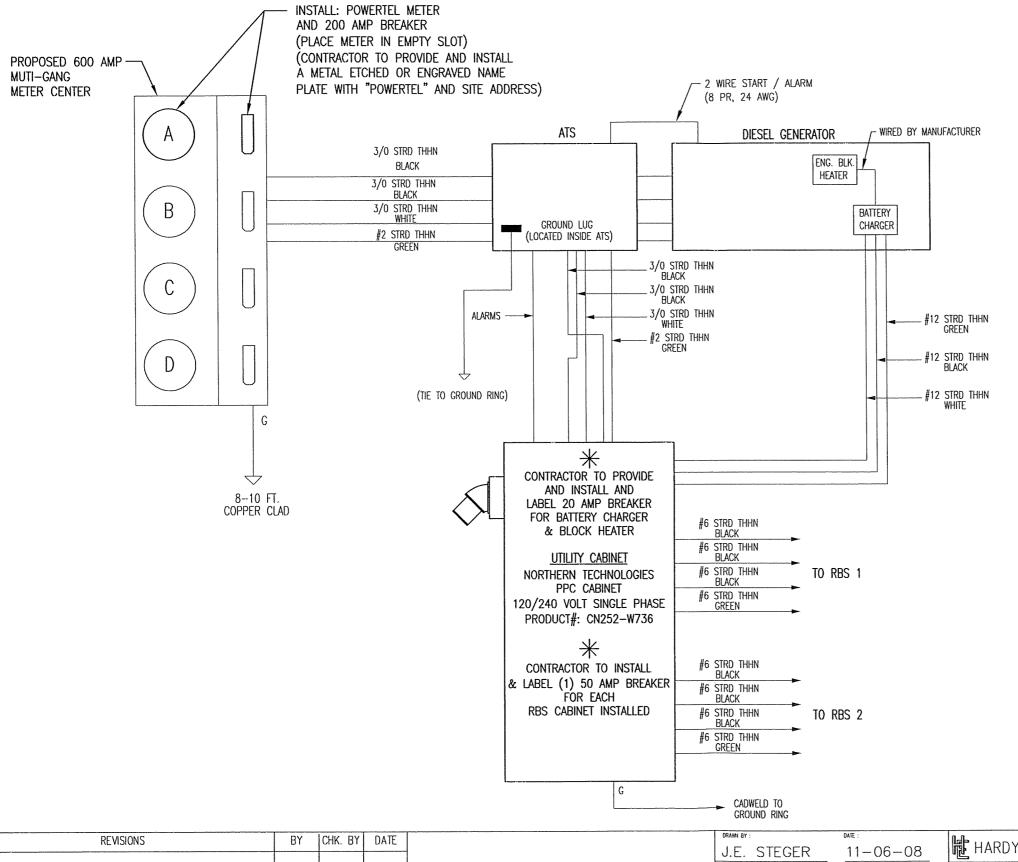


(33) # SPACED, BO	\$5 EQUALLY — DITTOM ONLY		EXPANSION JOINT WITH 1/2" FIBER BOARD	(9) #5 EQUALLY SPACED, BOTTOM ONLY
	5'	-7"		
-			20'-0"	

SECTION A-A

SECTION B-B

-M REVISIONS	BY CHK. BY DATE	DRAWN BY :	DATE :	1 1111	OWC. NAME: CONCRETE FOUNDATION DETAILS
	DI GIR. DI DAIL	S.E. WOMACH	( 11-19-08	能HARDY ENGINEERING, INC.	STANDARD DRAWING
		CHECKED BY :	DATE :	ENGINEERING AND CONSULTING	FOR
		T.L. HARDY	11-19-08	209 LINDEN STREET, P.O. BOX 708	POWERTEL / MEMPHIS, INC.
		APPROVED BY:	DATE :	TRUSSVILLE, AL 35173	POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY
				PHONE: (205) 655-1427 FAX: (205) 661-9027	CAD NO: NVO711_C8   SCALE: NONE   DWG No. C8



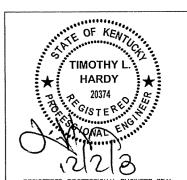
NOTE 1: WHEN INSTALLING TVSS UNIT, USE 3" LONG 1-1/4" CLOSE NIPPLE.

USE LOWEST MOST BREAKER POSITIONS FOR 2P-60A BREAKER AND KEEP ALL WIRING TO TVSS AS SHORT AND DIRECT AS POSSIBLE NO SHARP WIRING BENDS.

NOTE 2: ALL FLEXIBLE OR SEALTITE CONDUITS ARE TO BE METALLIC TYPE ONLY.

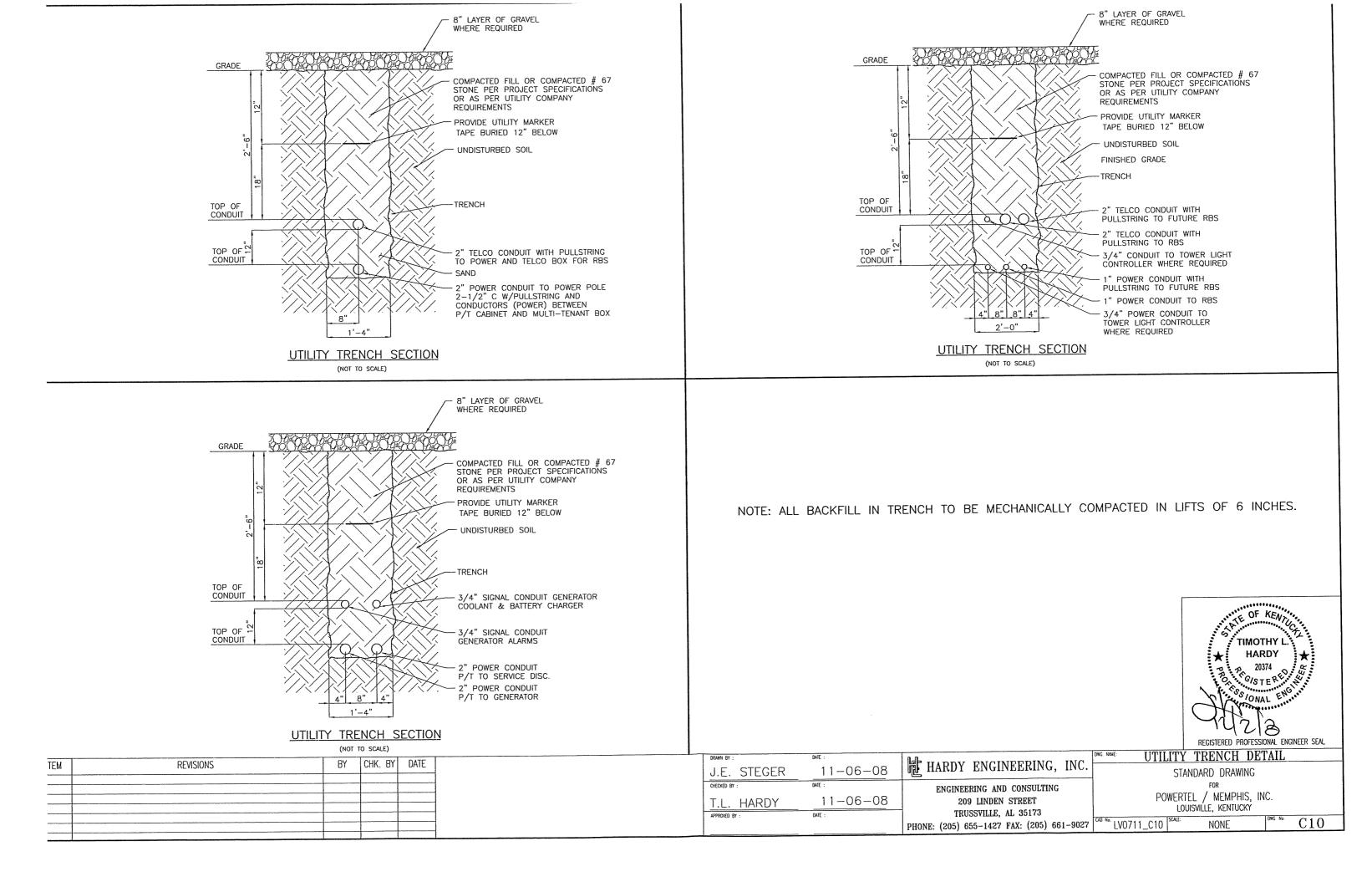
NOTE 3: ALL ELECTRICAL NEUTRAL AND GROUNDING CONDUCTORS ARE TO BE SAME SIZE AS CURRENT CARRYING CONDUCTORS.

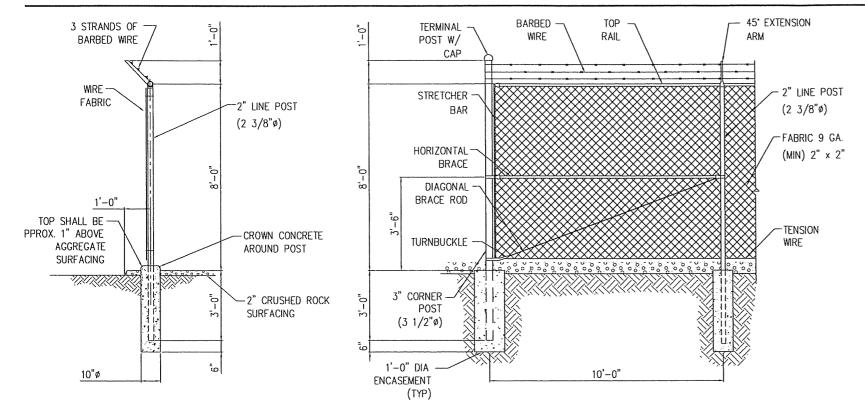
NOTE 4: USE A GROUNDING BUSHING ON ALL CONDUITS THAT ENTER LOAD CENTERS, GENERATOR AND TELCO ENCLOSURE.



REGISTERED PROFESSIONAL ENGINEER SEAL

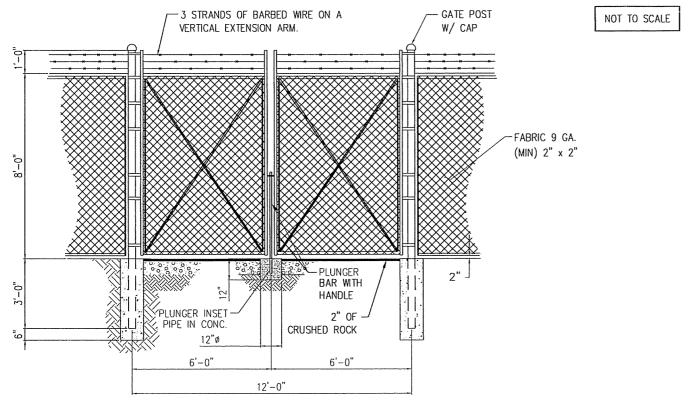
ITEM	REVISIONS	BY	CHK. BY D		DRAWN BY :	DATE :	LE LIABBY ENGINEEDING INC	DIKG. NAME: WIRING DIAGRAM
				<del> </del>	J.E. STEGER	11-06-08	能 HARDY ENGINEERING, INC.	STANDARD DRAWING
					CHECKED BY :	DATE :	ENGINEERING AND CONSULTING	FOR
					T.L. HARDY	11-06-08	209 LINDEN STREET, P.O. BOX 708	POWERTEL / MEMPHIS, INC.
					APPROVED BY :	DATE :	TRUSSVILLE, AL 35173	LOUISVILLE, KENTUCKY
							PHONE: (205) 655-1427 FAX: (205) 661-9027	CAD NOT LVO711_C9 SCALE NOT TO SCALE DWG NO. C9





## TYPICAL FENCE POST

## TYPICAL CORNER POST DETAIL



# 12'-0" DOUBLE SWING GATE DETAIL

ITEM	REVISIONS	BY	CHK. BY	DATE

## 

HARDY ENGINEERING, INC.

ENGINEERING AND CONSULTING
209 LINDEN STREET, P.O. BOX 708

ENGINEERING AND CONSULTING

209 LINDEN STREET, P.O. BOX 708

TRUSSVILLE, AL 35173

PHONE: (205) 655–1427 FAX: (205) 661–9027

MATERIALS FOR CHAIN LINK FENCING SHALL BE AS FOLLOWS. ALL STEEL OR MALLEABLE IRON PARTS
AND ACCESSORIES FOR FRAMEWORK SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH RESIDENTIAL STANDARDS:

FABRIC: RESIDENTIAL FABRIC 11-1/2 GAUGE,  $2\ 1/4$  INCH MESH; GALVANIZED ASTM A392, CLASS 2; TWISTED SELVAGE ON TOP, KNUCKLED SELVAGE ON BOTTOM.

SHALL CONSIST OF GALVANIZED STEEL FRAMEWORK AND GALVANIZED STEEL FABRIC WITH A HEIGHT

COMMERCIAL POST: LINE POST ARE 20 INCH, SCH. 40, 2 1/2 O.D. PIPE

FENCE TYPE:

MATERIALS:

OR IN SLEEVES AS DETAILED.

TERMINAL POSTS (END, CORNER, AND PULL) ARE 2-1/20 INCH, SCH. 40, 2-7/8 INCH O.D. PIPE GATE POST (SWING POSTS) ARE GATE OR LEAF 6ft OR LESS, 2-1/20 INCH, SCH. 40, 2-7/8 INCH O.D. PIPE GATE OR LEAF OVER 6ft WIDE AND UP TO 13ft, 3-1/20 INCH, SCH. 40, 4 INCH O.D. PIPE TOP RAILS ARE 1-5/8 INCH OD (17 GAUGE) PIPE.

MATERIALS: RAIL COUPLINGS: SLEEVE TPE, 6 INCHES EXPANSION SPRING IN EVERY FIFTH COUPLING.

BRACING: PIPE BRACE SAME AS TOP RAIL, WITH 3/8 INCH DIAMETER STEEL ROD TRUSS AND TIGHTENER

POST TOPS: PRESSED STEEL, MALLEABLE IRON WITH PRESSED STEEL EXTENSION ARM, OR ONE--PIECE ALUMINUM CASTING;

WITH HOLE FOR TOP RAIL, DESIGNED TO FIT OVER THE OUTSIDE OF THE POST AND TO PREVENT ENTRY OF MOISTURE

INTO TUBULAR POST. BARBED WIRE: GALVANIZED, ASTM A121 CLASS 3; THREE 14 GAUGE MINIMUM STEEL WIRES WITH 4

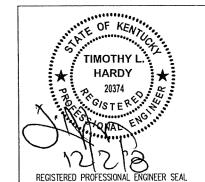
POINT ROUND 14 GAUGE BARBS SPACED 4 INCHES APART.

OF 8 FEET AND AN OVERALL HEIGHT OF 9 FEET FROM THE BOTTOM OF THE FABRIC TO THE TOP BARBED WIRE. THE FENCE SHALL HAVE A TOP RAIL, BOTTOM TENSION WIRE, AND THREE STRANDS OF BARBED WIRE MOUNTED ON VERTICAL EXTENSION ARMS. THE UPPER STRAND SHALL BE APPROXIMATLEY 12 INCHES ABOVE THE TOP OF THE FABRIC. POSTS SALL BE SET IN CONCRETE

STRETCHER BARS: STEEL, 3/16 BY 3/4 INCH, OR EQUIVALENT CROSS—SECTIONAL AREA. FABRIC TIES: ALUMINUM BANDS AND WIRES.

GATE FRAMES: 1-1/20 INCH, SCH. 40, 1-7/8 INCH OD PIPE.

TENSION WIRE: GALVANIZED OR ALUMINUM COATED COIL SPRING WIRE, 7 GAUGE.



FENCE DETAILS

STANDARD DRAWING
FOR
POERTEL / MEMPHIS, INC.
LOUISVILLE, KENTUCKY

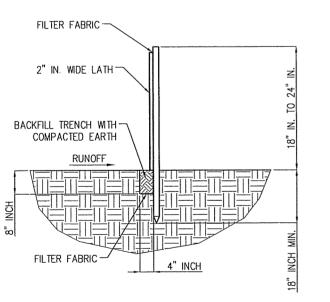
LV0711 C11 SEALE: AS SHOWN OF THE POERT OF THE POERT

## **NSTALLATION:**

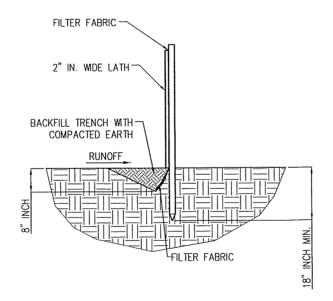
- 1. THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF THE FLOW). THE FENCE SHOULD BE LOCATED AT LEAST 10' FEET FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- 2. A FLAT-BOTTOM TRENCH APPROXIMATELY 4"-INCHES WIDE AND 8"-INCHES DEEP, OR A V-SHAPED TRENCH 8"-INCHES DEEP SHOULD BE EXCAVATED. ON THE DOWN SLOPE SIDE OF THE TRENCH, DRIVE THE 2"-IN. x 2"-IN. WOOD POSTS AT LEAST 18"-INCHES INTO THE GROUND, SPACING THEM NO FURTHER THAN 6'-FEET APART.
- 3. POSTS SHOULD BE INSTALLED, WITH 1" TO 2"-INCHES OF THE POST PROTRUDING ABOVE THE TOP OF THE FABRIC AND NO MORE THAN 3'-FEET OF THE POST SHOULD PROTRUDE ABOVE THE GROUND. THE MINIMUM FENCE HEIGHT (HEIGHT OF FILTER FABRIC ABOVE GRADE) SHALL BE 18"-INCHES. THE MAXIMUM FENCE HEIGHT (HEIGHT OF FILTER FABRIC ABOVE GRADE) SHALL BE 24 INCHES.
- 4. THE FILTER FABRIC SHOULD BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHOULD BE WRAPPED TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6"-INCH OVERLAP.
- 5. EXTRA-STRENGTH FILTER CLOTH (50 POUNDS / LINEAR INCH MINIMUM TENSILE STRENGTH) SHOULD BE USED. A 2"-INCH WIDE LATHE SHALL BE STAPLED OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF THE POSTS. THE STAPLES USED SHOULD BE 1.5"-INCH HEAVY-DUTY WIRE STAPLES SPACED A MAXIMUM OF 8"-INCHES APART.
- 6. PLACE THE BOTTOM 12"-INCHES OF THE FILTER FABRIC INTO THE 8"-INCH DEEP TRENCH, EXTENDING THE REMAINING 4"-INCHES TOWARDS THE UPSIDE OF THE TRENCH AND BACK FILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACTED.

## INSPECTION AND MAINTENANCE:

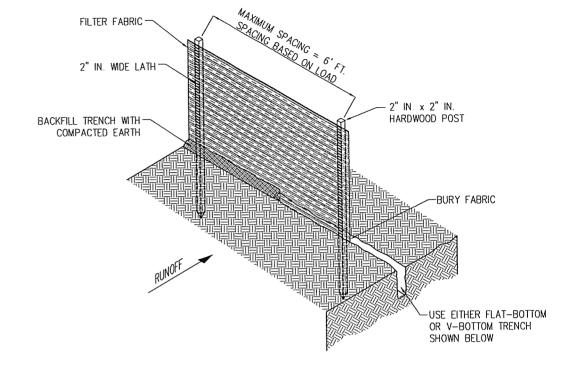
- 1. INSPECT SILT FENCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2"-INCH OR MORE OF PRECIPITATION. CHECK FOR AREAS WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE WAS CAUSED TO SAG OR COLLAPSE BY RUNOFF OVER TOPPING THE FENCE.
- 2. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY OTHER WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.
- 3. SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
- 4. SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHOULD BE REMOVED OR STABILIZED ON SITE. DISTURBED AREAS RESULTING FROM FENCE REMOVAL SHALL BE PERMANENTLY STABILIZED.



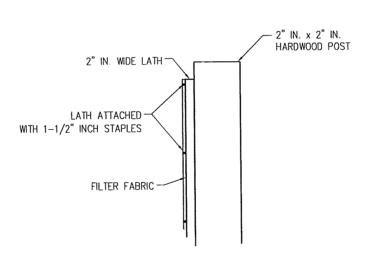




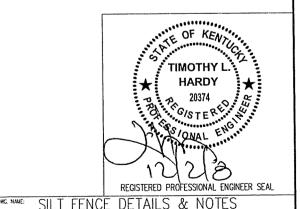
V-SHAPED TRENCH DETAIL



SILT FENCE INSTALLATION



FABRIC ATTACHMENT DETAIL



ГЕМ	REVISIONS	BY	CHK. BY	DATE		DRAWN BY :	DA1
1 LIVI	I/E YIJIONYJ		OHN. DT	DATE		J.E. STEGER	
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			<del> </del>		-		gn.
						T.L. HARDY	
						APPROVED BY :	DA

DRAHN BY: J.E. STEGER	DATE: 11-06-08	₩H/
CHECKED BY :	DATE :	
T.L. HARDY	11-06-08	2
APPROVED BY :	DATE :	DHUNE-

ENGINEERING, INC.

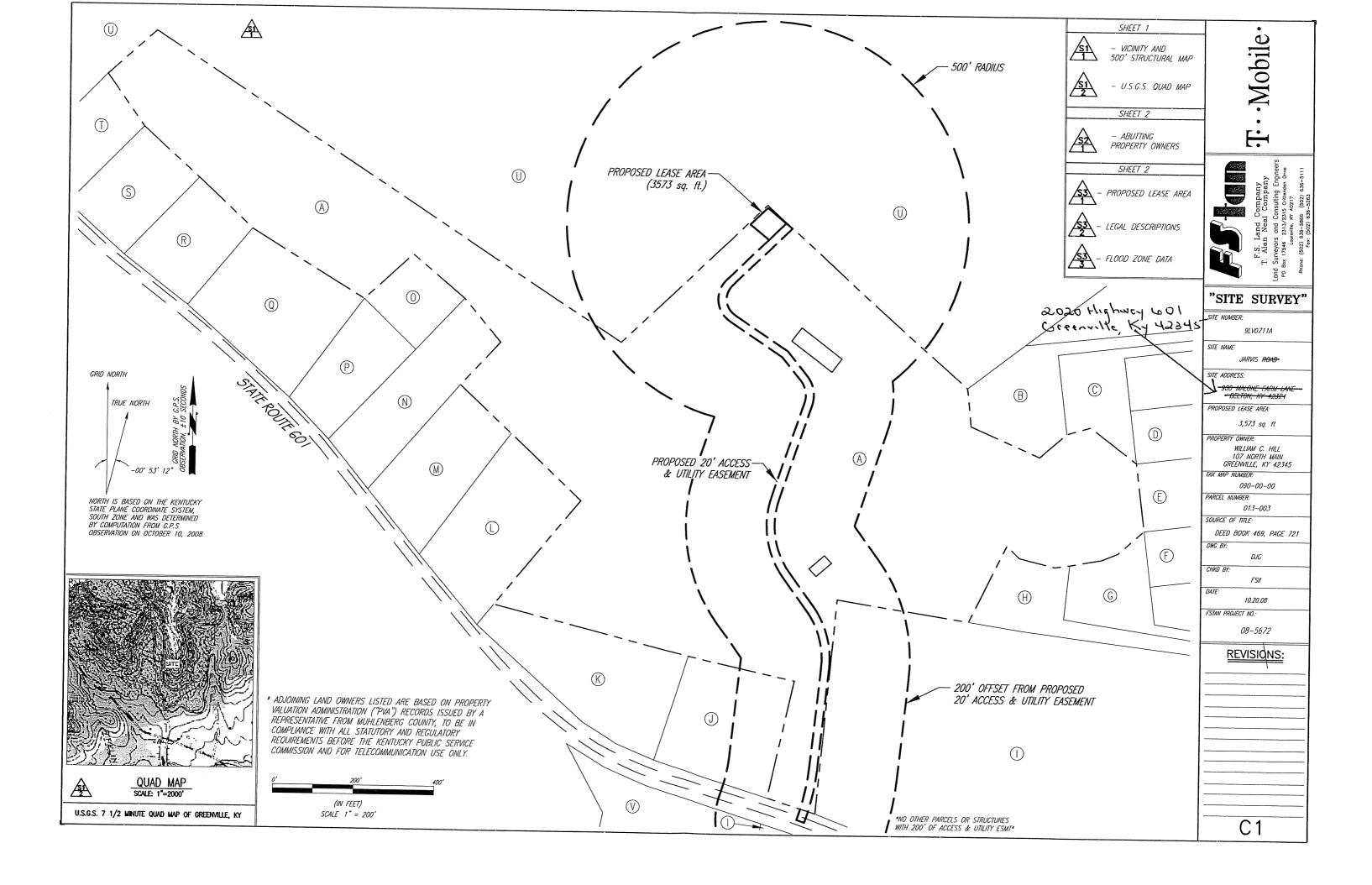
ENGINEERING AND CONSULTING
209 LINDEN STREET, P.O. BOX 708
TRUSSVILLE, AL 35173
PHONE: (205) 655–1427 FAX: (205) 661–9027

TRUSSVILLE AL 35173

PHONE: (205) 655–1427 FAX: (205) 661–9027

	SIET TEITOE DETITIES OF THE
	STANDARD DETAILS FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY
_	ISCALE: 10M

LV0711_C12 STALE: NTS C12



Customer Name: T-MOBILE (TENNESSEE)

ASTM

Site: 9LV0711 JARVIS ROAD- MUHLENBURG COUNTY- KY



P.O. BOX 8597 FORT WORTH, TX 76124-0597 PHONE: (800) 433-1816 FAX: (817) 255-8656

	JO	B DA	Ŧ.	A	
Page 1 of 1		Job No.			J081119001-A
Ву	HD/tw	Design No.			S08-0471-A Nov 20 2008
Chk'd By	TU	Rev. No.	0	Rev. Date	NOV 20 2006
Structure	250-FT SST				
Ref. No.	0400\0471	\J0811190	001-	-A\J08111	9001-A.out
Design Standard	ANSI/TIA-222-	G-2005 A	dde	ndum 1	

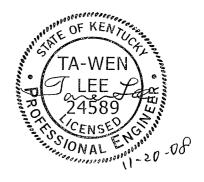
GENERAL DESIG	N CONDITIONS
	Structure Class: II
Iced Wind Speed: 30.00(mph)	Exposure Category: C
Service Wind Speed: 60.00(mph)	Topographic Category: 1
Ice Thickness: 0.75(in)	_ '

	ANTENNA LIST									
No.	Elev.(FT)		Antenna	Mount Type	AZ (*)	COAX				
1	250	(1)	Lightning Rod		0					
2	250	(4)	TMBX-6517-R2M	AM110-P-12'	0	18)LDF7P-50A				
3	250	(4)	TMBX-6517-R2M	AM110-P-12'	120					
4	250	(4)	TMBX-6517-R2M	AM110-P-12'	240					
5	235	(4)	TMBX-6517-R2M	AM110-P-12'	0	12)LDF7P-50A				
6	235	(4)	TMBX-6517-R2M	AM110-P-12'	120					
7	235	(4)	TMBX-6517-R2M	AM110-P-12'	240					
8	220	(4)	TMBX-6517-R2M	AM110-P-12'	0	12)LDF7P-50A				
9	220	(4)	TMBX-6517-R2M	AM110-P-12'	120					
10	220	(4)	TMBX-6517-R2M	AM110-P-12'	240					

	_	LIN	I E A I	₹ .	A P	ΡU	RT	ENA	N C	E S	
U	iT	EP BOLTS OF	N ONE	LEG							
(	1	)-Wavequide	Ladder	: 0'-	-250	' On	Towe	r Face	(AZ):	60	deq
(	1	)-Wavequide	Ladder	: 0'-	-235	'On	Towe	r Face	(AZ):	180	deq
7	1	)-Wavequide	Ladder	: 0'-	-220	'On	Towe	r Face	(AZ):	300	deq

	COAXIAL	LINES DIST	RIBUTION				
HEIGHT FACE 1 FACE 2 FACE 3 TO							
250'	18D		-	18			
235'		12D	_	12			
220'		_	12D	12			

(D = DOUBLE STACKED)





Г	MEMBER TABLE LEGEND
	L3X3X3/16
G	L4X4X1/4
	L3 1/2X3 1/2X1/4
	L2 1/2X2 1/2X3/16
E	L3X3X1/4
В	L2X2X3/16
Y	L1 3/4X1 3/4X3/16

## FACTORED BASE REACTIONS

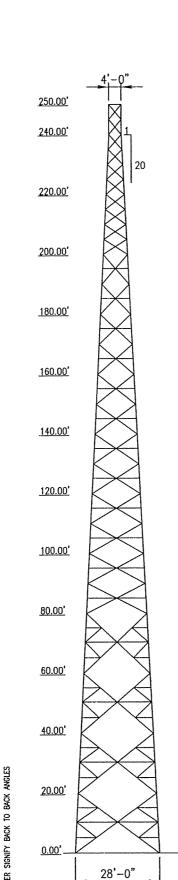
UPLIFT/LEG: 333.7 KIPS. O.T. MOMENT: COMP./LEG: 400.2 KIPS.

MAX. DOWNLOAD:

9117.1FT-KIPS. 54.5 KIPS. 68.1 KIPS.

HORIZ./LEG: 40.3 KIPS. TOTAL SHEAR: EST.WEIGHT: 37.5KIPS. (No SPL or Gussets)

50 KSI		,	A36			ļ	<b>3</b> 25	•	A36	
2	<b>&gt;</b>	Ф	N/R	N/R	N/R	2-1/2	1-5/8	4-5/8		
2	<b>&gt;</b>	N/R	N/R	N/R	N/R	2-1/2	N/R	4-5/8		
2 1/4	>	N/R	N/R	N/R	N/R	2-1/2	N/R	6-5/8		
2 1/2	ပ	В	N/R	N/R	N/R	2-5/8	1-5/8	6-3/4		
2 3/4	ပ	В	N/R	N/R	N/R	2-5/8	1-5/8	6-3/4		
3	Q	၁	N/R	N/R	N/R	2-5/8	1~5/8	8/2-9		
3 1/4	٥	ပ	N/R	N/R	N/R	2-5/8	1-5/8	6-1		
3 1/4	Ę	O	N/R	N/R	N/R	2-5/8	1-5/8	6-1		
3 1/2	ч.	O	N/R	N/R	N/R	2-5/8	1-5/8	61		
3 1/2	သ	m	a	ပ	8	2-5/8	1-5/8	6-1		
3 3/4	aa	L	٥	ပ	O	2-5/8	1-5/8	6-1 1/8	HOR ROD LENGTH	
3 3/4	8	L	L	3	O	2-5/8	1-5/8	6-1 1/8	(6) - 1 3/40 x 5'-6" TOTAL ANCHOR ROD LENGTH	ANGLES
4	8	9	L	Q	O	2-5/8	1-5/8	N/R	(6) - 1 3/40 x	Y BACK TO BACK
LEGS (%) 50 KSI	DIAGONALS 36 KSI	GIRTS	INT BRACING	SUB DIAG.	SUB GIRTS	DIAG BOLTS ("ø)	RDNT BOLTS ("ø)	SPLICE BOLTS (*4)	ANCHOR RODS ("ø)	Note: DOUBLE LETTER SIGNIFY BACK TO BACK ANGLES



5750 East 1-20 Fort Worth, Texas 76119 U.S.A. (817) 255-3060 FAX (817) 255-8656

ANCHOR BOLT THREADS ABOVE CONCRETE SHOULD BE PROTECTED DURING FOUNDATION INSTALLATION.

SEE FOUNDATION DESIGN FOR SPECIFIC INSTALLATION INFORMATION AND DESIGN CRITERIA. TOP OF FINISHED CONCRETE MUST BE AT THE SAME ELEVATION UNDER ALL TOWER LEGS.

рконівітер. THE DOCUMENT AND THE INFORMATION CONTIDENTAL OF THE INC. DUPLOCATION OR DISSEMINATION WITHOUT PROOF WHILES DOCUMENT AND THE SOLE PROPERTIES CONSENTED OF FAIL INC. INC. IN THE SOLE PROPERTIES OF THE SOLE PRO

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**LIECD NOTES:** 

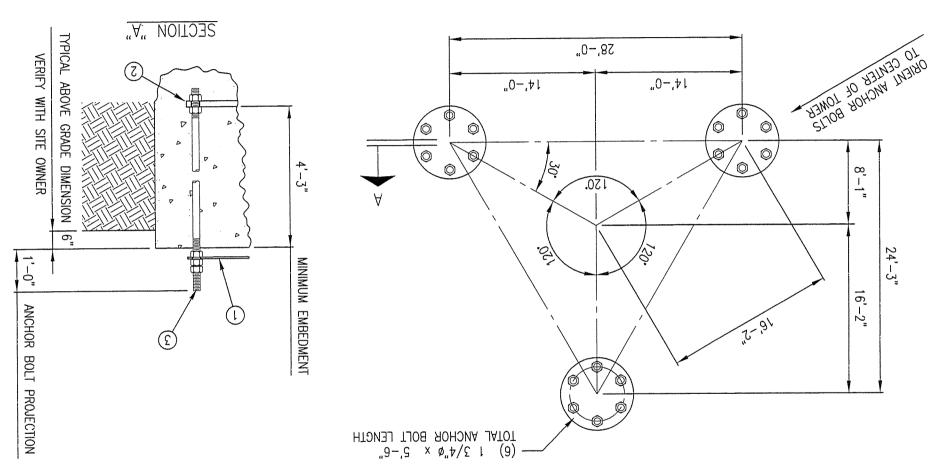
ANCHOR BOLT ORIENTATION - SEE BELOW

1.) VERIFY TOWER ORIENTATION WITH CUSTOMER.

ANCHOR BOLTS TO BE SET WITH FURNISHED ANCHOR BOLT TEMPLATES.

AB0000	A-100611180L			NOITAJJA:	LSNI	GOR 9	ANCHOF
DRAWING NO.							DRAWING TITLE
SHEEL 1 OF 1	80-voN-02 :3TAD	- KJ	COUNTY-	MOHLENBURC	-dA0		
SHEEL NO.	SCOTE: NONE						SPECIFIC INFORMAT
- M950:21/800008/11/00/00	BA-A-100011180L/JURI119001/E1/	0:/JOB/BOL/10 :3JF1 GAD	_	CHECKED BJ:		<u> </u>	DRAWN 8Y:
798 ]	DESCRIPTION		.TINI			ATE	REV. C

# PLAN VIEW



	TOTAL CALVANIZED WEIGHT/Ibs			
				01
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	1 3/4"ø A36 ANCHOR ROD x 5'-6"	81		ξ
	MOTTOR ® 3TAJ9 ROHONA	3		7
	TEMPLATE @ TOP	ξ		l.
WEICHT/IDS	DESCRIPTION	MO	MARK NO.	ITEM





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Contract: S08-0471-A: J081119001-A

Project: 250-FT:SST:13-SECTIONS

Date and Time: 11/20/2008 11:10:37 AM

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

Revision: 0

Section A: PROJECT DATA

Project Title: 250-FT:SST:13-SECTIONS Customer Name: T-Mobile (Tennessee)

Site: 9LV0711 Jarvis Road- Muhlenburg County- KY

Contract No.: S08-0471-A:J081119001-A

Revision: 0 HD/tw Engineer: Nov 20 2008 Date: 11:09:18 AM Time:

Design Standard: ANSI/TIA-222-G-2005 Addendum 1

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg) End wind direction: 330.00 (Deg) Increment wind direction: 30.00 (Deg) Elevation above ground: 0.00(ft) Gust Response Factor Gh: 0.85 Structure class: ΙI Exposure category: C

Topographic category: 1 Material Density: 490.1(lbs/ft^3) Young's Modulus: 29000.0(ksi)

Poisson Ratio: 0.30 Weight Multiplier: 1.03

Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:

Basic Wind Speed (No Ice): 90.00 (mph) Directionality Factor Kd: 0.85 Importance Factor I: 1.00 Wind Load Factor: 1.60 Dead Load Factor: 1.20 Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:

Basic Wind Speed (With Ice): 30.00(mph) Directionality Factor Kd: 0.85 Importance Factor I: 1.00 Ice Thickness: 0.75(in) Ice Density: 56.19(lbs/ft³)

Wind Load Factor: 1.00

Dead Load Factor: 1.20 Ice Load Factor: 1.00

WIND ONLY SERVICEABILITY CONDITIONS:

Serviceability Wind Speed: 60.00 (mph) Directionality Factor Kd: 0.85 Importance Factor I: 1.00 Wind Load Factor: 1.00 Dead Load Factor: 1.00

PATTERN LOADING (IF APPLICABLE) CONDITIONS:

90.00(mph) Basic Wind Speed (No Ice): Directionality Factor Kd: 0.85





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Contract: S08-0471-A:J081119001-A

Project: 250-FT:SST:13-SECTIONS

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

Revision: 0

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section Height Tot Height # of Section Bot Width Top Width (ft) (ft) (in) (in)

Triangular 250.00 250.00 13 336.00 48.00

#### SECTION GEOMETRY

Sec	Sec. Name	Elevation Widths Masses					Brcg.					
		Bottom	Top	Bottom	Top	Legs	Brcg.	Sec.Brc	Int.Brc	Sect.	Database	Clear.
#		(ft)	(ft)	(in)	(in)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(in)
13	2X20A000040410	240.00	250.00	48	48	438	197	0	0	634	489	0.787
1.2	4X20A000040620	220.00	240.00	72	48	847	369	0	0	1217	1101	0.787
11	4X22A000060820	200.00	220.00	96	72	1027	449	0	0	1476	3029	0.787
10	GX25C000081020	180.00	200.00	120	96	1167	510	135	0	1812	3274	0.787
9	GX27C000101220	160.00	180.00	144	120	1403	563	165	0	2130	2114	0.787
8	GX30D000121420	140.00	160.00	168	144	1659	752	246	0	2657	2657	0.787
7	GX32D000141620	120.00	140.00	192	168	1936	827	284	0	3047	3053	0.787
6	GX32E000161820	100.00	120.00	216	192	1954	1194	390	0	3538	4762	0.787
5	GX35F000182020	80.00	100.00	240	216	2252	1527	436	0	4214	5331	0.787
4	BX35CCD0202220	60.00	80.00	264	240	2247	1099	750	120	4215	5816	0.787
3	BX37DDD0222420	40.00	60.00	288	264	2675	1398	916	132	5120	5328	0.787
2	BX37DDF0242620	20.00	40.00	312	288	2541	1468	985	222	5215	8186	0.787
1	BX40DDF0262820	0.00	20.00	336	312	2970	1541	1192	240	5943	7030	0.787
Tota	l Mass:					23116	11893	5497	713	41220	52169	

## PANEL GEOMETRY

Sec#	Pnl#	Туре	SecBrcg	Mid. Horiz	Horiz	Height	Bottom	Top	Plan	Híp	Gusset	Gusset
				Continuous			Width	Width	Bracing	Bracing	Plate	Plate
											Area	Weight
						(ft)	(in)	(in)			(ft^2)	(lbs)
13	2	X	(None)		Yes	5.0	48.0	48.0	(None)	(None)	0.850	17.35
13	1	X	(None)		None	5.0	48.0	48.0	(None)	(None)	0.850	17.35
12	4	X	(None)		None	5.0	54.0	48.0	(None)	(None)	0.737	15.02
12	3	X	(None)		None	5.0	60.0	54.0	(None)	(None)	0.737	15.02
12	2	X	(None)		None	5.0	66.0	60.0	(None)	(None)	0.737	15.02
12	1	X	(None)		None	5.0	72.0	66.0	(None)	(None)	0.737	15.02
11	4	X	(None)		None	5.0	78.0	72.0	(None)	(None)	0.753	15.34
11	3	X	(None)		None	5.0	84.0	78.0	(None)	(None)	0.753	15.34
11	2	X	(None)		None	5.0	90.0	84.0	(None)	(None)	0.753	15.34
11	1	X	(None)		None	5.0	96.0	90.0	(None)	(None)	0.753	15.34
10	2	X	2-Subdiv.	No	None	10.0	108.0	96.0	(None)	(None)	1.055	21.54
10	1	Х	2-Subdiv.	No	None	10.0	120.0	108.0	(None)	(None)	1.055	21.54
9	2	X	2-Subdiv.	No	None	10.0	132.0	120.0	(None)	(None)	1.200	24.50
9	1	X	2-Subdiv.	No	None	10.0	144.0	132.0	(None)	(None)	1.200	24.50
8	2	X	2-Subdiv.	No	None	10.0	156.0	144.0	(None)	(None)	1.345	27.46
8	1	Х	2-Subdiv.	No	None	10.0	168.0	156.0	(None)	(None)	1.345	27.46
7	2	X	2-Subdiv.	No	None	10.0	180.0	168.0	(None)	(None)	1.491	30.42
7	1	Х	2-Subdiv.	No	None	10.0	192.0	180.0	(None)	(None)	1.491	30.42
6	2	X	2-Subdiv.	No	None	10.0	204.0	192.0	(None)	(None)	1.636	33.38
6	1	Х	2-Subdiv.	No	None	10.0	216.0	204.0	(None)	(None)	1.636	33.38
5	2	X	2-Subdiv.	No	None	10.0	228.0	216.0	(None)	(None)	1.200	36.34
5	1	X	2-Subdiv.	No	None	10.0	240.0	228.0	(None)	(None)	1.200	36.34
4	1	X	4-Subdiv.	Yes	None	20.0	264.0	240.0	2-Subdiv.	(None)	3.488	71.15
3	1	X	4-Subdiv.	Yes	None	20.0	288.0	264.0	2-Subdiv.	(None)	3.681	112.70



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Contract: S08-0471-A:J081119001-A Revision: 0

Project: 250-FT:SST:13-SECTIONS Site: 9LV0711 Jarvis Road- Muhlenburg C

Date and Time: 11/20/2008 11:10:37 AM Engineer: HD/tw

Ducc	and III	10: 11/20/1000 11:	10.07 1111				g.11001.	1127 011			
7/1	Leg	SR 3 1/4	A572 gr.50Te	ngion	6-1 000	A325X					
7/1	Diag	L3x3x3/16	-	lted	2-0.625	A325X	1 250	1.500	0.250	3 000	
7/1	SecH1	L2 1/2x2 1/2x3/16		lted	1-0.625	A325X		1.250	0.250		
,,,	DC0211	12 1, 222 1, 223, 10	1150	71000	1 0.023	115251	2.250	2.250	0.25,5	1.0.5	
6/2	Leg	SR 3 1/4	A572 gr.50Te	nsion	6-1.000	A325X					
6/2	Diag	L3x3x1/4	_	lted	2-0.625	A325X	1.250	1.500	0.250	3.000	
6/2	SecHl	L3x3x3/16		lted	1-0.625	A325X		1.500	0.250	1.875	
6/1	Leg	SR 3 1/4	A572 gr.50Te			A325X					
6/1	Diag	L3x3x1/4	-	lted	2-0.625	A325X	1.250	1.500	0.250	3,000	
6/1	SecH1	L3x3x3/16		lted	1-0.625		1.250	1.500	0.250		
•		•									
5/2	Leg	SR 3 1/2	A572 gr.50Te	ension	6-1.000	A325X					
5/2	Diag	L3 1/2x3 1/2x1/4	A36 Bo	olted	2-0.625	A325X	1.250	1.750	0.250	3.000	
5/2	SecH1	L3x3x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.500	0.250	1.875	
5/1	Leg	SR 3 1/2	A572 gr.50Te	ension	6-1.000	A325X					
5/1	Diag	L3 1/2x3 1/2x1/4	A36 Bo	olted	2-0.625	A325X	1.250	1.750	0.250	3,000	
5/1	SecH1	L3x3x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.500	0.250	1.875	
4/1	Leg	SR 3 1/2	A572 gr.50Te		6-1.000	A325X					
4/1	Diag	2L2 1/2x2 1/2x3/16		olted	2-0.625	A325X		1.250		3.000	0.250 4.00
4/1	SecD1	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250	0.250		
4/1	SecD2	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250	0.250		
4/1	SecH1	L3x3x1/4		olted	1-0.625		1.250	1.500	0.250		
4/1	SecH2	L2x2x3/16		olted	1-0.625		1.250	0.875	0.250		
4/1	SecH3	L2x2x3/16		olted	1-0.625		1.250	0.875		1.875	
4/1	PlanH1	L3x3x3/16	A36 Bo	olted	1-0.625	A325X	1.125	1.500	0.375	1.875	
3/1	Leg	SR 3 3/4	A572 gr.50Te	maian	6-1.125	A325X					
3/1	Diag	2L3x3x3/16	_	olted	2-0.625		1.250	1.500	n 275	3.000	0.375 4.00
3/1	SecD1	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250		1.875	0.373 4.00
3/1	SecD1	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250		1.875	
3/1	SecH1	L3 1/2x3 1/2x1/4		olted	1-0.625		1.250	1.750		1.875	
3/1	SecH2	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250		1.875	
3/1	SecH3	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250	0.375		
3/1	PlanH1	L3x3x3/16		olted	1-0.625		1.125	1.500		1.875	
-,-											
2/1	Leg	SR 3 3/4	A572 gr.50Te	nsion	6-1.125	A325X					
2/1	Diag	2L3x3x3/16	A36 Bo	olted	2-0.625	A325X	1.250	1.500	0.375	3.000	0.375 4.00
2/1	SecD1	L2 1/2x2 1/2x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.250	0.375	1.875	
2/1	SecD2	L2 1/2x2 1/2x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.250	0.375	1.875	
2/1	SecH1	L3 1/2x3 1/2x1/4	A36 Bo	olted	1-0.625	A325X	1.250	1.750	0.375	1.875	
2/1	SecH2	L2 1/2x2 1/2x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.250	0.375	1.875	
2/1	SecH3	L2 1/2x2 1/2x3/16	A36 Bo	olted	1-0.625	A325X	1.250	1.250	0.375	1.875	
2/1	PlanH1	L3 1/2x3 1/2x1/4	A36 Bo	olted	1-0.625	A325X	1.125	1.750	0.375	1.875	
1/1	Leg	SR 4	A572 gr.50Te			A325X					
1/1	Diag	2L3x3x3/16		olted	2-0.625		1.250	1.500			0.375 4.00
1/1	SecD1	L3x3x3/16		olted	1-0.625		1.250	1.500	0.375		
1/1	SecD2	L3x3x3/16		olted	1-0.625		1.250	1.500		1.875	
1/1	SecH1	L4x4x1/4		olted	1-0.625		1.250	2.000		1.875	
1/1	SecH2	L2 1/2x2 1/2x3/16		olted	1-0,625		1.250	1.250		1.875	
1/1	SecH3	L2 1/2x2 1/2x3/16		olted	1-0.625		1.250	1.250	0.375	1.875	
1/1	PlanH1	L3 $1/2x3 1/2x1/4$	A36 Bo	olted	1-0.625	A325X	1.125	1.750	0.375	1.875	



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Project: 250-FT:SST:13-SECTIONS

Date and Time: 11/20/2008 11:10:37 AM

Revision: 0

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Part of Face	Vert.	Antenna	User	Ka
1	0.00	250.00	LDF7P-50A	13.37	60.00	7.20	18	2		No	TMBX-6517-R2	2M	
2	0.00	235.00	LDF7P-50A	13.37	180.00	127.20	12	2		No	TMBX-6517-R2	2M	
3	0.00	220.00	LDF7P-50A	13.37	300.00	247,20	12	2		No	TMBX-6517-R2	2M	

#### Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	LDF7P-50A	2.01	2.01	0.92	2.500	2.000
2	LDF7P-50A	2.01	2.01	0.92	2.500	2.000
3	LDF7P-50A	2.01	2.01	0.92	2.500	2.000



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Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

Section G: WIND LOAD DATA

Load Combination

Wind Only

Wind Direction

0.00 (deg)

#### Wind Pressure

Section	Panel	Bot Elev (ft)	Top Elev	Kz	Kzt	Wind Pressure (psf)	Ice Thickness
		(10)	(10)			(Par)	(012) (111)
13	2	245.00	250.00	1.53	1.00	36.68	0.000
	1	240.00	245.00	1.53	1.00	36.52	0.000
12	4	235.00	240.00	1.52	1.00	36.36	0.000
	3	230.00	235.00	1.51	1.00	36.20	0.000
	2	225.00	230.00	1.50	1.00	36.03	0.000
	1	220.00	225.00	1.50	1.00	35.87	0.000
11	4	215.00	220.00	1.49	1.00	35.69	0.000
	3	210.00	215.00	1.48	1.00	35.52	0.000
	2	205.00	210.00	1.48	1.00	35.34	0.000
	1	200.00	205.00	1.47	1.00	35.16	0.000
10	2	190.00	200.00	1.46	1.00	34.88	0.000
	1	180.00	190.00	1.44	1.00	34.50	0.000
9	2	170.00	180.00	1.42	1.00	34.10	0.000
	1	160.00	170.00	1.41	1.00	33.68	0.000
8	2	150.00	160.00	1.39	1.00	33.24	0.000
	1	140.00	150.00	1.37	1.00	32.77	0.000
7	2	130.00	140.00	1.35	1.00	32.28	0.000
	1	120.00	130.00	1.33	1.00	31.77	0,000
6	2	110.00	120.00	1.30	1.00	31.21	0.000
	1	100.00	110.00	1.28	1.00	30.62	0.000
5	2	90.00	100.00	1.25	1.00	29.98	0.000
	1	80.00	90.00	1.22	1.00	29.29	0.000
4	1	60.00	80.00	1.17	1.00	28.12	0.000
3	1.	40.00	60.00	1.09	1.00	26.19	0.000
2	1	20.00	40.00	0.98	1.00	23.52	0.000
1	1	0.00	20.00	0.85	1.00	20.36	0.000

#### Calculated Effective Wind Areas

Sec.	Pan	. Flat	App.Flat	Round	App.Rou	and Area	Solid.	Flat Rou	nd Flat Rour	nd Eff.
		Area	Area	Area	Area	Ice	Ratio	Drag Drag	Dir Dir	Area
		(ft^2)	(ft^2)	(ft^2)	(ft^2)	(ft^2)				(ft^2)
13	2	3.33	0.00	1.67	0.00	0.00	0.24	2.47 1.4	0.80 1.00	8.98
	1	2.68	0.00	1.67	0.00	0.00	0.21	2.57 1.48	0.80 1.00	7.97
12	4	2.61	0.00	1.67	0.00	0.00	0.19	2.62 1.5	0.80 1.00	7.98
	3	2.71	0.00	1.67	0.00	0.00	0.18	2.67 1.5	0.80 1.00	8.34
	2	2.82	0.00	1.67	0.00	0.00	0.17	2.71 1.5	0.80 1.00	8.70
	1	2.93	0.00	1.67	0.00	0.00	0.16	2.75 1.5	0.80 1.00	9.06
11	4	3.05	0.00	1.88	0.00	0.00	0.15	2.76 1.5	7 0.80 1.00	9.69
	3	3.17	0.00	1.88	0.00	0.00	0.15	2.79 1.5	0.80 1.00	10.04
	2	3.29	0.00	1.88	0.00	0.00	0.14	2.81 1.5	0.80 1.00	10.40
	1	3.41	0.00	1.88	0.00	0.00	0.13	2.83 1.6	0.80 1.00	10.75
10	2	7.86	0.00	4.17	0.00	0.00	0.14	2.82 1.5	0.80 1.00	24.35
	1	8.30	0.00	4.17	0.00	0.00	0.13	2.85 1.6	0.80 1.00	25.68
9	2	8.90	0.00	4.59	000	0.00	0.13	2.86 1.6	0.80 1.00	27.82
	1	9.38	0.00	4.59	0.00	0.00	0.12	2.89 1.63	0.80 1.00	29.16
8	2	11.83	0.00	5.01	0.00	0.00	0.13	2.84 1.6	L 0.80 1.00	34.92





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6	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92 0.00	-0.90	-0.87	1.79	3.10	-6.14
7	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92 0.00	-0.90	-0.87	1.79	-3.10	6.14
8	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-30.28 0.00	-1.08	-0.87	-3.88	0.00	0.00
9	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92 0.00	-0.89	-0.87	1.94	3.36	-6.57
10	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92 0.00	-0.89	~0.87	1.94	-3,36	6.57

Load Combination

Wind Only - Max Tension

Wind Direction

0.00 (deg)

#### Wind Pressure

Section	Panel	Bot Elev (ft)	Top Elev (ft)	Кz	Kzt	Wind Pressure (psf)	Ice Thickness (tiz) (in)
13	2	245.00	250.00	1.53	1.00	36.68	0.000
	1	240.00	245.00	1.53	1.00	36.52	0.000
12	4	235.00	240.00	1.52	1.00	36.36	0.000
	3	230.00	235.00	1.51	1.00	36.20	0.000
	2	225.00	230.00	1.50	1.00	36.03	0.000
	1	220.00	225.00	1.50	1.00	35.87	0.000
11	4	215.00	220.00	1.49	1.00	35.69	0.000
	3	210.00	215.00	1.48	1.00	35.52	0.000
	2	205.00	210.00	1.48	1.00	35.34	0.000
	1	200.00	205.00	1.47	1.00	35.16	0.000
10	2	190.00	200.00	1.46	1.00	34.88	0.000
	l	180.00	190.00	1.44	1.00	34.50	0.000
9	2	170.00	180.00	1.42	1.00	34.10	0.000
	1	160.00	170.00	1.41	1.00	33.68	0.000
8	2	150.00	160.00	1.39	1.00	33.24	0.000
	1	140.00	150.00	1.37	1.00	32.77	0.000
7	2	130.00	140.00	1.35	1.00	32.28	0.000
	1	120.00	130.00	1.33	1.00	31.77	0.000
6	2	110.00	120.00	1.30	1.00	31.21	0.000
	1	100.00	110.00	1.28	1.00	30.62	0.000
5	2	90.00	100.00	1.25	1.00	29.98	0.000
	1	80.00	90.00	1.22	1.00	29.29	0.000
4	1	60.00	80.00	1.17	1.00	28.12	0.000
3	1	40.00	60.00	1.09	1.00	26.19	0.000
2	1	20.00	40.00	0.98	1.00	23.52	0.000
1	1	0.00	20.00	0.85	1.00	20.36	0.000

#### Calculated Effective Wind Areas

Sec.	Pan	Area	Area	Area	Area	und Area	Solid. Ratio	Flat Round Drag Drag	Flat Dir		Eff. Area
		(ft 2)	(ft^2)	(ft^2)	(ft^2)	(ft^2)					(ft^2)
13	2	3.33	0.00	1.67	0.00	0.00	0.24	2.47 1.44	0.80	1.00	8.98
	1	2.68	0.00	1.67	0.00	0.00	0.21	2.57 1.48	0.80	1.00	7.97
12	4	2.61	0.00	1.67	0.00	0.00	0.19	2.62 1.50	0.80	1.00	7.98
	3	2.71	0.00	1.67	0.00	0.00	0.18	2.67 1.52	0.80	1.00	8.34
	2	2.82	0.00	1.67	0.00	0.00	0.17	2.71 1.55	0.80	1.00	8.70
	1	2.93	0.00	1.67	0.00	0.00	0.16	2.75 1.56	0.80	1.00	9.06
11	4	3.05	0.00	1.88	0.00	0.00	0.15	2.76 1.57	0.80	1.00	9.69
	3	3.17	0.00	1.88	0.00	0 . 00	0.15	2.79 1.58	0.80	1.00	10.04



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Engineer: HD/tw

(ft^2) (ft^2)

1	Lightning Rod	1		250	0.00	-0.75 0.00	-0.03	-0,01	0.00/	0.00	0.00
2	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-30.28 0.00	-1.11	-0.87	-3.28	0.00	0.00
3	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92 0.00	-0.92	-0.87	1.64	2.84	-5.70
4	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92 0.00	-0.92	-0.87	1.64	-2.84	5.70
5	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-30.28 0.00	-1.10	-0.87	-3.58	0.00	0.00
6	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92 0.00	-0.90	-0.87	1.79	3.10	-6.14
7	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92 0.00	-0.90	-0.87	1.79	-3.10	6.14
8	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-30.28 0.00	-1.08	-0.87	-3.88	0.00	0.00
9	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92 0.00	-0.89	-0.87	1.94	3.36	-6.57
1.0	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92 0.00	-0.89	-0.87	1.94	-3.36	6.57

Load Combination

Wind and Ice

Wind Direction

0.00 (deg)

#### Wind Pressure

Section	n Panel	Bot Elev	Top Elev	Kz	Kzt	Wind Pressure	Ice Thickness
		(ft)	(ft)			(psf)	(tiz) (in)
13	2	245.00	250.00	1.53	1.00	2.55	1.836
	1	240.00	245.00	1.53	1.00	2.54	1.832
12	4	235.00	240.00	1.52	1.00	2.53	1.828
	3	230.00	235.00	1.51	1.00	2.51	1.824
	2	225.00	230.00	1.50	1.00	2.50	1.821
	1	220.00	225.00	1.50	1.00	2.49	1.816
11	4	215.00	220.00	1.49	1.00	2.48	1.812
	3	210.00	215.00	1.48	1.00	2.47	1.808
	2	205.00	210.00	1.48	1.00	2.45	1.804
	1	200.00	205.00	1.47	1.00	2.44	1.799
1.0	2	190.00	200.00	1.46	1.00	2.42	1.793
	1	180.00	190.00	1.44	1.00	2.40	1.783
9	2	170.00	180.00	1.42	1.00	2.37	1.773
	1	160.00	170.00	1.41	1.00	2.34	1.763
8	2	150.00	160.00	1.39	1.00	2.31	1.752
	1	140.00	150.00	1.37	1.00	2.28	1.740
7	2	130.00	140.00	1.35	1.00	2.24	1.728
	1	120.00	130.00	1.33	1.00	2.21	1.715
6	2	110.00	120.00	1.30	1.00	2.17	1.700
	1	100.00	110.00	1.28	1.00	2.13	1.685
5	2	90.00	100.00	1.25	1.00	2.08	1.668
	1	80.00	90.00	1.22	1.00	2.03	1.650
4	1	60.00	80.00	1.17	1.00	1.95	1.618
3	1	40.00	60.00	1.09	1.00	1.82	1.565
2							
	1	20.00	40.00	0.98	1.00	1.63	1.487

#### Calculated Effective Wind Areas

Sec.	Par	. Flat	App.Flat	Round	App.Rou	ınd Area	Solid.	Flat Round	Flat Round	Eff.
			Area (ft^2)				Ratio	Drag Drag	Dir Dir	Area (ft^2)
13	2	3.29	0.00	1.67	0.00	7.99	0.62	1.79 1.36	0.80 1.00	17.83





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Engineer: HD/tw

1 1 72.73 26.64 1.57 1.20 0.70 102.12

App. Concentrated Loads

Ant.	Description	Qty	Mount Desc.	Elev. (ft)	CaAc X-Dir E-W (ft^2)	CaAc Y-Dir N-S (ft^2)	XForce E-W (Kips)	YForce N-S (Kips)	ZForce (Kips)	M-x (kipsft)	M-y (kipsft)	M-z (kipsft)
1	Lightning Rod	1		250	0.00	-4.57	0.00	-0.01	-0.01	0.00	0.00	0.00
2	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-52.59	0.00	-0.13	-0.87	-3.28	0.00	0.00
3	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-49.07	0.00	-0.13	-0.87	1.64	2.84	-0.79
4	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-49.07	0.00	-0.13	-0.87	1.64	-2.84	0.79
5	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-52.45	0.00	-0.13	-0.87	-3.58	0.00	0.00
6	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-48.92	0.00	-0.12	-0.87	1.79	3.10	-0.85
7	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-48.92	0.00	-0.12	-0.87	1.79	-3.10	0.85
8	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-52.31	0.00	-0.13	-0.87	-3.88	0.00	0.00
9	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-48.76	0.00	-0.12	-0.87	1.94	3.36	-0.91
10	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-48.76	0.00	-0.12	-0.87	1.94	-3.36	0.91

Load Combination

Wind Only - Serviceability

Wind Direction

0.00 (deg)

Wind Pressure

Section	Panel	Bot Elev (ft)	Top Elev (ft)	Kz	Kzt	Wind Pressure (psf)	Ice Thickness (tiz) (in)
13	2	245.00	250.00	1.53	1.00	10.19	0.000
	1	240.00	245.00	1.53	1.00	10.14	0.000
12	4	235.00	240.00	1.52	1.00	10.10	0.000
	3	230.00	235.00	1.51	1.00	10.06	0.000
	2	225.00	230.00	1.50	1.00	10.01	0.000
	1	220.00	225.00	1.50	1.00	9.96	0.000
11	4	215.00	220.00	1.49	1.00	9.92	0.000
	3	210.00	215.00	1.48	1.00	9.87	0.000
	2	205.00	210.00	1.48	1.00	9.82	0.000
	1	200.00	205.00	1.47	1.00	9.77	0.000
10	2	190.00	200.00	1.46	1.00	9.69	0.000
	1	180.00	190.00	1.44	1.00	9.58	0.000
9	2	170.00	180.00	1.42	1.00	9.47	0.000
	1	160.00	170.00	1.41	1.00	9.35	0.000
8	2	150.00	160.00	1.39	1.00	9.23	0.000
	1	140.00	150.00	1.37	1.00	9.10	0.000
7	2	130.00	140.00	1.35	1.00	8.97	0.000
	1	120.00	130.00	1.33	1.00	8.82	0.000
6	2	110.00	120.00	1.30	1.00	8.67	0.000
	1	100.00	110.00	1.28	1.00	8.51	0.000
5	2	90.00	100.00	1.25	1.00	8.33	0.000
	1	80.00	90.00	1.22	1.00	8.14	0.000
4	1	60.00	80.00	1.17	1.00	7.81	0.000
3	1	40.00	60.00	1.09	1.00	7.28	0.000
2	1	20.00	40.00	0.98	1.00	6.53	0.000
1.	1	0.00	20.00	0.85	1.00	5.65	0.000



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Contract: S08-0471-A: J081119001-A Revision: 0

Project: 250-FT:SST:13-SECTIONS Site: 9LV0711 Jarvis Road- Muhlenburg C

Date and Time: 11/20/2008 11:10:37 AM Engineer: HD/tw

6	2	29.71 0.00	1.58	1.20	0.66	31.14
	1	29.71 0.00	1.58	1.20	0.66	31.14
5	2	29.71 0.00	1.58	1.20	0.66	31.14
	1	29.71 0.00	1.58	1.20	0.66	31.14
4	1	59.41 0.00	1.58	1.20	0.66	62.28
3	1	59.41 0.00	1.58	1.20	0.66	62.28
2	1	59.41 0.00	1.58	1.20	0.66	62.28
1	1	59.41 0.00	1.58	1.20	0.66	62.28

App. Concentrated Loads

Ant.	Description	Qty	Mount Desc.	Elev. (ft)	CaAc X-Dir E-W (ft^2)	CaAc Y-Dir N-S (ft^2)	XForce E-W (Kips)	YForce N-S (Kips)	ZForce (Kips)	M-x (kipsft)	M-Y (kipsft)	M-z (kipsft)
1	Lightning Rod	1		250	0.00	-0.75	0.00	-0.01	~0.01	0.00	0.00	0.00
2	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-30.28	0.00	-0.31	-0.87	-3.28	0.00	0.00
3	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92	0.00	-0.25	-0.87	1.64	2.84	-1.58
4	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92	0.00	-0.25	-0.87	1.64	-2.84	1.58
5	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-30.28	0.00	-0.31	-0.87	-3.58	0.00	0.00
6	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92	0.00	-0.25	-0.87	1.79	3.10	-1.71
7	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92	0.00	-0.25	-0.87	1.79	-3.10	1.71
8	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-30.28	0.00	-0.30	-0.87	-3.88	0.00	0.00
9	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92	0.00	-0.25	-0.87	1.94	3.36	-1.82
10	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92	0.00	-0.25	-0.87	1.94	-3.36	1.82



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Contract: S08-0471-A:J081119001-A

Project: 250-FT:SST:13-SECTIONS

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Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

33	140.0	8.8	8.7	-0.1	0.56	0.55	-0.01
30	130.0	7.6	7.5	-0.1	0.52	0.52	0.01
27	120.0	6.5	6.4	~0.1	0.46	0.46	-0.01
24	110.0	5.5	5.5	~0.1	0.43	0.42	0.01
21	100.0	4.6	4.6	~0.1	0.37	0.37	-0.01
18	90.0	3.9	3.8	~0.1	0.34	0.34	0.01
15	80.0	3.1	3.1	-0.1	0.31	0.30	-0.01
12	60.0	1.9	1.8	0.0	0.21	0.21	0.03
9	40.0	1.0	0.9	0.0	0.16	0.15	-0.01
6	20.0	0.3	-0.3	0.0	0.07	-0.07	0.03
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

Load Combination

Wind Only - Max Tension

Wind Direction

#### Maximum displacements

Node	Elev.	N-S Disp	W-E Disp	Vert.Disp	N-S Rot	W-E Rot	Twist
	(ft)	(in)	(in)	(in)	(Deg)	(Deg)	(Deg)
81	250.0	29.1	29.0	-0.1	1.12	1.13	0.03
78	245.0	27.9	27.8	-0.1	1.12	1.13	0.03
75	240.0	26.7	26.7	-0.1	1.10	1.11	-0.03
72	235.0	25.6	25.5	-0.1	1.10	1.10	0.03
69	230.0	24.4	24.3	-0.1	1.08	1.08	-0.03
66	225.0	23.3	23.2	-0.1	1.04	1.05	0.03
63	220.0	22.2	22.1	-0.1	1.03	1.03	-0.02
60	215.0	21.1	21.0	-0.1	1.00	1.00	0.02
57	210.0	20.1	20.0	-0.1	0.97	0.97	-0.02
54	205.0	19.1	19.0	-0.1	0.94	0.94	0.02
51	200.0	18.1	18.0	-0.1	0.89	0.89	-0.02
48	190.0	16.2	16.1	-0.1	0.82	0.82	0.03
45	180.0	14.5	14.4	-0.1	0.77	0.77	-0.02
42	170.0	12.9	12.8	-0.1	0.71	0.71	0.02
39	160.0	11.4	1.1.3	-0.1	0.65	0.65	-0.01
36	150.0	10.0	9.9	-0.1	0.60	0.60	0.01
33	140.0	8.8	8.7	-0.1	0.56	0.55	-0.01
30	130.0	7.6	7.5	-0.1	0.52	0.52	0.01
27	120.0	6.5	6.4	-0.1	0.46	0.46	-0.01
24	110.0	5.5	5.5	-0.1	0.43	0.42	0.01
21	100.0	4.6	4.6	-0.1	0.37	0.37	-0.01
18	90.0	3.9	3.8	0.0	0.34	0.34	0.01
15	80.0	3.1	3.1	0.0	0.31	0.30	-0.01
12	60.0	1.9	1.8	0.0	0.21	0.21	0.03
9	40.0	1.0	0.9	0.0	0.16	0.15	-0.01
6	20.0	0.3	-0.3	0.0	0.07	-0.07	0.03
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Load	Combina	tion	W	ind and Ice			

Load Combination

Wind and Ice

Wind Direction

Maximum displacements

Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert.Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
81	250.0	3.6	3.6	-0.4	0.14	0.14	0.00
78	245.0	3.5	3.4	-0.4	0.14	0.14	0.00
75	240.0	3.3	3.3	-0.4	0.14	0.14	0.00
72	235.0	3.2	3.1	-0.4	0.14	0.14	0.00



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Project: 250-FT:SST:13-SECTIONS

Date and Time: 11/20/2008 11:10:37 AM

Revision: 0

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

3 0.0 0.0 0.0 0.0 0.00 0.00 0.00



13 2 245.00 Leg

12 3 230.00 Leg

240.00

235.00

Leq

Leg

1

12 4 SR 2

SR 2

SR 2

SR 2

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Contract: S08-0471-A: J081119001-A

Project: 250-FT:SST:13-SECTIONS Site: 9LV0711 Jarvis Road- Muhlenburg C Date and Time: 11/20/2008 11:10:37 AM Engineer: HD/tw 2L2 1/2x2 1/2x3/16 29.01 182.9 12.2 4 1 60.00 Diag 43.2 11.9 11.8 0.98 30.48 155.8 20.3 45.7 3 1 40.00 213x3x3/16 12.4 12.3 0.61 Diag 2 20.00 Diag 2L3x3x3/16 32.02 161.5 18.9 45.7 12.9 12.8 0.68 1 1 0.00 Diag 2L3x3x3/16 33.61 167.4 17.6 45.7 13.2 13.2 0.75 4.00 13 2 245.00 Horiz L2x2x3/16 113.8 11.6 8.3 0.7 0.7 0.08 10 2 190.00 SecH1 L2x2x3/16 4.26 131.1 9.3 8.3 2.2 2.2 0.26 1 180.00 4.76 146.4 7.5 10 SecH1 L2x2x3/16 8.3 2.6 2.6 0.35 161.7 6.1 9 2 170.00 SecH1 L2x2x3/16 5.26 8.3 2.8 2.8 0.45 9 1 160.00 SecH1 L2x2x3/16 5.75 177.0 5.1 8.3 0.61 3.1 3.1 8 2 150.00 SecH1 L2 1/2x2 1/2x3/16 6.25 153.1 8.7 10.9 3.3 0.38 3.3 8 1 140.00 SecH1 L2 1/2x2 1/2x3/16 6.75 165.4 7.4 10.9 3.6 3.6 0.48 7 2 130.00 SecH1 L2 1/2x2 1/2x3/16 7.25 177.6 6.4 10.9 3.7 3.7 0.57 7 1 120.00 SecH1 L2 1/2x2 1/2x3/16 7.75 189.8 5.6 10.9 4.0 4.0 0.71 2 110.00 SecH1 8.25 167.8 8.7 6 L3x3x3/16 11.1 4.3 4.3 0.49 100.00 SecH1 L3x3x3/16 8.75 178.0 7.8 11.1 6 1 4.6 4.6 0.60 2 90.00 188.2 7.0 5 9.25 SecH1 L3x3x3/1611.1 4.7 4.7 0.68 1 80.00 SecH1 L3x3x3/16 9.75 198.3 6.3 11.1 5.0 5.0 0.80 4 1 60.00 SecH1 L3x3x1/410.51 213.8 7.1 14.8 5.4 5.4 0.76 60.00 5.26 161.7 6.1 4 1 SecH2 L2x2x3/16 8.3 5.4 0.88 5.4 60.00 SecH3 5.26 161.7 6.1 4 1 L2x2x3/16 8.3 5.4 5.4 0.88 6,91 1 60.00 L2 1/2x2 1/2x3/16 169.1 7.1 10.9 4 SecD1 3.7 3.7 0.52 1 60.00 SecD2 L2 1/2x2 1/2x3/16 7.60 186.0 5.9 10.9 3.7 3.7 0.63 4 1 60.00 PlanH1 L3x3x3/16 10.48 213.1 5.4 9.8 0.1 0.1 0.01 3 1 40.00 SecH1 L3 1/2x3 1/2x1/4 11.51 200.1 9.5 14.8 5.7 5.7 0.60 L2 1/2x2 1/2x3/16 40.00 SecH2 5.75 140.9 10.2 10.9 3 1 5.7 5.7 0.56 1 40.00 SecH3 L2 1/2x2 1/2x3/16 5.75 140.9 10.2 10.9 5.7 3 5.7 0.56 3 1 40.00 SecD1 L2 1/2x2 1/2x3/16 7.29 178.5 6.4 10.9 3.8 3.8 0.60 3 1 40.00 SecD2 L2 1/2x2 1/2x3/16 7.95 194.8 5.4 10.9 3.8 3.8 0.71 1 40.00 PlanHl 233.5 4.5 L3x3x3/16 11.48 9.8 0.1 3 0.1 0.02 20.00 SecH1 L3 1/2x3 1/2x1/4 12.51 217.5 8.1 2 1 14.8 6.3 6.3 0.78 L2 1/2x2 1/2x3/16 2 1 20.00 SecH2 6.25 153.1 8.7 10.9 6.3 6.3 0.73 2 1 20.00 SecH3 L2 1/2x2 1/2x3/16 6.25 153.1 8.7 10.9 6.3 0.73 6.3 2 1 20.00 SecD1 L2 1/2x2 1/2x3/16 7.68 188.2 5.7 10.9 4.1 4.1 0.71 L2 1/2x2 1/2x3/16 2 1 20.00 SecD2 8.33 203.9 4.9 10.9 4.1 0.83 4.1 L3 1/2x3 1/2x1/4 2 1 20.00 PlanH1 12.48 217.0 8.1 13.1 0.1 0.1 0.01 L4x4x1/4 1 0.00 13.51 202.6 10.7 1 SecH1 14.8 6.6 6.6 0.62 1 0.00 SecH2 L2 1/2x2 1/2x3/16 6.75 165.4 7.4 10.9 6.6 6.6 0.89 1 1 0.00 SecH3 L2 1/2x2 1/2x3/16 6.75 165.4 7.4 10.9 1 6.6 6.6 0.89 1 0.00 SecD1 L3x3x3/16 8.09 164.5 9.1 11.1 1 4.1 4.1 0.45 1. 0.00 SecD2 L3x3x3/16 8.71 177.2 7.8 11.1 4.1 0.53 1 4.1 13.48 234.5 6.9 1 1 0.00 PlanH1 L3 1/2x3 1/2x1/4 13.1 0.1 0.1 0.01 Load Combination Wind Only Wind Direction Maximum Sec Pnl Elev Desc. kl/r Gov. MType Len Gov. Max Max Asses. comp. tens. Compr. Tens. Ratio cap. cap. (ft) (ft) (Kips) (Kips) (Kips) (Kips)

120.0 49.3

120.0 49.3

120.2 49.1

120.2 49.1

82.3

82.3

82.3

82.3

3.5

8.9

14.2

21.9

7 . 1

6.3

11.3

16.2

0.07

0.18

0.29

0.45

5.00

5.00

5.01

5.01



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Project: 250-FT:SST:13-SECTIONS

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			,							
7	2	130.00	SecH1	L2 1/2x2 1/2x3/16	7.25	177.6 6.4	10.9	3.7	3.7	0.57
7	1	120.00	SecH1	L2 1/2x2 1/2x3/16	7.75	189.8 5.6	10.9	4.0	4.0	0.71
6	2	110.00	SecH1	L3x3x3/16	8.25	167.8 8.7	11.1	4.3	4.3	0.49
6	1	100.00	SecH1	L3x3x3/16	8.75	178.0 7.8	11.1	4.6	4.6	0.60
5	2	90.00	SecH1	L3x3x3/16	9.25	188.2 7.0	11.1	4.7	4.7	0.68
5	1	80.00	SecH1	L3x3x3/16	9.75	198.3 6.3	11.1	5 . 0	5.0	0.80
4	1	60.00	SecH1	L3x3x1/4	10.51	213.8 7.1	14.8	5.4	5.4	0.76
4	1	60.00	SecH2	L2x2x3/16	5.26	161.7 6.1	8.3	5.4	5.4	0.88
4	1	60.00	SecH3	L2x2x3/16	5.26	161.7 6.1	8.3	5.4	5.4	0.88
4	1	60.00	SecD1	L2 1/2x2 1/2x3/16	6.91	169.1 7.1	10.9	3.7	3.7	0.52
4	1	60.00	SecD2	L2 1/2x2 1/2x3/16	7.60	186.0 5.9	10.9	3.7	3.7	0.63
4	1	60.00	PlanH1	L3x3x3/16	10.48	213.1 5.4	9.8	0.1	0.1	0.01
3	1	40.00	SecH1	L3 $1/2x3 1/2x1/4$	11.51	200.1 9.5	14.8	5.7	5.7	0.60
3	1	40.00	SecH2	L2 1/2x2 1/2x3/16	5.75	140.9 10.2	10.9	5.7	5.7	0.56
3	1	40.00	SecH3	L2 1/2x2 1/2x3/16	5.75	140.9 10.2	10.9	5.7	5.7	0.56
3	1	40.00	SecD1	L2 1/2x2 1/2x3/16	7.29	178.5 6.4	10.9	3.8	3.8	0.60
3	1	40.00	SecD2	L2 1/2x2 1/2x3/16	7.95	194.8 5.4	10.9	3.8	3.8	0.71
3	1	40.00	PlanH1	L3x3x3/16	11.48	233.5 4.5	9.8	0.1	0.1	0.02
2	1	20.00	SecH1	L3 $1/2x3 1/2x1/4$	12.51	217.5 8.1	14.8	6.3	6.3	0.78
2	1	20.00	SecH2	L2 1/2x2 1/2x3/16	6.25	153.1 8.7	10.9	6.3	6.3	0.73
2	1	20.00	SecH3	L2 1/2x2 1/2x3/16	6.25	153.1 8.7	10.9	6.3	6.3	0.73
2	1	20.00	SecD1	L2 1/2x2 1/2x3/16	7.68	188.2 5.7	10.9	4.1	4.1	0.71
2	1	20.00	SecD2	L2 1/2x2 1/2x3/16	8.33	203.9 4.9	10.9	4.1	4.1	0.83
2	1	20.00	PlanHl	L3 $1/2x3 1/2x1/4$	12.48	217.0 8.1	13.1	0.1	0.1	0.01
1	1	0.00	SecH1	L4x4x1/4	13.51	202.6 10.7	14.8	6.6	6.6	0.62
1	1	0.00	SecH2	L2 1/2x2 1/2x3/16	6.75	165.4 7.4	10.9	6.6	6.6	0.89
1	1	0.00	SecH3	L2 1/2x2 1/2x3/16	6.75	165.4 7.4	10.9	6.6	6.6	0.89
1	1	0.00	SecD1	L3x3x3/16	8.09	164.5 9.1	11.1	4.1	4.1	0.45
1	1	0.00	SecD2	L3x3x3/16	8.71	177.2 7.8	11.1	4.1	4.1	0.53
1	1	0.00	PlanHl	L3 1/2x3 1/2x1/4	13.48	234.5 6.9	13.1	0.1	0.1	0.01

Load Combination Wind Only - Max Tension Wind Direction Maximum

Sec	Pnl	Elev	МТуре	Desc.	Len	kl/r	Gov.	Gov. tens.	Max Compr.	Max Tens.	Asses. Ratio
		(ft)			(ft)		cap. (Kips)	cap. (Kips)	(Kips)	(Kips)	
13	2	245.00	Leg	SR 2	5.00	120.0	49.3	82.3	3 . 2	1.4	0.06
13	1	240.00	Leg	SR 2	5.00	120.0	49.3	82.3	8.6	6.7	0.18
12	4	235.00	Leg	SR 2	5.01	120.2	49.1	82.3	13.9	11.6	0.28
12	3	230.00	Leg	SR 2	5.01	120.2	49.1	82.3	21.2	16.8	0.43
12	2	225.00	Leg	SR 2	5.01	120.2	49.1	82.3	30.0	25.1	0.61
12	1.	220.00	Leg	SR 2	5.01	120.2	49.1	82.3	36.9	31.6	0.75
11	4	215.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	46.2	38.8	0.59
11	3	210.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	56.0	47.9	0.72
11	2	205.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	64.6	55.9	0.83
11	1	200.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	73.6	64.2	0.95
10	2	190.00	Leg	SR 2 1/2	10.02	101.8	103.6	182.5	85.4	75.1	0.82
10	1	180.00	Leg	SR 2 1/2	10.02	101.2	104.5	182.5	102.0	90.0	0.98
9	2	170.00	Leg	SR 2 3/4	10.02	91.6	144.7	182.5	117.3	103.9	0.81
9	1	160.00	Leg	SR 2 3/4	10.02	91.3	145.4	182.5	133.0	117.8	0.91
8	2	150.00	Leg	SR 3	10.02	83.4	191.5	251.8	148.0	131.1	0.77
8	1	140.00	Leg	SR 3	10.02	83.0	192.2	251.8	163.5	144.5	0.85
7	2	130.00	Leg	SR 3 1/4	10.02	76.5	243.5	330.3	178.7	157.7	0.73



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File	e: 1	L:\Desig	gns\08-040	0\0471\J081119001-	A\J081	119001	A.out				
Cont	rac	ct: S08	~0471-А: J0	81119001-A				Revision:			
Proj	jec	t: 250-1	FT:SST:13-	SECTIONS				Site: 9LV	0711 Ja	rvis Roa	d- Muhlenburg C
Date	a a ı	nd Time	: 11/20/20	08 11:10:37 AM			•	Engineer:	HD/tw		
3	1.	40.00	SecH2	L2 1/2x2 1/2x3/16	5.75	140.9	10.2	10.9	5.7	5.7	0.55
3	1	40.00	SecH3	L2 1/2x2 1/2x3/16	5.75	140.9	10.2	10.9	5.7	5.7	0.55
3	1	40.00	SecD1	L2 1/2x2 1/2x3/16	7.29	178.5	6.4	10.9	3.7	3.7	0.59
3	1	40.00	SecD2	L2 1/2x2 1/2x3/16	7.95	194.8	5.4	10.9	3.7	3.7	0.70
3	1	40.00	PlanH1	L3x3x3/16	11.48	233.5	4.5	9.8	0.1	0.1	0.02
2	1	20.00	SecH1	L3 1/2x3 1/2x1/4	12.51	217.5	8.1	14.8	6.2	6.2	0.77
2	1	20.00	SecH2	L2 1/2x2 1/2x3/16	6.25	153.1		10.9	6.2	6.2	0.72
2	1	20.00	SecH3	L2 1/2x2 1/2x3/16	6.25	153.1		10.9	6.2	6.2	0.72
2	1	20.00	SecD1	L2 1/2x2 1/2x3/16	7.68	188.2		10.9	4.0	4.0	0.70
2	1	20.00	SecD2	L2 1/2x2 1/2x3/16	8.33	203.9		10.9	4.0	4.0	0.82
2	1.	20.00	PlanH1	L3 1/2x3 1/2x1/4	12.48	217.0		13.1	0.1	0.1	0.01
1	1	0.00	SecH1	L4x4x1/4	13.51	202.6		14.8	6.5	6.5	0.61
1	1	0.00	SecH2	L2 1/2x2 1/2x3/16	6.75	165.4		10.9	6.5	6.5	0.88
1	1	0.00	SecH3	L2 1/2x2 1/2x3/16	6.75	165.4		10.9	6.5	6.5	0.88
1	1	0.00	SecD1	L3x3x3/16	8.09	164.5		11.1	4.1	4.1	0.45
1	1	0.00	SecD2	L3x3x3/16	8.71	177.2		11.1	4.1	4.1	0.52
1	1	0.00	PlanH1	L3 1/2x3 1/2x1/4	13.48	234.5		13.1	0.1	0.1	0.01
~	_	0.00	Lacina	13 1, 1, 1, 1, 1, 1, 1	14.10	231.3	0.5		·	0.1	0.01
		mbinatio rection	n	Wind and Ice Maximum							
Coa	Dr. 7	Elev	MType	Desc.	Len	kl/r	Gov.	Gov.	Max	Max	Asses.
360	FILL	FIEV	Miybe	Desc.	nen	KI/I					
							comp.	tens.	Compr.	Tens.	Ratio
		(5. )			(5)		cap.	cap.	/ ** · · · ·	/**!	
		(ft)			(ft)		(Kips)	(Kips)	(Kips)	(Kips)	
	2	245 00	T	an a	5.00	100.0	40.3	00.7	3.5	0.0	0.07
13	2	245.00	Leg	SR 2		120.0		82.3			0.07
13	1	240.00	Leg	SR 2	5.00	120.0		82.3	4.7	0.0	0.10
12	4	235.00	_	SR 2	5.01	120.2		82.3	5.9	0.0	0.12
12	3	230.00	Leg	SR 2	5.01	120.2		82.3	10.2	0.0	0.21
12	2	225.00		SR 2	5.01	120.2		82.3	12.1	0.0	0.25
12	1	220.00	-	SR 2	5.01	120.2		82.3	13.7	0.0	0.28
11	4	215.00	<del></del>	SR 2 1/4	5.01	106.8		123.5	18.3	0.0	0.23
11	3	210.00	Leg	SR 2 1/4	5.01	106.8		123.5	20.7	0.0	0.27
1.1	2	205.00	_	SR 2 1/4	5.01	106.8		123.5	22.6	0.0	0.29
11	1	200.00	•	SR 2 1/4	5.01	106.8		1.23.5	24.9	0.0	0.32
10	2	190.00		SR 2 1/2	10.02		103.6	182.5	27.6	0.0	0.27
10		180.00	_	SR 2 1/2	10.02		104.5	182.5	32.0	0.0	0.31
9	2	170.00	Leg	SR 2 3/4	10.02		144.7	182.5	35.9	0.0	0.25
9	1	160.00	-	SR 2 3/4		91.3		182.5	40.2	0.0	0.28
8	2	150.00		SR 3			191.5		44.1	0.0	0.23
8	1		_	SR 3		83.0		251.8	48.5	0.0	0.25
7	2	130.00	_	SR 3 1/4			243.5	330.3	52.7	0.0	0.22
7	1	120.00	Leg	SR 3 1/4	10.02	76.4	243.8	330.3	57.1	0.0	0.23
6	2	110.00	Leg	SR 3 1/4	10.02	76.2	244.2	330.3	61.5	0.0	0.25
6	1	100.00	Leg	SR 3 1/4		76.1		330.3	66.1	0.0	0.27
5	2	90.00	Leg	SR 3 1/2	10.02	70.5	301.2	330.3	70.6	0.0	0.23
5	1	80.00	Leg	SR 3 1/2	10.02	70.5	301.2	330.3	75.4	0.0	0.25
4	1	60.00	Leg	SR 3 1/2	20.03	68.7	306.8	330.3	82.3	0.0	0.27
3	1	40.00	Leg	SR 3 3/4	20.03	64.1	368.4	416.3	92.0	0.0	0.25
2	1	20.00	Leg	SR 3 3/4	20.03	64.1	368.4	416.3	101.7	0.0	0.28
1	1	0.00	Leg	SR 4	20.03	60.1	434.5	528.0	111.4	0.0	0.26
			=								
13	2	245.00	Diag	L1 3/4x1 3/4x3/16	6.40	100.2	11.8	17.9	0.2	0.3	0.02
13	1	240.00	_	L1 3/4x1 3/4x3/16	6.40	100.2		17.9	0.3	0.2	0.03
12	4	235.00	_	L1 3/4x1 3/4x3/16	6.56	139.3		17.9	0.4	0.1	0.05 *
	-										- <del></del>



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Contract: S08-0471-A:J081119001-A Revision: 0

Project: 250-FT:SST:13-SECTIONS Site: 9LV0711 Jarvis Road- Muhlenburg C

Date and Time: 11/20/2008 11:10:37 AM Engineer: HD/tw

1	1	0.00	SecH3	L2 1/2x2 1/2x3/16	6.75	165.4 7.4	10.9	1.9	1.9	0.26
1	1	0.00	SecD1	L3x3x3/16	8.09	164.5 9.1	11.1	1.2	1.2	0.13
1	1	0.00	SecD2	L3x3x3/16	8.71	177.2 7.8	11.1	1.2	1.2 /	0.15
1	1	0.00	PlanH1	L3 1/2x3 1/2x1/4	13.48	234.5 6.9	13.1	0.0	0.0	0.00

Note: The asterisk (*) placed after the assessment ratio marks cases where the diagonal's capacity in X-braced panel without support in crossover point is governing due to Tension/Compression ratio below limit.

The slenderness is calculated as per: ANSI/TIA-222-G, Table 4-6

Load Combination Wind Only - Serviceability Wind Direction Maximum

Sec	Pnl	Elev	МТуре	Desc.	Len	kl/r	Gov. comp. cap.	Gov. tens.	Max Compr.	Max Tens.	Asses. Ratio
		(ft)			(ft)		(Kips)	(Kips)	(Kips)	(Kips)	
13	2	245.00	Leg	SR 2	5.00	120.0	49.3	82.3	1.6	0.0	0.03
13	1	240.00	Leg	SR 2	5.00	120.0	49.3	82.3	3.2	1.1	0.06
12	4	235.00	Leg	SR 2	5.01	120.2	49.1	82.3	4.7	2.4	0.10
12	3	230.00	Leg	SR 2	5.01	120.2	49.1	82.3	7.5	3.0	0.15
12	2	225.00	Leg	SR 2	5.01	120.2	49.1	82.3	10.1	5.2	0.21
12	1	220.00	Leg	SR 2	5.01	120.2	49.1	82.3	12.1	6.9	0.25
1.1	4	215.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	15.5	8.1	0.20
11	3	210.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	18.4	10.4	0.24
11	2	205.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	20.9	12.6	0.27
11	1.	200.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	23.6	14.7	0.30
10	2	190.00	Leg	SR 2 1/2	10.02	101.8	103.6	182.5	27.1	17.5	0.26
10	1	180.00	Leg	SR 2 1/2	10.02	101.2	104.5	182.5	32.1	21.3	0.31
9	2	170.00	Leg	SR 2 3/4	10.02	91.6	144.7	182.5	36.7	24.8	0.25
9	1	160.00	Leg	SR 2 3/4	10.02	91.3	145.4	182.5	41.4	28.2	0.29
8	2	150.00	Leg	SR 3	10.02	83.4	191.5	251.8	46.0	31.5	0.24
8	1	140.00	Leg	SR 3	10.02	83.0	192.2	251.8	50.8	34.8	0.26
7	2	130.00	Leg	SR 3 1/4	10.02	76.5	243.5	330.3	55.5	38.0	0.23
7	1	120.00	Leg	SR 3 1/4	10.02	76.4	243.8	330.3	60.3	41.2	0.25
6	2	110.00	Leg	SR 3 1/4	10.02	76.2	244.2	330.3	65.1	44.3	0.27
6	1	100.00	Leg	SR 3 1/4	10.02	76.1	244.7	330.3	70.1	47.4	0.29
5	2	90.00	Leg	SR 3 1/2	10.02	70.5	301.2	330.3	75.1	50.5	0.25
5	1	80.00	Leg	SR 3 1/2	10.02	70.5	301.2	330.3	80.2	53.6	0.27
4	1	60.00	Leg	SR 3 1/2	20.03	68.7	306.8	330.3	87.8	58.1	0.29
3	1	40.00	Leg	SR 3 3/4	20.03	64.1	368.4	416.3	98.2	64.0	0.27
2	1	20.00	Leg	SR 3 3/4	20.03	64.1	368.4	416.3	108.7	69.7	0.30
1	1	0.00	Leg	SR 4	20.03	60.1	434.5	528.0	119.3	75.1	0.27
13	2	245.00	Diam	L1 3/4x1 3/4x3/16	6.40	100.2	11 0	17.9	0.5	0.5	0.04
13	1.	245.00	Diag Diag	L1 3/4x1 3/4x3/16	6.40	100.2		17.9	0.6	0.5	0.04
12	1. 4		-	L1 3/4x1 3/4x3/16	6.56	100.2		17.9	0.6	0.5	0.05
		235.00	Diag	L1 3/4x1 3/4x3/16		112.0		17.9			0.05
12	3	230.00	Diag		6.90				1.0	0.9	
12	2	225.00	Diag	L1 3/4x1 3/4x3/16	7.25	117.0		17.9	0.9	0.9	0.09
12	1.	220.00	Diag	L1 3/4x1 3/4x3/16	7.62	122.2		17.9	0.9	0.9	0.10
11	4	215.00	Diag	L1 3/4x1 3/4x3/16	8.01	127.2		17.9	1.2	1.2	0.14
11	3	210.00	Diag	L1 3/4x1 3/4x3/16	8.40	132.7		17.9	1.2	1.2	0.15
11	2	205.00	Diag	L1 3/4x1 3/4x3/16	8.81	138.3		17.9	1.2	1.1	0.17
11	1	200.00	Diag	L1 3/4x1 3/4x3/16	9.22	144.1		17.9	1.2	1.2	0.17
10	2	190.00	Diag	L2 1/2x2 1/2x3/16	13.13	146.3	9.5	21.6	1.7	1.6	0.17



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Contract: S08-0471-A:J081119001-A Revision: 0

Project: 250-FT:SST:13-SECTIONS Site: 9LV0711 Jarvis Road- Muhlenburg C

Date and Time: 11/20/2008 11:10:37 AM Engineer: HD/tw

#### Section M: SECTION PROPERTIES DATA

Sec	Pan	Memb. Type	Steel Grade	Conn. Type	Bolts	Bolt Size (in)	Bolt End Grade Dist. (in)	Gusset Thick. (in)	kl/r Com Cap (Kips	. Cap.	, Bolt Cap. (Kips)	Cap.	Block Shear (Kips)
1,3	2	Leg	A572 gr.50	Tension	ı 4	0.625	A325X 0.938	N/A	120.0 49.3	3 141.5	82.3T	N/A	N/A
13	2	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	100.2 11.		19.45	20.6	19.1
13	2	Horiz	A36	Bolted	1	0.625	A325X 1.250	0.250	113.8 11.		15.2S	11.1	8.3
13	1	Leg	A572 gr.50			0.625	A325X 0.938	N/A	120.0 49.3		82.3T	N/A	N/A
13	1	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	100.2 11.		19.45	20.6	19.1
12	4	Leg	A572 gr.50	Tension	1 4	0.625	A325X 0.938	N/A	120.2 49.	141.5	82.3T	N/A	N/A
12	4	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	107.2 11.	0 17.9	19.45	20.6	19.1
12	3	Leg	A572 gr.50	Tension	ı 4	0.625	A325X 0.938	N/A	120.2 49.	1 141.5	82.3T	N/A	N/A
12	3	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	112.0 10.	4 17.9	19.45	20.6	19.1
12	2	Leg	A572 gr.50	Tensior	1 4	0.625	A325X 0.938	N/A	120.2 49.	1 141.5	82.3T	N/A	N/A
12	2	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	117.0 9.8	17.9	19.48	20.6	19.1
12	1	Leg	A572 gr.50	Tensior	1 4	0.625	A325X 0.938	N/A	120.2 49.	1 141.5	82.3T	N/A	N/A
12	1	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	122.2 9.1	17.9	19.4S	20.6	19.1
11	4	Leg	A572 gr.50	Tension	ı 6	0.625	A325X 0.938	N/A	106.8 77,	8 179.0	123.5T	N/A	N/A
11	4	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	127.2 8.6	17.9	19.45	20.6	19.1
11	3	Leg	A572 gr.50	Tension	16	0.625	A325X 0.938	N/A	106.8 77.	8 179.0	123.5T	N/A	N/A
11	3	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	132.7 7.9	17.9	19.4S	20.6	19.1
11	2	Leg	A572 gr.50	Tension	16	0.625	A325X 0.938	N/A	106.8 77.	8 179.0	123.5T	N/A	N/A
11	2	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	138.3 7.3	17.9	19.4S	20.6	19.1
11	1	Leg	A572 gr.50	Tension	16	0.625	A325X 0.938	N/A	106.8 77.	8 179.0	123.5T	N/A	N/A
11	1	Diag	A36	Bolted	2	0.500	A325X 1.125	0.250	144.1 6.7	17.9	19.45	20.6	19.1
10	2	Leq	A572 gr.50	Tension	1 6	0.750	A325X 1.125	N/A	101.8 103	.6 221.1	182.5T	N/A	N/A
10	2	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	146.3 9.5	26.5	30.4S	24.2	21.6
10	2	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	131.1 9.3	20.3	15.2S	11.1	8.3
10	1	Leg	A572 gr.50		ı 6	0.750	A325X 1.125	N/A	101.2 104		182.5T		N/A
10	1	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	152.7 8.7		30.45	24.2	21.6
10	1	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	146.4 7.5	20.3	15.25	11.1	8.3
9	2	Leg	A572 gr.50	Tension	ı 6	0.750	A325X 1.125	N/A	91.6 144	.7 267.5	182.5T	N/A	N/A
9	2	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	159.2 8.0	26.5	30.4S	24.2	21.6
9	2	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	161.7 6.1	20.3	15.2S	11.1	8.3
9	1	Leg	A572 gr.50	Tension	ı 6	0.750	A325X 1.125	N/A	91.3 145		182.5T		N/A
9	1	Diag	A36	Bolted	2	0.625	A325X 1,250	0.250	166.2 7.4	26.5	30,4S	24.2	21.6
9	1	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	177.0 5.1	20.3	15.25	11.1	8.3
8	2	Leg	A572 gr.50	Tension	ı 6	0.875	A325X 1.313	N/A	83.4 191	.5 318.4	251.8T	N/A	N/A
8	2	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	148.4 11.	2 32.8	30.48	24.2	22.8
8	2	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	153.1 8.7	26.5	15.28	11.1	10.9
8	1	Leg	A572 gr.50	Tension	ı 6	0.875	A325X 1.313	N/A	83.0 192	.2 318.4	251.8T	N/A	N/A
8	1	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	154.7 10.	3 32.8	30.4S	24.2	22.8
8	1	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	165.4 7.4	26.5	15.28	11.1	10.9
7	2	Leg	A572 gr.50	Tension	ı 6	1.000	A325X 1.500	N/A	76.5 243	.5 373.6	330.3T	N/A	N/A
7	2	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	160.9 9.5	32.8	30.4S	24.2	22.8
7	2	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	177.6 6.4	26.5	15.2S	11.1	10.9
7	1	Leg	A572 gr.50	Tension	ı 6	1.000	A325X 1.500	N/A	76.4 243	.8 373.6	330.3T	N/A	N/A
7	1	Diag	A36	Bolted	2	0.625	A325X 1.250	0.250	167.4 8.8	32.8	30.4S	24.2	22.8
7	1	SecH1	A36	Bolted	1	0.625	A325X 1.250	0.250	189.8 5.6	26.5	15.2S	11.1	10.9



TSTower - v 3.8.1 Tower Analysis Program (c) 1997-2006 TowerSoft www.TSTower.com

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Contract: S08-0471-A:J081119001-A

Project: 250-FT:SST:13-SECTIONS

Date and Time: 11/20/2008 11:10:37 AM

Revision: 0

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

Section N: LEG REACTION DATA

Load Combination Wind Direction

Max Envelope

Maximum

Force-Y Force-Y

Shear-Z

Shear-X (Kips)

Download Uplift (Kips) (Kips)

(Kips)

(Kips)

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Max Shear

Load Combination

Wind Direction

Wind Only

Maximum

Support Force-Y Force-Y Download Uplift

Shear-X Shear-Z Max Shear

(Kips) (Kips) (Kips)

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Load Combination

Wind Only - Max Tension

(Kips)

Wind Direction

Maximum

Support Force-Y Force-Y

Shear-X Shear-Z Max Shear

Download Uplift (Kips) (Kips)

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Load Combination

Wind Direction

Wind and Ice Maximum

Support Force-Y Download Shear-X

Max Shear

(Kips)

Force-Y Uplift (Kips)

Shear-Z (Kips) (Kips)

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Load Combination Wind Direction

Support Force-Y

Maximum

(Kips)

(Kips)

Wind Only - Serviceability

(Kips)

Download Uplift (Kips)

Force-Y (Kips)

Shear-X Shear-Z Max Shear (Kips)

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TSTower - v 3.8.1 Tower Analysis Program (c) 1997-2006 TowerSoft www.TSTower.com

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Contract: S08-0471-A:J081119001-A
Project: 250-FT:SST:13-SECTIONS

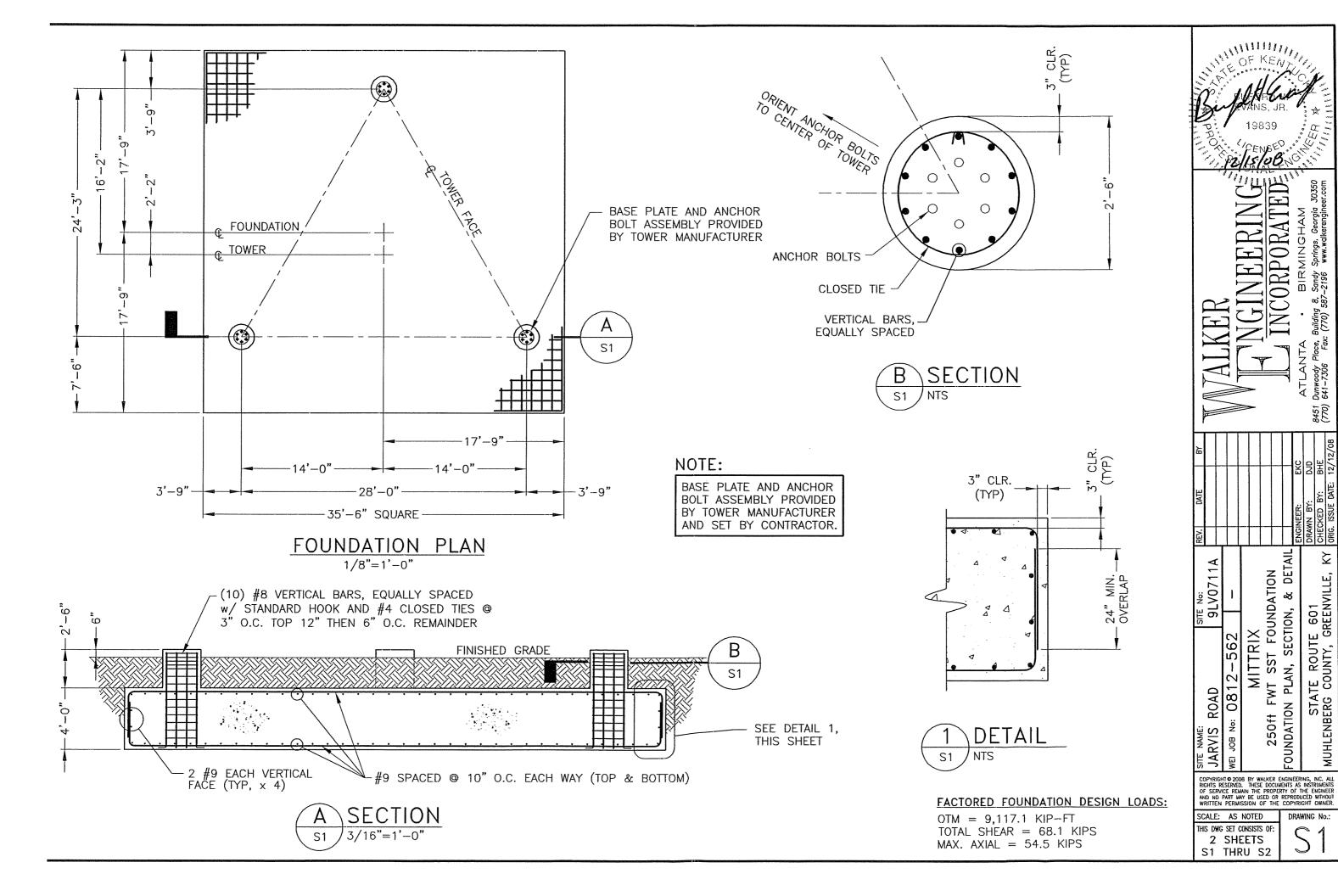
Date and Time: 11/20/2008 11:10:37 AM

Revision: 0

Site: 9LV0711 Jarvis Road- Muhlenburg C

Engineer: HD/tw

DESIGN SPECIFIC	<u>MOITA:</u>			1	10.00	Ø
Design Standard: ANS Basic Wind Speed (N Basic Wind Speed (W Design Ice Thickness Structure Class = II Exposure Category =	o Ice) = 90. fith Ice) = 3 = 0.75 (in)	0 (mph)			20.00	
Topographic Category	v = 1				20.00	
Sct. Length Top Widl (ft) (in)	h Bot Wid (in)	lth			20.00	
1 20.00 312.00 2 20.00 288.00 3 20.00 264.00 4 20.00 240.00	336.00 312.00 288.00 264.00				20.00	
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# GENERAL NOTES

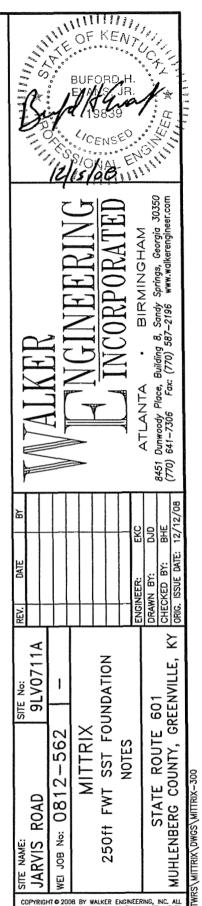
- G1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- G2. THE SIZE AND SPACING OF STRUCTURAL ELEMENTS SHALL NOT BE CHANGED WITHOUT THE FNGINEER'S APPROVAL.
- G3. DETAILS SHOWN ARE TYPICAL; THEREFORE, SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- G4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- G5. ALL STRUCTURAL AND NON-STRUCTURAL ITEMS SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION UNTIL ALL STRUCTURAL ELEMENTS THAT ARE REQUIRED FOR STABILITY, SUCH AS LATERAL BRACING, ANCHOR BOLTS, ETC., HAVE BEEN INSTALLED.
- G6. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES, GROUND DRAINS, DRAIN PIPES, VENTS, OR ANY OTHER MECHANICAL DEVICES PRESENT BEFORE COMMENCING WORK. CONTRACTOR SHALL PROTECT EXISTING FACILITIES, UTILITIES, COAX AND UTILITY LINES FROM DAMAGE. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS ARISING FROM THIS VERIFICATION.
- G7. INCORRECTLY FABRICATED, DAMAGED, MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION.
- G8. CONTRACTOR(S) SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- G9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA REGULATIONS, AND PER THE 2007 KENTUCKY BUILDING CODE (IBC 2006), AND ANSI/TIA-222-G, AND SHALL BE PERFORMED ONLY IN "GOOD WEATHER". GOOD WEATHER MEANS LITTLE OR NO WIND AND RAIN AND MINIMUM TEMPERATURE OF 50 DEGREES F. CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS IF "GOOD WEATHER" CANNOT BE ACHIEVED.
- G10. DESIGN WIND SPEED IS 90 MPH PER ANSI/TIA-222-G.

# REINFORCED CONCRETE NOTES

- C1. CONCRETE SHALL CONFORM TO ACI 301 & 318, AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS.
- C2. AGGREGATES SHALL BE CLEAN AND WELL-GRADED WITH A MAXIMUM SIZE OF 1-1/2". CONCRETE COMPRESSIVE TESTS SHALL CONFORM TO ASTM C39.
- C3. USE NORMAL WEIGHT CONCRETE.
- C4. USE ASTM A615 GRADE 60 FOR ALL CONCRETE REINFORCING STEEL.
- C5. ALL CONCRETE REINFORCEMENT SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED, AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 301 & 318
- C6. MAXIMUM PERMISSIBLE SLUMP = 4".
- C7. APPLY A WATER REPELLENT SEALANT TO ALL EXPOSED CONCRETE SURFACES. USE W.R. MEADOWS "SEAL-TIGHT #1200," OR EQUIVALENT, APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C8. FIELD-VERIFY SOIL PARAMETERS PRIOR TO CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER. SOIL PARAMETERS FOR FOUNDATION DESIGN WERE OBTAINED FROM THE REPORT BY ASHER, INC. ENVIRONMENTAL & ENGINEERING CONSULTING ON THE "GEOTECHNICAL ENGINEERING STUDY", ASHER PROJECT No. 008-221G, DATED 11/14/2008.

# SHOP FABRICATION DRAWING SUBMITTAL

- F1. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER IS RESPONSIBLE FOR ASSURING THAT ALL SUBMITTALS COMPLY WITH THE LATEST PROJECT PLANS, SPECIFICATIONS, GOVERNING CODES AND REGULATIONS, AND IS SOLELY RESPONSIBLE FOR CONFIRMING ALL QUANTITIES, DIMENSIONS, FABRICATION TECHNIQUES, AND COORDINATING WORK WITH ALL TRADES.
- F2. SHOP DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW ADEQUATE TIME FOR PROCESSING.
- F3. ALL SUBMITTALS ARE TO BE ACCOMPANIED BY A LETTER OF TRANSMITTAL.
- F4. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTAL.
- F5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION.



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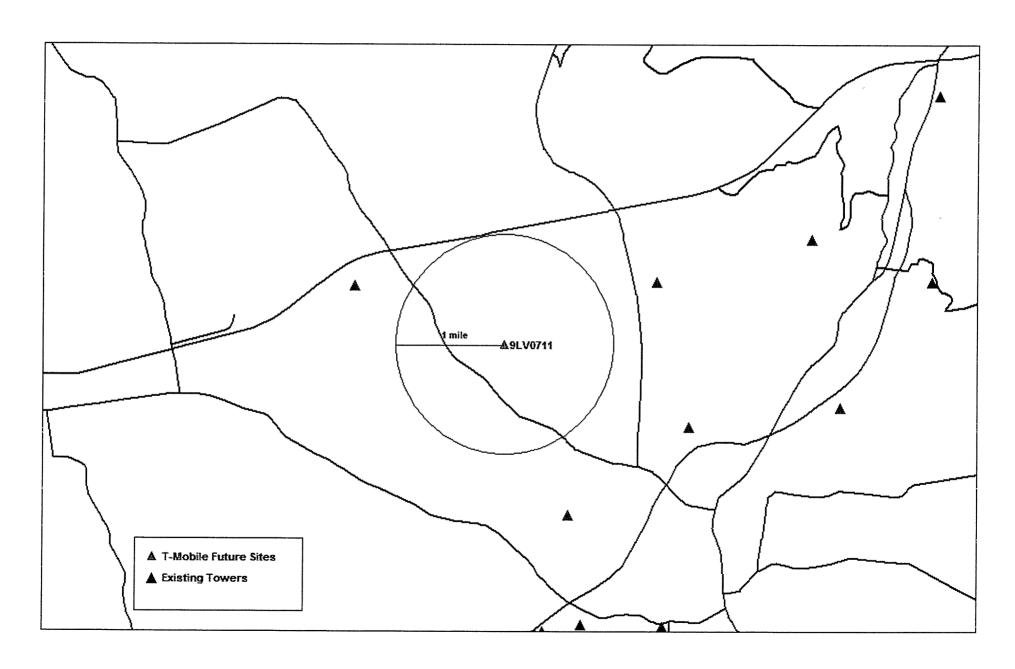
SCALE: AS NOTED
THIS DWG SET CONSISTS OF:
2 SHEETS
S1 THRU S2

S2

DRAWING No.

·		

# T-Mobile USA Site Map 9LV0711 1 Mile Radius



# 9LV0711A / Jarvis 2020 Highway 601 Greenville, Muhlenberg County, Kentucky 42345 Character of the Area Statement and Co-Location Report

Powertel/Memphis Inc. d/b/a T-Mobile Kentucky ("T-Mobile") proposes to construct a 250' self support lattice tower with 5' lightning rods for a total height of 255'. The site will be at 2020 Highway 601 in Greenville, Muhlenberg County, Kentucky. The site is located on the southwestern slope of a wooded hillside in an open field with small brush and trees. The site is located within an old strip mine area abandoned in the 1950's.

T-Mobile intends to utilize this tower as an integral part of its network to enable T-Mobile to meet its customers' needs and expand its coverage in this area. This site, along with another tower in Central City and two additional co-location sites, will expand T-Mobile's coverage along the Wendell H. Ford Western Kentucky Parkway throughout Muhlenberg County.

This tower is being built because there are no towers within the area on which T-Mobile can co-locate, nor which are located where necessary to provide the coverage to work within T-Mobile's system. This site will have an emergency stand-by generator to enable it to continue functioning in the event of a power outage.

3225158 1.doc

G



#### **Notice of Proposed Construction or Alteration - Off Airport**

Project Name: T-MOB-000106431-08 Sponsor: T-Mobile

#### Details for Case: 9LV0711A Jarvis Road

**Show Project Summary** 

**Case Status** 

ASN: 2008-ASO-6027-OE

Status: Work In Progress Date Accepted:

10/31/2008

**Date Determined:** 

Letters:

**Documents** 

11/03/2008 ADD

11/05/2008 📆 9LV0711A Jar

E

d

**Construction / Alteration Information** 

**Notice Of:** 

Construction

**Duration:** 

Permanent

Months: Days:

Work Schedule - Start: Work Schedule - End:

if Temporary:

01/01/2009

State Filing:

Longitude:

03/31/2009 Filed with State **Structure Summary** 

Structure Type: Antenna Tower

Structure Name: 9LV0711A Jarvis Road

**FCC Number: Prior ASN:** 

**Structure Details** 

Latitude:

37° 13' 43.31" N 87° 12' 44.75" W

517 (nearest foot)

260 (nearest foot)

Greenville

arrestor.

Dual-red and medium Intensity

Proposing a 250' self support

tower with a 10' lightning

NAD83 **Horizontal Datum:** 

Site Elevation (SE): Structure Height (AGL):

Requested Marking/Lighting:

Other:

Recommended Marking/Lighting:

**Nearest City:** 

**Nearest State:** 

Description of Location:

Description of Proposal:

**Common Frequency Bands** 

Low Freq High Freq Freq Unit **ERP** 806 824 MHz 849 MHz 824 500 MHz 866 500 851 MHz 500 869 894 MHz 500 896 901 902 MHz 901 3500 930 931 MHz 932 MHz 931 3500 932 932.5 MHz 935 940 MHz 1000

941

1910

1990

2310

2360

MHz

MHz

MHz

MHz

MHz

3500

1640 1640

2000

2000

940

1850

1930

2305

2345

Kentucky **Specific Frequencies** 



#### Land Surveyors and Consulting Engineers

#### Formerly F.S. Land & T. Alan Neal Companies

#### T-MOBILE

Date: October 29, 2008

T-Mobile

Attn: Hamlet Hope

11509 Commonwealth Drive

Louisville, Ky. 40299

Re:

FAA "2-C" Letter

T-Mobile/Louisville PCS Site Name:

T-Mobile/Louisville PCS Site No.:

Property Owner:

T-Mobile /Louisville PCS Site Locale:

FSTAN Project No:

Jarvis Road

9LV0711A

William C. Hill

900 Malone Farm Lane

08-5672

Dear Hamlet,

This is to advise you that we have conducted a Global Positioning System (GPS) Observation for this project in order to establish a geographical position and elevation for the proposed antenna at this location.

The base station used for the GPS observation is described as follows: Station designated "KY HWY DIST 2 CORS ARP" in Madisonville, KY.

Horizontal values are based upon the following datum: NAD 83 Vertical values are based upon the following datum: NGVD 29

Geographic Coordinates of the Self-Support Tower are as follows:

LATITUDE: 37° 13' 43.31" NORTH

LONGITUDE: 87° 12' 44.75" WEST

Ground elevation at the site is 517 FEET (AMSL) Height of proposed monopole is 250 FEET (AGL) Height of proposed lightning arrestor is 260 FEET (AGL) Overall height elevation is 777 FEET (AMSL)

The accuracy of the above stated "Self-Support Tower" values meet or exceed "2-C" accuracy as required by the Federal Aviation Administration (horizontal accuracy ± 50 feet, vertical accuracy ± 20 feet).

Kentucky State Plane Coordinates (South Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "DK3316".

If you have any questions concerning this information please contact us at any time.

Sincerely,

ETATE OF KENTUCKY

CONSULTANT

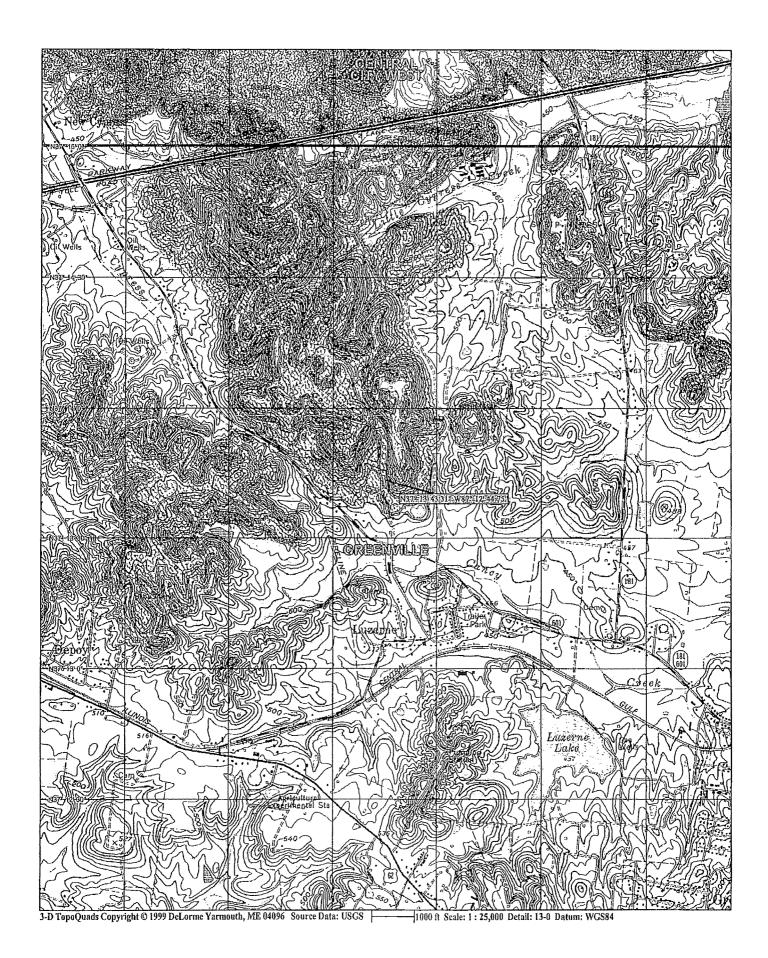
Frank L. Sellinger PLS No. 3282

FStan Land Surveyors and Consulting Engineers 2315 Crittenden Drive, Louisville, Ky. 40217

Phone: 502-635-5866

Fax: 502-636-5263

2315 Crittenden Drive PO Box 17546 Louisville, KY 40217 Phone: (502) 636-5111 (502) 635-5866 Fax: (502) 636-5263





Kentucky Transportation Cabinet, Kentucky Alrport Zonlng Commission, 200 Mero APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER INSTRUCTIONS INCLUDED	
APPLICANT Name, Address, Telephone, Fax, etc.     T-Mobile USA     ATTN: Ken Bischoff     11509 Commonwealth Dr, Suite 9     Louisvill, KY 40299  2. Representative of Applicant Name, Address, Telephone, Fax	9. Latitude: 37 ° 13 ' 43 31 "  10. Longitude: 87 ° 12 ' 44 75 "  11. Datum: ☒ NAD83 ☐ NAD27 ☐ Other
T-Mobile USA ATTN: Raffi Achiba 11509 Commonwealth Dr, Suite 9 LouisvIII, KY 40299	Muhlenburg County Alrport  14. Distance from #13 to Structure: 2.7 nm  15. Direction from #13 to Structure: 93.32  16. Site Elevation (AMSL): 517.00 Feet
3. Application for: ☒ New Construction ☐ Alteration ☐ Existing	17. Total Structure Height (AGL): 260.00 Feet
4 Duration: A Permanent  Temporary (MonthsDays)	18. Overall Height (#16 + #17) (AMSL):Feet
5. Work Schedule: Start End	19. Previous FAA and/or Kentucky Aeronautical Study Number(s):
6. Type: ⊠ Antenna Tower ☐ Crane ☐ Building ☐ Power Line ☐ Landfill ☐ Water Tank ☐ Other	20 Description of Location: (Attach USGS 7.5 minute Quadrangle Map
7. Marking/Painting and/or Lighting Preferred:  Red Lights and Paint	or an Airport layout Drawing with the precise site marked and any certified survey)  Site will be located at: 900 Malone Farm Lane, Belton, KY 42324
21. Description of Proposal:	
Erection of a self support tower.	
22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1)  No Xyes, When October 31, 2008	been filed with the Federal Aviation Administration?
CERTIFICATION: I hereby certify that all the above statements made by me are to	true, complete and correct to the best of my knowledge and belief.
Raffi Achiba	Wie 10/31/2008
Printed Name and Title // Signature	Date
PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 18: 050:Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). in further penalties.	
Commission Action:	man, KAZC Administrator, KAZC
Approved	
☐ Disapproved	Date

#### GEOTECHNICAL ENGINEERING STUDY

# PROPOSED COMMUNICATIONS TOWER JARVIS ROAD SITE BELTON, KENTUCKY MUHLENBERG COUNTY

ASHER PROJECT No. 008-221G

#### Prepared For:

Mr. Dean Davis T-Mobile South, LLC 3800 Ezell Road, Suite 815 Nashville, TN 37211

Prepared By:

Asher, Inc. 1021 S. Floyd Street Louisville, Kentucky 40203

November 14, 2008

## ASHER, INC.

#### Environmental & Engineering Consulting

November 14, 2008

Mr. Dean Davis T-Mobile South, LLC 3800 Ezell Road, Suite 815 Nashville, TN 37211

RE: Geotechnical Engineering Study

Proposed Communications Tower

Jarvis Road Site Belton, Kentucky Muhlenberg County

Dear Mr. Davis,

Asher, Inc. has completed a Geotechnical Engineering Study for the above referenced project. This report contains the findings of our subsurface exploration, geotechnical recommendations to aid design of foundations, and construction recommendations with regard to site work; fill placement, and foundation installation and inspection.

We appreciate the opportunity to be of service to you on this project. If we can be of further assistance, or if you have any questions regarding this report, please contact our office.

Sincerely,

Jacob D. Brown, E.I.T.

Staff Engineer

Richard A. Linker, P. E.

Rud Lih

President

### TABLE OF CONTENTS

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#### APPENDICES

Site Location Plan Aerial Photograph Geologic Map Geologic Map Legend Mine Report Location of Test Borings Test Boring Logs

#### 1.0 PROJECT INFORMATION

The site is located on State Route 601 about 1/4-mile west of Nebo Cemetery Road in Greenville, Kentucky. The proposed lease area is located within an open field with brush and small trees. The new tower area slopes slightly downhill to the southwest. No ponding water was observed on the site. Based on old mine maps, the lease area is located within an old strip mine area abandoned in the 1950s.

Proposed for construction is a 250 ft. lattice tower and access road. The tower is expected to have either a mat foundation bearing on soil, or drilled piers bearing on bedrock. The equipment building/cabinets will be pre-fabricated structures supported on conventional shallow foundations.

#### 2.0 SUBSURFACE EXPLORATION

The subsurface conditions were explored by conducting two borings within the proposed lease area. The boring locations are shown on the plan included in the Appendix. The boring logs (also included in the Appendix) describe the materials and conditions encountered at each location.

A 3 in. layer of topsoil was encountered our borings. Beneath the topsoil, the borings encountered mine spoil consisting of a mixture of clay soil, rock and coal fragments. The encountered mine spoil was noted to be firm to hard with Standard Penetration Test results (N Values) ranging from 5 to 50+ blows per ft. The mine spoil is underlain by gray and brown lean clay to auger refusal. Auger refusal was encountered at depths ranging from 16.6 to 17.3 ft. The project site is underlain by intermittent layers of sandstone, siltstone, shale, and limestone within the Carbondale Formation

#### 3.0 DESIGN RECOMMENDATIONS

The following design recommendations have been developed on the basis of the previously described project characteristics and subsurface conditions. Please notify our office if the project description included herein is incorrect, or if the location of the proposed tower is changed. Asher Inc. would then review the new project description to determine if revisions to our recommendations are necessary.

#### 3.1 Site Development and Foundations

Based on the subsurface conditions encountered, the existing soils are not suitable for the anticipated loading on shallow mat foundations without remediation. Mine spoil is generally irregular in composition with pockets of soft material adjacent to large rock boulders commonly present. Removal of the mine spoils and replacing with crushed stone will significantly lower the risk of differential settlement of the tower foundations.

Drilled piers bearing on sound continuous bedrock can be used if deemed to be more economical. However, drilling the piers through the mine spoil may result in significant rock removal costs if large boulders are encountered in the mine spoil.

#### SHALLOW FOUNDATIONS

If mat foundations are used, the footings can be proportioned using a net allowable bearing capacity of 3,000 psf with the base bearing at a depth of at least 5 ft. below existing grades. With mat foundations, removal of the mine spoil will be required. The mine spoil was encountered to depths ranging from 12 to 14 ft. below the existing ground surface. Due to the composition of mine spoil, a large excavator with at least a 3 ft. bucket (and possibly a ripper bucket) should be used for removal. The removed mine spoil can be replaced with KY No. 3 crushed limestone. The crushed stone should be compacted using the excavator bucket. A vibratory plate compactor can be used on the final lifts. Site Classification D can be used for seismic design. Based on the results of the field tests, it is estimated that the foundation settlements if mat foundations are used should not exceed about 1 in. Differential settlements should not exceed 3/4 in. Careful field control during construction will minimize the actual settlement that occurs.

#### 3.1 Site Development and Foundations (cont.)

#### **DRILLED PIERS**

The drilled piers should be sized using a maximum allowable end-bearing pressure of 40 kips per square ft. (20 tons per sq. ft.) for piers bearing on the continuous sandstone bedrock. Site Classification C can be used for seismic design.

Soil Parameters that may be used in design are as follows:

	<u>0-14 ft.</u>
Coefficient of Passive Earth Pressure (Kp)	2.8
Unit Weight of Soil (pcf)	125
Lateral Subgrade Modulus (pci)	200
Cohesion (psf)	0
Angle of Internal Friction (deg.)	28

Our borings encountered about 12 to 14 ft. of mine spoil. A rock bit may be needed to drill through the mine spoil due to the presence of large boulders commonly encountered. The drilled shafts should be socketed into the sandstone bedrock at least 1 ft.

We recommend that an average of 8 ft. of rock removal per drilled pier location be estimated when conducting a cost analysis of drilled piers vs. shallow foundations. The 8 ft. is assuming that a rock bit will be needed on at least ½ of the mine spoil depth.

Total and differential settlements of the tower foundations bearing on competent bedrock, using the recommended bearing pressure would be less than ½ in.

The following construction considerations are recommended for drilled shaft construction:

- Provide a minimum drilled shaft diameter of 30 inches to reasonably enter the drilled shaft excavation for cleaning, bottom preparation, and observation.
- Specify concrete slumps ranging from 6 to 8 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled shaft, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.

#### 3.1 Site Development and Foundations (cont.)

#### **DRILLED PIERS (CONT.)**

- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion, and to allow workers to safely enter, clean and observe the drilled shaft.
- Observe the drilled shaft excavation after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and de-watered.
- Clean the socket "face" prior to concrete placements. Cleaning will require hand cleaning or washing if a mud smear forms on the face of the rock. The geotechnical engineer should approve the rock socket surface prior to concrete placement.
- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.

The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.

Direct the concrete placement into the drilled shaft through a centering chute to reduce side flow or segregation.

#### 3.1 Site Development and Foundations (cont.)

#### **Building Foundations**

The proposed equipment cabinet(s) can be supported on conventional shallow foundations. Due to the expected light loads, the proposed equipment cabinets can be constructed on the mine spoil with minimal risk of settlement. The footings can be proportioned using a net allowable bearing capacity of 2,000 psf. Site Classification D can be used for seismic design. Wall footings must be at least 16 in. wide and column footings must be at least 24 in. wide to provide an adequate factor of safety for bearing capacity. All exterior footings and footings in unheated areas must bear at least 30 inches below final exterior grade for frost protection. Interior footings in heated areas can bear at nominal depths below the floor (at least 12 inches). Upon approval of the subgrade, it is recommended that the cabinet floor slab be supported on a 6-in. layer of KY Dense Graded Aggregate (DGA) crushed limestone compacted to 100 percent of the standard Proctor.

#### 3.2 Pavements

All pavement subgrade surfaces should be uniformly sloped to facilitate drainage and to avoid ponding of water beneath the pavement. Assuming proper subgrade preparation and drainage, a California Bearing Ratio (CBR) value of 2 is recommended.

This value applies for the soil subgrade that is stable under a proofroll inspection, and for soil that is recompacted to 95 percent of the standard Proctor maximum dry density.

The following granular or asphalt pavement sections are recommended:

Light Truck Areas 4.0 in. KY DGA

6.0 in. KY No. 3 Crushed Limestone

6 oz. Nonwoven Filter Fabric

Light Truck Areas 2.0 in. asphalt concrete base

8.0 in, KY DGA

#### 3.2 Pavements (cont.)

All paving material should comply with the current Kentucky Department of Highway Specifications. The DGA granular base should be compacted to at least 98 percent of the standard Proctor maximum dry density (ASTM D-698). It should not be expected that the pavement would be maintenance free. However, the required maintenance work should be within normal limits.

#### 4.0 Construction Recommendations

Variations in subsurface conditions must be expected during construction. It is therefore recommended that the geotechnical engineer be retained to review the soils-related phases of the project and to correlate the subsurface data with the soil conditions that are encountered during construction.

#### 4.1 Subgrade Preparation

Prior to construction or the placement of new engineered fill, the exposed subgrade should be evaluated by the project geotechnical engineer. The evaluation should include proofrolling of the exposed subgrade with a loaded dump truck. If unsuitable material were disclosed, the geotechnical engineer would recommend an appropriate remedial measure at that time. The silty clay soils encountered just beneath the pavement surface will be sensitive to moisture and heavy construction equipment, and may require aeration and re-compaction or undercutting to reach firm subgrade. The severity of this potential problem depends to a great extent on the weather conditions prevailing during construction.

The contractor should exercise discretion when selecting equipment sizes and also control surface water while the subgrade soils are exposed. It may be necessary to undercut and stabilize the proposed pavement areas with crushed stone, or use a geotextile fabric to improve the subgrade, especially if the sitework is done during wet weather conditions.

#### 4.2 Engineered Fill

Engineered fill should be placed on a prepared subgrade that has been evaluated by the geotechnical engineer. Engineered fill should be compacted to at least 98 percent of the standard Proctor maximum dry density (ASTM D-698. Field density tests should be performed on each lift as necessary to insure that the specified compaction is being achieved. Fill should be placed in horizontal lifts and each lift should be compacted to the specified density. Lift thickness of 8 in. and 12 in. should be used for clayey soils and granular soils, respectively. The on site soils are suitable for use as engineered fill.

#### 4.3 Foundation Excavations

All concrete for foundations should be poured the same day the excavation is made. If this is not practical, the foundation excavation should be adequately protected. Soils exposed in the base of all excavations must be protected against rain and freezing. Surface water should be drained away from all excavations and not allowed to pond.

#### 4.4 Construction Dewatering

At the time of our field investigation, no groundwater was encountered in the depths explored by our borings. Therefore, the water level appeared to be below the expected maximum excavation depth at the site for the expected foundations. However, due to seasonal variations in rainfall, local groundwater levels could rise to above the bottom of the excavation. Recommendations for construction dewatering can be made during construction if needed.

#### 5.0 QUALIFICATIONS

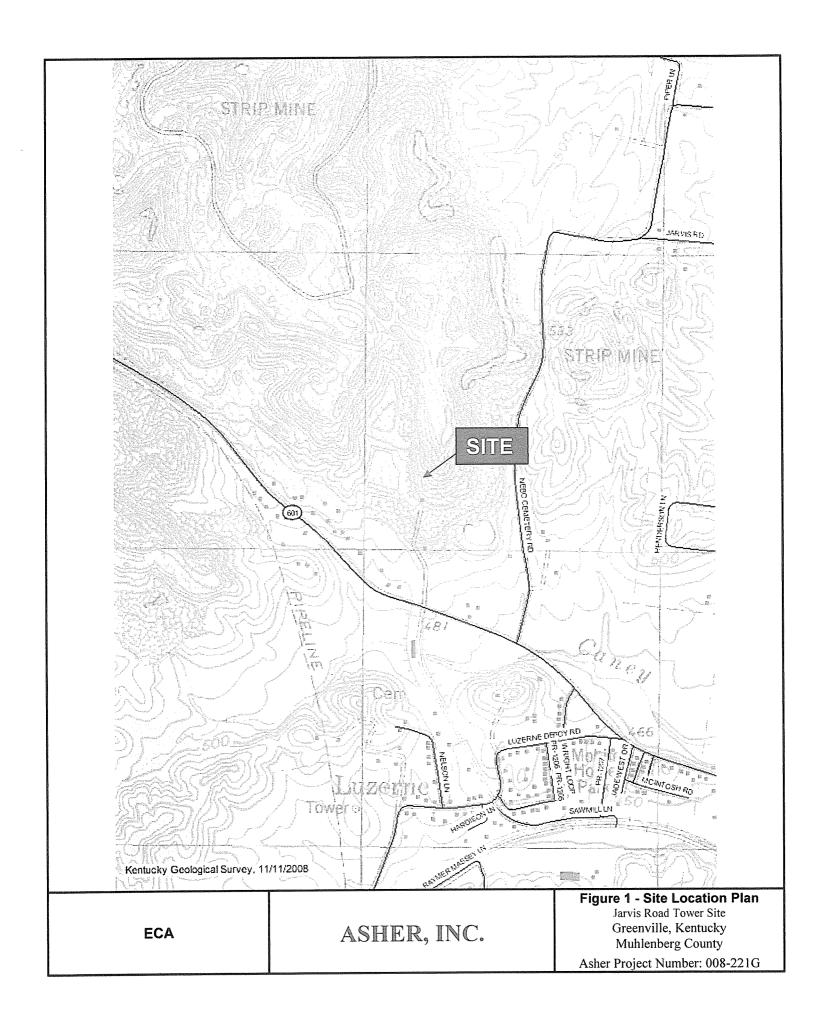
Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. Asher, Inc. is not responsible for the independent conclusion, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

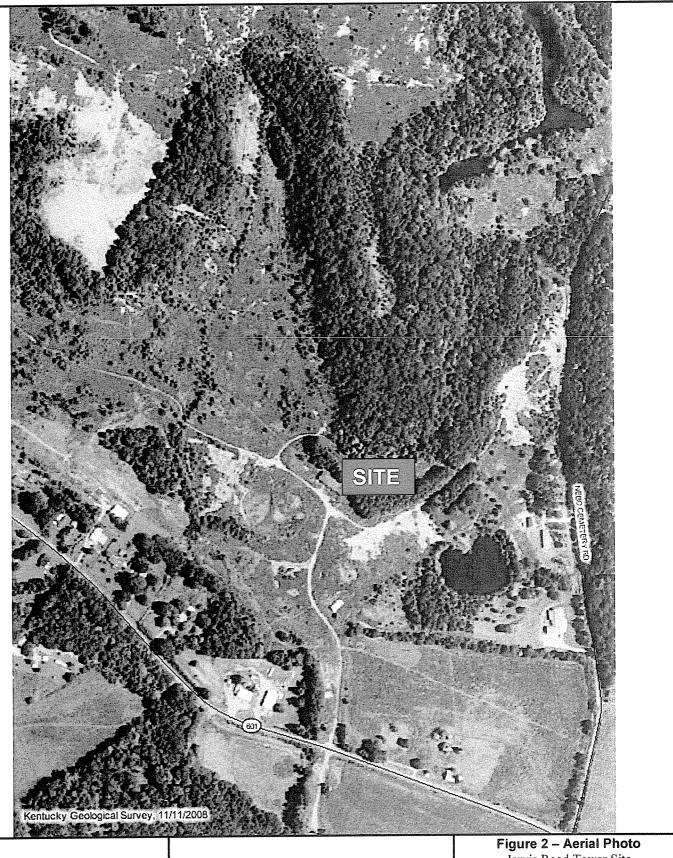
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions and to check that the soil connected construction phases are properly carried out. If significant variations or changes are in evidence, it may then be necessary to reevaluate the recommendations of this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made to determine if any modification in the recommendations will be required.

## **APPENDIX**

Site Location Plan
Aerial Photograph
Geologic Map
Geologic Map Legend
Mine Report
Location of Test Borings
Test Boring Logs





**ECA** 

ASHER, INC.

Figure 2 – Aerial Photo Jarvis Road Tower Site Greenville, Kentucky Muhlenberg County

Asher Project Number: 008-221G



**ECA** 

ASHER, INC.

Figure 3 – Geologic Map Jarvis Road Tower Site Greenville, Kentucky Muhlenberg County

Asher Project Number: 008-221G

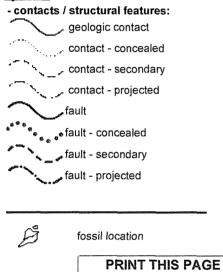
#### Kentucky Geological Survey Geologic Information Service Map Legend

#### **Geologic Units In Current View:**

1:24,000 scale data (detailed geology)

<u>.</u>	
Qal	Alluvium (Quaternary - Quaternary)
Psh	Shelburn Formation (Lower Pennsylvanian - Middle Pennsylvanian)
Pc	Carbondale Formation (Lower Pennsylvanian - Middle Pennsylvanian)

#### Symbols:



**NOTE:** in order to print colors, make sure your browser is enabled to print background colors.

Internet Explorer Instructions: Go to Tools --> Internet Options --> Advanced --> Under the "Printing" header, click the "Print background colors and images" box.

<u>Firefox Instructions</u>: Go to File --> Page Setup --> Click the "Print Background (colors & images)" box.

#### Mine Report For State File Number 00158-2

State File Number: 00158-2

Mine Status: Abandoned

Federal ID Number(s):

Last Company Name: DUNCAN, W G C C

Seam(s): NO. 11, NO. 9

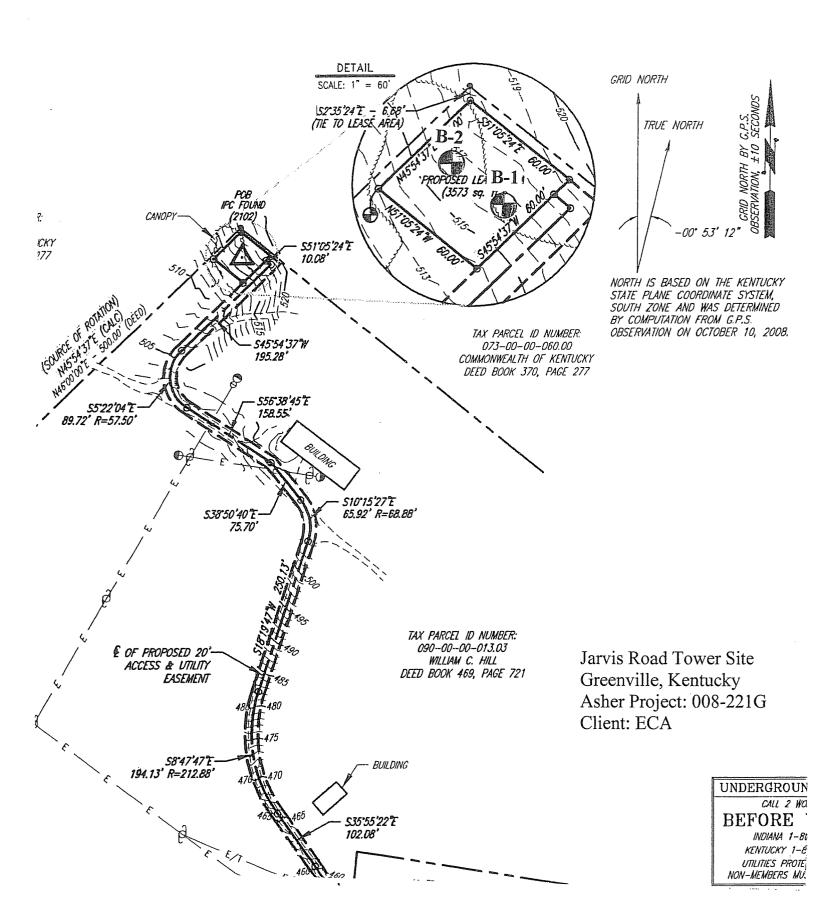
Mine Type: County: Nearest Town: Stream:

Branch:

#### **Historic Mine Information:**

License Number	Report Year	Permit Number	Company Name	Mine Name	Operator
	1957		DUNCAN, W G C C	LUZERNE	·
	1957		DUNCAN, W G C C	LUZERNE	
	1956		DUNCAN, W G C C	LUZERNE	
	1955		DUNCAN, W G C C	LUZERNE	
	1953		DUNCAN, W G C C	LUZERNE	•
	1952		DUNCAN, W G C C	LUZERNE	
	1947		LUZERNE GRAHAM M C	LUZERNE-BACK DOOR #11	

License Number	Date Map Posted	Report Year	Tonnage	Seam Name	Seam Height	Lat	Long
	10/08/1957	1957		NO. 11	060	37° 15' 49"	87° 13' 30"
	10/08/1957	1957		NO. 9	060	37° 15' 49"	87° 13' 30"
	12/31/1956	1956		NO. 11	060	37° 15' 49"	87° 13' 30"
	01/01/1956	1955		NO. 11	060	37° 15' 49"	87° 13' 30'
	12/31/1953	1953		NO. 11	060	37° 15' 49"	87° 13' 30'
	12/31/1952	1952		NO. 11	060	37° 15' 49"	87° 13' 30"
	10/28/1947	1947	591,829	NO. 11	060	37° 15' 49"	87° 13' 30"



**BORING LOCATION PLAN (FIGURE 4)** 

## **BORING LOG**

ASHER, INC.

P.O. Box 17534 Louisville, KY 402017

(502) 589-0073

Boring No.: B-1

ELEV.: 516.5

Project: Jarvis Road Tower Site Asher Project No.: 008-221G

Location: Greenville, KY

Client: ECA Date: November 10, 2008

Elev (feet)	Depth (feet)	Sample Number	SPT Blows / 6"	N	Percent Moisture	Description of Material
		1	3-6-8	14		FILL- LEAN CLAY (CL), silty, w/ rock fragments, sandy, STIFF to HARD, orangish
		2	14-22-50/.4	50+	8.3	brown and gray, moist
	5 —	3	13-13-15	28	8.8	
		4	8-7-8	15	11.9	
	10 —	5	7-13-20	33	14.9	FILL- LEAN CLAY (CL), w/ coal fragments, w/ rock fragments, HARD, gray, tan, and orangish brown, moist
499.9	15 — —	6	50/.4	50+	15.9	LEAN CLAY (CL), silty, HARD, orangish brown and gray, moist  AUGER REFUSAL AT 16.6 FT.
	20					
	25			:		

Notes: No groundwater was encountered during drilling.

Topsoil - 3 in.

Elevations were interpolated from the supplied Topographic Survey performed by FS Tan.

## **BORING LOG**

ASHER, INC.

P.O. Box 17534 Louisville, KY 402017

(502) 589-0073

**Boring No.:** 

B-2

ELEV.: 516.0

Project: Jarvis Road Tower Site

Asher Project No.:

008-221G

Location: Greenville, KY

Client: ECA

Date: November 10, 2008

Elev (feet)	Depth (feet)	Sample Number	SPT Blows / 6"	N	Percent Moisture	Description of Material
		1	3-4-7	11		FILL- LEAN CLAY (CL), silty, w/ rock and coal fragments, sandy, STIFF to FIRM,
		2	6-14-13	27	15.7	orangish brown and gray, moist
	5 —	3	5-5-5	10	15.3	
		4	3-3-2	5	17.3	
	10	5	4-50/.3	50+	20.1	Abundant coal and rock fragments, wet zone
	15 —	4	50/.4	50+	14.2	LEAN CLAY (CL), silty, VERY STIFF, orangish brown and gray, dry Weathered Rock - SANDSTONE
498.7	20					AUGER REFUSAL AT 17.3 FT.
	25 —					

Notes: No groundwater was encountered during drilling.

Topsoil - 8 in.

Elevations were interpolated from the supplied Topographic Survey performed by FS Tan.

# MAPQUEST.

T-Mobile/"Jarvis"/Case No. 2009-00021 Direction from County Seat/County Judge Executive Office

131 E. Main Cross Street, Greenville, Kentucky to Cell Tower Site at 2020 State Rt. 601, Greenville, KY

Directions printed by: Theresa A. Tharp, Paralegal Greenebaum Doll & McDonald, PLLC 3500 National City Tower Louisville, Kentucky 40202 (502) 587-3748

B:

Total Time: 6 minutes

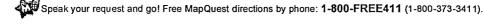
Total Distance: 3.08 miles

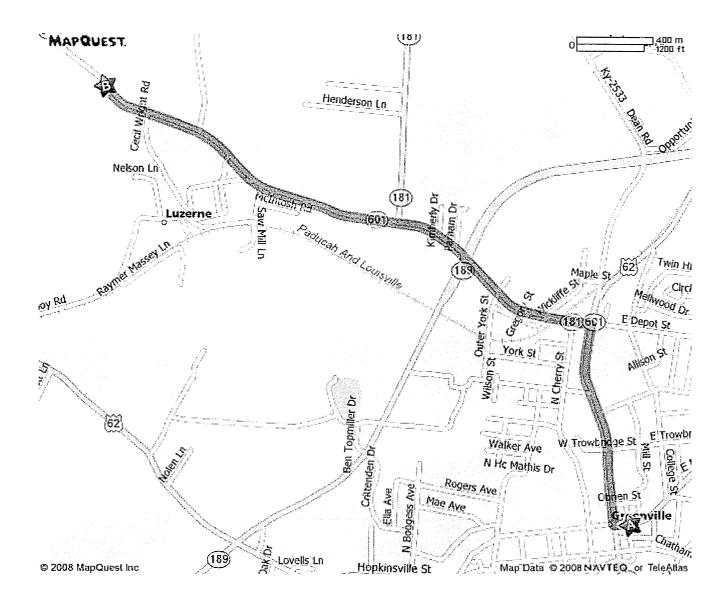
#### A: 131 E Main Cross St, Greenville, KY 42345-1577

БТАРТТ	1: Start out going WEST on E MAIN ST/KY-176/E MAIN CROSS ST toward COURT ST.	0.1 mi
	2: Turn RIGHT onto US-62/N MAIN ST/KY-181.	0.8 mi
	3: Turn LEFT onto KY-181/KY-601/W DEPOT ST. Continue to follow KY-601.	2.2 mi
END	4: End at 2020 State Route 601 Greenville, KY 42345-4388	The second secon
: 2020 Stat	e Route 601, Greenville, KY 42345-4388	

Total Time: 6 minutes

Total Distance: 3.08 miles





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MapQuest. Your use of MapQuest means you agree to our <u>Terms of Use</u>

Muhlenberg # 2

#### SITE LEASE WITH OPTION

THIS SHELEASE WHIT OPTION (this "Lease") is by and between William C. Hill, an individual ("Landford") and Powertel Memphis. Inc. a Delaware corporation ("Tenant")

#### 1. Option to Lease

- (b) During the Option Period and any extension thereof, and during the Initial Term and any Renewal Term (as those terms are defined below) of this Lease. Landlord agrees to cooperate with Tenant in obtaining, at Tenant's expense, all licenses and permits or authorizations required for Tenant's use of the Premises (as defined below) from all applicable government and/or regulatory entities (including, without limitation, zoning and land use authorities, and the Federal Communications Commission ("FCC") ("Governmental Approvals"), including all land use and zoning permit applications, and Landlord agrees to cooperate with and to allow Tenant, at ne cost to Landlord, to obtain a title report, zoning approvals and variances, land-use permits. Landlord expressly grants to Tenant a tight of access to the Property to perform any surveys, soil tests, and other engineering procedures or environmental investigations ("Tests") on the Property deemed necessary or appropriate by Tenant to evaluate the suitability of the Property for the uses contemplated under this Lease. During the Option Period and any extension thereof, and during the Initial Term or any Renewal Term of this Lease. Landlord agrees that it will not interfere with Tenant's efforts to secure other licenses and permits or authorizations that relate to other property. During the Option Period and any extension thereof, Tenant may exercise the Option by so notifying Landlord in writing, at Landlord's address in accordance with Section 12 hereof.
- (c) If Tenant exercises the Option, then Fundlord hereby leases to Tenant that portion of the Property sufficient for placement of the Antenna Facilities (as defined below), together with all necessary space and easements for access and utilities, as generally described and depicted in the attached Lixhibit B (collectively referred to hereinafter as the "Premises"). The Premises, located at 2020 flwy 601. Greenville, Muhlenberg County, KY 42345, comprises approximately 3,600 square feet.
- 2 Term. The initial form of this Lease shall be five (5) years commencing on the date of exercise of the Option (the "Commencement Date"), and terminating at midnight on the last day of the initial term (the "Initial Term").
- 3 Renewal Terms shall have the right to extend this Lease for five (5) additional and successive five-year terms (each a "Renewal Term") on the same terms and conditions as set forth herein. This Lease shall automatically renew for each successive Renewal Term unless Tenant notifies Landlord, in writing, of Tenant's intention not to renew this Lease, at least thirty (30) days prior to the expiration of the Initial Term or any Renewal Term. If Tenant shall remain in possession of the Premises at the expiration of this Lease or any Renewal Term without a written agreement such tenancy shall be deemed a month-to-month tenancy under the same terms and conditions of this Lease.

#### 4. Rent.

(a) From and after the Commencement Date, Lenant shall pay Landlord or designee, as rent.

per month ("Rent"). The first-payment of Rent shall be due-within twenty (20) days following the Commencement Date and shall be provided based on the days remaining in the month following the Commencement Date, and thereafter Rent-will be payable monthly in advance by the fifth day of each month to Landlord at the address specified in Section 12 below. If this Lease is terminated for any reason (other than a default by Fenant) at a time other than on the last day of a month. Rent shall be provided as of the date of termination and all prepaid Rent-shall be immediately refunded to Tenant. Landlord, its successors, assigns and/or designee, if any, will submit to Tenant any documents required by Tenant in-connection with the payment of Rent-including, without limitation, an IRS Form W 9

(b) During the Initial Form and any Renewal Forms, monthly Rent shall be adjusted, effective on the first day of each year of the Initial or Renewal Form, and an each such subsequent anniversary thereof, to an amount equal to one hundred three-percent (103%) of the monthly-Rent in effect immediately prior to the adjustment date.

- 5. <u>Permitted Use</u>—the Premises may be used by Tenant for the transmission and reception of radio communication signals and for the construction, installation, operation, maintenance, repair, removal or replacement of related facilities, including, without limitation, tower and base, antennas, microwave dishes, equipment shelters and/or cabinets and related activities.

Site Number 91.V0711
Site Name Jaines
Market: Louisville

right, in addition to any other rights that it may have at law or in equity, to being a court action to enjoin such interference or to terminate this Lease immediately upon written notice

#### 7 Improvements, Utilities, Access

- (a) Tenant shall have the right, at its expense to erect and maintain on the Preinises improvements, personal property and facilities necessary to operate its communications system, including, without limitation, radio transmitting and receiving antennas, microwave dishes, tower and base, equipment shelters and/or cabinets and related cables and utility lines and a location based system, as such location based system may be required by any county, state or federal agency/department, including without limitation, additional antenna(s), coaxial cable, base units and other associated equipment (collectively the "Antenna Facilities"). Lemant shall have the right to after, replace, expand, enhance and upgrade the Antenna Facilities at any time during the term of this Lease. Tenant shall have the right to after, replace, expand, enhance and upgrade the Antenna Facilities and ordinances. Landlord acknowledges that it shall neither interfere with any aspects of construction nor attempt to direct construction personnel as to the location of or method of installation of the Antenna Facilities and the Fasements (as defined below). The Antenna Facilities shall remain the exclusive property of Lenant and shall not be considered fixtures. Tenant shall have the right to remove the Antenna Facilities at any time during and upon the expiration or termination of this Lease.
- (b) Tenam, at its expense may use any and all appropriate means of restricting access to the Antenna Pacilities, including, without limitation, the construction of a lense.
- (c) Tenant shall at Tenant's expense, keep and maintain the Antenna Facilities now or hereafter located on the Property in commercially reasonable condition and repair during the term of this Lease normal wear and tear and casualty excepted. Upon termination or expiration of this Lease the Premises shall be returned to Landlord in good, usable condition normal wear and tear and casualty excepted.
- (d) Tenant shall have the right to install utilities at Tenant's expense, and to improve the present utilities on the Property (including, but not limited to the installation of emergency power generators). Fandlord agrees to use reasonable efforts in assisting Tenant to acquire necessary utility service. Tenant shall wherever practicable, install separate meters for utilities used on the Property by Tenant. In the event separate meters are not installed. Tenant shall pay the periodic charges for all utilities attributable to Tenant's use, at the rate charged by the servicing utility Landlord shall diligently correct any variation, interruption or failure of utility service.
- (e) As partial consideration for Rent paid under this Lease. Landford hereby grants Tenant casements on, under and across the Property for ingress, egress, utilities and access finefulding access for the purposes described in Section 1) to the Premises adequate to install and maintain utilities, including, but not limited to, the installation of power and telephone service cable, and to service the Premises and the Antenna Facilities at all times during the Initial Term of this Lease and any Renewal Term (collectively, the Tasements"). The Fasements provided bereinder shall have the same term as this Lease.
- (i) Tenant shall have 24-hours-a-day. 7-days-a-week access to the Premises at all times during the Initial Term of this Cease and any Renewal Term, at no charge to Tenant
- (g) Landlord shall maintain and repair all access roadways from the nearest public roadway to the Premises in a manner sufficient to allow vehicular and pedestrian access at all times, at its sole expense, except for any damage to such roadways caused by Tenant
  - 8 Termination. Except as otherwise provided berein, this bease may be terminated, without any penalty or further liability as follows:
- ta) upon thirty (30) days' written notice by Lundford it Lenant fails to cure a default for payment of amounts due under this Lease within such thirty (30) day period
- the immediately upon written notice by Tenant it Tenant notifies Fandlord of any imacceptable results of any Tests prior to Tenant's installation of the Antenna Facilities on the Premises or it Tenant does not obtain, maintain, or otherwise forfeits or cancels any ficense (including, without limitation and fit Theense), permit or any Governmental Approval necessary to the installation and or operation of the Antenna Facilities or Tenant's business:
- (c) upon thirty (30) days, written notice by Tenant d Tenant determines that the Property or the Antenna Facilities are inappropriate or immecessary for Tenant's operations for economic or technological reasons.
- (d) immediately upon written notice by Tenant if the Premises or the Antenna Facilities are destroyed or damaged so as in Tenant's reasonable judgment to substantially and adversely affect the effective use of the Antenna Facilities. In such event, all rights and obligations of the parties shall cease as of the date of the damage or destruction, and Tenant shall be entitled to the reimbursement of any Rent prepaid by Tenant. If Tenant elects to continue this Lease, then all Rent shall about until the Premises and/or the Antenna Facilities are restored to the condition existing immediately prior to such damage or destruction, or
- (e) at the time title to the Property transfers to a condemning authority pursuant to a taking of all or a portion of the Property sufficient in Fenant's determination to render the Premises unsuitable for Tenant's use. Landlord and Tenant shall each be entitled to pursue their own separate awards with respect to such taking. Sale of all or part of the Property to a purchaser with the power of eminent domain in the face of the exercise of the power shall be treated as a taking by condemnation.

- 9 Default and Right to Cure. Notwithstanding anything contained herem to the contrary and without waiving any other rights granted to it at law or in equity, each party shall have the right, but not the obligation, to terminate this Lease on written notice pursuant to Section 12 hereof to take effect immediately, if the other party fails to perform any covenant or commits a material breach of this Lease and fails to diligently pursue a cure thereof to its completion after thaty (30) days, written notice specifying such failure of performance or default.
- 10. Faxes Landlord shall pay when due all real property taxes for the Property, including the Premises. In the event that Landlord fails to pay any such real property taxes or other fees and assessments. Lenant shall have the right, but not the obligation, to pay such owed amounts and deduct them from Rent amounts due under this Lease. Notwithstanding the foregoing. Tenant shall pay any personal property tax, real property tax or any other tax or fee which is directly attributable to the presence or installation of Tenant's Antenna Pacilities, only for so long as this Lease remains in effect. If Landlord receives notice of any personal property or real property tax assessment against Landlord, which may affect Tenant and is directly attributable to Lenant's installation. Landlord shall provide timely notice of the assessment to Tenant sufficient to allow Lenant to consent to or challenge such assessment whether in a Court, administrative proceeding, or other venue, on behalf of Landlord and/or Tenant. Further Landlord shall provide to Lenant any and all documentation associated with the assessment and shall execute any and all documents reasonably necessary to effectuate the intent of this Section 10. In the event real property taxes are assessed against Landlord or Lenant for the Property. Lenant shall have the right, but not the obligation, to terminate this Lease without further liability after thirty (30) days' written notice to Landlord, provided Tenant pays any real property taxes assessed as provided herein.
  - 11 Insurance and Subrogation and Indomnification
- ta) Tenant will maintain Commercial General Liability Insurance in amounts of One Million and no/100 Dollars (\$1,000,000,000) per occurrence and Two Million and no/100 Dollars (\$2,000,000,00) aggregate. Fenant may satisfy this requirement by obtaining the appropriate endorsement to any master policy of liability insurance Lemmt may maintain.
- (b) I and/ord and Tenant hereby mutually release each other (and their successors or assigns) from liability and waive all right of recovery against the other for any loss or damage covered by their obspective first party property insurance policies for all perils insured thereunder. In the event at such insured loss, neither party's insurance company shall have a subrogated claim against the other.
- (c) Subject to the property insurance waivers set forth in subsection 11th. Landlord and Tenant each agree to indemnify and hold harmless the other party from and against any and all claims damages, costs and expenses including reasonable altorney fees to the extent caused by or arising out of the negligent acts or omissions or willful ausconduct in the operations or activities on the Property by the indemnifying party or the employees agents, contractors, licensees, tenants and/or subtenants of the indemnifying party, or a breach of any obligation of the indemnifying party under this I case. The indemnifying party is obligations under this section are contingent upon its receiving prompt written notice of any event giving rise to an obligation to indemnify the other party and the indemnified party's granting it the right to control the defense and settlement of the same.
- (d) Notwithstanding anything to the contrary in this Lease, the parties hereby confirm that the provisions of this Section 11 shall survive the expuration or termination of this Lease.
- (e) Fenant shall not be responsible to Fandford, or any third-party, for any claims, costs or damages (including, fines and penalties) attributable to any pre-existing violations of applicable codes, statutes or other regulations governing the Property
- 12 Notices. All notices requests, demands and other communications shall be in writing and are effective three (3) days after deposit in the US mail, certified and postage paid, or upon receipt it personally delivered or sent by next-business-day delivery via a nationally recognized overnight courier to the addresses set forth below. Landlord or Tenant may from time to time designate any other address for this purpose by providing written notice to the other party.

#### If to Tenant, to:

1-Mobile USA, Inc 12920 SE 38th Street Bellevue, WA 98006 Attn. PCS I case Administrator

#### With a copy to:

Attn: Legal Dept 12920 SE 38th Street Bellevite, WA 98000

#### And with a copy to:

Matt Chastain Attn. Lease Administration Manager 3800 Ezell Nashville TN 37711

#### If to Landlord, to:

Wiffiam C. Hill 900 Malone Larry Lanc Belton, KY 42324

And with a copy to:

Send Rent payments to.

William (= Hill 900 Malore | arm Lanc Belton, KY 42324

Site Number 91 V6711 Site Nume fars is Market Usuraville

- 13. Quiet Enjoyment, Uile and Authority. As of the Effective Date and at all times during the Initial Term and any Renewal Terms of this Lease. Landlord covenants and warrants to Jenant that (i) Landlord has full right power and authority to execute and perform this Lease; (ii) Landlord has good and unencombered fee title to the Property free and clear of any liens or mortgages, except those heretofore disclosed in writing to fenant and which will not interfere with Tenant's rights to or use of the Premises; (iii) execution and performance of this Lease will not violate any laws, ordinances, covenants, or the provisions of any mortgage, lease, or other agreement binding on Landlord; and (iv) Tenant's quiet enjoyment of the Premises or any part thereof shall not be disturbed as long as Tenant is not in default beyond any applicable grace or cure period.
- 14. <u>Environmental Laws</u>—Landlord represents that it has no knowledge of any substance, chemical or waste (collectively, "Hazardous Substance") on the Property that is identified as hazardous to do or dangerous in any applicable federal, state or local law or regulation—Landlord and Lenant shall not introduce or use any Hazardous Substance on the Property in violation of any applicable law—Landlord shall be responsible for, and shall promptly conduct any investigation and remediation as required by any applicable environmental laws, all spills or other releases of any Hazardous Substance and caused solely by Tenant, that have occurred or which may occur on the Property—Lach party agrees to defend, indemnify and hold harmless the other from and against any and all administrative and judicial actions and tulings claims causes at action, demands and liability (collectively, "Claims") including, but not lumited to damages costs, expenses assessments, penaltics, fines, losses, judgments and reasonable attorney fees that the indemnitice may suffer or incur due to the existence of any Hazardous Substances on the Property or the migration of any Hazardous Substances on the Property or the release of any Hazardous Substances on the Property or the release of any Hazardous Substance into the convironment (collectively, "Actions"), that relate to or arise from the indemnitor's activities on the Property. Landlord agrees to defend indemnity and hold Tenant harmless from Claims resulting from Actions on the Property not caused by Landlord or Tenant prior to and during the Initial Term and any Renewal Term—The indemnifications in this section specifically include, without limitation, costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal or restoration work required by any governmental authority. This Section 14 shall survive the termination or expiration of this Lease.
- 15. Assignment and Subleasing. Tenant shall have the right to assign or otherwise transfer this Lease and the Lasements (as defined above) granted herein upon written notice to Landlord. Upon such assignment. Fenant shall be relieved of all liabilities and obligations hereunder and Landlord shall look solely to the assignee for performance under this Lease and all obligations hereunder. Tenant may sublease the Premises, upon written notice to Landlord.

Landlord shall have the right to assign or otherwise transfer this Lease and the Fasements granted herein, upon written notice to Lenant except for the following: any assignment or transfer of this Lease which is separate and distinct from a transfer of Landlord's entire right, title and interest in the Property—shall require the prior written consent of Lenant which may be withheld in Lenant's sole discretion. Upon Lenant's receipt of (i) an executed deed or assignment and (ii) an IRS Lorin W-9 from assignee, and subject to Lenant's consent, it required. Landlord shall be reflected of all liabilities and obligations hereunder and Lenant shall look solely to the assignee for performance under this Lease and all obligations hereunder.

Additionally, notwithstanding anything to the contrary above, Landlord or Tenant may, upon notice to the other, grant a security interest in this Lease fund as regards the Tenant, in the Antenna Lacifities), and may collaterally assign this Lease (and as regards the Tenant, in the Antenna Lacifities) to any mortgagees or holders of security interests, including their successors or assigns (collectively "Secured Parties"). In such event, Landlord or Tenant, as the case may be shall execute such consent to leasehold financing as may reasonably be required by Secured Parties.

- 16. Suggessors and Assigns. This Lense and the Lusements granted herein shall run with the land, and shall be binding upon and inure to the benefit of the parties, then respective successors, personal representatives and assens.
- 17. Waiver of Landford's Lien. Fundiond hereby waives any and all lien rights it may have statutory or otherwise, concerning the Antenna Facilities of any portion thereof, which shall be deemed personal property for the purposes of this Lease, whether or not the same is deemed real or personal property under applicable laws, and Fandlord gives Tenani and Secured Parties the right to remove all or any portion of the same from time to time, whether before or after a default under this Lease, in Tenant's and/or Secured Party's sole discretion and without Landlord's consent.

#### 18 Miscellangous

- (a) The prevailing party in any litigation arising hereunder shall be entitled to reimbursement from the other party of its reasonable attorness' fees and court costs, including appeals, if any
- (b) This Lease constitutes the entire agreement and understanding of the parties, and supersedes all offers, negotiations and other agreements with respect to the subject matter and property covered by this Lease. Any amendments to this Lease must be in writing and executed by both parties.
- (c) I andford agrees to cooperate with Tenant in executing any documents necessary to profect Tenant's rights in or use of the Premises. A Memorandum of Lease in substantially the form attached hereto as I <u>xhibit</u> C may be recorded in place of this Lease by Tenant
- (d) In the event the Property is encumbered by a mortgage or deed of trust. Landlord agrees, upon request of Tenant, to obtain and furnish to Lenant a non-disturbance and attornment agreement for each such mortgage or deed of trust, in a form reasonably acceptable to Tenant
- (e) Lemmt may obtain title insurance on its interest in the Premises. I and/ord agrees to execute such documents as the title company may require in connection therewith

- (f) This Lease shall be construed in accordance with the laws of the state in which the Property is located, without regard to the conflicts of law principles of such state.
- (g) If any term of this Lease is found to be void or invalid, the remaining terms of this Lease shall continue in full force and effect. Any questions of particular interpretation shall not be interpreted against the drafter, but rather in accordance with the fair meaning thereof. No provision of this Lease will be deemed waived by either party unless expressly waived in writing by the waiving party. No waiver shall be implied by delay or any other act or omission of either party. No waiver by either party of any provision of this Lease shall be deemed a waiver of such provision with respect to any subsequent matter relating to such provision.
- (h) The persons who have executed this Lease represent and warrant that they are duly authorized to execute this Lease in their individual or representative capacities as indicated
- (i) This Lease may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute a single instrument.
- (j) All Exhibits referred to herein and any Addenda are incorporated herein for all purposes. The parties understand and acknowledge that Exhibits A and B may be attached to this Lease and the Memorandium of Lease, in preliminary form. Accordingly, the parties agree that upon the preparation of final, more complete exhibits. Exhibits A and/or B, as the case may be, may be replaced by Tenant with such final, more complete exhibits).
- (k) If either party is represented by any broker or any other leaving agent, such party is responsible for all commission fee or other payment to such agent, and agrees to indemnify and hold the other party barndess from all claims by such broker or anyone claiming through such broker.

The effective date of this Lease is the date of execution by the last party to sign (the "liffective Date").

LANDLORD:	William (= 16ff		
By Printed Name: Fitte Date	Eulliam & Hill William & Hill Cwaer II, 10		
FENANT:	Powertel Memphis, Inc		
By:	AND THE RESERVE OF THE PROPERTY OF THE PROPERT		
Printed Name:	Tami Nystron		
Litte	Area Director of Engineering		
Date			
I-Mobile Legal	Approva!		

#### EXHIBIT A Legal Description

#### The Property is legally described as follows:

Beginning at a new corner in an old line where it intersects with the northeast right-of-way of Highway #601, and running with the old line N 47-00 L 345.94 feet* to an original corner, thence \$\times 59-30 E 1435 feet* to an original corner, thence N 46-00 E 500 feet* to an original corner located behind the metal building, thence \$ 51 E 640 feet* to an original corner in Gardner Stovall's line, (Tract #8, Deed Book 209, Page 535); thence N 49-49 E. 376.09 feet* to an original corner; thence N 25-13 E 279.15 feet* (old deed gave bearing as N 53-23 B) to a stake on the west side of the old County House Road, (now known as the Nebo Cemetery Road); thence running with the right-of-way in a southerly direction 1080 feet, more or less, to a new corner located in the center of a ditch, where said ditch intersects the west right-of-way of the Nebo Cemetery Road, thence with a new division line running in a westerly direction with the center line of said ditch 1080 feet, more or less, to a new corner, located north of a line extended from sence line and three feet west of the fence line; thence running with a new line (three feet west and parallel with the fence) 500 feet, more or less, to a new corner in the northeast right-of-way of Highway #601; thence running with the highway right-of-way in a westerly direction 125 feet, more or less, to a new corner in the old Gibbs line, new Creek Oil Company, thence running with the Creek Oil Company's line N 6 E 250 feet to an original corner, thence continuing with their line N 25 W 98 feet to an original corner; thence continuing with their line N 84 W 600 feet, more or less, to an original corner in Rolly's line, thence running with the division line between Stovall and the following lot owners: Rolley (Deed Book 406, Page 631), Hall (Deed ); Lewis (Deed Book 406, Page 119 or Deed Book 358, Page ., Page 405), Stewart (Deed Book 358, Page 131 or Deed Book 369, Page 371); Stewart (Deed

Book 300, Page 335 or Deed Book 369, Page 371); Realous (Deed Book ______, Page ______); Faith (Deed Book 312, Page 166); Groves (Deed Book 404, Page 2630), Jones (Deed Book 350, Page 177), [all of which lots were originally deeded to the above or their predecessors in title by Gardner Stovall and Kendrick S. Stovall and are identified in the PVA Office as Map #73, Lots #69-75] to the northeast right-of-way of Highway #601; thence with the said right-of-way to the point of beginning

The only minerals which the Parties of the First Part owns are the oil and gas, which mineral rights are conveyed, all other the minerals having been reserved by Sentry Royalty Company and are excepted

This property is subject to right-of-way easements in favor of Muhlenberg County Water District, Kentucky Utilities Company and South Central Bell, as same affects the above described property, including an easement to Kentucky Utilities recorded in D B 442, Page 664

Being the same property conveyed from Kendrick S. Stovall, widow, to Tommy Piper and wife, Brenda G. Piper, or survivor, by deed dated July 1, 1992 and recorded in the office of the Muhlenberg County Clerk in Deed Book 414, page 335.

#### EXHIBIT B

The location of the Premises within the Property (together with access and utilities) is more particularly described and depicted as follows:

(Enter Premises description here or on attachment(s) [

EXHIBIT C

Memorandum of Lease

#### MEMORANDUM OF LEASE

Assessor's Parcel Number: 090-00-00-013-003 Between William C. (fill. ("Landlord") and Powertel Memphis, Inc. ("Tenant")

A Site Lease with Option (the "Lease") by and between William C. Hill an individual ("Landlord") and Powertel Memphis. Inc., a Delaware corporation ("Lenant") was made regarding a portion of the following property:

See Attached Exhibit "A" incorporated berein for all purposes

The Option is for a term of twelve (12) months after the f flective Date of the Lease (as defined under the Lease), with up to one additional twelve (12) month (enewal ("Optional Period")

The Lease is for a term of five (5) years and will commone on the date as set forth in the Lease (the "Commonement Date"). Tenant shall have the right to extend this Lease for five (5) additional and successive five-year terms.

IN WITNESS WHEREOF the parties hereto have respectively executed this memorandum effective as of the date of the last party to sign.

Hş.	Angelia and the control of the contr
Printed Name:	
Litte	The second section of the second seco
Pate	
TENANT:	Powertel Memphis, Inc
B <u>v</u> :	
Printed Name	Lami Nystroju
Fide.	Area Director of Lagineering
Date:	
Printed Moone	

LANDLORD: William t Hill

#### [Notary block for Landlord]

[Landlord Notary block for an Indivi	idual
STATE OF	)
COUNTY OF	) ss.
This instrument was acknowle	ledged before me on by William C. Hill
Dated:	N =,
	Notary Public
	Print Name My commission expires
(Use this space for notary stamp/scal)	

1

Site Number 91 VII/11 Site Scime Juryis Market Louissille

#### [Notary block for Tenant]

STATE OF	)
	) ss
COUNTY OF	
that he sinned this instrument, on oath s	factory evidence that Tami Nystrom is the person who appeared before me, and said person acknowledged mated that he was authorized to execute the instrument and acknowledged it as the Area Director of Delaware corporation, to be the free and voluntary act of such party for the uses and purposes mentioned
Dated.	
tid at he have have a suppressed to the suppress	
	Notary Public
	Print Name
	My commission expires
A CONSISTENCE OF THE PROPERTY SHOWS A SECOND CONTRACT OF THE PROPERTY OF THE P	
(Use this space for notary stamp/scal)	

#### Memorandum of Lease Exhibit A Legal Description

#### The Property is legally described as follows:

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## ADDENDUM TO SITE LEASE WITH OPTION [Additional Terms]

In the event of conflict or inconsistency between the terms of this Addendum and this Lease, the terms of the Addendum shall govern and control. All capitalized terms shall have the same meaning as in this Lease.

Paragraph I will be defeted and replaced with the following,

#### 4 Rent

- (a) From and after the Commencement Date. Fenant shall pay Fandlord or designee, as rent.

  per year ("Rent") The first payment of Rent shall be due within twenty (20) days following—the Commencement Date and thereafter Rent will be payable annually in advance on each anniversary of the Commencement date to Fandlord at the address specified in Section 12 below—If this Fease is terminated for any reason (other than a default by Fenant). Rent shall be prorated as of the date of termination and all prepaid Rent shall be immediately refunded to Fenant.
- (b) During the Initial Ferm and any Renewal Ferms, annual Rent shall be adjusted, on each anniversary of the Commencement date, to an amount equal to One Hundred and Three percent (103%) of the annual Rent in effect immediately prior to the adjustment date.

William C 11ill
En Man & Hill William & Hill Owner
Powertel Memphis. Inc
Tami Nystrom Area Director of Engineering

#### Identity and Qualifications of each Person Directly Responsible for the Design of the Wireless Communication Facility

Frank L. Sellinger Licensed Professional Land Surveyor (KY Lic. #3282)

Jeremy Potts, Construction Manager Mittrex Engineering

Richard A. Linker, P.E., Geotechnical Engineer Licensed Professional Engineer (KY Lic. #16420)

Timothy L. Hardy, P.E., Structural Engineer Registered Professional Engineer (KY Lic. #20374)

Ta-Wen Lee, P.E., Design Engineer Licensed Professional Engineer (KY Lic. #24589)

Timothy L. Hardy, P.E., A & E Engineer Registered Professional Engineer (KY Lic. #20374)

Buford H. Evans, Jr., P.E., Foundation Engineer Licensed Professional Engineer (KY Lic. #19839)

3209502_1.doc

Notice List T-Mobile/Muhlenberg #2 ("Jarvis") 2020 Highway 601 Greenville, KY 42345 Map 90, Parcel 13.003

# ALL PROPERTIES WITHIN 500 FEET OF TOWER SITE OR CONTIGUOUS TO PROPERTY ON WHICH TOWER IS TO BE LOCATED

Map 90, Parcels 39.005, 39.006 Wesley K. & Cynthia L. Harper 1705 Nebo Cemetery Rd. Greenville, KY 42345

Map 91-1, Parcel 002 Raymond W. McDonald 110 North Park Dr. Greenville, KY 42345

Map 73, Parcel 071
Billie Faith
2365 State Rt. 601
Greenville, KY 42345

Map 73, Parcel 073.02 Marty Daniel & Ronda Sue Lewis 2253 State Rt. 601 Greenville, KY 42345

Map 73, Parcel 76 Carl T. Steele, Jr. 236 N. Cherry St. Greenville, KY 42345

Map 74, Parcel 021 Gayle Baggett 2877 U.S. Hwy. 62 W Greenville, KY 42345

#### **GOVERNMENT OFFICIAL:**

Map 90, Parcel 13.002 Jeffrey G. & Sheri Clark 1825 Nebo Cemetery Road Greenville, KY 42345

Map 90, Parcels 39.007, 39.008 & 39.009, & 39.010
William C. Hill
900 Malone Farm Lane
Belton, KY 42324

Map 73, Parcel 069
Terry Lynn & Shelba Jones
2421 State Rt. 601
Greenville, KY 42345

Map 73, Parcel 072 Mary Lewis 2315 State Rt. 601 Greenville, KY 42345

Map 73, Parcel 074
David Wayne & Diana Shadowen
810 Locketown Rd.
Graham, KY 42344

Map 73, Parcel 76-01 Jace Slaughter 1950 U.S. Hwy. 62 W Greenville, KY 42345

Commonwealth of Kentucky Office of Attorney General Capital Bldg., Ste. 118 700 Capital Avenue Frankfort, KY 40601

Hon. Rick Newman Muhlenberg County Judge Executive P.O. Box 137 Greenville, KY 42345 Map 90, Parcels 39.001, 39.002, 39.003 & 39.004

Mark Edward & Melissa Thompson 1755 Nebo Cemetery Rd. Greenville, KY 42345

Map 91-1, Parcel 001 Orville Wayne & Carolyn Fairchild 111 Nelson Lane Greenville, KY 42345

Map 73, Parcel 070 Vickie Lynn Groves 2405 State Rt. 601 Greenville, KY 42345

Map 73, Parcels 073 & 073.01 David & Peggy Piper 2281 State Rt. 601 Greenville, KY 42345

Map 73, Parcel 075
Gerald Ray Brooks, Jr. and
Rhonda Brooks
2183 State Rt. 601
Greenville, KY 42345

Map 73, Parcel, 038 Carl T. Steele 236 N. Cherry St. Greenville, KY 42345



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 90, Parcel 13.002 Jeffrey G. & Sheri Clark 1825 Nebo Cemetery Road Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

This notice is being sent to you because the Muhlenberg County Property Valuation Administrator's records indicate that you may own property that is within 500' of the proposed tower site or contiguous to the property on which the tower is to be located. You have a right to submit testimony to the PSC in writing, or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602, Phone: (502) 564-3940. Please refer to Docket Number 2009 – 00021 in your correspondence or telephone calls.

We have attached a map showing the site location for the proposed tower. T-Mobile's radio frequency engineers assisted in selecting the proposed site for the tower, based on location and elevation needed to improve coverage and to provide quality service to wireless communications customers in this area. Please feel free to contact me at (502) 587-3655 with any comments or questions.

Sincerely,

Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 90, Parcels 39.001, 39.002, 39.003 & 39.004 Mark Edward & Melissa Thompson 1755 Nebo Cemetery Rd. Greenville, KY 42345

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Sincerely,

Paul B. Whitty

Caulsmith

Attorney for T-Mobile

PBW/abf



January 22, 2009

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Paul B. Whitty

Coulsmitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 90, Parcels 39.007, 39.008 & 39.009, & 39.010 William C. Hill 900 Malone Farm Lane Belton, KY 42324

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

Gaulsmithy

PBW/abf



January 22, 2009

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Map 91-1, Parcel 001 Orville Wayne & Carolyn Fairchild 111 Nelson Lane Greenville, KY 42345

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Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

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Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 91-1, Parcel 002 Raymond W. McDonald 110 North Park Dr. Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

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Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

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Paul B. Whitty

Attorney for T-Mobile

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PBW/abf

Enclosure 3204039 1 doc



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 069 Terry Lynn & Shelba Jones 2421 State Rt. 601 Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

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Paul B. Whitty

Attorney for T-Mobile

Joulsmithy

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 070 Vickie Lynn Groves 2405 State Rt. 601 Greenville, KY 42345

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Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

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Paul B. Whitty

Attorney for T-Mobile

Cauls mutty

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 071 Billie Faith 2365 State Rt. 601 Greenville, KY 42345

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Dear Neighbor:

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This notice is being sent to you because the Muhlenberg County Property Valuation Administrator's records indicate that you may own property that is within 500' of the proposed tower site or contiguous to the property on which the tower is to be located. You have a right to submit testimony to the PSC in writing, or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602, Phone: (502) 564-3940. Please refer to Docket Number 2009 – 00021 in your correspondence or telephone calls.

We have attached a map showing the site location for the proposed tower. T-Mobile's radio frequency engineers assisted in selecting the proposed site for the tower, based on location and elevation needed to improve coverage and to provide quality service to wireless communications customers in this area. Please feel free to contact me at (502) 587-3655 with any comments or questions.

Sincerely,

Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 072 Mary Lewis 2315 State Rt. 601 Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcels 073 & 073.01 David & Peggy Piper 2281 State Rt. 601 Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty

Cauls Multy

Attorney for T-Mobile

PBW/abf

Enclosure 3204039 Ldoc



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 073.02 Marty Daniel & Ronda Sue Lewis 2253 State Rt. 601 Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 074 David Wayne & Diana Shadowen 810 Locketown Rd. Graham, KY 42344

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 76 Carl T. Steele, Jr. 236 N. Cherry St. Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

Gaul & Whitly

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel 76-01 Jace Slaughter 1950 U.S. Hwy. 62 W Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

laul & Mitty

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 73, Parcel, 038 Carl T. Steele 236 N. Cherry St. Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Sincerely,

Paul B. Whitty / Attorney for T-Mobile

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Map 74, Parcel 021 Gayle Baggett 2877 U.S. Hwy. 62 W Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

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Sincerely,

Paul B. Whitty

Attorney for T-Mobile

Gaul & Mitty

PBW/abf



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Commonwealth of Kentucky - Office of Attorney General Capital Bldg., Ste. 118
700 Capital Avenue
Frankfort, KY 40601

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Neighbor:

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Sincerely,

Paul B. Whitty

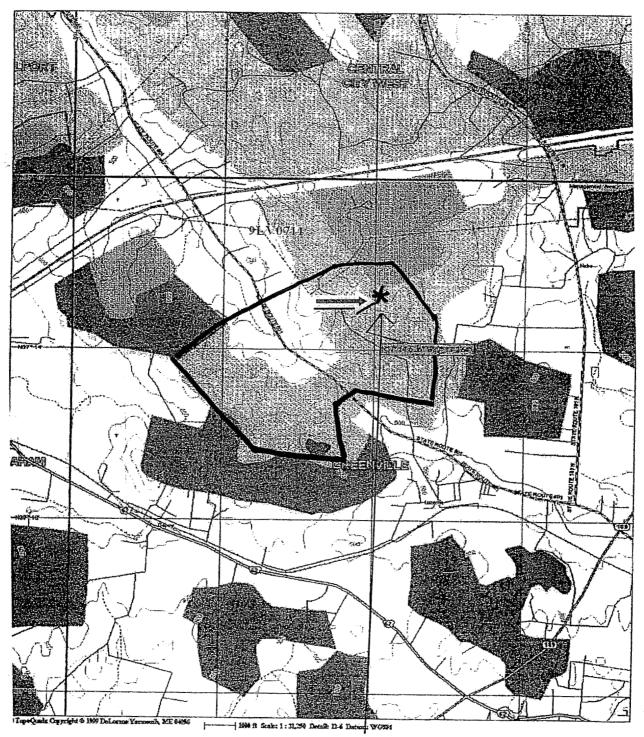
Attorney for T-Mobile

Joulsmith

PBW/abf

## $\mathbf{T} \cdot \mathbf{Mobile}$ MAP FROM RF SHOWING SEARCH AREA WITH CANDIDATE DEPICTED

9LU0711



8550 West Bryn Mawr, Chicago, IL 60631



January 22, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED
Hon. Rick Newman
Muhlenberg County Judge Executive
P.O. Box 137
Greenville, KY 42345

RE: Notice of Proposed Construction of Wireless Communications Facility

Site Name: Jarvis/9LV0711A

Site Address: 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345

Docket No. 2009 - 00021

#### Dear Judge Newman:

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky ("T-Mobile") has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on property located at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky 42345. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

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Paul B. Whitty

Attorney for T-Mobile

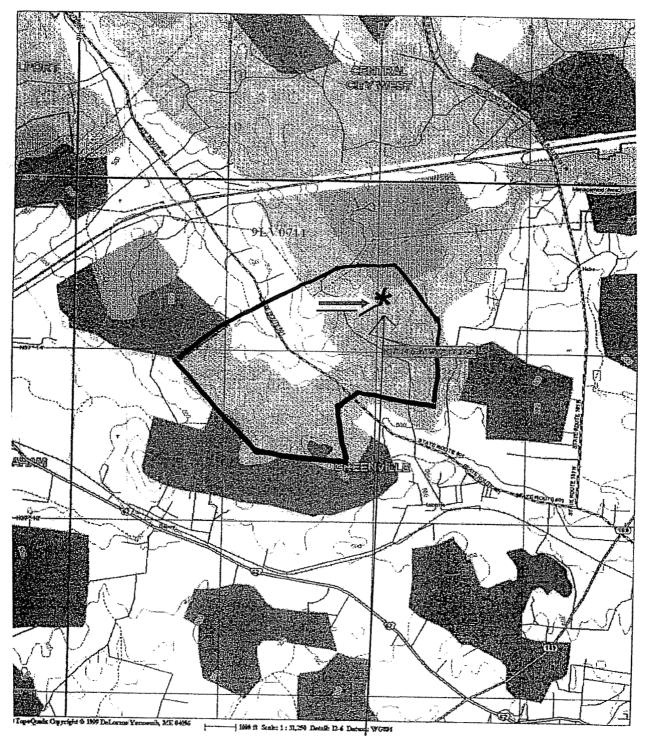
(Janes Mutty

PBW/abf Enclosure

3204045_1 doc

# $T\cdot \text{Mobile} \cdot$ map from RF showing search area with candidate depicted

9LU4711



Site: 2020 Highway Gol Greenville Ky 42345

Muhlenberg County

8550 West Bryn Mawr, Chicago, IL 60631

# SITE NAME: JARVIS 2020 Highway 601 Greenville, Kentucky 42345

### **NOTICE SIGNS**

The signs are to be at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "tower" which is at least (4) inches in height.

Sign to be posted on site:

Powertel/Memphis Inc. d/b/a T-Mobile Kentucky proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Paul B. Whitty, Greenebaum Doll & McDonald, PLLC, 3500 National City Tower, Louisville, Kentucky 40202, (502) 587-3655, or the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky, 40602, (502) 564-3940. Please refer to Docket Number 2009 – 00021 in your correspondence or telephone calls.

Sign to be posted on nearest public road:

Powertel/Memphis Inc. d/b/a T-Mobile Kentucky proposes to construct a telecommunications **tower** near this site. If you have questions, please contact Paul B. Whitty, Greenebaum Doll & McDonald, PLLC, 3500 National City Tower, Louisville, Kentucky 40202, (502) 587-3655, or the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky, 40602, (502) 564-3940. Please refer to Docket Number 2009 – 00021 in your correspondence or telephone calls.

#### Tharp, Theresa A.

From: Tharp, Theresa A.

Sent: Wednesday, January 21, 2009 11:20 AM

To: 'ads@ky-leadernews.com'

Subject: Legal Ad for T-Mobile for the Leader News (Muhlenberg #2)

Please place the following legal ad in the Leader News. We would like for the ad to run on Tuesday, January 27, 2009.

Powertel Memphis, Inc. d/b/a T-Mobile Kentucky proposes to construct a telecommunications tower at 2020 Highway 601, Greenville, Muhlenberg County, Kentucky. For questions or comments please contact Paul Whitty, Attorney, Greenebaum Doll & McDonald, PLLC, 3500 National City Tower, Louisville, Kentucky 40202; or Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to Docket Number 2009-00021 in your correspondence.

Please let me know immediately what the cost of this ad will be so that I may make arrangements for payment.

We will need proof of publication, and ask that you send same to me at the address shown below.

Thank you for your assistance with this matter.

Theresa A. Tharp

Paralegal

Greenebaum Doll & McDonald, PLLC

3500 National City Tower

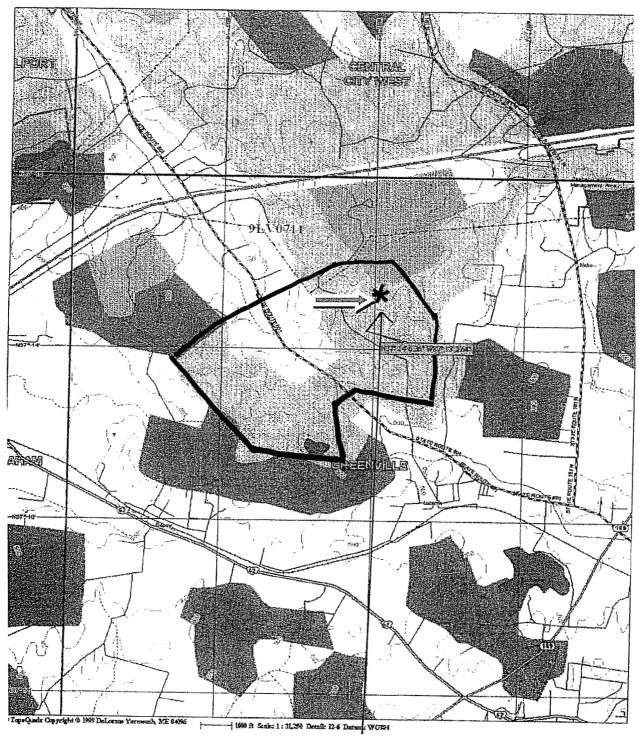
Louisville, KY 40202

Office: (502) 587-3748 Fax: (502) 540-2291 Cell: (502) 541-8212

Email: tae@gdm.com

## T. Mobile. MAP FROM RF SHOWING SEARCH AREA WITH CANDIDATE DEPICTED

9LU0711



Site: 2020 Highway 601 Coreenville Ky 42345

Muhlenberg County

8550 West Bryn Mawr, Chicago, IL 60631