

Memorandum Department of Planning & Public Works



To: Planning and Public Works Committee

From: Shawn Seymour, AICP
Senior Planner

Date: September 23, 2010

RE: **T.S.P. 26-2010 Clearwire US LLC. (1850 Baxter Road)**: A request to obtain approval for a Telecommunication Facility Siting Permit for location of antennas and equipment on an existing AmerenUE tower on a 4.71 acre "NU" Non-Urban District-zoned tract of land located northeast of Baxter Road (19S220028).

Summary

Clearwire US, LLC has requested a telecommunications facilities siting permit to allow the following on an existing AmerenUE tower located northeast of Baxter Road, in between the Baxter Lakes and Claymont Lake Estates subdivisions:

- Install antennas on an existing AmerenUE tower.
- Install associated ground located equipment within a seven (7) foot tall fenced compound.

City of Chesterfield Ordinance 2391, which governs telecommunications and facilities siting, requires that the Planning Commission provide a venue for public hearing of requests for Telecommunications Siting Permits. Please note, the Commission does not provide a recommendation to the City Council, but rather generates a list of issues during the hearing. At the public hearing on September 13, 2010, no outstanding issues were identified.

Attached are copies of the materials submitted to the Planning Commission.

Respectfully submitted,

Shawn Seymour, AICP
Senior Planner

CC: Michael G. Herring, City Administrator
Rob Heggie, City Attorney
Michael O. Geisel, Director of Planning & Public Works
Aimee Nassif, Planning & Development Services Director

Attachments: Planning Commission packet

Department of Planning & Public Works
City of Chesterfield
Public Hearing Summary Report

T.S.P. 26-2010 Clearwire US LLC. (1850 Baxter Road): A request to obtain approval for a Telecommunication Facility Siting Permit for location of antennas and equipment on an existing AmerenUE tower on a 4.71 acre "NU" Non-Urban District-zoned tract of land located northeast of Baxter Road (19S220028).

Summary

The above-referenced project is a request for a Telecommunications Siting Permit (T.S.P.). If the request is approved, the Permit will allow placement of antennas from Clearwire US LLC, on an existing AmerenUE transmission line tower located northeast of Baxter Road, south of the Baxter Lakes subdivision. Additional equipment to support the new antennas is proposed to be placed at ground level.

City of Chesterfield Ordinance 2391, which now governs telecommunications and facilities siting, requires a public hearing before the City of Chesterfield Planning Commission for the addition of telecommunications equipment on exiting high structures. Note, the Commission does not provide a recommendation to the City Council, but rather a list of issues generated during the hearing. City Council is the decision-making body for all requests for Telecommunications Siting Permits. A public hearing further addressing the request will be held at the September 13, 2010 City of Chesterfield Planning Commission meeting. Attached please find a copy of the Public Hearing Notice and an application packet detailing the Petitioner's request.

Respectfully submitted,



Shawn Seymour, AICP
Senior Planner

Cc: Michael G. Herring, City Administrator
Rob Heggie, City Attorney
Michael O. Geisel, Director of Planning and Public Works
Aimee Nassif, Planning and Development Services Director



Existing tower

**NOTICE OF PUBLIC HEARING
CITY OF CHESTERFIELD
PLANNING COMMISSION**

NOTICE IS HEREBY GIVEN that the Planning Commission of the City of Chesterfield will hold a Public Hearing on Monday, September 13, 2010, at 7:00 PM, in the Council Chambers at the City Hall, 690 Chesterfield Parkway West, Chesterfield, Missouri 63017.

Said hearing will be as follows:

T.S.P. 26-2010 Clearwire US LLC. (1850 Baxter Road): A request to obtain approval for a Telecommunication Facility Siting Permit for location of antennas and equipment on an existing AmerenUE tower on a 4.71 acre "NU" Non-Urban District-zoned tract of land located northeast of Baxter Road (19S220028).



Anyone interested in the proceedings will be given an opportunity to be heard. Copies of the request are available for review in the Department of Planning and Public Works at the Chesterfield City Hall, 690 Chesterfield Parkway West during weekdays between the hours of 8:30 a.m. and 4:30 p.m. If you should need additional information about this project, please contact Mr. Shawn P. Seymour, Senior Planner, by telephone at 636-537-4741 or by email at sseymour@chesterfield.mo.us

CITY OF CHESTERFIELD
G. Elliot Grissom, Chair
Chesterfield Planning Commission

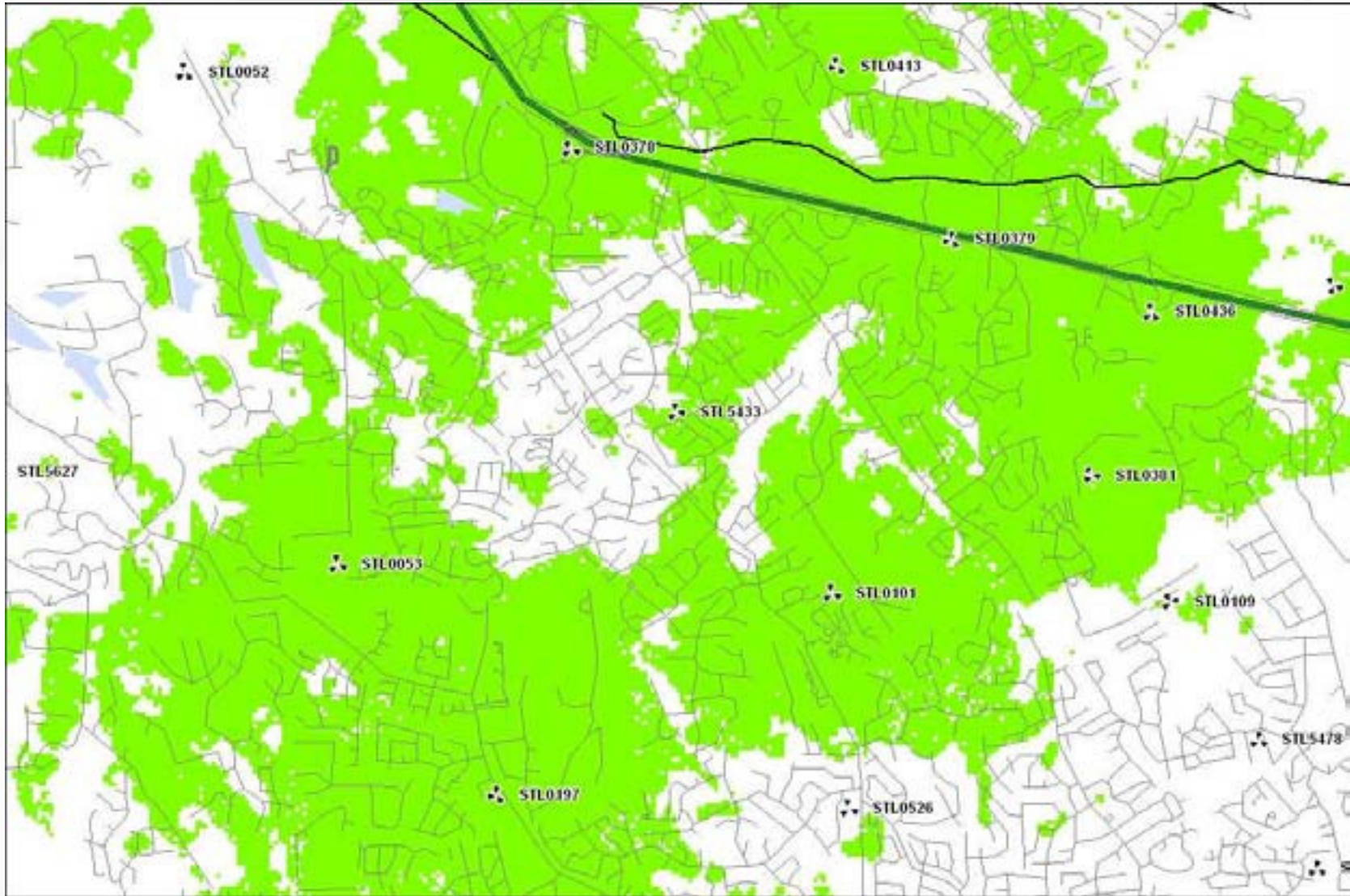
Description of Area

A tract of land in Lot 6 of Henry Eberwein's subdivision in U.S. Survey 1978, Township 45 North, Range 4 East, and being more particularly described as follows:

Beginning at the intersection of the South line of U.S. Survey with the line of prolongation southwardly of the west line of said Lot 6; thence extending east along said survey line, 1525 feet to a point; thence north at a right angle to said survey line, 575 feet to a point; thence west parallel with said survey line, 315 feet to a point; thence south at a right angle to said last mentioned line, 555 feet to a point; thence west parallel with said survey line, 1210 feet more or less to a point in the west line of said Lot 6 or its prolongation southwardly; and thence south along the west line of said Lot 6; prolonged southwardly, 20 feet more or less to the point of the beginning.

MO-STL5433

Coverage Analysis



Indoor Coverage without MO-STL5433



Indoor Coverage with MO-ST5433



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| | |
|-----------------------------------|------|
| CLEARWIRE PROJECT MANAGEMENT | DATE |
| CLEARWIRE CONSTRUCTION MANAGEMENT | DATE |
| CLEARWIRE ENGINEERING | DATE |
| BACKHAUL ENGINEERING | DATE |
| LANDLORD | DATE |

clearwire®

TECHNOLOGIES, INC.

SITE ID: MO-STL5433

MASON-LABADIE #31



| DRAWING INDEX | | ENGINEER | SURVEYOR | PROJECT INFORMATION | | | | | | | | | | | |
|---|--|--|--|--|--------------------------|-------------|----------------------|-------------|--|-------------|--|--|--|--|--|
| T-1 | TITLE SHEET | LANDTECH PROFESSIONAL SURVEYING AND ENGINEERING 1275 MCGREGOR WAY GRAWN, MI 49637 P.O. BOX 193 PHONE: (231) 943-0050 | LANDTECH PROFESSIONAL SURVEYING AND ENGINEERING 1275 MCGREGOR WAY GRAWN, MI 49637 P.O. BOX 193 PHONE: (231) 943-0050 | <p>SCOPE OF WORK: THIS FACILITY IS AN UNOCCUPIED TELECOMMUNICATIONS FACILITY CONSISTING OF CO-LOCATING ON AN EXISTING STRUCTURE WITH MICROWAVE ANTENNAS AND THE INSTALLATION OF NEW OUTDOOR EQUIPMENT ON GRADE.</p> <p>SITE ADDRESS: 1850 BAXTER ROAD CHESTERFIELD, MO 63017</p> <p>TOWER OWNER: AMEREN P.O. BOX 66529 ST. LOUIS, MO 63166</p> <p>LAND OWNER: ST LOUIS COUNTY WATER COMPANY 727 CRAIG ROAD ST. LOUIS, MO 63141</p> <p>TOWER OWNER SITE: MASON-LABADIE #31</p> <p>APPLICANT: CLEARWIRE 4400 CARRILLION POINT KIRKLAND, WA 98033 (425) 216-7600 PH (425) 216-7900 FAX</p> <p>CONTACT: AMY ISENBURG</p> <p>TOWER INFORMATION: LATITUDE & LONGITUDE BASED ON NAD83 LATITUDE: 38° 38' 06.5" N LONGITUDE: 90° 33' 10.0" W PROPOSED RAD CENTER HEIGHT: 114' AGL</p> <p>PARCEL NUMBER (TAX ID): 19S220029</p> <p>CURRENT ZONING: MU</p> <p>TYPE OF CONSTRUCTION: PROJECT TYPE: EXISTING AMEREN POWER TOWER WITH NEW POWER MOUNT</p> | | | | | | | | | | | |
| S-1 | PARCEL PLAN | <p>DIRECTIONS TO SITE: FROM THE INTERSECTION OF I-44 AND I-270, US401 WEST TO SR 340, SR 345 SOUTH TO BAXTER RD, BAXTER RD SOUTH-EAST TO SUMMER RIDGE DR, CONTINUE PAST SUMMER RIDGE DR APPROXIMATELY 0.19 MILES TO ACCESS ROAD ON THE EAST SIDE OF BAXTER RD, CONTINUE EAST ON ACCESS ROAD APPROXIMATELY 0.25 MILES TO TRANSMISSION TOWER.</p> | | | | | | | | | | | | | |
| S-2 | CROSS SECTIONS | | | | | | | | | | | | | | |
| S-3 | OUT BOUNDARY SURVEY | | | | | | | | | | | | | | |
| A-1 | ENLARGED SITE PLAN & TOWER ELEVATION | | | | | | | | | | | | | | |
| A-2 | ANTENNA MOUNTING DETAILS & NOTES | | | | | | | | | | | | | | |
| A-3 | STRUCTURAL NOTES, SECTIONS & DETAILS | | | | | | | | | | | | | | |
| A-4 | EQUIPMENT DETAILS | | | | | | | | | | | | | | |
| A-5 | RF/MW CONFIG | | | | | | | | | | | | | | |
| E-1 | ELECTRICAL PLAN | | | | | | | | | | | | | | |
| E-2 | GROUNDING PLAN | | | | | | | | | | | | | | |
| E-3 | ELECTRICAL DETAILS | | | | | | | | | | | | | | |
| E-4 | GROUNDING DETAILS & NOTES | | | | | | | | | | | | | | |
| E-5 | GROUNDING ANTENNA DETAILS | | | | | | | | | | | | | | |
| CODE COMPLIANCE | | | | | | | | | | | | | | | |
| <p>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT JURISDICTION. ANY OTHER APPLICABLE CODES TO BE OBSERVED TO APPLY SHALL BE LEFT UNCHANGED TO THE LATEST EDITIONS OF THE RESPECTIVE CODES.</p> <table border="0"> <tr> <td>1. IRC 2006</td> <td>4. LOCAL BUILDING CODE</td> </tr> <tr> <td>2. IRC 2003</td> <td>7. OFF-COUNTY ORDINANCES</td> </tr> <tr> <td>3. IRC 2003</td> <td>8. ICC INTERNATIONAL</td> </tr> <tr> <td>4. UPC 2003</td> <td>9. INTERNATIONAL ELECTRICAL CODES 2005</td> </tr> <tr> <td>5. NDS 2005</td> <td></td> </tr> </table> | | 1. IRC 2006 | 4. LOCAL BUILDING CODE | 2. IRC 2003 | 7. OFF-COUNTY ORDINANCES | 3. IRC 2003 | 8. ICC INTERNATIONAL | 4. UPC 2003 | 9. INTERNATIONAL ELECTRICAL CODES 2005 | 5. NDS 2005 | | | | | |
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| 4. UPC 2003 | 9. INTERNATIONAL ELECTRICAL CODES 2005 | | | | | | | | | | | | | | |
| 5. NDS 2005 | | | | | | | | | | | | | | | |
| SITE QUALIFICATION PARTICIPANTS | | | | | | | | | | | | | | | |
| | NAME | COMPANY | NUMBER | | | | | | | | | | | | |
| A/E | MATTHEW MOKANYK, P.E. | LANDTECH | 231-943-0050 | | | | | | | | | | | | |
| SAC | RUSSELL BEEN | COLLECTIVE SOLUTIONS, LLC | 314-989-9810 | | | | | | | | | | | | |
| PI | JASON GIBBS | CLEARWIRE | | | | | | | | | | | | | |
| CON | AMY ISENBURG | CLEARWIRE | amy.isenburg@clearwire.com | | | | | | | | | | | | |
| LANDLORD | TRZ WEBERS | AMEREN | 314-554-2993 | | | | | | | | | | | | |



VICINITY MAP
NOT TO SCALE

PROFESSIONAL SURVEYING & ENGINEERING
IN AR, AZ, CA, CO, IL, IN, IA, MI, MN, MO, NE, ND, OH, OK, PA, SC, TN, VA, WI, WY
231-943-0050 PH 231-943-0051 FAX 877-630-LAND toll free
www.landtechps.com www.clearwire.com

4400 CARRILLION POINT
KIRKLAND, WA 98033
(425) 216-7600 PH
(425) 216-7900 FAX

SITE ID: MO-STL5433
MASON-LABADIE #31
1850 BAXTER ROAD
CHESTERFIELD, MO 63017

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---|----|-----|-------|
| 1 | 05/05/10 | ANTENNAS MOUNTED TO TOWER | GM | SM | MM |
| 2 | 05/24/10 | ADDED OUT BOUNDARY SURVEY | GM | SM | MM |
| 3 | 07/27/10 | FENCE ADDED | GM | SM | MM |
| 4 | 07/15/10 | HEIGHTS FOR STRUCTURE & ADD SOR | MM | SM | MM |
| 5 | 07/14/10 | CHANGE TO POWER MOUNT & ADD PARCEL PLAN | MM | SM | MM |
| 6 | 03/12/10 | PRELIMINARY DRAWINGS | MM | SM | MM |

| |
|----------------|
| SHEET T-1 |
| TITLE SHEET |
| DRAWING NUMBER |
| 1038509 |

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SITE ADDRESS:

1850 BAXTER ROAD
CHESTERFIELD, MO 63017

LAND OWNER:

ST. LOUIS COUNTY WATER COMPANY
P.O. BOX 08034
CHERRY HILL, NJ 08034

ZONING:

SUBJECT SITE: NU
NORTH OF SITE: R3
SOUTH OF SITE: R2
EAST OF SITE: R3
WEST OF SITE: R3

TOWER SETBACKS:

FRONT SETBACKS: N/A EXIST
SIDE SETBACKS: N/A EXIST
REAR SETBACKS: N/A EXIST

AREA DATA:

PARENT PARCEL AREA: 4.71 ACRES
CLEARWIRE LEASE AREA: 49 SQ.FT.
AREA OF CONSTRUCTION: 16 SQ.FT.

PARCEL DESCRIPTION

LOT 6 PT HENRY EBERWEIN ESTATE AS
RECORDED IN BOOK 228, PAGE 028 OF ST. LOUIS
COUNTY RECORDS.

PARCEL ID #:

19S220028

FLOOD NOTE:

By graphic plotting only, this property is in Zone(s) "X" of the Flood Insurance Rate Map, Community Panel No. 29189C0145H, which bears an effective date of 08/02/95 and is NOT in a Special Flood Hazard Area.

GENERAL NOTES

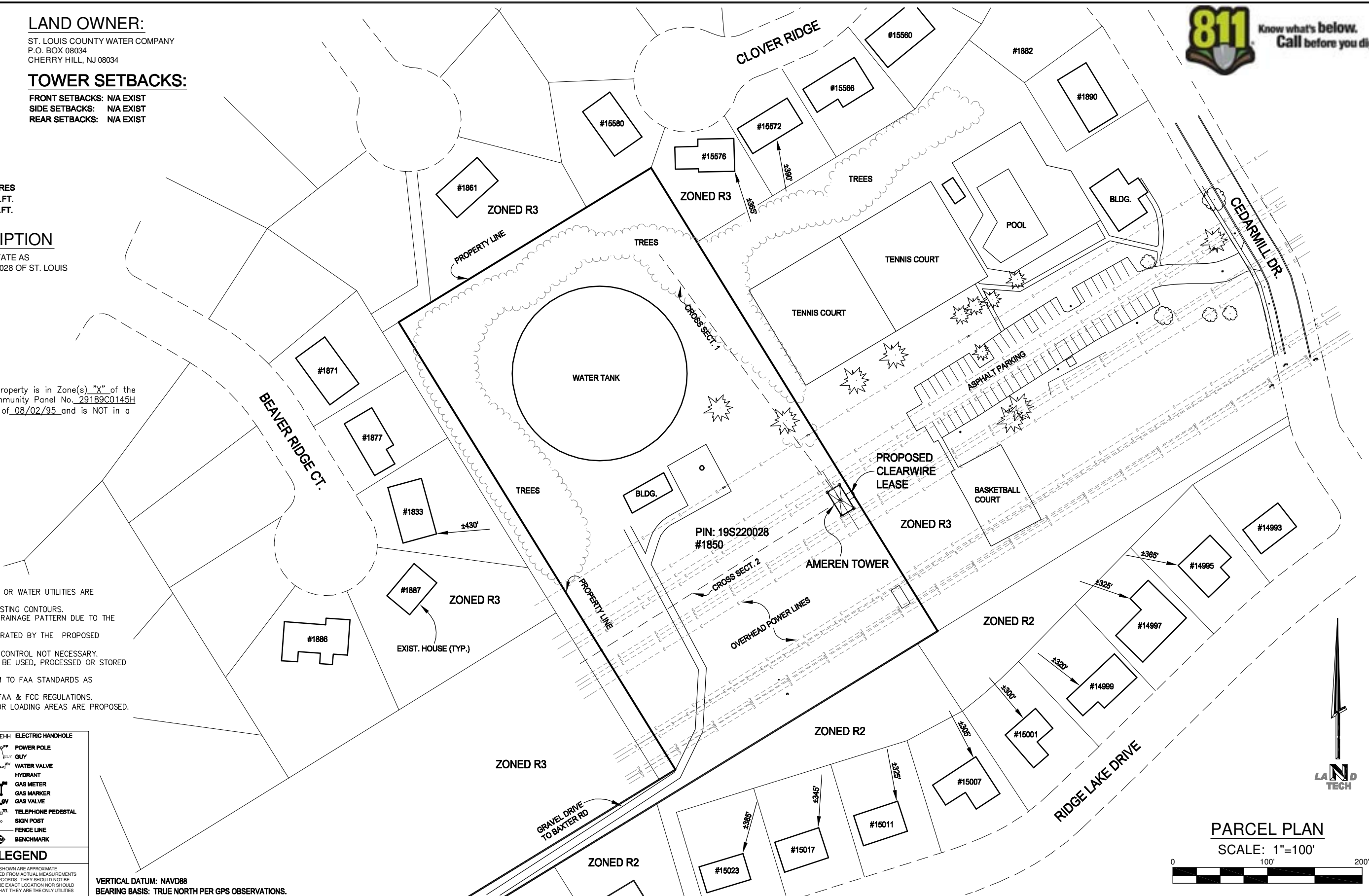
- NO PROPOSED MUNICIPAL SEWER OR WATER UTILITIES ARE REQUIRED FOR THIS SITE.
- FINISHED GRADE WILL MATCH EXISTING CONTOURS.
- THERE WILL BE NO CHANGE IN DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
- NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
- SOIL EROSION / SEDIMENTATION CONTROL NOT NECESSARY.
- NO HAZARDOUS MATERIALS WILL BE USED, PROCESSED OR STORED AT THE SITE.
- TOWER LIGHTING SHALL CONFORM TO FAA STANDARDS AS REQUIRED.
- ALL WORK SHALL CONFORM TO FAA & FCC REGULATIONS.
- NO OFF-STREET PARKING AND/OR LOADING AREAS ARE PROPOSED.
- NO WETLANDS EXIST ON SITE.

| | |
|------------------------|------------------------|
| • IRON FOUND | EHH ELECTRIC HANDHOLE |
| • IRON SET | E-PP POWER POLE |
| • P.K. NAIL FOUND | GUY |
| • P.K. NAIL SET | WATER VALVE |
| • GPS MONUMENT | HYDRANT |
| • MONUMENT BOX FOUND | GAS METER |
| • MONUMENT FOUND | GAS MARKER |
| • MONUMENT SET | GAS VALVE |
| (R) RECORD MEASURED | TEL TELEPHONE PEDESTAL |
| • STORM MANHOLE | • SIGN POST |
| • CATCH BASIN | • FENCE LINE |
| • SQUARE CATCH BASIN | • BENCHMARK |
| • SANITARY MANHOLE | |
| • SANITARY CLEAN-OUT | |
| • MONITOR WELL | |
| • TELCO. MANHOLE | |
| • LIGHT POLE | |
| • ELECTRIC TRANSFORMER | |
| • ELECTRIC METER | |

LEGEND

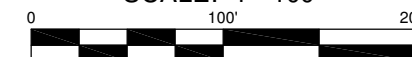
ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

VERTICAL DATUM: NAVD88
BEARING BASIS: TRUE NORTH PER GPS OBSERVATIONS.



PARCEL PLAN

SCALE: 1"=100'



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| 3 | 07/27/10 | FENCE ADD'N | CJL | MM | MM |
| 2 | 07/15/10 | HEIGHTS PER STRUCTURAL & ADD SDR | MRM | MM | MM |
| 1 | 07/14/10 | CHANGE TO POWER MOUNT & ADD PARCEL PLAN | MRM | MM | MM |
| 0 | 03/12/10 | PRELIMINARY DRAWINGS | MRM | MM | MM |

SHEET S-1

PARCEL PLAN

DRAWING NUMBER

1038509

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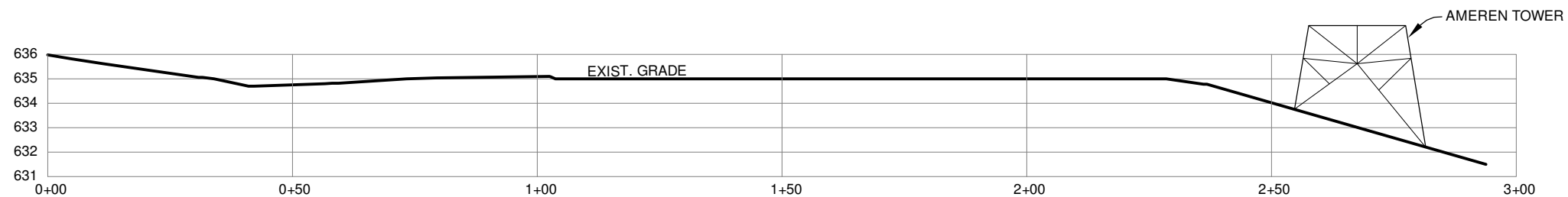
SUBJECT SITE: NU
NORTH OF SITE: R3
SOUTH OF SITE: R2
EAST OF SITE: R3
WEST OF SITE: R3

TOWER SETBACKS:

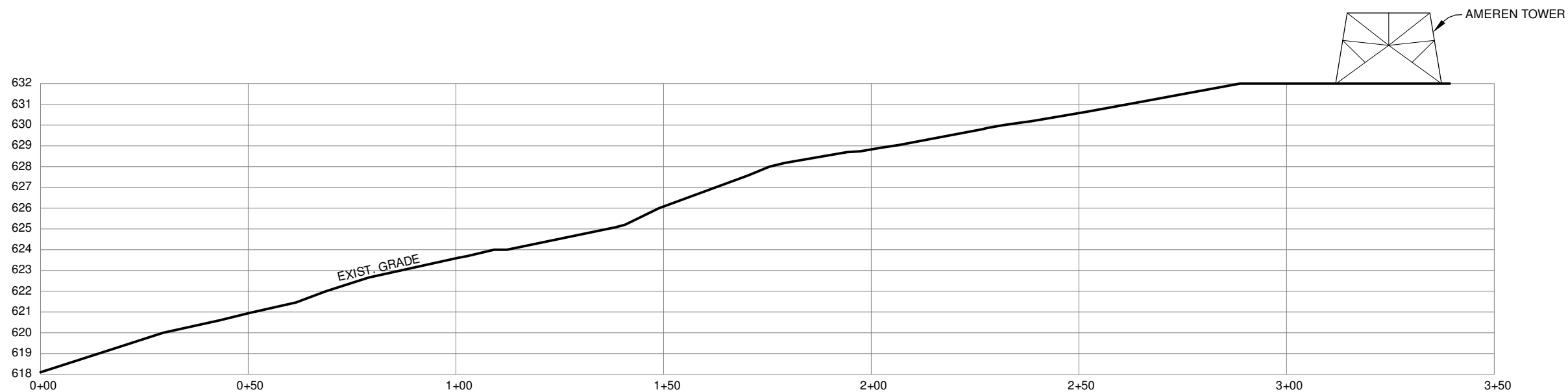
FRONT SETBACKS: N/A EXIST
SIDE SETBACKS: N/A EXIST
REAR SETBACKS: N/A EXIST

PARCEL ID #:

19S220028



CROSS SECTION 1
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=6'



CROSS SECTION 2
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=6'

VERTICAL DATUM: NAVD88
BEARING BASIS: TRUE NORTH PER GPS OBSERVATIONS.

PROFESSIONAL SURVEYING & ENGINEERING
AL, AR, AZ, CO, FL, GA, IL, IN, IA, KS, KY, MI, MN, MO, NE, NC, ND, OH, OK, PA, SC, SD, TN, TX, VA, WI, WV, WY

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| 2 | 07/15/10 | HEIGHTS PER STRUCTURAL & ADD SDR | MRM | MM | MM |
| 1 | 07/14/10 | CHANGE TO POWER MOUNT & ADD PARCEL PLAN | MRM | MM | MM |
| 0 | 03/12/10 | PRELIMINARY DRAWINGS | MRM | MM | MM |

SHEET S-2

CROSS SECTIONS

DRAWING NUMBER

1038509

BOUNDARY SURVEY

A TRACT OF LAND IN LOT 6 OF HENRY EBERWEIN'S SUBDIVISION IN U.S. SURVEY 1978, TOWNSHIP 45 NORTH, RANGE 4 EAST

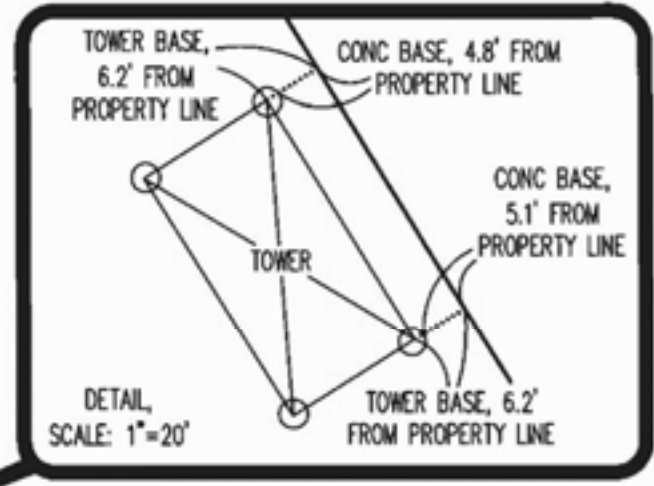
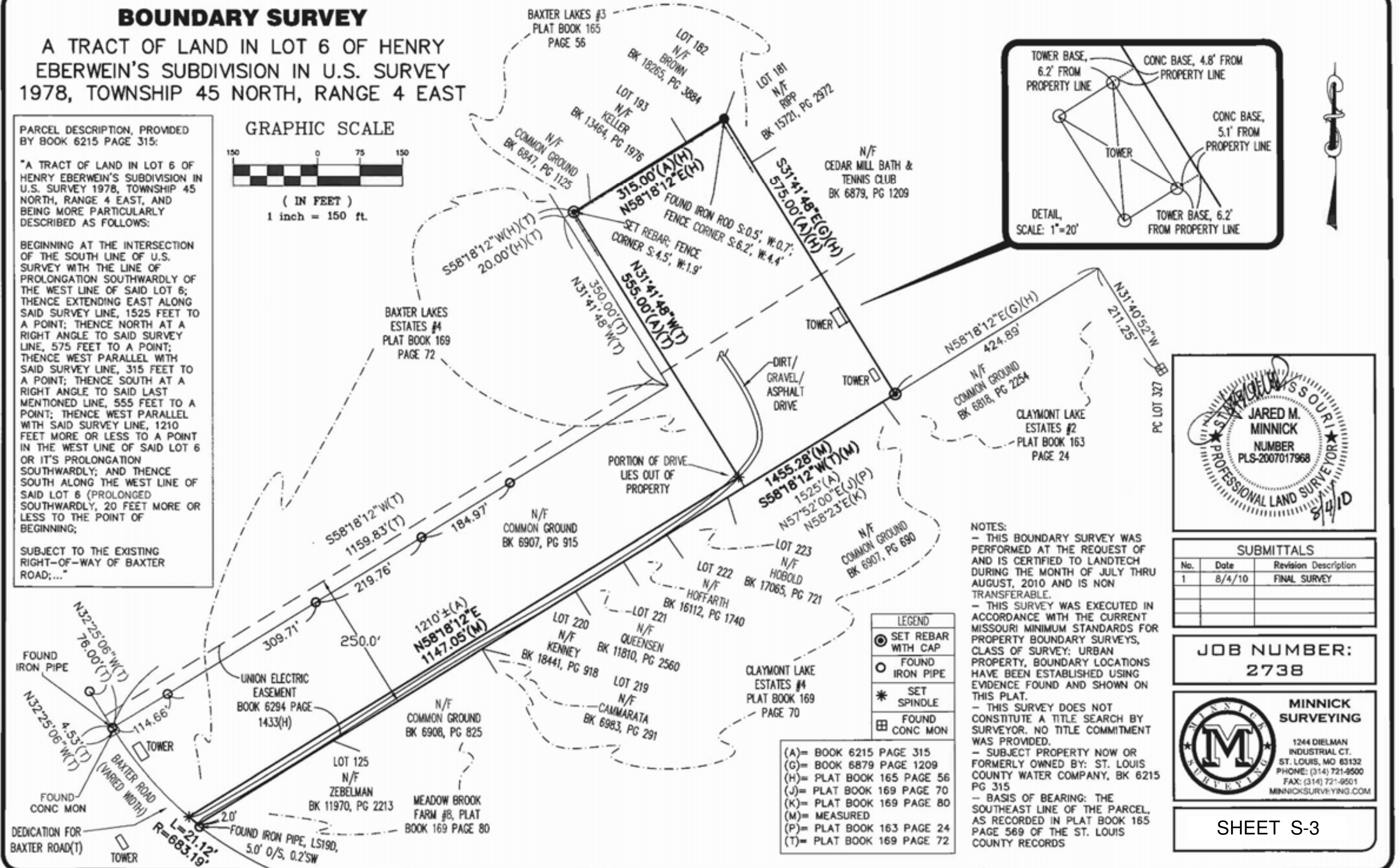
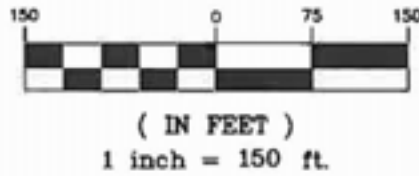
PARCEL DESCRIPTION, PROVIDED BY BOOK 6215 PAGE 315:

"A TRACT OF LAND IN LOT 6 OF HENRY EBERWEIN'S SUBDIVISION IN U.S. SURVEY 1978, TOWNSHIP 45 NORTH, RANGE 4 EAST, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

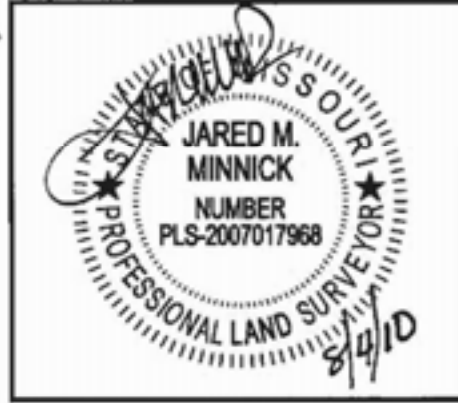
BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF U.S. SURVEY WITH THE LINE OF PROLONGATION SOUTHWARDLY OF THE WEST LINE OF SAID LOT 6; THENCE EXTENDING EAST ALONG SAID SURVEY LINE, 1525 FEET TO A POINT; THENCE NORTH AT A RIGHT ANGLE TO SAID SURVEY LINE, 575 FEET TO A POINT; THENCE WEST PARALLEL WITH SAID SURVEY LINE, 315 FEET TO A POINT; THENCE SOUTH AT A RIGHT ANGLE TO SAID LAST MENTIONED LINE, 555 FEET TO A POINT; THENCE WEST PARALLEL WITH SAID SURVEY LINE, 1210 FEET MORE OR LESS TO A POINT IN THE WEST LINE OF SAID LOT 6 OR IT'S PROLONGATION SOUTHWARDLY; AND THENCE SOUTH ALONG THE WEST LINE OF SAID LOT 6 (PROLONGED SOUTHWARDLY, 20 FEET MORE OR LESS TO THE POINT OF BEGINNING;

SUBJECT TO THE EXISTING RIGHT-OF-WAY OF BAXTER ROAD;..."

GRAPHIC SCALE



NOTES:
 - THIS BOUNDARY SURVEY WAS PERFORMED AT THE REQUEST OF AND IS CERTIFIED TO LANDTECH DURING THE MONTH OF JULY THRU AUGUST, 2010 AND IS NON TRANSFERABLE.
 - THIS SURVEY WAS EXECUTED IN ACCORDANCE WITH THE CURRENT MISSOURI MINIMUM STANDARDS FOR PROPERTY BOUNDARY SURVEYS, CLASS OF SURVEY: URBAN PROPERTY, BOUNDARY LOCATIONS HAVE BEEN ESTABLISHED USING EVIDENCE FOUND AND SHOWN ON THIS PLAT.
 - THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY SURVEYOR. NO TITLE COMMITMENT WAS PROVIDED.
 - SUBJECT PROPERTY NOW OR FORMERLY OWNED BY: ST. LOUIS COUNTY WATER COMPANY, BK 6215 PG 315
 - BASIS OF BEARING: THE SOUTHEAST LINE OF THE PARCEL, AS RECORDED IN PLAT BOOK 165 PAGE 569 OF THE ST. LOUIS COUNTY RECORDS



| SUBMITTALS | | |
|------------|--------|----------------------|
| No. | Date | Revision Description |
| 1 | 8/4/10 | FINAL SURVEY |

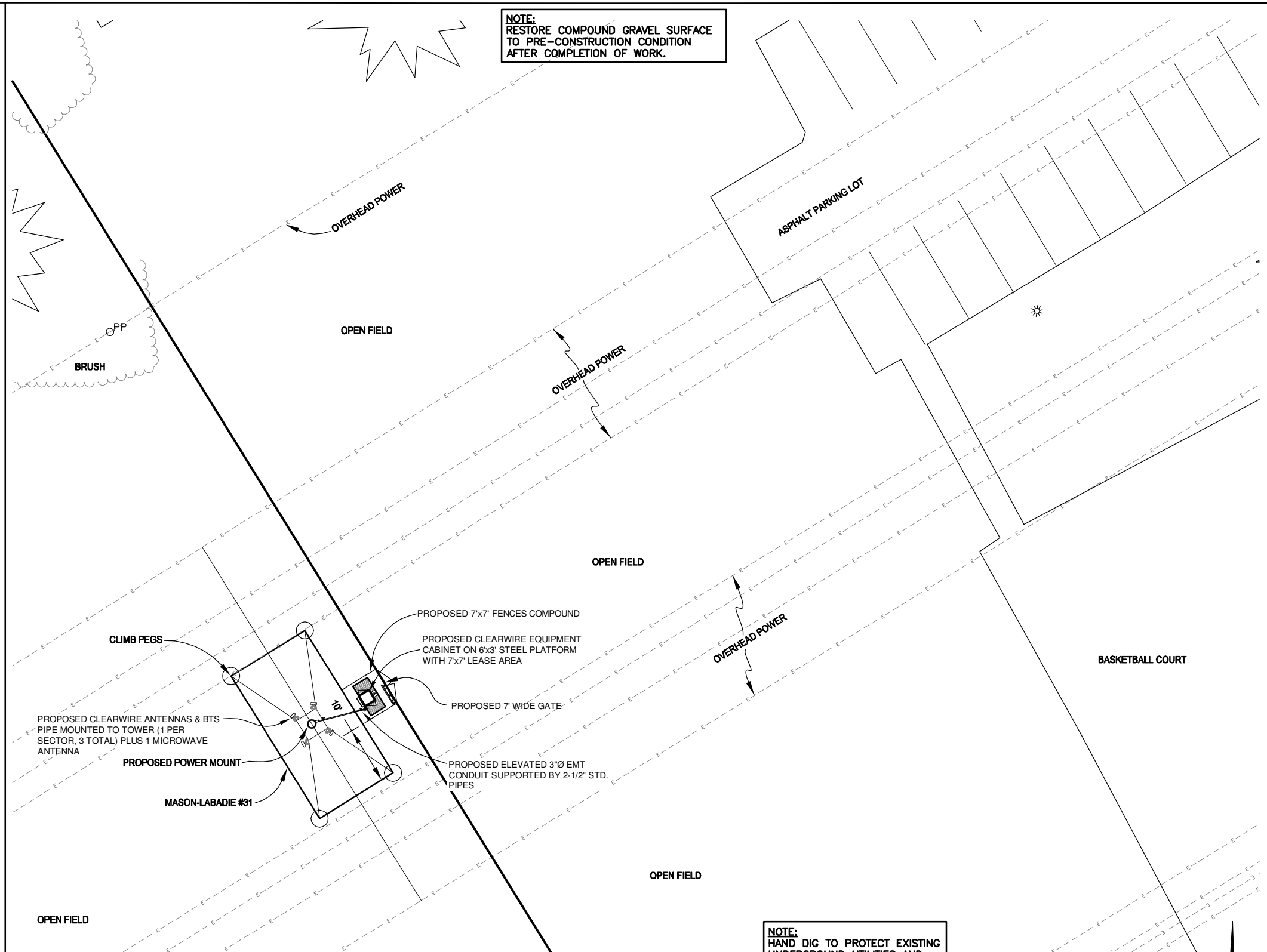
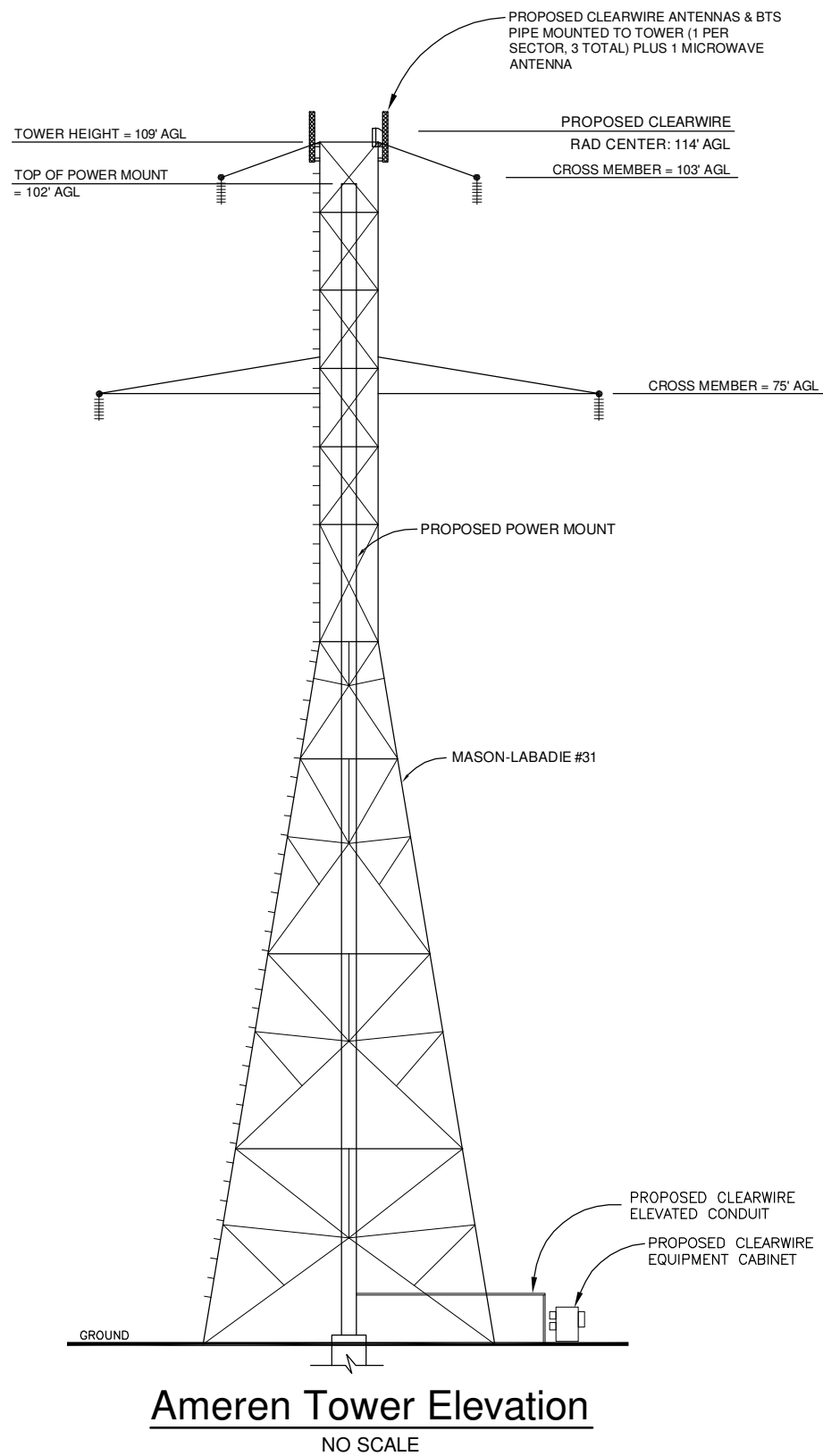
JOB NUMBER:
2738

MINNICK SURVEYING
 1244 DIELMAN INDUSTRIAL CT.
 ST. LOUIS, MO 63132
 PHONE: (314) 721-9500
 FAX: (314) 721-9501
 MINNICKSURVEYING.COM

SHEET S-3

- LEGEND**
- ⊙ SET REBAR WITH CAP
 - FOUND IRON PIPE
 - * SET SPINDLE
 - ⊞ FOUND CONC MON
- (A)= BOOK 6215 PAGE 315
 (G)= BOOK 6879 PAGE 1209
 (H)= PLAT BOOK 165 PAGE 56
 (J)= PLAT BOOK 169 PAGE 70
 (K)= PLAT BOOK 169 PAGE 80
 (M)= MEASURED
 (P)= PLAT BOOK 163 PAGE 24
 (T)= PLAT BOOK 169 PAGE 72

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STORM WATER DRAINAGE NOTES:

- 1) THERE IS NO CHANGE IN THE EXISTING DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
- 2) NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
- 3) NO GRADING IS PROPOSED FOR THIS INSTALLATION.
- 4) NO STORM WATER DRAINAGE PLAN IS CONSIDERED NECESSARY.

FENCING / SCREENING / LANDSCAPING NOTE:

- 1) NO FENCING, SCREENING OR LANDSCAPING IS PROPOSED FOR THIS PROJECT.

WETLANDS / FLOODPLAIN / TREE PRESERVATION NOTES:

- 1) NO WETLANDS OR FLOODPLAIN EXIST ON SITE.
- 2) NO TREE REMOVAL IS PLANNED FOR THIS PROJECT.

MISCELLANEOUS NOTES:

- 1) NO CURB CUTS ARE PLANNED FOR THIS PROJECT.
- 2) NO SANITARY SEWER IS PLANNED FOR THIS PROJECT.
- 3) THIS SITE WILL BE UNMANNED AND NOT OCCUPIED.

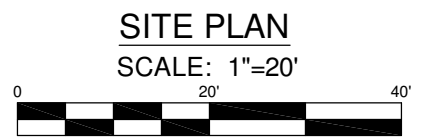
SOIL EROSION AND SEDIMENT CONTROL MEASURES

- 1) THERE IS NO CHANGE IN THE EXISTING DRAINAGE PATTERN DUE TO THE PROPOSED INSTALLATION.
- 2) NO SIGNIFICANT RUNOFF IS GENERATED BY THE PROPOSED INSTALLATION.
- 3) NO GRADING IS PROPOSED FOR THIS INSTALLATION.
- 4) NO SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE CONSIDERED NECESSARY.

HAZARDOUS SUBSTANCES NOTE:

- 1) THERE SHALL BE NO STORAGE OF HAZARDOUS SUBSTANCES OR POLLUTING MATERIALS.

NOTE:
HAND DIG TO PROTECT EXISTING UNDERGROUND UTILITIES AND GROUNDING AS REQUIRED.



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231-843-0090 ph 231-843-9051 fax 877-520-LAND toll free
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clearwire TECHNOLOGIES, INC.
4400 CARILLION POINT
KIRKLAND, WA 98033
(425) 216-7600 PH
(425) 216-7900 FAX

SITE ID: MO-STL5433
MASON-LABADIE #31
1850 BAXTER ROAD
CHESTERFIELD, MO 63017

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---|-----|-----|-------|
| 5 | 08/05/10 | ANTENNAS MOUNTED TO TOWER | DAM | MM | MM |
| 4 | 08/04/10 | ADDED OUT BOUNDARY SURVEY | DAM | MM | MM |
| 3 | 07/27/10 | FENCE ADD'N | CJL | MM | MM |
| 2 | 07/15/10 | HEIGHTS PER STRUCTURAL & ADD SDR | MRM | MM | MM |
| 1 | 07/14/10 | CHANGE TO POWER MOUNT & ADD PARCEL PLAN | MRM | MM | MM |
| 0 | 03/12/10 | PRELIMINARY DRAWINGS | MRM | MM | MM |

SHEET A-1
ENLARGED SITE PLAN & TOWER ELEVATION
DRAWING NUMBER
1038509

SEE BLACK & VEATCH STRUCTURAL DRAWINGS FOR ANTENNA MOUNTING DETAILS.



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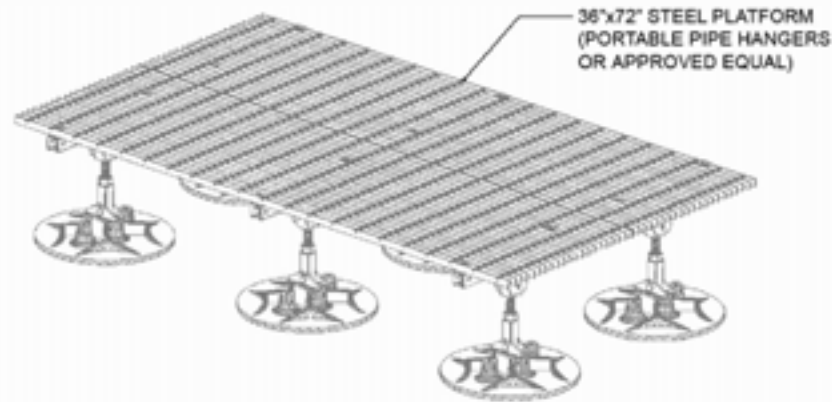
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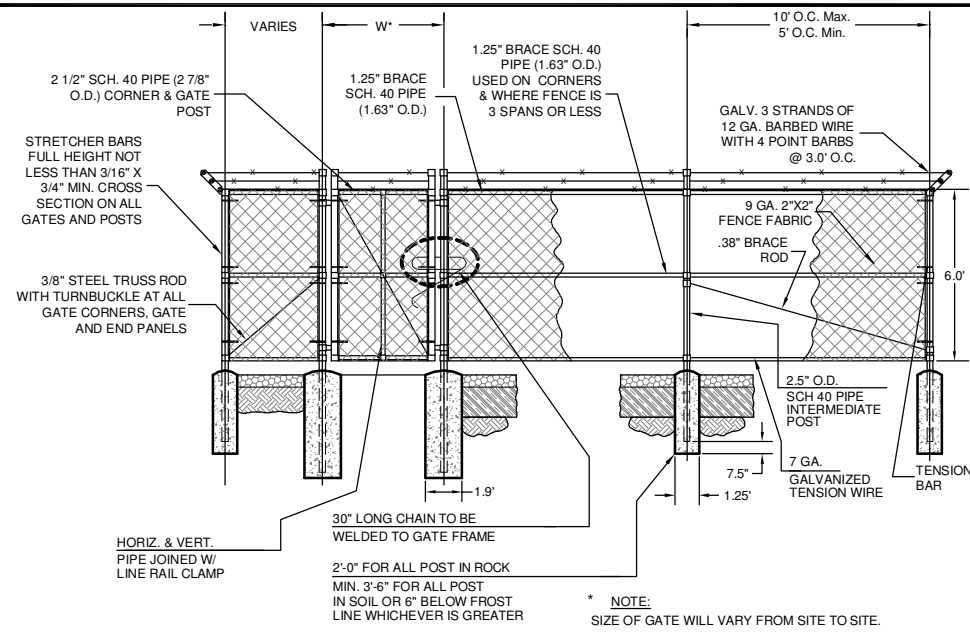
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| |
|----------------------------------|
| SHEET A-2 |
| ANTENNA MOUNTING DETAILS & NOTES |
| DRAWING NUMBER |
| 1038509 |

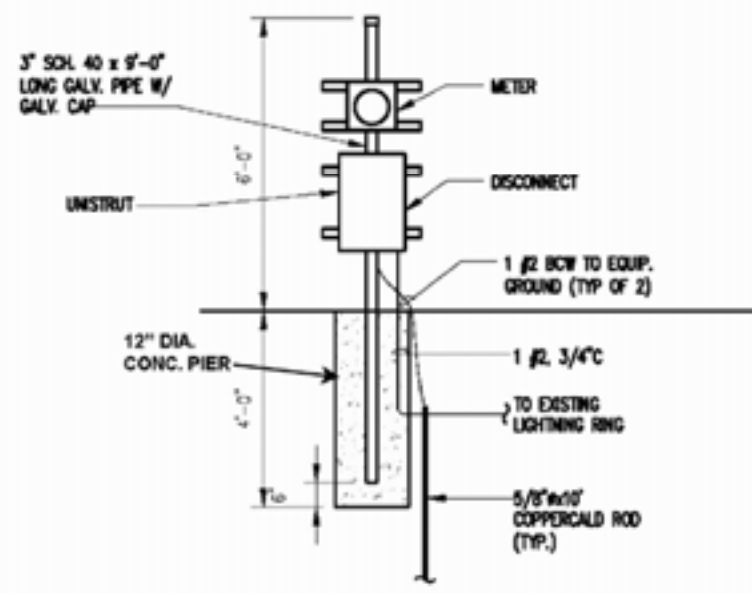
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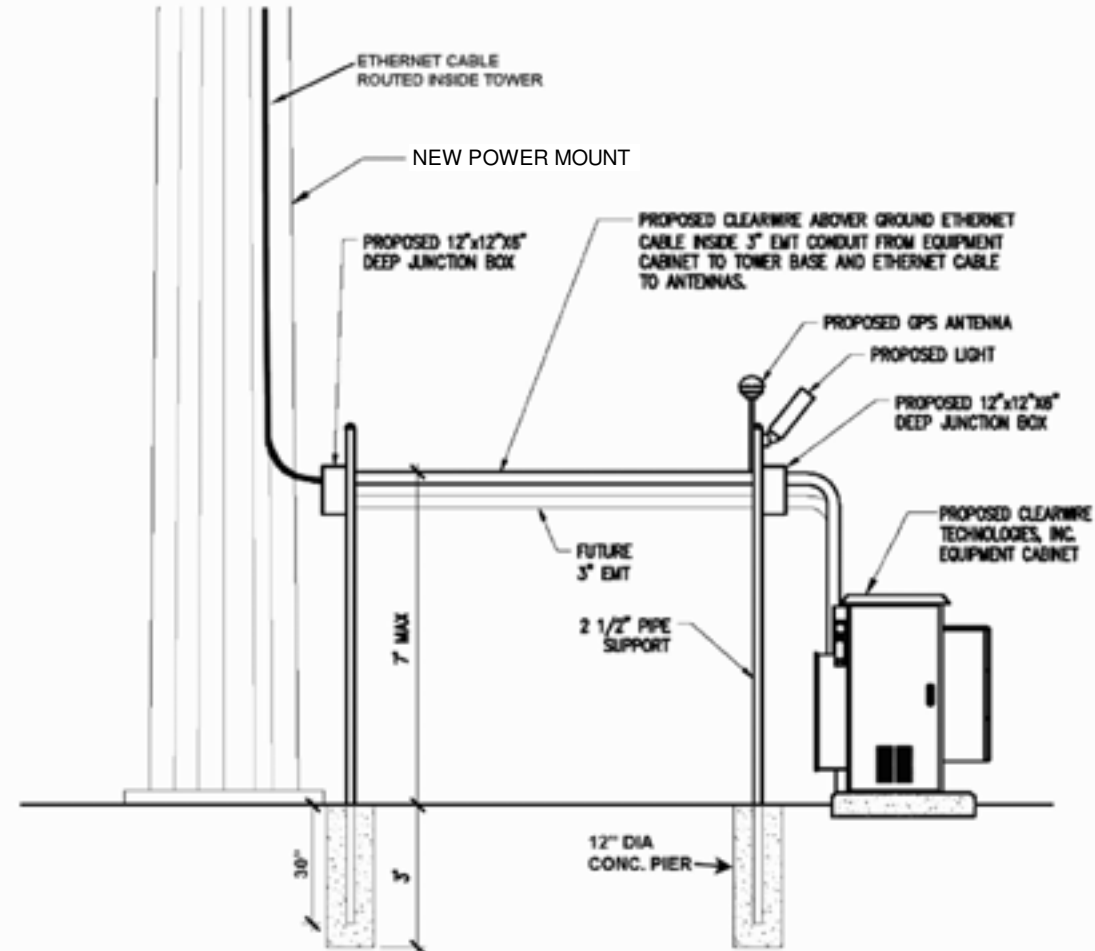
36"x72" PLATFORM DETAIL
SCALE: N.T.S. 1
A-3



TYPICAL FENCE ELEVATION
NOT TO SCALE



H-FRAME (IF APPLICABLE)
SCALE: N.T.S. 4
A-3



ELEVATION 5
SCALE: N.T.S. 5
A-3

GENERAL NOTES:

1. THE BASIC WIND SPEED UTILIZED FOR OUTDOOR EQUIPMENT CABINETS IS 90 MPH PER IBC (LATEST EDITION)
2. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENTS. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.
3. THE GENERAL CONTRACTOR AND HIS SUBCONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.
4. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS. ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE AISC CODE OF STANDARD PRACTICE.
5. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
6. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1.98. STRUCTURAL WELDING CODE-STEEL. WELD ELECTRODES SHALL BE E70XX. FIELD TOUCH-UP WITH ZINC RICH PAINT (ALL EXISTING AND NEW AREAS) AFTER WELDING IS COMPLETE.
7. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM A308. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIAMETER BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED IN THE SHEAR PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED UNLESS NOTED OTHERWISE. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS NOTED OTHERWISE. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
8. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. ETHERNET CABLES SHALL BE ATTACHED TO THE TOWER WAVEGUIDE LADDER USING UV-RESISTANT TIE WRAPS OR STAINLESS STEEL HARDWARE.
9. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ENGINEER ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.
10. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60, DEFORMED BILLET STEEL BARS.
11. CONCRETE FOR THE EQUIPMENT PAD SHALL BE 4000 PSI NORMAL WEIGHT CONCRETE WITH FIBERMESH ADMIXTURE. CONTRACTOR MAY USE APPROVED PRECAST EQUIVALENT.
12. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
13. IT IS THE OWNERS RESPONSIBILITY TO VERIFY THE STRUCTURAL CAPACITY OF THE EXISTING TOWER AND ITS FOUNDATION TO RESIST THE WIND/GRAVITY LOADS FROM THE PROPOSED ANTENNAS.
14. ALL FIELD CUT METAL WILL BE SCRAPED OF ANY RUST AND COLD GALVANIZED.
15. RUBBER CAPS WILL BE PLACED ON ALL EXPOSED UNISTRUT ENDS.

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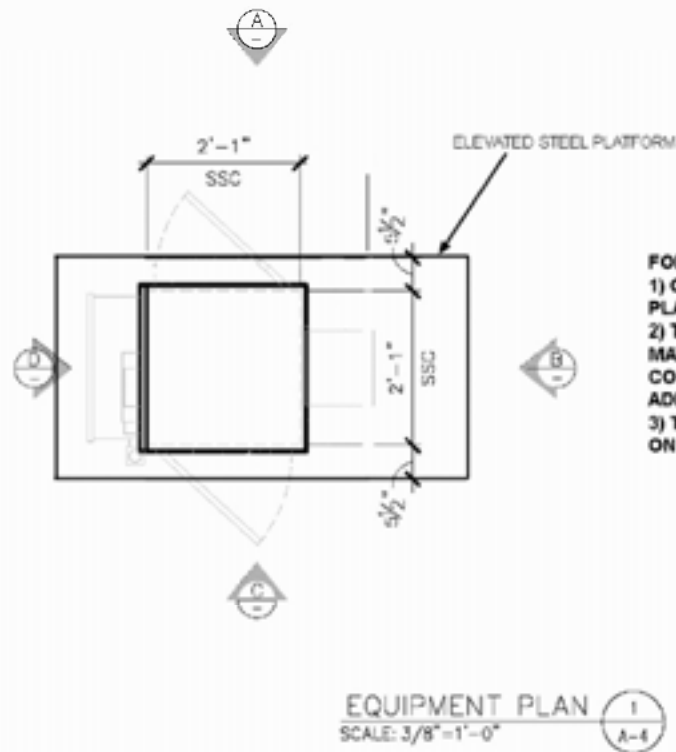
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| 0 | 03/12/10 | PRELIMINARY DRAWINGS | MRM | MM | MM |

| | |
|---|--|
| SHEET A-3 | |
| STRUCTURAL NOTES, SECTIONS & DETAILS | |
| DRAWING NUMBER | |
| 1038509 | |

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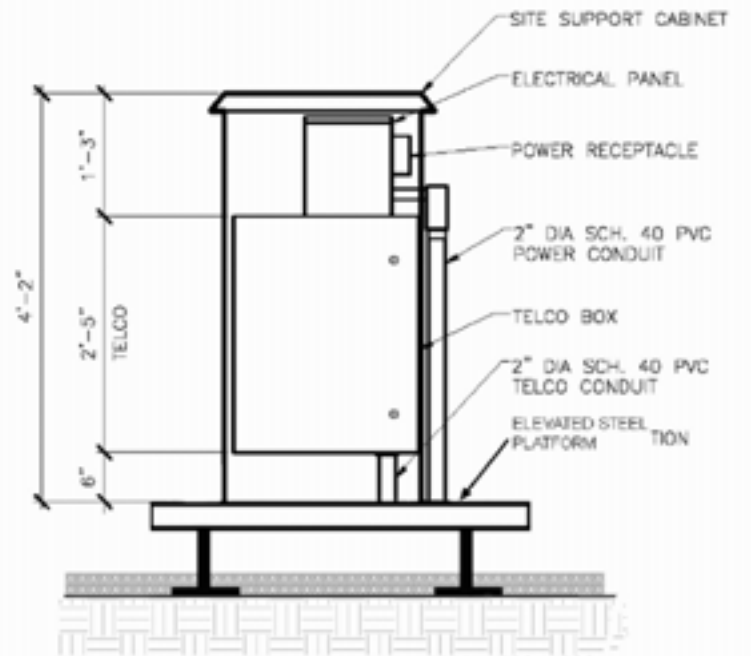
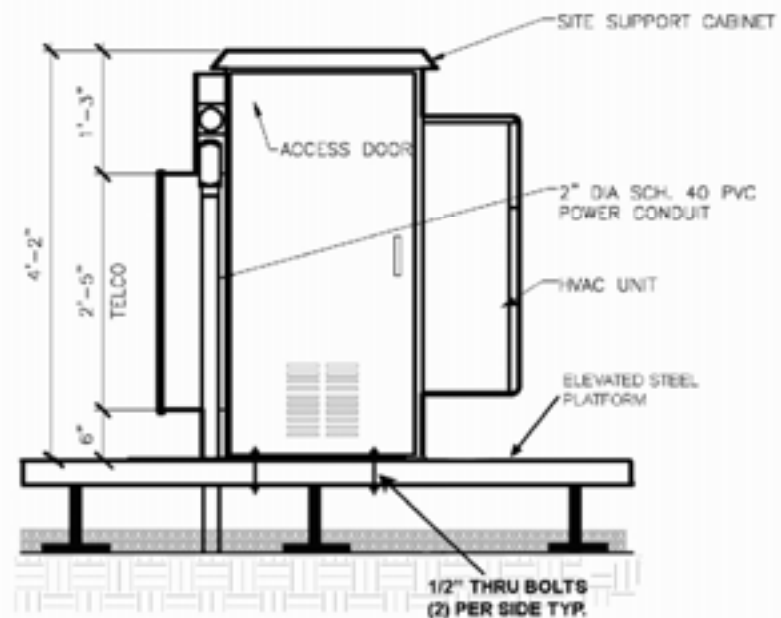
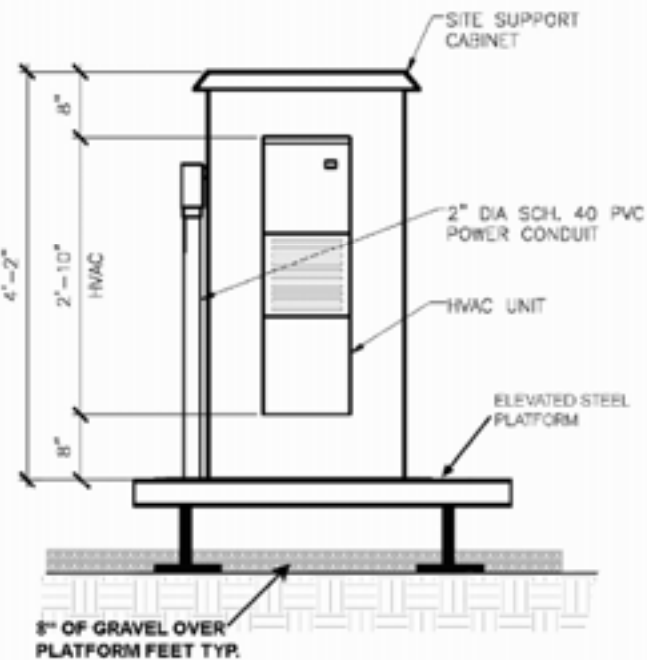
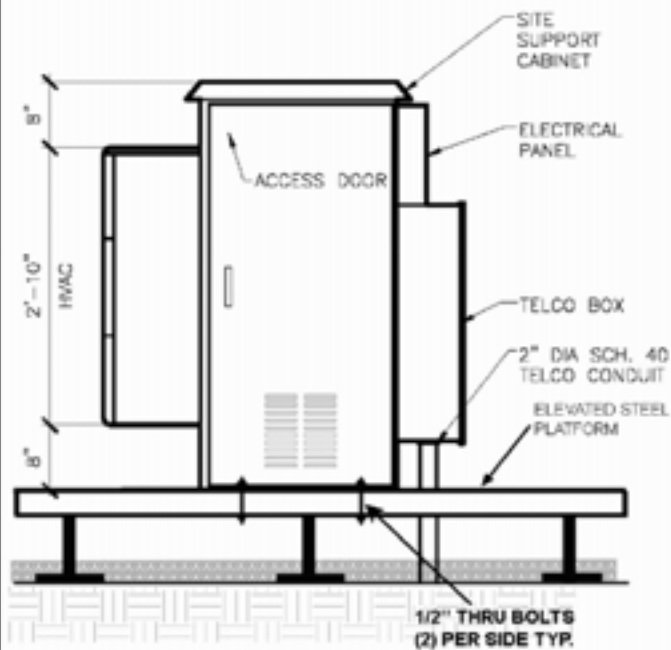


FOR CRUSHED STONE/GRAVEL INSTALLATION:
 1) GRAVEL MUST BE PUSHED BACK IN ALL AREAS WHERE THE PLATFORM WILL BE INSTALLED. PUSH BACK TO WEED BARRIER.
 2) THE GRAVEL MAY BE REUSED AND/OR ADDITIONAL GRAVEL MAY NEED TO BE ADDED TO ENSURE THE DEPTH IS AT THE PRE-CONSTRUCTION LEVEL. THE CONTRACTOR IS TO ENSURE THAT ADDITIONAL GRAVEL MATCHES EXISTING GRAVEL.
 3) THE PLATFORM'S FEET MUST BE PLACED AT GRADE LEVEL ON TOP OF THE WEED BARRIER AND COVERED GRAVEL 8" DEEP.

NOTE:
 SPECIFIC EQUIPMENT CABINET MODEL TO BE DETERMINED.



CABINET PHOTOS



| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|---|-----|-----|-------|
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(S: Site ID) **MO-STL5433** (S: Site Name) **Mason-Labadie #31**

| Identification | | Location | |
|-----------------------|---|---------------------|------------------|
| C: Candidate ID | c | Mkt: Market Name | St Louis, MO |
| C: Candidate Rank | Primary | C: Address | 1850 Baxter Road |
| C: Candidate Status | Active | C: City | Chesterfield |
| | | C: ZIP | 63017 |
| | | C: Jurisdiction | Chesterfield, MO |
| | | C: County | |
| | | C: State | MO |
| | | C: Latitude | 38.63513889 |
| | | C: Longitude | -90.55277778 |
| Access | | | |
| C: Directions | SA. From the intersection of I-64 and I-270, US40/61 west to SR 340, SR 340 south to Baxter Rd, Baxter Rd southeast to Summer Ridge DR, continue past Summer Ridge Dr approximately 0.16 miles to access road on the east side of Baxter Rd, continue east on access road approximately 0.25 miles to transmission tower. | | |
| C: Special Access | None | | |
| C: After Hours Access | | | |
| C: Gate Combination | C: Cabinet Combination | C: Generator Access | |

| Project Information | |
|---------------------|-------------------------------------|
| Prj: Project ID | MO-STL_Phase2 |
| Prj: Project Status | AZP |
| Workplan Template | S: WPT: New Site Build Large Market |

| Key Tasks (Forecast, Actual) | |
|--|------------|
| T: (F) Structure Lease Complete (050) Finish | 04.09.2010 |
| T: (F) Zoning Submitted (060) Finish | 04.09.2010 |
| T: (F) Zoning Approval Confirmed (M6) Finish | 04.29.2010 |
| T: (F) Pull Building Permit (090) Finish | 05.07.2010 |
| T: (F) Construction Start (100) Finish | 08.30.2010 |
| T: (F) Construction Complete (130) Finish | 09.13.2010 |
| T: (F) Site Commissioning (140) Finish | 12.06.2010 |
| T: (F) On-Air (150) Finish | 12.10.2010 |

(For initial site builds only)

| Site Details | | | |
|----------------------------------|------------------------|---------------------------------------|-----------------------|
| S: Site Status | AZP | C: Structure Type | UT-Transmission Tower |
| S: Site Designation | New Site Build | C: Structure Height (ft) | 120 |
| S: Current Technology | WiMax | S: Equipment Manufacture | |
| S: RF Site Type | RF Site | S: Equipment Type | DAP |
| S: BH Site Type | Spur Site | S: Equipment Location | |
| S: POP Site Type | No POP | C: Power Meter Number | |
| C: Comm DNS Name | | C: Digi Phone # | |
| C: Digi Request Activation? | | C: Digi SIM # | |
| C: Digi Status | | C: Working POTs or Circuit ID at site | |
| C: LAN IP | | C: WAN IP | |
| Contact Information | | | |
| C: Access Contact Name | | C: Property Owner | |
| C: Access Contact Number | | C: Property Contact Name | |
| LA: Landlord Contact Name | | C: Property Contact Phone | |
| LA: Landlord Contact Number | | IC: Outage Contact 1 | |
| C: MLA Owner (1st lease) | Other MLA | IC: Outage Contact 2 | |
| C: MLA Site ID | N/A | IC: Outage Contact 3 | |
| C: MLA Contact Name | Tim Webers (Ameren UE) | C: Power Company | Ameren UE |
| C: MLA Contact Phone | 314-564-2993 | C: Power Company Contact # | 800-562-7683 |
| NOC Phone #: | 866-316-7575 | noc@clearwire.com | |
| A: C: Access/NOC Number | | S: Field Tech | |
| C: Telco carrier | AT&T | S: Field Tech Phone | |
| C: Telco Company Contact # | 800-499-7928 | S: Ops Manager | |
| C: Fiber carrier | | S: Ops Manager Phone | |
| C: Fiber Company Contact # | | S: Project Manager | Michael D Moore |
| S: Leasing Specialist | Steve Ward | S: Project Manager Phone | |
| S: Leasing Specialist Phone | | S: Construction Specialist | C Huffman |
| S: Construction Specialist Phone | | C: Facility Engineer | |
| S: RF Engineer | Jason Gibbs | C: Fac Eng: Phone | |
| S: RF Engineer Phone | | | |
| S: BF Engineer | | | |
| S: BF Engineer Phone | | | |
| S: BH Project Manager | Michael D Moore | | |
| S: BHPM Phone | | | |

| RF: ID | RF: Sector ID | RF: Sector Status | RF: RAD Ctr A GL (ft) | RF: Sector Azimuth | RF: Elec. Tilt | RF: Mech. Tilt | RF: Antenna Make/Model | Chan: Channel ID | Chan: Channel Number | Chan: Frequency | RF: Ret Installed | RF: Ret Quantity | RF: Available Channels | RF: Sector Width | RF: Technology | RF: Polarization | RF: Antenna Gain (dBi) |
|------------------|---------------|-------------------|-----------------------|--------------------|----------------|----------------|-----------------------------|------------------|----------------------|-----------------|-------------------|------------------|------------------------|------------------|----------------|------------------|------------------------|
| MO-STL5433c-2427 | A1 | Build | 125 | 0 | -4 | 0 | LLPX310R 65deg XX-pol Argus | | | | | | 1-3 | 65 | WIMAX_Motorola | Quad | 17.7 |
| MO-STL5433c-2443 | B1 | Build | 125 | 106 | -4 | 0 | LLPX310R 65deg XX-pol Argus | | | | | | 1-3 | 65 | WIMAX_Motorola | Quad | 17.7 |
| MO-STL5433c-2459 | C1 | Build | 125 | 240 | -2 | 0 | LLPX310R 65deg XX-pol Argus | | | | | | 1-3 | 65 | WIMAX_Motorola | Quad | 17.7 |

| MW Interconnect Information | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|--------------------|------------|-------------|-------------|----------|----------------------|---------------------|------------|-------------|------------|-----------|-----|----------|-----------------|---------------|------------------|----------|---------|----------------|--------------|------------|------|-----------|-----------|
| Site ID | Cand ID | Backhaul Site Type | Link ID | Link Status | Link Type | Distance | Designed to Capacity | Configured Capacity | MW Vendor | Radio Model | Modem Type | Freq Band | AGL | Azimuth | Antenna Model | Antenna Size | Equip Config | Sub Band | TX Type | TX Power (dBm) | Polarization | Target RSL | EIRP | TX Freq 1 | TX Freq 2 |
| MO-STL053 | b | Access Ring | 0000063019 | Build | MW-Licensed | 1.647 | 430 | 430 | Dragonwave | HD | Duo | 18 | 125 | 245.5761 | Andrew VHLP2-18 | 24" (0.6096m) | ODU RF/IDU Modem | B | TX-High | 8.5 | Vertical | -41.86 | 45.2 | 19375 | 19475 |

Clearvision Site Data Report
Report Date: 2010-2-25

MO-STL5433 (S: Site ID) **Mason-Labadie #31** (S: Site Name)

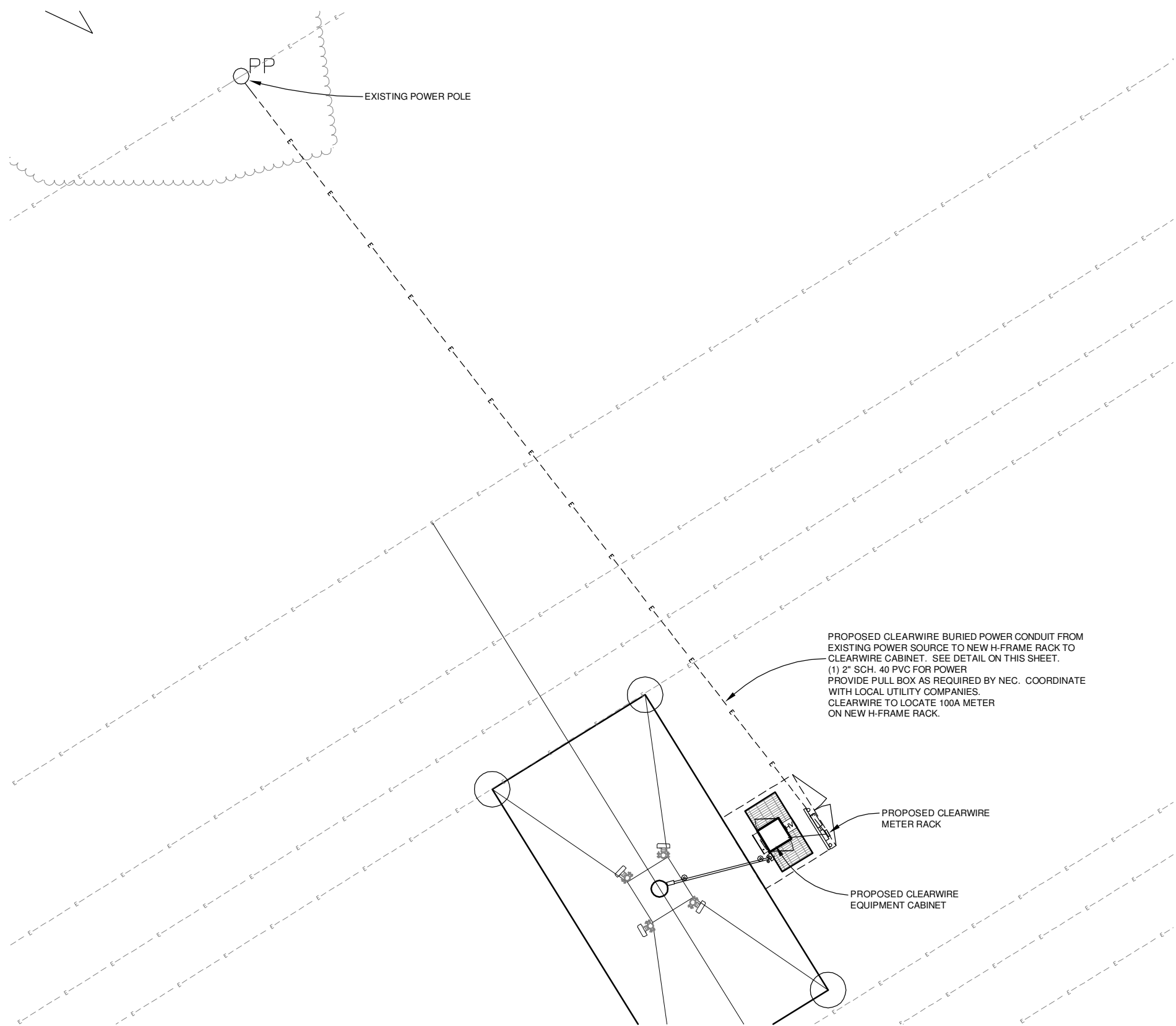


SITE ID: MO-STL5433
MASON-LABADIE #31
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SHEET A-5
RF/MW CONFIG
DRAWING NUMBER
1038509

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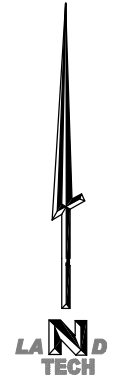
PROPOSED CLEARWIRE BURIED POWER CONDUIT FROM EXISTING POWER SOURCE TO NEW H-FRAME RACK TO CLEARWIRE CABINET. SEE DETAIL ON THIS SHEET.
 (1) 2" SCH. 40 PVC FOR POWER
 PROVIDE PULL BOX AS REQUIRED BY NEC. COORDINATE WITH LOCAL UTILITY COMPANIES.
 CLEARWIRE TO LOCATE 100A METER ON NEW H-FRAME RACK.

PROPOSED CLEARWIRE METER RACK

PROPOSED CLEARWIRE EQUIPMENT CABINET

GENERAL SPECIFICATIONS:

1. WIRING SHALL BE AWG STRANDED COPPER WITH THHN OR EQUIVALENT INSULATION. #12 MINIMUM INSTALLED IN 1/2" MINIMUM CONDUIT. SIGNAL WIRING SHALL BE INSULATED #22 AWG. NO BX OR ROMEX CABLE IS PERMITTED. CONDUITS SHALL BE SURFACE MOUNTED.
2. WIRING DEVICES AND EQUIPMENT SHALL BE UL LISTED SPECIFICATIONS GRADE.
3. MATERIALS SHALL BE NEW AND CONFORM TO THE APPLICABLE STANDARDS ESTABLISHED FOR EACH ITEM BY THE ORGANIZATIONS LISTED BELOW.
 - AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
 - UNDERWRITER'S LABORATORY (UL)
 - NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA)
 - AMERICAN STANDARDS ASSOCIATION (ASA)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
4. INSTALLATION OF MATERIALS SHALL COMPLY WITH REGULATIONS OF:
 - THE NATIONAL ELECTRICAL CODE (NFPA 70)
 - THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C-2)
 - THE LIFE SAFETY CODE (NFPA 101)
 - LOCAL BUILDING CODES
5. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING LOCKNUTS AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTOR. RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A FULL-SIZED EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUIT'S CONDUIT
6. OUTLET AND JUNCTION BOXES SHALL BE ZINC-COATED OR CADMIUM PLATED STEEL, NOT LESS THAN 4" SQUARE AND SUITABLE FOR THE TYPE SERVICE AND OUTLET. OUTLET AND JUNCTION BOXES SHALL BE SURFACE MOUNTED AND LABELED WITH BRANCH CIRCUIT BREAKER NUMBER.
7. LABEL ALL EQUIPMENT SERVED FROM CLEAR WIRE TECHNOLOGIES, INC. PANEL BOARD WITH PHONEMIC LABELS SIZED IN RELATION TO USAGE.
8. INDOOR CONDUCTORS SHALL BE INSTALLED IN EMT UNLESS NOTED OTHERWISE. OUTDOOR CONDUCTORS SHALL BE INSTALLED IN RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. WHERE EMT IS USED, IT SHALL BE WITH ONLY LISTED COMPRESSION FITTINGS. NO SET SCREW FITTINGS SHALL BE ALLOWED.
9. CONTRACTOR TO PROVIDE AND INSTALL ENGRAVED LABEL ON THE CLEARWIRE TECHNOLOGIES, INC. METER SOCKET ENCLOSURE.



ELECTRICAL SITE PLAN
 SCALE: 1"=10'

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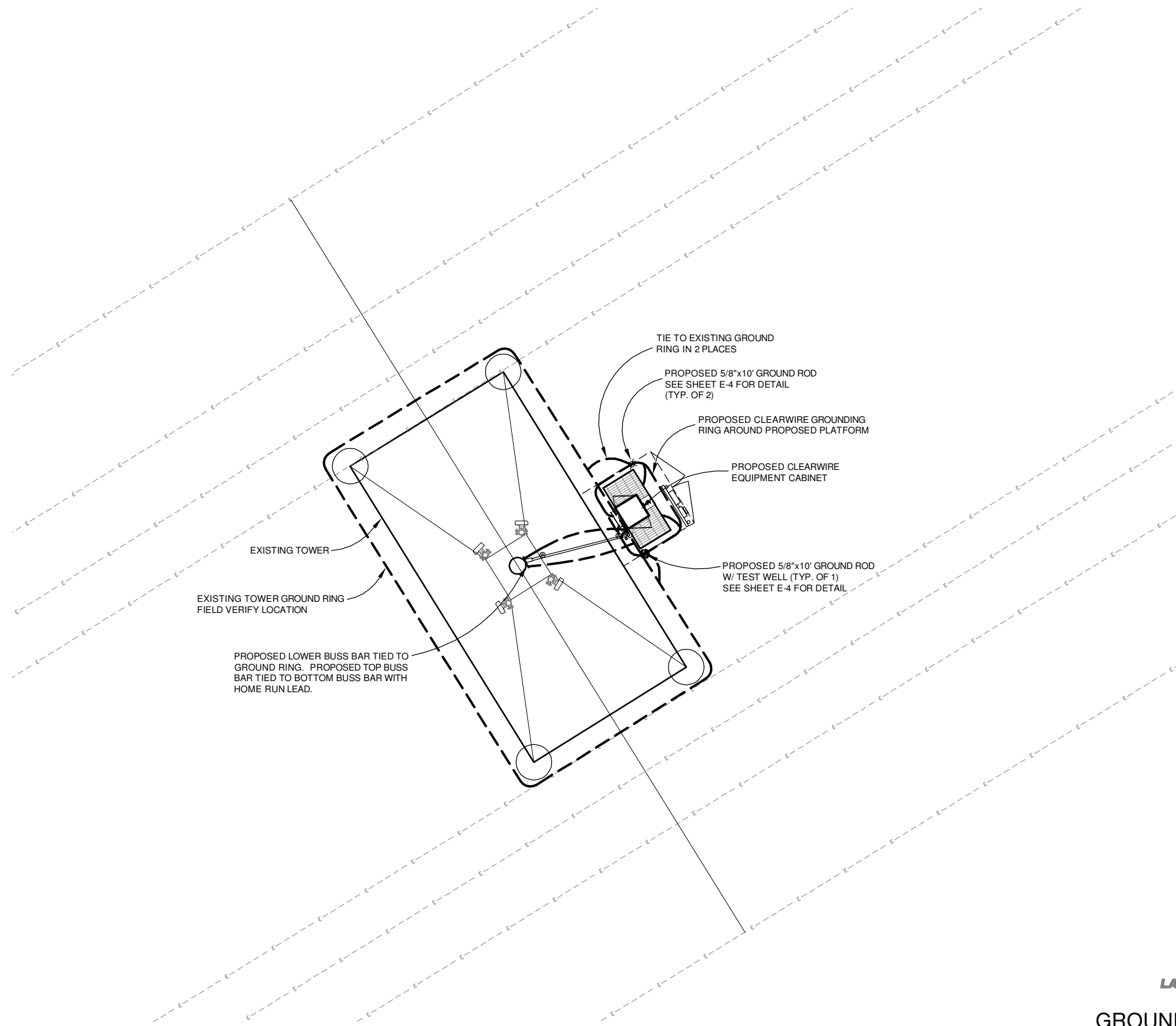
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MASON-LABADIE #31
 1850 BAXTER ROAD
 CHESTERFIELD, MO 63017

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SHEET E-1
 ELECTRICAL SITE PLAN
 DRAWING NUMBER
 1038509

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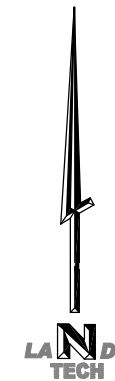


GROUNDING SPECIFICATIONS:

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
3. GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID Cu UNLESS NOTED OTHERWISE.
4. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC (GAWELD) UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE GAWELDED TO GALVANIZED SURFACES, SPRAY GAWELD WITH GALVANIZING PAINT.
5. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BOND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.
6. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUB INC.) PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
7. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1'-0" ABOVE GRADE AND SEAL TOP WITH SILICONE MATERIAL.
8. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZING PAINT.
9. GROUNDING WIRE CONNECTIONS SHALL BE 3-CRIMP C-TAP COMPRESSION TYPE. SPLIT BOLTS ARE NOT ACCEPTABLE.
10. GROUND RODS SHALL BE COPPER CLAD STEEL 5/8"x10' SPACED NOT LESS THAN 10' O.C.
11. CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS.
12. SURFACE CONNECTIONS SHALL BE MADE TO BARE METAL. PAINTED SURFACES SHALL BE FILED TO ENSURE PROPER CONTACT. APPLY NON-OXIDIZING AGENT TO CONNECTIONS.
13. COPPER BUSES SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
14. GROUNDING CONDUCTORS SHALL BE RUN THROUGH PVC SLEEVE WHERE ROUTED THROUGH WALLS, FLOORS, AND CEILING. ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
15. HARDWARE (I.E. NUTS, BOLTS, WASHERS, ETC.) IS TO BE STAINLESS STEEL.
16. EXOTHERMIC WELDS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
17. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING LOCKNUTS AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A FULL SIZED EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUIT'S CONDUIT.
18. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANEL BOARD.
19. GROUND BARS (SECTOR, COLLECTOR, MASTER) SHALL BE BARE 1/4"x4" COPPER, LARGE ENOUGH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUND CONNECTIONS. THE HARDWARE SECURING THE MGB SHALL ELECTRICALLY INSULATE THE MGB FROM ANY STRUCTURE TO WHICH IT IS FASTENED.
20. APPLY TMB KOPR-SHIELD OR APPROVED EQUAL PRIOR TO MAKING MECHANICAL CONNECTIONS. CONNECTIONS SHALL BE MADE WITH STAINLESS STEEL BOLTS, NUTS AND LOCK WASHERS 3/8" DIAMETER MIN. WHERE GALVANIZING IS REMOVED FROM METEL, IT SHALL BE PAINTED OR TOUCHED UP WITH 'GALVONOX' OR EQUAL.
21. ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS, FRAMES OF EQUIPMENT AND WHERE EXPOSED FOR GROUNDING CONDUCTOR TERMINATION SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL SELF-TAPPING SCREWS.
22. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE (NON-CONDUCTIVE). DO NOT USE METAL BRACKETS OR SUPPORTS WHICH WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
23. ALL BOLTS, WASHERS AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
24. THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE TO EARTH DOES NOT EXCEED 5.0 OHMS. PROVIDE A COPY OF TESTING REPORT, INCLUDING THE METHOD AND INSTRUMENTS USED TO VERIFY RESISTANCE TO CLEARWIRE REPRESENTATIVE.
25. BOND CABINET THROUGH THE MAIN GROUND BAR.

GROUNDING LEGEND

- INSPECTION WELL
VERIFY LOCATION W/CONSTR. MGR.
- 5/8"x10' COPPER CLAD, STEEL GROUND ROD. USE EXOTHERMIC CONNECTION TO GROUND CABLE.
- #2 SOLID COPPER TINNED BURIED
- BURIED GROUNDING CABLE TO CABLE CONNECTION USING EXOTHERMIC PROCESS.



GROUNDING PLAN

SCALE: 1"=15'



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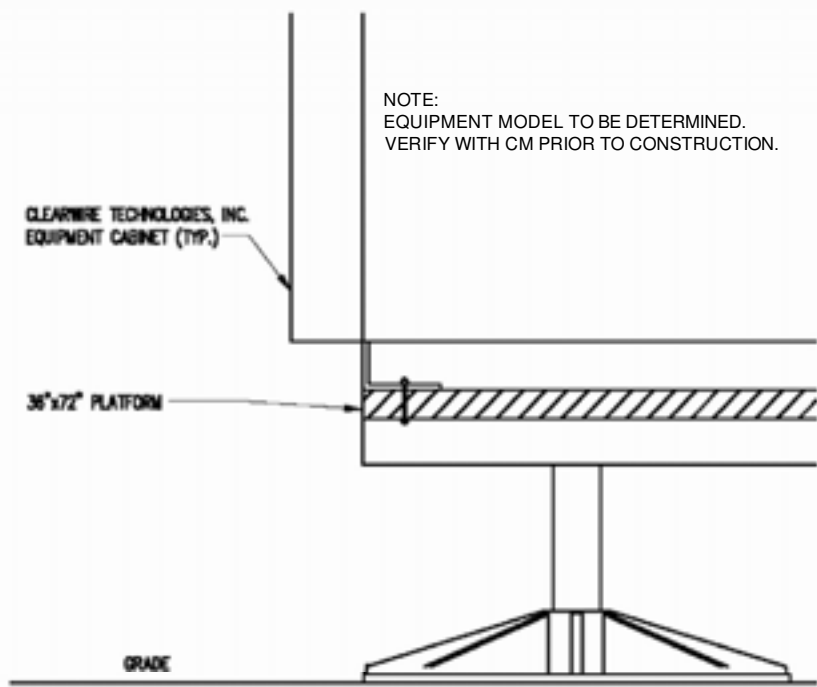
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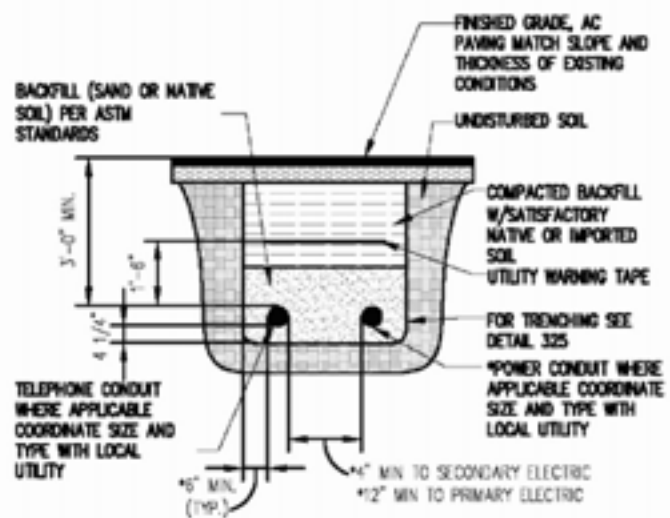
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SHEET E-2
GROUNDING PLAN
DRAWING NUMBER
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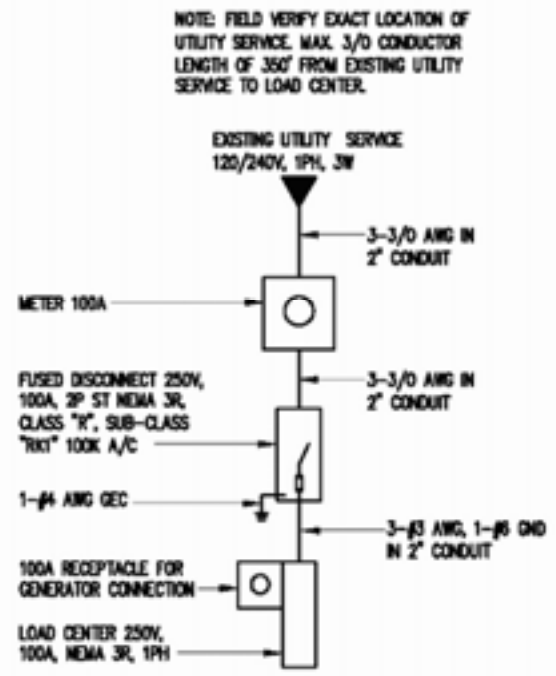
PLATFORM MOUNTING DETAIL 1
SCALE: N.T.S. E-3



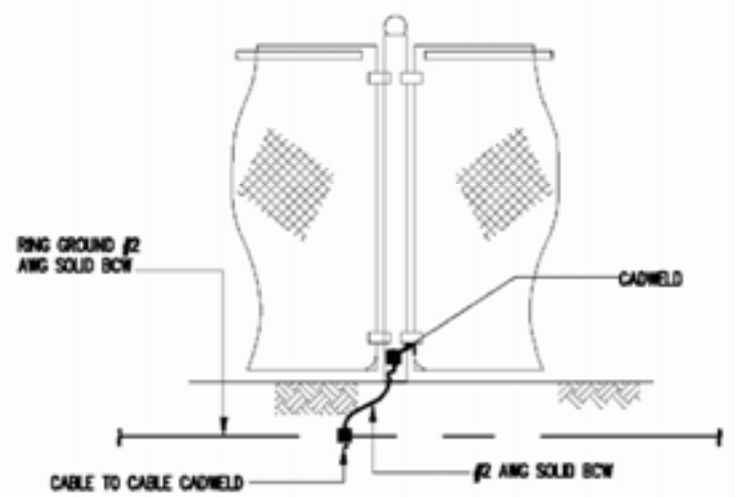
TYPICAL TRENCH SECTION 2
SCALE: N.T.S. E-3

GENERAL NOTES:

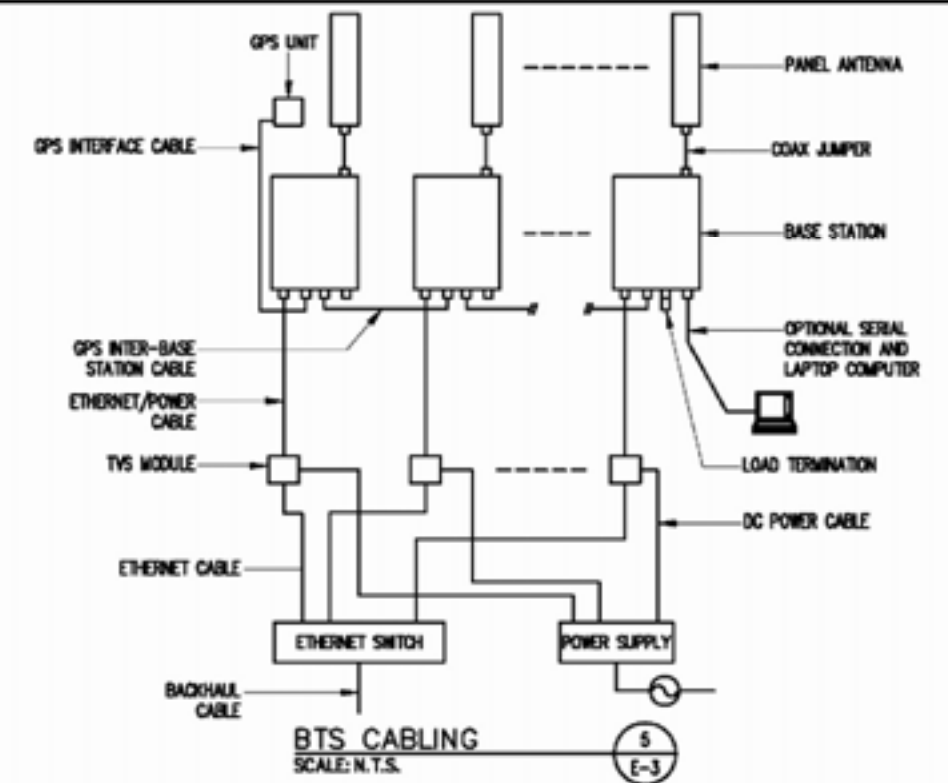
- OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO CLEARWIRE TECHNOLOGIES, INC.
- SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.
- REDLINED AS-BUILTS ARE TO BE DELIVERED TO CLEARWIRE TECHNOLOGIES, INC. REPRESENTATIVE.
- PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, TELCO SYSTEM, AND THE GROUNDING SYSTEM AS SHOWN ON THESE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER AND SHALL BE SUBJECT TO APPROVAL BY CLEARWIRE TECHNOLOGIES, INC. REPRESENTATIVE.
- CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
- PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
- REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE SITE OWNERS REPRESENTATIVE. DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY. USE OF THE PROPERTY'S DUMPSTER IS PROHIBITED.
- CONTRACTOR TO CONFIRM AVAILABLE CAPACITY AT EXISTING UTILITY PEDESTAL AND ADVISE ENGINEER OF SERVICE SIZE AND FAULT CURRENT LEVEL.
- IF PEDESTAL DOES NOT HAVE ADEQUATE CAPACITY, CONTRACTOR TO SUBMIT COST QUOTATION TO UPGRADE. UPON APPROVAL OF SUBMITTED COST QUOTATION, THE CONTRACTOR SHALL PROVIDE NEW SERVICE AND/OR UPGRADE SERVICE FEEDERS AND EQUIPMENT/ELECTRODE GROUNDING CONDUCTORS SIZE ACCORDINGLY.
- CONTRACTOR SHALL VERIFY SEPERATION DIMENSION BETWEEN POWER COMPANY ELECTRICAL CONDUITS AND LP GAS PIPES AS PER UTILITY COMPANY, LOCAL CODES, NEC, NFPA, AND GAS TANK MANUFACTURER'S SPECIFICATION.
- CONTRACTOR SHALL VERIFY THAT THE TOTAL NUMBER OF SERVICE ENTRANCE DISCONNECTS IN THE EXISTING UTILITY COMPANY PEDESTAL MUST NOT EXCEED SIX. IF THE NEW SERVICE ADDED EXCEEDS THIS VALUE, CONTRACTOR MUST COORDINATE WITH THE UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION THE RUNNING OF AN ADDITIONAL EXCLUSIVE AND DEDICATED SERVICE LATERAL SET FOR THE NEW LOAD ADDED TO THE COMPOUND AS PER NEC ARTICLE 230-2(B).
- THE EQUIPMENT/PROTECTIONS MUST BE RATED FOR STANDARD AIC RATE HIGHER THAN INCOMING EQUIPMENT AND/OR UTILITY COMPANY AIC RATE.



ONE LINE DIAGRAM 3
SCALE: N.T.S. E-3



TYPICAL FENCE BONDING DETAIL 4
SCALE: N.T.S. E-3



BTS CABLING 5
SCALE: N.T.S. E-3

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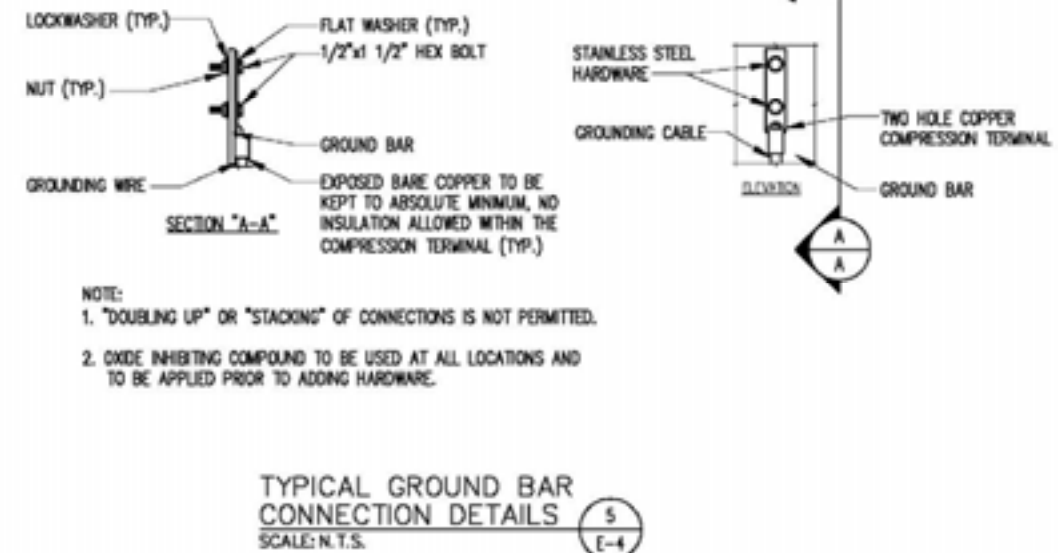
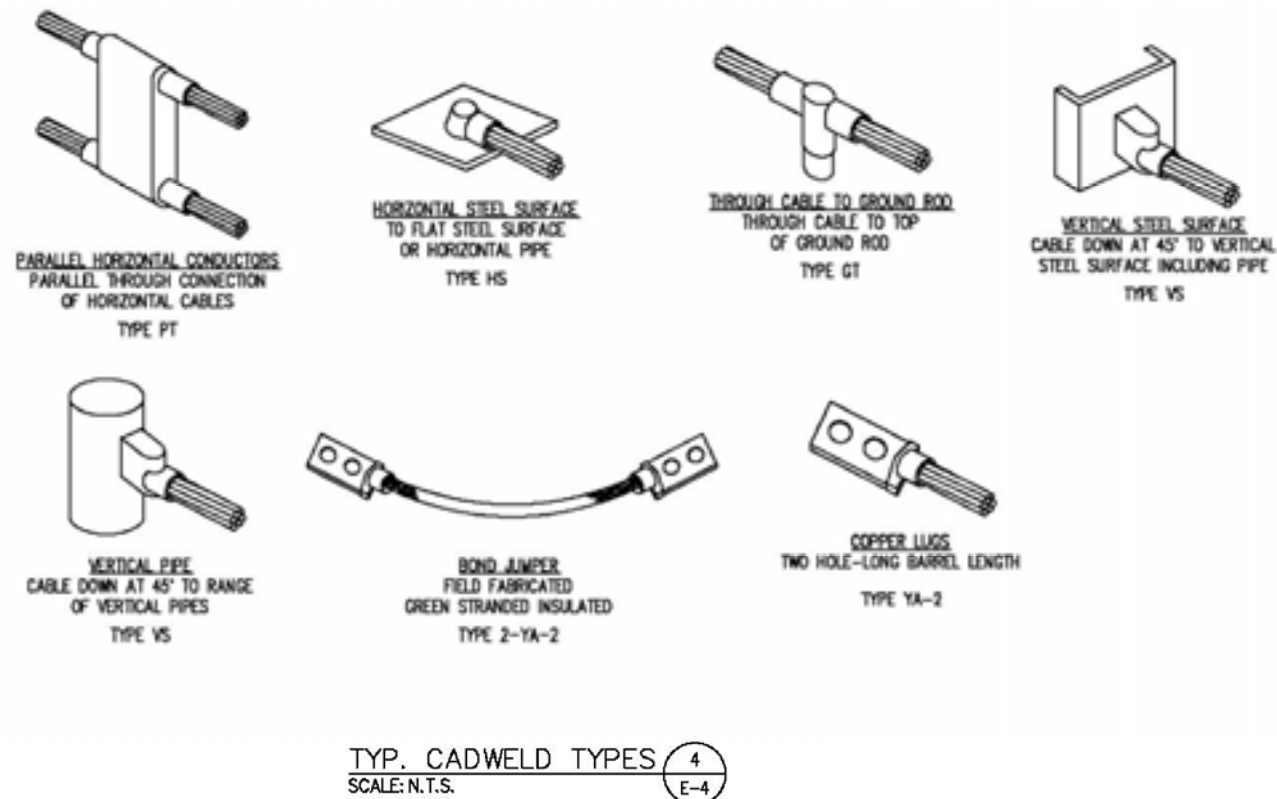
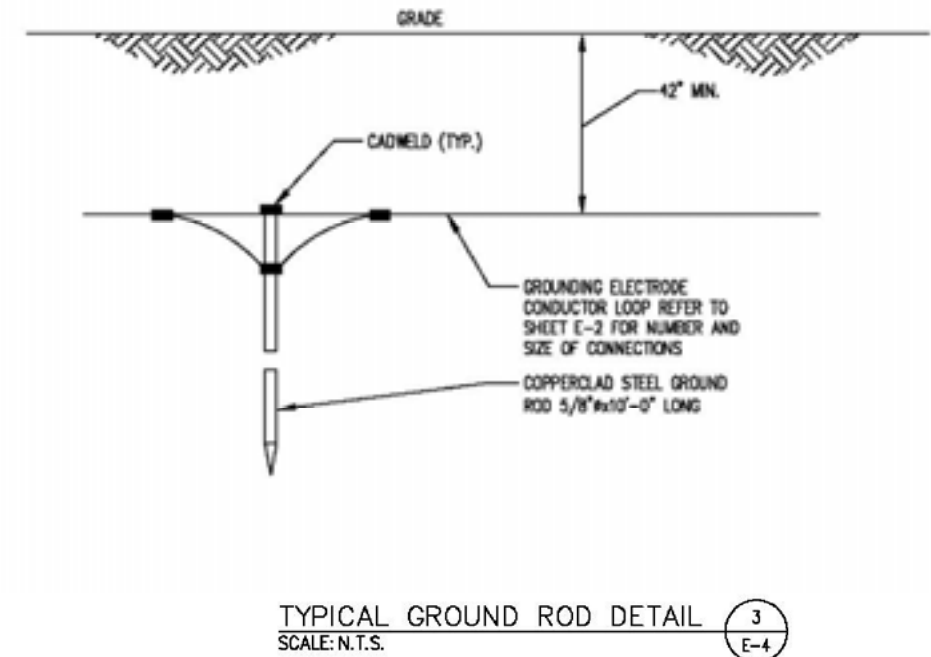
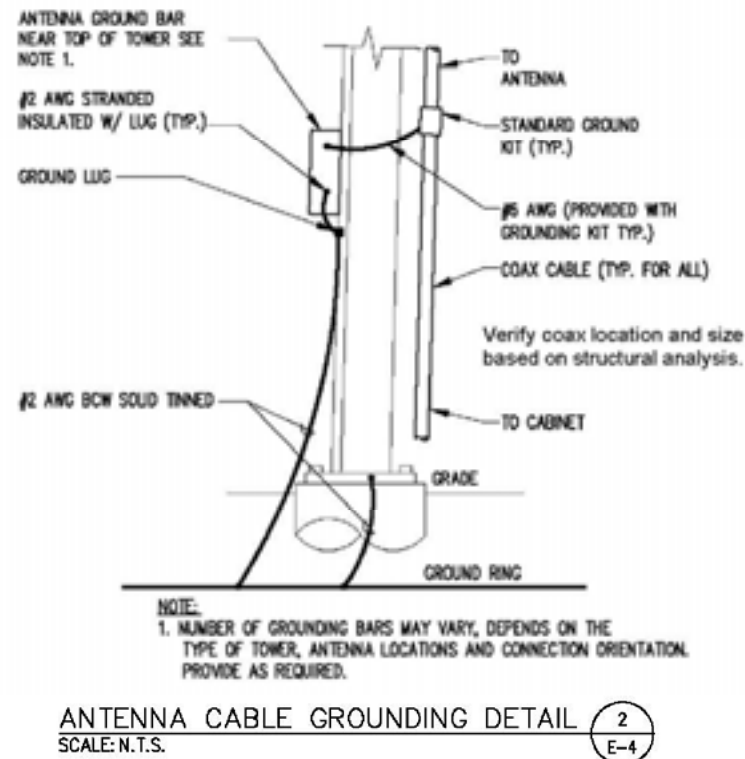
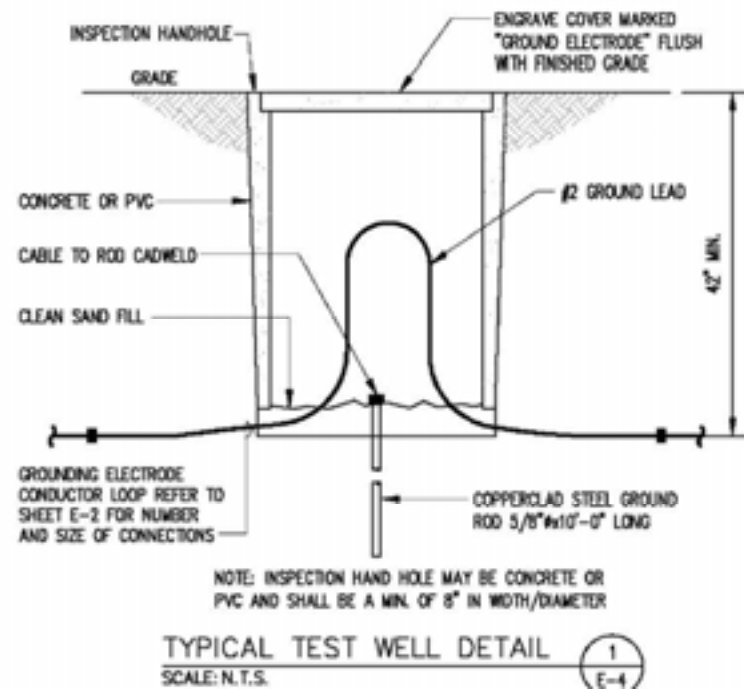
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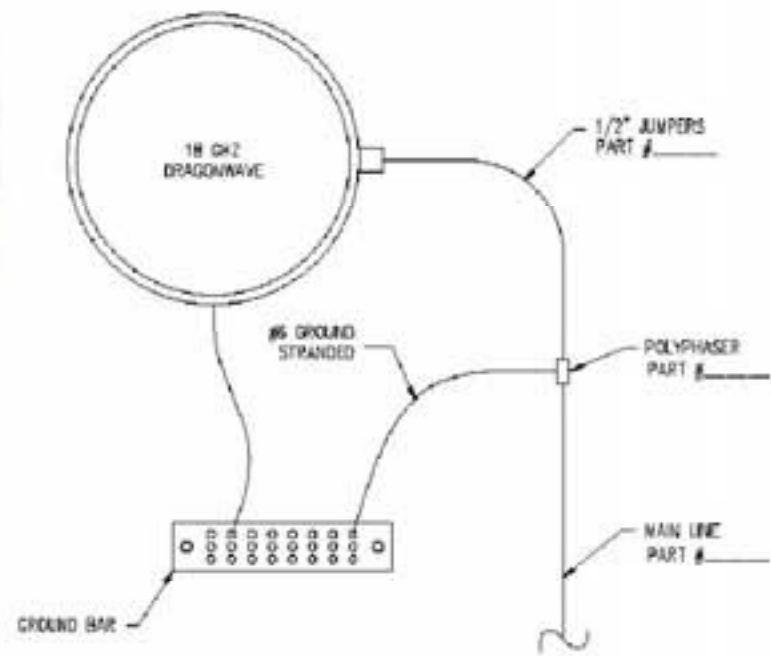
SHEET E-3
ELECTRICAL DETAILS
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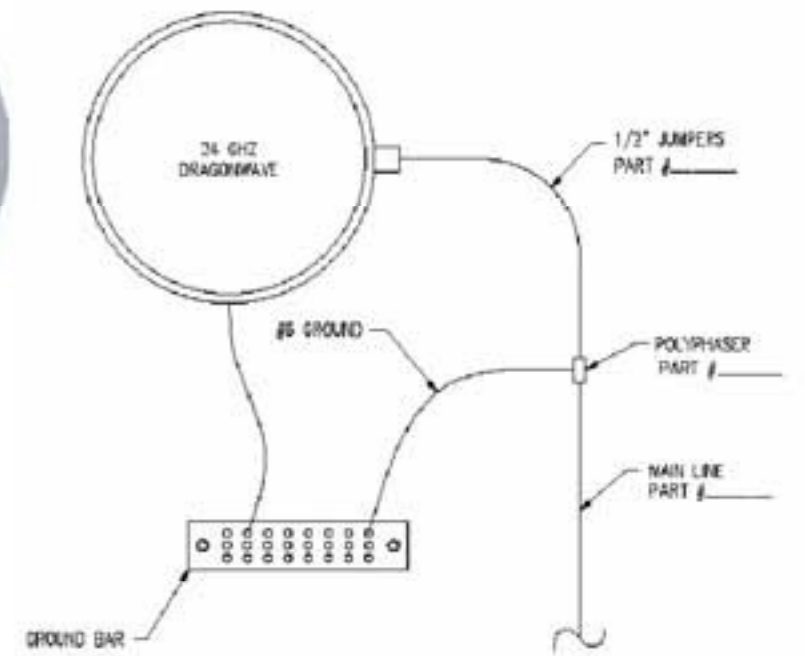


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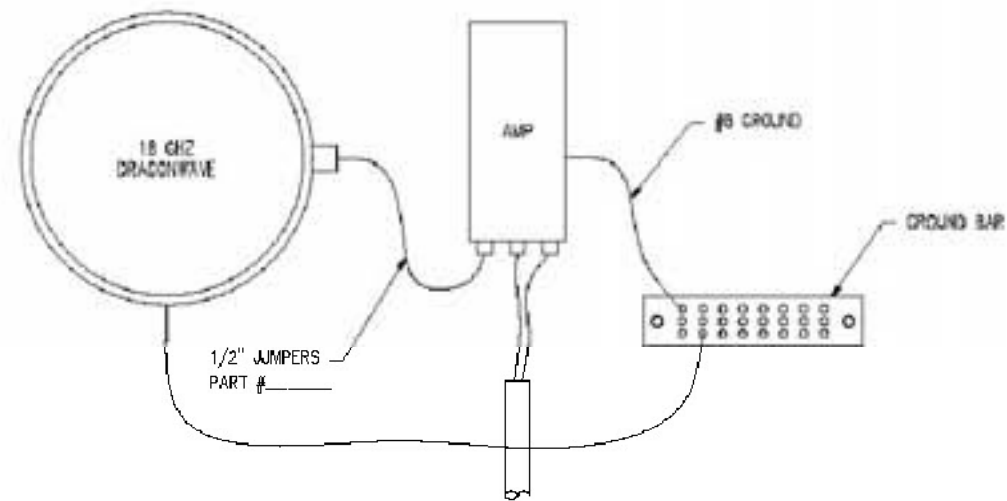


18 GHZ DRAGONWAVE GROUNDING
SCALE: N.T.S. (1) E-5

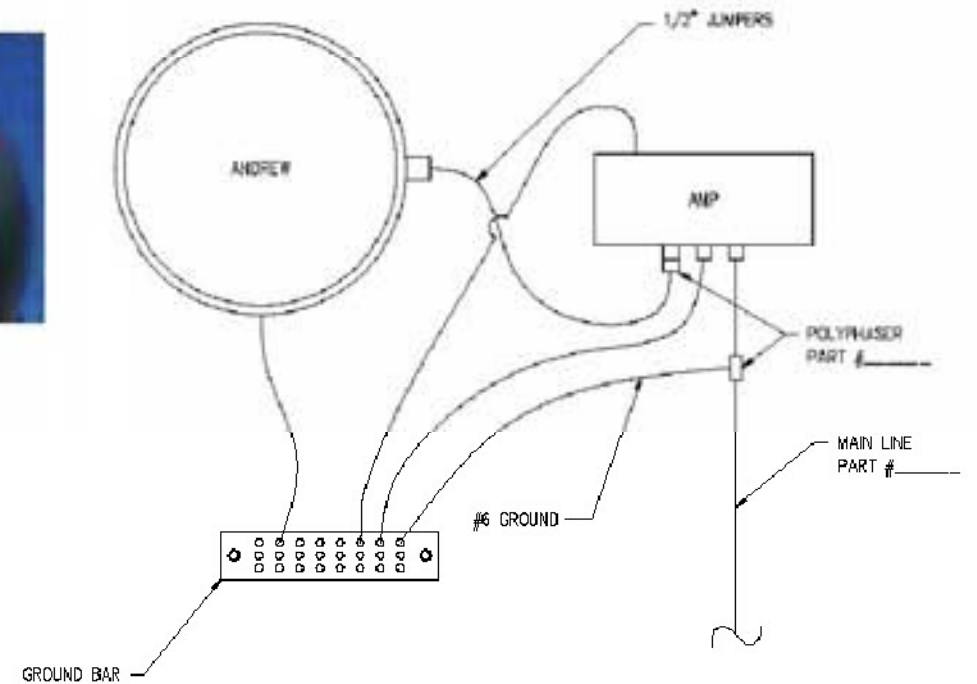
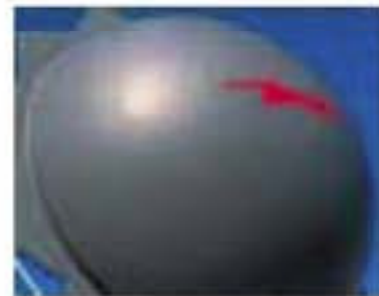


24 GHZ DRAGONWAVE GROUNDING
SCALE: N.T.S. (2) E-5

NOTE:
ANTENNA MODEL AND AZIMUTH(S)
TO BE DETERMINED.



18 GHZ DRAGONWAVE/AMP GROUNDING
SCALE: N.T.S. (3) E-5



ANDREW GROUNDING
SCALE: N.T.S. (4) E-5

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|---------------------------|--|
| SHEET E-5 | |
| GROUNDING ANTENNA DETAILS | |
| DRAWING NUMBER | |
| 1038509 | |