



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

March 23, 2009

VIA HAND DELIVERY

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

RECEIVED

MAR 23 2009

PUBLIC SERVICE
COMMISSION

RE: Application to Construct Wireless Communications Facility
Location: 80 Parkway Lane, Central City, Muhlenberg County, Kentucky 42330
Applicant: Powertel/Memphis Inc. d/b/a T-Mobile Kentucky
Site Name: Monsanto Haul Road
Case No.: 2009-00022

Dear Mr. Gatewood:

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.

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 Kentucky

PBW/abf

Enclosures

3309257_1.doc

**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 80 PARKWAY LANE,)	2009-00022
CENTRAL CITY, KENTUCKY 42330 IN THE)	
WIRELESS COMMUNICATIONS LICENSE AREA)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF MUHLENBERG)	

SITE NAME: MONSANTO HAUL ROAD

**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 80 Parkway Lane, Central City, Kentucky 42330 (37°18'48.67" North latitude,

87°03'08.32" 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 Gary L. and Cheryl Russ pursuant to a Deed recorded at Deed Book 476, Page 692 in the office of the Muhlenberg County Clerk. The proposed WCF will consist of a 250-foot tall tower, with a 5-foot 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

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 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 four existing residential structures located within a 500-foot radius of the proposed tower location, one of which is on the host site owned by the Lessor. See additional information at **Exhibit F**.

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 co-location 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**.

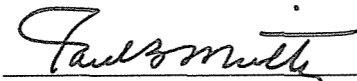
27. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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
Facsimile: (502) 540-2260
pbw@gdm.com

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

Delaware

PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF 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.

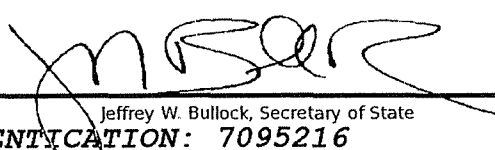
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY, A.D. 2006, AT 12:30 O'CLOCK A.M.

2447268 8100M

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


Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 7095216

DATE: 01-22-09

**STATE OF DELAWARE
CERTIFICATE OF MERGER OF
DOMESTIC CORPORATIONS**

Pursuant to Title 8, Section 251(c) of the Delaware General Corporation Law, the undersigned corporation executed the following Certificate of Merger:

FIRST: The name of the surviving corporation is Powertel/Memphis, Inc.
_____, and the name of the corporation being merged into this surviving corporation is Powertel/Kentucky, Inc.
_____.

SECOND: The Agreement of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations.

THIRD: The name of the surviving corporation is Powertel/Memphis, Inc.
_____ a Delaware corporation.

FOURTH: The Certificate of Incorporation of the surviving corporation shall be its Certificate of Incorporation.

FIFTH: The merger is to become effective on January 1, 2006 at 12:30 a.m.

SIXTH: The Agreement of Merger is on file at _____
12920 SE 38th Street, Bellevue, WA 98006, the place of business of the surviving corporation.

SEVENTH: A copy of the Agreement of Merger will be furnished by the surviving corporation on request, without cost, to any stockholder of the constituent corporations.

IN WITNESS WHEREOF, said surviving corporation has caused this certificate to be signed by an authorized officer, the 15th day of December, A.D.,
2005.

By: /s/ David A. Miller
Authorized Officer

Name: David A. Miller
Print or Type

Title: Senior Vice President

Delaware

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The First State

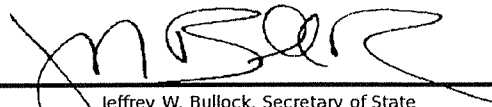
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "POWERTEL/KENTUCKY, INC.", FILED IN THIS OFFICE ON THE TWENTY-FIFTH DAY OF JULY, A.D. 1997, AT 9 O'CLOCK A.M.

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


Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 7095212

DATE: 01-22-09

CERTIFICATE OF INCORPORATION
OF
POWERTEL/KENTUCKY, INC.

1. NAME

The name of this corporation is Powertel/Kentucky, Inc. (the "Corporation").

2. REGISTERED OFFICE AND AGENT

The registered office of the Corporation shall be located at 1013 Centre Road, Wilmington, Delaware 19805 in the County of New Castle. The registered agent of the Corporation at such address shall be Corporation Service Company.

3. PURPOSE AND POWERS

The purpose of the Corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware (the "Delaware General Corporation Law"). The Corporation shall have all power necessary or helpful to engage in such acts and activities.

4. CAPITAL STOCK

4.1. Authorized Shares

The total number of shares of all classes of stock that the Corporation shall have the authority to issue is One Thousand (1,000) shares of voting common stock, all of one class, having a par value of \$.01 per share ("Common Stock").

4.2. Common Stock

4.2.1. Relative Rights

Each share of Common Stock shall have the same relative rights as and be identical in all respects to all the other shares of Common Stock.

4.2.2. Dividends

Whenever there shall have been paid, or declared and set aside for payment, to the holders of shares of any class of stock having preference over the Common Stock as to the payment of dividends, the full amount of dividends and of sinking fund or retirement payments, if any, to which such holders are respectively entitled in preference to the Common Stock, then dividends may be paid on the Common Stock and on any class or series of stock entitled to participate therewith as to dividends, out of any assets legally available for the payment of dividends thereon, but only when and as declared by the Board of Directors of the Corporation.

4.2.3. Dissolution, Liquidation, Winding Up

In the event of any dissolution, liquidation, or winding up of the Corporation, whether voluntary or involuntary, the holders of the Common Stock shall become entitled to participate in the distribution of any assets of the Corporation remaining after the Corporation shall have paid, or set aside for payment, to the holders of any class of stock having preference over the Common Stock in the event of dissolution, liquidation or winding up the full preferential amounts (if any) to which they are entitled.

4.2.4. Voting Rights

Each holder of shares of Common Stock shall be entitled to attend all special and annual meetings of the stockholders of the Corporation and, share for share and without regard to class, together with the holders of all other classes of stock entitled to attend such meetings and to vote (except any class or series of stock having special voting rights), to cast one vote for each outstanding share of Common Stock so held upon any matter or thing (including, without limitation, the election of one or more directors) properly considered and acted upon by the stockholders.

5. INCORPORATOR; INITIAL DIRECTORS

5.1. Incorporator

The name and mailing address of the incorporator (the "incorporator") is Jill F. Dorsey, Vice President/General Counsel, Powertel Inc., 1233 O.G. Skinner Dr., West Point, GA 31833. The powers of the Incorporator shall terminate upon the filing of this Certificate of Incorporation.

5.2. Initial Directors

The following persons, having the following mailing addresses, shall serve as the directors of the Corporation until the first annual meeting of the stockholders of the Corporation or until their successors are elected and qualified:

NAME	MAILING ADDRESS
Fred G. Astor, Jr.	1233 O.G. Skinner Dr. West Point, Georgia 31833
Allen E. Smith	1233 O.G. Skinner Dr. West Point, Georgia 31833
Michael P. Tatom	1233 O.G. Skinner Dr. West Point, Georgia 31833

6. BOARD OF DIRECTORS

6.1. Number; Election

The number of directors of the Corporation shall be such number as from time to time shall be fixed by, or in the manner provided in, the bylaws of the Corporation. Unless and except to the extent that the bylaws of the Corporation shall otherwise require, the election of directors of the Corporation need not be by written ballot.

6.2. Limitation of Liability

No director of the Corporation shall be liable to the Corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, provided that this provision shall not eliminate or limit the liability of a director (a) for any breach of the director's duty of loyalty to the Corporation or its stockholders; (b) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law; (c) for the types of liability set forth in Section 174 of the Delaware General Corporation Law; or (d) for any transaction from which the director received any improper personal benefit.

7. INDEMNIFICATION

To the extent permitted by law, the Corporation shall fully indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding (whether civil, criminal, administrative or investigative) by reason of the fact that such person is or was a director or officer or employee or agent of the Corporation, or is or was serving at the request of the Corporation as a director or officer or employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding.

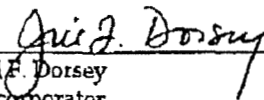
The Corporation shall advance expenses (including attorneys' fees) incurred by a director or officer in advance of the final disposition of such action, suit or proceeding upon the receipt of an undertaking by or on behalf of the director or officer to repay such amount if it shall ultimately be determined that such director or officer is not entitled to indemnification.

The Corporation shall advance expenses (including attorneys' fees) incurred by an employee or agent in advance of the final disposition of such action, suit or proceeding upon such terms and conditions, if any, as the Board of Directors deems appropriate.

8. AMENDMENT OF BYLAWS

In furtherance and not in limitation of the powers conferred by the Delaware General Corporation Law, the Board of Directors of the Corporation is expressly authorized and empowered to adopt, amend and repeal the bylaws of the Corporation.

IN WITNESS WHEREOF, the undersigned, being the Incorporator hereinabove named, for the purpose of forming a corporation pursuant to the Delaware General Corporation Law, hereby certifies that the facts hereinabove stated are truly set forth, and accordingly executes this Certificate of Incorporation as of this 25 day of July, 1997.



Jill F. Dorsey
Incorporator

Delaware

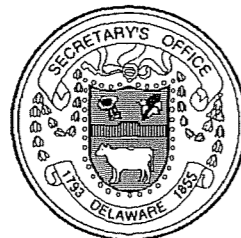
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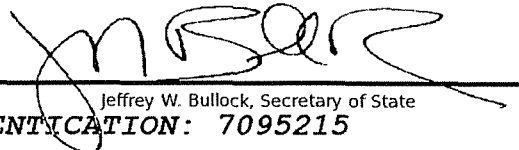
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "INTERCEL MEMPHIS MTA, INC.", CHANGING ITS NAME FROM "INTERCEL MEMPHIS MTA, INC." TO "POWERTEL/MEMPHIS, INC.", FILED IN THIS OFFICE ON THE SEVENTEENTH DAY OF JULY, A.D. 1996, AT 9 O'CLOCK A.M.

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Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 7095215

DATE: 01-22-09

**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:

FIRST: 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 "Powertel/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 amendment be submitted to the sole stockholder of the Corporation for consideration, action 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:

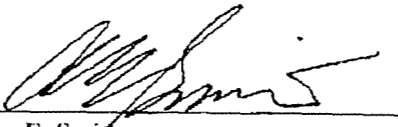
"FIRST. The name of the corporation is
Powertel/Memphis, Inc. (the "Corporation")."

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 name change and the aforesaid amendment to the Certificate of Incorporation of the Corporation to reflect such name change.

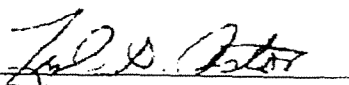
FOURTH: That the aforesaid amendment to the Certificate of Incorporation of the Corporation was duly adopted in accordance with the provisions of Sections 141(f), 228, 229 and 242 of the General Corporation Law of the State of Delaware.

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, Jr., its Secretary, on July 9, 1996.

By: 
Allen E. Smith
President

Attest:


Fred G. Astor, Jr.
Secretary

Delaware

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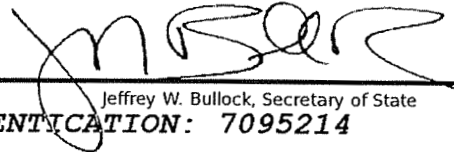
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "SOUTH ATLANTIC PCS CORPORATION", CHANGING ITS NAME FROM "SOUTH ATLANTIC PCS CORPORATION" TO "INTERCEL MEMPHIS MTA, INC.", FILED IN THIS OFFICE ON THE TWENTIETH DAY OF FEBRUARY, A.D. 1996, AT 9:05 O'CLOCK A.M.

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


Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 7095214

DATE: 01-22-09

4

**CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
SOUTH ATLANTIC PCS CORPORATION**

South Atlantic PCS Corporation (the "Corporation"), a corporation organized and existing under the General Corporation Law of the State of Delaware, does hereby certify as follows:

FIRST: 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 "InterCel Memphis MTA, 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 amendment be submitted to the sole stockholder of the Corporation for consideration, action 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:

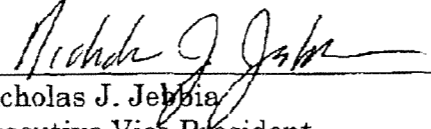
"FIRST. The name of the corporation is InterCel Memphis MTA, Inc. (the "Corporation")."

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 name change and the aforesaid amendment to the Certificate of Incorporation of the Corporation to reflect such name change.

FOURTH: That the aforesaid amendment to the Certificate of Incorporation of the Corporation was duly adopted in accordance with the provisions of Sections 141(f), 228, 229 and 242 of the General Corporation Law of the State of Delaware.

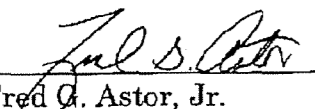
FIFTH: That upon this Certificate of Amendment of Certificate of Incorporation becoming effective, the name of the Corporation shall be changed to "InterCel Memphis MTA, Inc."

IN WITNESS WHEREOF, South Atlantic PCS Corporation has caused this Certificate of Amendment of Certificate of Incorporation to be signed by Nicholas J. Jebbia, its Executive Vice President, and attested by Fred G. Astor, Jr., its Secretary, on February 19, 1996.

By: 

Nicholas J. Jebbia
Executive Vice President

Attest:



Fred G. Astor, Jr.
Secretary

Delaware

PAGE 1

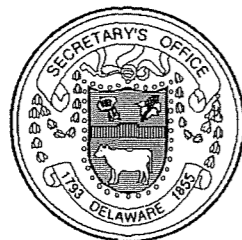
The First State


I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "SOUTH ATLANTIC PCS CORPORATION", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 1994, AT 9:30 O'CLOCK A.M.

2447268 8100

090058743

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




Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 7095213

DATE: 01-22-09

CERTIFICATE OF INCORPORATION
OF
SOUTH ATLANTIC PCS CORPORATION

* * * * *

FIRST. The name of the corporation is South Atlantic PCS Corporation (the "Corporation").

SECOND. The address of the registered office of the Corporation in the State of Delaware is 32 Lookerman Square, Suite L-100, in the City of Dover, Kent County, Delaware 19904. The name of its registered agent at such address is The Prentice-Hall Corporation System, Inc.

THIRD. The nature of the business or purposes to be conducted or promoted by the Corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware.

FOURTH. The total number of shares of stock which the Corporation shall have authority to issue is 1,000 shares of Common Stock with a par value of One Cent (\$.01) per share.

FIFTH. The Corporation is to have perpetual existence.

SIXTH. In furtherance and not in limitation of the powers conferred by the laws of the State of Delaware:

A. The Board of Directors of the Corporation is expressly authorized to adopt, amend or repeal the By-Laws of the Corporation.

B. Elections of directors need not be by written ballot unless the By-Laws of the Corporation shall so provide.

C. The books of the Corporation may be kept at such place within or without the State of Delaware as the By-Laws of the Corporation may provide or as may be designated from time to time by the Board of Directors of the Corporation.

SEVENTH. The Corporation eliminates the personal liability of each member of its Board of Directors to the Corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, provided, however, that, to the extent provided by applicable law, the foregoing shall not eliminate the liability of a director (i) for any breach of such director's duty of loyalty to the Corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of Title 8 of the Delaware Code or (iv) for any transaction from which such director derived an improper personal benefit. No amendment to or repeal of this provision shall apply to or have any effect on the liability or alleged liability of any director for or with respect to any acts or omissions of such director occurring prior to such amendment or repeal.

EIGHTH. The Corporation reserves the right to amend or repeal any provision contained in this Certificate of Incorporation, in the manner now or hereafter prescribed by statute, and all rights conferred upon a stockholder herein are granted subject to this reservation.

NINTH. The name and mailing address of the sole incorporator is as follows:

<u>Name</u>	<u>Mailing Address</u>
Suanne M. Garnier	Testa, Hurwitz & Thibeault 53 State Street Boston, MA 02109

I, THE UNDERSIGNED, being the sole incorporator hereinabove named, for the purpose of forming a corporation pursuant to the General Corporation Law of the State of Delaware, do make this certificate, hereby declaring and certifying that this is my act and deed and the facts herein stated are true, and accordingly have hereunto set my hand this 26th day of October, 1994.



Suanne M. Garnier
Sole Incorporator

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
Radio Service: CW - PCS Broadband	

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

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

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

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.

GENERAL NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE COUNTY OF MUHLENBURG 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.

SITE DEVELOPMENT PLANS FOR POWERTEL / MEMPHIS, INC.

SITE #: 9LV0726A

SITE NAME: MONSANTO HAUL ROAD

SITE ADDRESS: 80 PARKWAY LANE

CENTRAL CITY, KENTUCKY 42330

SIGNATURE AUTHORIZATIONS:

RF ENGINEER APPROVAL: _____ DATE: _____
 SIGNATURE _____

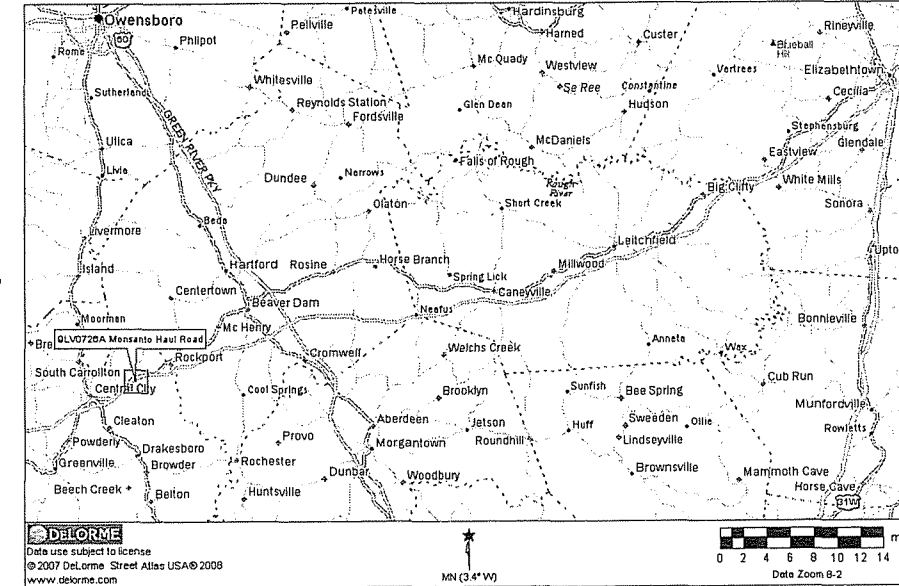
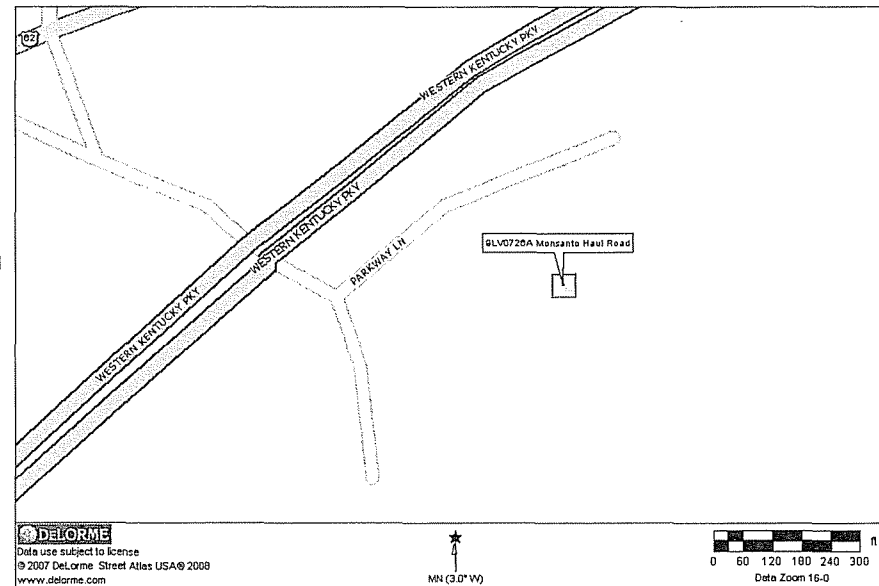
CONSTRUCTION MANAGER APPROVAL: _____ DATE: _____
 SIGNATURE _____

SITE ACQUISITION AGENT APPROVAL: _____ DATE: _____
 SIGNATURE _____

LAND OWNER APPROVAL: _____ DATE: _____
 SIGNATURE _____

OPS APPROVAL: _____ DATE: _____
 SIGNATURE _____

ZONING/PERMITTING APPROVAL: _____ DATE: _____
 SIGNATURE _____



VICINITY MAP

NOT TO SCALE

DIRECTIONS:

FROM ELIZABETHTOWN, KY., GO WEST ON WESTERN KENTUCKY PARKWAY TO EXIT 58 (HWY 431). TURN RIGHT ON HWY 431 AND GO TO HWY 62. TURN RIGHT ON HWY 62 AND FOLLOW IT TO HOWERTON ROAD. TURN RIGHT ON HOWERTON ROAD AND GO TO PARKWAY LANE. TURN LEFT ON PARKWAY LANE AND THE SITE IS AT THE END OF THE PAVEMENT ON THE LEFT.

SURVEY COORDINATES:
 LATITUDE: 37° 18' 48.67"
 LONGITUDE: -87° 03' 08.32"
 GROUND ELEV: 461' AMSL



ELECTRIC CO.:
 KENTUCKY UTILITIES
 CONTACT CUSTOMER SERVICE
 PHONE: (800) 981-0600

TELEPHONE CO.:
 AT & T

PERMIT JURISDICTION:
 MUHLENBURG COUNTY

LESSOR:
 GARY RUSS
 80 PARKWAY LANE
 CENTRAL CITY, KENTUCKY 42330
 PHONE: (270) 543-3734
 EMAIL: G_Russ@MUHLON.COM

LESSEE:

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

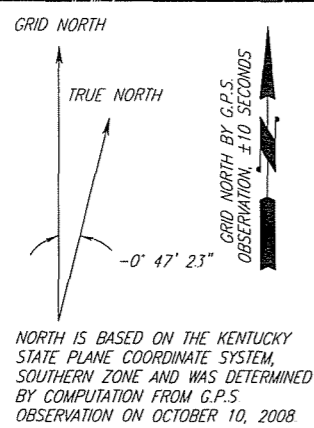
ENGINEER:

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

	INDEX:	REV.:	DATE:
T1	TITLE SHEET		
	SURVEY		
C0	GRADING PLAN		
C1	OVERALL SITE LAYOUT		
C1.5	DETAILED SITE LAYOUT		
C2	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		

SHEET 1
 S1 1 - VICINITY AND 500' STRUCTURAL MAP
 S1 2 - ABUTTING PROPERTY OWNERS
 S1 3 - U.S.G.S QUAD MAP

SHEET 2
 S2 1 - PROPOSED LEASE AREA
 S2 2 - LEGAL DESCRIPTIONS
 S2 3 - FLOOD ZONE DATA



SURVEYORS NOTES
 SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 10, 2008.
 SOURCE OF ROTATION BASED ON THE EAST PROPERTY LINE OF THE RUSS PROPERTY HAVING THE BEARING OF S 11° 47' 48" E PER D.B. 476, P.G. 692, AND THE CALCULATED BEARING OF S 11° 01' 37" E
 SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT
 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.

UNDERGROUND UTILITIES
 CALL 2 WORKING DAYS BEFORE YOU DIG
 INDIANA 1-800-382-5544
 KENTUCKY 1-800-752-6007
 UTILITIES PROTECTION SERVICE
 NON-MEMBERS MUST CALL DIRECTLY
 The utility information shown on this plat, prepared by FSTAN was obtained from existing records and or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.

LEGAL DESCRIPTIONS:
 This is a description for T-Mobile, of an area to be leased from the property of Gary L. & Cheryl Russ, which is further described as follows

PROPOSED LEASE AREA
 Beginning at an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the Northwest corner of the property conveyed to Gary L. & Cheryl Russ, in Deed Book 476, Page 692, in the Office of the County Clerk of Muhlenburg County, Kentucky, being S 70°04'59" W - 76.36' to an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the North corner of the said Russ property, thence N 70°04'59" E - 15.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 18°58'25" E - 152.40' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Proposed Lease Area, thence N 83°15'16" E - 29.77' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 18°58'25" E - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 83°15'16" W - 40.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 18°58'25" W - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 83°15'16" E - 10.23' to a set #5 rebar with a cap stamped "FSTAN #3282" and the true point of beginning containing 2,345.55 square feet as per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated October 23, 2008, revised October 28, 2008

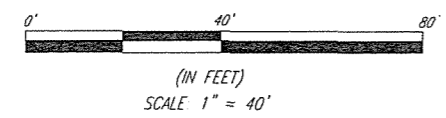
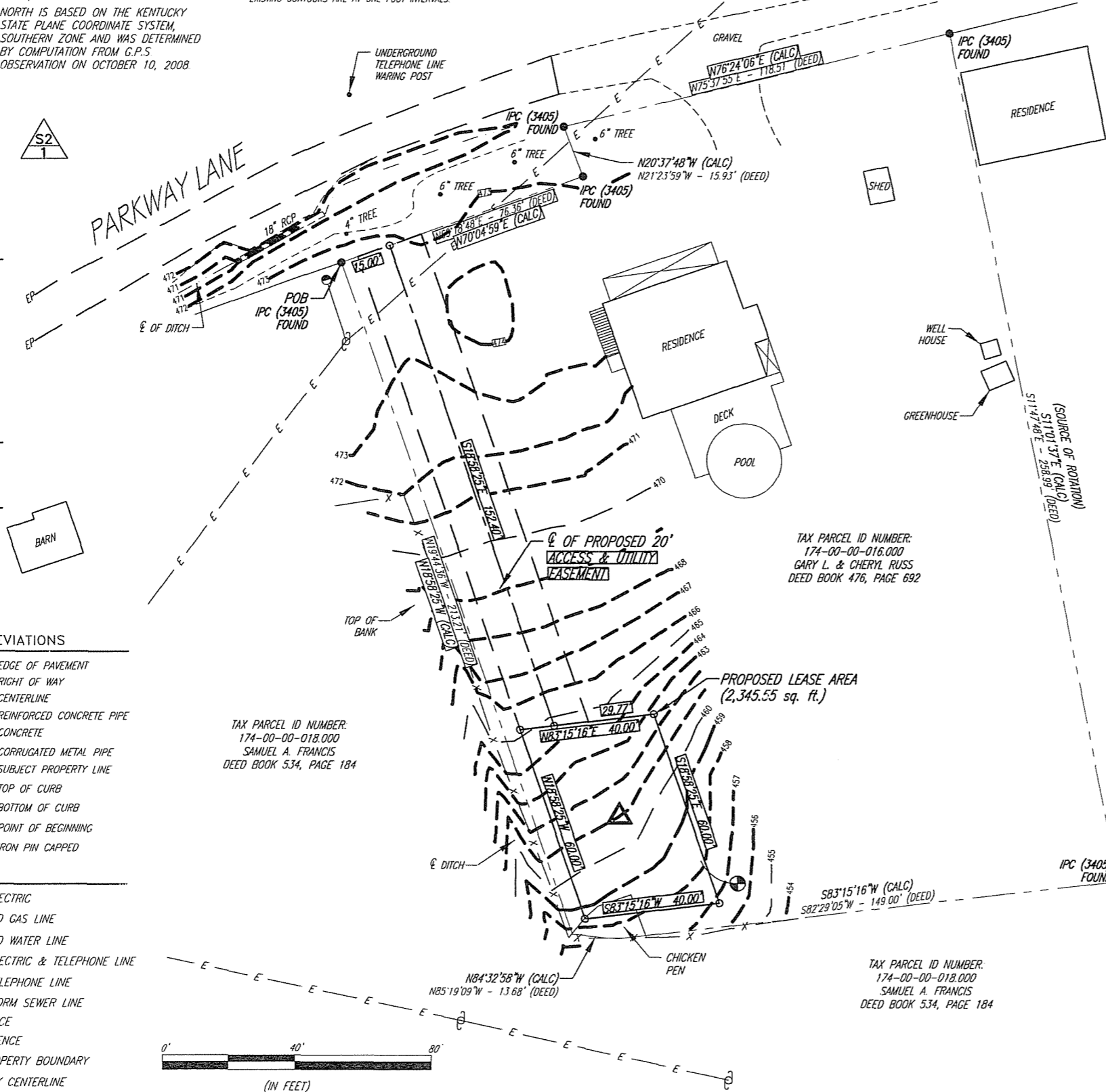
CENTERLINE OF PROPOSED 20' ACCESS & UTILITY EASEMENT
 Beginning at an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the Northwest corner of the property conveyed to Gary L. & Cheryl Russ, in Deed Book 476, Page 692, in the Office of the County Clerk of Muhlenburg County, Kentucky, being S 70°04'59" W - 76.36' to an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the North corner of the said Russ property, thence N 70°04'59" E - 15.00' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Centerline of the Proposed 20' Access & Utility Easement, thence S 18°58'25" E - 152.40' to a set #5 rebar with a cap stamped "FSTAN #3282" 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 23, 2008, revised October 28, 2008

COORDINATE POINT LOCATION
 NAD 1983
 LATITUDE: 37° 18' 48.67"
 LONGITUDE: 87° 03' 08.32"
 NAVD 1988
 ELEVATION: 461' AMSL
 STATE PLANE COORDINATE SOUTHERN ZONE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NORTHING: 1999900.4519
 EASTING: 1261699.5058

PROJECT POWER POLE
 UTILITY COMPANY: UNKNOWN
 IDENTIFICATION #: N/A

PROJECT BENCHMARK
 NORTH: 1999887.1819
 EAST: 1261723.5821
 ELEVATION: 458.21' AMSL
 LOCATION: BEING A SET IPC LOCATED AT THE SOUTHEAST CORNER OF THE LEASE AREA

SYMBOL LEGEND		ABBREVIATIONS	
	WOOD POWER POLE	EP	EDGE OF PAVEMENT
	TELEPHONE PEDESTAL	ROW	RIGHT OF WAY
	GUY ANCHOR	CL	CENTERLINE
	MANHOLE	RCP	REINFORCED CONCRETE PIPE
	WATER VALVE	CONC	CONCRETE
	WATER METER	CMP	CORRUGATED METAL PIPE
	FIRE HYDRANT	R	SUBJECT PROPERTY LINE
	ELECTRIC BOX	TC	TOP OF CURB
	F.P. FENCE POST	BC	BOTTOM OF CURB
	SET #5 REBAR (UNLESS OTHERWISE NOTED)	POB	POINT OF BEGINNING
	EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)	IPC	IRON PIN CAPPED
LINE LEGEND			
	OVERHEAD ELECTRIC		
	UNDERGROUND GAS LINE		
	UNDERGROUND WATER LINE		
	OVERHEAD ELECTRIC & TELEPHONE LINE		
	OVERHEAD TELEPHONE LINE		
	DRAINAGE/STORM SEWER LINE		
	EXISTING FENCE		
	PROPOSED FENCE		
	SUBJECT PROPERTY BOUNDARY		
	RIGHT OF WAY CENTERLINE		
NOTE: SYMBOLS, ABBREVIATIONS, OR LINESYLES DO NOT NECESSARILY APPEAR ON DRAWING(S) USE ONLY AS APPLICABLE			



TAX PARCEL ID NUMBER:
 174-00-00-016.000
 GARY L. & CHERYL RUSS
 DEED BOOK 476, PAGE 692

TAX PARCEL ID NUMBER:
 174-00-00-017.000
 LUTHER & SHELLIE RUSS
 DEED BOOK 486, PAGE 633

PROPOSED LEASE AREA
 (2,345.55 sq. ft.)

LAND SURVEYOR'S CERTIFICATE
 Type "A" Survey - Unadjusted linear traverse closure: 1 in 48,967.
 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.

Frank L. Sellinger, II Ky. Reg. No 3282

REFERENCED AS "EXHIBIT C"

OWNER APPROVAL _____ DATE: _____
 T-MOBILE APPROVAL _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 210293 0050 B, 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"

FSTAN
 F.S. Land Company
 T. Alan Neal Company
 Land Surveyors and Consulting Engineers
 PO Box 17546 2313/2315 Crittenden Drive
 Louisville, KY 40217
 Phone: (502) 635-5866 (502) 636-5111
 Fax: (502) 636-5263

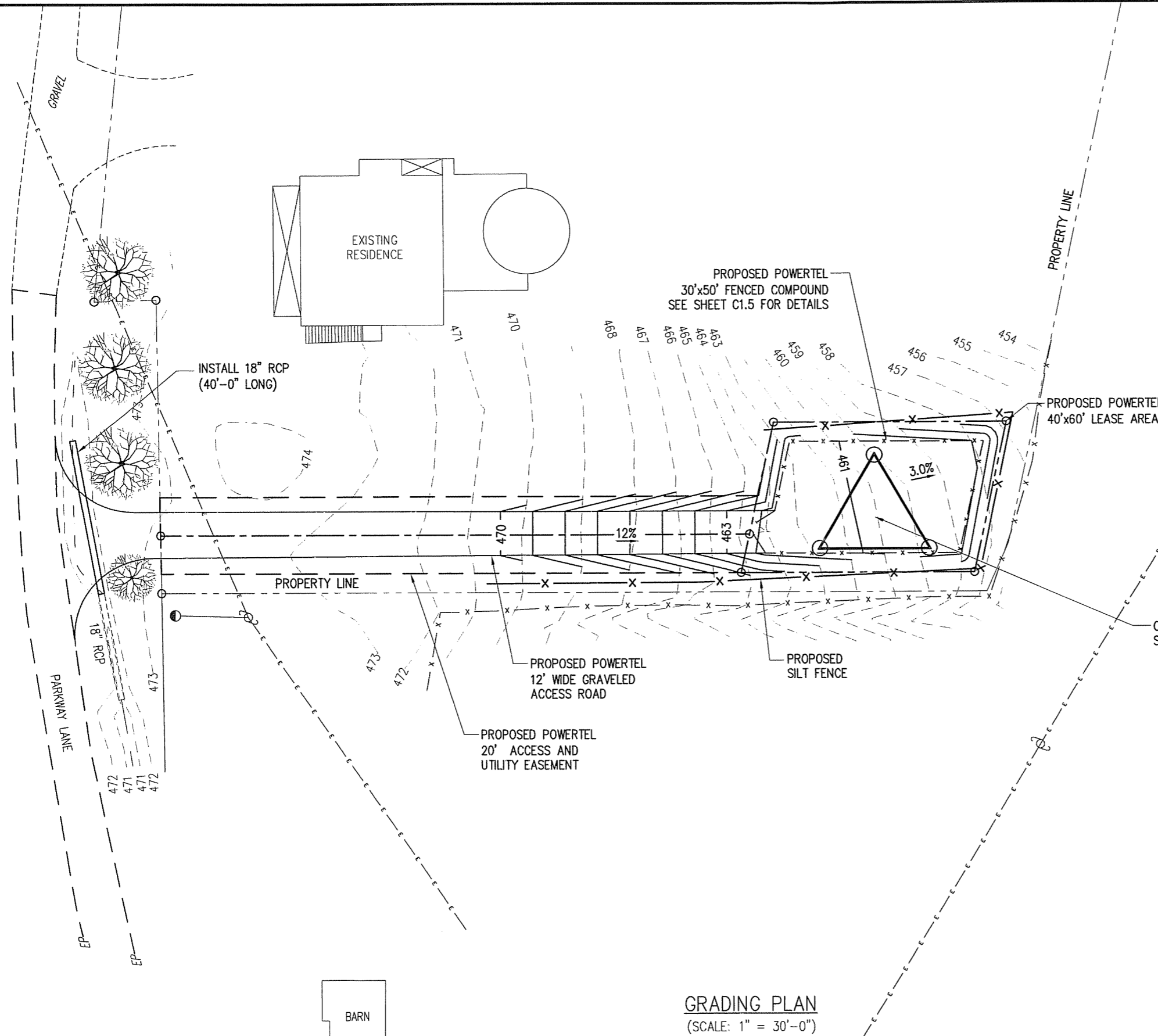
"SITE SURVEY"

SITE NUMBER: 9LV0726A
 SITE NAME: MONSANTO HAUL ROAD
 SITE ADDRESS: 160 PARKWAY LANE CENTRAL CITY, KY 42330
 PROPOSED T-MOBILE LEASE AREA: AREA = 2,345.55 sq. ft.
 PROPERTY OWNER: GARY L. & CHERYL RUSS 12349 U.S. HIGHWAY 62 E CENTRAL CITY, KY 42330
 TAX PARCEL ID NUMBER: 174-00-00-016.000
 SOURCE OF TITLE: DEED BOOK 476, PAGE 692
 DWG BY: CDT
 CHKD BY: FSII
 DATE: 10.20.08
 FSTAN PROJECT NO: 08-5670

REVISIONS:
 LEASE AREA - 10.28.08

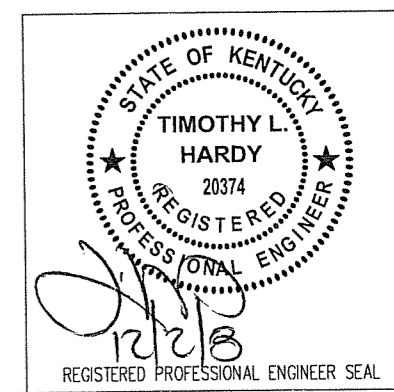
GRADING NOTES:

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH MUHLENBERG COUNTY REGULATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL TREES AND OBSTRUCTIONS INSIDE THE LEASE AREA AND ACCESS EASEMENT.
3. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS, AND WATERWAYS, USE SILT FENCE WHERE REQUIRED.
4. CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR PROVIDING SITE FREE OF DRAINAGE PROBLEMS.
5. 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.
6. CONTRACTOR SHALL GRADE SITE LEVEL AND SHALL MAINTAIN A MINIMUM OF 2 TO 1 SLOPE RUNOFF IMMEDIATE SITE AREA.
7. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES FOR CONSTRUCTION TO PREVENT THE DIVERSION OF SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
8. CONTRACTOR SHALL CLEAR ENTIRE ACCESS AND UTILITY EASEMENT OF OBSTRUCTIONS AS 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.



LEGEND	
	DRAINAGE FLOW LINE
	PROPOSED CONTOURS
	EXISTING CONTOURS
	CHAIN LINK FENCE
	SILT FENCE
	LEASE LINE

GRADING PLAN
(SCALE: 1" = 30'-0")



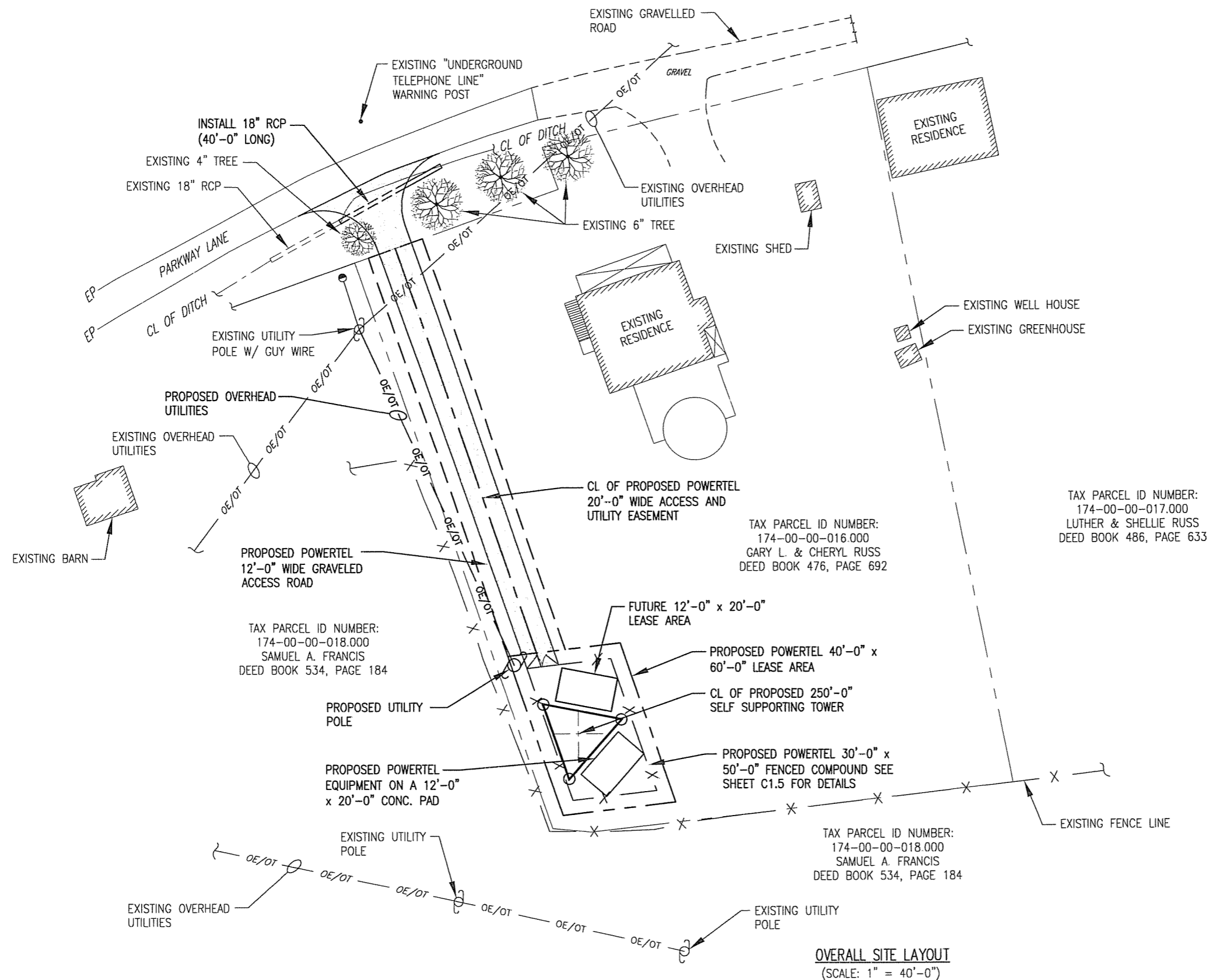
ITEM	REVISION	BY	CHK. BY	DATE

DRAWN BY:	A. KIRK	DATE:	11-17-08
CHECKED BY:	T.L. HARDY	DATE:	11-17-08
APPROVED BY:		DATE:	

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

SITE GRADING PLAN
9LV0726A SITE: MONSANTO HAUL ROAD
CENTRAL CITY, KENTUCKY
FOR
POWERTEL / MEMPHIS, INC.
LOUISVILLE, KENTUCKY

CAD No	LV0726_CO	SCALE	AS SHOWN	DWG No	CO
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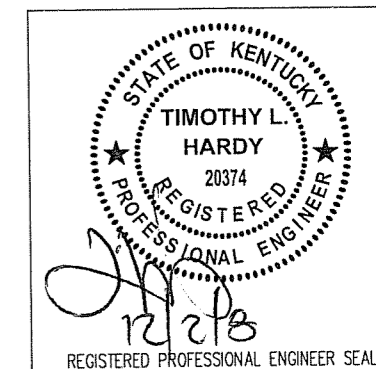
TAX PARCEL ID NUMBER:
174-00-00-017.000
LUTHER & SHELLIE RUSS
DEED BOOK 486, PAGE 633

TAX PARCEL ID NUMBER:
174-00-00-016.000
GARY L. & CHERYL RUSS
DEED BOOK 476, PAGE 692

TAX PARCEL ID NUMBER:
174-00-00-018.000
SAMUEL A. FRANCIS
DEED BOOK 534, PAGE 184

TAX PARCEL ID NUMBER:
174-00-00-018.000
SAMUEL A. FRANCIS
DEED BOOK 534, PAGE 184

OVERALL SITE LAYOUT
(SCALE: 1" = 40'-0")

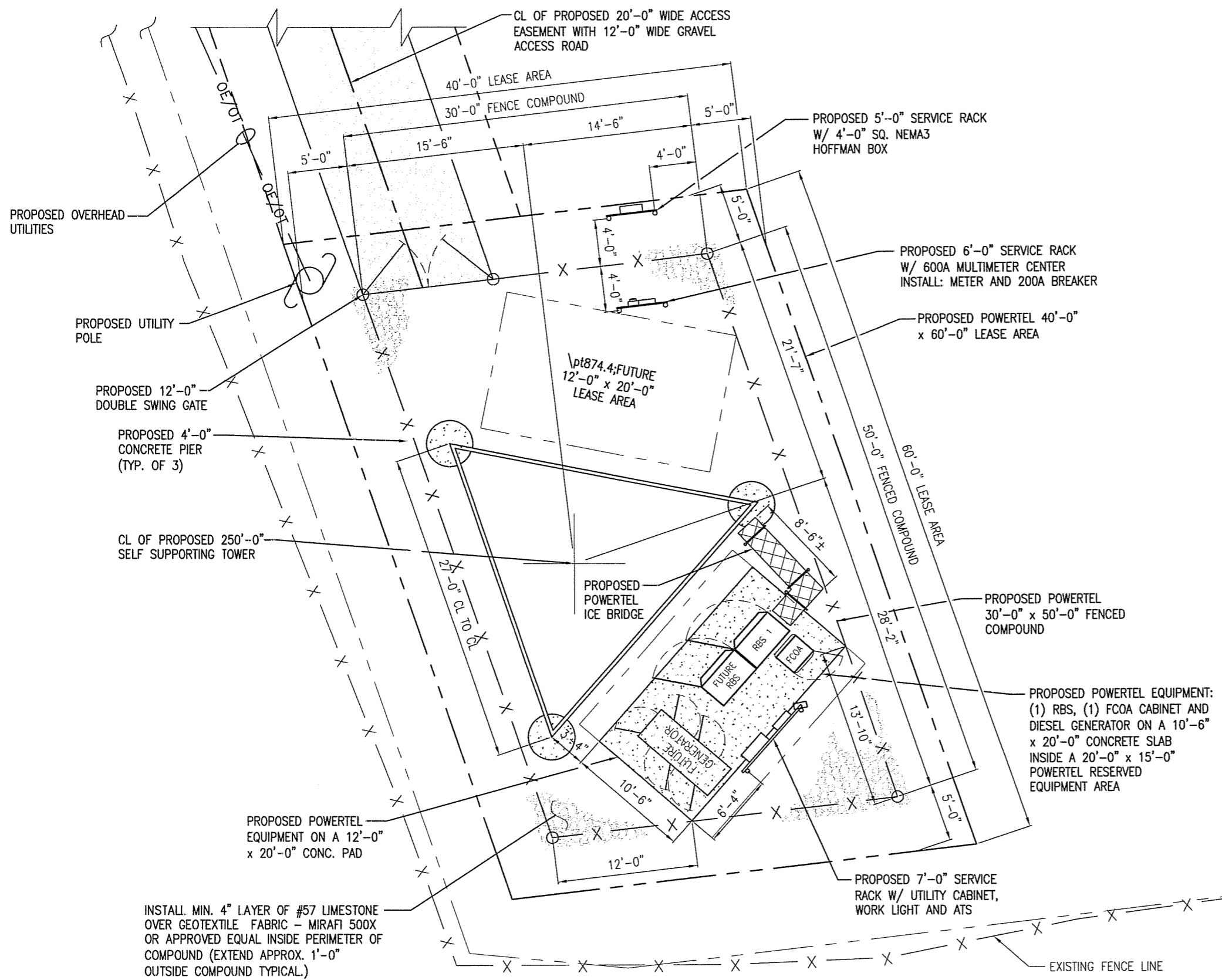


ITEM	REVISION	BY	CHK. BY	DATE

DRAWN BY:	J.E. STEGER	DATE:	11-17-08
CHECKED BY:	T.L. HARDY	DATE:	11-17-08
APPROVED BY:		DATE:	

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

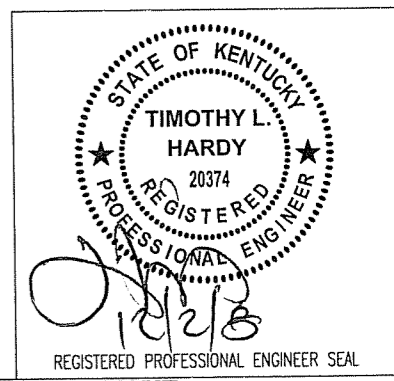
OVERALL SITE LAYOUT
9LV0726A SITE: MONSANTO HAUL ROAD
CENTRAL CITY, KENTUCKY
FOR
POWERTEL / MEMPHIS INC.
LOUISVILLE, KENTUCKY
SCALE: AS SHOWN
C1



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

NOTES:

1. BOUNDARY AND EXISTING SITE FEATURES ARE BASED ON FIELD MEASUREMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THIS DRAWING.
2. CONTRACTOR SHALL FURNISH ALL MATERIALS FOR 600 AMP SERVICE.
3. GROUNDING OF ANTENNAS MOUNTS, COAX, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH POWERTEL'S SPECIFICATIONS. COAX SHALL BE GROUNDED JUST BELOW ANTENNAS, AT MID-ELEVATION, AND AT BOTTOM OF TOWER.
4. SITE TO BE RESTORED BACK TO SITE OWNER'S SPECS.
5. ANY MATERIALS STORED ON SITE SHALL BE STORED IN CLOSED OR COVERED CONTAINERS AND ALL EXCESS WASTE MATERIALS WILL BE PROPERLY DISPOSED OF DAILY AND ALL SOILS REMOVED FROM SITE. NOTE NO BURNING ON SITE AT ANYTIME. ACCESS TO OTHER CUSTOMERS ON SITE MUST BE KEPT CLEAR.
6. ALL HARDWARE TO BE STAINLESS STEEL, NO PLATED METAL TO BE USED.
7. NO CULVERTS SHALL BE INSTALLED.
8. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION & MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS, AND WATERWAYS. SILT FENCE SHOULD BE INSTALLED AROUND WORK AREA TO STOP DAMAGE TO OTHER CUSTOMER'S EQUIPMENT.
9. CONTRACTOR AND/OR DEVELOPER ARE RESPONSIBLE FOR PROVIDING SITE FREE OF DRAINAGE PROBLEMS.
10. CONTRACTOR AND/OR DEVELOPER SHALL BE 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 (AMUTCO) EDITION. CONTRACTOR IS TO ADHERE TO ALL SAFETY GUIDELINES, AND OSHA SPECS WHILE ON WORK SITE.

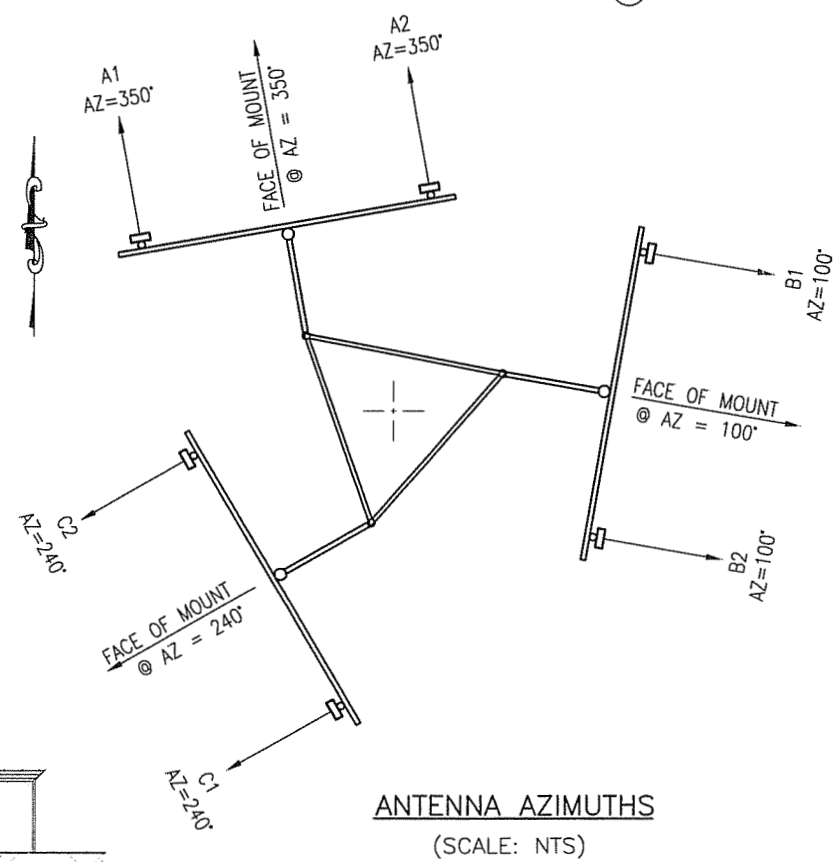
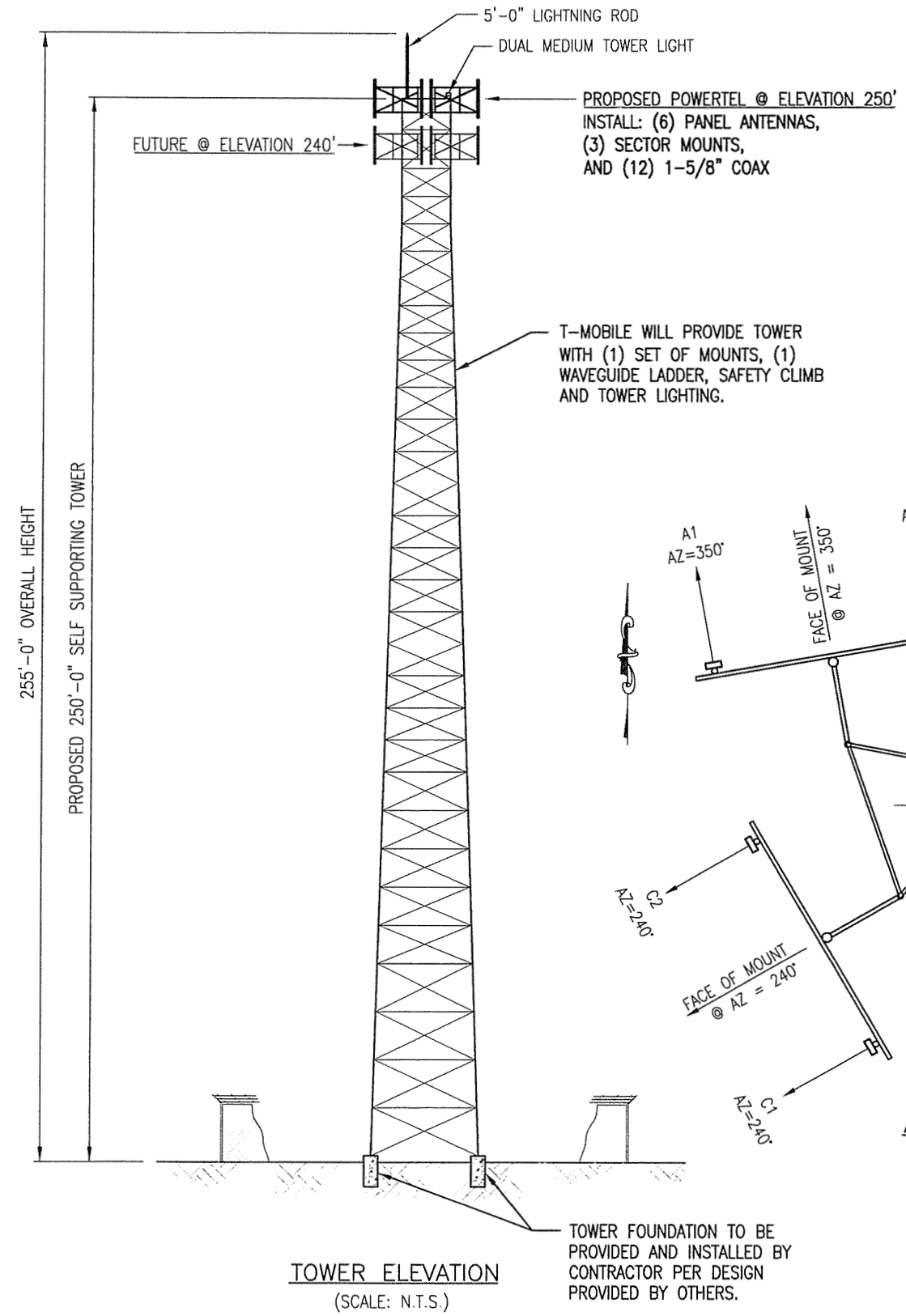


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY	J.E. STEGER	DATE	11-17-08
CHECKED BY	T.L. HARDY	DATE	11-17-08
APPROVED BY		DATE	

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

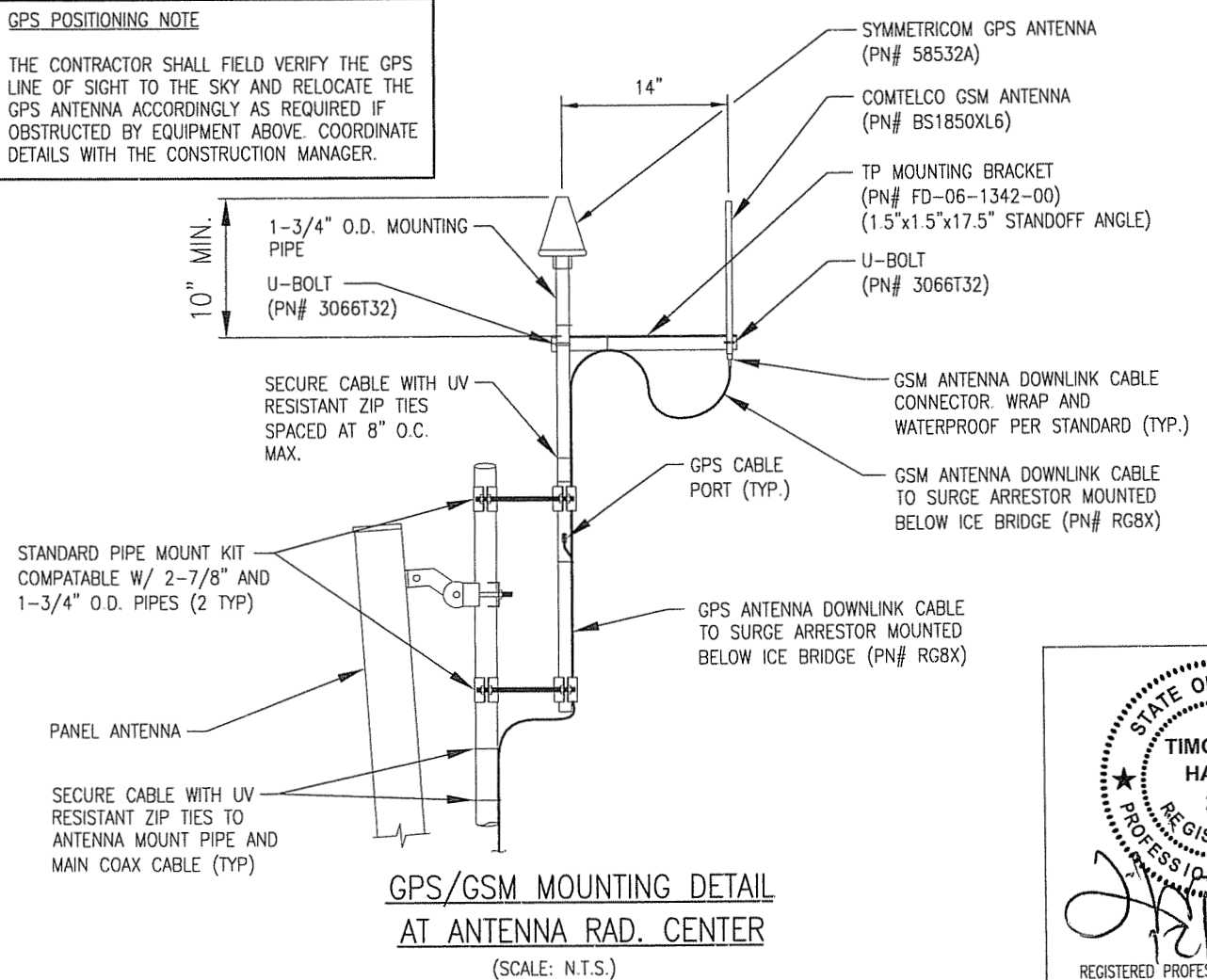
SITE LAYOUT			
9LV0726A SITE: MONSANTO HAUL ROAD CENTRAL CITY, KENTUCKY FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY			
CAD No	LV0726_C1.5	SCALE	AS SHOWN
DWG No			C1.5



ANTENNA AND COAX SCHEDULE									
ANTENNA MARK	SECTOR	ANTENNA ①	COAX FEED LOCATION	AZIMUTH (0° = NORTH)	COAX COLOR CODE	COAX CABLE SIZE	MECHANICAL DOWN TILT ②	ELECTRICAL DOWN TILT	RADIATION CENTER
A1	A	TMBX-6517-R2M	BOTTOM	350°	TX/RX - RED TX/RX - RED-GRAY	(4) 1 5/8"φ	0°	2'	250'
A2	A	TMBX-6517-R2M	BOTTOM	350°	TX/RX - RED-RED-GRAY TX/RX - RED-RED		0°	2'	250'
A3									
B1	B	TMBX-6517-R2M	BOTTOM	100°	TX/RX - BLUE TX/RX - BLUE-GRAY	(4) 1 5/8"φ	0°	2'	250'
B2	B	TMBX-6517-R2M	BOTTOM	100°	TX/RX - BLUE-BLUE-GRAY TX/RX - BLUE-BLUE		0°	2'	250'
B3									
C1	C	TMBX-6517-R2M	BOTTOM	240°	TX/RX - GREEN TX/RX - GREEN-GRAY	(4) 1 5/8"φ	0°	2'	250'
C2	C	TMBX-6517-R2M	BOTTOM	240°	TX/RX - GREEN-GREEN-GRAY TX/RX - GREEN-GREEN		0°	2'	250'
C3									

- ① FINAL ANTENNA TYPE TO BE DETERMINED BY POWERTEL, ANTENNAS TO BE PROVIDED BY POWERTEL AND INSTALLED BY CONTRACTOR.
- ② ALL ANTENNAS TO BE INSTALLED WITH DOWNTILT BRACKETS.
- ③ POWERTEL RESERVED LOADING: (9) ANTENNAS (AS SHOWN OR EQUIVALENT), (18) 1-5/8" COAX, (6) TMA'S

GPS POSITIONING NOTE
 THE CONTRACTOR SHALL FIELD VERIFY THE GPS LINE OF SIGHT TO THE SKY AND RELOCATE THE GPS ANTENNA ACCORDINGLY AS REQUIRED IF OBSTRUCTED BY EQUIPMENT ABOVE. COORDINATE DETAILS WITH THE CONSTRUCTION MANAGER.

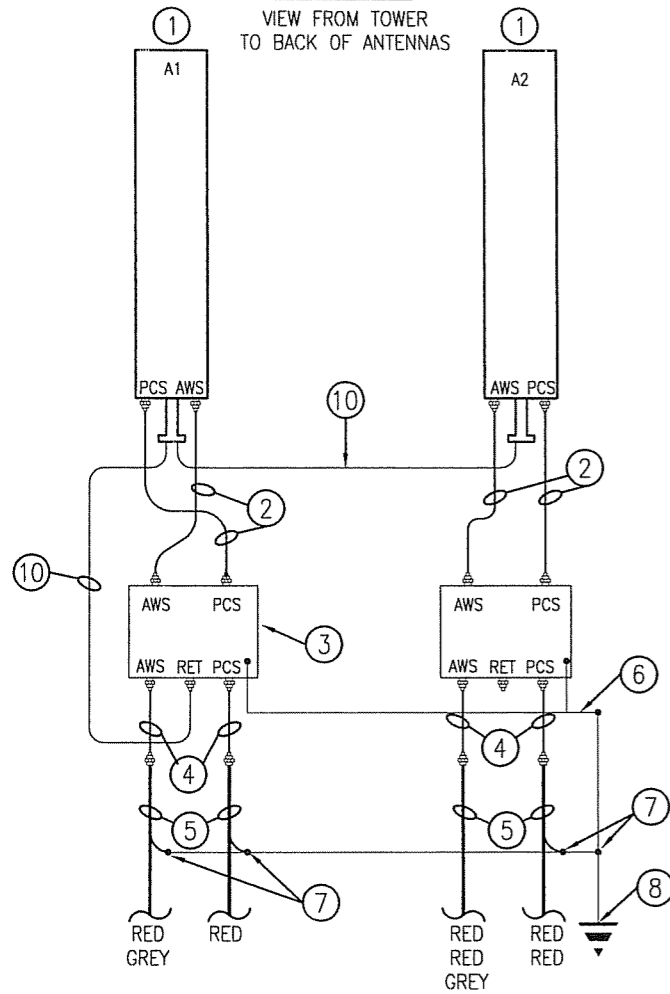


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY: J.E. STEGER DATE: 11-17-08	HARDY ENGINEERING, INC. ENGINEERING AND CONSULTING 209 LINDEN STREET, P.O. BOX 708 TRUSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-9027	Dwg NAME: TOWER ELEVATION 9LV0726A SITE: MONSANTO HAUL ROAD CENTRAL CITY, KENTUCKY FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY	
CHECKED BY: T.L. HARDY DATE: 11-17-08		CAD No: LV0726_C2	SCALE: AS SHOWN
APPROVED BY:		Dwg No: C2	

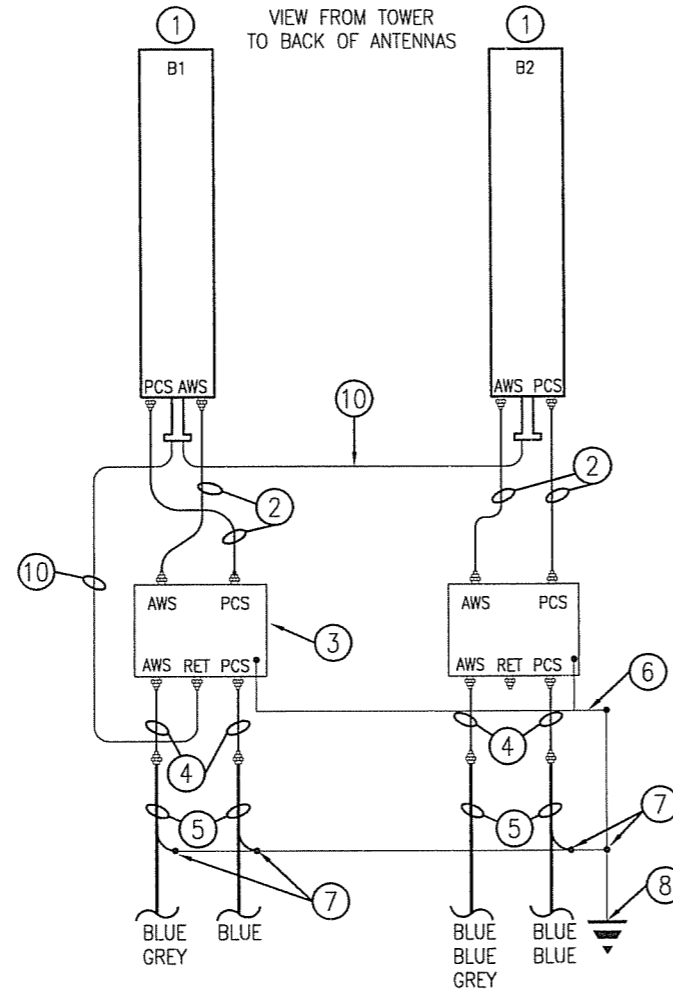
SECTOR A

VIEW FROM TOWER
TO BACK OF ANTENNAS



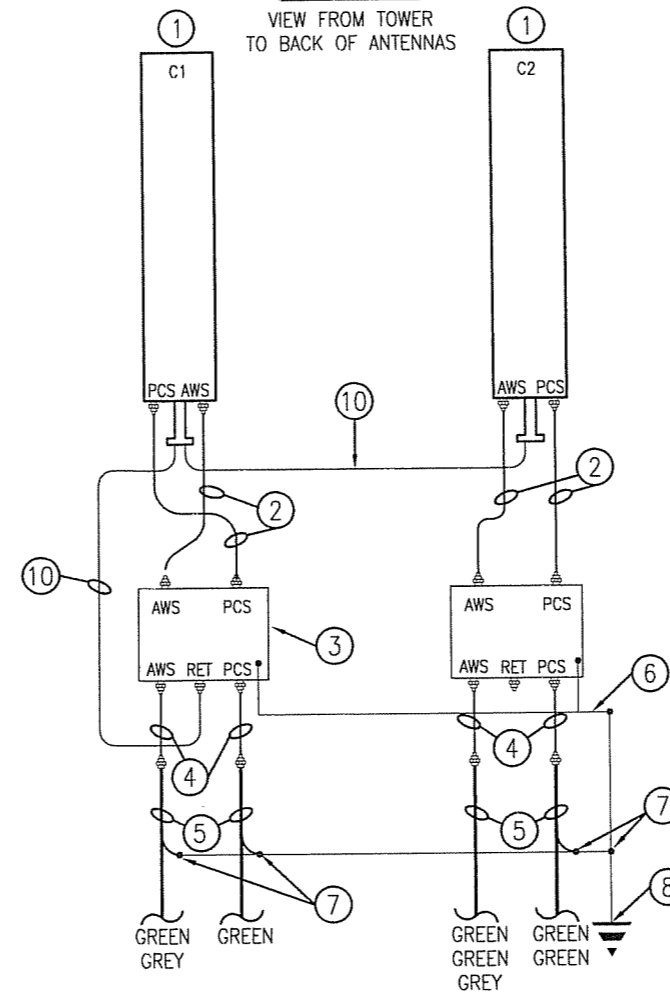
SECTOR B

VIEW FROM TOWER
TO BACK OF ANTENNAS



SECTOR C

VIEW FROM TOWER
TO BACK OF ANTENNAS

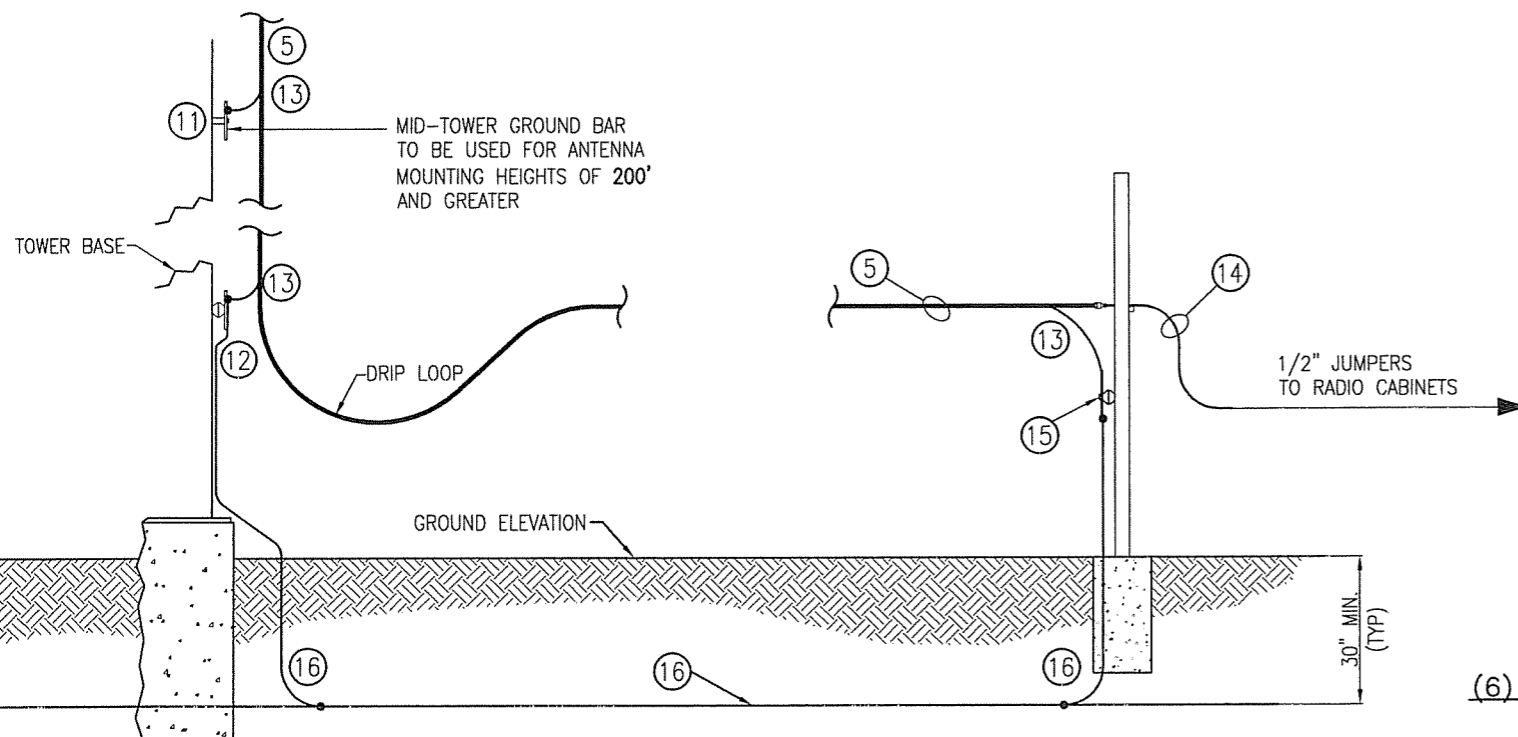


MATERIAL LIST

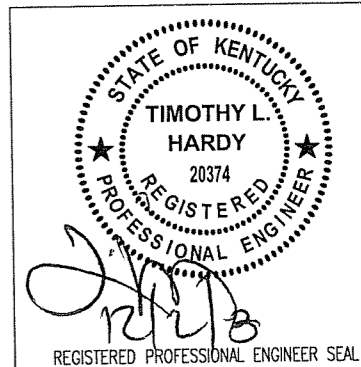
- ① PANEL ANTENNA
- ② JUMPER, 1/2"φ x 10'
- ③ TMA
- ④ JUMPER, 1/2"φ x 6'
- ⑤ COAX, 7/8"φ OR 1 5/8"φ
- ⑥ TMA GROUND, #6 THW INSULATED GROUND WIRE
- ⑦ COAX GROUND KIT
- ⑧ 4" x 14" x 1/4" GROUND BAR MOUNTED TO TOWER
- ⑨ (NOT USED)
- ⑩ AIS6 CABLE PART NO. ATCB-B01-010
- ⑪ GROUND BAR MOUNTED TO TOWER
- ⑫ GROUND BAR MOUNTED ON CHERRY INSULATORS
- ⑬ COAX GROUND KIT
- ⑭ JUMPER, 1/2"φ x 12'
- ⑮ GROUND TERMINATION BAR ON CHERRY INSULATORS
- ⑯ #2 Cu SOLID TINNED GROUND WIRE

NOTES:

1. FOR EVERYTHING ABOVE THE TOWER BOTTOM BUSS BAR USE SINGLE HOLE LUG WITH HEAT SHRINK ON ANTENNA, TMA, TMA FILTER & 2 HOLE LUG WITH HEAT SHRINK ON BUSS BAR END OF GROUND WIRE.
2. ALL GROUND CONNECTIONS STARTING AT THE TOWER BOTTOM BUSS BAR AND DOWN ARE TO BE EXOTHERMIC WELD OR 2 HOLE CADWELD LUG.
3. NUMBER OF ANTENNAS AND LINES TO BE INSTALLED SHALL BE AS DIRECTED BY THE CONSTRUCTION MANAGER.
4. GROUNDING OF ANTENNAS, MOUNTS, COAX, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH T-MOBILE'S SPECIFICATIONS.



(6) ANTENNA AND (12) COAX GROUNDING DETAIL
(NOT TO SCALE)

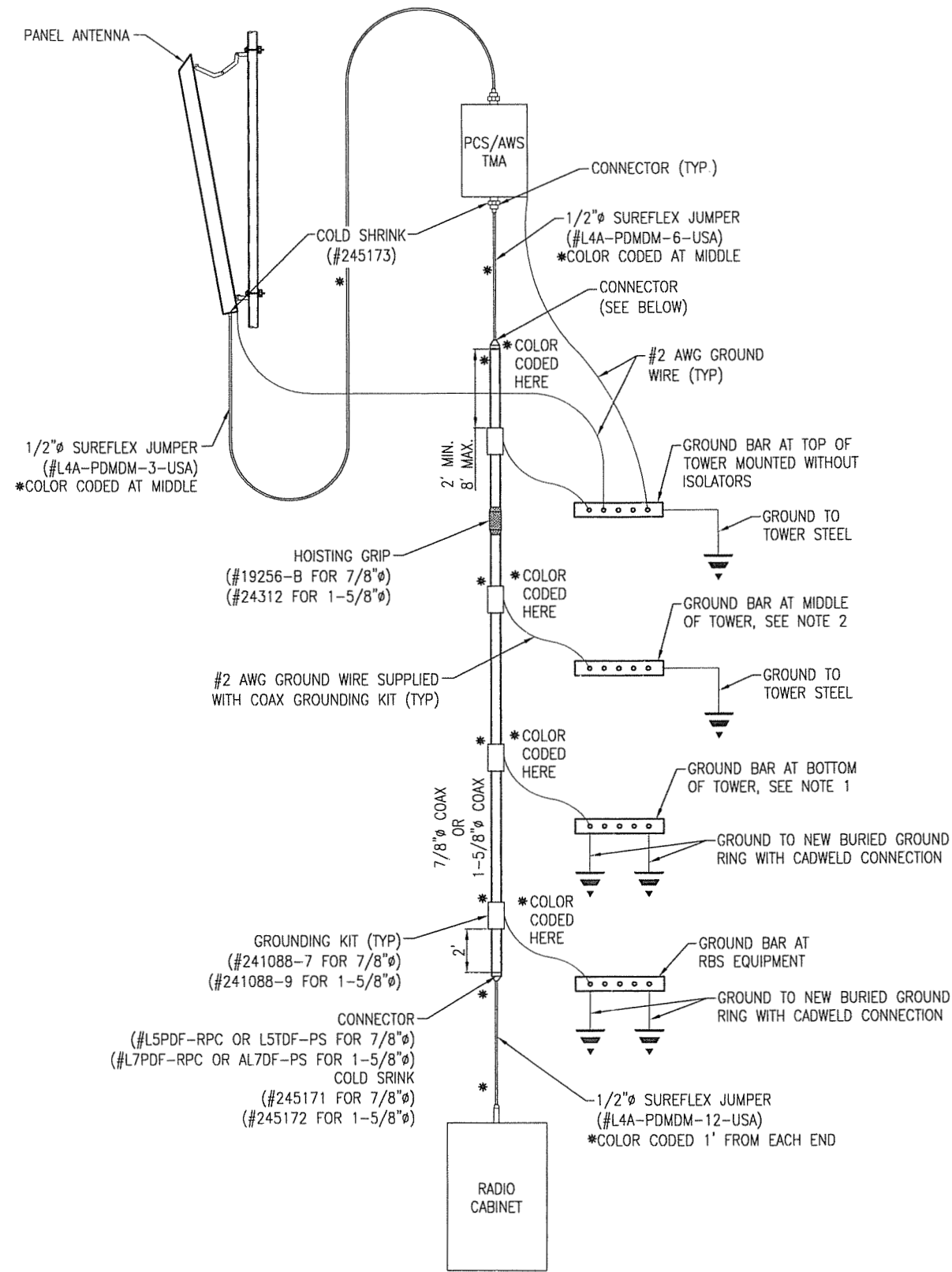


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY :	DATE :
J.E. STEGER	11-17-08
CHECKED BY :	DATE :
T.L. HARDY	11-17-08
APPROVED BY :	DATE :

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

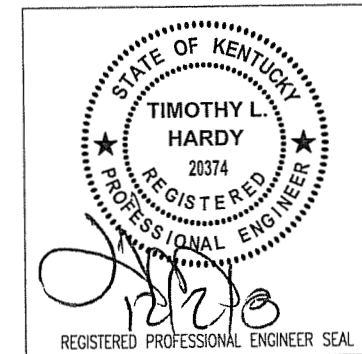
DWG NAME: ANTENNA & COAX GROUNDING DETAIL	
STANDARD DRAWING	
FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY	
CAD No: LV0726_C3	SCALE: AS SHOWN
DWG No: C3	



NOTES

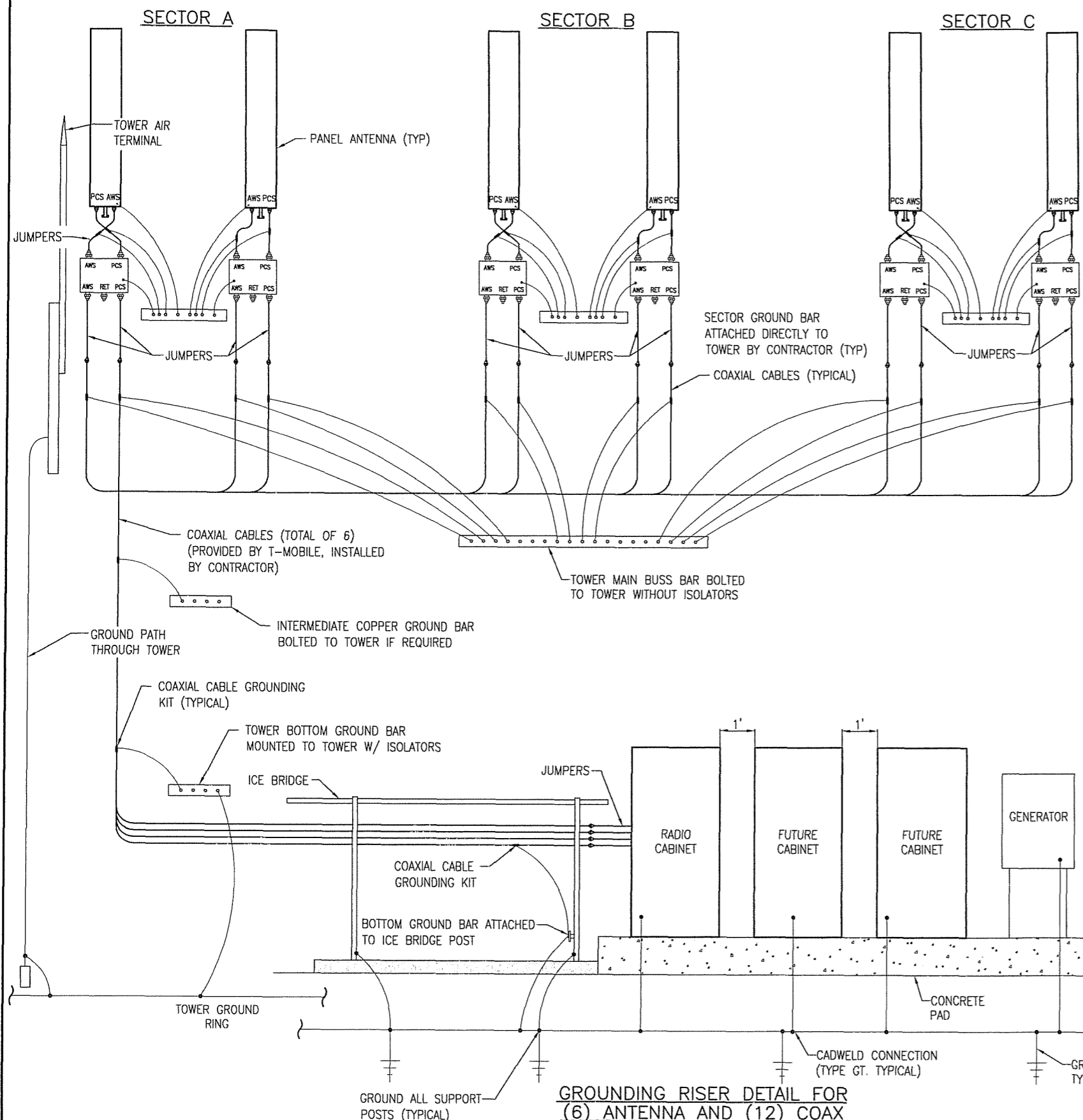
1. ATTACH GROUND BAR TO THE EXISTING TOWER USING STANDARD ADAPTER (ISOLATORS).
2. ATTACH GROUND BAR TO THE EXISTING TOWER USING STANDARD ADAPTER (WITHOUT ISOLATORS). INSTALL ONLY WHEN RAD CENTERS EXCEEDS 200'. (SELF SUPPORT & GUYED TOWERS ONLY)

ANTENNA CABLE GROUNDING SCHEMATIC
(NOT TO SCALE)



ITEM	REVISIONS	BY	CHK. BY	DATE	DRAWN BY	DATE	DWG NAME
					J.E. STEGER	11-17-08	COAX GROUNDING DETAIL
					T.L. HARDY	11-17-08	STANDARD DRAWING
							FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY
							CAD No. LV0726_C3.1 SCALE AS SHOWN DWG No. C3.1

HARDY ENGINEERING, INC.
ENGINEERING AND CONSULTING
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TRUSSVILLE, AL 35173
PHONE: (205) 655-1427 FAX: (205) 661-9027



GENERAL GROUNDING NOTES

- SITE GROUNDING SHALL COMPLY WITH POWERTEL GROUNDING STANDARDS, LATEST ADDITION, AND COMPLY WITH POWERTEL GROUNDING CHECKLIST, LATEST VERSION. WHEN LOCAL AND NATIONAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.
- GROUND RODS**
 - 5/8"x10" LONG COPPER CLAD STEEL.
 - MAXIMUM SPACING 10'-0".
 - TOP SHALL BE A MINIMUM OF 30" BELOW GRADE.

GROUND CONNECTORS

- #2 AWG BARE TINNED SOLID COPPER UNLESS OTHERWISE NOTED.
- WHEN DIRECTION OF CONDUCTOR CHANGES, IT SHALL BE DONE GRADUALLY.
- ALL GROUNDING CONDUCTORS SHALL RUN THROUGH SEAL TIGHT SLEEVES WHEREVER CONDUCTORS RUN THROUGH CONCRETE SLABS.
- GROUND RINGS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE AND SHALL BE LOCATED A MINIMUM OF 24" FROM THE OUTSIDE EDGE OF A CABINET, TOWER FOUNDATION AND OTHER SITE OBJECTS.
- ALL CONNECTIONS SHALL BE EXOTHERMIC (CADWLD OR EQUAL) UNLESS INDICATED OTHERWISE. ALL MATERIALS USED SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS.
- CONNECTIONS AT GROUND BARS AND SERVICE DISCONNECTION MEANS SHALL CONSIST OF LUGS CADWELDED TO GROUND CONDUCTORS UNLESS INDICATED OTHERWISE. LUGS SHALL BE ATTACHED TO GROUND BARS USING STAINLESS STEEL OR HOT DIPPED GALVANIZED STEEL BOLTS, NUTS AND LOCK WASHERS.

COAXIAL TRANSMISSION LINE GROUNDING

- VERTICAL RUNS THAT ARE MORE THAN 200' OR LESS SHALL REQUIRE A GROUNDING KIT AT THE TOP AND BOTTOM OF THE TOWER.
- VERTICAL RUNS WHICH ARE GREATER THAN 200' SHALL REQUIRE A GROUNDING KIT (IN ADDITION TO THE ABOVE) FROM THE TOP EVERY 150' TOWARDS THE GROUND BAR UNTIL THE DISTANCE IS LESS THAN 150' FROM THE GROUND.
- SURGE ARRESTOR IS PROVIDED BY OTHERS AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL CONNECTIONS REQUIRED FOR INSTALLATION.
- ALL GROUNDING KITS SHALL BE PROVIDED BY OTHERS AND INSTALLED BY CONTRACTOR.

MISC. ITEMS TO BE CONNECTED TO GROUNDING SYSTEM

- ANY METAL FENCE POST WITHIN 6'-0" OF GROUND ROAD.
- TRANSMISSION LINE ENTRANCE HATCH.
- METAL CABINET PARTS NOT GROUNDED BY THE INTERNAL GROUND RING.
- METAL FUEL STORAGE TANKS.
- ANY SIGNIFICANT METAL OBJECT WITHIN 6'-0" OF THE GROUNDING SYSTEM OR ANY OTHER GROUNDED OBJECT.
- EXTERIOR ICE SHIELDS.
- STEEL EQUIPMENT PLATFORM.

INSTALLATION AND TESTING

- CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER IMMEDIATELY IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO FIELD CONDITIONS.
- CONTRACTOR SHALL NOT COVER UP GROUND RING AND CONNECTIONS UNTIL AN INSPECTION HAS BEEN PERFORMED. COORDINATE INSPECTION WITH CONSTRUCTION MANAGER.
- PROVIDE TESTING OF GROUNDING SYSTEM AS DIRECTED BY THE CONSTRUCTION MANAGER.

THE MAXIMUM ALLOWABLE RESISTANCE READING SHALL BE 5 OHMS TO THE GROUND. IF THE RESISTANCE OF THE ENTIRE GROUND SYSTEM AS MEASURED AT THE MAIN GROUND TEST WELL EXCEEDS 5.0 OHMS THE ELECTRICAL CONTRACTOR AND OWNERS REPRESENTATIVE SHALL BE NOTIFIED SO THAT ADDITIONAL GROUND LOCATIONS CAN BE UTILIZED.

ALL EXPOSED GROUND LEADS TO GROUND RING, PLACED IN CONCRETE, SHALL BE ENCASED IN 3/4" FLEXIBLE CONDUIT, SEALTIGHT OR EQUAL.

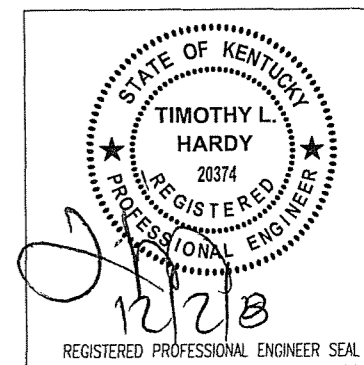
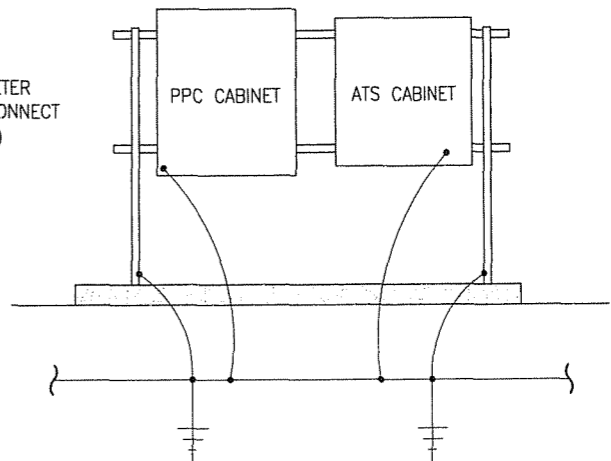
ALL GROUND WIRE CONNECTIONS TO EQUIPMENT GROUND RING THAT ARE RUNNING ABOVE GROUND SHALL BE RUN INSIDE SEALTIGHT FLEX CONDUIT.

ALL CONNECTIONS ABOVE GROUND EXCEPT CONNECTIONS TO GROUND BARS OR ARRESTOR BRACKET SHALL BE WITH DOUBLE LUG CONNECTORS. CONNECTIONS TO GROUND BARS AND ARRESTORS SHALL BE CADWELD.

ALL GROUNDING RUNS ON TOWER SHALL BE ROUTED ON THE INSIDE FACE OF THE ICE BRIDGE LADDER

COMPACT BACKFILL OF ALL TRENCHES FOR GROUND RING. SITE SOIL OR #57 STONE MAY BE USED FOR BACKFILL MATERIALS. CONTRACTOR SHALL OBTAIN APPROVAL FOR BACKFILL MATERIALS FROM CONSTRUCTION MANAGER.

CONTRACTOR SHALL PROVIDE SS FLAT AND LOCK WASHERS AS REQUIRED FOR COMPLETE INSTALLATION OF GROUND LEADS AT GROUND BUSS.



ITEM	REVISIONS	BY	CHK. BY	DATE

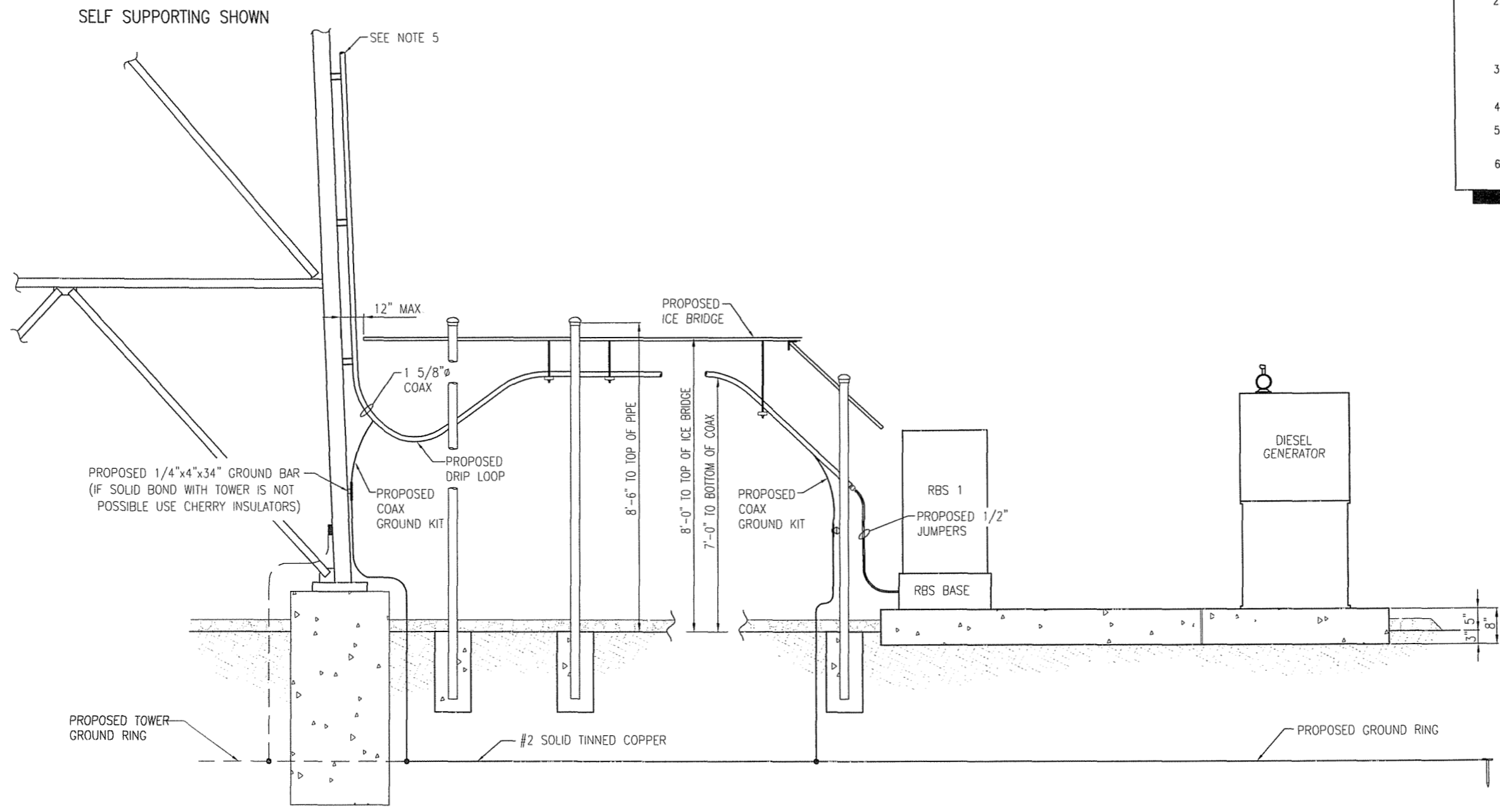
GROUNDING RISER DETAIL FOR (6) ANTENNA AND (12) COAX (NOT TO SCALE)

DRAWN BY	DATE
S.E. WOMACK	11-26-08
CHECKED BY	DATE
T.L. HARDY	11-26-08
APPROVED BY	DATE

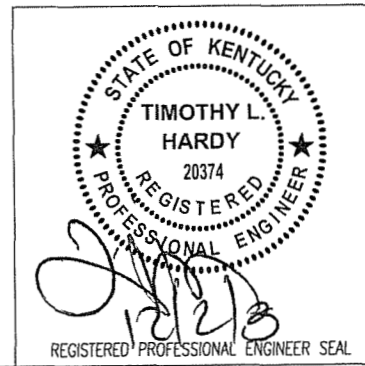
HARDY ENGINEERING, INC.
ENGINEERING AND CONSULTING
209 LINDEN STREET, P.O. BOX 708
TRUSSVILLE, AL 35173
PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG NAME: GROUNDING RISER DIAGRAM	
STANDARD DRAWING FOR POWERTEL / MEMPHIS, INC LOUISVILLE, KENTUCKY	
CAD No: LV0726_3.2	SCALE: NOT TO SCALE
DWG No: C3.2	

- NOTES**
1. ALL CONDUIT SHALL BE PVC CONDUIT UNLESS OTHERWISE NOTED.
 2. ALL CONDUIT PENETRATING EQUIPMENT PANELS SHALL BE SECURED WITH A GROUNDING BUSHING AND GROUNDED TO EQUIPMENT GROUND BUSS WITH A GROUND LUG.
 3. ALL CONDUITS TO BE SECURED WITH CONDUIT BEAM CLAMP Q-7 / GEDNEY TYPE "J".
 4. PROVIDE A SMOOTH TRANSITION AND DRIP LOOP.
 5. ANTENNA END OF 1 5/8"Ø COAX SHALL BE SUPPORTED NO MORE THAN 1 FOOT FROM END OF CONNECTOR.
 6. 1/2"Ø COAX SHALL BE SUPPORTED EVERY 2'-0" TO 2'-6" WITH ANGLE ADAPTORS WITH CLAMP OR EQUIVALENT.



EQUIPMENT ELEVATION

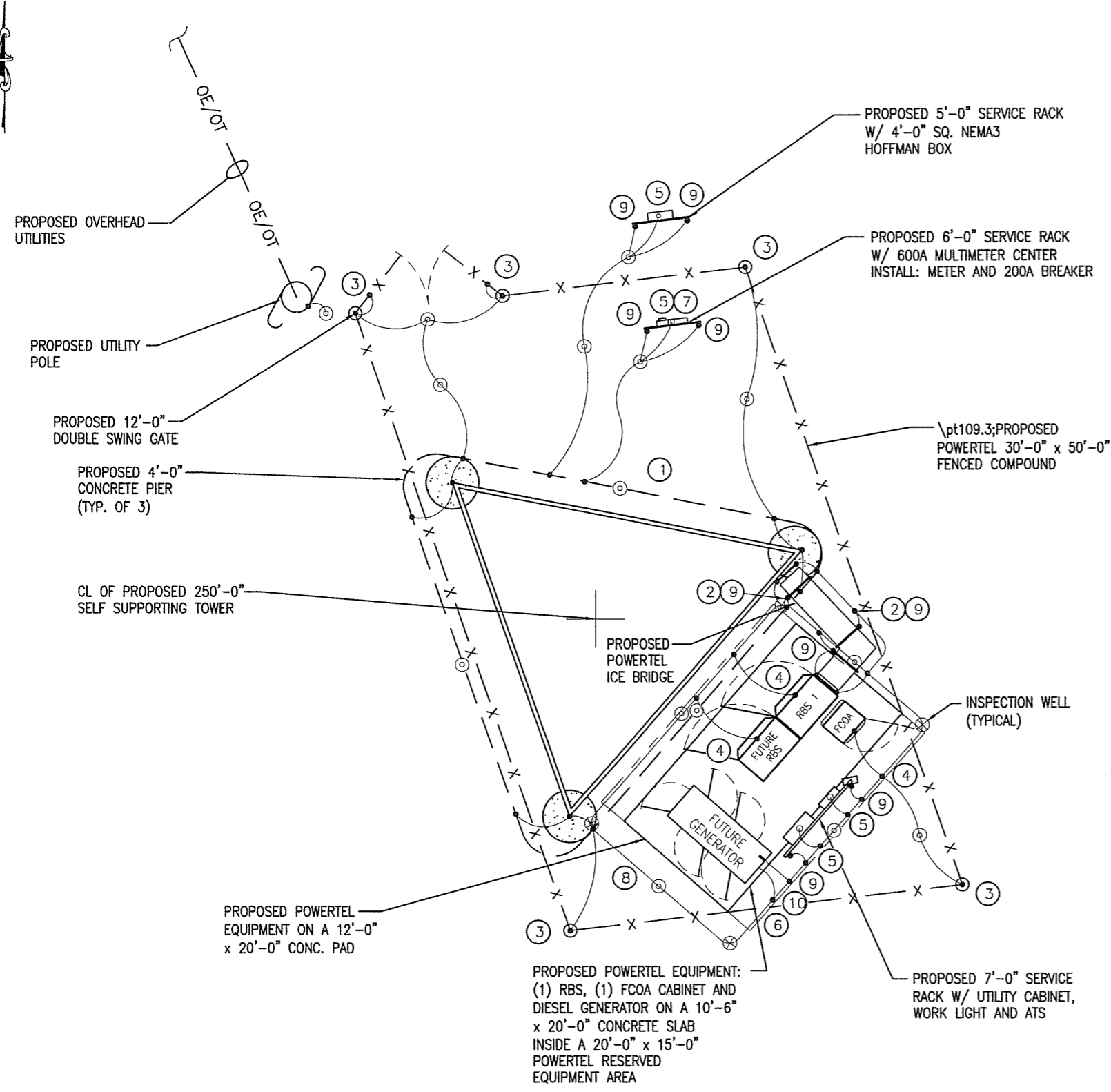


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY:	DATE:
S.E. WOMACK	11-17-08
CHECKED BY:	DATE:
T.L. HARDY	11-17-08
APPROVED BY:	DATE:

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

DWG NAME: EQUIPMENT ELEVATION	
STANDARD DRAWING FOR POWTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY	
CAD No: LVO726_C4	DWG No: C4
SCALE: NOT TO SCALE	

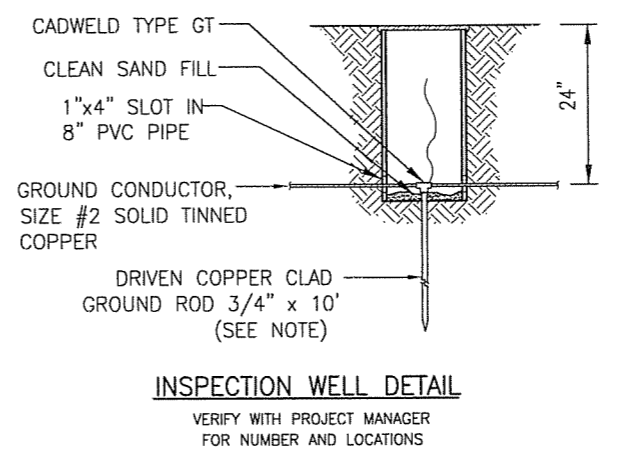


GENERAL NOTES:

- 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
- 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.
- ALL CADWELDS TO BURIED GROUND RING SHALL BE OF PARALLEL TYPE. NO "TEE" CONNECTIONS TO BE USED.
- USE DE-OX OR NOALOX COMPOUND BETWEEN ALL GROUNDING LUG CONNECTIONS. DO NOT COVER LUGS OR HARDWARE WITH COMPOUND.
- ALL MOUNTING & CONNECTING HARDWARE FOR GROUNDING TO BE STAINLESS STEEL ONLY, NO PLATED OR GALVANIZED HARDWARE IS TO BE USED.
- GROUNDING CONDUCTORS TO BE BURIED A MINIMUM OF 30" DEEP UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.
- ALL GROUNDING CONDUCTORS TO BE BARE STRANDED, SOFT DRAWN COPPER UNLESS OTHERWISE SPECIFIED.
- USE ONLY 2-HOLE CADWELD LUGS ON ENDS OF GROUNDING CONDUCTORS. DO NOT USE COMPRESSION OR MECHANICAL TYPE LUGS.

CALL-OUT NOTES:

- PROPOSED TOWER STRUCTURE GROUND RING.
- CONNECT EXISTING TOWER RING GROUND TO EQUIPMENT RING GROUND ON BOTH SIDES. KEEP INTERCONNECTING WIRING OF EQUAL LENGTH AND TYPE.
- FENCE GROUND
- RBS GROUND, TYP. 2 PLACES, MAIN RBS AND FUTURE. INSTALL: CONTRACTOR TO SUPPLY AND INSTALL LUG IN RBS (2102) 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, 24 INCHES MIN.
- ICE BRIDGE & SERVICE BOARD POST GROUND, EACH POST TYP.
- FUEL TANK GROUND



LEGEND

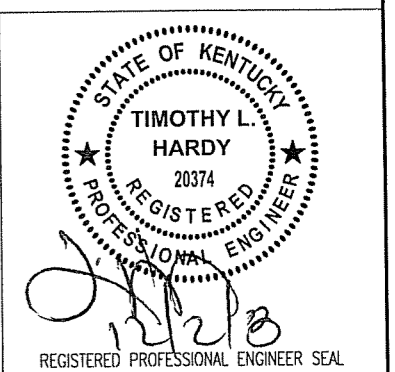
- EXISTING TOWER GROUND RING
- #2 SOLID TINNED COPPER GROUND CONDUCTOR UNLESS OTHERWISE SPECIFIED.
- ⊕ EXOTHERMIC WELD CONNECTION
- ⊙ 3/4" x 10' COPPER CLAD STEEL GROUND ROD UNLESS OTHERWISE SPECIFIED.
- ⊖ #2 SOLID TINNED COPPER FROM EQUIPMENT OR STEEL TO GROUND RING UNLESS OTHERWISE SPECIFIED

PROPOSED POWERTEL EQUIPMENT:
(1) RBS, (1) FCOA CABINET AND DIESEL GENERATOR ON A 10'-6" x 20'-0" CONCRETE SLAB INSIDE A 20'-0" x 15'-0" POWERTEL RESERVED EQUIPMENT AREA

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

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

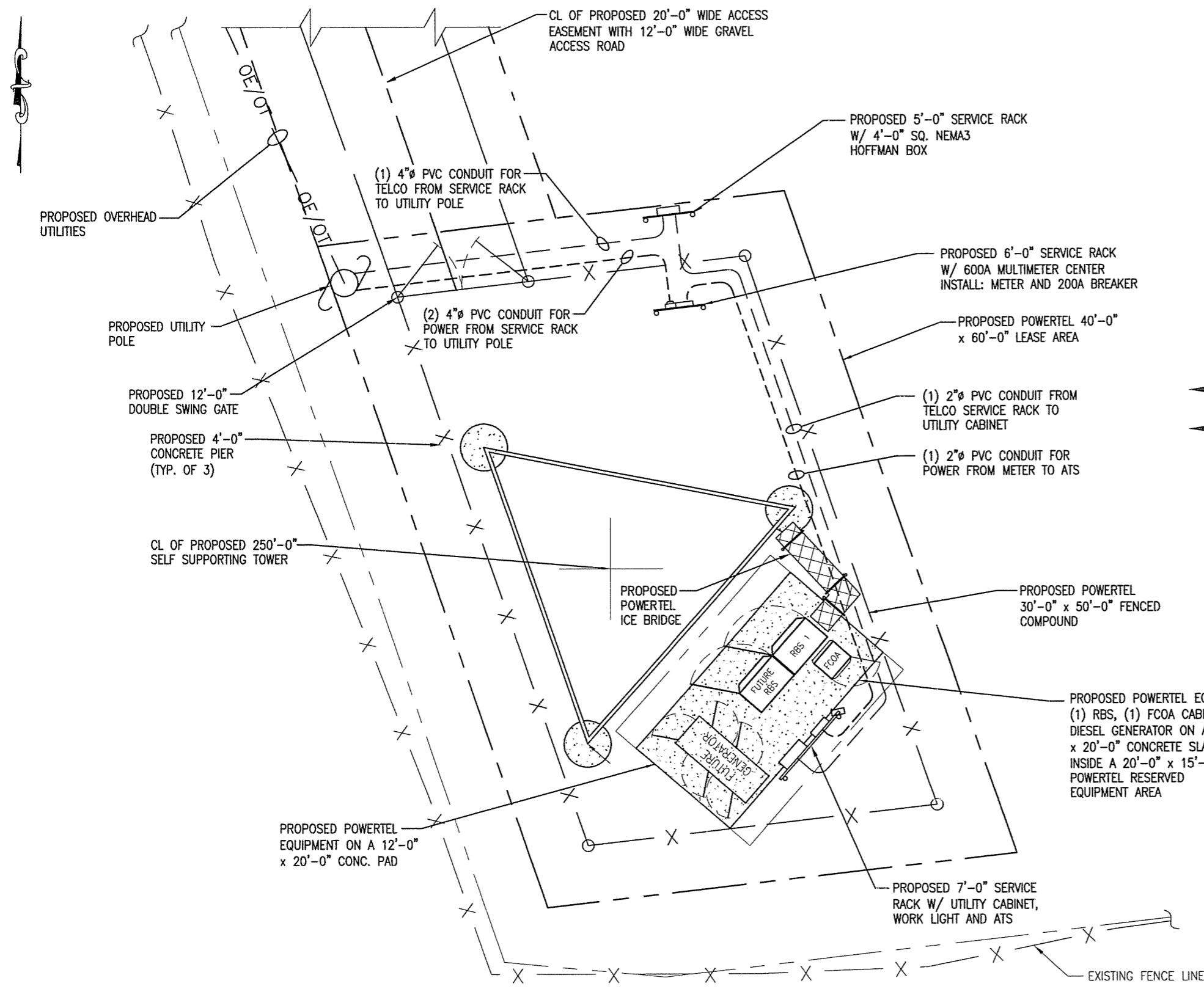


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY: J.E. STEGER	DATE: 11-17-08
CHECKED BY: T.L. HARDY	DATE: 11-17-08
APPROVED BY:	DATE:

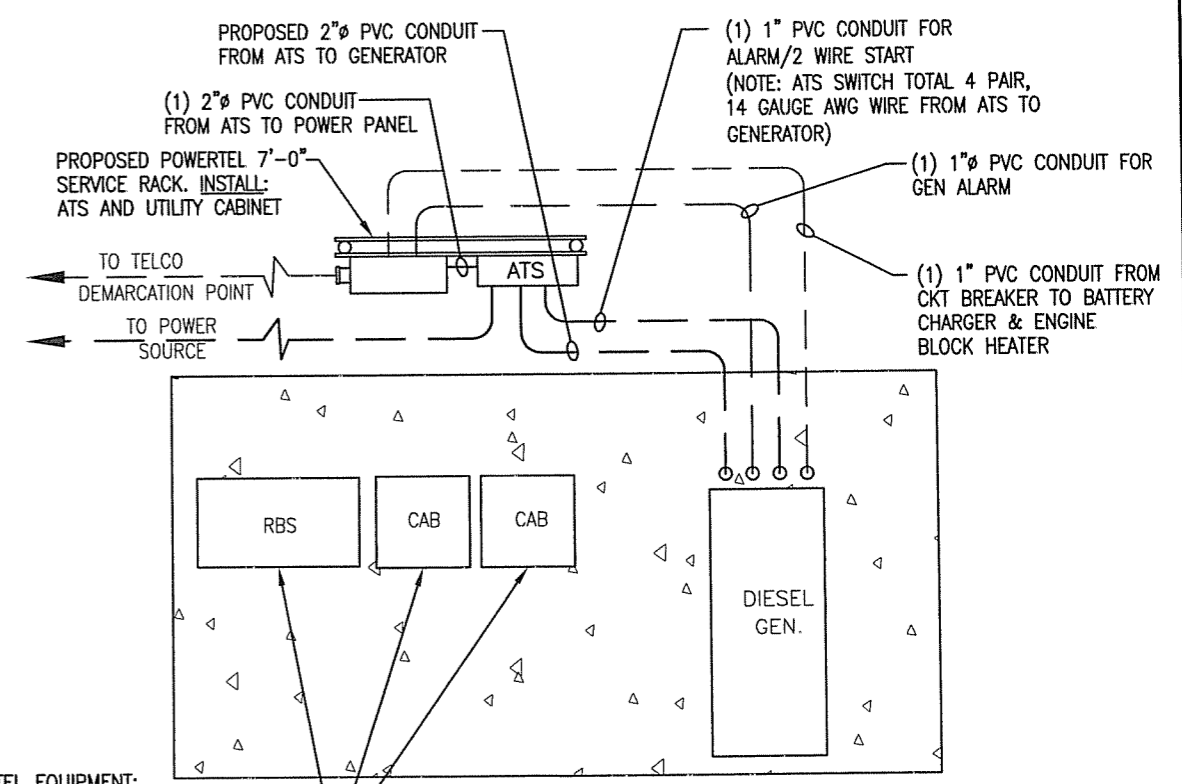
HARDY ENGINEERING, INC.
ENGINEERING AND CONSULTING
209 LINDEN STREET
TRUSSVILLE, AL 35173
PHONE: (205) 655-1427 FAX: (205) 661-9027

DWG NAME: GROUNDING LAYOUT	
9LV0726A SITE: MONSANTO HAUL ROAD CENTRAL CITY, KENTUCKY FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY	
CAD No: LV0726_C6	DWG No: C6



NOTES:

1. THIS INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES AND ORDINANCES. SEE LOCAL AUTHORITIES FOR ANY REQUIREMENTS BEYOND THESE LISTED.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY FOR 200 AMP SERVICE.
3. THE LOCAL UTILITY WILL MAKE THE SERVICE CONNECTIONS.
4. CONTRACTOR TO INSTALL 8 PAIR, 24 GAUGE, (16 WIRES) FOR ALARMS.

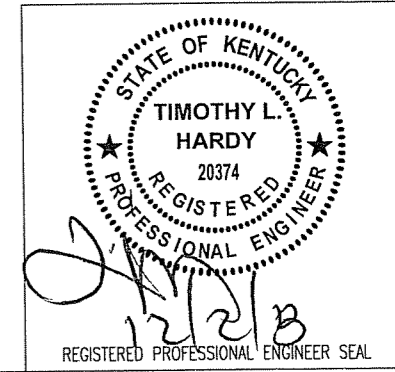


SEE SHEET C8 FOR CONDUIT SIZES AND STUB-UP PLACEMENTS

CONDUIT LAYOUT DETAIL
(N.T.S.)

NOTE: CONTRACTOR TO VERIFY ALL EXISTING UTILITIES BEFORE DIGGING

NOTE: BOUNDARY AND SITE FEATURES ARE BASED ON FIELD MEASUREMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THIS DRAWING.



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

ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY:	J.E. STEGER	DATE:	11-17-08
CHECKED BY:	T.L. HARDY	DATE:	11-17-08
APPROVED BY:		DATE:	

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

DWG NAME:	CONDUIT LAYOUT		
	9LV0726A SITE: MONSANTO HAUL ROAD CENTRAL CITY, KENTUCKY		
	FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY		
CAD No:	LV0726_C7	SCALE:	AS SHOWN
DWG No:			C7

PANEL MOUNTING
200 AMP MAIN BREAKER 10 KAIC

PANEL PNL

200 AMP BUS
120 / 240 VOLT 1 PHASE 3 WIRE

CIRCUIT NUMBER	DIRECTORY	VA		DEVICE			BKR		PHASE A B	BKR		DEVICE			VA		DIRECTORY	CIRCUIT NUMBER
		ØA	ØB	MISC	RCEPT	LIG	TRIP	POLE		POLE	TRIP	LIG	RCEPT	MISC	ØA	ØB		
1	TVSS SURGE PROTECTOR	0								1	15				400		INSIDE & OUTSIDE GFI R'CEPT	2
3			0							2	50						SPARE	4
5	COOLING FAN	200																6
7	OUTSIDE LIGHT		400															8
9	BLANK									2	50						SPARE	10
11	BLANK																BLANK	12
13	BLANK																BLANK	14
15	BLANK																BLANK	16
17	BLANK																BLANK	18
19	BLANK																BLANK	20
21	BLANK																BLANK	22
23	BLANK																BLANK	24
25	BLANK																BLANK	26
27	BLANK																BLANK	28
29	BLANK																BLANK	30

200 400

400 0

CONNECTED LOAD (VA)
PHASE A 600
PHASE B 400

TOTAL CONNECTED LOAD = 1.0 KVA = 4.2 AMPS

CASE 1 - 0 CABINETS INSTALLED

PANEL MOUNTING
200 AMP MAIN BREAKER 10 KAIC

PANEL PNL

200 AMP BUS
120 / 240 VOLT 1 PHASE 3 WIRE

CIRCUIT NUMBER	DIRECTORY	VA		DEVICE			BKR		PHASE A B	BKR		DEVICE			VA		DIRECTORY	CIRCUIT NUMBER
		ØA	ØB	MISC	RCEPT	LIG	TRIP	POLE		POLE	TRIP	LIG	RCEPT	MISC	ØA	ØB		
1	TVSS SURGE PROTECTOR	0								1	15				400		INSIDE & OUTSIDE GFI R'CEPT	2
3			0							2	50				4800		RBS-1	4
5	COOLING FAN	200												4800			6	
7	OUTSIDE LIGHT		400														8	
9	BLANK									2	50					SPARE	10	
11	BLANK															BLANK	12	
13	BLANK															BLANK	14	
15	BLANK															BLANK	16	
17	BLANK															BLANK	18	
19	BLANK															BLANK	20	
21	BLANK															BLANK	22	
23	BLANK															BLANK	24	
25	BLANK															BLANK	26	
27	BLANK															BLANK	28	
29	BLANK															BLANK	30	

200 400

5200 4800

CONNECTED LOAD (VA)
PHASE A 5400
PHASE B 5200

TOTAL CONNECTED LOAD = 10.6 KVA = 44.2 AMPS

CASE 2 - 1 CABINET INSTALLED

PANEL MOUNTING
200 AMP MAIN BREAKER 10 KAIC

PANEL PNL

200 AMP BUS
120 / 240 VOLT 1 PHASE 3 WIRE

CIRCUIT NUMBER	DIRECTORY	VA		DEVICE			BKR		PHASE A B	BKR		DEVICE			VA		DIRECTORY	CIRCUIT NUMBER
		ØA	ØB	MISC	RCEPT	LIG	TRIP	POLE		POLE	TRIP	LIG	RCEPT	MISC	ØA	ØB		
1	TVSS SURGE PROTECTOR	0								1	15				400		INSIDE & OUTSIDE GFI R'CEPT	2
3			0							2	50				4800		RBS-1	4
5	COOLING FAN	200												4800			6	
7	OUTSIDE LIGHT		400											4800			8	
9	BLANK									2	50			4800		RBS-2	10	
11	BLANK															BLANK	12	
13	BLANK															BLANK	14	
15	BLANK															BLANK	16	
17	BLANK															BLANK	18	
19	BLANK															BLANK	20	
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23	BLANK															BLANK	24	
25	BLANK															BLANK	26	
27	BLANK															BLANK	28	
29	BLANK															BLANK	30	

200 400

10000 9600

CONNECTED LOAD (VA)
PHASE A 10200
PHASE B 10000

TOTAL CONNECTED LOAD = 20.2 KVA = 84.2 AMPS

CASE 3 - 2 CABINETS INSTALLED

PANEL MOUNTING
200 AMP MAIN BREAKER 10 KAIC

PANEL PNL

200 AMP BUS
120 / 240 VOLT 1 PHASE 3 WIRE

CIRCUIT NUMBER	DIRECTORY	VA		DEVICE			BKR		PHASE A B	BKR		DEVICE			VA		DIRECTORY	CIRCUIT NUMBER
		ØA	ØB	MISC	RCEPT	LIG	TRIP	POLE		POLE	TRIP	LIG	RCEPT	MISC	ØA	ØB		
1	TVSS SURGE PROTECTOR	0								1	15				400		INSIDE & OUTSIDE GFI R'CEPT	2
3			0							2	50				4800		RBS-1	4
5	COOLING FAN	200												4800			6	
7	OUTSIDE LIGHT		400											4800			8	
9	BLANK									2	50			4800		RBS-2	10	
11	BLANK													4800			12	
13	BLANK									2	50			4800		RBS-3	14	
15	BLANK															BLANK	16	
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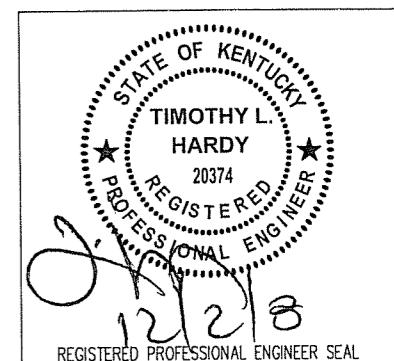
200 400

14800 14400

CONNECTED LOAD (VA)
PHASE A 15000
PHASE B 14800

TOTAL CONNECTED LOAD = 29.8 KVA = 124.2 AMPS

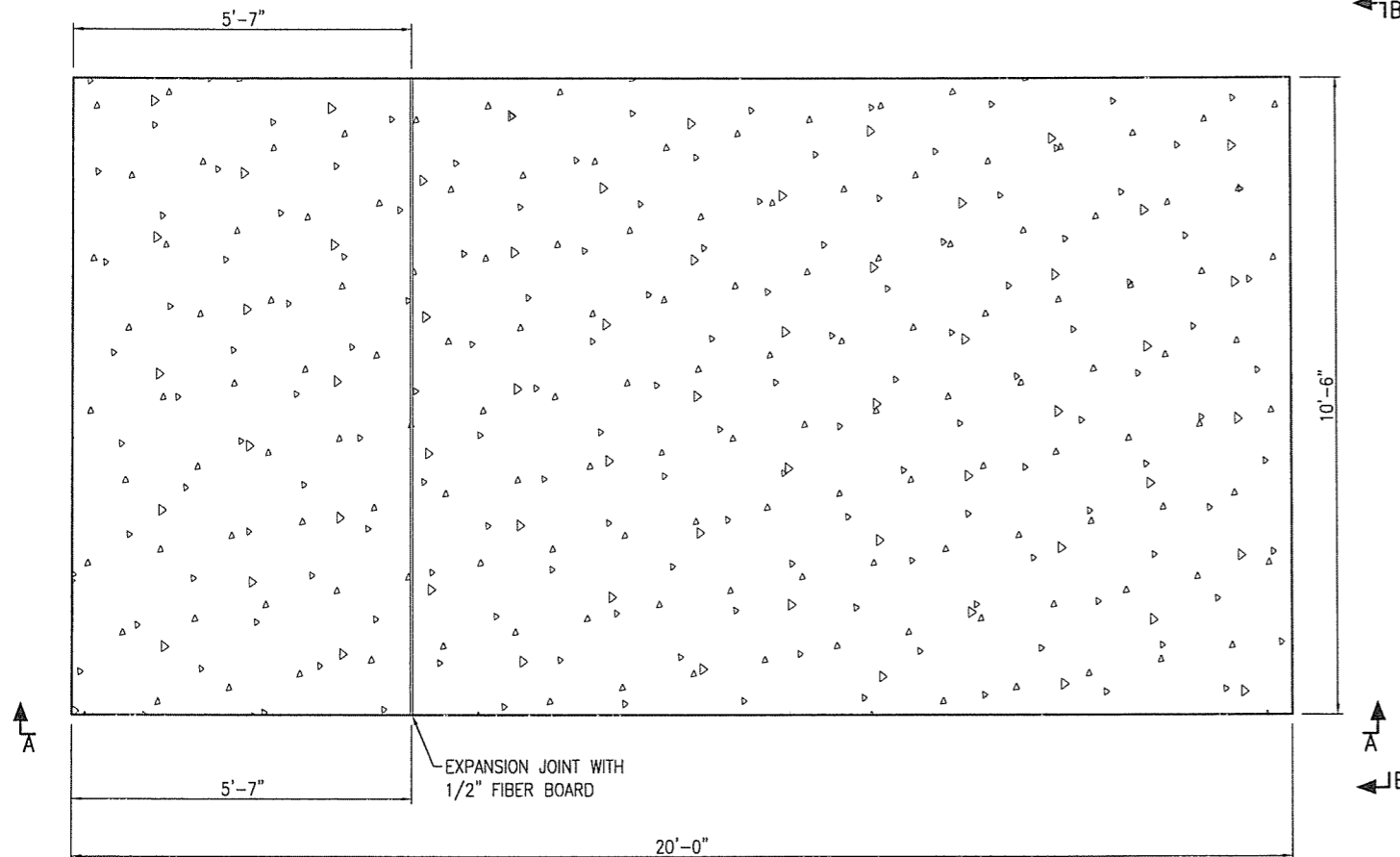
CASE 4 - 3 CABINETS INSTALLED



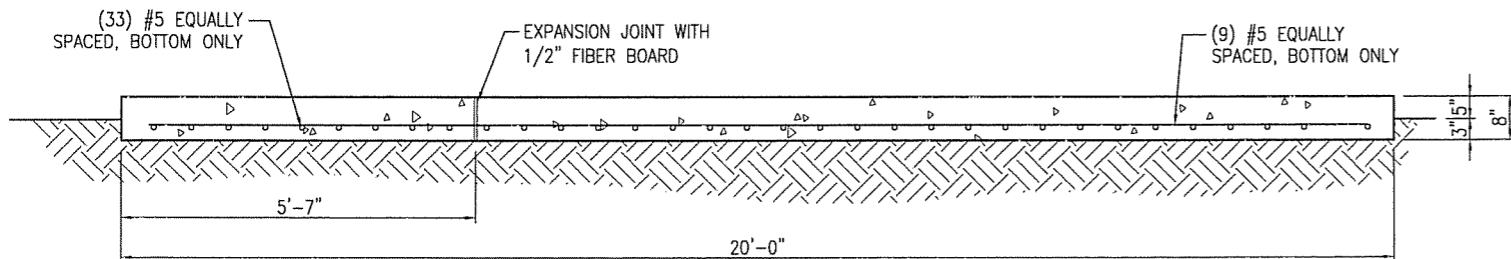
ITEM	REVISIONS	BY	CHK BY	DATE

DRAWN BY J.E. STEGER DATE 11-17-08	CHECKED BY T.L. HARDY DATE 11-17-08	APPROVED BY DATE 	HARDY ENGINEERING, INC. ENGINEERING AND CONSULTING 209 LINDEN STREET, P.O. BOX 708 TRUSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-9027	DWG NAME: PANEL BOARD CALCULATIONS STANDARD DRAWING FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY CAD No: LV0726_C7.1 SCALE: AS SHOWN Dwg No: C7.1
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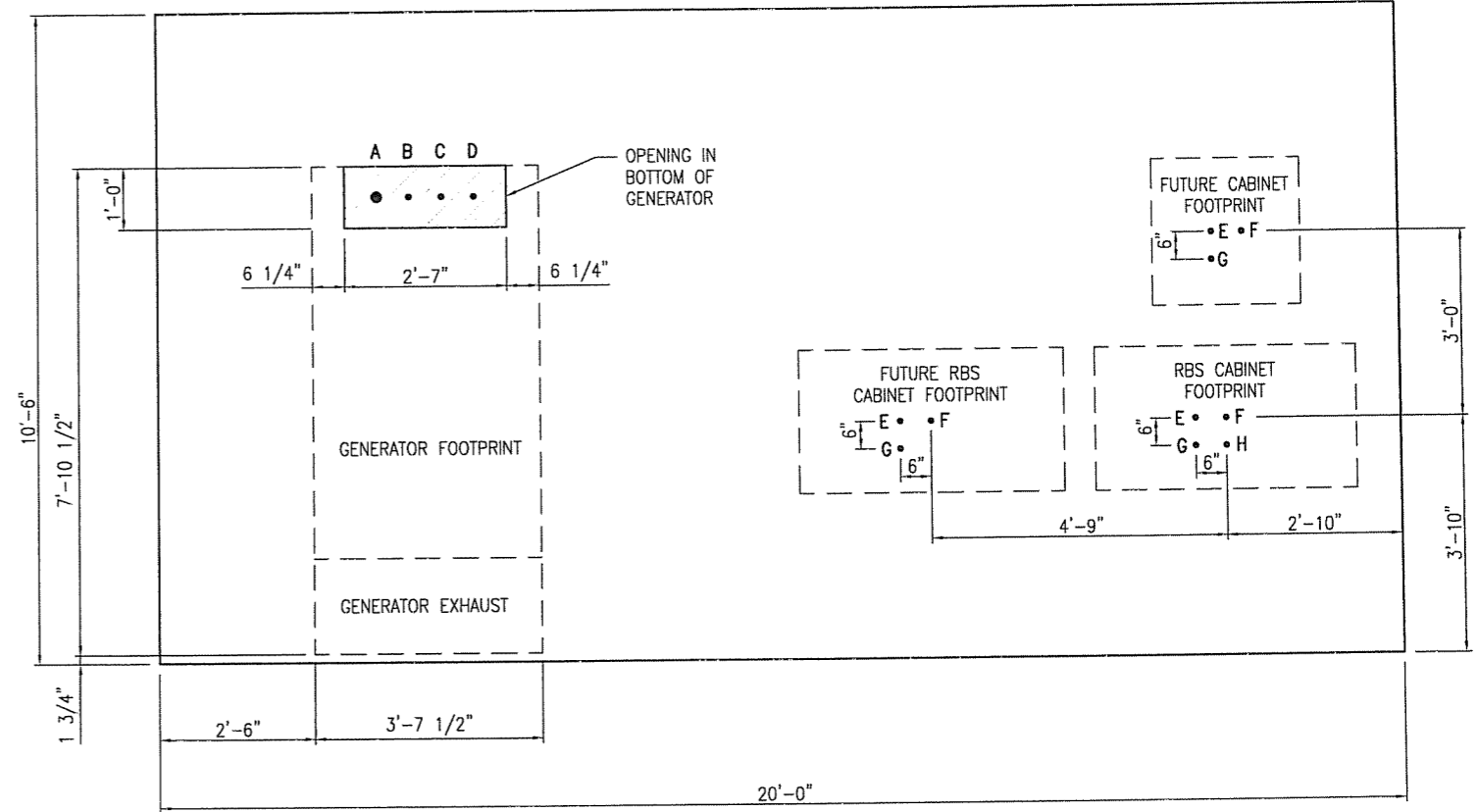
CONDUIT SCHEDULE				
CONDUIT	SIZE (IN.)	FROM	TO	DESCRIPTION
A	2"	GENERATOR	ATS	POWER
B	1"	GENERATOR	UTILITY BOX	BATTERY CHARGER / ENGINE BLOCK HEATER
C	1"	GENERATOR	ATS	ALARMS / 2 WIRE START
D	1"	GENERATOR	UTILITY BOX	ALARMS
E	2"	RADIO CABINET	UTILITY BOX	POWER
F	2"	RADIO CABINET	UTILITY BOX	25 PAIR CABLE / ALARMS
G	1"	RADIO CABINET	UTILITY BOX	ALARMS
H	1"	RADIO CABINET	UTILITY BOX	DC POWER



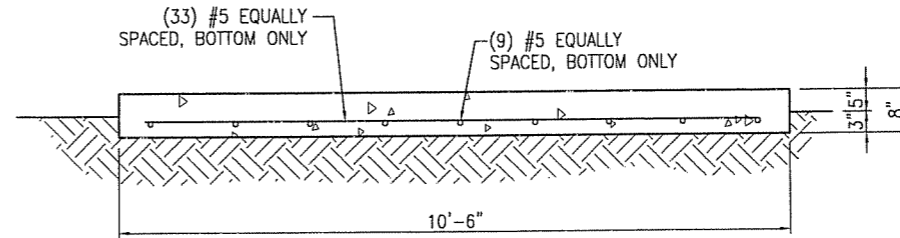
PLAN VIEW
(CONCRETE SLAB)



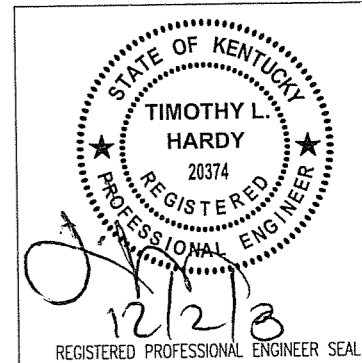
SECTION A-A



PLAN VIEW
(GENERATOR AND EQPT PAD)



SECTION B-B



ITEM	REVISIONS	BY	CHK. BY	DATE

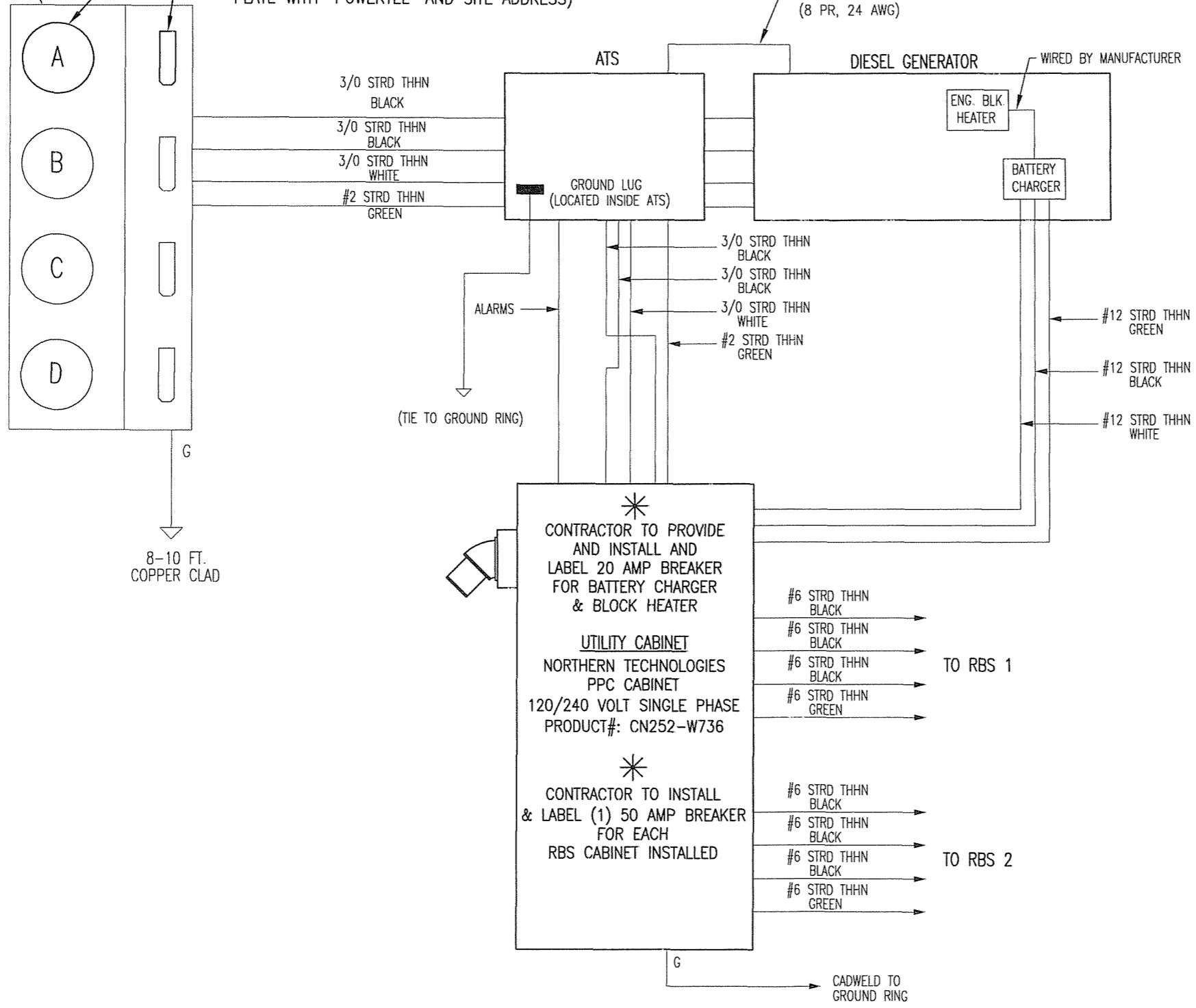
DRAWN BY:	J.E. STEGER	DATE:	11-17-08
CHECKED BY:	T.L. HARDY	DATE:	11-17-08
APPROVED BY:		DATE:	

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

DWG NAME:	CONCRETE FOUNDATION DETAILS		
	STANDARD DRAWING FOR		
	POWETEL / MEMPHIS, INC.		
	LOUISVILLE, KENTUCKY		
CAD No:	LV0726_C8	SCALE:	NONE
DWG No:			C8

PROPOSED 600 AMP
MUTI-GANG
METER CENTER

INSTALL: POWERTEL METER
AND 200 AMP DISCONNECT
(PLACE METER IN EMPTY SLOT)
(CONTRACTOR TO PROVIDE AND INSTALL
A METAL ETCHED OR ENGRAVED NAME
PLATE WITH "POWERTEL" AND SITE ADDRESS)

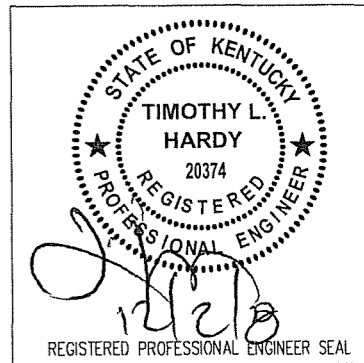


NOTE 1: WHEN INSTALLING TVSS UNIT, USE 3" LONG 1-1/4" CLOSE NIPPLE. USE LOWEST MOST BREAKER POSITIONS FOR 2P-60A BREAKER AND KEEP ALL WIRING TO TVSS AS SHORT AND DIRECT AS POSSIBLE NO SHARP WIRING BENDS.

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.

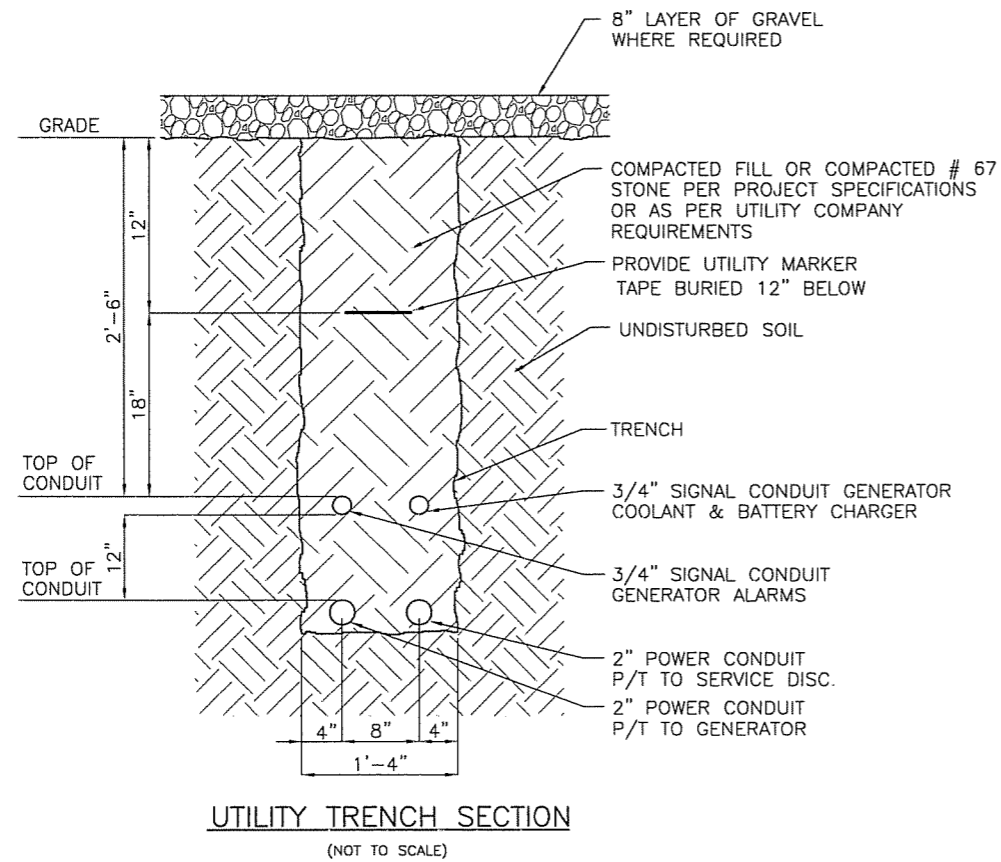
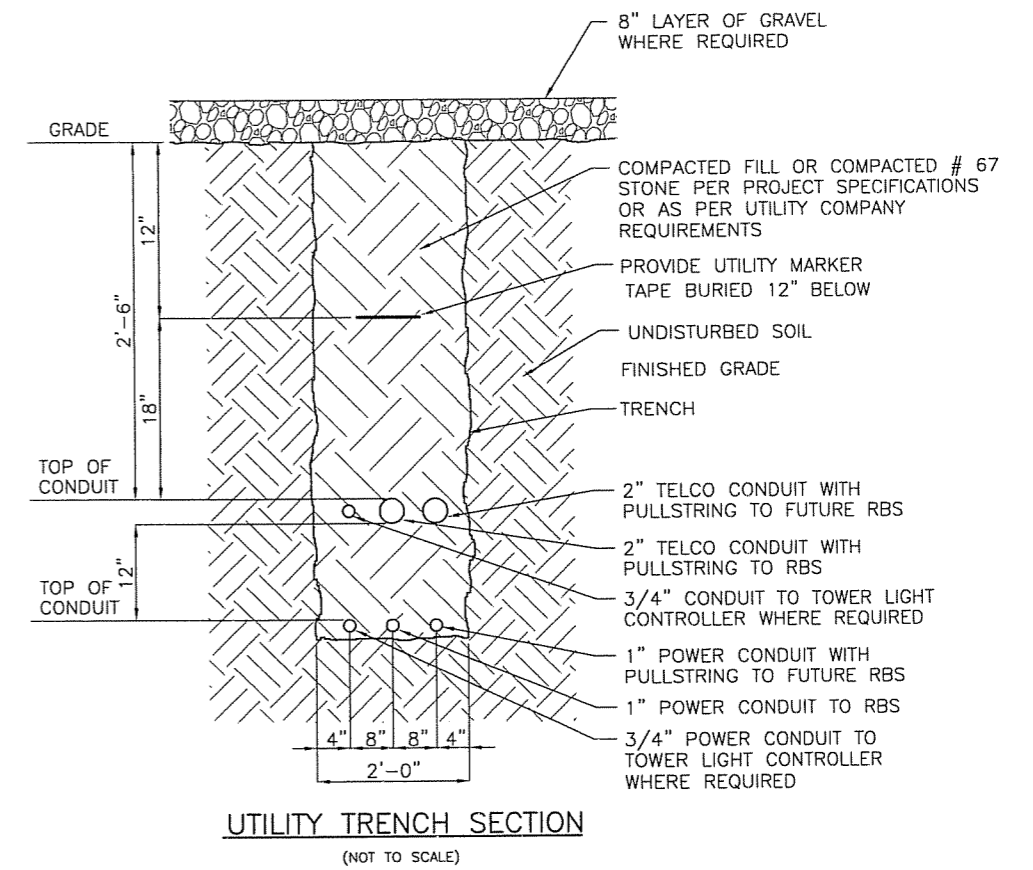
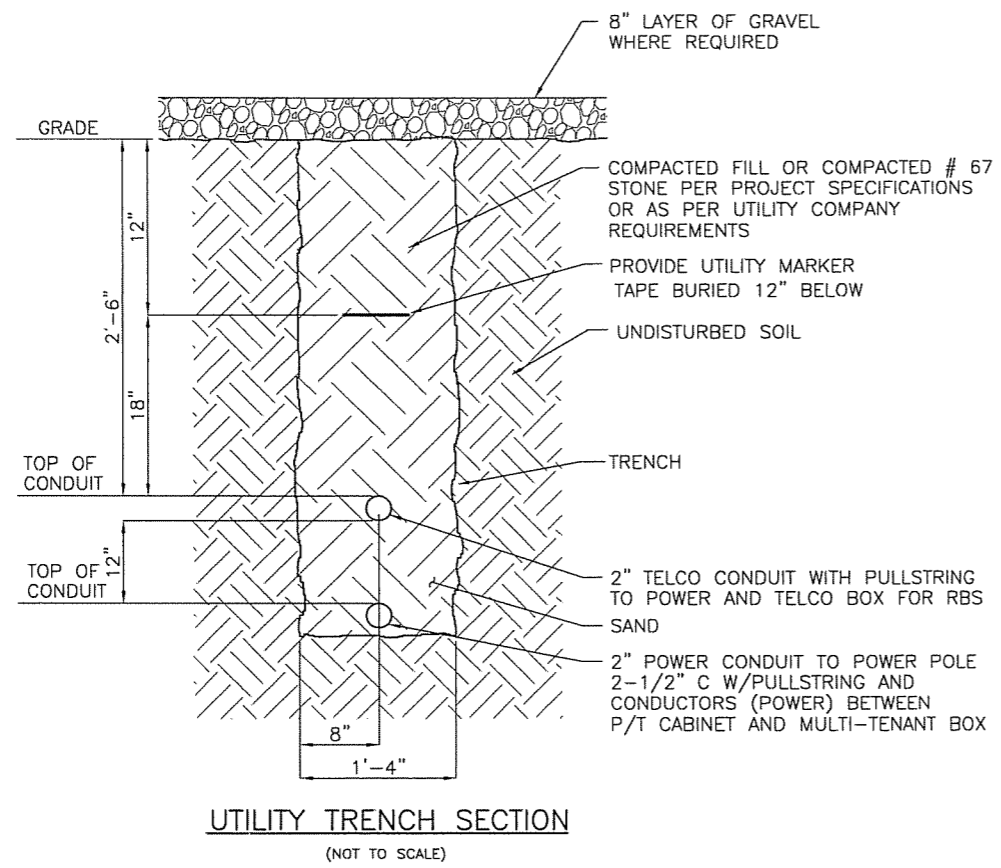


ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY: J.E. STEGER	DATE: 11-17-08
CHECKED BY: T.L. HARDY	DATE: 11-17-08
APPROVED BY:	DATE:

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

DWG NAME: WIRING DIAGRAM	DWG No: LV0726_C9
STANDARD DRAWING FOR POWERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY	SCALE: NOT TO SCALE
	DWG No: C9

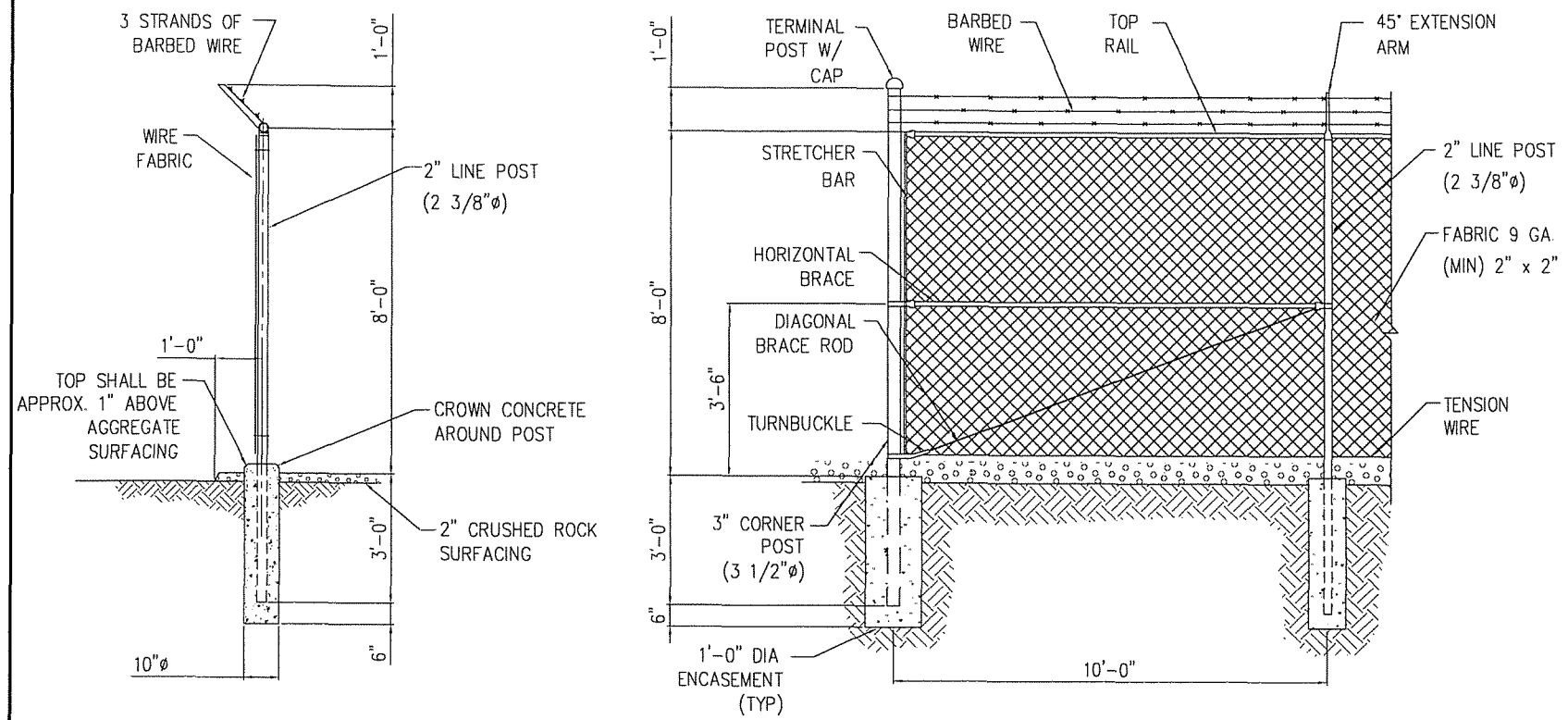


NOTE: ALL BACKFILL IN TRENCH TO BE MECHANICALLY COMPACTED IN LIFTS OF 6 INCHES.



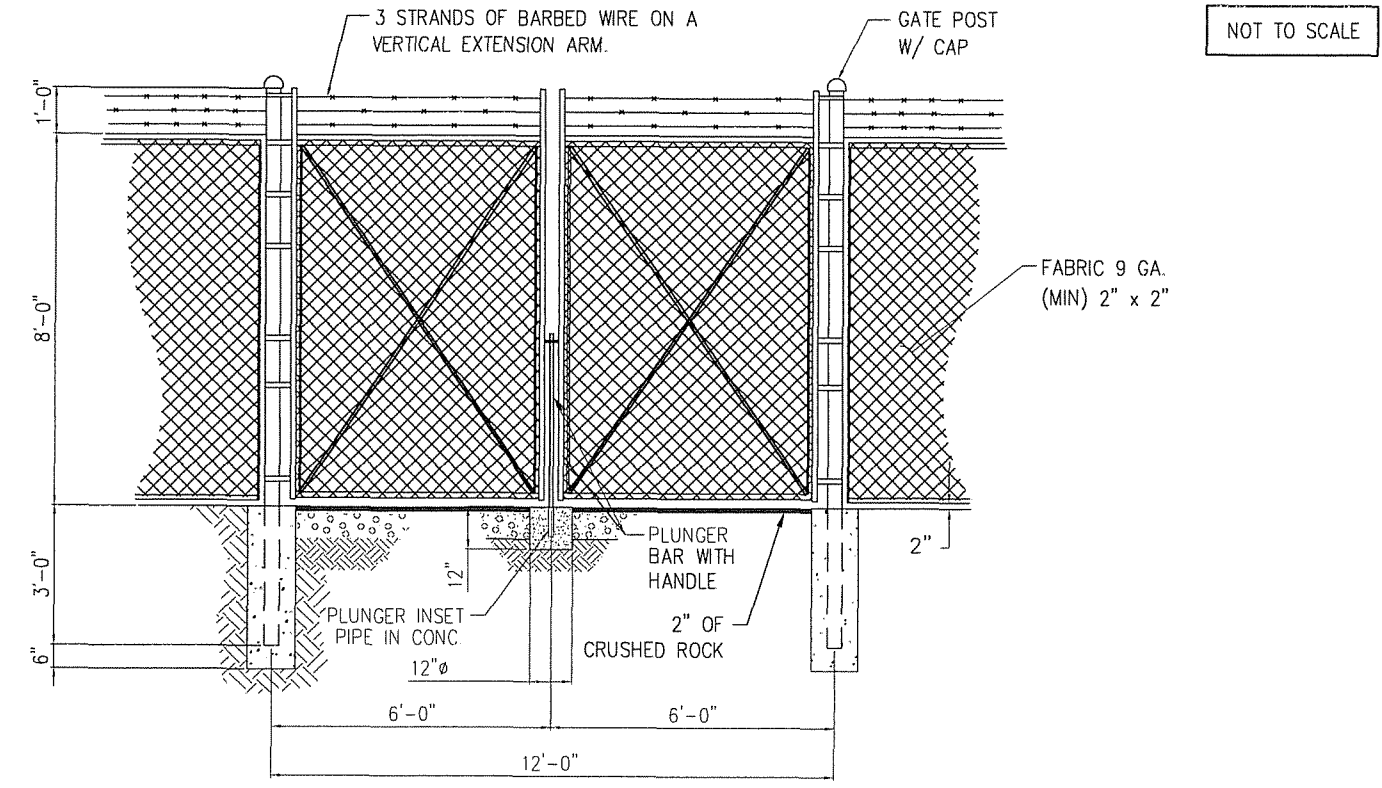
ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY S.E. WOMACK	DATE 11-17-08	HARDY ENGINEERING, INC. ENGINEERING AND CONSULTING 209 LINDEN STREET TRUSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-9027	DWG NAME UTILITY TRENCH DETAIL
CHECKED BY T.L. HARDY	DATE 11-17-08		STANDARD DRAWING FOR POWETEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY
APPROVED BY	DATE		CAD No LV0726_C10 SCALE NONE DWG No C10



TYPICAL FENCE POST

TYPICAL CORNER POST DETAIL



12'-0" DOUBLE SWING GATE DETAIL

FENCE TYPE:

SHALL CONSIST OF GALVANIZED STEEL FRAMEWORK AND GALVANIZED STEEL FABRIC WITH A HEIGHT 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 APPROXIMATELY 12 INCHES ABOVE THE TOP OF THE FABRIC. POSTS SHALL BE SET IN CONCRETE OR IN SLEEVES AS DETAILED.

MATERIALS:

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.

COMMERCIAL POST: LINE POST ARE 2" INCH, SCH. 40, 2 1/2 O.D. PIPE
 TERMINAL POSTS (END, CORNER, AND PULL) ARE 2-1/2" INCH, SCH. 40, 2-7/8 INCH O.D. PIPE
 GATE POST (SWING POSTS) ARE GATE OR LEAF 6ft OR LESS, 2-1/2" INCH, SCH. 40, 2-7/8 INCH O.D. PIPE
 GATE OR LEAF OVER 6ft WIDE AND UP TO 13ft, 3-1/2" 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.
STRETCHER BARS: STEEL, 3/16 BY 3/4 INCH, OR EQUIVALENT CROSS-SECTIONAL AREA.
FABRIC TIES: ALUMINUM BANDS AND WIRES.
GATE FRAMES: 1-1/2" INCH, SCH. 40, 1-7/8 INCH OD PIPE.
TENSION WIRE: GALVANIZED OR ALUMINUM COATED COIL SPRING WIRE, 7 GAUGE.



ITEM	REVISIONS	BY	CHK. BY	DATE

DRAWN BY:	DATE:
J.E. STEGER	11-17-08
CHECKED BY:	DATE:
T.L. HARDY	11-17-08
APPROVED BY:	DATE:

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

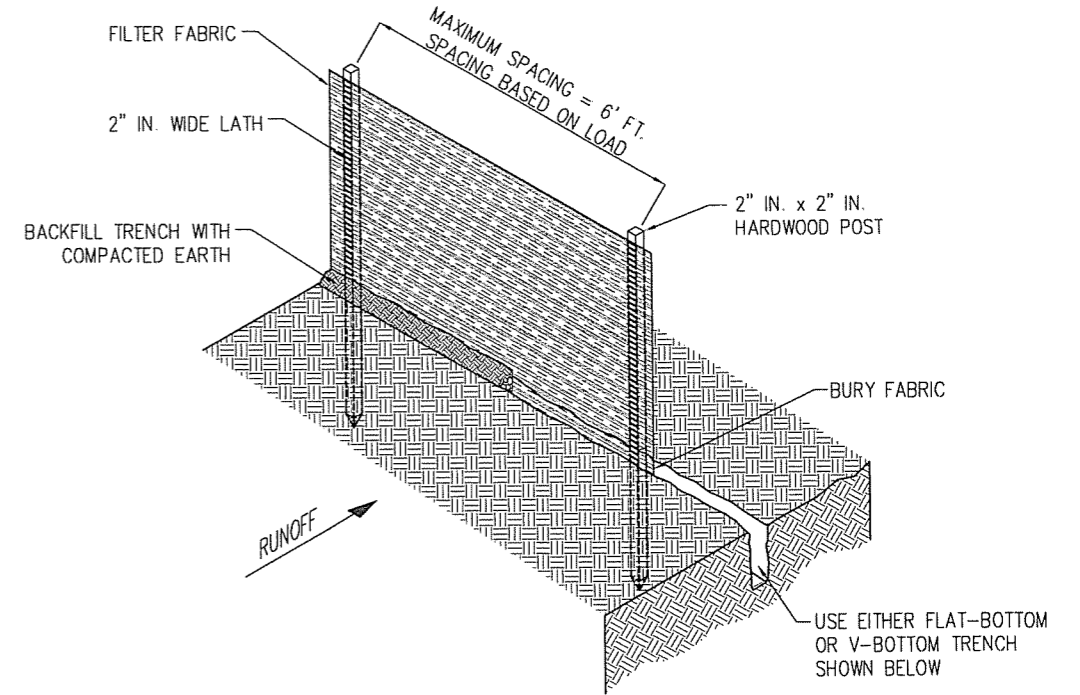
DWG. NAME:	SCALE:	DWG. No.
FENCE DETAILS	AS SHOWN	C11
STANDARD DRAWING FOR POERTEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY		
CAD No: LV0726_C11	SCALE	DWG No

INSTALLATION:

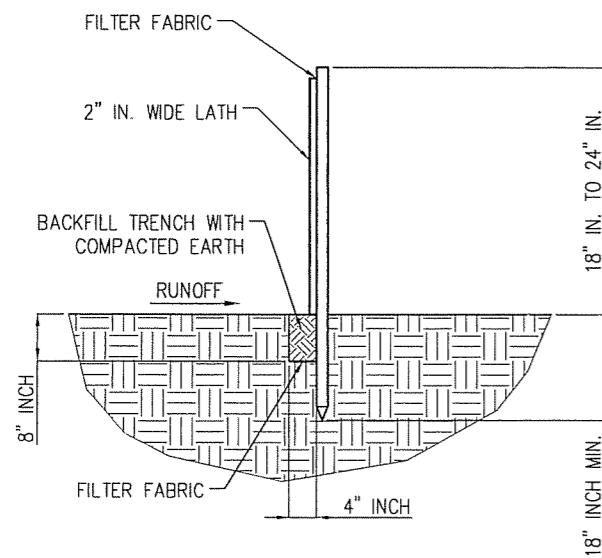
1. THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF THE FLOW). THE FENCE SHOULD BE LOCATED AT LEAST 10' FEET FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
2. A FLAT-BOTTOM TRENCH APPROXIMATELY 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:

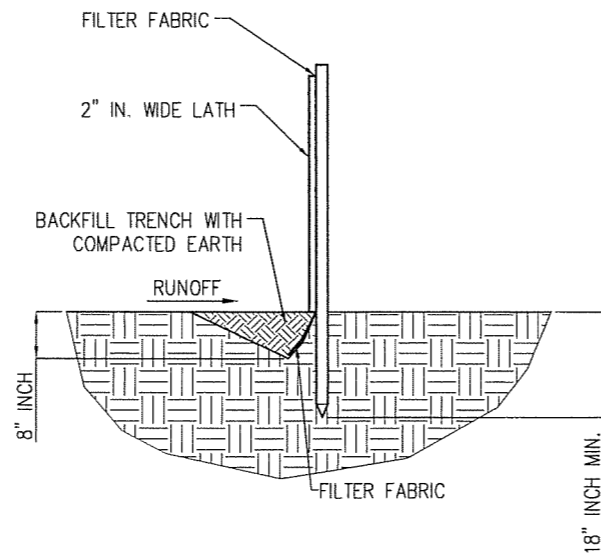
1. INSPECT SILT FENCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2"-INCH OR MORE OF PRECIPITATION. CHECK FOR AREAS WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE WAS CAUSED TO SAG OR COLLAPSE BY RUNOFF OVER TOPPING THE FENCE.
2. 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.



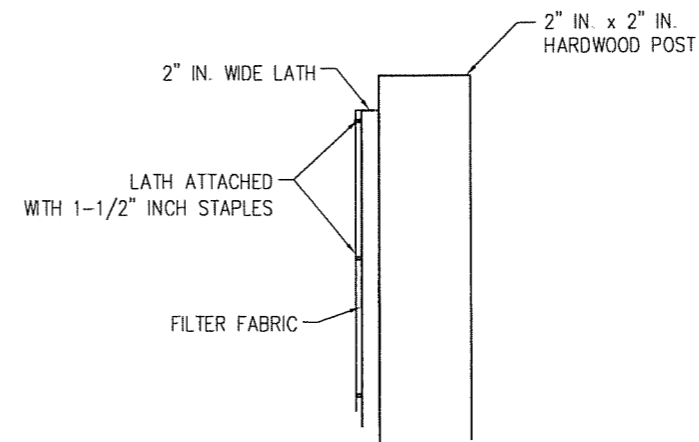
SILT FENCE INSTALLATION



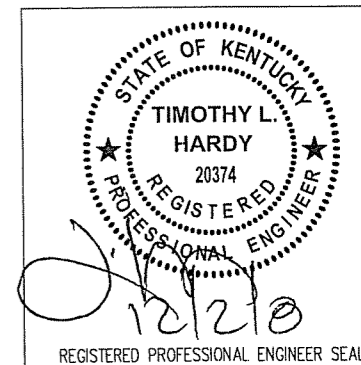
FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL






FABRIC ATTACHMENT DETAIL




ITEM	REVISIONS	BY	CHK. BY	DATE

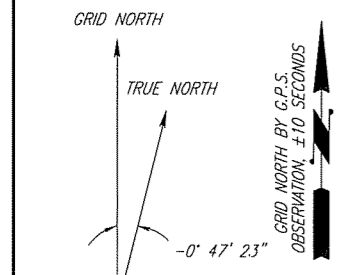
DRAWN BY: J.E. STEGER	DATE: 11-17-08	HARDY ENGINEERING, INC. ENGINEERING AND CONSULTING 209 LINDEN STREET, P.O. BOX 708 TRUSSVILLE, AL 35173 PHONE: (205) 655-1427 FAX: (205) 661-9027	DWG. NAME SILT FENCE DETAILS & NOTES
CHECKED BY: T.L. HARDY	DATE: 11-17-08		STANDARD DETAILS FOR POWETEL / MEMPHIS, INC. LOUISVILLE, KENTUCKY
APPROVED BY:	DATE:		CAD No: LV0726_C12 SCALE: NTS DWG. No: C12

SHEET 1

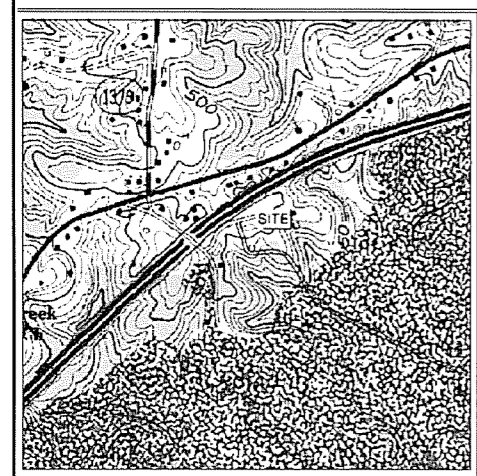
-  - VICINITY AND 500' STRUCTURAL MAP
-  - ABUTTING PROPERTY OWNERS
-  - U.S.G.S. QUAD MAP


SHEET 2

-  - PROPOSED LEASE AREA
-  - LEGAL DESCRIPTIONS
-  - FLOOD ZONE DATA

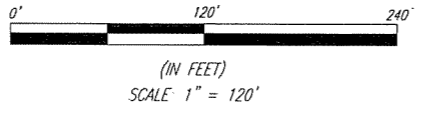
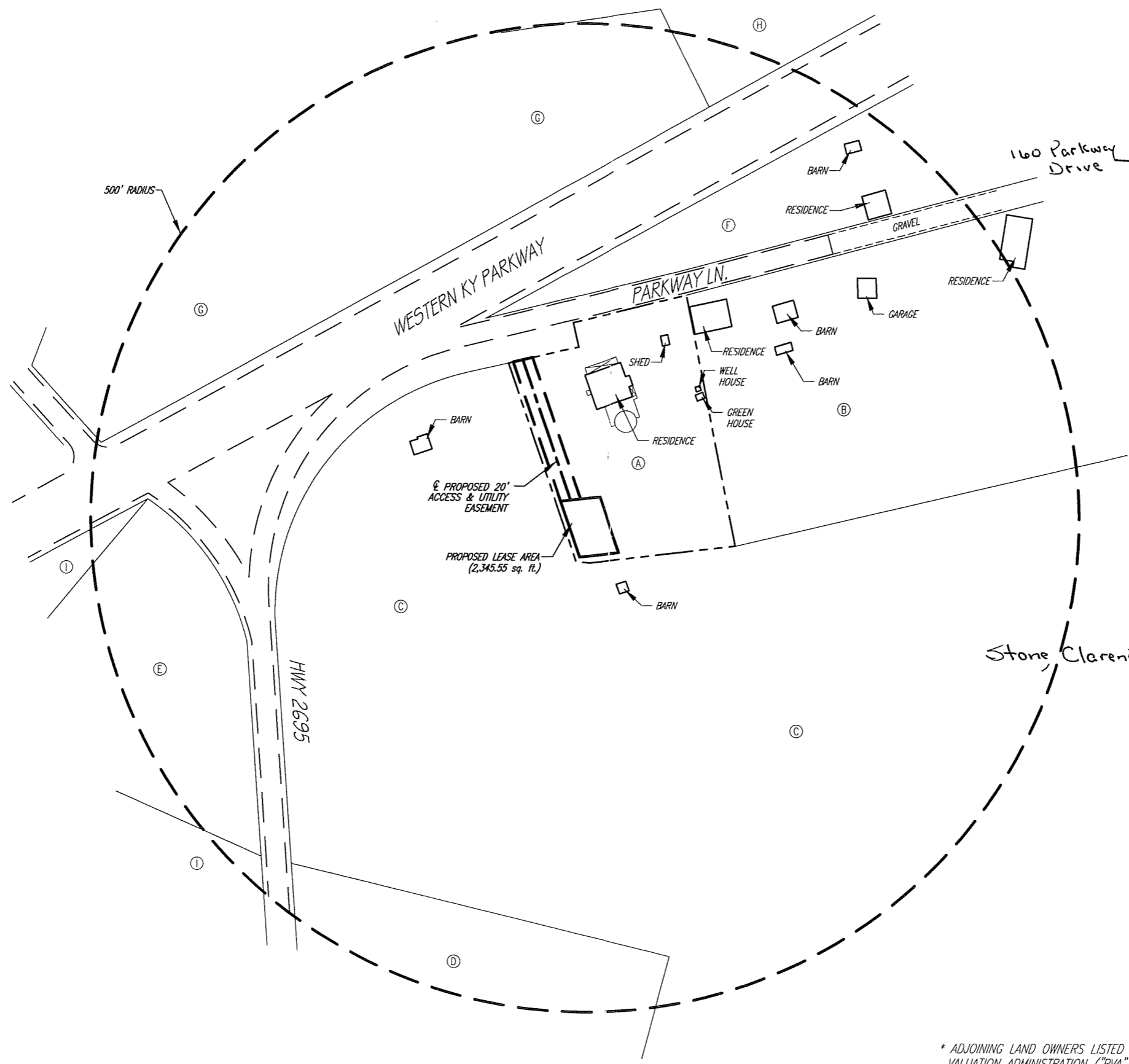


NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTHERN ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON OCTOBER 10, 2008.



 QUAD MAP SCALE: 1"=2000'

U.S.G.S. 7 1/2 MINUTE QUAD MAP OF CENTRAL CITY EAST, KY



- (A) MAP NO. 174, LOT 016
RUSS, GARY L & CHERYL
12349 U.S. HWY 62E
CENTRAL CITY, KY 42330
DEED BOOK 476, PAGE 692
NO ZONING
- (B) MAP NO. 174, LOT 017
RUSS, LUTHER & SHELLIE
5630 ST KY 70W
CENTRAL CITY, KY 40330
DEED BOOK 486, PAGE 633
NO ZONING
- (C) MAP NO. 174, LOT 018
FRANCIS, SAMUEL A
3821 AXTON LN.
GOHSEN, KY 40026
DEED BOOK 534, PAGE 184
NO ZONING
- (D) MAP NO. 174, LOT 019
FRANCIS, SAMUEL A
3821 AXTON LN.
GOHSEN, KY 40026
DEED BOOK 534, PAGE 181
NO ZONING
- (E) MAP NO. 174, LOT 015
FRANCIS, SAMUEL A
3821 AXTON LN.
GOHSEN, KY 40026
DEED BOOK 534, PAGE 172
NO ZONING
- (F) ~~MAP NO. 174, LOT 002.01
FRANCIS, SAMUEL A
3821 AXTON LN.
GOHSEN, KY 40026
DEED BOOK 534, PAGE 172
NO ZONING~~
see (B) above
- (G) MAP NO. 174, LOT 014
STERE, CLEARENCE
218 N 6TH ST
CENTRAL CITY, KY 42330
DEED BOOK 529, PAGE 758
NO ZONING
- (H) MAP NO. 174, LOT 014.002
FUEKERSON, DARELL & MARY SUE
12196 HWY 62E
CENTRAL CITY, KY 42330
DEED BOOK 529, PAGE 753
NO ZONING
- (I) MAP NO. 174, LOT 002
FRANCIS, SAMUEL A
3821 AXTON LN.
GOHSEN, KY 40026
DEED BOOK 534, PAGE 172
NO ZONING

Mobile

FS&M

F. S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217

Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

"SITE SURVEY"

SITE NUMBER:	9LV0726A
SITE NAME:	MONSANTO HAUL ROAD
SITE ADDRESS:	80 PARKWAY LANE CENTRAL CITY, KY 42330
PROPOSED T-MOBILE LEASE AREA:	AREA = 2,345.55 sq. ft.
PROPERTY OWNER:	GARY RUSS 80 PARKWAY LANE CENTRAL CITY, KY 42330
TAX MAP NUMBER:	174
PARCEL NUMBER:	16
SOURCE OF TITLE:	DEED BOOK 476, PAGE 692
DWG BY:	KLH
CHKD BY:	FSII
DATE:	10.21.08
FSTAN PROJECT NO.:	08-5670

REVISIONS:

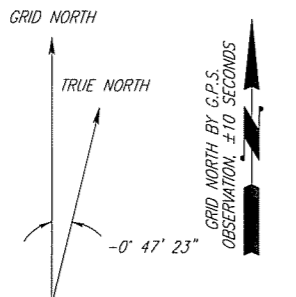
* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS ISSUED BY A REPRESENTATIVE FROM MUHLENBERG COUNTY, TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.

SHEET 1

- S1 1 - VICINITY AND 500' STRUCTURAL MAP
- S1 2 - ABUTTING PROPERTY OWNERS
- S1 3 - U.S.G.S. QUAD MAP

SHEET 2

- S2 1 - PROPOSED LEASE AREA
- S2 2 - LEGAL DESCRIPTIONS
- S2 3 - FLOOD ZONE DATA



NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTHERN ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON OCTOBER 10, 2008

SURVEYORS NOTES

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

SOURCE OF ROTATION BASED ON THE EAST PROPERTY LINE OF THE RUSS PROPERTY HAVING THE BEARING OF S 11° 47' 48" E PER D.B. 476, PG. 692, AND THE CALCULATED BEARING OF S 11° 01' 37" E.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

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.

UNDERGROUND UTILITIES

CALL 2 WORKING DAYS
BEFORE YOU DIG

INDIANA 1-800-382-5544
KENTUCKY 1-800-752-6007

UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST CALL DIRECTLY

The utility information shown on this plot, prepared by FSTAN was obtained from existing records and/or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.

LEGAL DESCRIPTIONS:

This is a description for T-Mobile, of an area to be leased from the property of Gary L. & Cheryl Russ, which is further described as follows:

PROPOSED LEASE AREA

Beginning at an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the Northwest corner of the property conveyed to Gary L. & Cheryl Russ, in Deed Book 476, Page 692, in the Office of the County Clerk of Muhlenburg County, Kentucky, being S 70°04'59" W - 76.36' to an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the North corner of the said Russ property, thence N 70°04'59" E - 15.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 18°58'25" E - 152.40' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Proposed Lease Area, thence N 83°15'16" E - 29.77' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 18°58'25" E - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 83°15'16" W - 40.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 18°58'25" W - 60.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 83°15'16" E - 10.23' to a set #5 rebar with a cap stamped "FSTAN #3282" and the true point of beginning containing 2,345.55 square feet as per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated October 23, 2008, revised October 28, 2008.

CENTERLINE OF PROPOSED 20' ACCESS & UTILITY EASEMENT

Beginning at an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the Northwest corner of the property conveyed to Gary L. & Cheryl Russ, in Deed Book 476, Page 692, in the Office of the County Clerk of Muhlenburg County, Kentucky, being S 70°04'59" W - 76.36' to an IPC (3405) found at the South Right-of-Way line of Parkway Lane, also being the North corner of the said Russ property, thence N 70°04'59" E - 15.00' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Centerline of the Proposed 20' Access & Utility Easement, thence S 18°58'25" E - 152.40' to a set #5 rebar with a cap stamped "FSTAN #3282" 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 23, 2008, revised October 28, 2008.

COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 37° 18' 48.67"
LONGITUDE: 87° 03' 08.32"
NAVD 1988
ELEVATION: 461' AMSL
STATE PLANE COORDINATE SOUTHERN ZONE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 1999900.4519
EASTING: 1261699.5058

PROJECT POWER POLE

UTILITY COMPANY: UNKNOWN
IDENTIFICATION #: N/A

PROJECT BENCHMARK

NORTH: 1999887.1819
EAST: 1261723.5821
ELEVATION: 458.21' AMSL
LOCATION: BEING A SET IPC LOCATED AT THE SOUTHEAST CORNER OF THE LEASE AREA

SYMBOL LEGEND

- WOOD POWER POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- F.P. FENCE POST
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

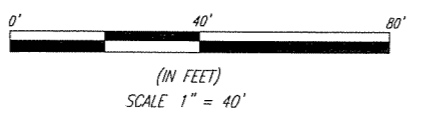
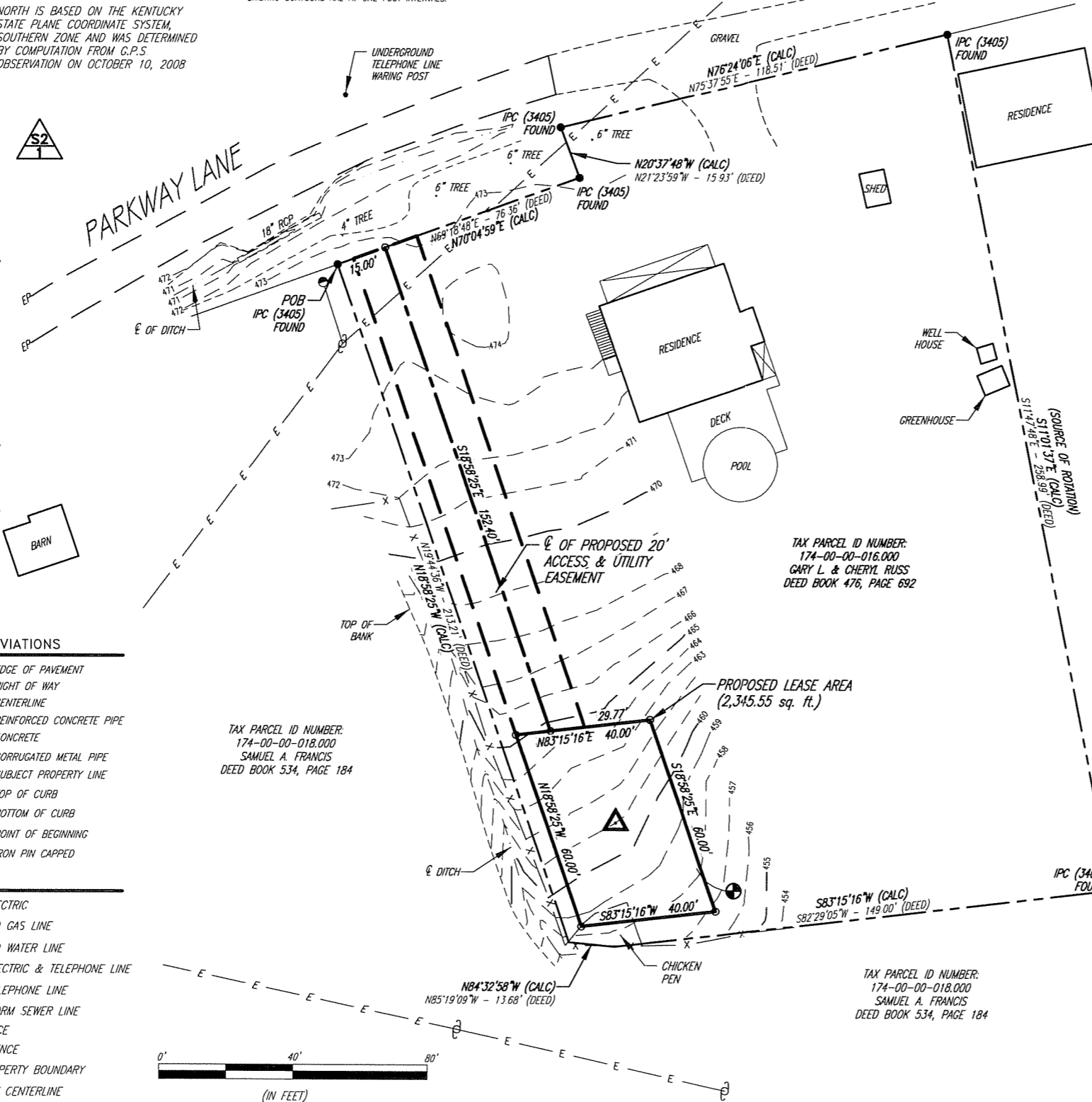
ABBREVIATIONS

- EP EDGE OF PAVEMENT
- ROW RIGHT OF WAY
- CL CENTERLINE
- RCP REINFORCED CONCRETE PIPE
- CONC CONCRETE
- CMP CORRUGATED METAL PIPE
- R SUBJECT PROPERTY LINE
- TC TOP OF CURB
- BC BOTTOM OF CURB
- POB POINT OF BEGINNING
- IPC IRON PIN CAPPED

LINE LEGEND

- OVERHEAD ELECTRIC
- UNDERGROUND GAS LINE
- UNDERGROUND WATER LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- DRAINAGE/STORM SEWER LINE
- EXISTING FENCE
- PROPOSED FENCE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE

NOTE: SYMBOLS, ABBREVIATIONS, OR LIFESTYLES DO NOT NECESSARILY APPEAR ON DRAWING(S) USE ONLY AS APPLICABLE



STATE OF KENTUCKY
FRANK L. SELLINGER
#3282
LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

Type "A" Survey - Unadjusted linear traverse closure 1 in 48,967.

TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plot 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.

Frank L. Sellinger, II 10-28-08
Ky. Reg No 3282

REFERENCED AS "EXHIBIT C"

OWNER APPROVAL: _____ DATE: _____

T-MOBILE APPROVAL: _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 210293 0050 B, 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".

FSTAN

F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17546 2313/2315 Crittenden Drive
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Phone: (502) 636-5886 (502) 636-5111
Fax: (502) 636-5243

"SITE SURVEY"

SITE NUMBER: 9LV07264

SITE NAME: MONSANTO HAUL ROAD

SITE ADDRESS: 160 PARKWAY LANE CENTRAL CITY, KY 42330

PROPOSED T-MOBILE LEASE AREA: AREA = 2,345.55 sq ft

PROPERTY OWNER: GARY L. & CHERYL RUSS 12349 U.S. HIGHWAY 62 E CENTRAL CITY, KY 42330

TAX PARCEL ID NUMBER: 174-00-00-016.000

SOURCE OF TITLE: DEED BOOK 476, PAGE 692

DWG BY: CDT

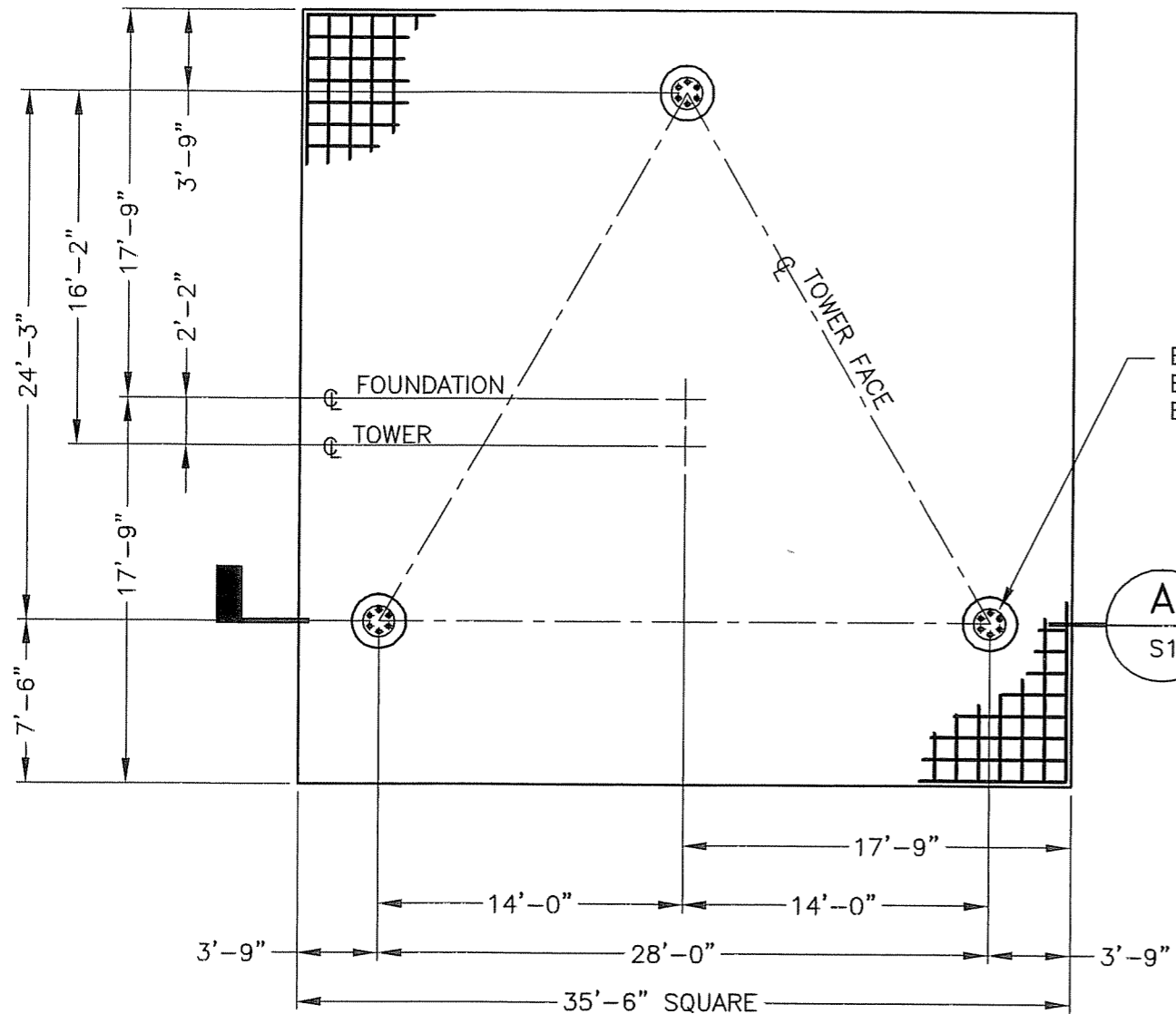
CHKD BY: FSII

DATE: 10.20.08

FSTAN PROJECT NO.: 08-5670

REVISIONS:

LEASE AREA - 10.28.08



FOUNDATION PLAN
 1/8"=1'-0"

BASE PLATE AND ANCHOR BOLT ASSEMBLY PROVIDED BY TOWER MANUFACTURER

ORIENT ANCHOR BOLTS TO CENTER OF TOWER

ANCHOR BOLTS

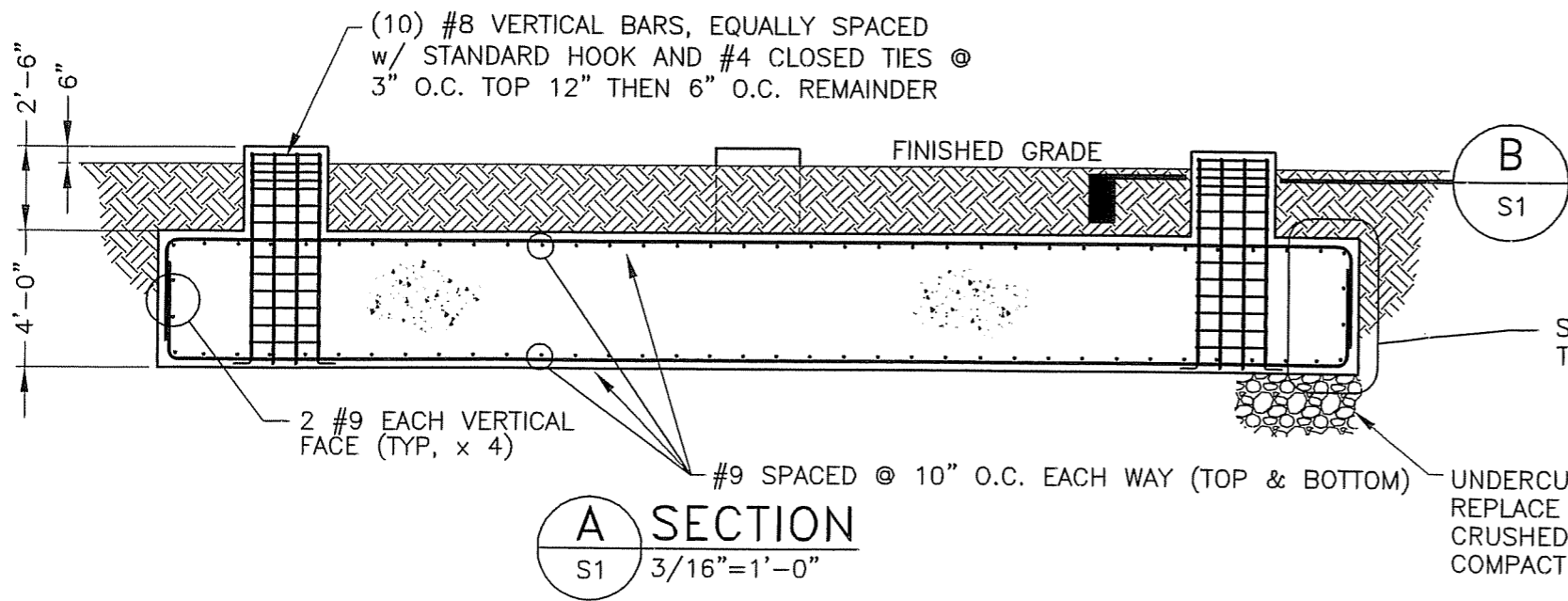
CLOSED TIE

VERTICAL BARS, EQUALLY SPACED

B SECTION
 S1 NTS

NOTE:

BASE PLATE AND ANCHOR BOLT ASSEMBLY PROVIDED BY TOWER MANUFACTURER AND SET BY CONTRACTOR.

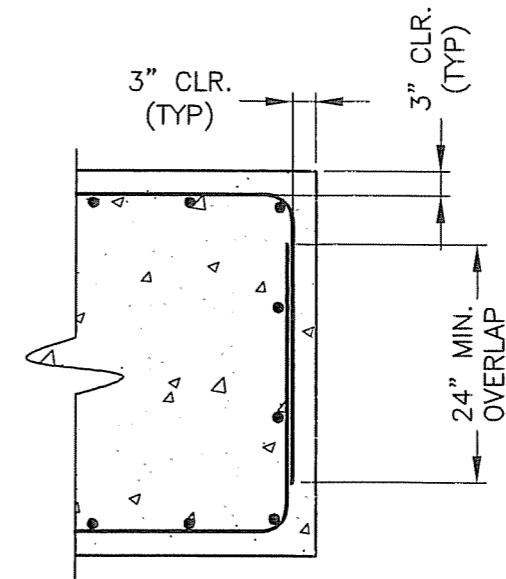


A SECTION
 S1 3/16"=1'-0"

SEE DETAIL 1, THIS SHEET

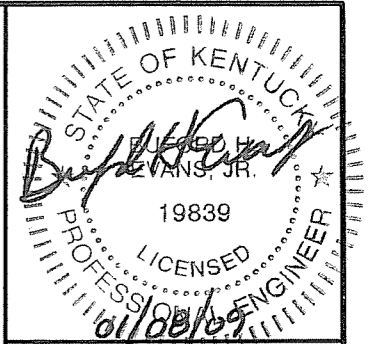
UNDERCUT 2'-0" BELOW FTG. AND REPLACE SOIL WITH KY No. 57 CRUSHED LIMESTONE. PLACE AND COMPACT PER GEOTECHNICAL REPORT.

1 DETAIL
 S1 NTS



FACTORED FOUNDATION DESIGN LOADS:

OTM = 9,117.1 KIP-FT
 TOTAL SHEAR = 68.1 KIPS
 MAX. AXIAL = 54.5 KIPS



WALKER ENGINEERING INCORPORATED
 ATLANTA • BIRMINGHAM
 8451 Dunwoody Place, Building 8, Sandy Springs, Georgia 30350
 (770) 641-7306 Fax: (770) 587-2796 www.walkerengineer.com

BY	
DATE	
REV.	
ENGINEER:	EKC
DRAWN BY:	SPH
CHECKED BY:	BHE
ORIG. ISSUE DATE:	01/08/09

SITE NAME:	MONSANTO
WEI JOB No:	0812-561
SITE No:	9LV0726A
PROJECT:	MITRIX 250ft FWT SST FOUNDATION FOUNDATION PLAN, SECTION, & DETAIL
LOCATION:	80150 PARKWAY LANE MUHLENBERG COUNTY, CENTRAL CITY, KY

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SCALE:	AS NOTED
DRAWING No.:	S1
THIS DWG SET CONSISTS OF:	2 SHEETS S1 THRU S2

GENERAL NOTES

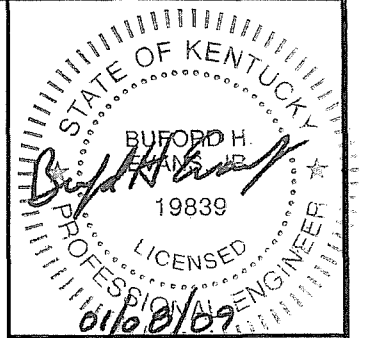
- G1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- G2. THE SIZE AND SPACING OF STRUCTURAL ELEMENTS SHALL NOT BE CHANGED WITHOUT THE ENGINEER'S APPROVAL.
- G3. DETAILS SHOWN ARE TYPICAL; THEREFORE, SIMILAR DETAILS APPLY TO SIMILAR 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. 008-221F, 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.



WALKER ENGINEERING INCORPORATED
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 8451 Dunwoody Place, Building 8, Sandy Springs, Georgia 30350
 (770) 641-7306 Fax: (770) 587-2196 www.walkerengineer.com

REV.	DATE	BY

SITE No: 9LV0726A	
SITE NAME: MONSANTO	
WEL JOB No: 0812-561	
MITRIX 250ft FWT SST FOUNDATION NOTES	
80 PARKWAY LANE MUHLENBERG COUNTY, CENTRAL CITY, KY	

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SCALE: AS NOTED	DRAWING No.:
THIS DWG SET CONSISTS OF: 2 SHEETS S1 THRU S2	S2

ACAD FILE: S:\PROJ\TWRS\MITRIX\DWGS\MITRIX-299

JOB DATA			
Page 1 of 1	Job No.	J081119001-B	
By	Design No.	S08-0471-B	
HD/tw	Date	Nov 20 2008	
Chk'd By	Rev. No.	0	Rev. Date
Structure 250-FT SST			
Ref. No. ...-0400\0471\J081119001-B\J081119001-B.out			
Design Standard ANSI/TIA-222-G-2005 Addendum 1			

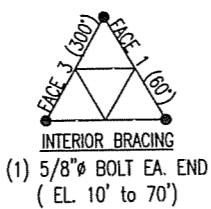
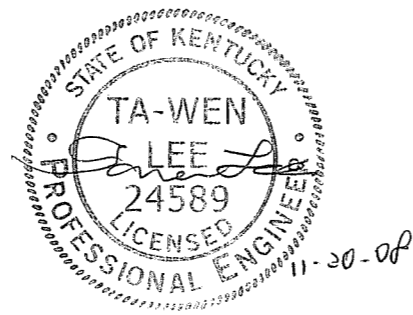
GENERAL DESIGN CONDITIONS	
Design Wind Speed: 90.00(mph)	Structure Class: II
Iced Wind Speed: 30.00(mph)	Exposure Category: C
Service Wind Speed: 60.00(mph)	Topographic Category: 1
Ice Thickness: 0.75(in)	-

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	

LINEAR APPURTENANCES	
STEP BOLTS ON ONE LEG	
(1)-Waveguide Ladder: 0'-250'	On Tower Face (AZ): 60 deg
(1)-Waveguide Ladder: 0'-235'	On Tower Face (AZ): 180 deg
(1)-Waveguide Ladder: 0'-220'	On Tower Face (AZ): 300 deg

COAXIAL LINES DISTRIBUTION				
HEIGHT	FACE 1	FACE 2	FACE 3	TOTAL
250'	18D	-	-	18
235'	-	12D	-	12
220'	-	-	12D	12

(D = DOUBLE STACKED)



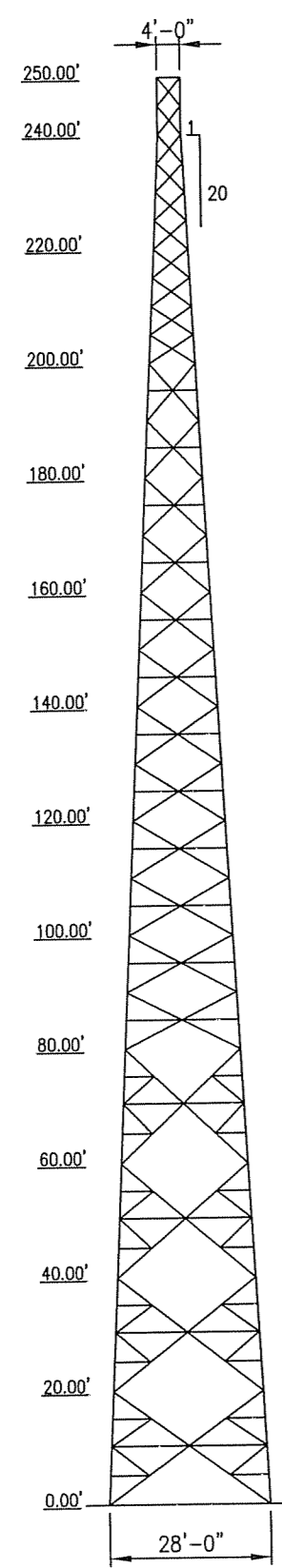
MEMBER TABLE LEGEND	
D	L3X3X3/16
G	L4X4X1/4
F	L3 1/2X3 1/2X1/4
C	L2 1/2X2 1/2X3/16
E	L3X3X1/4
B	L2X2X3/16
Y	L1 3/4X1 3/4X3/16

FACTORED BASE REACTIONS

UPLIFT/LEG:	333.7 KIPS.	O.T. MOMENT:	9117.1FT-KIPS.
COMP./LEG:	400.2 KIPS.	MAX. DOWNLOAD:	54.5 KIPS.
HORIZ./LEG:	40.3 KIPS.	TOTAL SHEAR:	68.1 KIPS.
EST.WEIGHT:	37.5 KIPS. (No SPL or Gussets)		

ASTM										
50 KSI	A36				A325				A36	
2	Y	Y	B	N/R	N/R	N/R	N/R	2-1/2	1-5/8	4-5/8
2	Y	N/R	N/R	N/R	N/R	N/R	N/R	2-1/2	N/R	4-5/8
2 1/4	Y	N/R	N/R	N/R	N/R	N/R	N/R	2-1/2	N/R	6-5/8
2 1/2	C	B	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-3/4
2 3/4	C	B	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-3/4
3	D	C	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-7/8
3 1/4	D	C	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1
3 1/4	E	D	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1
3 1/2	F	D	N/R	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1
3 1/2	CC	E	D	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1
3 3/4	DD	F	D	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1 1/8
3 3/4	DD	F	D	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1 1/8
3 3/4	DD	F	D	N/R	N/R	N/R	N/R	2-5/8	1-5/8	6-1 1/8
4	DD	G	F	D	N/R	N/R	N/R	2-5/8	1-5/8	6-1 1/8
		F	F	C	C	C	C	2-5/8	1-5/8	6-1 1/8
		D	C	C	C	C	C	2-5/8	1-5/8	6-1 1/8
		C	C	C	C	C	C	2-5/8	1-5/8	6-1 1/8
		2-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	6-1	6-1	6-1
		1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	1-5/8	6-1	6-1	6-1
		N/R	N/R	N/R	N/R	N/R	N/R	6-1 1/8	6-1 1/8	6-1 1/8

(6) - 1 3/4" x 5'-6" TOTAL ANCHOR ROD LENGTH
 (6) - 1 3/4" x 5'-6" TOTAL ANCHOR ROD LENGTH

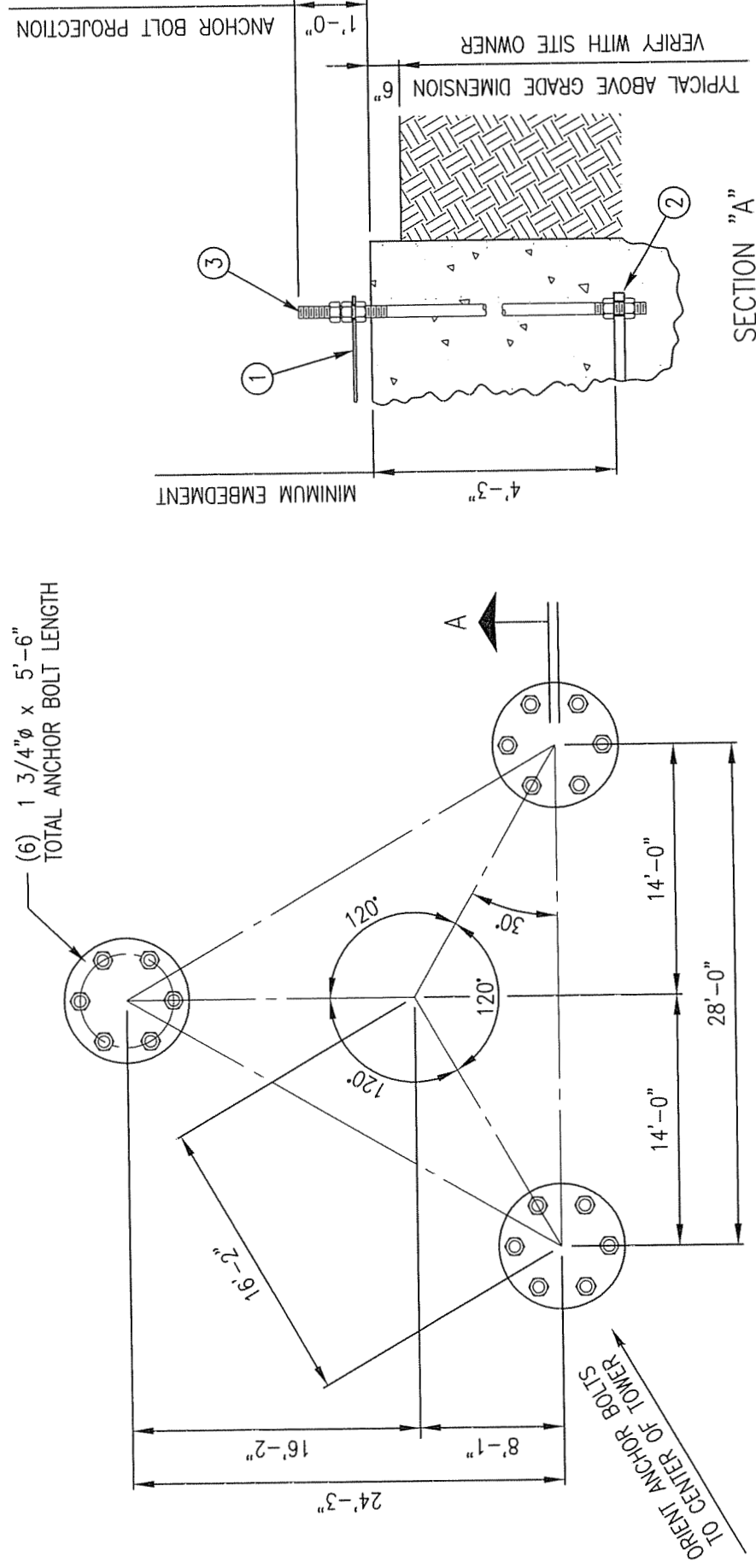


DOUBLE LETTER SIGNIFY BACK TO BACK ANGLES

FIELD NOTES:

- 1.) VERIFY TOWER ORIENTATION WITH CUSTOMER.
- 2.) TOP OF FINISHED CONCRETE MUST BE AT THE SAME ELEVATION UNDER ALL TOWER LEGS.
- 3.) SEE FOUNDATION DESIGN FOR SPECIFIC INSTALLATION INFORMATION AND DESIGN CRITERIA.
- 4.) ANCHOR BOLTS TO BE SET WITH FURNISHED ANCHOR BOLT TEMPLATES.
- 5.) ANCHOR BOLT ORIENTATION - SEE BELOW
- 6.) ANCHOR BOLT THREADS ABOVE CONCRETE SHOULD BE PROTECTED DURING FOUNDATION INSTALLATION.
- 7.) REMOVE TOP TEMPLATE PRIOR TO SETTING TOWER BASE SECTION.

(6) 1 3/4"φ x 5'-6"
TOTAL ANCHOR BOLT LENGTH



BILL OF MATERIAL				WEIGHT/lbs
ITEM	MARK NO.	QTY.	DESCRIPTION	
1	---	3	TEMPLATE @ TOP	
2	---	3	ANCHOR PLATE @ BOTTOM	
3	---	18	1 3/4"φ A36 ANCHOR ROD x 5'-6"	
4				
5				
6				
7				
8				
9				
10				
TOTAL GALVANIZED WEIGHT/lbs				

PLAN VIEW

SECTION "A"

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FWT, Inc.

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

REV.	DATE	BY	INIT.	DESCRIPTION
DRAWN BY: TLEE				
CHECKED BY: -				
CAD FILE: O:\JOB\08\119\JOB\ENGINEERING\JOB119001-B-AB\DWG\TEL\JOB119001-B-AB.DWG				
SHEET NO. NONE				
JOB NO. 20-Nov-08				
DRAWING TITLE: ANCHOR ROD INSTALLATION				
JOB NO. J08119001-B				
DRAWING NO. AB0000				
SHEET 1 OF 1				
REV. -				



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File: L:\Designs\08-0400\0471\J081119001-B\J081119001-B.out
Contract: S08-0471-B:J081119001-B Revision: 0
Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Section A: PROJECT DATA

Project Title: 250-FT:SST:13-SECTIONS
Customer Name: T-Mobile (Tennessee)
Site: 9LV0726 MONSANTO HAUL ROAD- MUHLENBURG COUNTY- KY
Contract No.: S08-0471-B:J081119001-B
Revision: 0
Engineer: HD/tw
Date: Nov 20 2008
Time: 11:53:25 AM

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: II
Exposure category: C
Topographic category: 1
Material Density: 490.1 (lbs/ft³)
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:

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



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 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	250.00	250.00	13	336.00	48.00

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. Database (lbs)		
13	2X20A000040410	240.00	250.00	48	48	438	197	0	0	634	489	0.787
12	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
Total Mass:						23116	11893	5497	713	41220	52169	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
13	2	X	(None)	Yes	5.0	48.0	48.0	(None)	(None)	(None)	0.850	17.35
13	1	X	(None)	None	5.0	48.0	48.0	(None)	(None)	(None)	0.850	17.35
12	4	X	(None)	None	5.0	54.0	48.0	(None)	(None)	(None)	0.737	15.02
12	3	X	(None)	None	5.0	60.0	54.0	(None)	(None)	(None)	0.737	15.02
12	2	X	(None)	None	5.0	66.0	60.0	(None)	(None)	(None)	0.737	15.02
12	1	X	(None)	None	5.0	72.0	66.0	(None)	(None)	(None)	0.737	15.02
11	4	X	(None)	None	5.0	78.0	72.0	(None)	(None)	(None)	0.753	15.34
11	3	X	(None)	None	5.0	84.0	78.0	(None)	(None)	(None)	0.753	15.34
11	2	X	(None)	None	5.0	90.0	84.0	(None)	(None)	(None)	0.753	15.34
11	1	X	(None)	None	5.0	96.0	90.0	(None)	(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	X	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	X	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	X	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	X	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-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

7/1	Leg	SR 3 1/4	A572 gr.50Tension	6-1.000	A325X						
7/1	Diag	L3x3x3/16	A36 Bolted	2-0.625	A325X	1.250	1.500	0.250	3.000		
7/1	SecH1	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.250	1.875		
6/2	Leg	SR 3 1/4	A572 gr.50Tension	6-1.000	A325X						
6/2	Diag	L3x3x1/4	A36 Bolted	2-0.625	A325X	1.250	1.500	0.250	3.000		
6/2	SecH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.250	1.875		
6/1	Leg	SR 3 1/4	A572 gr.50Tension	6-1.000	A325X						
6/1	Diag	L3x3x1/4	A36 Bolted	2-0.625	A325X	1.250	1.500	0.250	3.000		
6/1	SecH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.250	1.875		
5/2	Leg	SR 3 1/2	A572 gr.50Tension	6-1.000	A325X						
5/2	Diag	L3 1/2x3 1/2x1/4	A36 Bolted	2-0.625	A325X	1.250	1.750	0.250	3.000		
5/2	SecH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.250	1.875		
5/1	Leg	SR 3 1/2	A572 gr.50Tension	6-1.000	A325X						
5/1	Diag	L3 1/2x3 1/2x1/4	A36 Bolted	2-0.625	A325X	1.250	1.750	0.250	3.000		
5/1	SecH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.250	1.875		
4/1	Leg	SR 3 1/2	A572 gr.50Tension	6-1.000	A325X						
4/1	Diag	2L2 1/2x2 1/2x3/16	A36 Bolted	2-0.625	A325X	1.250	1.250	0.250	3.000	0.250	4.00
4/1	SecD1	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.250	1.875		
4/1	SecD2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.250	1.875		
4/1	SecH1	L3x3x1/4	A36 Bolted	1-0.625	A325X	1.250	1.500	0.250	1.875		
4/1	SecH2	L2x2x3/16	A36 Bolted	1-0.625	A325X	1.250	0.875	0.250	1.875		
4/1	SecH3	L2x2x3/16	A36 Bolted	1-0.625	A325X	1.250	0.875	0.250	1.875		
4/1	PlanH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.125	1.500	0.375	1.875		
3/1	Leg	SR 3 3/4	A572 gr.50Tension	6-1.125	A325X						
3/1	Diag	2L3x3x3/16	A36 Bolted	2-0.625	A325X	1.250	1.500	0.375	3.000	0.375	4.00
3/1	SecD1	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
3/1	SecD2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
3/1	SecH1	L3 1/2x3 1/2x1/4	A36 Bolted	1-0.625	A325X	1.250	1.750	0.375	1.875		
3/1	SecH2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
3/1	SecH3	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
3/1	PlanH1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.125	1.500	0.375	1.875		
2/1	Leg	SR 3 3/4	A572 gr.50Tension	6-1.125	A325X						
2/1	Diag	2L3x3x3/16	A36 Bolted	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 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
2/1	SecD2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
2/1	SecH1	L3 1/2x3 1/2x1/4	A36 Bolted	1-0.625	A325X	1.250	1.750	0.375	1.875		
2/1	SecH2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
2/1	SecH3	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
2/1	PlanH1	L3 1/2x3 1/2x1/4	A36 Bolted	1-0.625	A325X	1.125	1.750	0.375	1.875		
1/1	Leg	SR 4	A572 gr.50Tension	6-1.250	A325X						
1/1	Diag	2L3x3x3/16	A36 Bolted	2-0.625	A325X	1.250	1.500	0.375	3.000	0.375	4.00
1/1	SecD1	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.375	1.875		
1/1	SecD2	L3x3x3/16	A36 Bolted	1-0.625	A325X	1.250	1.500	0.375	1.875		
1/1	SecH1	L4x4x1/4	A36 Bolted	1-0.625	A325X	1.250	2.000	0.375	1.875		
1/1	SecH2	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
1/1	SecH3	L2 1/2x2 1/2x3/16	A36 Bolted	1-0.625	A325X	1.250	1.250	0.375	1.875		
1/1	PlanH1	L3 1/2x3 1/2x1/4	A36 Bolted	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 11:54:20 AM

Revision: 0

Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE

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-R2M	
2	0.00	235.00	LDF7P-50A	13.37	180.00	127.20	12	2		No	TMBX-6517-R2M	
3	0.00	220.00	LDF7P-50A	13.37	300.00	247.20	12	2		No	TMBX-6517-R2M	

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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Section G: WIND LOAD DATA

Load Combination Wind Only

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	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 Area (ft^2)	App.Flat Area (ft^2)	Round Area (ft^2)	App.Round Area (ft^2)	Ice Area (ft^2)	Solid Ratio	Flat Drag	Round Drag	Flat Dir	Round Dir	Eff. Area (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
	2	3.29	0.00	1.88	0.00	0.00	0.14	2.81	1.59	0.80	1.00	10.40
	1	3.41	0.00	1.88	0.00	0.00	0.13	2.83	1.60	0.80	1.00	10.75
10	2	7.86	0.00	4.17	0.00	0.00	0.14	2.82	1.59	0.80	1.00	24.35
	1	8.30	0.00	4.17	0.00	0.00	0.13	2.85	1.61	0.80	1.00	25.68
9	2	8.90	0.00	4.59	0.00	0.00	0.13	2.86	1.62	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	1.61	0.80	1.00	34.92



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 Contract: S08-0471-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

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)	Kz	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
	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 Area (ft^2)	App.Flat Area (ft^2)	Round Area (ft^2)	App.Round Area (ft^2)	Area Ice (ft^2)	Solid Ratio	Flat Drag	Round Drag	Flat Dir	Round Dir	Eff. Area (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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 Contract: S08-0471-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM 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
3	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92	0.00	-0.92	-0.87	1.64	2.84
4	TMBX-6517-R2M	4	AM110-P-12'	250	0.00	-24.92	0.00	-0.92	-0.87	1.64	-2.84
5	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-30.28	0.00	-1.10	-0.87	-3.58	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
7	TMBX-6517-R2M	4	AM110-P-12'	235	0.00	-24.92	0.00	-0.90	-0.87	1.79	-3.10
8	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-30.28	0.00	-1.08	-0.87	-3.88	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
10	TMBX-6517-R2M	4	AM110-P-12'	220	0.00	-24.92	0.00	-0.89	-0.87	1.94	-3.36

Load Combination Wind and Ice

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	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
10	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
1	1	0.00	20.00	0.85	1.00	1.41	1.332

Calculated Effective Wind Areas

Sec.	Pan.	Flat Area (ft^2)	App.Flat Area (ft^2)	Round Area (ft^2)	App.Round Area (ft^2)	Area Ice (ft^2)	Solid. Ratio	Flat Drag	Round Drag	Flat Dir	Round Dir	Eff. 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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 Contract: S08-0471-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM 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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 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 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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 Date and Time: 11/20/2008 11:54:20 AM 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. (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	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	11.3	-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 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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Contract: S08-0471-B:J081119001-B

Revision: 0

Project: 250-FT:SST:13-SECTIONS

Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE

Date and Time: 11/20/2008 11:54:20 AM

Engineer: HD/tw

3 0.0 0.0 0.0 0.0 0.00 0.00 0.00



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 Contract: S08-0471-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Sec	Pnl	Elev	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
4	1	60.00	Diag	2L2 1/2x2 1/2x3/16	29.01	182.9	12.2	43.2	11.9	11.8	0.98
3	1	40.00	Diag	2L3x3x3/16	30.48	155.8	20.3	45.7	12.4	12.3	0.61
2	1	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
13	2	245.00	Horiz	L2x2x3/16	4.00	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
10	1	180.00	SecH1	L2x2x3/16	4.76	146.4	7.5	8.3	2.6	2.6	0.35
9	2	170.00	SecH1	L2x2x3/16	5.26	161.7	6.1	8.3	2.8	2.8	0.45
9	1	160.00	SecH1	L2x2x3/16	5.75	177.0	5.1	8.3	3.1	3.1	0.61
8	2	150.00	SecH1	L2 1/2x2 1/2x3/16	6.25	153.1	8.7	10.9	3.3	3.3	0.38
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
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	PlanH1	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	PlanH1	L3 1/2x3 1/2x1/4	13.48	234.5	6.9	13.1	0.1	0.1	0.01

Load Combination Wind Only
 Wind Direction Maximum

Sec	Pnl	Elev	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
13	2	245.00	Leg	SR 2	5.00	120.0	49.3	82.3	3.5	1.1	0.07
13	1	240.00	Leg	SR 2	5.00	120.0	49.3	82.3	8.9	6.3	0.18
12	4	235.00	Leg	SR 2	5.01	120.2	49.1	82.3	14.2	11.3	0.29
12	3	230.00	Leg	SR 2	5.01	120.2	49.1	82.3	21.9	16.2	0.45



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 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

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	PlanH1	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	PlanH1	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	MType	Desc.	Len	kl/r	Gov. comp. cap.	Gov. tens. cap.	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	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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 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Sec	Pnl	Elev	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
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	8.7	10.9	6.2	6.2	0.72
2	1	20.00	SecH3	L2 1/2x2 1/2x3/16	6.25	153.1	8.7	10.9	6.2	6.2	0.72
2	1	20.00	SecD1	L2 1/2x2 1/2x3/16	7.68	188.2	5.7	10.9	4.0	4.0	0.70
2	1	20.00	SecD2	L2 1/2x2 1/2x3/16	8.33	203.9	4.9	10.9	4.0	4.0	0.82
2	1	20.00	PlanH1	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	6.5	6.5	0.61
1	1	0.00	SecH2	L2 1/2x2 1/2x3/16	6.75	165.4	7.4	10.9	6.5	6.5	0.88
1	1	0.00	SecH3	L2 1/2x2 1/2x3/16	6.75	165.4	7.4	10.9	6.5	6.5	0.88
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	0.52
1	1	0.00	PlanH1	L3 1/2x3 1/2x1/4	13.48	234.5	6.9	13.1	0.1	0.1	0.01

Sec	Pnl	Elev	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
13	2	245.00	Leg	SR 2	5.00	120.0	49.3	82.3	3.5	0.0	0.07
13	1	240.00	Leg	SR 2	5.00	120.0	49.3	82.3	4.7	0.0	0.10
12	4	235.00	Leg	SR 2	5.01	120.2	49.1	82.3	5.9	0.0	0.12
12	3	230.00	Leg	SR 2	5.01	120.2	49.1	82.3	10.2	0.0	0.21
12	2	225.00	Leg	SR 2	5.01	120.2	49.1	82.3	12.1	0.0	0.25
12	1	220.00	Leg	SR 2	5.01	120.2	49.1	82.3	13.7	0.0	0.28
11	4	215.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	18.3	0.0	0.23
11	3	210.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	20.7	0.0	0.27
11	2	205.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	22.6	0.0	0.29
11	1	200.00	Leg	SR 2 1/4	5.01	106.8	77.8	123.5	24.9	0.0	0.32
10	2	190.00	Leg	SR 2 1/2	10.02	101.8	103.6	182.5	27.6	0.0	0.27
10	1	180.00	Leg	SR 2 1/2	10.02	101.2	104.5	182.5	32.0	0.0	0.31
9	2	170.00	Leg	SR 2 3/4	10.02	91.6	144.7	182.5	35.9	0.0	0.25
9	1	160.00	Leg	SR 2 3/4	10.02	91.3	145.4	182.5	40.2	0.0	0.28
8	2	150.00	Leg	SR 3	10.02	83.4	191.5	251.8	44.1	0.0	0.23
8	1	140.00	Leg	SR 3	10.02	83.0	192.2	251.8	48.5	0.0	0.25
7	2	130.00	Leg	SR 3 1/4	10.02	76.5	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	10.02	76.1	244.7	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	Diag	L1 3/4x1 3/4x3/16	6.40	100.2	11.8	17.9	0.3	0.2	0.03
12	4	235.00	Diag	L1 3/4x1 3/4x3/16	6.56	139.3	7.2	17.9	0.4	0.1	0.05 *



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 Date and Time: 11/20/2008 11:54:20 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	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
		(ft)			(ft)						
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
11	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	Diag	L1 3/4x1 3/4x3/16	6.40	100.2	11.8	17.9	0.5	0.5	0.04
13	1	240.00	Diag	L1 3/4x1 3/4x3/16	6.40	100.2	11.8	17.9	0.6	0.6	0.05
12	4	235.00	Diag	L1 3/4x1 3/4x3/16	6.56	107.2	11.0	17.9	0.6	0.5	0.05
12	3	230.00	Diag	L1 3/4x1 3/4x3/16	6.90	112.0	10.4	17.9	1.0	0.9	0.09
12	2	225.00	Diag	L1 3/4x1 3/4x3/16	7.25	117.0	9.8	17.9	0.9	0.9	0.09
12	1	220.00	Diag	L1 3/4x1 3/4x3/16	7.62	122.2	9.1	17.9	0.9	0.9	0.10
11	4	215.00	Diag	L1 3/4x1 3/4x3/16	8.01	127.2	8.6	17.9	1.2	1.2	0.14
11	3	210.00	Diag	L1 3/4x1 3/4x3/16	8.40	132.7	7.9	17.9	1.2	1.2	0.15
11	2	205.00	Diag	L1 3/4x1 3/4x3/16	8.81	138.3	7.3	17.9	1.2	1.1	0.17
11	1	200.00	Diag	L1 3/4x1 3/4x3/16	9.22	144.1	6.7	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

File: L:\Designs\08-0400\0471\J081119001-B\J081119001-B.out
 Contract: S08-0471-B:J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Section M: SECTION PROPERTIES DATA

Sec	Pan	Memb.	Steel	Conn.	Bolts	Bolt	Bolt	End	Gusset	kl/r	Comp	Tens	Bolt	Bear.	Block
		Type	Grade	Type		Size	Grade	Dist.	Thick.		Cap.	Cap.	Cap.	Cap.	Shear
						(in)		(in)	(in)		(Kips)	(Kips)	(Kips)	(Kips)	(Kips)
13	2	Leg	A572 gr.50	Tension	4	0.625	A325X	0.938	N/A	120.0	49.3	141.5	82.3T	N/A	N/A
13	2	Diag	A36	Bolted	2	0.500	A325X	1.125	0.250	100.2	11.8	17.9	19.4S	20.6	19.1
13	2	Horiz	A36	Bolted	1	0.625	A325X	1.250	0.250	113.8	11.6	20.3	15.2S	11.1	8.3
13	1	Leg	A572 gr.50	Tension	4	0.625	A325X	0.938	N/A	120.0	49.3	141.5	82.3T	N/A	N/A
13	1	Diag	A36	Bolted	2	0.500	A325X	1.125	0.250	100.2	11.8	17.9	19.4S	20.6	19.1
12	4	Leg	A572 gr.50	Tension	4	0.625	A325X	0.938	N/A	120.2	49.1	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	19.4S	20.6	19.1
12	3	Leg	A572 gr.50	Tension	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	19.4S	20.6	19.1
12	2	Leg	A572 gr.50	Tension	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	19.4S	20.6	19.1
12	1	Leg	A572 gr.50	Tension	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	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	19.4S	20.6	19.1
11	3	Leg	A572 gr.50	Tension	6	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	6	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	6	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	19.4S	20.6	19.1
10	2	Leg	A572 gr.50	Tension	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	Tension	6	0.750	A325X	1.125	N/A	101.2	104.5	221.1	182.5T	N/A	N/A
10	1	Diag	A36	Bolted	2	0.625	A325X	1.250	0.250	152.7	8.7	26.5	30.4S	24.2	21.6
10	1	SecH1	A36	Bolted	1	0.625	A325X	1.250	0.250	146.4	7.5	20.3	15.2S	11.1	8.3
9	2	Leg	A572 gr.50	Tension	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	6	0.750	A325X	1.125	N/A	91.3	145.4	267.5	182.5T	N/A	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	15.2S	11.1	8.3
8	2	Leg	A572 gr.50	Tension	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	30.4S	24.2	22.8
8	2	SecH1	A36	Bolted	1	0.625	A325X	1.250	0.250	153.1	8.7	26.5	15.2S	11.1	10.9
8	1	Leg	A572 gr.50	Tension	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	15.2S	11.1	10.9
7	2	Leg	A572 gr.50	Tension	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	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
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 Contract: S08-0471-B;J081119001-B Revision: 0
 Project: 250-FT:SST:13-SECTIONS Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE
 Date and Time: 11/20/2008 11:54:20 AM Engineer: HD/tw

Section N: LEG REACTION DATA

Load Combination	Max Envelope				
Wind Direction	Maximum				
	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	400.16	333.72			40.27

Load Combination	Wind Only				
Wind Direction	Maximum				
Support	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	400.16	327.69			40.27

Load Combination	Wind Only - Max Tension				
Wind Direction	Maximum				
Support	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	394.13	333.72			39.94

Load Combination	Wind and Ice				
Wind Direction	Maximum				
Support	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	116.11	0.00			8.55

Load Combination	Wind Only - Serviceability				
Wind Direction	Maximum				
Support	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	123.40	78.78			11.87

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Contract: S08-0471-B:J081119001-B

Project: 250-FT:SST:13-SECTIONS

Date and Time: 11/20/2008 11:54:20 AM

Revision: 0

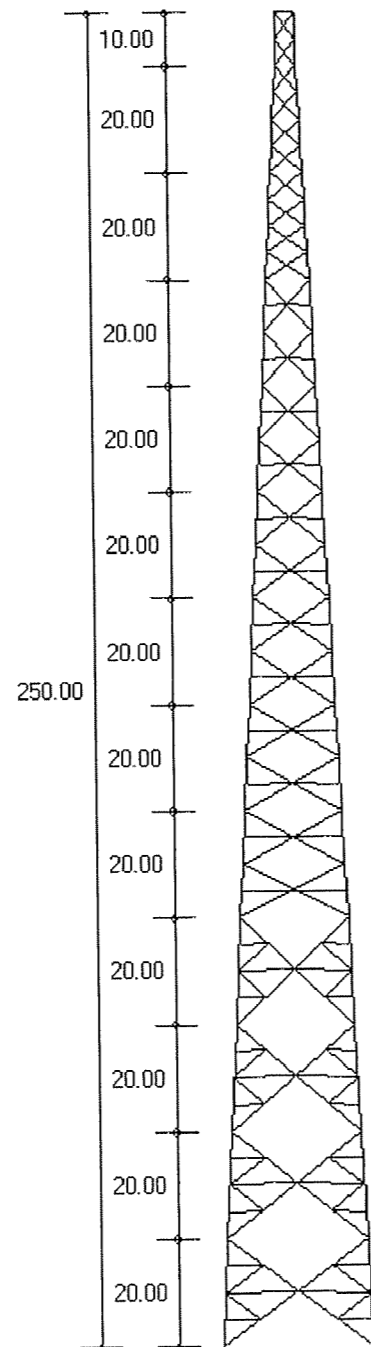
Site: 9LV0726 MONSANTO HAUL ROAD- MUHLE

Engineer: HD/tw

DESIGN SPECIFICATION

Design Standard: ANSI/TIA-222-G-2005 Add.1
 Basic Wind Speed (No Ice) = 90.0 (mph)
 Basic Wind Speed (With Ice) = 30.0 (mph)
 Design Ice Thickness = 0.75 (in)
 Structure Class = II
 Exposure Category = C
 Topographic Category = 1

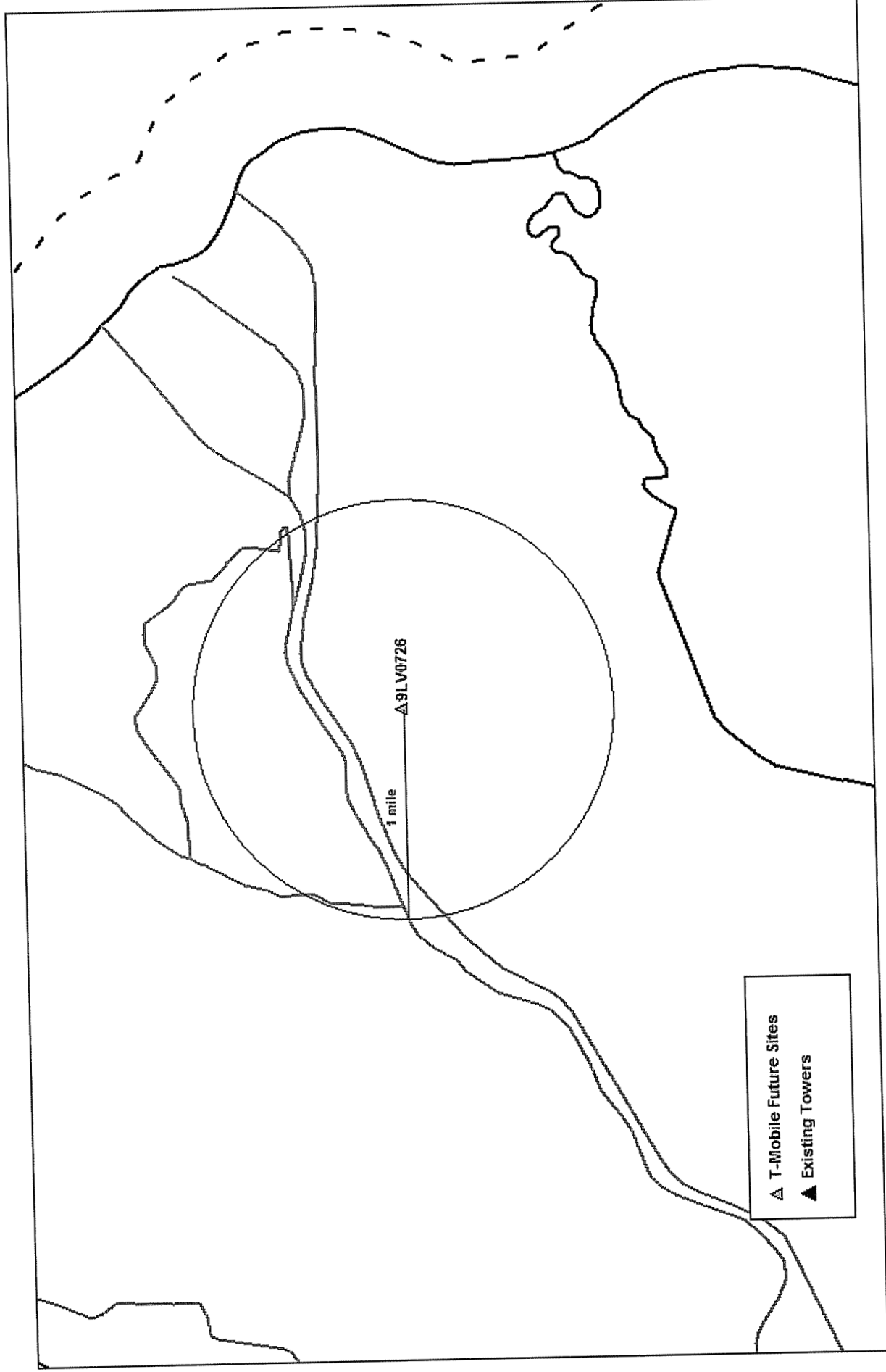
Sct.	Length (ft)	Top Width (in)	Bot Width (in)
1	20.00	312.00	336.00
2	20.00	288.00	312.00
3	20.00	264.00	288.00
4	20.00	240.00	264.00
5	20.00	216.00	240.00
6	20.00	192.00	216.00
7	20.00	168.00	192.00
8	20.00	144.00	168.00
9	20.00	120.00	144.00
10	20.00	96.00	120.00
11	20.00	72.00	96.00
12	20.00	48.00	72.00
13	10.00	48.00	48.00



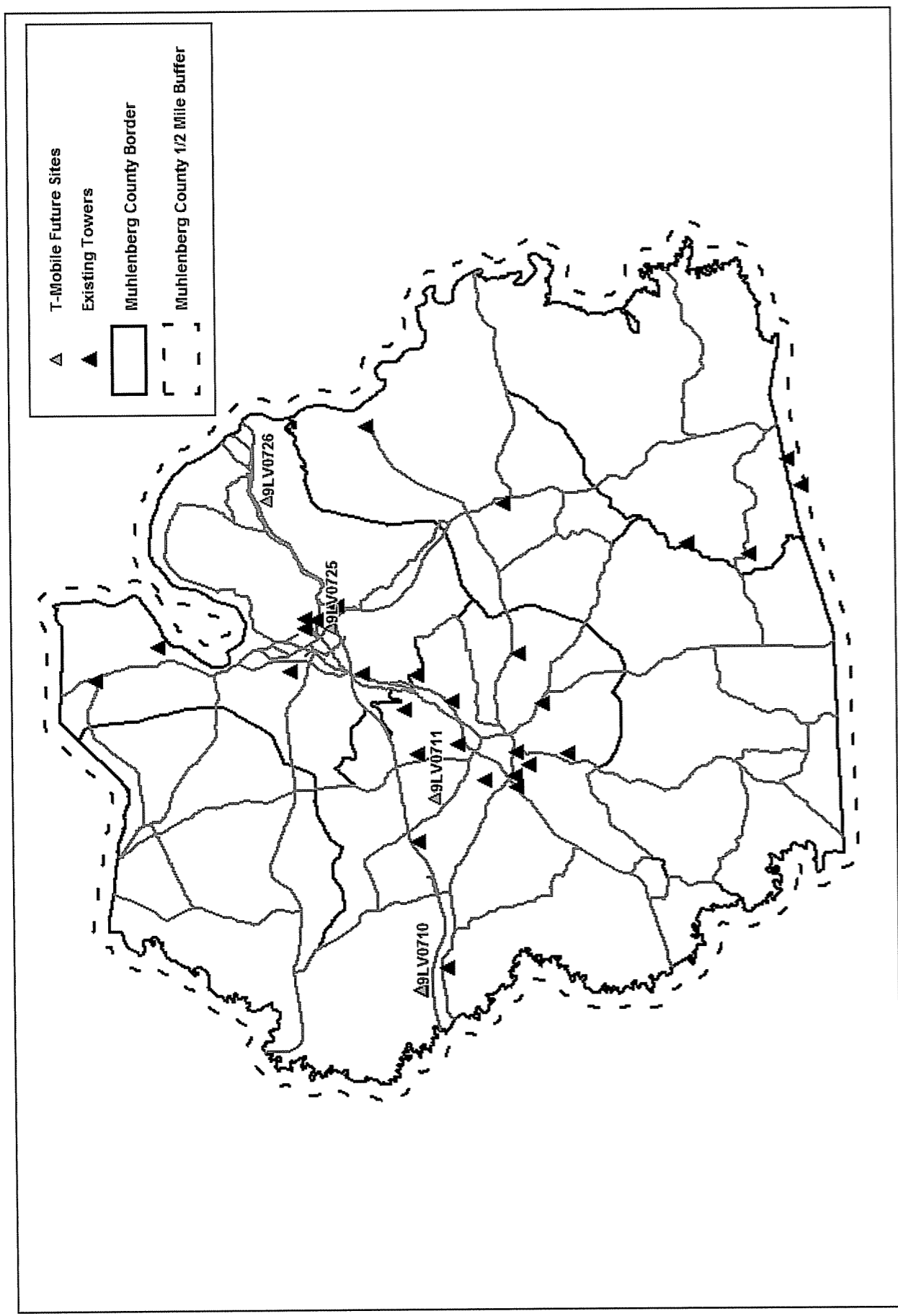
MAXIMUM BASE REACTIONS

	Bare	Iced
Download (Kips)	400.2	116.1
Uplift (Kips)	333.7	0.0
Shear (Kips)	40.3	8.6

**T-Mobile USA Site Map
9LV0726 1 Mile Radius**



T-Mobile USA Site Map Muhlenberg County Kentucky



**9LV0726A / Monsanto Haul Road
80 Parkway Lane
Central City, Muhlenberg County, Kentucky 42330
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 a 5' lightning rod for a total height of 255'. The site will be at 80 Parkway Lane in Central City, Muhlenberg County, Kentucky.

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 Greenville 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.



Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Aeronautical Study No.
2008-ASO-6028-OE

Issued Date: 11/14/2008

Ken Bischoff
T-Mobile
11509 Commonwealth Drive, Suite 9
Louisville, KY 40299

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower 9LV0726 Monsanto Hall Road
Location: Rockport, KY
Latitude: 37-18-48.67N NAD 83
Longitude: 87-03-08.32W
Heights: 250 feet above ground level (AGL)
711 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
 Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 05/14/2010 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

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

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

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

If we can be of further assistance, please contact our office at (718) 553-4542. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2008-ASO-6028-OE.

Signature Control No: 603474-103672448

(DNE)

Katie Venticinque
Technician

Attachment(s)
Frequency Data

Frequency Data for ASN 2008-ASO-6028-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

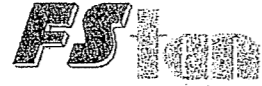
Notice of Proposed Construction or Alteration - Off Airport

Project Name: T-MOB-000106433-08 **Sponsor:** T-Mobile

Details for Case : 9LV0726 Monsanto Hall Road

Show Project Summary

Case Status		
ASN: 2008-ASO-6028-OE	Date Accepted: 10/31/2008	
Status: Accepted	Date Determined:	
	Letters: None	
	Documents: None	
Construction / Alteration Information		
Notice Of: Construction	Structure Type: Antenna Tower	
Duration: Permanent	Structure Name: 9LV0726 Monsanto Hall Road	
<i>if Temporary :</i> Months: Days:	FCC Number:	
Work Schedule - Start: 01/01/2009	Prior ASN:	
Work Schedule - End: 03/31/2009		
State Filing: Filed with State		
Structure Details		
Latitude: 37° 18' 48.67" N	Common Frequency Bands	
Longitude: 87° 3' 8.32" W	Low Freq High Freq Freq Unit ERP ERP Unit	
Horizontal Datum: NAD83	806 824 MHz 500 W	
Site Elevation (SE): 461 (nearest foot)	824 849 MHz 500 W	
Structure Height (AGL): 250 (nearest foot)	851 866 MHz 500 W	
Requested Marking/Lighting: Dual-red and medium Intensity	869 894 MHz 500 W	
<i>Other :</i>	896 901 MHz 500 W	
Recommended Marking/Lighting:	901 902 MHz 7 W	
Nearest City: Rockport	930 931 MHz 3500 W	
Nearest State: Kentucky	931 932 MHz 3500 W	
Description of Location: 160 Parkway Lane, Central City, KY 42330	932 932.5 MHz 17 dBW	
Description of Proposal: Proposing a 250' self support tower with a 10' lightning arrestor.	935 940 MHz 1000 W	
	940 941 MHz 3500 W	
	1850 1910 MHz 1640 W	
	1930 1990 MHz 1640 W	
	2305 2310 MHz 2000 W	
	2345 2360 MHz 2000 W	
	Specific Frequencies	



Land Surveyors and Consulting Engineers
Formerly F.S. Land & T. Alan Neal Companies

T-MOBILE

Date: October 20, 2008 Revised: October 28, 2008

T-Mobile
Attn: Hamlet Hope
11509 Commonwealth Drive
Louisville, Ky. 40299

Re: FAA "2-C" Letter
T-Mobile/Louisville PCS Site Name: Monsanto Haul Road
T-Mobile/Louisville PCS Site No.: 9LV0726A
Property Owner: Gary L. & Cheryl D. Russ
T-Mobile /Louisville PCS Site Locale: 80 Parkway Lane, Central City, KY 42330
FSTAN Project No: 08-5670

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".

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

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

LATITUDE: 37° 18' 48.67" NORTH LONGITUDE: 87° 03' 08.32" WEST

Ground elevation at the site is 461 FEET (AMSL)
Height of proposed monopole is 250 FEET (AGL)
Height of proposed lightning arrestor is 260 FEET (AGL)
Overall height elevation is 721 FEET (AMSL)

The accuracy of the above stated "Proposed 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 (Southern 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".

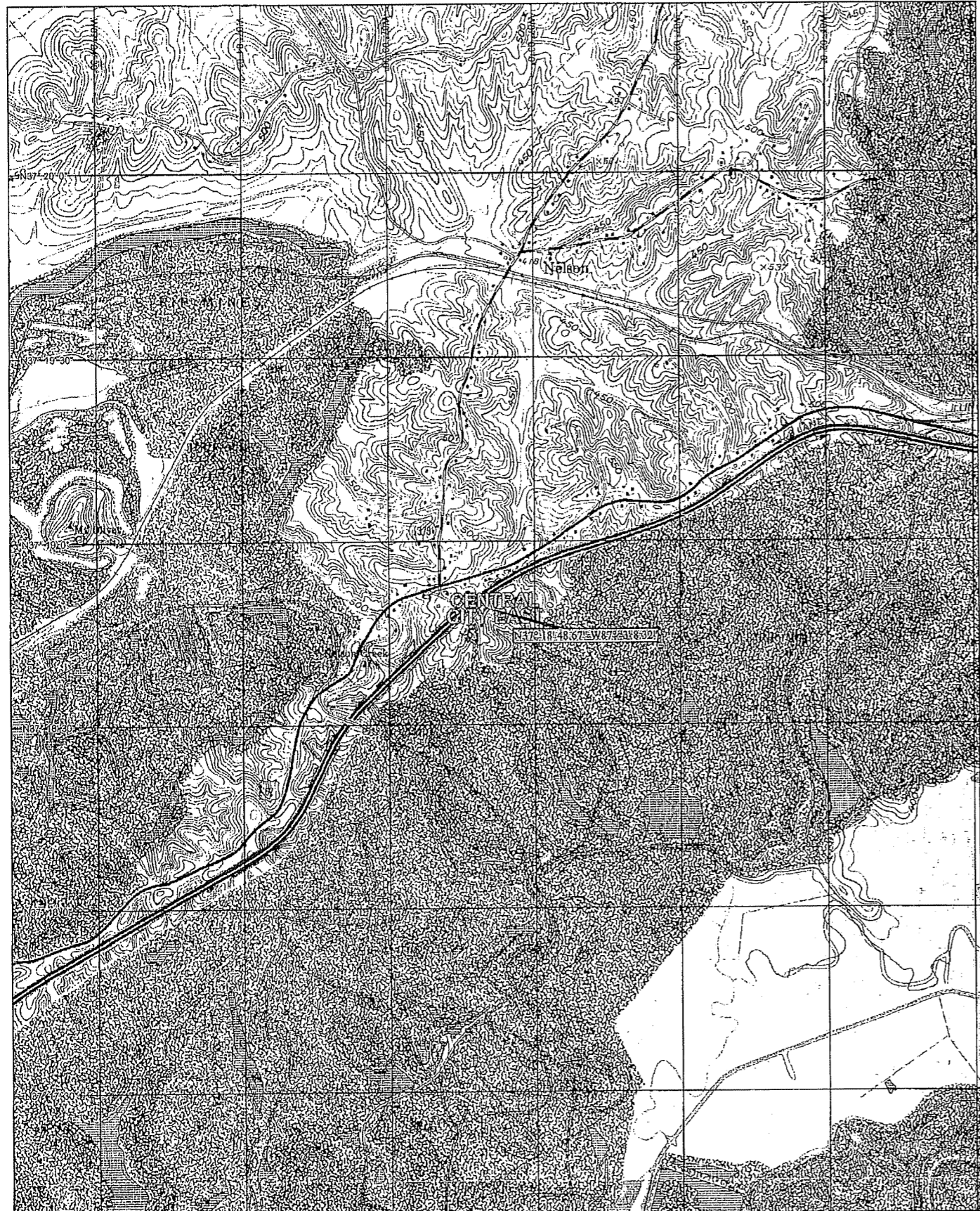
If you have any questions concerning this information please contact us at any time.

Sincerely,

STATE OF KENTUCKY
FRANK L.
SELLINGER
#3282
LICENSED
PROFESSIONAL
LAND SURVEYOR

CONSULTANT
Frank L. Sellinger
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 Airport Zoning Commission, 200 Mero Street, Frankfort, KY 40622

Kentucky Aeronautical Study Number

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

INSTRUCTIONS INCLUDED

1. APPLICANT -- Name, Address, Telephone, Fax, etc.
T-Mobile USA
ATTN: Ken Bischoff
11509 Commonwealth Dr, Suite 9
Louisville, KY 40299

9. Latitude: 37 ° 18 ' 48 " 67 "
10. Longitude: 87 ° 3 ' 8 " 32 "
11. Datum: NAD83 NAD27 Other _____

2. Representative of Applicant -- Name, Address, Telephone, Fax
T-Mobile USA
ATTN: Raffi Achiba
11509 Commonwealth Dr, Suite 9
Louisville, KY 40299

12. Nearest Kentucky City: Rockport County Muhlenburg
13. Nearest Kentucky public use or Military airport:
Muhlenburg County Airport
14. Distance from #13 to Structure: 7.23 nm
15. Direction from #13 to Structure: 223.55

3. Application for: New Construction Alteration Existing
4. Duration: Permanent Temporary (Months _____ Days _____)
5. Work Schedule: Start _____ End _____
6. Type: Antenna Tower Crane Building Power Line
 Landfill Water Tank Other _____

16. Site Elevation (AMSL): 461.00 Feet
17. Total Structure Height (AGL): 260.00 Feet
18. Overall Height (#16 + #17) (AMSL): 721.00 Feet

7. Marking/Painting and/or Lighting Preferred:
 Red Lights and Paint Dual - Red & Medium Intensity White
 White - Medium Intensity Dual - Red & High Intensity White
 White - High Intensity Other _____

19. Previous FAA and/or Kentucky Aeronautical Study Number(s):

20. Description of Location: (Attach USGS 7.5 minute Quadrangle Map or an Airport layout Drawing with the precise site marked and any certified survey)
Site will be located at:
160 Parkway Lane,
Central City, KY 42330

8. FAA Aeronautical Study Number: T-MOB-000106433-08

21. Description of Proposal:

Erection of a self support tower.

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration?

No Yes, When October 31, 2008

CERTIFICATION: I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge and belief.

Raffi Achiba
Printed Name and Title

Signature

10/31/2008
Date

PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050:Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Non-compliance with Federal Aviation Administration Regulations may result in further penalties.

Commission Action:

Chairman, KAZC Administrator, KAZC

Approved

Disapproved

Date _____

ASHER, INC.

Environmental & Engineering Consulting

November 14, 2008

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

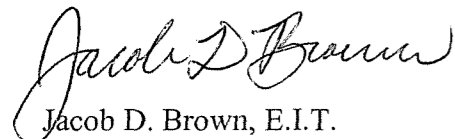
RE: Geotechnical Engineering Study
Proposed Communications Tower
Monsanto Site
Central City, Kentucky
Muhlenberg County

Dear Mr. Rhudy,

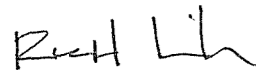
Asher, Inc. has completed a Geotechnical Engineering Study for the above referenced project. This report contains the findings of our subsurface exploration, geotechnical recommendations to aid design of foundations, and construction recommendations with regard to site work; fill placement, and foundation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

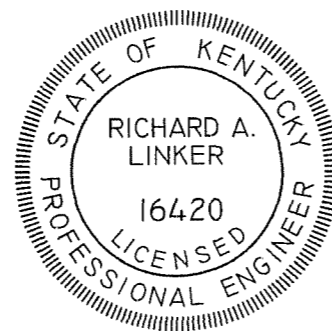


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1.0 PROJECT INFORMATION

The site is located to the rear of the residence at 160 Parkway Lane in Central City, KY. The proposed lease area is located at the southwest corner of above referenced property. The area currently consists of a well-maintained grass lawn. The area slopes downhill to the southeast. No ponding water was observed at the time of our site visit.

Proposed for construction is a 250 ft. lattice tower and access road. The tower is expected to have mat foundations bearing on sandstone bedrock with drilled shafts. We assume that 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 to 6 in. surficial layer of topsoil was encountered in the borings. Beneath the topsoil, natural sandy orange-brown lean clay was encountered to a depth of about 3 to 4 ft. The lean clay was noted to be stiff to hard with Standard Penetration Test results (N Values) ranging from 14 to 50+ blows per ft. Auger refusal was encountered in both borings at depths ranging from 3.1 to 3.9 ft. Two 5 ft. rock core runs were advanced in Boring B-1 from 3.9 to 13.9 ft. Sound, continuous Caseyville Formation sandstone was encountered. The sandstone was observed to be very friable during coring operations. Asher observed the core water washing the sandstone out of the hole during drilling.

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 suitable for the anticipated loading on shallow mat foundations. Drilled piers bearing on sound continuous bedrock may also be used if deemed to be more economical.

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. Due to the presence of saturated soils at the expected bearing depth, we recommend that the footing excavations be extended about 2 ft. below the expected bearing depth. The undercut soils should be replaced with KY No. 57 crushed limestone. A vibratory plate compactor can be used to compact the crushed stone. Site Classification B can be used for seismic design. We estimated foundation settlements should not exceed about 1 in. Differential settlement 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.)

Building Foundations

The proposed equipment cabinet(s) can be supported on conventional shallow foundations. The footings can be proportioned using a net allowable bearing capacity of 3,000 psf. Site Classification B 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 4-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 3 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.

In areas that would be limited to automobiles and light trucks, the following asphalt or granular pavement sections are recommended.

<i>Light Truck Areas</i>	4.0 in. KY DGA 6.0 in. KY No. 3 Crushed Limestone 6 oz. Nonwoven Filter Fabric
<i>Light Truck Areas</i>	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

Based on the existing elevations across the site and the shallow depths to rock encountered in our borings, we recommend that soil or granular fill be used to raise the grades at the project site to alleviate the need for rock removal during site 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). The geotechnical engineer or his representative should monitor engineered fill placement and compaction operations.

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

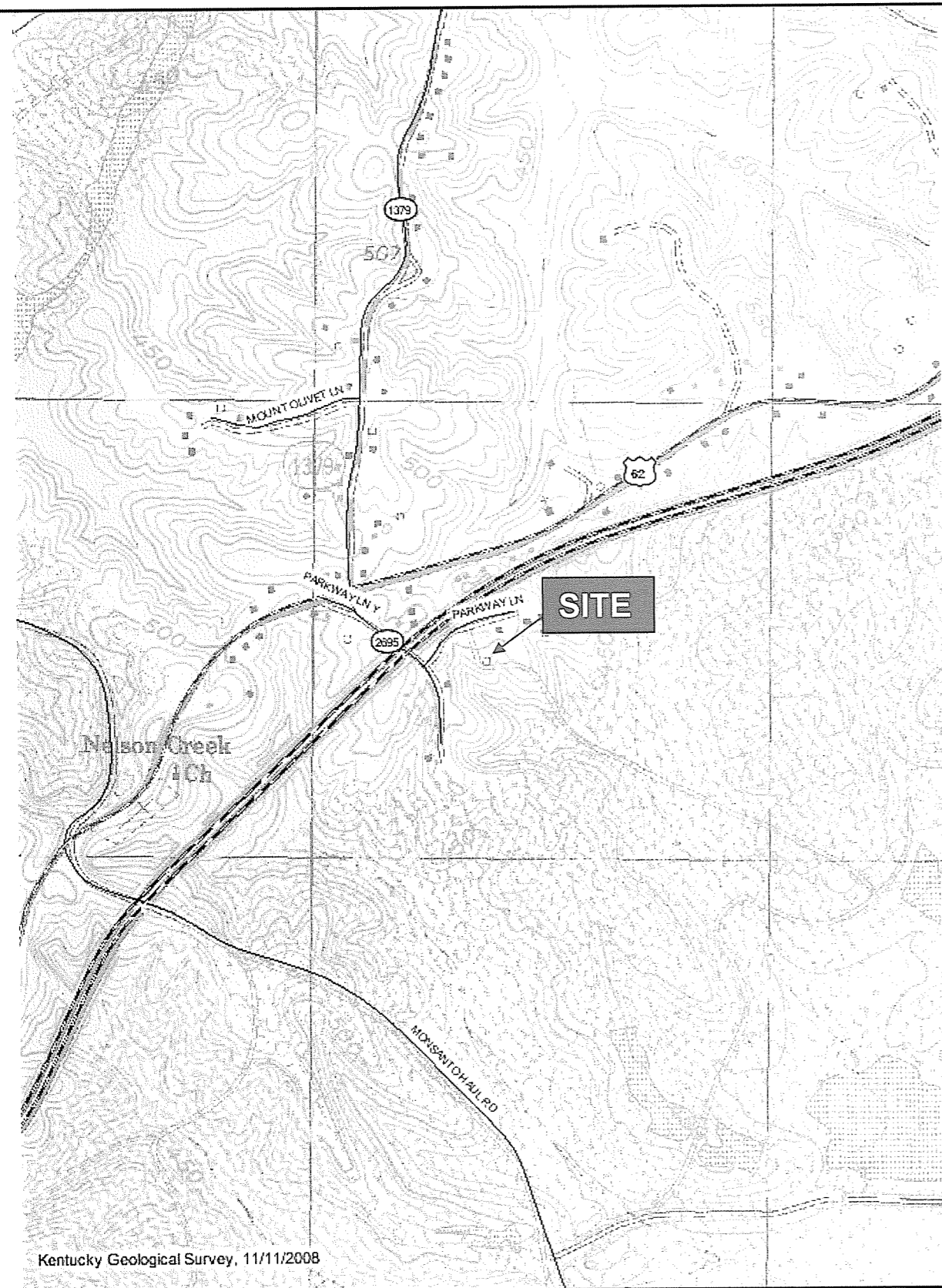
Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. Asher, Inc. is not responsible for 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
Location of Test Borings
Test Boring Logs**

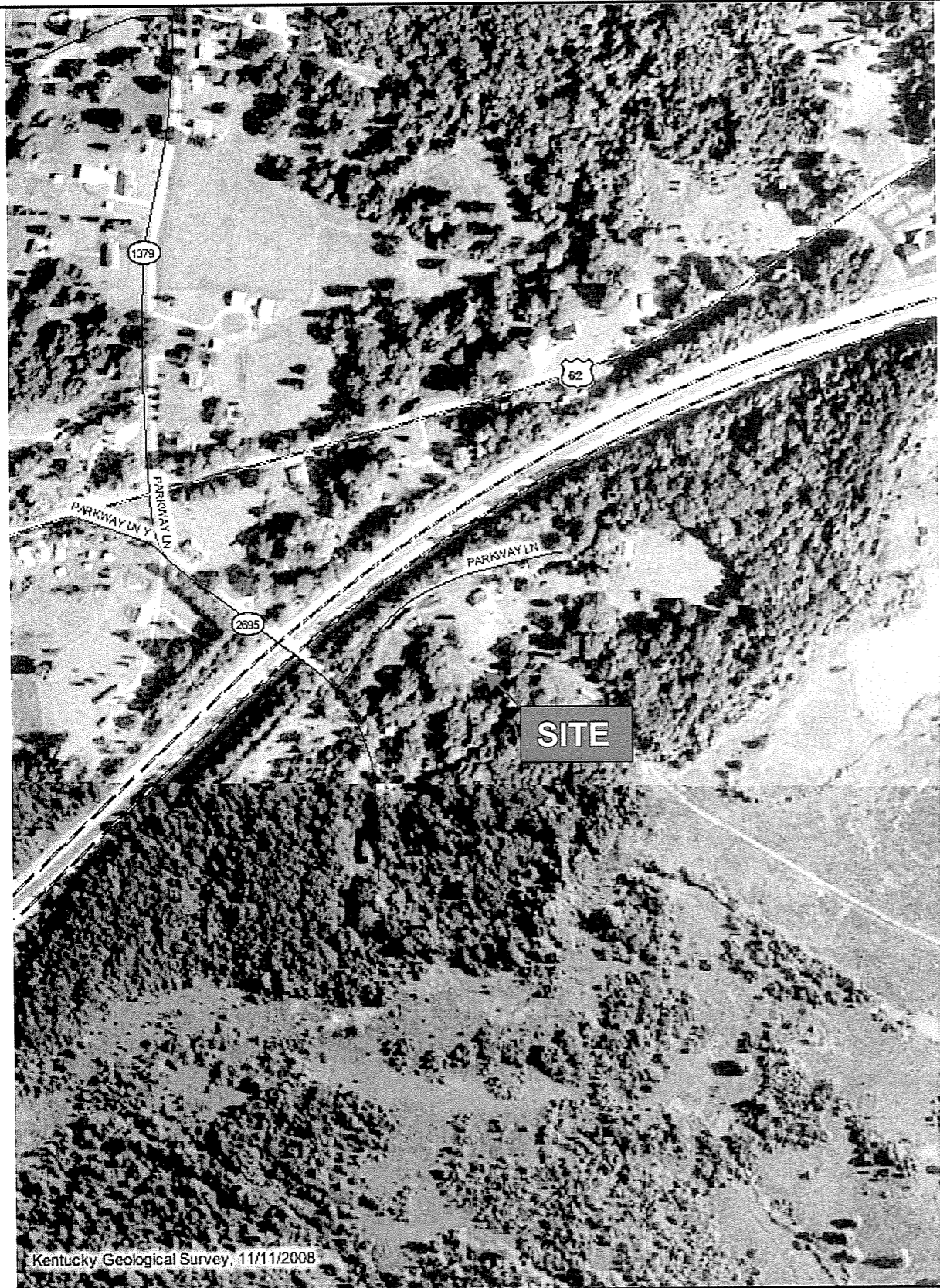


Kentucky Geological Survey, 11/11/2008

ECA

ASHER, INC.

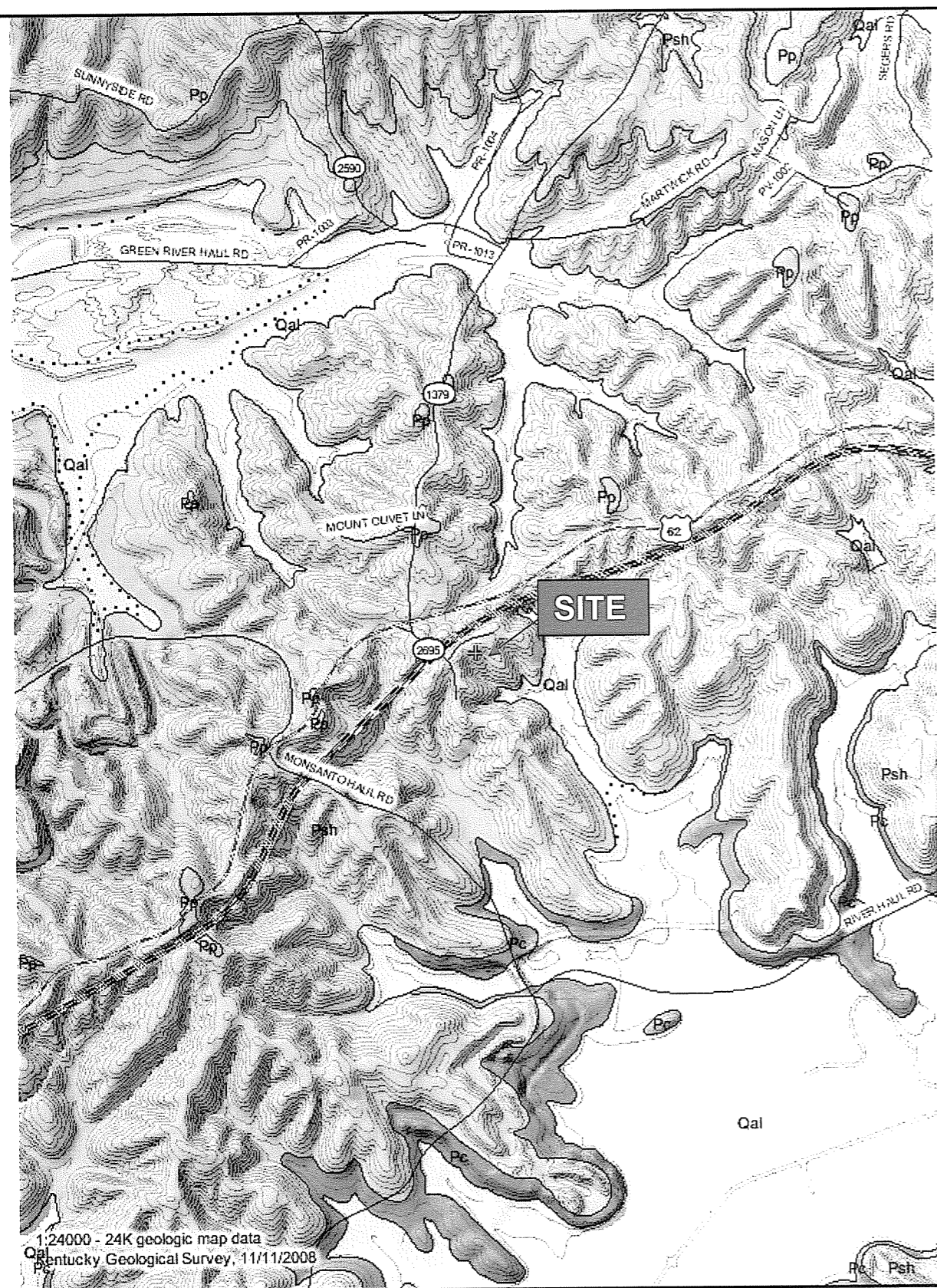
Figure 1 - Site Location Plan
 Monsanto Tower Site
 Central City, Kentucky
 Muhlenberg County
 Asher Project Number: 008-221F



ECA

ASHER, INC.

Figure 2 – Aerial Photo
Monsanto Tower Site
Central City, Kentucky
Muhlenberg County
Asher Project Number: 008-221F



ECA

ASHER, INC.

Figure 3 – Geologic Map
 Monsanto Tower Site
 Central City, Kentucky
 Muhlenberg County
 Asher Project Number: 008-221F

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









Geologic Units In Current View:

1:24,000 scale data (detailed geology)

Qal	Alluvium (Quaternary - Quaternary)
Pp	Patoka Formation (Middle Pennsylvanian - Upper Pennsylvanian)
Psh	Shelburn Formation (Lower Pennsylvanian - Middle Pennsylvanian)
Pc	Carbondale Formation (Lower Pennsylvanian - Middle Pennsylvanian)

Symbols:

- contacts / structural features:

	geologic contact
	contact - concealed
	contact - secondary
	contact - projected
	fault
	fault - concealed
	fault - secondary
	fault - projected



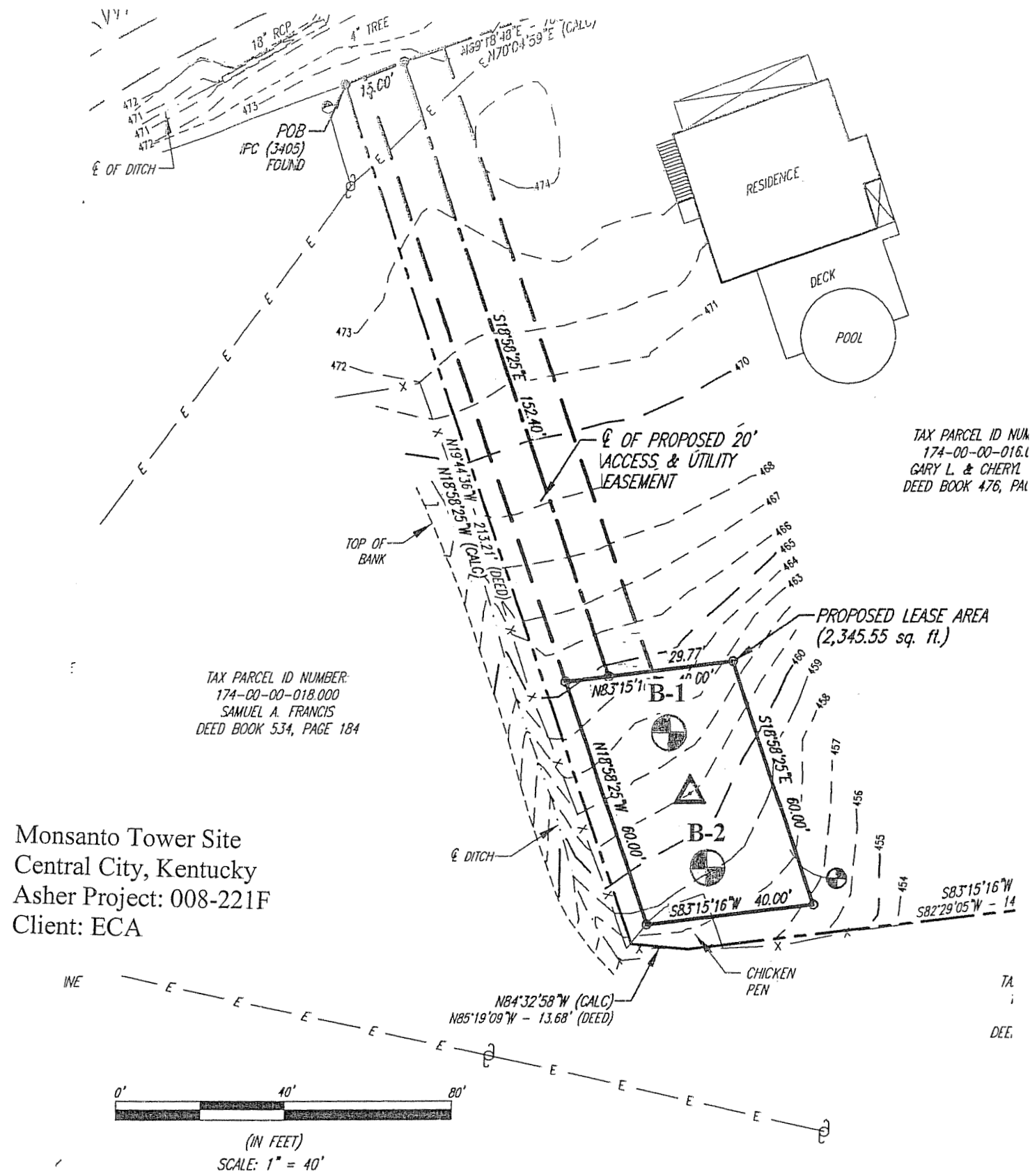
fossil location

PRINT THIS PAGE

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.

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



BORING LOCATION PLAN (FIGURE 4)

BORING LOG

ASHER, INC.
 P.O. Box 17534
 Louisville, KY 402017
 (502) 589-0073

Boring No.: B-1

ELEV.: 462.0

Project: Monsanto Tower Site Asher Project No.: 008-221F

Location: Central City, KY

Client: ECA Date: November 10, 2008

Elev (feet)	Depth (feet)	Sample Number	SPT Blows / 6"	N	Percent Moisture	Description of Material
		1	5-8-13	21		LEAN CLAY (CL), sandy, VERY STIFF to HARD, orangish brown, moist
		2	12-32-50/4	50+	11.2	AUGER REFUSAL AT 3.9 FT.
458.1	5		Rec. (%)		RQD (%)	
			0		0 Very Poor	SANDSTONE, HARD, friable, orangish brown
	10		72		0 Very Poor	SANDSTONE, HARD, friable, orangish brown
	15					CORING TERMINATED AT 13.9 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.
 Low recovery and RQD values due to rock being friable.

BORING LOG

ASHER, INC.
 P.O. Box 17534
 Louisville, KY 402017
 (502) 589-0073

Boring No.: B-2

ELEV.: 459.0

Project: Monsanto Tower Site Asher Project No.: 008-221F

Location: Central City, KY

Client: ECA

Date: November 10, 2008

Elev (feet)	Depth (feet)	Sample Number	SPT Blows / 6"	N	Percent Moisture	Description of Material
		1	3-5-9	14		LEAN CLAY (CL), sandy, STIFF to HARD, orangish brown, moist
		2	11-20-50/4	50+	14	
455.9	5					AUGER REFUSAL AT 3.1 FT.
	10					
	15					
	20					
	25					

Notes: No groundwater was encountered during drilling.
 Topsoil - 6 in.
 Elevations were interpolated from the supplied Topographic Survey performed by FS Tan.











T-Mobile/"Monsanto Haul Road"/Case No. 2009-00022
Directions from County Seat/County Judge Executive
Office
131 E. Main Cross Street, Greenville, Kentucky to
Cell Tower Site at 80 Parkway Lane, Central City, KY

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


Total Time: 19 minutes Total Distance: 12.26 miles

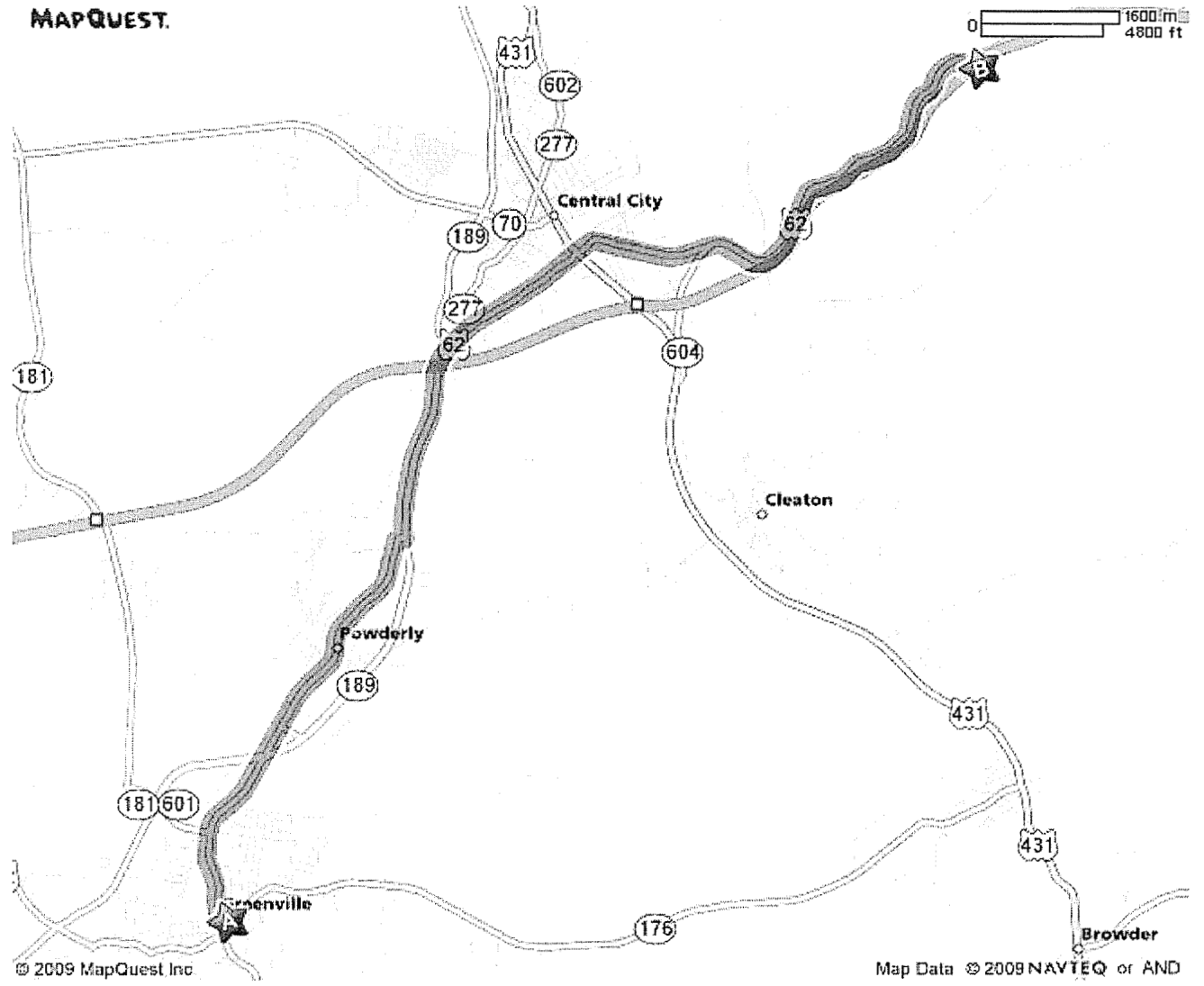
A: 131 E Main Cross St, Greenville, KY 42345-1577

- | | | |
|---|---|--------|
|  | 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. Continue to follow US-62/N MAIN ST. | 0.9 mi |
|  | 3: Turn RIGHT onto US-62/N MAIN ST. Continue to follow US-62. | 3.2 mi |
|  | 4: Turn LEFT onto US-62 E/EVERLY BROTHERS BLVD/KY-189 N. Continue to follow US-62 E/EVERLY BROTHERS BLVD. | 3.5 mi |
|  | 5: Turn SLIGHT RIGHT onto US-62/EVERLY BROTHERS BLVD. Continue to follow US-62. | 4.3 mi |
|  | 6: Turn RIGHT onto HOWERTON RD. | 0.2 mi |
|  | 7: Turn LEFT onto PARKWAY LN. | 0.1 mi |
|  | 8: End at 80 Parkway Ln Central City, KY 42330-5182 | |

B: 80 Parkway Ln, Central City, KY 42330-5182

Total Time: 19 minutes Total Distance: 12.26 miles

 Speak your request and go! Free MapQuest directions by phone: 1-800-FREE411 (1-800-373-3411).



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expeditiousness. You assume all risk of use. MapQuest and its suppliers shall not be liable to you for any loss or delay resulting from your use of
MapQuest. Your use of MapQuest means you agree to our [Terms of Use](#)

SITE LEASE WITH OPTION

THIS SITE LEASE WITH OPTION (this "Lease") is by and between Gary L. Russ and Cheryl D. Russ, an individual ("Landlord") and Powertel/ Memphis, Inc., a Delaware corporation ("Tenant").

1. Option to Lease.

(a) In consideration of the payment of ~~XXXXXXXXXXXXXXXXXXXX~~ (the "Option Fee") by Tenant to Landlord, Landlord hereby grants to Tenant an option to lease a portion of the real property described in the attached Exhibit A (the "Property"), on the terms and conditions set forth herein (the "Option"). The Option shall be for an initial term of twelve (12) months, commencing on the Effective Date (as defined below) (the "Option Period"). The Option Period may be extended by Tenant for an additional twelve (12) months upon written notice to Landlord and payment of the sum of ~~XXXXXXXXXXXXXXXXXXXX~~ ("Additional Option Fee") at any time prior to the end of the Option Period.

(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 no cost to Landlord, to obtain a title report, zoning approvals and variances, land-use permits. Landlord expressly grants to Tenant a right 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 Landlord 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 Exhibit B (collectively referred to hereinafter as the "Premises"). The Premises, located at 80 Parkway Lane, Central City, KY 42330, comprises approximately 2,500 square feet.

2. Term. The initial term 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. Tenant 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, Tenant shall pay Landlord or designee, as rent, ~~XXXXXXXXXXXXXXXXXXXX~~ per month ("Rent"). The first payment of Rent shall be due within twenty (20) days following the Commencement Date and shall be prorated 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 Tenant) at a time other than on the last day of a month, Rent shall be prorated 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 Term and any Renewal Terms, monthly Rent shall be adjusted, effective on the first day of each year of the Initial or Renewal Term, and on each such subsequent anniversary thereof, to an amount equal to ~~XXXXXXXXXXXXXXXXXXXX~~ of the monthly Rent in effect immediately prior to the adjustment date.

5. Permitted Use. 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.

6. Interference. Tenant shall not use the Premises in any way which interferes with the use of the Property by Landlord or lessees or licensees of Landlord with rights in the Property prior in time to Tenant's (subject to Tenant's rights under this Lease, including, without limitation, non-interference). Similarly, Landlord shall not use, nor shall Landlord permit its lessees, licensees, employees, invitees or agents to use, any portion of the Property in any way which interferes with the operations of Tenant. Such interference shall be deemed a material breach by the interfering party, who shall, upon written notice from the other, be responsible for terminating said interference. In the event any such interference does not cease promptly, the parties acknowledge that continuing interference may cause irreparable injury and, therefore, the injured party shall

have the right, in addition to any other rights that it may have at law or in equity, to bring 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 Premises 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"). Tenant shall have the right to alter, replace, expand, enhance and upgrade the Antenna Facilities at any time during the term of this Lease. Tenant shall cause all construction to occur lien free and in compliance with all applicable laws 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 Easements (as defined below). The Antenna Facilities shall remain the exclusive property of Tenant 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) Tenant, at its expense, may use any and all appropriate means of restricting access to the Antenna Facilities, including, without limitation, the construction of a fence.

(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). Landlord 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, Landlord hereby grants Tenant easements on, under and across the Property for ingress, egress, utilities and access (including 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 "Easements"). The Easements provided hereunder shall have the same term as this Lease.~~

(f) Tenant shall have 24-hours-a-day, 7-days-a-week access to the Premises at all times during the Initial Term of this Lease 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 herein, this Lease may be terminated, without any penalty or further liability as follows:

(a) upon thirty (30) days' written notice by Landlord if Tenant fails to cure a default for payment of amounts due under this Lease within such thirty (30) day period;

(b) immediately upon written notice by Tenant if Tenant notifies Landlord of any unacceptable results of any Tests prior to Tenant's installation of the Antenna Facilities on the Premises, or if Tenant does not obtain, maintain, or otherwise forfeits or cancels any license (including, without limitation, an FCC license), 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 if Tenant determines that the Property or the Antenna Facilities are inappropriate or unnecessary 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 abate 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 Tenant'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 herein 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 thirty (30) days' written notice specifying such failure of performance or default.

~~10. Taxes. 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, Tenant 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 Facilities, 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 Tenant's installation, Landlord shall provide timely notice of the assessment to Tenant sufficient to allow Tenant 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 Tenant 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 Tenant for the Premises or the Property, Tenant 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 Indemnification.

~~(a) Tenant will maintain Commercial General Liability Insurance in amounts of One Million and no/100 Dollars (\$1,000,000.00) per occurrence and Two Million and no/100 Dollars (\$2,000,000.00) aggregate. Tenant may satisfy this requirement by obtaining the appropriate endorsement to any master policy of liability insurance Tenant may maintain.~~

(b) Landlord 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 respective first party property insurance policies for all perils insured thereunder. In the event of 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 11(b), 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 attorney fees, to the extent caused by or arising out of the negligent acts or omissions or willful misconduct 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 Lease. The indemnifying party's 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 expiration or termination of this Lease.~~

(c) Tenant shall not be responsible to Landlord, 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 U.S. mail, certified and postage paid, or upon receipt if 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:
T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006
Attn: PCS Lease Administrator

With a copy to:
Attn: Legal Dept.
12920 SE 38th Street
Bellevue, WA 98006

And with a copy to:
Powertel/ Memphis, Inc.
2001 Butterfield Road, Suite 1900
Downers Grove, IL 60515
Attn: Lease Administration Manager

If to Landlord, to:
Gary L. Russ
80 Parkway Lane
Central City, KY 42330

Send Rent payments to:
Gary and Cheryl Russ
80 Parkway Lane
Central City, KY 42330

13. Quiet Enjoyment, Title 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 Tenant that (i) Landlord has full right, power and authority to execute and perform this Lease; (ii) Landlord has good and *unencumbered* fee title to the Property free and clear of any liens or mortgages, except those heretofore disclosed in writing to Tenant 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. Environmental Laws. Landlord represents that it has no knowledge of any substance, chemical or waste (collectively, "Hazardous Substance") on the Property that is identified as hazardous, toxic or dangerous in any applicable federal, state or local law or regulation. Landlord and Tenant 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 not caused solely by Tenant, that have occurred or which may occur on the Property. Each party agrees to defend, indemnify and hold harmless the other from and against any and all administrative and judicial actions and rulings, claims, causes of action, demands and liability (collectively, "Claims") including, but not limited to, damages, costs, expenses, assessments, penalties, fines, losses, judgments and reasonable attorney fees that the indemnitee may suffer or incur due to the existence of any Hazardous Substances on the Property or the migration of any Hazardous Substance to other properties or the release of any Hazardous Substance into the environment (collectively, "Actions"), that relate to or arise from the indemnitor's activities on the Property. Landlord agrees to defend, indemnify 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 Easements (as defined above) granted herein upon written notice to Landlord. Upon such assignment, Tenant 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 Easements granted herein, upon written notice to Tenant 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 Tenant which may be withheld in Tenant's sole discretion. Upon Tenant's receipt of (i) an executed deed or assignment and (ii) an IRS Form W-9 from assignee, and subject to Tenant's consent, if required, Landlord shall be relieved of all liabilities and obligations hereunder and Tenant 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 (and as regards the Tenant, in the Antenna Facilities), and may collaterally assign this Lease (and as regards the Tenant, in the Antenna Facilities) 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. Successors and Assigns. This Lease and the Easements granted herein shall run with the land, and shall be binding upon and inure to the benefit of the parties, their respective successors, personal representatives and assigns.

17. Waiver of Landlord's Lien. Landlord hereby waives any and all lien rights it may have, statutory or otherwise, concerning the Antenna Facilities or 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 Landlord gives Tenant 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. Miscellaneous.

(a) The prevailing party in any litigation arising hereunder shall be entitled to reimbursement from the other party of its reasonable attorneys' 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) Landlord agrees to cooperate with Tenant in executing any documents necessary to protect Tenant's rights in or use of the Premises. A Memorandum of Lease in substantially the form attached hereto as Exhibit 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 Tenant a non-disturbance and attornment agreement for each such mortgage or deed of trust, in a form reasonably acceptable to Tenant.

(e) Tenant may obtain title insurance on its interest in the Premises. Landlord 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 Memorandum 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 exhibit(s).

(k) If either party is represented by any broker or any other leasing agent, such party is responsible for all commission fee or other payment to such agent, and agrees to indemnify and hold the other party harmless 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 "Effective Date").

LANDLORD: Gary L. Russ

By: Gary L. Russ
Printed Name: GARY L. RUSS
Title: _____
Date: 3-20-09

LANDLORD: Cheryl D. Russ

By: Cheryl D. Russ
Printed Name: Cheryl D. Russ
Title: _____
Date: 3-20-09

TENANT: Powertel/ Memphis, Inc.

By: _____
Printed Name: Kim Curtis
Title: Regional Development Director
Date: _____

T-Mobile Legal Approval

EXHIBIT A
Legal Description

The Property is legally described as follows:

[Enter legal description here or on attachment(s).]

Beginning at an Iron Pin Set in the South right-of-way line of the Commonwealth of Kentucky, Department of Transportation as shown on right-of-way of the Western Kentucky Turnpike as an "Old County Road" and in the east line of Clarence Stone and wife, Jean Stone, as recorded in Deed Book 407, page 518; said Iron Pin lies 30 feet from the center of said road and South 32° 16' 56" East a distance of 62.38 feet from a Right-of-Way Fence Corner Post, said post being 95 feet right of Western Kentucky Parkway Centerline Station 4648+00; thence with the Kentucky Department of Transportation for the next two (2) calls: North 69° 18' 48" East a distance of 76.36 feet to an Iron Pin Set 30.00 feet right of centerline station 56 + 75 of said road; North 21° 23' 59" West a distance of 15.93 feet to an Iron Pin Set 15 feet South of the center of a private drive, formerly an old county road, said Iron Pin being a new corner with the tract of land of which this is a part; thence with a new division for the next two (2) calls:

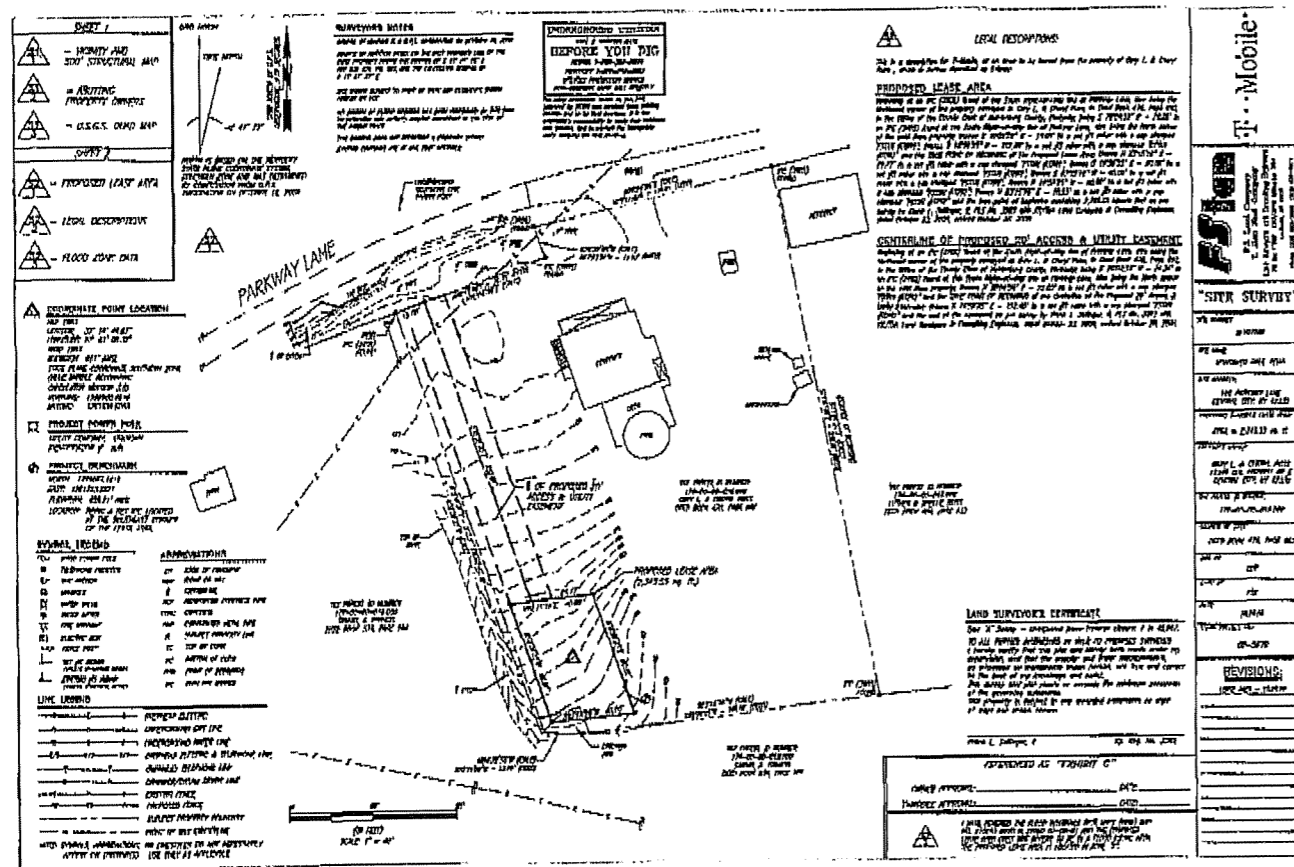
North 75° 37' 55" East a distance of 118.51 feet to an Iron Pin Set 15 feet South of the Center of said private drive; South 11° 47' 48" East a distance of 258.99 feet to an Iron Pin Set in an existing fence, said Iron Pin being in the North line of Clarence Stone; thence with Stone's line and said fence for the next two (2) calls: South 82° 29' 05" West a distance of 149.00 feet; North 85° 19' 09" West a distance of 13.68 feet to a Fence Corner Post; thence with Stone North 19° 44' 36" West a distance of 213.21 feet; which is the point of beginning, having an area of 42650.07 square feet, 0.979 acres according to a survey performed by Marshall Curry, P.L.S. No. 3405 on April 3, 1999, according to the plat attached hereto.

"All coal, oil, gas and minerals are reserved to the extent same are reserved by former deeds of record."

Being a part of the same property conveyed to Luther Russ and wife, Shelly Russ, or survivor, from William Albert Merten, a widower, by deed dated June 22, 1983, of record in Deed Book 356, page 379, in the office of the Muhlenberg County Clerk; and, being the same property conveyed to Luther Russ and wife, Shelly Russ, or the survivor, from Clarence Stone, et al., pursuant to the Boundary Line Agreement of record in Deed Book 426, page 689, in the office of the Muhlenberg County Clerk.

EXHIBIT B

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



Site Number: 9LV0726
Site Name: UMonanto Hmd RdU
Market: UJ,misvilleU

EXHIBIT C

**Memorandum
of
Lease**

MEMORANDUM OF LEASE
Assessor's Parcel Number: 174-00-00-016

Between Gary L. Russ and Cheryl D. Russ ("Landlord") and Powertel/ Memphis, Inc. ("Tenant")

A Site Lease with Option (the "Lease") by and between Gary L. Russ and Cheryl D. Russ, a(n) individual ("Landlord") and Powertel/ Memphis, Inc., a Delaware corporation ("Tenant") was made regarding a portion of the following property:

See Attached Exhibit "A" incorporated herein for all purposes

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

The Lease is for a term of five (5) years and will commence on the date as set forth in the Lease (the "Commencement 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.

LANDLORD: Gary L. Russ

By: _____
Printed Name: _____
Title: _____
Date: _____

LANDLORD: Cheryl D. Russ

By: _____
Printed Name: _____
Title: _____
Date: _____

TENANT: Powertel/ Memphis, Inc.

By: _____
Printed Name: Kim Curtis
Title: Regional Development Director
Date: _____
Printed Name: _____

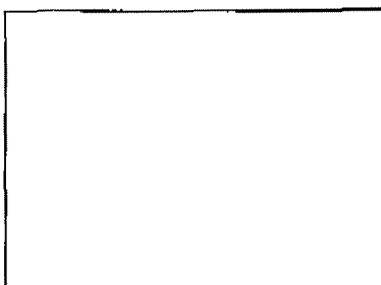
[Notary block for Landlord]

[Landlord Notary block for an Individual]

STATE OF _____)
) ss.
COUNTY OF _____)

This instrument was acknowledged before me on _____ by Gary L. Russ.

Dated: _____



Notary Public
Print Name _____
My commission expires _____

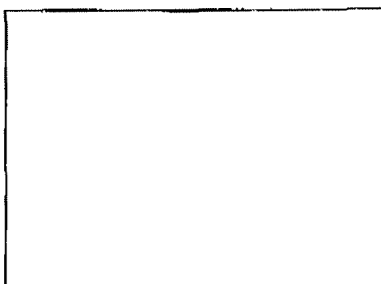
(Use this space for notary stamp/seal)

[Landlord Notary block for an Individual]

STATE OF _____)
) ss.
COUNTY OF _____)

This instrument was acknowledged before me on _____ by Cheryl D. Russ.

Dated: _____



Notary Public
Print Name _____
My commission expires _____

(Use this space for notary stamp/seal)

Memorandum of Lease Exhibit A
Legal Description

The Property is legally described as follows:

Beginning at an Iron Pin Set in the South right-of-way line of the Commonwealth of Kentucky, Department of Transportation as shown on right-of-way of the Western Kentucky Turnpike as an "Old County Road" and in the east line of Clarence Stone and wife, Jean Stone, as recorded in Deed Book 407, page 518; said Iron Pin lies 30 feet from the center of said road and South 32° 16' 56" East a distance of 62.38 feet from a Right-of-Way Fence Corner Post, said post being 95 feet right of Western Kentucky Parkway Centerline Station 4648+00; thence with the Kentucky Department of Transportation for the next two (2) calls: North 69° 18' 48" East a distance of 76.36 feet to an Iron Pin Set 30.00 feet right of centerline station 56 + 75 of said road; North 21° 23' 59" West a distance of 15.93 feet to an Iron Pin Set 15 feet South of the center of a private drive, formerly an old county road, said Iron Pin being a new corner with the tract of land of which this is a part; thence with a new division for the next two (2) calls:

North 75° 37' 55" East a distance of 118.51 feet to an Iron Pin Set 15 feet South of the Center of said private drive; South 11° 47' 48" East a distance of 258.99 feet to an Iron Pin Set in an existing fence, said Iron Pin being in the North line of Clarence Stone; thence with Stone's line and said fence for the next two (2) calls: South 82° 29' 05" West a distance of 149.00 feet; North 85° 19' 09" West a distance of 13.68 feet to a Fence Corner Post; thence with Stone North 19° 44' 36" West a distance of 213.21 feet; which is the point of beginning, having an area of 42650.07 square feet, 0.979 acres according to a survey performed by Marshall Curry, P.L.S. No. 3405 on April 3, 1999, according to the plat attached hereto.

"All coal, oil, gas and minerals are reserved to the extent same are reserved by former deeds of record."

Being a part of the same property conveyed to Luther Russ and wife, Shelly Russ, or survivor, from William Albert Merten, a widower, by deed dated June 22, 1983, of record in Deed Book 356, page 379, in the office of the Muhlenberg County Clerk; and, being the same property conveyed to Luther Russ and wife, Shelly Russ, or the survivor, from Clarence Stone, et al., pursuant to the Boundary Line Agreement of record in Deed Book ~~476~~, page ~~682~~, in the office of the Muhlenberg County Clerk.

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.

Section 7(a), (c) and (g) have been deleted and replaced with the following:

7. Improvements; Utilities; Access.

(a) Tenant shall have the right, at its expense, to erect and maintain on the Premises 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"). Tenant shall have the right to alter, replace, expand, enhance and upgrade the Antenna Facilities at any time during the term of this Lease. Tenant shall cause all construction to occur lien-free and in compliance with all applicable laws 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 Easements (as defined below). The Antenna Facilities shall remain the exclusive property of Tenant 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. Tenant shall remove all above ground improvements of the Antenna Facilities and all below ground improvements of the Antenna Facilities to a depth of 24" within 120 days following the expiration or early termination of this Lease.

(c) As partial consideration for Rent paid under this Lease, Landlord hereby grants Tenant easements on, under and across the Property for ingress, egress, utilities and access (including 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 "Easements"). The Easements provided hereunder shall have the same term as this Lease. Landlord agrees not to interfere with, block or restrict Tenant's vehicular and pedestrian access to any portion of the Premises.

(g) Landlord shall maintain and repair all existing 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. Any new access roadways required by Tenant for access to the Premises will be installed, maintained and repaired at the cost of Tenant, except for any damage to such new access roadways caused by Landlord or its guests or invitees.

Section 10 has been deleted and replaced with the following:

10. Taxes. Landlord shall pay when due all real property taxes for the Property, as assessed by the taxing authority of the appropriate jurisdiction. In the event that Landlord fails to pay any such real property taxes or other fees and assessments not directly attributable to Tenant's installation, Tenant 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 Facilities, 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 Tenant's installation, Landlord shall provide timely notice of the assessment to Tenant sufficient to allow Tenant to consent to or challenge such assessment, whether in a Court, administrative proceeding, or other venue, on behalf of Landlord and/or Tenant. Tenant will provide the Muhlenburg County Tax Assessor, Planning and Zoning department and the Permitting Department with a legal description of the Premises as well as Tenant's noticing information. Tenant will not pay any taxes prior to the Commencement Date of this Lease. Further, Landlord shall provide to Tenant 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.

Section 11(a), (c) and (d) have been deleted and replaced with the following:

11. Insurance and Subrogation and Indemnification.

(a) Tenant will maintain in force during the term of this Lease, at its own expense, the following insurance coverage, if applicable:

- (i) Workmen's Compensation and Occupational Disease Disability insurance as required by the laws of the State of Kentucky.
- (ii) Employer's Liability Insurance with limits of \$1,000,000 each occurrence, unless the laws of the state of which the work is to be performed preclude an independent right of action by an employee against an employer under common laws.
- (iii) Comprehensive Automobile Liability insurance with Bodily Injury limits of \$1,000,000 each person and \$1,000,000 each accident and Property Damage with a limit of \$1,000,000 each accident.
- (iv) Comprehensive General Liability and Property Damage insurance including Operations, Protective, Contractual Liability, and Bodily Injury coverage with \$2,000,000 combined single limit which may be satisfied by any combination of primary and excess liability coverage.

Tenant shall provide Landlord with a certificate of insurance evidencing the foregoing insurance coverage to be written in a reliably sound and substantial insurance company. The certificate of insurance shall name the Landlord as an additional insured and provide a thirty (30) day notice of cancellation clause.

(c) Tenant agrees to indemnify and hold Landlord harmless by reason of liability to any state, federal or local governmental agency or authority imposed on or asserted against Landlord for any violation of any applicable state, federal or local statute, regulation or ordinance committed by Tenant or its employees, or agents on or affecting the Premises.

(d) Tenant agrees to indemnify and hold Landlord harmless against any and all claims, damages, loss and expense, including reasonable attorneys' fees and other reasonable legal expenses, by reason of liability imposed or claimed to be imposed by law for damage because of bodily injuries (including death) or on account of damage to property, sustained by any person or persons, arising out of or in consequence of Tenant's occupancy or use of the Premises under this Lease whether or not such bodily injuries, death or damage to property arise or are claimed to have arisen in whole or in part out of the negligence or any other grounds of legal liability, including violation of any duty imposed by a statute, ordinance or regulation on the part of Tenant, its employees, or agents, excluding, however, any liability caused by the sole negligence or willful misconduct of Landlord or its agents.

Section 15 has been deleted and replaced with the following:

15. Assignment and Subleasing. Tenant shall have the right to assign or otherwise transfer this Lease and the Easements (as defined above) granted herein upon written consent from Landlord, which will not be unreasonably withheld, conditioned, delayed or denied. Notwithstanding the foregoing restriction, Landlord's consent shall not be required for an assignment to (a) any parent, subsidiary or affiliated company of Tenant; (b) any successor to Tenant by merger, stock purchase or acquisition of assets as a going concern; or (c) any entity that acquires more than fifty percent (50%) of either an ownership interest in Tenant or the assets of Tenant in the "Metropolitan Trading Area" or "Basic Trading Area" (as those terms are defined by the FCC) in which the Property is located. Upon such assignment, Tenant shall be relieved of all further liabilities and obligations hereunder and Landlord shall look solely to the assignee for performance under this Lease and all further obligations hereunder. Upon written notice to Landlord, Tenant may sublease the Premises to companies that are in the business of providing communication services. Any such sublease shall be subject to the terms of this Lease.

LANDLORD: Gary L. Russ

By: Gary L. Russ
Printed Name: GARY L. RUSS
Title: _____
Date: 3-20-09

LANDLORD: Cheryl D. Russ

By: Cheryl D. Russ
Printed Name: Cheryl D. Russ
Title: _____
Date: 3-20-09

TENANT: Powertel/ Memphis, Inc.

By: _____
Printed Name: Kim Curtis
Title: Regional Development Director
Date: _____

MEMORANDUM OF LEASE
Assessor's Parcel Number: Map 174-00-00-016

Between Gary L. Russ and Cheryl D. Russ ("Landlord") and Powertel/Memphis, Inc. ("Tenant")

A Site Lease with Option (the "Lease") by and between Gary L. Russ and Cheryl D. Russ ("Landlord") and Powertel/Memphis, Inc. a Delaware corporation ("Tenant") was made regarding a portion of the following property:

See Attached Exhibit "A" incorporated herein for all purposes

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

The Lease is for a term of five (5) years and will commence on the date as set forth in the Lease (the "Commencement 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.

LANDLORD: Gary L. Russ
By: *Gary L. Russ*
Printed Name: GARY L. RUSS
Title: _____
Date: 3-20-09

LANDLORD: Cheryl D. Russ
By: *Cheryl D. Russ*
Printed Name: Cheryl D. Russ
Title: _____
Date: 3-20-09

TENANT: Powertel/Memphis, Inc.
By: _____
Printed Name: Kim Curtis
Title: Regional Development Director
Date: _____

Site Number: 01.V0726
Site Name: Monsanto Haul Rd
Market: Louisville

[Notary block for Landlord]

[Landlord Notary block for an Individual]

STATE OF KENTUCKY)
) ss.
COUNTY OF MULLENBERG)

This instrument was acknowledged before me on 3-20-09 by Gary L. Russ

Dated: 3-20-09

Cary E. Davis

Notary Public
Print Name Cary E. Davis
My commission expires 10-6-2009



(Use this space for notary stamp/seal)

Site Number: 9LV0726
Site Name: Monsanto Haul Rd
Market: Louisville

[Landlord Notary block for an Individual]

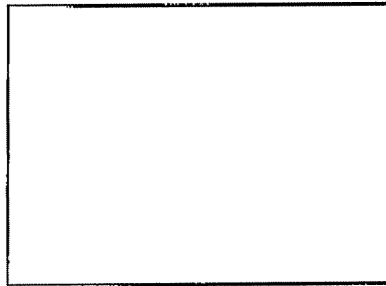
STATE OF KENTUCKY)
) ss.
COUNTY OF MULLENBARGER)

This instrument was acknowledged before me on 3-20-09 by Cheryl D. Russ

Dated: 3-20-09

Cary E. Davis

Notary Public
Print Name Cary E. Davis
My commission expires 10-6-2009



(Use this space for notary stamp/seal)

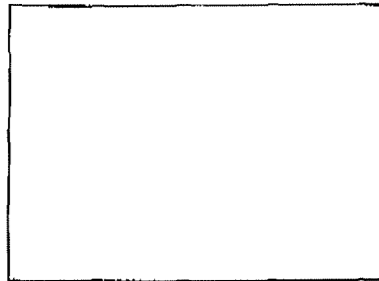
Site Number: 9LV0726
Site Name: Monsanto Haul Rd
Market: Louisville

[Notary block for Tenant]

STATE OF _____)
) ss.
COUNTY OF _____)

I certify that I know or have satisfactory evidence that Kim Curtis is the person who appeared before me, and said person acknowledged that she signed this instrument, on oath stated that he was authorized to execute the instrument and acknowledged it as the Regional Development Director of PowerTel/Memphis, Inc. a Delaware corporation, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

Dated: _____



Notary Public
Print Name _____
My commission expires _____

(Use this space for notary stamp/seal)

Memorandum of Lease Exhibit A
Legal Description

The Property is legally described as follows:

Beginning at an Iron Pin Set in the South right-of-way line of the Commonwealth of Kentucky, Department of Transportation as shown on right-of-way of the Western Kentucky Turnpike as an "Old County Road" and in the east line of Clarence Stone and wife, Jean Stone, as recorded in Deed Book 407, page 518; said Iron Pin lies 30 feet from the center of said road and South 32° 14' 56" East a distance of 62.38 feet from a Right-of-Way Fence Corner Post, said post being 95 feet right of Western Kentucky Parkway Centerline Station 4648+00; thence with the Kentucky Department of Transportation for the next two (2) calls: North 69° 18' 48" East a distance of 76.36 feet to an Iron Pin Set 30.00 feet right of centerline station 56 + 75 of said road; North 21° 23' 59" West a distance of 15.93 feet to an Iron Pin Set 15 feet South of the center of a private drive, formerly an old county road, said Iron Pin being a new corner with the tract of land of which this is a part; thence with a new division for the next two (2) calls:

North 75° 37' 55" East a distance of 118.51 feet to an Iron Pin Set 15 feet South of the Center of said private drive; South 11° 47' 48" East a distance of 258.99 feet to an Iron Pin Set in an existing fence, said Iron Pin being in the North line of Clarence Stone; thence with Stone's line and said fence for the next two (2) calls: South 82° 29' 05" West a distance of 149.00 feet; North 85° 19' 09" West a distance of 13.68 feet to a Fence Corner Post; thence with Stone North 19° 44' 36" West a distance of 213.21 feet; which is the point of beginning, having an area of 42650.07 square feet, 0.979 acres according to a survey performed by Marshall Cury, P.L.S. No. 3405 on April 3, 1999, according to the plat attached hereto.

"All coal, oil, gas and minerals are reserved to the extent same are reserved by former deeds of record."

Being a part of the same property conveyed to Luther Russ and wife, Shelly Russ, or survivor, from William Albest-Merten, a widower, by deed dated June 22, 1983, of record in Deed Book 356, page 379, in the office of the Muhlenberg County Clerk; and, being the same property conveyed to Luther Russ and wife, Shelly Russ, or the survivor, from Clarence Stone, et al., pursuant to the Boundary Line Agreement of record in Deed Book 476, page 682, in the office of the Muhlenberg County Clerk.

Site Number: 9LV0726
Site Name: Monsanto Haul Rd
Market: Louisville

**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)

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

March ____, 2009

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

RE: Notice of Proposed Construction of Wireless Communications Facility
Site Name: Monsanto Haul Road/9LV0726A
Site Address: 80 Parkway Lane, Central City, Muhlenberg County, Kentucky 42330
Docket No. 2009-00022

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 80 Parkway Lane, Central City, Muhlenberg County, Kentucky 42330. 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 that is 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 2009-00022 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

Enclosure
3204017_1.doc

Greenebaum Doll & McDonald PLLC 3500 NATIONAL CITY TOWER, 101 SOUTH FIFTH STREET, LOUISVILLE, KENTUCKY 40202-3197
Main 502/589-4200 Main Fax 502/587-3695 www.greenebaum.com
Lexington, KY Covington, KY Cincinnati, OH Nashville, TN Frankfort, KY

Notice List
T-Mobile/Muhlenberg #1
"Monsanto Haul Road"
80 Parkway Lane
Central City, KY 42330
Map 174, Parcel 016

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

Map 189, Parcel 007
Samuel A. Francis
3821 Axton Ln.
Gosher, KY 40026

Map 174, Parcels 018, 015, 002.01,
and 019
Samuel A. Francis
3821 Axton Ln.
Goshen, KY 40026

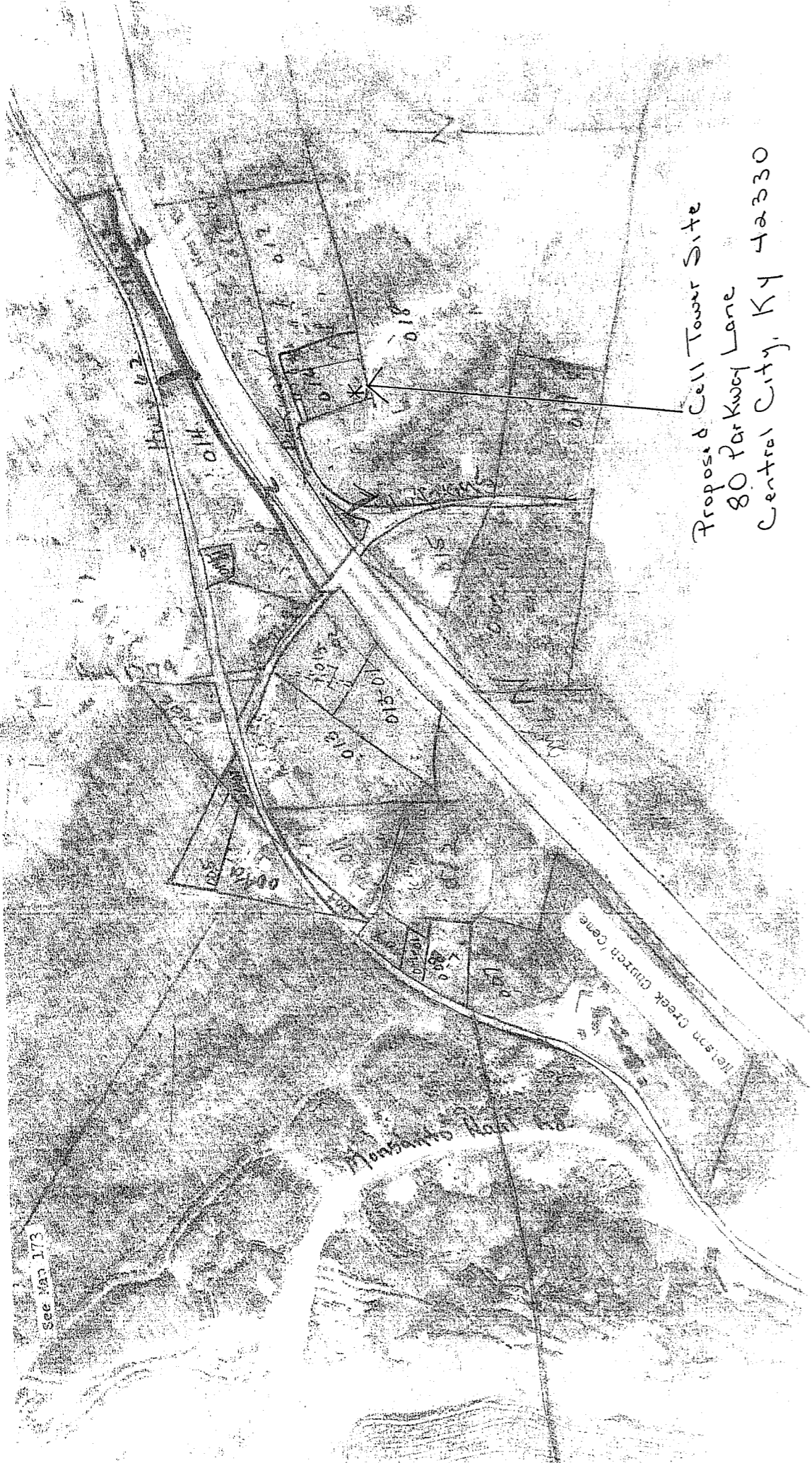
Map 174, Parcel 014.002
Darrell & Mary Sue Fulkerson
12196 U.S. Hwy. 62
Central City, KY 42330

Map 174, Parcels 017, 017.01
Shellie Russ
160 Parkway Dr.
Central City, KY 42330

Map 174, Parcel 014
Clarence Stone
218 N. 6th St.
Central City, KY 42330

GOVERNMENT OFFICIAL:

Hon. Rick Newman
Muhlenberg County Judge Executive
P.O. Box 137
Greenville, KY 42345



Proposed Cell Tower Site
80 Parkway Lane
Central City, KY 42330

See Map 173

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

March ____, 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: Monsanto Haul Road/9LV0726A
Site Address: 80 Parkway Lane, Central City, Muhlenberg County, Kentucky 42330
Docket No. 2009-00022

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 80 Parkway Lane, Central City, Muhlenberg County, Kentucky 42330. The proposed facility will include a 250-foot tall antenna tower, plus a 5-foot lightning rod and related ground facilities.

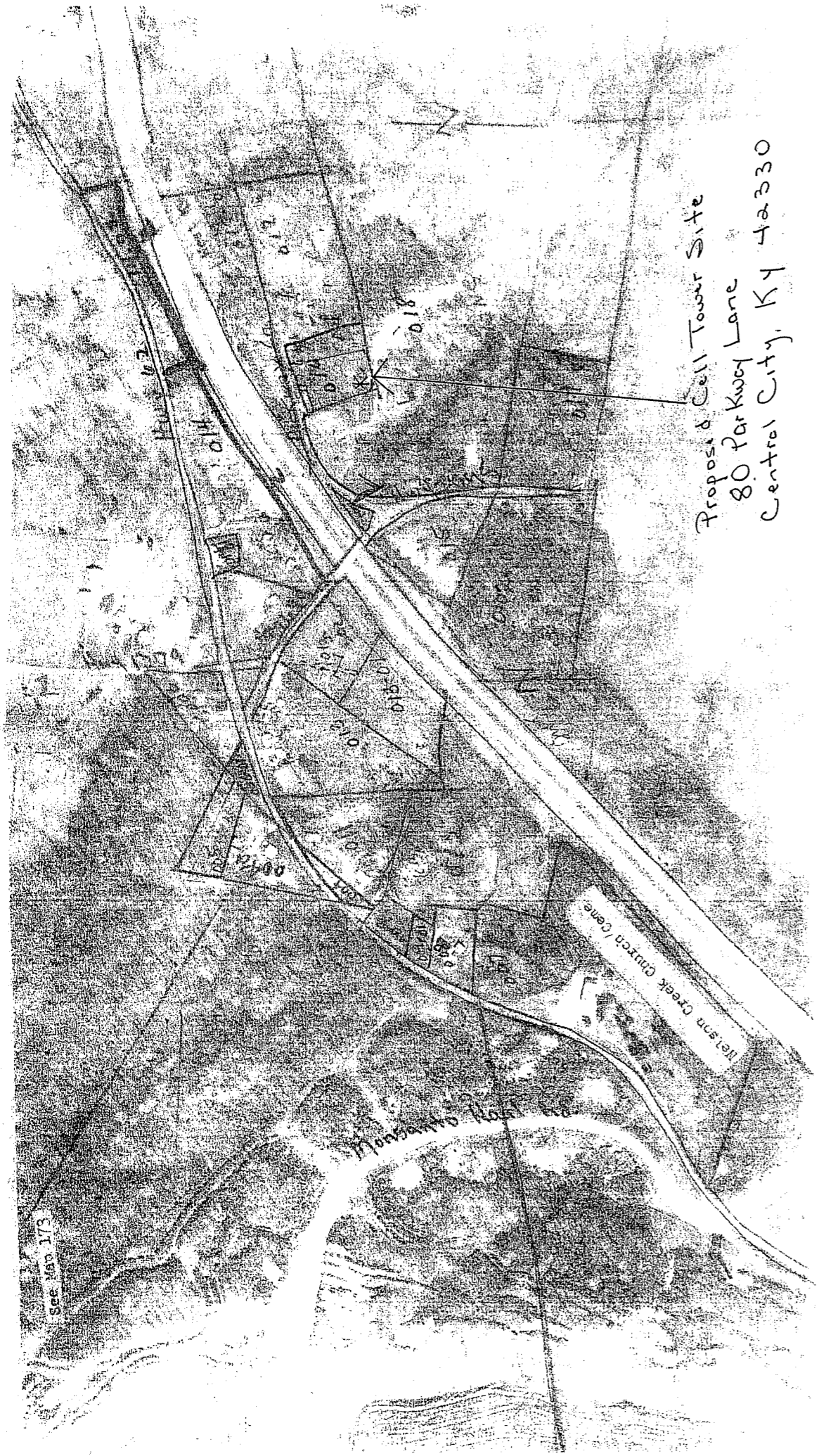
You have a right to submit testimony to the PSC in writing, or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602, Phone: (502) 564-3940. Please refer to Docket Number 2009-00022 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
Enclosure
3204021_1.doc



Proposed Cell Tower Site
80 Parkway Lane
Central City, KY 42330

See Map 173

SITE NAME: MONSANTO HAUL ROAD

80 Parkway Lane

Central City, Kentucky 42330

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 2009-00022 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 2009-00022 in your correspondence or telephone calls.

Tharp, Theresa A.

From: Tharp, Theresa A.

Sent: Monday, March 23, 2009 10:48 AM

To: 'ads@ky-leadernews.com'

Subject: Legal Ad for T-Mobile for the Leader News (Muhlenberg #1)

Please place the following legal ad in the Leader News. We would like for the ad to run on Tuesday, March 24 if possible, or on Tuesday March 31, 2009.

Powertel/Memphis, Inc. d/b/a T-Mobile Kentucky proposes to construct a telecommunications tower at 80 Parkway Lane, Central City, 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 2009-00022 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

9LV0726



A10 TopoQuest's Copyright © 2007 Database: GeoEye, GEBCO, AeroGRID, IGN, SIA, Source: USGS