



**Boone County Purchasing**  
613 E. Ash Street, Room 110  
Columbia, Mo 65201

## **REQUEST FOR BID (RFB)**

Melinda Bobbitt, CPPO, CPPB  
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### ***Bid Data***

Bid Number: **71-12NOV15**  
Commodity Title: **Radio Tower Assembly and Erection at the Emergency  
Communication Center**

**DIRECT ANY BID FORMAT OR SUBMISSION QUESTIONS TO PURCHASING DEPT.**

### ***Bid Submission Address and Deadline***

Day/Date: Thursday, November 12, 2015  
Time: 1:00 p.m. (Bids received after this time will be returned unopened)  
Location/Mail Address: Boone County Purchasing Department  
Boone County Annex Building  
613 E. Ash, Room 110  
Columbia, Mo 65201  
Directions: Annex Building is located at corner of 7<sup>th</sup> & Ash St.

### ***Bid Opening***

Day/Date: Thursday, November 12, 2015  
Time: 1:00 p.m., Central Time  
Location/Address: Boone County Purchasing Department  
Conference Room  
613 E. Ash  
Columbia, MO 65201

### ***Bid Contents***

1.0: Introduction and General Conditions of Bidding  
2.0: Primary Specifications  
3.0: Response Presentation and Review  
4.0: Response Form  
Attachments: Statement of Bidder's Qualifications  
Standard Terms and Conditions  
Instructions for House Bill 1549  
Work Authorization Certification  
Individual Bidder Affidavits  
Debarment Form  
Anti-Collusion Statement

*Bid Contents, continued*

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Signature & Identify of Bidder

Bidder's Acknowledgement

Annual Wage Order #22

Affidavit of Compliance with OSHA

Affidavit of Compliance with Prevailing Wage Law

"No Bid" Response Form

## 1. Introduction and General Conditions of Bidding

**1.1. INVITATION** – The County of Boone, through its Purchasing Department, invites responses, which offer to provide the goods and/or services identified on the title page, and described in greater detail in Section 2.

### 1.2. DEFINITIONS

**County** – This term refers to the County of Boone, a duly organized public entity. It may also be used as a pronoun for various subsets of the County organization, including, as the context will indicate:

*Purchasing* – The Purchasing Department, including its Purchasing Director and staff.

*Department/s or Office/s* – The County Department/s or Office/s for which this Bid is prepared, and which will be the end user/s of the goods and/or services sought.

*Designee* – The County employee/s assigned as your primary contact/s for interaction regarding Contract performance.

**Bidder / Contractor / Supplier** – These terms refer generally to businesses having some sort of relations to or with us. The term may apply differently to different classes of entities, as the context will indicate.

*Bidder* – Any business entity submitting a response to this Bid. Suppliers, which may be invited to respond, or which express interest in this bid, but which do not submit a response, have no obligations with respect to the bid requirements.

*Contractor* – The Bidder whose response to this bid is found by Purchasing to meet the best interests of the County. The Contractor will be selected for award, and will enter into a Contract for provision of the goods and/or services described in the Bid.

*Supplier* – All business/entities which may provide the subject goods and/or services.

**Bid** – This entire document, including attachments. A Bid may be used to solicit various kinds of information. The kind of information this Bid seeks is indicated by the title appearing at the top of the first page. A “Request for Bid” is used when the need is well defined. A “Request for Proposal” is used when the County will consider solutions, which may vary significantly from each other or from the County’s initial expectations.

**Response** – The written, sealed document submitted according to the Bid instructions.

**1.3. BID CLARIFICATION** – Questions regarding this Bid should be directed in writing, preferably by e-mail, to the Purchasing Department. Answers, citing the question asked but not identifying the questioner, will be distributed simultaneously to all known prospective Bidders. Note: written requirements in the Bid or its Addenda are binding, but any oral communications between County and Bidder are not.

**1.4. Bidder Responsibility** – The Bidder is expected to be thoroughly familiar with all specifications and requirements of this Bid. Bidder’s failure or omission to examine any relevant form, article, site or document will not relieve them from any obligation regarding this Bid. By submitting a Response, Bidder is presumed to concur with all terms, conditions and specifications of this Bid.

**1.5. Bid Addendum** – If it becomes evident that this Bid must be amended, the Purchasing Department will issue a formal written Addendum to all known prospective Bidders. If necessary, a new due date will be established.

**1.6. AWARD** – Award will be made to the Bidder/s whose offer/s provide the greatest value to the County from the standpoint of suitability to purpose, quality, service, previous experience, price, lifecycle cost, ability to deliver, or for any other reason deemed by Purchasing to be in the best interest of the County. Thus, the result will not be determined by price alone. The County will be seeking the least costly outcome that meets the County needs as interpreted by the County.

**1.7. CONTRACT EXECUTION** – This Bid and the Contractor’s Response will be made part of any resultant Contract and will be incorporated in the Contract as set forth, verbatim.

**Precedence** – In the event of contradictions or conflicts between the provisions of the documents comprising this Contract, they will be resolved by giving precedence in the following order:

- 1) the provisions of the Contract (as it may be amended);
- 2) the provisions of the Bid;
- 3) the provisions of the Bidder's Response.

**1.8. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS** – Bidder agrees to be bound by the County's standard "boilerplate" terms and conditions for Contracts, a sample of which is attached to this Bid.

## **2. Primary Specifications**

### **ITEMS TO BE PROVIDED**

#### **1.0 GENERAL:**

1.01 Contractor shall provide all materials, machinery, equipment and services to completely assemble and erect a radio tower in accordance with these specifications and all applicable EIA and manufacturer-recommended specifications.

1.02 Contractor shall work with Owner and tower manufacturer, Sabre Industries, to coordinate delivery and shall unload and stage tower steel near erection site.

1.03 Owner will secure necessary FAA, FCC and local zoning clearances and authority.

1.04 Contractor shall be responsible for obtaining all required work permits.

1.05 Owner will furnish graded access up to the actual tower erection site.

1.06 Owner does not have electrical service at site. Contractor shall be responsible for providing any electrical power needed for tower assembly and erection.

1.07 All parts, materials, supplies and services will meet the minimum construction and erection standards recommended by the tower manufacturer.

1.08 Contractor shall utilize materials furnished by tower manufacturer. Any other materials, fastenings or supplies proposed for use on the project shall receive approval from Owner prior to installation.

1.09 All antennas and coaxial cables will be provided and installed under separate bid except where noted.

1.10 On a daily basis, Contractor shall leave the site clear of construction debris, excess material or unused supplies or equipment including cans, crates, boxes, plastic bags, bolt cartons or any rubbish resulting from the work. All surplus or excess materials and supplies provided by tower manufacturer shall remain at site.

1.11 Contractor will have free access to the tower site. Owner will provide list of project contact people for Contractor's use. Contractor shall provide list of all on-site employees to Owner.

1.12 After completion, tower will be jointly inspected by the Contractor and Owner's representative. All required corrections shall be made prior to any submittal of claim for payment.

1.13 Detailed installation diagrams and documents shall be provided by Owner to Contractor. Following completion of the tower erection, all documents shall be returned to Owner.

1.14 Erection shall be accomplished using provided nuts, bolts, and fasteners with no field welding, cutting, or drilling required or allowed.

1.15 Any damage to the galvanizing will be touched up with Z.R.C. Cold Galvanizing Compound or approved equivalent.

1.16 Contractor shall be limited to work occurring between 7:00 a.m. and 7:00 p.m. local time.

## **2.00 TOWER COMPONENTS:**

2.01 Refer to attached design and erection drawings for the details of the tower.

2.02 The tower is a three-leg, lattice type self-supporting structure comprised of solid rod legs and standing 175' above base mounting level.

2.03 A nominal 14' face platform will be mounted at the top of structural tower steel.

2.04 Three waveguide ladders will be mounted on the tower, one ladder per face and placed as directed by Owner's representative.

2.05 One climbing ladder with safety-climb device will be mounted centered on the south face of the tower.

2.06 Two microwave dish mounts will be mounted at each of 135', 150' and 165' elevations.

2.07 Antenna side mount brackets will be mounted as shown in erection drawings.

## **3.00 ATTACHMENTS:**

3.01 All attachments shall be considered a part of this specification.

3.02 Attachments include:

Electronic copy of detailed erection drawings as furnished by Sabre Industries

Electronic copy of general site layout

## **4.00 SUBMITTALS**

4.01 In addition to other information, Bidder shall submit qualifications to include:

4.01.a Complete contact information for four (4) Vendor's customers who were directly involved with Vendor during erection of similar sized and similar style tower structures.

4.01.b List of crew members and their experience who will work on this project.

**5.00 Debarment and Suspension:** By submission of its Bid Response, Vendor agrees to comply with the provisions of Executive Order 12549, regarding Debarment and Suspension. Specifically, the Vendor certifies that neither he/she nor their principals are 1.) presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by a Federal department or agency, 2) have not with a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property; 3.) are not presently indicted for or otherwise criminal or civilly charged by a government entity with commission of

any of the offenses stated above and 4.) have not within a three year period preceding this bid had one or more public transactions terminated for cause or default.

**6.00 Certification of Non-Resident/Foreign Contractors:** If the Contractor is a foreign corporation or nonresident Contractor, it is agreed that the Contractor shall procure and maintain during the life of this contract:

- A. A certificate of authority to transact business in the State of Missouri from the Secretary of State, unless exempt pursuant to the provisions of Section 351.572 RSMo.
- B. A certificate from the Missouri Director of Revenue evidencing compliance with transient employer financial assurance law, unless exempt pursuant to the provisions of Section 285.230 RSMo.

**7.00 Insurance Requirements -** The Contractor shall not commence work under this contract until they have obtained all insurance required under this paragraph and the Certificate of Insurance has been approved by the County, nor shall the Contractor allow any subcontractor to commence work on their subcontract until all similar insurance required of subcontractor has been so obtained and approved. All policies shall be in amounts, form and companies satisfactory to the County which must carry an A-6 or better rating as listed in the A.M. Best or equivalent rating guide. Insurance limits indicated below may be lowered at the discretion of the County.

- A. Employers Liability and Workers Compensation Insurance -** The Contractor shall take out and maintain during the life of this contract, **Employers Liability and Workers Compensation Insurance** for all of its employees employed at the site of work. and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workers Compensation Insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. Workers Compensation coverage shall meet Missouri statutory limits. Employers Liability limits shall be \$500,000.00 each employee, \$500,000.00 each accident, and \$500,000.00 policy limit. In case any class of employees engaged in hazardous work under this Contract at the site of the work is not protected under the Workers Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide Employers Liability Insurance for the protection of their employees not otherwise protected.
- B. Commercial General Liability Insurance -** The Contractor shall take out and maintain during the life of this contract, such commercial general liability insurance as shall protect it and any subcontractor performing work covered by this contract, from claims for damages for personal injury including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by themselves or for any subcontractor or by anyone directly or indirectly employed by them. The amounts of insurance shall be not less than \$3,000,000.00 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death. If the Contract involves any underground/digging operations, the general liability certificate shall include X, C, and U (Explosion, Collapse, and Underground) coverage. If providing Commercial General Liability Insurance, then the Proof of Coverage of Insurance shall also be included.
- C.** Contractor may satisfy the minimum liability limits required for Commercial General Liability or Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum per occurrence limit of liability under the umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "Each Occurrence" limit for either Commercial General Liability or Business Auto Liability. Contractor agrees to endorse the County as an Additional Insured on the umbrella or Excess Liability, unless the Certificate of Insurance state the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.

- D. Business Automobile Liability** – The Contractor shall maintain during the life of this contract, automobile liability insurance in the amount of not less than \$3,000,000.00 combined single limit for any one occurrence, covering both bodily injury, including accidental death, and property damage, to protect themselves from any and all claims arising from the use of the Contractor’s own automobiles, teams and trucks; hired automobiles, teams and trucks; non-owned and both on and off the site of work.
- E. Subcontractors:** Contractor shall cause each Subcontractor to purchase and maintain insurance of the types and amounts specified herein. Limits of such coverage may be reduced only upon written agreement of County. Contractor shall provide to County copies of certificates of insurance evidencing coverage for each Subcontractor. Subcontractors’ commercial general liability and business automobile liability insurance shall name County as Additional Insured and have the Waiver of Subrogation endorsements added.
- F. Proof of Carriage of Insurance** - The Contractor shall furnish the County with Certificate(s) of Insurance which name the County as additional insured in an amount as required in this contract, contain a description of the project or work to be performed and provided for Commercial General Liability, Business Auto Liability, and Umbrella or Excess Liability (not on Workers Compensation). The Certificate of Insurance shall provide that there will be no cancellation, non-renewal or reduction of coverage without 30 days prior written notice to the Owner. In addition, such insurance shall be on an occurrence basis and shall remain in effect until such time as the County has made final acceptance of the services provided.
- G. INDEMNITY AGREEMENT:** To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney’s fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with providing these services. This provision does not, however, require contractor to indemnify, hold harmless, or defend the County of Boone from its own negligence.
- H.** Failure to maintain the required insurance in force may be cause for contract termination. In the event the Agency/Service fails to maintain and keep in force the required insurance or to obtain coverage from its subcontractors, the County shall have the right to cancel and terminate the contract without notice.

**8.00 Sales/Use Tax Exemption:** County will provide the Contractor with a completed Missouri Project Exemption and Missouri Tax Exemption letter for Boone County, Missouri and the Contractor shall be responsible for furnishing the exemption certificate and tax exemption letter to all authorized subcontractors and suppliers providing materials incorporated in the work. All invoices issued for purchases for such materials, supplies and taxable rentals shall be in the name of Boone County and contain the project number assigned by Boone County for the contract awarded. It shall be the responsibility of the Contractor to insure that no sales or use taxes are included in the invoices and that the County pays no sales/use taxes from which it is exempt. The Contractor shall be responsible for obtaining revised exemption certificates and revised expiration dates if the work extends beyond the estimated project completion date or a certificate expiration date. The Contractor shall also be responsible for retaining a copy of the project exemption certificate for a period of five years and for compliance with all other terms



and conditions of section 144.062 RSMo. Not otherwise herein specified. The Contractor agrees not to use or permit others to use the project exemption certificate for taxable purchases of materials or rentals and supplies not directly incorporated into or used in the work to which it applies and agrees to indemnify and hold the County harmless from all losses, expenses and costs including litigation expenses and attorney fees resulting from the unauthorized use of such project exemption certificates.

**9.00 Warranty & Guarantee** - Contractor warrants and guarantees to Owner that all work will be in accordance with the Contract Documents and will not be defective. All materials provided by the Contractor shall be new material of high quality which shall give long life and reliable operation. The workmanship shall be of high quality in every detail. Prompt notice of all defects shall be given to Contractor. All defective work, whether or not in place, may be rejected, corrected, or accepted as follows:

Correction or Removal of Defective Work- If required by Owner, Contractor shall promptly, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or if the Work has been rejected by County Department Designee, remove it from the site and replace it with non-defective Work. Contractor shall bear all direct, indirect, and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals made necessary thereby).

One Year Correction Period- If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, either correct such defective Work, or if it has been rejected by Owner, remove it from the site and replace it with non-defective Work. If Contractor does not promptly comply with the terms of such instructions or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work removed and replaced and all direct, indirect, and consequential costs of removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals) will be paid by the Contractor. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications or by Written Amendment.

**10.00 Prevailing Wage:** Contractor agrees that it will pay not less than the prevailing hourly rate of wages to all workmen performing work under the Contract in accordance with the prevailing wage determination issued by the Division of Labor Standards of the Department of Labor and Industrial Relations for the State of Missouri and as maintained on file with the Boone County Purchasing Department. The Contractor shall comply with all requirements of the prevailing wage law of Missouri, Revised Statutes of Missouri, Sections 290.210 to 290.340, including the latest amendments thereto. The prevailing wage law does not prohibit payment of more than the prevailing rate of wages nor does it limit the hours of work which may be performed by any worker in any particular period of time. The Contractor further agrees that it shall forfeit as a penalty to the County of Boone the sum of \$100.00 for each workman employed for each calendar day or portion thereof such workman is paid less than the stipulated rates set forth in the prevailing wage determination for the project for any work done under this contract by the Contractor pursuant to the provisions of Section 290.250 RSMo. The Contractor further agrees that he will abide by all provisions of the prevailing wage law as set forth in Chapter 290 RSMo and rules and regulations issued thereunder and that any penalties assessed may be withheld from sums due to the Contractor by the Owner.

The Contractor and all Subcontractors shall be required to submit to the designated representative of the County using department, certified copies of labor payrolls and statements of compliance (Form WH-347)

for each week that work is in progress. If work is temporarily suspended, the last payroll shall be marked appropriately to note that it will be the last payroll until work is resumed.

Contractor shall be responsible for the submittal of payrolls and certifications for all subcontractors. Contractor shall keep an accurate record showing the names, occupations, and crafts of all workers employed, together with the number of hours worked by each worker and the actual wages paid to each worker. At all reasonable hours, such records shall be open to inspection by the representatives of Industrial Commission of Missouri and the County. The payroll records shall not be destroyed or removed from the State for at least one year after completion of the work.

The County will check payrolls, with the following checks being made to insure proper labor compliance:

- a. The employee's full name as shown on his/her social security card, his address and Employee I.D. number shall be entered on each payroll.
- b. Check the payroll for correct employee classification.
- c. Check payroll for correct hourly wage and, if applicable, correct overtime hourly rate.
- d. Check the daily and weekly hours worked in each classification including actual overtime hours worked (not adjusted hours).
- e. All deductions are shown in the net wage shown. The Form WH-437 is to be used if fringe benefits are paid into established programs. However, if fringe benefits are paid in cash to the employee, the amount shall be indicated on the payroll.
- f. All checking by the County will be made in red pencil and initialed by the checker.
- g. Final payroll will be marked "Final" or "last Payroll".
- h. A record of all payrolls will be maintained by the County.

Throughout the life of the Contract, a copy of the wage determination and the rules promulgated by the Industrial Commission of Missouri shall be displayed in at least one conspicuous place on the project under a heading NOTICE with the heading in letters at least one inch high.

After completion of the work and before final payment can be made under this contract, the Contractor must file with the County an affidavit stating that they have fully complied with the provisions and requirements of the prevailing wage law of Missouri, Sections 290.210 to 290.340 RSMo. The prevailing wage rate determination made by the Industrial Commission of Missouri is reproduced verbatim and is applicable to this contract whenever Boone County provides to Contractor a project which is determined to be applicable to prevailing wage law

**11.00 EXTRA AND/OR ADDITIONAL WORK AND CHANGES:** If any extra and/or additional work is to be done or any change in the plans and specifications is deemed necessary, the County may issue to the Contractor a written change order directing that such extra and/or additional work be done or that such change be made, and the Contract shall be modified accordingly. Compensation to the Contractor will be calculated as an addition to or deduction from the Contract price, based upon such written terms as may be established by the owner, either (a) by an acceptable lump sum proposal of the Contractor, (b) on a cost-plus limited basis not to exceed a specified limit, or (c) on basis of bid or mutually agreed upon unit prices. In the event that none of the foregoing methods are agreed upon with the Contractor, the County may perform the work with its own forces or under separate contract with another contractor.

**12.00 DISCHARGE OF EMPLOYEES:** Any employee of the Contractor who is stationed at the site of the work and should prove to be quarrelsome, dishonest, incompetent or inexperienced, or should not work for the good of the job shall, upon written notice from the County, be removed by the Contractor and replaced by an employee with proper qualifications.

**13.00 SUBCONTRACTORS, SUPPLIERS AND OTHERS-** Contractor shall not employ any Subcontractor, Supplier, or other person or organization (including those acceptable to Owner as indicated below), whether initially or as a substitute, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other person or organization to furnish or perform any of the Work against whom the Contractor has a reasonable objection.

If the Owner requires identity of certain Subcontractors, Suppliers, or other persons or organizations (including those who are to furnish the principal items of material and equipment) to be submitted to Owner in advance of the specified date prior to the Effective Date of the Agreement for acceptance by Owner and if Contractor has submitted a list thereof in accordance with the project Specifications, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the Contract Documents) of any such Subcontractor, Supplier, or other person or organization so identified may be revoked on the basis of reasonable objection after due investigation, in which case Contractor shall submit an acceptable substitute, the Contract Price will be increased by the difference in the cost occasioned by such substitution and an appropriate Change Order will be issued or Written Amendment signed. No acceptance by Owner of any such Subcontractor, Supplier, or other person or organization shall constitute a waiver of any right of Owner to reject defective Work.

**14.00 ACCIDENT PREVENTION:** Precaution shall be exercised at all times for the protection of persons (including employees) and property. The safety provisions of applicable laws, building and construction codes shall be observed. Machinery, equipment, and all hazards shall be guarded or eliminated in accordance with the safety provisions of the Manual of Accident Prevention in Construction, 8th Edition, 1999, published by the Associated General Contractors of America, to the extent that such provisions are not in contravention of applicable laws. Current standards of the Occupational Safety and Health Act shall be applied, as well as the requirements contained within the current MUTCD.

**15.00 LEGAL REQUIREMENTS:** The Contractor shall do all work in such manner as to comply with all County ordinances, and laws of the County, State, and Nation as apply to the work herein outlined. The Contractor shall also obtain all necessary licenses and permits and keep necessary records as required.

**16.00 EQUAL OPPORTUNITY:** The County of Boone is an equal opportunity affirmative action employer, pursuant to federal and state law, and all respondents submitting bids shall be considered to be EEO/AA employers in compliance with federal and state laws, unless otherwise stipulated by the bidders herein.

The Contractor agrees that he will comply with all federal and state laws and regulations and local ordinances and that he will comply and cause each of his subcontractors, and directives pertaining to nondiscrimination against any person on the grounds of race, color, religion, creed, sex, age, ancestry, or national origin in connection with this Contract, including procurement of materials and lease of equipment; therefore, in accordance with the special provisions on that subject attached hereto, incorporated in and made a part of the Contract.

**17.00 DOMESTIC PURCHASING POLICY:** Contractors are encouraged to select and use materials manufactured, assembled, or produced in the United States in the performance of this contract whenever the quality and price are comparable with other goods. By submission of this bid, the vendor certifies that they are in compliance with section 34.353 and, if applicable, section 34.359 ("Missouri Domestic Products Procurement Act") of the Revised Statutes of Missouri, 1987.

**18.00 TRANSIENT EMPLOYERS:** Every transient employer, as defined in Section 285.230 RSMo, must post in a prominent and easily accessible place at the work site a clearly legible copy of the following: (1) the notice of registration for employer withholding issued to such transient employer by the director of revenue; (2) proof of coverage for workers' compensation insurance or self-insurance signed by the transient employer and verified by the department of revenue through the records of the division of workers' compensation; and (3) the notice of registration for unemployment insurance issued to such transient employer by the division of employment security. Any transient employer failing to comply with these requirements shall, under Section 285.234 RSMo, be liable for a penalty of five hundred dollars per day until the notices required by this section are posted as required by law.

**19.00 PROTECTION OF WORK:** The Contractor shall take all necessary steps to protect his own workers, the utility personnel, and the public from unnecessary danger or hazard during the prosecution of this work. Danger signs, warning signs, flares, lanterns, railings, barriers, sheeting, shoring, etc, shall be erected to prevent accidents from construction, falling objects, rotating machinery, electric lines and other conditions which might prevent unusual hazard.

**20.00 OVERHEAD LINE PROTECTION:** The Contractor is aware of the provisions of the Overhead Power Line Safety Act, 319.075 to 319.090 RSMo, and agrees to comply with the provisions thereof. Contractor understands that it is their duty to notify any utility operating high voltage overhead lines and make appropriate arrangements with said utility if the performance of contract would cause any activity within ten feet of any high voltage overhead line. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with any claims arising under the Overhead Power Line Safety Act. Contractor expressly waives any action for Contribution against the County on behalf of the Contractor, any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, and agrees to provide a copy of this waiver to any party affected by this provision.

**21.00 OSHA PROGRAM REQUIREMENTS:** The Contractor is familiar with the requirements of 292.675 RSMo. The Contractor shall provide a ten-hour Occupational Safety and Health Administration (OSHA) construction safety program for their on-site employees, subcontractors, or others acting on behalf of Contractor on-site which meets the requirements of 292.675 RSMo.

The Contractor and each subcontractor shall keep accurate records of those employees who are working on-site and a record of each such employee's completion of the OSHA program, and certify compliance by affidavit at the conclusion of the project.

The Contractor shall forfeit as a penalty to the County the sum of Two Thousand Five Hundred Dollars (\$2,500.00) plus One Hundred Dollars (\$100.00) for each employee employed by the Contractor or subcontractor, for each calendar day, or portion thereof, such employee is found to be employed in violation of 292.675 RSMo. Said amounts shall be withheld from all sums and amounts due under this provision when making payments to the Contractor.

**22.00 PAYMENT:** This will be a lump sum payment contract upon acceptance by Boone County. Contractor must submit an invoice and charges must only include prices listed in the vendor's bid response. No additional fees or taxes shall be included as additional charges. The County's purchase order must appear on the invoice. The County agrees to pay the invoice within thirty (30) days from receipt of a correct invoice and all other required documents.

**23.00 INVOICES:** Invoices should be submitted to Boone County Joint Communications, Attn: Pat Schreiner for payment 30 days after receipt of a correct and valid invoice. The billing address is Boone County Joint Communications, 17 N 7th Street, Suite A, Columbia, MO 65201.

**24.00 Bid Clarification:** Any questions or clarifications concerning bid documents should be addressed in writing, PRIOR TO BID OPENING, to Melinda Bobbitt, Director of Purchasing, 613 E. Ash Street, Room 110, Columbia, Missouri 65201. Phone: (573) 886-4391 Fax: (573) 886-4390 or Email: [mbobbitt@boonecountymo.org](mailto:mbobbitt@boonecountymo.org).

### ***3. Response Presentation and Review***

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- 3.1. **RESPONSE CONTENT** – In order to enable direct comparison of competing Responses, Bidder must submit Response in strict conformity to the requirements stated herein. Failure to adhere to all requirements may result in Bidder’s Response being disqualified as non-responsive. All Responses must be submitted using the provided Response Sheet. Every question must be answered and if not applicable, the section must contain “N/A”. Manufacturer’s published specifications for the items requested shall be included with the response.
- 3.2. **SUBMITTAL OF RESPONSES** – Responses MUST be received by the date and time notes on the title page under “Bid Submission Information and Deadline”. NO EXCEPTIONS. The County is not responsible for late or incorrect deliveries from the US Postal Service or any other mail carrier.
- 3.3. **Advice of Award** – If you wish to be advised of the outcome of this Bid, the results may be viewed on the County’s web page at [www.showmeboone.com](http://www.showmeboone.com).
- 3.4. **BID OPENING** – On the date and time and at the location specified on the title page, all Responses will be opened in public. Brief summary information from each will be read aloud, and any person present will be allowed, under supervision, to scan any Response. In the event only one bid is received by the date and time of the bid opening, County reserves the right to not open the bid and extend the Closing Date for the purpose of inviting bid responses from more vendors in the interest of establishing competition.
- 3.5. **Removal from Vendor Database** – If any prospective Bidder currently in our Vendor Database to whom the Bid was sent elects not to submit a Response and fails to reply in writing stating reason for not bidding, that Bidder’s name may be removed from our database. Other reasons for removal include unwillingness or inability to show financial responsibility, reported poor performance, unsatisfactory service, or repeated inability to meet delivery requirements.
- 3.6. **RESPONSE CLARIFICATION** – The County reserves the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.
- 3.7. **Rejection or Correction of Responses** – The County reserves the right to reject any or all Responses. Minor irregularities or informalities in any Response which are immaterial or inconsequential in nature, and are neither affected by law nor at substantial variance with Bid conditions, may be waived at our discretion whenever it is determined to be in the County’s best interest.
- 3.8. **EVALUATION PROCESS** – The County’s sole purpose in the evaluation process is to determine from among the Responses received which one is best suited to meet the County’s needs at the lowest possible cost. Any final analysis or weighted point score does not imply that one Bidder is superior to another, but simply that in our judgment the Contract selected appears to offer the best overall solution for our current and anticipated needs at the lowest possible cost.
- 3.9. **Method of Evaluation** – The County will evaluate submitted Responses in relation to all aspects of this Bid.
- 3.10. **Acceptability** – The County reserves the sole right to determine whether goods and/or services offered are acceptable for County use.
- 3.11. **Endurance of Pricing** – Bidder’s pricing must be held until contract execution or 60 days, whichever comes first.

4. Response Form

Company Name: \_\_\_\_\_
Address: \_\_\_\_\_
City/Zip: \_\_\_\_\_
Phone Number: \_\_\_\_\_
E-Mail: \_\_\_\_\_
Fax Number: \_\_\_\_\_

Federal Tax I.D. \_\_\_\_\_
( ) Corporation
( ) Partnership - Name \_\_\_\_\_
( ) Individual/Proprietorship - Individual Name \_\_\_\_\_
( ) Other (Specify) \_\_\_\_\_

4.00 PRICING

4.01. Radio Tower Assembly and Erection at the ECC Site per the requirements stated herein.

\_\_\_\_\_ DOLLARS and \_\_\_\_\_ CENTS
(Quoted cost in print)
\$/LUMP SUM

4.02. Work will begin on project \_\_\_\_\_ days after receipt of Notice to Proceed.

4.03 Work will be completed \_\_\_\_\_ days after receipt of Notice to Proceed.

4.04. Subcontracting: If Vendor proposes to use subcontractors for this work, list the names of the firms and the work to be assigned in spaces below.

Table with 2 columns: Subcontractor Name/Address, Work Assigned. Includes two rows of blank lines for entry.

4.05. The undersigned offers to furnish and deliver the articles or services as specified at the prices and terms stated and in strict accordance with all requirements contained in the Request for Bid which have been read and understood, and all of which are made part of this order. By submission of this bid, the vendor certifies that they are in compliance with Section 34.353 and, if applicable, Section 34.359 (Missouri Domestic Products Procurement Act) of the Revised Statutes of Missouri.

Authorized Representative (Sign By Hand): \_\_\_\_\_ Date: \_\_\_\_\_

Print Name and Title of Authorized Representative: \_\_\_\_\_

## STATEMENT OF BIDDER'S QUALIFICATIONS

Each bidder for the work included in the specifications and plans and the Contract Documents shall submit with their bid the data requested in the following schedule of information. This data must be included in and made a part of each bid document and be contained in the sealed envelope. Failure to comply with this instruction may be regarded as justification for rejecting the Contractor's proposal.

1. Name of Bidder: \_\_\_\_\_
2. Business Address: \_\_\_\_\_
3. When Organized: \_\_\_\_\_
4. When Incorporated: \_\_\_\_\_ 5. List federal tax identification number: \_\_\_\_\_  
If not incorporated, state type of business (sole proprietor, partnership, or other) \_\_\_\_\_
6. Number of years engaged in business under present firm name: \_\_\_\_\_
7. If you have done business under a different name, please give name and business location under that name: \_\_\_\_\_
8. Percent of work done by own staff: \_\_\_\_\_
9. Have you ever failed to complete any work awarded to your company? If so, where and why? \_\_\_\_\_
10. Have you ever defaulted on a contract? \_\_\_\_\_ If so, give \_\_\_\_\_
11. List of contracts completed within the last three years for work similar in scope to that described in this bid, including value of each. \_\_\_\_\_
12. List of projects currently in progress: \_\_\_\_\_

**\* Attach additional sheets as necessary \***





**Boone County Purchasing**  
613 E. Ash, Room 110  
Columbia, MO 65201

### ***Standard Terms and Conditions***

Melinda Bobbitt, CPPO, CPPB, Director of Purchasing  
Phone: (573) 886-4391 – Fax: (573) 886-4390

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1. Contractor shall comply with all applicable federal, state, and local laws and failure to do so, in County's sole discretion, shall give County the right to terminate this Contract.
2. Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the Boone County Department identified in the Request for Bid and/or Proposal.
3. The Boone County Commission has the right to accept or reject any part or parts of all bids, to waive technicalities, and to accept the offer the County Commission considers the most advantageous to the County. Boone County reserves the right to award this bid on an item-by-item basis, or an "all or none" basis, whichever is in the best interest of the County.
4. Bidders must use the bid forms provided for the purpose of submitting bids, must return the bid and bid sheets comprised in this bid, give the unit price, extended totals, and sign the bid. The Purchasing Director reserves the right, when only one bid has been received by the bid closing date, to delay the opening of bids to another date and time in order to revise specifications and/or establish further competition for the commodity or service required. The one (1) bid received will be retained unopened until the new Closing date, or at request of bidder, returned unopened for re-submittal at the new date and time of bid closing.
5. When products or materials of any particular producer or manufacturer are mentioned in our specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.
6. Do not include Federal Excise Tax or Sales and Use Taxes in bid process, as law exempts the County from them.
7. The delivery date shall be stated in definite terms, as it will be taken into consideration in awarding the bid.
8. The County Commission reserves the right to cancel all or any part of orders if delivery is not made or work is not started as guaranteed. In case of delay, the Contractor must notify the Purchasing Department.
9. In case of default by the Contractor, the County of Boone will procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby.
10. Failure to deliver as guaranteed may disqualify Bidder from future bidding.
11. Prices must be as stated in units of quantity specified, and must be firm. Bids qualified by escalator clauses may not be considered unless specified in the bid specifications.

12. No bid transmitted by fax machine or e-mail will be accepted.
13. The County of Boone, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is accepted by the County.
14. The County reserves the right to award to one or multiple respondents. The County also reserves the right to not award any item or group of items if the services can be obtained from a state or other governmental entities contract under more favorable terms.
15. The County, from time to time, uses federal grant funds for the procurement of goods and services. Accordingly, the provider of goods and/or services shall comply with federal laws, rules and regulations applicable to the funds used by the County for said procurement, and contract clauses required by the federal government in such circumstances are incorporated herein by reference. These clauses can generally be found in the Federal Transit Administration's Best Practices Procurement Manual – Appendix A. Any questions regarding the applicability of federal clauses to a particular bid should be directed to the Purchasing Department prior to bid opening.
16. In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.
17. Should an audit of Contractor's invoices during the term of the Agreement, and any renewals thereof, indicate that the County has remitted payment on invoices that constitute an over-charging to the County above the pricing terms agreed to herein, the Contractor shall issue a refund check to the County for any over-charges within 30-days of being notified of the same.
18. **For all titled vehicles and equipment the dealer must use the actual delivery date to the County on all transfer documents** including the Certificate of Origin (COO,) Manufacturer's Statement of Origin (MSO,) Bill of Sale (BOS,) and Application for Title.
19. **Equipment and serial and model numbers** - The contractor is strongly encouraged to include equipment serial and model numbers for all amounts invoiced to the County. If equipment serial and model numbers are not provided on the face of the invoice, such information may be required by the County before issuing payment.

## INSTRUCTIONS FOR COMPLIANCE WITH HOUSE BILL 1549

House Bill 1549 addresses the Department of Homeland Security's and the Social Security Administration's E-Verify Program (Employment Eligibility Verification Program) that requires the County to verify "lawful presence" of individuals when we contract for work/service; verify that contractor has programs to verify lawful presence of their employees when contracts exceed \$5,000; and a requirement for OSHA safety training for public works projects.

The County is required to obtain certification that the bidder awarded the attached contract participates in a federal work authorization program. To obtain additional information on the Department of Homeland Security's E-Verify program, go to:

<http://www.uscis.gov/portal/site/uscis/menuitem.eb1d4c2a3e5b9ac89243c6a7543f6d1a/?vgnextoid=75bce2e261405110VgnVCM1000004718190aRCRD&vgnnextchannel=75bce2e261405110VgnVCM1000004718190aRCRD>

Please complete and return form *Work Authorization Certification Pursuant to 285.530 RSMo* if your contract amount is in excess of \$5,000. **Attach to this form the first and last page of the *E-Verify Memorandum of Understanding* that you completed when enrolling.**





**AFFIDAVIT**  
**(Only Required for Individual Bidder Certification Option #2)**

State of Missouri                    )  
  )SS.  
County of \_\_\_\_\_            )

I, the undersigned, being at least eighteen years of age, swear upon my oath that I am either a United States citizen or am classified by the United States government as being lawfully admitted for permanent residence.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Social Security Number  
or Other Federal I.D. Number

\_\_\_\_\_  
Printed Name

On the date above written \_\_\_\_\_ appeared before me and swore that the facts contained in the foregoing affidavit are true according to his/her best knowledge, information and belief.

\_\_\_\_\_  
Notary Public

My Commission Expires:

**(Please complete and return with Bid)**

Certification Regarding  
Debarment, Suspension, Ineligibility and Voluntary Exclusion  
Lower Tier Covered Transactions

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98 Section 98.510, Participants' responsibilities. The regulations were published as Part VII of the May 26, 1988, Federal Register (pages 19160-19211).

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS FOR CERTIFICATION)

- (1) The prospective recipient of Federal assistance funds certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective recipient of Federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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Name and Title of Authorized Representative

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Signature

---

Date

**ANTI-COLLUSION STATEMENT**

STATE OF MISSOURI

COUNTY OF \_\_\_\_\_

\_\_\_\_\_, being first duly sworn, deposes and

says that he is \_\_\_\_\_

(Title of Person Signing)

of \_\_\_\_\_

(Name of Bidder)

that all statements made and facts set out in the proposal for the above project are true and correct; and the bidder (person, firm, association, or corporation making said bid) has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with said bid or any contract which may result from its acceptance.

Affiant further certifies that bidder is not financially interested in, or financially affiliated with, any other bidder for the above project

By \_\_\_\_\_ By \_\_\_\_

By \_\_\_\_\_

Sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_



**SIGNATURE AND IDENTITY OF BIDDER**

The undersigned states that the correct LEGAL NAME and ADDRESS of (1) the individual Bidder, (2) each partner or joint venture (whether individuals or corporations, and whether doing business under fictitious name), or (3) the corporation (with the state in which it is incorporated) are shown below; that (if not signing with the intention of binding himself to become the responsible and sole Contractor) he is the agent of, and duly authorized in writing to sign for the Bidder or Bidders; and that he is signing and executing this (as indicated in the proper spaces below) as the proposal of a:

sole individual                       partnership                       joint venture  
 corporation, incorporated under laws of the state of \_\_\_\_\_

Dated \_\_\_\_\_, 20 \_\_\_\_\_

Name of individual, all partners, or joint venturers:

Address of each:

_____	_____
_____	_____
_____	_____
_____	_____

Address of principal place of business in doing business under the name of:

\_\_\_\_\_  
(If using a fictitious name, show this name above in addition to legal names.)

\_\_\_\_\_  
(If a corporation – show its name above)

ATTEST:

\_\_\_\_\_  
(Secretary)

\_\_\_\_\_  
(Title)

NOTE: If the Bidder is doing business under a FICTITIOUS NAME, the Proposal shall be executed in the legal name of the individual, partners, joint venturers, or corporation, with the legal address shown, and the REGISTRATION OF FICTITIOUS NAME filed with the Secretary of State, as required by Section 417.200 to 417.230, RS Mo. shall be attached. If the Bidder is a CORPORATION NOT ORGANIZED UNDER THE LAWS OF MISSOURI, it shall procure a CERTIFICATE OF AUTHORITY

TO DO BUSINESS IN MISSOURI, as required by Section 351.570 and following, RS Mo. A CERTIFIED COPY of such Registration of Fictitious Name or Certificate of Authority to do Business in Missouri shall be filed with the Engineer.

**BIDDER'S ACKNOWLEDGMENT**

(Complete and fill out all parts applicable, and strike out all parts not applicable.)

State of \_\_\_\_\_ County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

before me appeared \_\_\_\_\_ to me personally known, who, being by me first duly sworn, did say that he executed the foregoing Proposal with full knowledge and understanding of all its terms and provisions and of the plans and specifications; that the correct legal name and address of the Bidder (including those of all partners of joint ventures if fully and correctly set out above; that all statements made therein by or for the Bidder are true; and (if a sole individual) acknowledged that he executed the same as his free act and deed.

(if a partnership or joint venture) acknowledged that his executed same, with written authority from, and as the free act and deed of, all said partners or joint ventures.

(if a corporation) that he is the \_\_\_\_\_  
President or other agent

of \_\_\_\_\_; that the above Proposal was signed and sealed in behalf of said corporation by authority of its board of directors; and he acknowledged said proposal to be the free act and deed of said corporation.

Witness my hand and seal at, \_\_\_\_\_ the day and year first above written. (SEAL)

\_\_\_\_\_  
Notary Public

My Commission expires \_\_\_\_\_, 20 \_\_\_\_\_.

# Missouri Division of Labor Standards

WAGE AND HOUR SECTION



JEREMIAH W. (JAY) NIXON, Governor

## Annual Wage Order No. 22

Section 010

**BOONE COUNTY**

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by

John E. Lindsey, Director  
Division of Labor Standards

This Is A True And Accurate Copy Which Was Filed With The Secretary of State: **March 10, 2015**

Last Date Objections May Be Filed: **April 9, 2015**

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	** Date of Increase	*	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
Asbestos Worker (H & F) Insulator			\$32.06	55	60	\$20.71
Boilermaker	8/15		\$34.76	57	7	\$28.00
Bricklayer and Stone Mason	6/15		\$28.95	59	7	\$16.25
Carpenter	6/15		\$24.75	60	15	\$15.55
Cement Mason	6/15		\$26.83	9	3	\$11.95
Communication Technician	6/15		\$31.35	28	7	\$12.70 + 13%
Electrician (Inside Wireman)	6/15		\$31.35	28	7	\$12.70 + 13%
Electrician (Outside-Line Construction/Lineman)	9/15		\$42.52	43	45	\$5.00 + 36.5%
Lineman Operator	9/15		\$36.70	43	45	\$5.00 + 36.5%
Groundman	9/15		\$28.38	43	45	\$5.00 + 36.5%
Elevator Constructor		a	\$44.37	26	54	\$28.385
Glazier	10/15		\$26.57	122	76	\$11.33
Ironworker	8/15		\$28.41	11	8	\$24.04
Laborer (Building):						
General			\$21.71	42	44	\$12.84
First Semi-Skilled			\$23.71	42	44	\$12.84
Second Semi-Skilled			\$22.71	42	44	\$12.84
Lather			USE CARPENTER RATE			
Linoleum Layer and Cutter	6/15		\$24.63	60	15	\$15.55
Marble Mason	10/15		\$21.66	124	74	\$12.68
Marble Finisher	10/15		\$14.14	124	74	\$9.08
Millwright	6/15		\$25.75	60	15	\$15.55
Operating Engineer						
Group I	6/15		\$28.66	86	66	\$24.01
Group II	6/15		\$28.66	86	66	\$24.01
Group III	6/15		\$27.41	86	66	\$24.01
Group III-A	6/15		\$28.66	86	66	\$24.01
Group IV	6/15		\$26.43	86	66	\$24.01
Group V	6/15		\$29.36	86	66	\$24.01
Painter	6/15		\$22.94	18	7	\$11.33
Pile Driver	6/15		\$25.75	60	15	\$15.55
Pipe Fitter	7/15	b	\$37.00	91	69	\$26.68
Plasterer	6/15		\$25.40	94	5	\$12.00
Plumber	7/15	b	\$37.00	91	69	\$26.68
Roofer \ Waterproofer	10/15		\$29.30	12	4	\$14.87
Sheet Metal Worker	7/15		\$31.14	40	23	\$16.24
Sprinkler Fitter - Fire Protection	6/15		\$32.39	33	19	\$19.05
Terrazzo Worker			\$28.73	124	74	\$14.38
Terrazzo Finisher			\$18.68	124	74	\$14.38
Tile Setter	10/15		\$21.66	124	74	\$12.68
Tile Finisher	10/15		\$14.14	124	74	\$9.08
Traffic Control Service Driver			\$26.415	22	55	\$9.045
Truck Driver-Teamster						
Group I			\$25.30	101	5	\$10.70
Group II			\$25.95	101	5	\$10.70
Group III			\$25.45	101	5	\$10.70
Group IV			\$25.95	101	5	\$10.70

Fringe Benefit Percentage is of the Basic Hourly Rate

\*\*Annual Incremental Increase



**REPLACEMENT PAGE  
BOONE COUNTY  
BUILDING CONSTRUCTION OVERTIME SCHEDULE**

**FED:** Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

**NO. 9:** Means the regular workday starting time of 8:00 a.m. (and resulting quitting time of 4:30 p.m.) may be moved forward to 6:00 a.m. or delayed one hour to 9:00 a.m. All work performed in excess of the regular work day and on Saturday shall be compensated at one and one-half (1½) times the regular pay. In the event time is lost during the work week due to weather conditions, the Employer may schedule work on the following Saturday at straight time. All work accomplished on Sunday and holidays shall be compensated for at double the regular rate of wages. The work week shall be Monday through Friday, except for midweek holidays.

**NO. 11:** Means eight (8) hours shall constitute a day's work, with the starting time to be established between 6:00 a.m. and 8:00 a.m. from Monday to Friday. Time and one-half (1½) shall be paid for first two (2) hours of overtime Monday through Friday and the first eight (8) hours on Saturday. All other overtime hours Monday through Saturday shall be paid at double (2) time rate. Double (2) time shall be paid for all time on Sunday and recognized holidays or the days observed in lieu of these holidays.

**NO. 12:** Means the work week shall commence on Monday at 12:01 a.m. and shall continue through the following Friday, inclusive of each week. All work performed by employees anywhere in excess of forty (40) hours in one (1) work week, shall be paid for at the rate of one and one-half (1½) times the regular hourly wage scale. All work performed within the regular working hours which shall consist of a ten (10) hour work day except in emergency situations. Overtime work and Saturday work shall be paid at one and one-half (1½) times the regular hourly rate. Work on recognized holidays and Sundays shall be paid at two (2) times the regular hourly rate.

**NO. 18:** Means the regular work day shall be eight (8) hours. Working hours are from six (6) hours before Noon (12:00) to six (6) hours after Noon (12:00). The regular work week shall be forty (40) hours, beginning between 6:00 a.m. and 12:00 Noon on Monday and ending between 1:00 p.m. and 6:00 p.m. on Friday. Saturday will be paid at time and one-half (1½). Sunday and Holidays shall be paid at double (2) time. Saturday can be a make-up day if the weather has forced a day off, but only in the week of the day being lost. Any time before six (6) hours before Noon or six (6) hours after Noon will be paid at time and one-half (1½).

**NO. 22:** Means a regular work week of forty (40) hours will start on Monday and end on Friday. The regular work day shall be either eight (8) or ten (10) hours. If a crew is prevented from working forty (40) hours Monday through Friday, or any part thereof by reason of inclement weather, Saturday or any part thereof may be worked as a make-up day at the straight time rate. Employees who are part of a regular crew on a make-up day, notwithstanding the fact that they may not have been employed the entire week, shall work Saturday at the straight time rate. A workday is to begin between 6:00 a.m. and 9:00 a.m. However, the project starting time may be advanced or delayed if mutually agreed to by the interest parties. For all time worked on recognized holidays, or days observed as such, double (2) time shall be paid.

**NO. 26:** Means that the regular working day shall consist of eight (8) hours worked between 6:00 a.m., and 5:00 p.m., five (5) days per week, Monday to Friday, inclusive. Hours of work at each jobsite shall be those established by the general contractor and worked by the majority of trades. (The above working hours may be changed by mutual agreement). Work performed on Construction Work on Saturdays, Sundays and before and after the regular working day on Monday to Friday, inclusive, shall be classified as overtime, and paid for at double (2) the rate of single time. The employer may establish hours worked on a jobsite for a four (4) ten (10) hour day work week at straight time pay for construction work; the regular working day shall consist of ten (10) hours worked consecutively, between 6:00 a.m. and 6:00 p.m., four (4) days per week, Monday to Thursday, inclusive. Any work performed on Friday, Saturday, Sunday and holidays, and before and after the regular working day on Monday to Thursday where a four (4) ten (10) hour day workweek has been established, will be paid at two times (2) the single time rate of pay. The rate of pay for all work performed on holidays shall be at two times (2) the single time rate of pay.

**REPLACEMENT PAGE  
BOONE COUNTY  
BUILDING CONSTRUCTION OVERTIME SCHEDULE**

**NO. 28:** Means a regular workday shall consist of eight (8) hours between 7:00 a.m. and 5:30 p.m., with at least a thirty (30) minute period to be taken for lunch. Five (5) days a week, Monday through Friday inclusive, shall constitute a work week. The Employer has the option for a workday/workweek of four (4) ten (10) hour days (4-10's) provided:

- The project must be for a minimum of four (4) consecutive days.
- Starting time may be within one (1) hour either side of 8:00 a.m.
- Work week must begin on either a Monday or Tuesday: If a holiday falls within that week it shall be a consecutive work day. (Alternate: If a holiday falls in the middle of a week, then the regular eight (8) hour schedule may be implemented).
- Any time worked in excess of any ten (10) hour work day (in a 4-10 hour work week) shall be at the appropriate overtime rate.

All work outside of the regular working hours as provided, Monday through Saturday, shall be paid at one & one-half (1½) times the employee's regular rate of pay. All work performed from 12:00 a.m. Sunday through 8:00 a.m. Monday and recognized holidays shall be paid at double (2) the straight time hourly rate of pay. Should employees work in excess of twelve (12) consecutive hours they shall be paid double time (2X) for all time after twelve (12) hours. Shift work performed between the hours of 4:30 p.m. and 12:30 a.m. (second shift) shall receive eight (8) hours pay at the regular hourly rate of pay plus ten (10%) percent for seven and one-half (7½) hours work. Shift work performed between the hours of 12:30 a.m. and 8:00 a.m. (third shift) shall receive eight (8) hours pay at the regular hourly rate of pay plus fifteen (15%) percent for seven (7) hours work. A lunch period of thirty (30) minutes shall be allowed on each shift. All overtime work required after the completion of a regular shift shall be paid at one and one-half (1½) times the shift hourly rate.

**NO. 33:** Means the standard work day and week shall be eight (8) consecutive hours of work between the hours of 6:00 a.m. and 6:00 p.m., excluding the lunch period Monday through Friday, or shall conform to the practice on the job site. Four (4) days at ten (10) hours a day may be worked at straight time, Monday through Friday and need not be consecutive. All overtime, except for Sundays and holidays shall be at the rate of time and one-half (1½). Overtime worked on Sundays and holidays shall be at double (2) time.

**NO. 40:** Means the regular working week shall consist of five (5) consecutive (8) hour days' labor on the job beginning with Monday and ending with Friday of each week. Four (4) 10-hour days may constitute the regular work week. The regular working day shall consist of eight (8) hours labor on the job beginning as early as 6:00 a.m. and ending as late as 5:30 p.m. All full or part time labor performed during such hours shall be recognized as regular working hours and paid for at the regular hourly rate. All hours worked on Saturday and all hours worked in excess of eight (8) hours but not more than twelve (12) hours during the regular working week shall be paid for at time and one-half (1½) the regular hourly rate. All hours worked on Sundays and holidays and all hours worked in excess of twelve (12) hours during the regular working day shall be paid at two (2) times the regular hourly rate. In the event of rain, snow, cold or excessively windy weather on a regular working day, Saturday may be designated as a "make-up" day. Saturday may also be designated as a "make-up" day, for an employee who has missed a day of work for personal or other reasons. Pay for "make-up" days shall be at regular rates.

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**NO. 42:** Means eight (8) hours between the hours of 8:00 a.m. and 4:30 p.m. shall constitute a work day. The starting time may be advanced one (1) or two (2) hours. Employees shall have a lunch period of thirty (30) minutes. The Employer may provide a lunch period of one (1) hour, and in that event, the workday shall commence at 8:00 a.m. and end at 5:00 p.m. The workweek shall commence at 8:00 a.m. on Monday and shall end at 4:30 p.m. on Friday (or 5:00 p.m. on Friday if the Employer grants a lunch period of one (1) hour), or as adjusted by starting time change as stated above. All work performed before 8:00 a.m. and after 4:30 p.m. (or 5:00 p.m. where one (1) hour lunch is granted for lunch) or as adjusted by starting time change as stated above or on Saturday, except as herein provided, shall be compensated at one and one-half (1½) times the regular hourly rate of pay for the work performed. All work performed on Sunday and on recognized holidays shall be compensated at double (2) the regular hourly rate of pay for the work performed. When working a five 8-hour day schedule and an Employer is prevented from working forty (40) hours, Monday through Friday, or any part thereof by reason of inclement weather (rain or mud), Saturday or any part thereof may be worked as a make-up day at the straight time rate. The Employer shall have the option of working five eight (8) hour days or four ten (10) hour days Monday through Friday. If an Employer elects to work five (5) eight (8) hour days during any work week, hours worked more than eight (8) per day or forty (40) hours per week shall be paid at time and one-half (1½) the hourly rate Monday through Friday. If an Employer elects to work four (4) ten (10) hour days in any week, work performed more than ten (10) hours per day or forty (40) hours per week shall be paid at time and one-half (1½) the hourly rate Monday through Friday. If an Employer is working ten (10) hour days and loses a day due to inclement weather, they may work ten (10) hours Friday at straight time. All hours worked over the forty (40) hours Monday through Friday will be paid at time and one-half (1½) overtime rate. Overtime shall be computed at half-hour intervals. Shift Work: Two (2) or three (3) shifts shall be permitted, provided such shifts are scheduled for a minimum of three (3) consecutive days. The second shift shall begin at 4:30 p.m. and end at 12:30 a.m. with one-half (1/2) hour for lunch between 7:30 p.m. and 9:00 p.m. and shall received eighty (8) hours' pay. The third shift shall begin at 12:30 a.m. and end at 8:00 a.m. with one-half (1/2) hour for lunch between 3:30 a.m. and 5:00 a.m. and shall received (8) hour's; pay. There shall be at least one (1) foreman on each shift on jobs where more than one shift is employed, provided that there are two (2) or more employees on second and on the third shifts. All shifts shall arrange to interchange working hours at the end of each week. When three shifts are used, the applicable rate must be paid from Saturday at 8:00 a.m. until the following Monday at 8:00 a.m. When three shifts are employed, the second and third shifts shall contain at least one-half (1/2) as many employees as the first shift.

**NO. 43:** Eight (8) hours shall constitute a work day between the hours of 7:00 a.m. and 4:30 p.m. Forty (40) hours within five (5) days, Monday through Friday inclusive, shall constitute the work week. Work performed in the 9th and 10th hour, Monday through Friday, shall be paid at time and one-half (1½) the regular straight time rate of pay. Contractor has the option to pay two (2) hours per day at the time and one-half (1½) the regular straight time rate of pay between the hours of 6:00 a.m. and 5:30 p.m., Monday through Friday. Work performed outside the regularly scheduled working hours and on Saturdays, Sundays and recognized legal holidays, or days celebrated as such, shall be paid for at the rate of double (2) time.

**NO. 55:** Means the regular work day shall be eight (8) hours between 6:00 a.m. and 4:30 p.m. The first two (2) hours of work performed in excess of the eight (8) hour work day, Monday through Friday, and the first ten (10) hours of work on Saturday, shall be paid at one & one-half (1½) times the straight time rate. All work performed on Sunday, observed holidays and in excess of ten (10) hours a day, Monday through Saturday, shall be paid at double (2) the straight time rate.

**NO. 57:** Means eight (8) hours per day shall constitute a day's work and forty (40) hours per week, Monday through Friday, shall constitute a week's work. The regular starting time shall be 8:00 a.m. If a second or third shift is used, the regular starting time of the second shift shall be 4:30 p.m. and the regular starting period for the third shift shall be 12:30 a.m. These times may be adjusted by the employer. The day shift shall work a regular eight (8) hours shift as outlined above. Employees working a second shift shall receive an additional \$0.25 above the regular hourly rate and perform seven and one-half (7½) hours work for eight (8) hours pay. Third shift employees shall be paid an additional \$0.50 above the regular hourly rate and work seven (7) hours for eight (8) hours pay. When circumstances warrant, the Employer may change the regular workweek to four (4) ten-hour days at the regular time rate of pay. All time worked before and after the established workday of eight (8) hours, Monday through Friday, and all time worked on Saturday shall be paid at the rate of time and one-half (1½) except in cases where work is part of an employee's regular Friday shift. All time worked on Sunday and recognized holidays shall be paid at the double (2) time rate of pay except in cases where work is part of an employee's previous day's shift. For all overtime hours worked \$26.71 of the fringe benefits portion of the prevailing wage shall be paid at the same overtime rate at which the cash portion of the prevailing wage is to be paid. The remaining \$1.29 of the fringe benefit portion of the prevailing wage may be paid at straight time.



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**NO. 59:** Means that except as herein provided, eight (8) hours a day shall constitute a standard work day, and forty (40) hours per week shall constitute a week's work. All time worked outside of the standard eight (8) hour work day and on Saturday shall be classified as overtime and paid the rate of time and one-half (1½). All time worked on Sunday and holidays shall be classified as overtime and paid at the rate of double (2) time. The Employer has the option of working either five (5) eight hour days or four (4) ten hour days to constitute a normal forty (40) hour work week. When the four (4) ten-hour work week is in effect, the standard work day shall be consecutive ten (10) hour periods between the hours of 6:30 a.m. and 6:30 p.m. Forty (40) hours per week shall constitute a week's work, Monday through Thursday, inclusive. In the event the job is down for any reason beyond the Employer's control, then Friday and/or Saturday may, at the option of the Employer, be worked as a make-up day; straight time not to exceed ten (10) hours or forty (40) hours per week. When the five day eight (8) hour work week is in effect, forty (40) hours per week shall constitute a week's work, Monday through Friday, inclusive. In the event the job is down for any reason beyond the Employer's control, then Saturday may, at the option of the Employer, be worked as a make-up day; straight time not to exceed eight (8) hours or forty (40) hours per week. The regular starting time (and resulting quitting time) may be moved to 6:00 a.m. or delayed to 9:00 a.m. Make-up days shall not be utilized for days lost due to holidays.

**NO. 60:** Means the Employer shall have the option of working five 8-hour days or four 10-hour days Monday through Friday. If an Employer elects to work five 8-hour days during any work week, hours worked more than eight (8) per day or forty (40) per week shall be paid at time and one-half (1½) the hourly wage rate plus fringe benefits Monday through Friday. **SATURDAY MAKE-UP DAY:** If an Employer is prevented from working forty (40) hours, Monday through Friday, or any part thereof by reason of inclement weather (rain or mud), Saturday or any part thereof may be worked as a make-up day at the straight time rate. It is agreed by the parties that the make-up day is not to be used to make up time lost due to recognized holidays. If an Employer elects to work four 10-hour days, between the hours of 6:30 a.m. and 6:30 p.m. in any week, work performed more than ten (10) hours per day or forty (40) hours per week shall be paid at time and one half (1½) the hourly wage rate plus fringe benefits Monday through Friday. If an Employer is working 10-hour days and loses a day due to inclement weather, the Employer may work ten (10) hours on Friday at straight time. All hours worked over the forty (40) hours Monday through Friday will be paid at time and one-half (1½) the hourly wage rate plus fringe benefits. All Millwright work performed in excess of the regular work day and on Saturday shall be compensated for at time and one-half (1½) the regular Millwright hourly wage rate plus fringe benefits. The regular work day starting at 8:00 a.m. (and resulting quitting time of 4:30 p.m.) may be moved forward to 6:00 a.m. or delayed one (1) hour to 9:00 a.m. All work accomplished on Sundays and recognized holidays, or days observed as recognized holidays, shall be compensated for at double (2) the regular hourly rate of wages plus fringe benefits. **NOTE:** All overtime is computed on the hourly wage rate plus an amount equal to the fringe benefits.

**NO. 86:** The regular workday shall consist of eight (8) consecutive hours, exclusive of a thirty (30) minute lunch period, with pay at the straight time rate with all hours in excess of eight (8) hours in any one day to be paid at the applicable overtime rate at time and one-half (1½). The regular workday shall begin between the hours of 6:00 a.m. and 8:00 a.m. The Employer may have the option to schedule the work week from Monday through Thursday at ten (10) hours per day at the straight time rate of pay with all hours in excess of ten (10) hours in any one day to be paid at the applicable overtime rate at time and one-half (1½). If the Employer elects to work from Monday through Thursday and is stopped due to inclement weather, holiday or other conditions beyond the control of the Employer, they shall have the option to work Friday at the straight time rate of pay to complete the forty (40) hours for the workweek. All overtime work performed on Monday through Saturday shall be paid at time and one-half (1½) the hourly rate. Fringe benefits shall be paid at the one and one half the hourly rate. All work performed on Sundays and recognized holidays shall be paid at double (2) the hourly rate. Fringe benefits shall be paid at double the hourly rate. Shifts may be established when considered necessary by the Employer. Shift hours and rates will be as follows. If shifts are established, work on the First Shift will begin between 6:00 a.m. and 9:00 a.m. and consist of eight (8) hours of work plus one-half hour unpaid lunch. Hours worked during the first shift will be paid at the straight time rate of pay. The second shift shall start eight hours after the start of the first shift and consist of eight (8) hours of work plus one-half hour unpaid lunch. Work on the second shift will begin between 2:00 p.m. and 5:00 p.m. and be paid the straight time rate plus \$2.50 per hour. The third shift shall start eight hours after the start of the second shift and consist of eight (8) hours plus one-half hour unpaid lunch. Work on the third shift will begin between 10:00 p.m. and 1:00 a.m. and be paid the straight time rate plus \$3.50 per hour. The additional amounts that are to be paid are only applicable when working shifts. Shifts that begin on Saturday morning through those shifts which end on Sunday morning will be paid at time and one-half these rates. Shifts that begin on Sunday morning through those shifts which end on Monday morning will be paid at double time these rates.

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BUILDING CONSTRUCTION OVERTIME SCHEDULE**

**NO. 87:** Means eight (8) hours starting between 6:00 a.m. and 8:00 a.m. and ending between 2:30 p.m. and 4:30 p.m. at the Employers discretion shall constitute a day's work. Any work prior to 6:00 a.m. or after eight (8) hours shall be paid at the overtime rate. Five (5) days from Monday through Friday inclusive shall constitute a regular work week. All hours before and after these regular hours shall be considered overtime and shall be paid for at the rate of double (2) time. All work on Saturday and Sunday shall be paid at double (2) the prevailing scale of wages.

**NO. 91:** Means eight (8) hours shall constitute a day's work commencing at 7:00 a.m. and ending at 3:30 p.m., allowing one-half (½) hour for lunch. The option exists for the Employer to use a flexible starting time between the hours of 6:00 a.m. and 9:00 a.m. The regular workweek shall consist of forty (40) hours of five (5) workdays, Monday through Friday. The workweek may consist of four (4) ten (10) hour days from Monday through Thursday, with Friday as a make-up day. If the make-up day is a holiday, the employee shall be paid at the double (2) time rate. The employees shall be paid time and one-half (1½) for work performed on Saturdays, before the regular starting time or after the regular quitting time or over eight (8) hours per work day (unless working a 10-hour work day, then time and one-half (1½) is paid for work performed over ten (10) hours a day) or over forty (40) hours per work week. Work performed on Sundays and recognized holidays shall be paid at the double (2) time rate of pay. **SHIFT WORK:** When it is necessary for the project to operate in shifts, there will be three (3) eight (8) hour shifts commencing at 8:00 a.m. Shift work must continue for a period of not less than three (3) consecutive work days, two (2) days which must be regular work days (Monday through Friday). In the event the second or third shift of any regular work day shall fall into a Saturday or a holiday, such extension into a Saturday or holiday shall be considered as part of the previous workday and employees shall be paid at the regular shift rate. The first day shift shall work a regular eight (8) hour day at regular rates. The second shift shall be eight (8) hours regular time pay plus \$2.50 per hour premium for eight (8) hours work. Third shift will be for eight (8) hours regular time pay plus \$3.00 per hour premium for eight (8) hours work.

**NO. 94:** Means eight (8) hours shall constitute a day's work between the hours of 8:00 a.m. and 5:00 p.m. The regular workday starting time of 8:00 a.m. (and resulting quitting time of 4:30 p.m.) may be moved forward to 6:00 a.m. or delayed one (1) hour to 9:00 a.m. All work performed in excess of the regular work day and on Saturday shall be compensated at one and one-half (1½) times the regular pay. In the event time is lost during the work week due to weather conditions, the Employer may schedule work on the following Saturday at straight time. All work accomplished on Sunday and holidays shall be compensated at double the regular rate of wages.

**NO. 101:** Means that except as provided below, eight (8) hours a day shall constitute a standard work day, and forty (40) hours per week shall constitute a week's work, which shall begin on Monday and end on Friday. All time worked outside of the standard work day and on Saturday shall be classified as overtime and paid the rate of time and one-half (1½) (except as herein provided). All time worked on Sunday and recognized holidays shall be classified as overtime and paid at the rate of double (2) time. The regular starting time of 8:00 a.m. (and resulting quitting time of 4:30 p.m.) may be moved forward to 6:00 a.m. or delayed one (1) hour to 9:00 a.m. The Employer has the option of working either five (5) eight-hour days or four (4) ten-hour days to constitute a normal forty (40) hour work week. When a four (4) ten-hour day work week is in effect, the standard work day shall be consecutive ten (10) hour periods between the hours of 6:30 a.m. and 6:30 p.m. Forty (40) hours per week shall constitute a week's work Monday through Thursday, inclusive. In the event the job is down for any reason beyond the Employer's control, then Friday and/or Saturday may, at the option of the Employer, be worked as a make-up day; straight time not to exceed ten (10) hours per day or forty (40) hours per week. Starting time will be designated by the employer. When the five (5) day eight (8) hour work week is in effect, forty (40) hours per week shall constitute a week's work, Monday through Friday, inclusive. In the event the job is down for any reason beyond the Employer's control, then Saturday may, at the option of the Employer, be worked as a make-up day; straight time not to exceed eight (8) hours per day or forty (40) hours per week. Make-up days shall not be utilized for days lost due to holidays.

**NO. 122:** Means forty (40) hours between Monday and Friday shall constitute the normal work week. Work shall be scheduled between the hours of 6:00 a.m. and 6:30 p.m., with one-half hour for lunch. Work in excess of eight (8) hours per day and forty (40) hours per week, and on Saturdays, shall be paid at the rate of one and one-half times the normal rate. Due to inclement weather during the week, Saturday shall be a voluntary make up day.

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BUILDING CONSTRUCTION OVERTIME SCHEDULE**

**NO. 124:** Means eight (8) hours shall constitute a day's work on all classes of work between the hours of 6:00 a.m. and 5:30 p.m., Monday through Friday. The pay for time worked during these hours shall be at the regular wage rate. The regular workweek shall be Monday through Friday. Employment from 4:30 p.m. to 12:00 midnight, Monday through Friday, shall be paid for at one and one-half (1½) times the regular hourly rate. From 12:00 midnight until 8:00 a.m. on any day shall be paid for at twice the regular hourly rate. All time worked on Sundays and the recognized holidays shall be paid at the rate of double (2) time. It is understood that forty (40) hours shall constitute a regular workweek, (5-8's) Sunday Midnight through Friday Midnight, understanding anything over eight (8) hours is one and one-half (1½) times the hourly wage rate.

**BOONE COUNTY  
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

**NO. 3:** All work done on New Year's Day, Decoration Day, July 4th, Labor Day, Veteran's Day, Thanksgiving and Christmas shall be compensated at the double (2) time rate of pay. When any of these holidays fall on a Sunday, the following Monday shall be observed.

**NO. 4:** All work done on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas Day shall be paid at the double time rate of pay. If any of the above holidays fall on Sunday, Monday will be observed as the recognized holiday. If any of the above holidays fall on Saturday, Friday will be observed as the recognized holiday.

**NO. 5:** All work that shall be done on New Year's Day, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day shall be paid at the double (2) time rate of pay.

**NO. 7:** The following days are assigned days and are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. If a holiday falls on a Saturday, it shall be observed on the preceding Friday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This is applied to protect Labor Day. When a holiday falls during the normal workweek, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week. However, no reimbursement for these eight (8) hours is to be paid to the workman unless worked. If workman are required to work the above enumerated holidays or days observed as such, or on Sunday, they shall receive double (2) the regular rate of pay for such work.

**NO. 8:** All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day, or the days observed in lieu of these holidays, shall be paid at the double time rate of pay.

**NO. 15:** All work accomplished on the recognized holidays of New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day, or days observed as these named holidays, shall be compensated for at double (2) the regular hourly rate of wages plus fringe benefits. If a holiday falls on Saturday, it shall be observed on the preceding Friday. If a holiday falls on a Sunday, it shall be observed on the following Monday. No work shall be performed on Labor Day, Christmas Day, Decoration Day or Independence Day except to preserve life or property.

**NO. 19:** All work done on New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day shall be paid at the double time rate of pay. The employee may take off Friday following Thanksgiving Day. However, the employee shall notify his or her Foreman, General Foreman or Superintendent on the Wednesday preceding Thanksgiving Day. When one of the above holidays falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double (2) time rate. When one of the holidays falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double (2) time rate.

**NO. 23:** All work done on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Day and Sundays shall be recognized holidays and shall be paid at the double time rate of pay. When a holiday falls on Sunday, the following Monday shall be considered a holiday. When a holiday falls on Saturday, Friday is recognized as a holiday.

**NO. 31:** All work done on New Year's Day, Presidents Day, Good Friday, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, and Employee's Birthday shall be paid at the double time rate of pay. If a holiday falls on Sunday, the following Monday will be observed as the recognized holiday. If a holiday falls on Saturday, the preceding Friday will be observed as the recognized holiday.

## **BOONE COUNTY HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

**NO. 44:** All work done on New Year's Day, Memorial Day, Independence Day, Veteran's Day, Thanksgiving Day, and Christmas Day shall be paid at the double time rate of pay. If a holiday falls on a Sunday, it shall be observed on the Monday following. If a holiday falls on a Saturday, it shall be observed on the preceding Friday. No work shall be performed on these days except in emergency to protect life or property. All work performed on these holidays shall be compensated at double the regular hourly rate for the work performed. Overtime shall be computed at half-hour intervals.

**NO. 45:** All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the day after Thanksgiving, the day before Christmas, and Christmas Day, shall be paid at the double time rate of pay.

**NO. 54:** All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day shall be paid at the double (2) time rate of pay. When a holiday falls on Saturday, it shall be observed on Friday. When a holiday falls on Sunday, it shall be observed on Monday.

**NO. 55:** The following days are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This rule is applied to protect Labor Day. When a holiday falls during the normal work week, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week; however, no reimbursement for this eight (8) hours is to be paid the workmen unless worked. An Employer working a four (4) day, ten (10) hour schedule may use Friday as a make up day when an observed holiday occurs during the work week. Employees have the option to work that make up day. If workmen are required to work the above enumerated holidays, or days observed as such, they shall receive double (2) the regular rate of pay for such work.

**NO. 60:** All work performed on New Year's Day, Armistice Day (Veteran's Day), Decoration Day (Memorial Day), Independence Day (Fourth of July), Thanksgiving Day and Christmas Day shall be paid at the double time rate of pay. No work shall be performed on Labor Day except when triple (3) time is paid. When a holiday falls on Saturday, Friday will be observed as the holiday. When a holiday falls on Sunday, the following Monday shall be observed as the holiday.

**NO. 66:** All work performed on Sundays and the following recognized holidays, or the days observed as such, of New Year's Day, Decoration Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day, shall be paid at double (2) the hourly rate plus an amount equal to the hourly Total Indicated Fringe Benefits. Whenever any such holidays fall on a Sunday, the following Monday shall be observed as a holiday.

**NO. 69:** All work performed on New Year's Day, Memorial Day, July Fourth, Labor Day, Veteran's Day, Thanksgiving Day or Christmas Day shall be compensated at double (2) their straight-time hourly rate of pay. Friday after Thanksgiving and the day before Christmas are also holidays, however, if the employer chooses to work the normal work hours on these days, the employee will be paid at straight -time rate of pay. If a holiday falls on a Saturday, the holiday will be observed on Saturday; if a holiday falls on a Sunday, the holiday will be observed on the following Monday.

**NO. 74:** All work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day, shall be paid at double (2) time of the hourly rate of pay. In the event one of the above holiday's falls on Saturday, the holiday shall be celebrated on Saturday. If the holiday falls on Sunday, the holiday will be celebrated on Monday.

**NO. 76:** Work performed on Holidays shall be paid at the rate of two times the normal rate. Holidays are: New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day. If a holiday falls on a Sunday, it shall be celebrated on the following Monday, if it falls on Saturday, it shall be celebrated on the preceding Friday.

OCCUPATIONAL TITLE	* Date of Increase	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
Carpenter	6/15	\$30.41	23	16	\$15.55
Electrician (Outside-Line Construction\Lineman)	9/15	\$42.52	9	12	\$5.00 + 36.5%
Lineman Operator	9/15	\$36.70	9	12	\$5.00 + 36.5%
Lineman - Tree Trimmer	10/15	\$23.90	32	31	\$9.73 + 3%
Groundman	9/15	\$28.38	9	12	\$5.00 + 36.5%
Groundman - Tree Trimmer	10/15	\$17.64	32	31	\$7.72 + 3%
Laborer					
General Laborer	6/15	\$27.36	2	4	\$12.82
Skilled Laborer	6/15	\$27.36	2	4	\$12.82
Millwright	6/15	\$30.41	23	16	\$15.55
Operating Engineer					
Group I	6/15	\$27.74	21	5	\$23.91
Group II	6/15	\$27.39	21	5	\$23.91
Group III	6/15	\$27.19	21	5	\$23.91
Group IV	6/15	\$23.54	21	5	\$23.91
Oiler-Driver	6/15	\$23.54	21	5	\$23.91
Pile Driver	6/15	\$30.41	23	16	\$15.55
Traffic Control Service Driver		\$26.415	28	27	\$9.045
Truck Driver-Teamster					
Group I	6/15	\$28.87	25	21	\$12.05
Group II	6/15	\$29.03	25	21	\$12.05
Group III	6/15	\$29.02	25	21	\$12.05
Group IV	6/15	\$29.14	25	21	\$12.05

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate sheet.

**REPLACEMENT PAGE  
BOONE COUNTY  
OVERTIME SCHEDULE - HEAVY CONSTRUCTION**

**FED:** Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

**NO. 2:** Means a regular workweek shall be forty (40) hours and will start on Monday and end on Friday. The Employer shall have the option of working five 8-hour days or four 10-hour days Monday through Friday. If an Employer elects to work five 8-hour days during any workweek, hours worked more than eight (8) per day or 40 per week shall be paid at time and one-half the hourly rate Monday through Friday. If an Employer elects to work four 10-hour days in a week, work performed more than ten (10) hours per day or 40 hours per week shall be paid at time and one-half the hourly rate Monday through Friday. When working a five 8-hour day schedule and an Employer is prevented from working forty (40) hours Monday through Friday, or any part thereof, by reason of inclement weather, Saturday or any part thereof may be worked as a make-up day at the straight time rate. If an Employer is working a four 10-hour day schedule and loses a day due to inclement weather, he may work 10 hours Friday at straight time. All hours worked over the 40 hours Monday through Friday will be paid at 1 ½ overtime rate. A workday shift is to begin at the option of the Employer, between 6:00 a.m. and not later than 9:00 a.m. However, the project starting time may be advanced or delayed if required. If workmen are required to work the enumerated holidays or days observed as such or Sundays, they shall receive double (2) the regular rate of pay for such work. Overtime shall be computed at one-half (1/2) hour intervals. Shift: The Contractor may elect to work one, two or three shifts on any work. When operating on more than one shift, the shifts shall be known as the day shift, swing shift, and graveyard shift as such terms are recognized in the industry. When two shifts are worked on any operation, the shifts will consist of eight (8) or ten (10) hours exclusive of lunchtime. When three shifts are worked the first day or day shift will consist of eight (8) hours exclusive of lunchtime. The second or swing shift shall consist of seven and one-half (7 1/2) hours work for eight hours pay, exclusive of lunchtime, and the third or the graveyard shift shall consist of seven (7) hours work for eight (8) hours pay, exclusive of the lunchtime. All time in excess of normal shifts shall be considered overtime. Multiple shift (the two or three shift) operation will not be construed on the entire project if at anytime it is deemed advisable and necessary for the Employer to multiple shift a specific operation. However, no shift shall be started between midnight and six a.m. except the graveyard shift on a three-shift operation, or except in an unusual or emergency situation. If an Employer starts a shift between midnight and 6 a.m. except the graveyard shift on a three-shift operation, he shall reimburse all employees for the entire shift at the double time rate. Completion of the second shift on a two-shift operation or completion of the graveyard shift on a three-shift operation that carries over into Saturday morning, shall be at the straight time rate. Overtime shall be computed at ½ hour intervals.

**NO. 9:** Eight (8) hours shall constitute a work day between the hours of 7:00 a.m. and 4:30 p.m. Forty (40) hours within five (5) days, Monday through Friday inclusive, shall constitute the work week. Work performed in the 9th and 10th hour, Monday through Friday, shall be paid at time and one-half (1½) the regular straight time rate of pay. Contractor has the option to pay two (2) hours per day at the time and one-half (1½) the regular straight time rate of pay between the hours of 6:00 a.m. and 5:30 p.m., Monday through Friday. Work performed in the first eight (8) hours on Saturday shall be paid at the rate of one and eight tenths (1.8) the regular straight time rate. Work performed outside these hours and on Sundays and recognized legal holidays, or days celebrated as such, shall be paid for at the rate of double (2) time.

**NO. 21:** Means the regular workday for which employees shall be compensated at straight time hourly rate of pay shall, unless otherwise provided for, begin at 8:00 a.m. and end at 4:30 p.m. However, the project starting time may be advanced or delayed at the discretion of the Employer. At the discretion of the Employer, when working a five (5) day eight (8) hour schedule, Saturday may be used for a make-up day. If an Employer is prohibited from working on a holiday, that employer may work the following Saturday at the straight time rate. However, the Employer may have the option to schedule his work from Monday through Thursday at ten (10) hours per day at the straight time rate of pay with all hours in excess of ten (10) hours in any one day to be paid at the applicable overtime rate. If the Employer elects to work from Monday through Thursday and is stopped due to circumstances beyond his control, he shall have the option to work Friday or Saturday at the straight time rate of pay to complete his forty (40) hours. If an Employer is prohibited from working on a holiday, that Employer may work the following Friday or Saturday at the straight time rate. Overtime will be at one and one-half (1½) times the regular rate. If workmen are required to work the enumerated holidays or days observed as such, or Sundays, they shall receive double (2) the regular rate of pay for such work.



**REPLACEMENT PAGE  
BOONE COUNTY  
OVERTIME SCHEDULE - HEAVY CONSTRUCTION**

**NO. 23:** Means the regular workweek shall start on Monday and end on Friday, except where the Employer elects to work Monday through Thursday, (10) hours per day. All work over ten (10) hours in a day or forty (40) hours in a week shall be at the overtime rate of one and one-half (1½) times the regular hourly rate. The regular workday shall be either eight (8) or ten (10) hours. If a job can't work forty (40) hours Monday through Friday because of inclement weather or other conditions beyond the control of the Employer, Friday or Saturday may be worked as a make-up day at straight time (if working 4-10's). Saturday may be worked as a make-up day at straight time (if working 5-8's). An Employer, who is working a four (4) ten (10) hour day work schedule may use Friday as a make-up day when a workday is lost due to a holiday. A workday is to begin at the option of the Employer but not later than 11:00 a.m. except when inclement weather, requirements of the owner or other conditions beyond the reasonable control of the Employer prevent work. Except as worked as a make-up day, time on Saturday shall be worked at one and one-half (1½) times the regular rate. Work performed on Sunday shall be paid at two (2) times the regular rate. Work performed on recognized holidays or days observed as such, shall also be paid at the double (2) time rate of pay. **For all overtime hours worked during the week or on Saturday \$14.55 of the fringe benefits portion of the prevailing wage shall be paid at time and one-half (1½). For all overtime hours worked on Sundays or recognized holidays \$14.55 of the fringe benefits portion of the prevailing wage shall be paid double time. The remaining \$.50 of the fringe benefit portion of the prevailing wage shall be paid at straight time.**

**NO. 25:** Means a regular work week of forty (40) hours, starting on Monday and ending on Friday. The regular work day shall be either eight (8) or ten (10) hours. If a crew is prevented from working forty (40) hours Monday through Friday, or any part thereof by reason of inclement weather, Saturday or any part thereof maybe worked as a make-up day at the straight time rate. Employees who are part of a regular crew on a make-up day, notwithstanding the fact that they may not have been employed the entire week, shall work Saturday at the straight time rate. A work day is to begin between 6:00 a.m. and 9:00 a.m. However, the project starting time maybe advanced or delayed if mutually agreed to by the interest parties. All hours worked on recognized holidays, or days observed as such, double (2) time shall be paid.

**NO. 28:** Means a regular work week of forty (40) hours will start on Monday and end on Friday. The regular work day shall be either eight (8) or ten (10) hours. If a crew is prevented from working forty (40) hours Monday through Friday, or any part thereof by reason of inclement weather, Saturday or any part thereof may be worked as a make-up day at the straight time rate. Employees who are part of a regular crew on a make-up day, notwithstanding the fact that they may not have been employed the entire week, shall work Saturday at the straight time rate. A workday is to begin between 6:00 a.m. and 9:00 a.m. However, the project starting time may be advanced or delayed if mutually agreed to by the interest parties. For all time worked on recognized holidays, or days observed as such, double (2) time shall be paid.

**NO. 32:** Means the overtime rate shall be time and one-half the regular rate for work over forty (40) hours per week. Sundays and Holidays shall be paid at double the straight time rate.



**BOONE COUNTY  
HOLIDAY SCHEDULE – HEAVY CONSTRUCTION**

**NO. 4:** All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, or observed as such, shall be paid at the double time rate of pay. When a Holiday falls on a Sunday, Monday shall be observed. No work shall be performed on Labor Day, except in case of jeopardy to life or property. This is applied to protect Labor Day.

**NO. 5:** The following days are recognized as holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. If a holiday falls on a Saturday, it shall be observed on the preceding Friday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This rule is applied to protect Labor Day. When a holiday falls during the normal work week, Monday through Friday, it shall be counted as eight (8) hours toward a forty (40) hour week; however, no reimbursement for this eight (8) hours is to be paid the workman unless worked. If workmen are required to work the above recognized holidays or days observed as such, or Sundays, they shall receive double (2) the regular rate of pay for such work. The above shall apply to the four 10's Monday through Friday work week. The ten (10) hours shall be applied to the forty (40) hour work week.

**NO. 12:** All work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Day, or days celebrated as such, shall be paid at the double time rate of pay. When one of the foregoing holidays falls on Sunday, it shall be celebrated on the following Monday. When one of the foregoing holidays falls on Saturday, it shall be celebrated on the Friday before the holiday.

**NO. 16:** The following days are recognized as holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day. If a holiday falls on Sunday, it shall be observed on the following Monday. If a holiday falls on Saturday, it shall be observed on the preceding Friday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This rule is applied to protect Labor Day. When a holiday falls during the normal work week, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week; however, no reimbursement for this eight (8) hours is to be paid to the worker unless worked. If workers are required to work the above recognized holidays or days observed as such, they shall receive double (2) the regular rate of pay for such work.

**NO. 21:** The following days are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This rule is applied to protect Labor Day. When a holiday falls during the normal work week, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week; however, no reimbursement for this eight (8) hours is to be paid the workman unless worked. An Employer working a four (4) day, ten (10) hour schedule may use Friday as a make-up day when an observed holiday occurs during the work week. Employees have the option to work that make-up day. If workmen are required to work the above enumerated holidays, or days observed as such, they shall receive double (2) the regular rate of pay for such work.

**NO. 27:** The following days are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This rule is applied to protect Labor Day. When a holiday falls during the normal work week, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week; however, no reimbursement for this eight (8) hours is to be paid the workmen unless worked. An Employer working a four (4) day, ten (10) hour schedule may use Friday as a make up day when an observed holiday occurs during the work week. Employees have the option to work that make up day. If workmen are required to work the above enumerated holidays, or days observed as such, they shall receive double (2) the regular rate of pay for such work.

**NO. 31:** All work performed on New Year's Day, Presidents' Day, Veterans' Day, Good Friday, Decoration Day, Fourth of July, Labor Day, Christmas Eve Day, Christmas Day, Thanksgiving Day and Day after Thanksgiving or days celebrated for the same.



**AFFIDAVIT OF COMPLIANCE WITH THE PREVAILING WAGE LAW**  
**(To be returned at end of project)**

Before me, the undersigned Notary Public, in and for the County of \_\_\_\_\_

State of \_\_\_\_\_, personally came and appeared (name and title)

\_\_\_\_\_ of the (name of company)

\_\_\_\_\_ (a corporation) (a partnership) (a proprietorship)

and after being duly sworn did depose and say that all provisions and requirements set out in Chapter 290 Sections 290.210 through and including 290.340, Missouri Revised Statutes, pertaining to the payment of wages to workmen employed on public works projects have been fully satisfied and there has been no exception to the full and complete compliance with said provisions and requirements and with Wage Determination NO. \_\_\_\_\_ issued by the Division of Labor Standards on the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, in carrying out the Contract and work in connection with

(name of project) \_\_\_\_\_ located at

(name of institution) \_\_\_\_\_ in \_\_\_\_\_ County,

Missouri and completed on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Signature

Subscribed and sworn to me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

My commission expires \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Notary Public



***“No Bid” Response Form***

**Boone County Purchasing**  
613 E. Ash, Room 110  
Columbia, MO 65201

Melinda Bobbitt, Director of Purchasing  
(573) 886-4391 – Fax: (573) 886-4390

**“NO BID RESPONSE FORM”**

**NOTE: COMPLETE AND RETURN THIS FORM ONLY IF YOU DO NOT WANT TO SUBMIT A BID**

If you do not wish to respond to this bid request, but would like to remain on the Boone County vendor list **for this service/commodity**, please remove form and return to the Purchasing Department by mail or fax.

If you would like to FAX this “No Bid” Response Form to our office, the FAX number is (573) 886-4390.

**Bid: 71-12NOV15 – Radio Tower Assembly and Erection at the Emergency Communication Center**

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_

Contact: \_\_\_\_\_

Date: \_\_\_\_\_

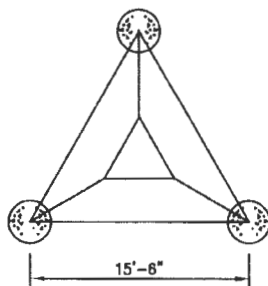
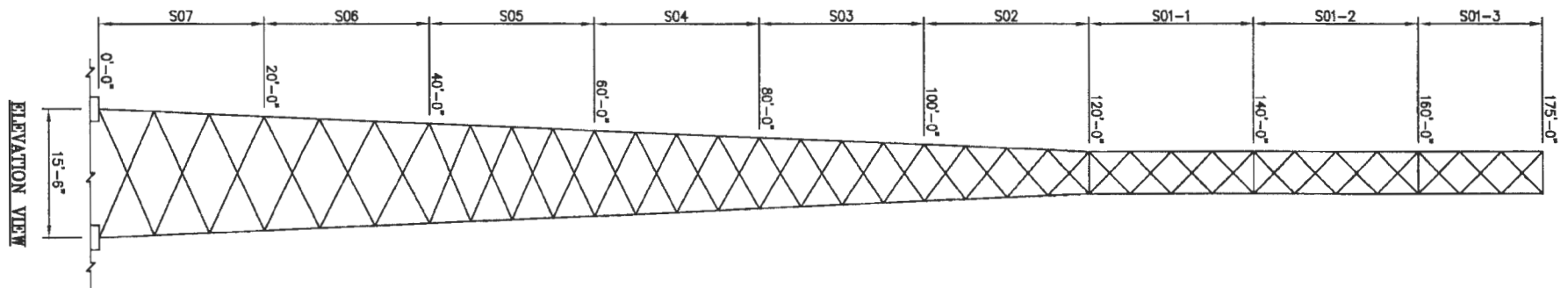
Reason(s) for not bidding:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





LEGS	4.5 S.R.	4.25 S.R.	3.75 S.R.		3.5 S.R.	3.25 S.R.	3.0 S.R.	2.25 S.R.	1.75 S.R.
DIAGONALS	L 3 X 3 X 3/16		L 2 1/2 X 2 1/2 X 1/4		L 2 X 2 X 1/4		L 2 X 2 X 5/16	L 2 X 2 X 3/16	L 2 X 2 X 1/8
HORIZONTALS	NONE					L 2 X 2 X 1/4	L 2 X 2 X 5/16	L 2 X 2 X 3/16	L 2 X 2 X 1/8
BAYS/SECTION	3 BAYS			4 BAYS				3 BAYS	
SECTION WEIGHT	5128 LBS.	4543 LBS.	3996 LBS.	3612 LBS.	3075 LBS.	2707 LBS.	2493 LBS.	1523 LBS.	780 LBS.



PLAN VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	BY	DESCRIPTION
1	10/26/15	DR	FOR REVISIONS ADD PLAN ON A 175 FT.

**Sabre Industries**  
Towers and Poles

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MASTER: 175 FT. MODEL S3R-SD  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE B	DRAWING NO. 122944-MS	REV 1
DATE 06/09/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 2	

**DRAWING LIST**

- 122944-F1 . . . . . CAISSON FOUNDATION
- 122944-F2 . . . . . MAT & PIER FOUNDATION
- 9031085 . . . . . LEG TO LEG TEMPLATE
- 906195 . . . . . TOWER BASE INSTALLATION
- 122944-S07 . . . . . SECTION 0 FT. - 20 FT.
- 122944-S06 . . . . . SECTION 20 FT. - 40 FT.
- 122944-S05 . . . . . SECTION 40 FT. - 60 FT.
- 122944-S04 . . . . . SECTION 60 FT. - 80 FT.
- 122944-S03 . . . . . SECTION 80 FT. - 100 FT.
- 122944-S02 . . . . . SECTION 100 FT. - 120 FT.
- 122944-S01-1 . . . . . SECTION 120 FT. - 140 FT.
- 122944-S01-2 . . . . . SECTION 140 FT. - 160 FT.
- 122944-S01-3 . . . . . SECTION 160 FT. - 175 FT.
- 122944-CL1 . . . . . CLIMBING LADDER INSTALLATION
- 907812 . . . . . CLIMBING LADDER
- 907813 . . . . . LADDER BASE
- SEE MANUAL W/KIT . . . . . CABLE SAFETY CLIMB DEVICE
- 122944-WG1 . . . . . WAVEGUIDE LADDER INSTALLATION
- 907338 . . . . . WAVEGUIDE LADDER (8 HOLE)
- 122944-FP . . . . . FIXED PLATFORM @ 175'
- 122944-PM1 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 175' & 165'
- 122944-DT1 . . . . . STIFFARM MOUNT KIT FOR PIPE MOUNT @ 165'
- 122944-PM2 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 150'
- 122944-DT2 . . . . . STIFFARM MOUNT KIT FOR PIPE MOUNT @ 150'
- 122944-PM3 . . . . . 4 1/2 O.D. PIPE MOUNT KITS @ 135'
- 122944-DT3 . . . . . STIFFARM MOUNT KIT FOR PIPE MOUNT @ 135'
- 122944-SA1 . . . . . 3' SIDEARMS: (3) EA. @ 100', 50' & 30'
- 122944-PM4 . . . . . 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 100'
- 122944-ST1 . . . . . SWIVEL KNUCKLE TIEBACK KITS FOR SIDEARMS @ 100'
- 122944-PM5 . . . . . 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 50'
- 122944-PM6 . . . . . 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 35'
- 9014671 . . . . . BOLT INSTALLATION
- 906956 . . . . . TOWER NAME PLATE
- 907901 . . . . . INVENTORY REQUIREMENT SHEET
- BOM-1 (REV. 1) . . . . . BILL OF MATERIAL


**TOWER DESIGN INFORMATION**

THIS ERECTION DRAWING PACKAGE IS BASED ON THE STRUCTURAL ANALYSIS NO. 15-8522-MEG.

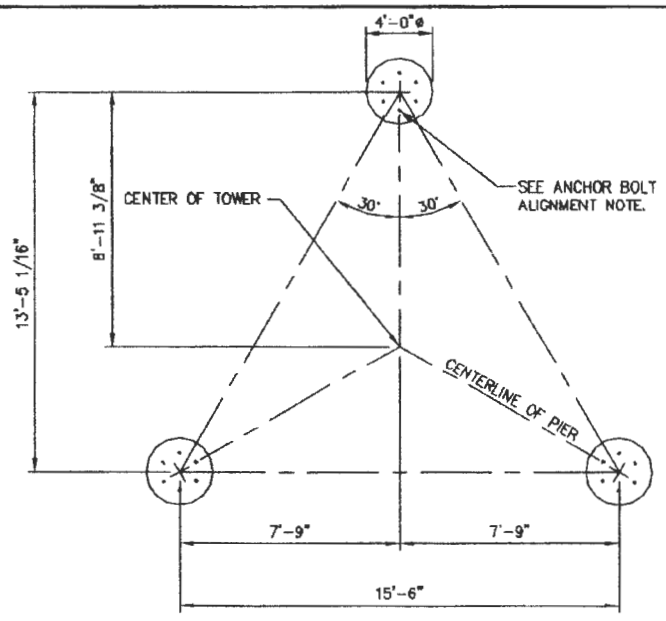
THIS TOWER WAS DESIGNED FOR A BASIC WIND SPEED OF 90 MPH WITH 0" OF RADIAL ICE, AND 40 MPH WITH 1" OF RADIAL ICE, IN ACCORDANCE WITH ANSI/TIA-222-G, STRUCTURE CLASS III, EXPOSURE CATEGORY C, AND TOPOGRAPHIC CATEGORY 1.

THE TOWER AND FOUNDATIONS WERE DESIGNED WITH AN IMPORTANCE FACTOR OF 1.25.

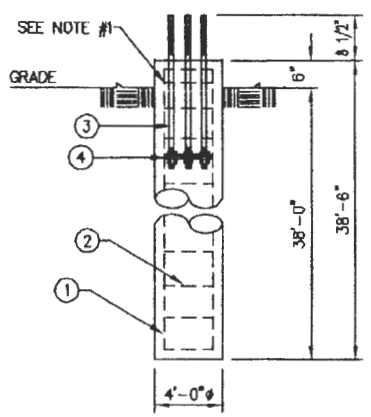
TOWER DESIGNED ANTENNA LOADING			
ELEV.	ANTENNAS	ELEV.	ANTENNAS
185'	(3) ATC-GD1V40s	150'	(1) 4' H.P. DISH
180.3'	(3) DB222a	135'	(1) LEG DISH MOUNT
175'	(3) LEG DISH MOUNTS	135'	(1) LEG DISH MOUNT
175'	(1) PLATFORM - FIXED	135'	(1) LEG DISH MOUNT
175'	(3) SP3-5.2a	135'	(1) 8' H.P. DISH
165'	(1) LEG DISH MOUNT	135'	(1) 4' H.P. DISH
165'	(1) LEG DISH MOUNT	135'	(1) 4' H.P. DISH
165'	(1) LEG DISH MOUNT	125'	(1) PLATFORM - FIXED
165'	(1) 6' H.P. DISH	125'	(3) TOWER TOP AMPLIFIERS
165'	(1) 4' H.P. DISH	125'	(12) 5960110s
165'	(1) 4' H.P. DISH	110'	(3) ATC-GD1V40s
150'	(1) LEG DISH MOUNT	100'	(3) 3' SIDEARMS
150'	(1) LEG DISH MOUNT	50'	(3) 3' SIDEARMS
150'	(1) LEG DISH MOUNT	40'	(3) ATC-GD1V40s
150'	(1) 6' H.P. DISH	30'	(1) 3' SIDEARM
150'	(1) 4' H.P. DISH		

<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"</p>	<p>MATERIAL:</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>		<p>MASTER: 175 FT. MODEL S3R-SD</p> <p>SITE: COUNTY DRIVE, MO</p> <p>CUSTOMER: BOONE COUNTY</p>																
<p>CONFIDENTIAL</p> <p>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2015 Sabre Communications Corporation. All rights reserved.</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">JOB NO. 122944</td> <td style="width: 10%;">SIZE B</td> <td style="width: 25%;">DRAWING NO. 122944-MS</td> <td style="width: 10%;">REV 1</td> </tr> <tr> <td>DATE 06/09/15</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DRAWN BY DRL</td> <td></td> <td>SCALE NONE</td> <td>PAGE 2 OF 2</td> </tr> <tr> <td>CHECKED BY ZAK</td> <td></td> <td></td> <td></td> </tr> </table>		JOB NO. 122944	SIZE B	DRAWING NO. 122944-MS	REV 1	DATE 06/09/15				DRAWN BY DRL		SCALE NONE	PAGE 2 OF 2	CHECKED BY ZAK			
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DRW/CHK</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/29/15</td> <td>ZAK</td> <td>REVISION 175 FT. TOWER</td> </tr> </tbody> </table>		REV	DATE	DRW/CHK	DESCRIPTION	1	10/29/15	ZAK	REVISION 175 FT. TOWER										
REV	DATE	DRW/CHK	DESCRIPTION																
1	10/29/15	ZAK	REVISION 175 FT. TOWER																





PLAN VIEW



ELEVATION VIEW

REINFORCING STEEL SCHEDULE								
ITEM	LOCATION	NO. REQ'D.	BAR SPC'G.	SIZE	CUT LGTH.	TOTAL LGTH.	TOTAL WT.	SHAPE
①	PIER VERTICAL REINFORCING	60	EQUALLY SPACED	#7	38'-0"	2280'-0"	4650 LBS.	STRAIGHT
②	PIER TIES	120	SPACED 12" C/C	#4	12'-2"	1460'-0"	975 LBS.	
TOTAL REBAR WT.							5635 LBS.	

ANCHOR BOLT SCHEDULE				
ITEM	PART NO.	NO. REQ'D.	ANCHOR BOLT SIZE	SPACING
③	C40041060	18	1 1/2" x 6'-6"	EQUALLY SPACED

TEMPLATE SCHEDULE			
ITEM	PART NO.	NO. REQ'D.	BOLT CIRCLE
④	C30139210	6	10 1/4"

CONCRETE REQ'D	
PER PIER	17.92 CU. YDS.
TOTAL	53.76 CU. YDS.

GENERAL NOTES

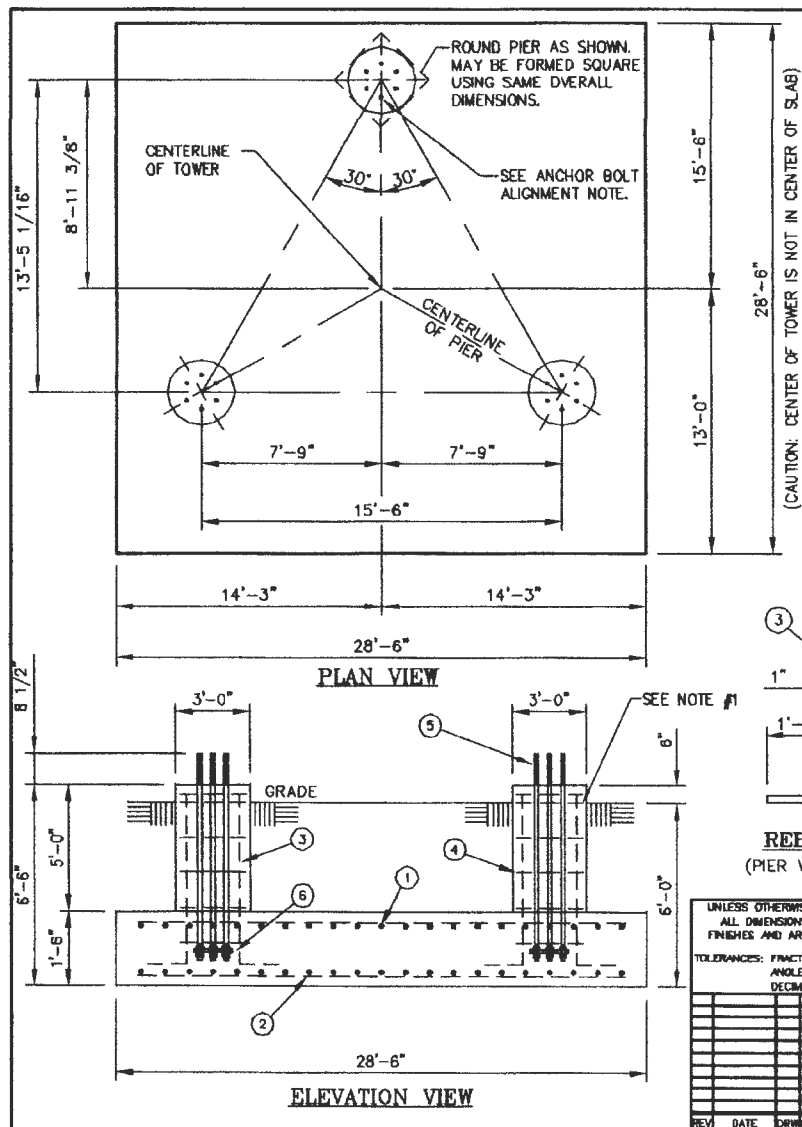
1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI, IN ACCORDANCE WITH ACI 318-05. (2 REBAR TIES REQ'D IN THE TOP 5")
2. REBARS TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
3. ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
4. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 3/4".
5. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY CROCKETT GTL PROJECT NO. G14076.1, DATED JANUARY 30, 2015.
6. SEE THE GEOTECHNICAL REPORT FOR DRILLED PIER INSTALLATION REQUIREMENTS, IF SPECIFIED.
7. THE FOUNDATION IS BASED ON THE FOLLOWING FACTORED LOADS:  
 FACTORED UPLIFT (KIPS) = 414.55  
 FACTORED DOWNLOAD (KIPS) = 451.56  
 FACTORED SHEAR (KIPS) = 34.52
8. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL).

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	BY	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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FOUNDATION: 175 FT. MODEL S3R-SD			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-F1	REV 0
DATE 05/21/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			



REINFORCING STEEL SCHEDULE								
ITEM	LOCATION	NO. REQ'D	BAR SPC'G.	SIZE	CUT LGTH.	TOTAL LGTH.	TOTAL WT.	SHAPE
①	PAD TOP REINFORCING	112	EQUALLY SPACED	#8	28'-0"	3136'-0"	8373 LBS.	STRAIGHT
②	PAD BOTTOM REINFORCING	112	EQUALLY SPACED	#8	28'-0"	3136'-0"	8373 LBS.	STRAIGHT
③	PIER VERTICAL REINFORCING	42	EQUALLY SPACED	#8	7'-1"	297'-6"	794 LBS.	
④	PIER TIES	21	SPACED 12" C/C	#4	9'-1"	190'-9"	127 LBS.	
TOTAL REBAR WT.							17667 LBS.	

ANCHOR BOLT SCHEDULE				
ITEM	PART NO.	NO. REQ'D	ANCHOR BOLT SIZE	SPACING
⑤	C40041060	18	1 1/2" x 6'-6"	EQUALLY SPACED

TEMPLATE SCHEDULE			
ITEM	PART NO.	NO. REQ'D	BOLT CIRCLE
⑥	C30138210	6	10 1/4"

CONCRETE REQ'D	ROUND PIERS	SQUARE PIERS
PAD	45.13 CU. YDS.	45.13 CU. YDS.
PIERS	3.93 CU. YDS.	5.00 CU. YDS.
TOTAL	49.06 CU. YDS.	50.13 CU. YDS.

### GENERAL NOTES

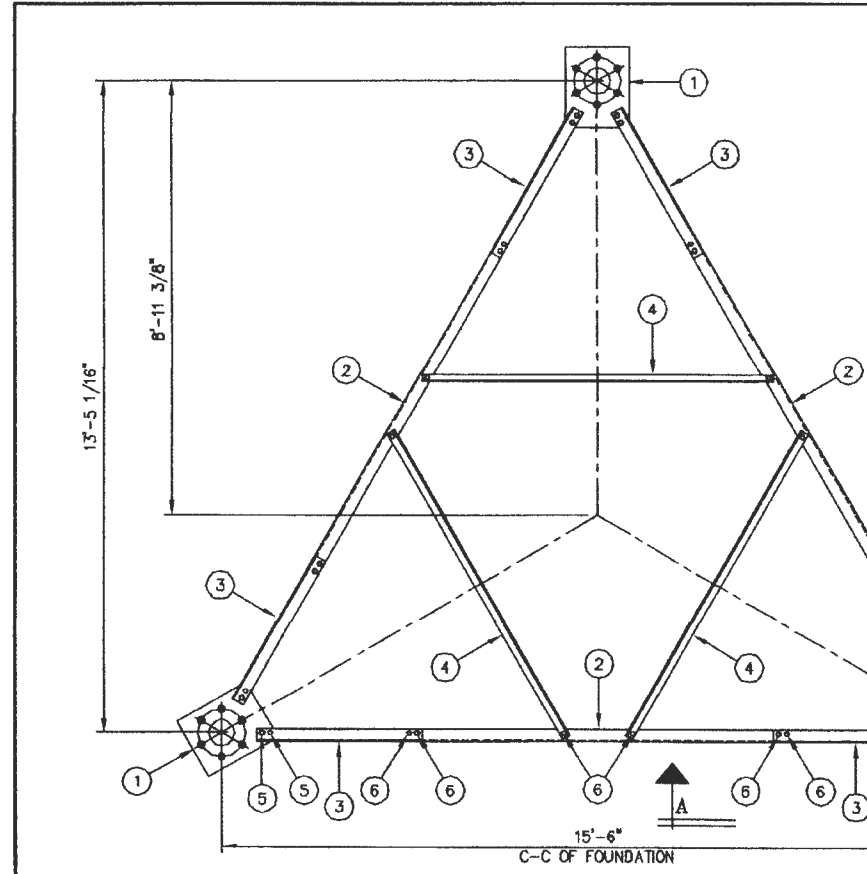
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-05. (2 REBAR TIES REQ'D IN THE TOP 5")
- REBAR TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
- ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
- ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 3/4".
- THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY CROCKETT GTL PROJECT NO. G14076.1, DATED JANUARY 30, 2015.
- THE FOUNDATION DESIGN ASSUMES THAT THE EXISTING UNDOCUMENTED FILL WILL BE REMEDIATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- THE FOUNDATION IS BASED ON THE FOLLOWING FACTORED LOADS:  
 FACTORED DOWNLOAD (KIPS) = 50.5  
 FACTORED OVERTURN (KIP-FT) = 5835.5  
 FACTORED SHEAR (KIPS) = 56.7
- ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL).

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
ANGLES ± 1/2 DEG.				
DECIMALS ± .010"				
REV	DATE	DRWCHK	DESCRIPTION	

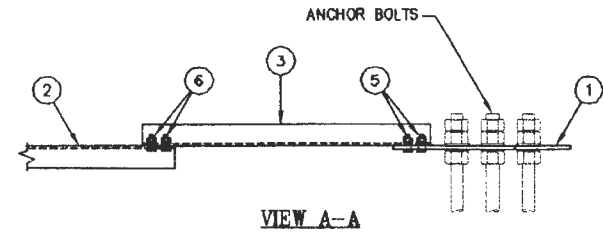


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FOUNDATION: 175 FT. MODEL S3R-SD			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-F2	REV 0
DATE 05/21/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE PAGE 1 OF 1



LIST OF MATERIAL							
ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	WEIGHT LBS.	PAINT
		NUMBER	REV				
1.	3	C30139237	0	C30139237	PLATE, ANCHOR BOLT TEMPLATE, 1 1/2" A.B. ON A 10 1/4" B.C.	97	N/R
2.	3	C30139413	0	C30139413	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 10'-0	111	N/R
3.	6	C30139414	0	C30139414	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 2'-4 3/4	53	N/R
4.	3	C30139443	0	C30139443	ANGLE, TEMPLATE SUPPORT, 2 1/2 X 2 1/2 X 3/16 X 7'-3	67	N/R
5.	12			C40026023	BOLT ASSEMBLY, 5/8 # X 2 A325	6	
6.	18			C40026022	BOLT ASSEMBLY, 5/8 # X 1 3/4 A325	8	
TOTAL WEIGHT IN LBS.						342	



(6) 1 1/2" ANCHOR BOLTS  
SPACED 60° APART ON A  
10 1/4" BOLT CIRCLE

**NOTE:**  
ALWAYS COMPARE THE DIMENSIONS SHOWN ON THIS DRAWING WITH  
THE PROPER CONCRETE FOUNDATION DRAWING, PRIOR TO PLACING  
CONCRETE.

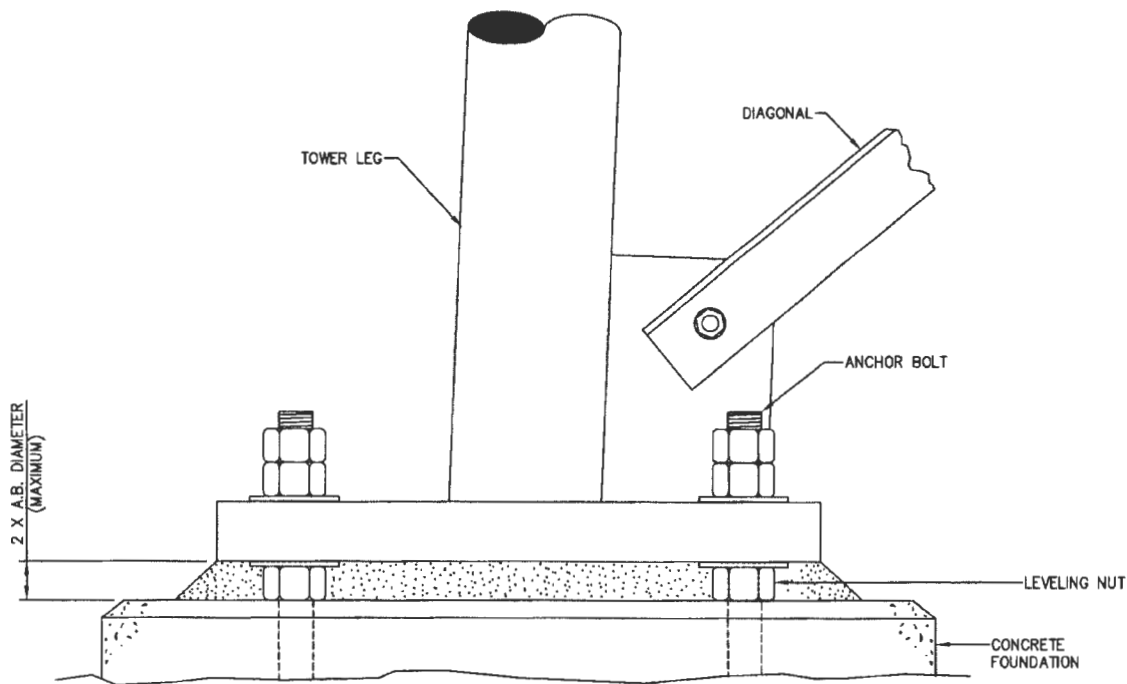
PLAN VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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LEG TO LEG TEMPLATE INSTALLATION FOR MODEL S3R-SD SECTION 07 BASE SPREAD 15'-6" C-C OF FOUNDATION (6) 1 1/2" A.B. ON A 10 1/4" B.C.			
REF. 9030259	SIZE B	DRAWING NO. 9031085	REV 0
DATE 3/8/12	DRAWN BY LRS	CHECKED BY KLE	SCALE None
		PAGE 1 OF 1	



ELEVATION VIEW

**NOTES:**

1. AFTER THE TOWER HAS BEEN PARTIALLY ERECTED AND PLUMBED, INSTALL GROUT BETWEEN THE BASE PLATE AND THE TOP OF THE FOUNDATION.
2. GROUT IS TO BE A NON-SHRINK, HIGH STRENGTH GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi. INSTALL GROUT PER MANUFACTURER'S RECOMMENDATIONS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION
1	04/11/97	MLC	ADD NEW INT BLOCK
2	08/28/99	MLC	REWORK IN ANCHOR
3	05/12/01	MLC	REWORK IN ANCHOR 2000
4	9/17/04	MLC	REWORK DTD BY 50% INT BLOCK
5	12/30/05	MLC	CHG INT BLOCK DESCRIPTION TO INCLUDE S&R
6	1/28/07	MLC	ADD GROUT INT.
7	1/28/07	MLC	REWORK BASE PLATE TO END GAP



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<b>TOWER BASE INSTALLATION (S3R &amp; S4R)</b>				
DATE		SIZE	DRAWING NO.	REV
05/20/97		B	906195	7
DRAWN BY		SCALE		PAGE
MLC		None		1 OF 1
CHECKED BY		DLW		



### LIST OF MATERIAL

#### 07-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	07-T1181048	SECT. 7 LEG 4 1/2" x 20'-0" 5/16"	3923
TOTAL WEIGHT LBS				3923

#### 07-T8300070 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02581	ANGLE, DIAGONAL 3 X 3 X 3/16 X 15'-8 1/16"	362
3	6	TS02582	ANGLE, DIAGONAL 3 X 3 X 3/16 X 15'-2 1/16"	352
4	6	TS02583	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-8"	340
TOTAL WEIGHT LBS				1054

#### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	19	C40026115	BOLT ASSEMBLY, 1 1/2" x 6 1/2" A325	115
TOTAL WEIGHT LBS				115

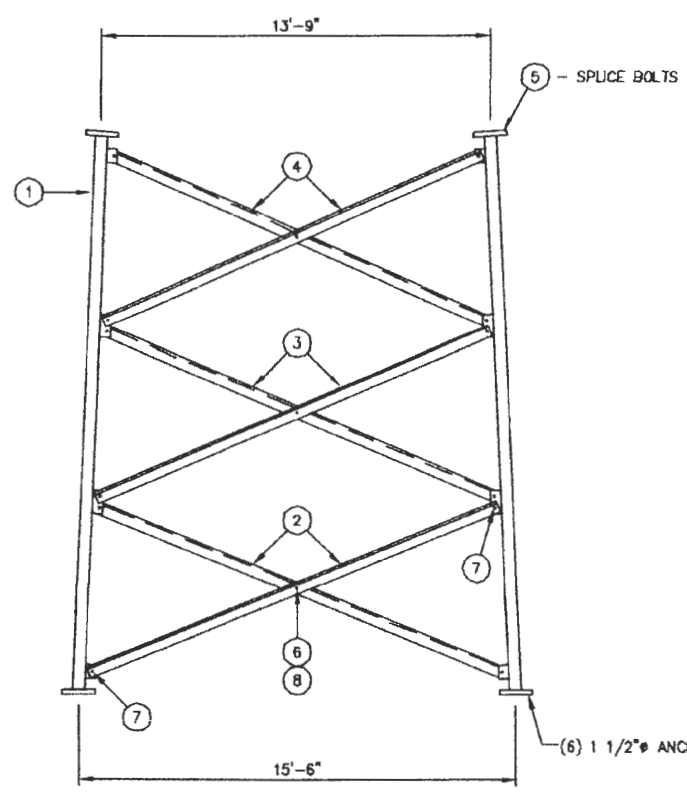
#### TK00260 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026044	BOLT ASSEMBLY, 3/4" x 2 1/4" A325	7
7	38	C40026043	BOLT ASSEMBLY, 3/4" x 2" A325	27
8	10	C40047009	RINGFILL, 1/2" THICK - 3/4" BOLT	2
TOTAL WEIGHT LBS				36

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 5128

#### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.



ELEVATION VIEW

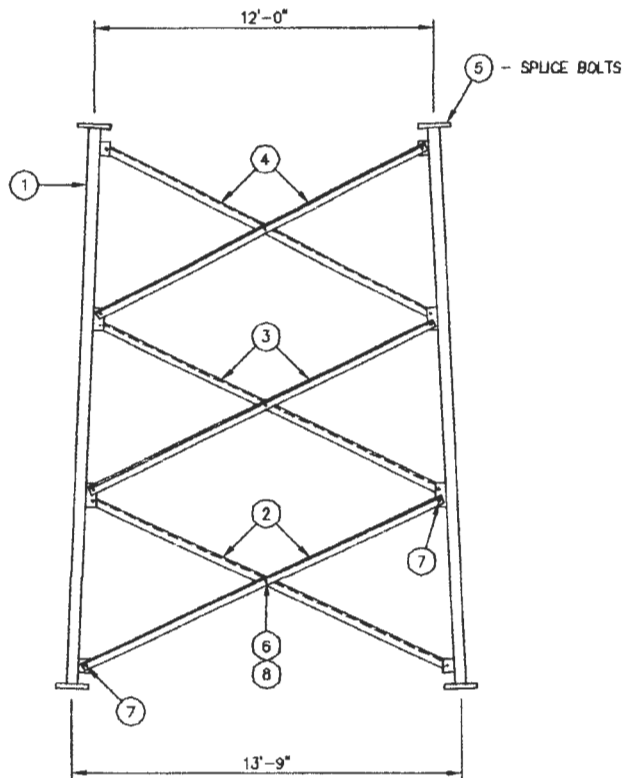
(6) 1 1/2" ANCHOR BOLTS ON A 10 1/4" BOLT CIRCLE

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL		
REV	DATE	CHK	DESCRIPTION		



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SECTION ERECTION: 07 07-T8300070			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-S07	REV 0
DATE 05/20/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	



ELEVATION VIEW

LIST OF MATERIAL

06-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	06-T1181040	SECT. 6 LEG 4 1/4" x 20'-0 5/16"	3495
TOTAL WEIGHT LBS				3495

06-T8300064 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02563	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-0 7/8"	326
3	6	TS02564	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-6 15/16"	314
4	6	TS02565	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-1 1/16"	303
TOTAL WEIGHT LBS				943

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	19	C40026094	BOLT ASSEMBLY, 1 1/4" x 5 1/2" A325	69
TOTAL WEIGHT LBS				69

TK00260 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026044	BOLT ASSEMBLY, 3/4" x 2 1/4" A325	7
7	38	C40026043	BOLT ASSEMBLY, 3/4" x 2" A325	27
8	10	C40047009	RINGFILL, 1/2" THICK - 3/4" BOLT	2
TOTAL WEIGHT LBS				36

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 4543

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

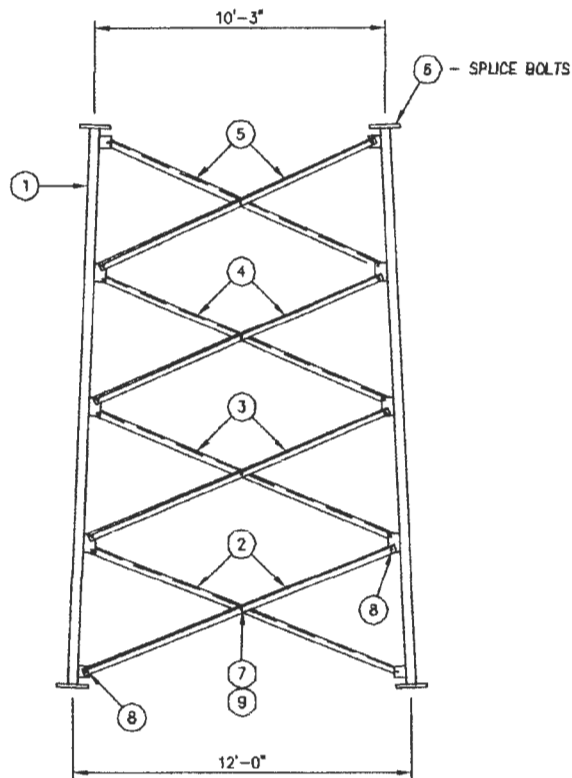
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION



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SECTION ERECTION: 06 06-T8300064  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE: B	DRAWING NO. 122944-S06	REV 0
DATE 05/20/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE PAGE 1 OF 1



ELEVATION VIEW

LIST OF MATERIAL

05-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	05-T1180944	SECT. 5 LEG 3 3/4" $\phi$ X 20'-0 5/16	2735
TOTAL WEIGHT LBS				2735

05-T8300060 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02549	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-10 15/16	305
3	6	TS02550	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-6 1/4	295
4	6	TS02551	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-1 5/8	285
5	6	TS02552	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 10'-9	275
TOTAL WEIGHT LBS				1160

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026094	BOLT ASSEMBLY, 1 1/4" $\phi$ X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

TK00259 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026024	BOLT ASSEMBLY, 5/8" $\phi$ X 2 1/4 A325	7
8	50	C40026023	BOLT ASSEMBLY, 5/8" $\phi$ X 2 A325	23
9	13	C40047003	RINGFILL, 3/8 THICK - 5/8" $\phi$ BOLT	2
TOTAL WEIGHT LBS				32

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3996

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

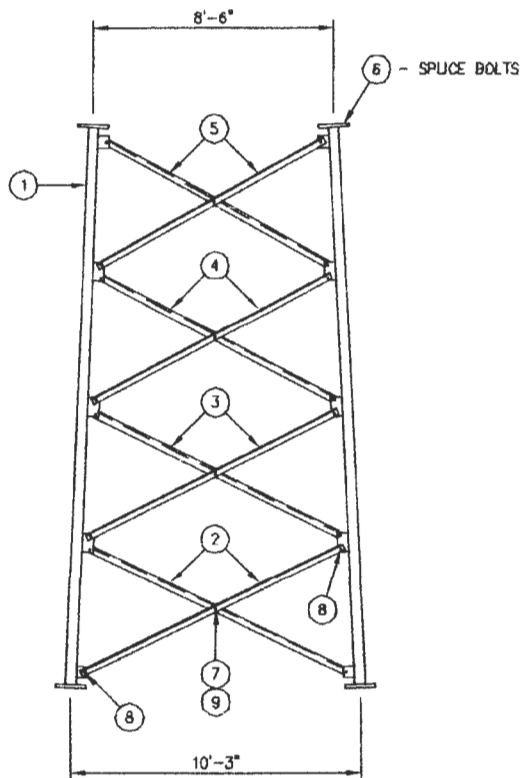
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS $\pm$ 1/16" ANGLES $\pm$ 1/2 DEG. DECIMALS $\pm$ .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION



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SECTION ERECTION: 05 05-T8300060  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE B	DRAWING NO. 122944-S05	REV 0
DATE 05/20/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			



ELEVATION VIEW

LIST OF MATERIAL

04-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	04-T1180944	SECT. 4 LEG 3 3/4" $\phi$ X 20'-0 5/16	2735
TOTAL WEIGHT LBS				2735

04-T8300052 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02517	ANGLE, DIAGONAL 2 X 2 X 1/4 X 10'-3 11/16	205
3	6	TS02518	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-11 3/16	198
4	6	TS02519	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-6 11/16	190
5	6	TS02520	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-2 1/4	183
TOTAL WEIGHT LBS				776

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026094	BOLT ASSEMBLY, 1 1/4" $\phi$ X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

TK00259 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026024	BOLT ASSEMBLY, 5/8" $\phi$ X 2 1/4 A325	7
8	50	C40026023	BOLT ASSEMBLY, 5/8" $\phi$ X 2 A325	23
9	13	C40047003	RINCFILL, 3/8 THICK - 5/8" $\phi$ BOLT	2
TOTAL WEIGHT LBS				32

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3812

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION

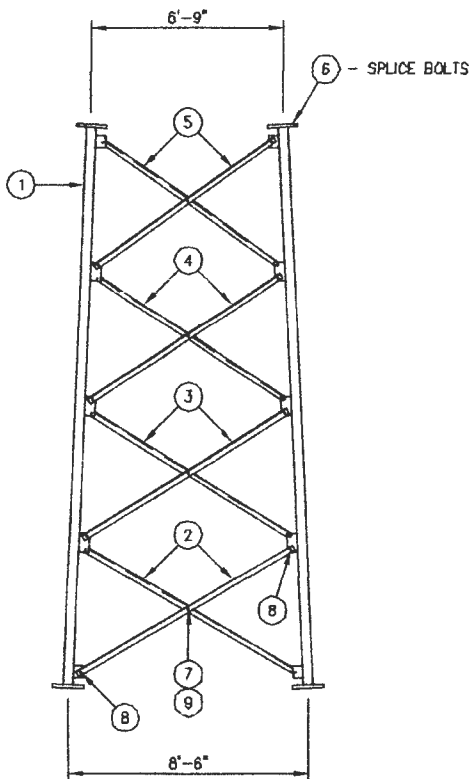


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SECTION ERECTION: 04 04-T8300052  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE: B	DRAWING NO. 122944-S04	REV 0
DATE 05/20/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1		PAGE 1 OF 1	





ELEVATION VIEW

LIST OF MATERIAL

03--LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	03--T1180846	SECT. 3 LEG 3 1/2" $\phi$ X 20'-0 5/16	2337
TOTAL WEIGHT LBS				2337

03--T8300047 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02497	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-10 1/2	176
3	6	TS02498	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-6 1/8	169
4	6	TS02499	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-1 7/8	162
5	6	TS02500	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-9 11/16	155
TOTAL WEIGHT LBS				662

SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026080	BOLT ASSEMBLY, 1" $\phi$ X 4 3/4 A325	44
TOTAL WEIGHT LBS				44

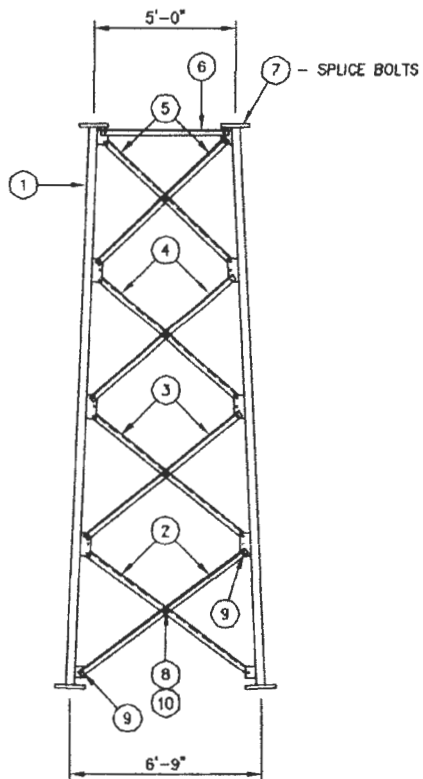
TK00259 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026024	BOLT ASSEMBLY, 5/8" $\phi$ X 2 1/4 A325	7
8	50	C40026023	BOLT ASSEMBLY, 5/8" $\phi$ X 2 A325	23
9	13	C40047003	RINGFILL, 3/8 THICK -- 5/8" $\phi$ BOLT	2
TOTAL WEIGHT LBS				32

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3075

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:				SECTION ERECTION: 03 03-T8300047			
TOLERANCES: FRACTIONS $\pm$ 1/16" ANGLES $\pm$ 1/2 DEG. DECIMALS $\pm$ .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL				SITE: COUNTY DRIVE, MO			
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				JOB NO. 122944		SIZE	DRAWING NO.		REV
				DATE 05/20/15		B	122944-S03		0
				DRAWN BY RWM				SCALE	PAGE
				CHECKED BY ZAK				NONE	1 OF 1
REV	DATE	BY/CHK	DESCRIPTION						



ELEVATION VIEW

LIST OF MATERIAL

02-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	02-T1180738	SECT. 2 LEG 3 1/4" x 20'-0 5/16"	2038
TOTAL WEIGHT LBS				2038

02-T8300039 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02465	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-4 1/8"	146
3	6	TS02466	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-0 1/8"	140
4	6	TS02467	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-8 3/16"	133
5	6	TS02468	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-4 7/16"	127
6	3	TS02451	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 5/8"	45
TOTAL WEIGHT LBS				591

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	19	C40026079	BOLT ASSEMBLY, 1" x 4 1/2" A325	43
TOTAL WEIGHT LBS				43

TK00146 HARDWARE KIT

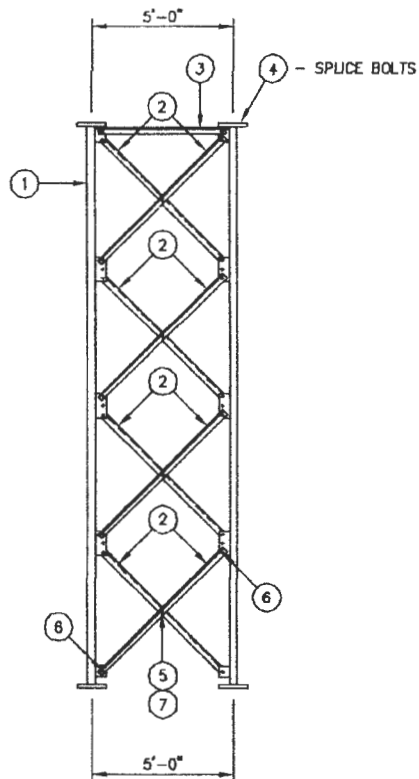
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	13	C40026024	BOLT ASSEMBLY, 5/8" x 2 1/4" A325	7
9	57	C40026023	BOLT ASSEMBLY, 5/8" x 2" A325	26
10	13	C40047003	RINGFILL, 3/8" THICK - 5/8" BOLT	2
TOTAL WEIGHT LBS				35

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 2707

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:				SECTION ERECTION: 02 02-T8300039			
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL				SITE: COUNTY DRIVE, MO			
				<p><b>CONFIDENTIAL</b></p> <p>This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2015 Sabre Communications Corporation. All rights reserved.</p>		CUSTOMER: BOONE COUNTY			
				JOB NO. 122944    SIZE B    DRAWING NO. 122944-S02    REV 0		DATE 05/20/15			
				DRAWN BY RWM		SCALE NONE		PAGE 1 OF 1	
REV		DATE		DRAWING		DESCRIPTION		CHECKED BY ZAK	



ELEVATION VIEW

## LIST OF MATERIAL

### 01-20-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180632	SECT. 1 LEG 3 @ X 20'-0 5/16	1754
TOTAL WEIGHT LBS				1754

### 01-T8300032 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02444	ANGLE, DIAGONAL 2 X 2 X 5/16 X 6'-2 3/4	610
3	3	TS02412	ANGLE, HORIZONTAL 2 X 2 X 5/16 X 4'-5 3/4	55
TOTAL WEIGHT LBS				665

### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	19	C40026077	BOLT ASSEMBLY, 1 @ X 4 A325	39
TOTAL WEIGHT LBS				39

### TK00146 HARDWARE KIT

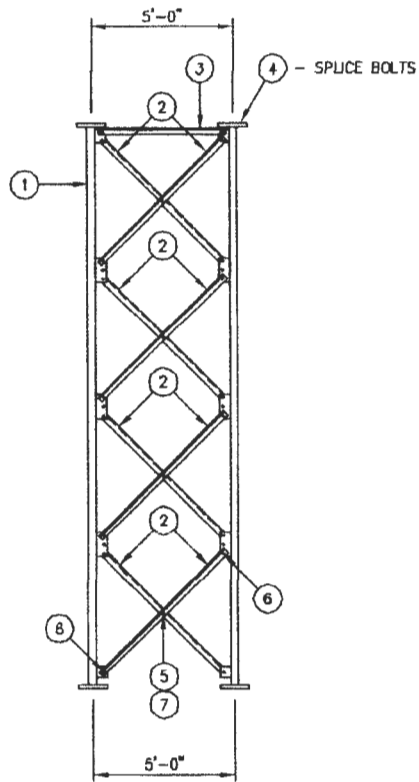
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	13	C40026024	BOLT ASSEMBLY, 5/8 @ X 2 1/4 A325	7
6	57	C40026023	BOLT ASSEMBLY, 5/8 @ X 2 A325	26
7	13	C40047003	RINGFILL, 3/8 THICK - 5/8 @ BOLT	2
TOTAL WEIGHT LBS				35

TOTAL SECTION WEIGHT -- INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 2493

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:				SECTION ERECTION: 01-20 01-T8300032			
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL				SITE: COUNTY DRIVE, MO			
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						JOB NO. 122944	SIZE: B	DRAWING NO. 122944-S01-1	REV 0
				DATE 05/20/15					
				DRAWN BY RWM					
				CHECKED BY ZAK			SCALE NONE		
							PAGE 1 OF 1		
REV	DATE	DRW/CHK	DESCRIPTION						



ELEVATION VIEW

## LIST OF MATERIAL

### 01-20-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180616	SECT. 1 LEG 2 1/4" X 20'-0 5/16"	1066
TOTAL WEIGHT LBS				1066

### 01-T8300030 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02442	ANGLE, DIAGONAL 2 X 2 X 3/16 X 6'-2 3/4"	379
3	3	TS02410	ANGLE, HORIZONTAL 2 X 2 X 3/16 X 4'-5 3/4"	34
TOTAL WEIGHT LBS				413

### SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	13	C40026048	BOLT ASSEMBLY, 3/4" X 3 1/4" A325	11
TOTAL WEIGHT LBS				11

### TK00134 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	13	C40028023	BOLT ASSEMBLY, 5/8" X 2" A325	6
6	57	C40026022	BOLT ASSEMBLY, 5/8" X 1 3/4" A325	25
7	13	C40047003	RINGFILL, 3/8" THICK - 5/8" BOLT	2
TOTAL WEIGHT LBS				33

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 1523

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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SECTION ERECTION: 01-20 01-T8300030

SITE: COUNTY DRIVE, MO

CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE B	DRAWING NO. 122944-S01-2	REV 0
DATE 05/20/15	DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			



## LIST OF MATERIAL

### 01-15-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180552	SECT. 1 LEG 1 3/4" x 15'-0"	540
TOTAL WEIGHT LBS				540

### 01-T8300021 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	18	TS02433	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/8"	191
3	3	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4"	23
TOTAL WEIGHT LBS				214

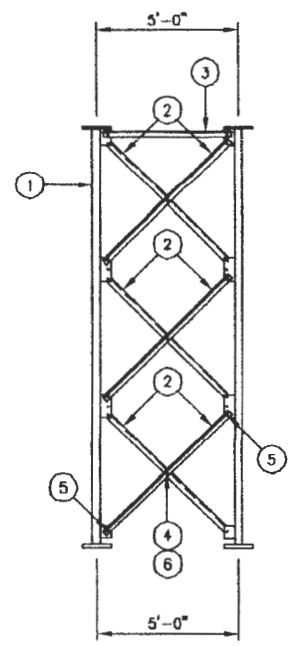
### TK00257 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	10	C40026023	BOLT ASSEMBLY, 5/8" x 2 A325	5
5	45	C40026022	BOLT ASSEMBLY, 5/8" x 1 3/4 A325	20
6	10	C40047003	RINGFILL, 3/8 THICK - 5/8" BOLT	1
TOTAL WEIGHT LBS				26

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 780

### FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

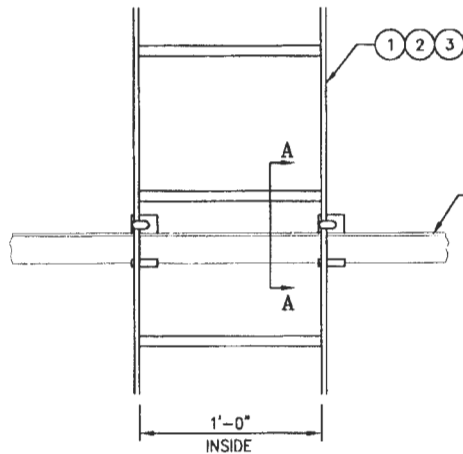


**ELEVATION VIEW**

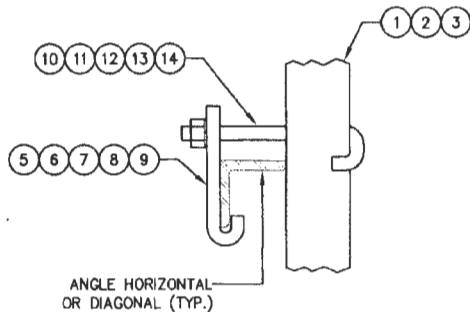
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES</p> <p>TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"</p>	<p>MATERIAL:</p> <p>TOLERANCES DO NOT APPLY TO RAW MATERIAL</p>																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DATE	BY	CHK	DESCRIPTION																																																			<p style="text-align: center;"><b>Sabre Industries</b> Towers and Poles</p> <p style="text-align: center;"><b>CONFIDENTIAL</b></p> <p style="font-size: small;">This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2015 Sabre Communications Corporation. All rights reserved.</p>
REV	DATE	BY	CHK	DESCRIPTION																																																				

**SECTION ERECTION:** 01-15 01-T8300021  
**SITE:** COUNTY DRIVE, MO  
**CUSTOMER:** BOONE COUNTY

JOB NO. 122944	SIZE	DRAWING NO.	REV
DATE 05/20/15	B	122944-S01-3	0
DRAWN BY RWM	CHECKED BY ZAK	SCALE NONE	PAGE 1 OF 1



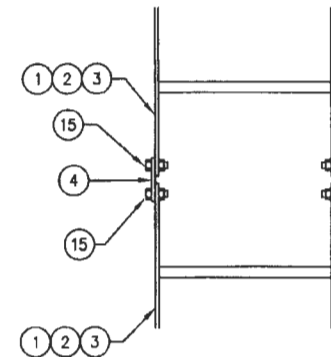
**ELEVATION**  
(TYPICAL MOUNTING DETAIL)



**SECTION A-A**

ANGLE HORIZONTAL SHOWN TYPICAL (CAN BE USED ON ANGLE DIAGONALS)

**NOTE:**  
MAXIMUM SPACING OF LADDER CLIPS UP THE TOWER TO BE  $\pm 10'-0''$ .



**SPLICE DETAIL**

**LIST OF MATERIAL**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CW00031	WELDMNT, 20 FT CLIMBING LADDER	
2.	A/R	CW00029	WELDMNT, 10 FT CLIMBING LADDER	
3.	A/R	CW00028	WELDMNT, 5 FT CLIMBING LADDER	
4.	A/R	CS00037	PLATE, LADDER SPLICE	
5.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)	
6.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES: 3/8" THK. & UNDER)	
7.	A/R	CS00171	CLIP, LADDER ATTACHMENT (1 1/2" - 6" ANGLES)	
8.	A/R	CS00808	CLIP, LADDER ATTACHMENT (4" - 6" ANGLES: 1/2" TO 3/4" THK.)	
9.	A/R	CS01212	CLIP, LADDER ATTACHMENT (8" ANGLES)	
10.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
11.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
12.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
13.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES, 1/2" & 3/4" THK)	
14.	A/R	C40039012	J-BOLT ASSY., 3/8 (8" ANGLES, 1/2" & 3/4" THK)	
15.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
				TOTAL WEIGHT

\*SEE JOB SPECIFIC BILL OF MATERIAL FOR QTY'S.\*

REV	DATE	DRWCHK	DESCRIPTION
1	7/18/97		TOP RIGGING LADDER FOR 55000 11 1/2" W/E ANGLES
2	12/05/98		REVISION TO ADD 1/2" BOLT FOR 4" & 6" ANGLES
3	3/5/02		CHROMIUM PLATE ON 3/8" SIZE & 20000 NEW MATERIAL LIST
4	7/21/03		REVISION TO ADD CLIMBING LADDER ISSUES WITH DIMENSION
5	3/22/03		REVISION TO ADD CLIMBING LADDER TO MATERIALS
6	10/28/04		REVISION TO ADD DIMENSIONS & REMAINING MAT'L TO CATALOG
7	12/17/01		REVISION TO ADD LADDER TO CATALOG & RELATED TO LADDER
8	3/18/01		REVISION TO ADD DIMENSIONS IN AUTOCAD 2000
9	7/28/01		REVISION TO ADD DIMENSIONS TO 30000 & J-BOLT ASSY
10	7/28/01		REVISION TO ADD DIMENSIONS TO 30000 & J-BOLT ASSY

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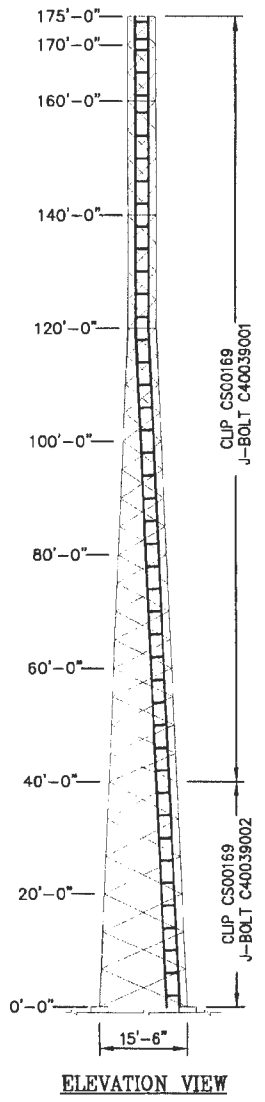
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**TYPICAL CLIMBING LADDER INSTALLATION**  
(STANDARD 12" WIDE LADDER)

DATE	4/18/97	SIZE	B	DRAWING NO.	907812	REV	10
DRAWN BY	ZAK	SCALE	None	PAGE	1	OF	1
CHECKED BY	DLW						





ELEVATION VIEW

WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	16	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	480
2	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30
3	2	CS00149	ANGLE, WAVEGUIDE LADDER RAIL 5 FT. W/3 FT. RUNG SPC	15
4	45	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	171
5	18	CS00037	PLATE, LADDER SPLICE	7
6	40	CS00169	CLIP, LADDER ATTACHMENT	22
TOTAL WEIGHT LBS				725

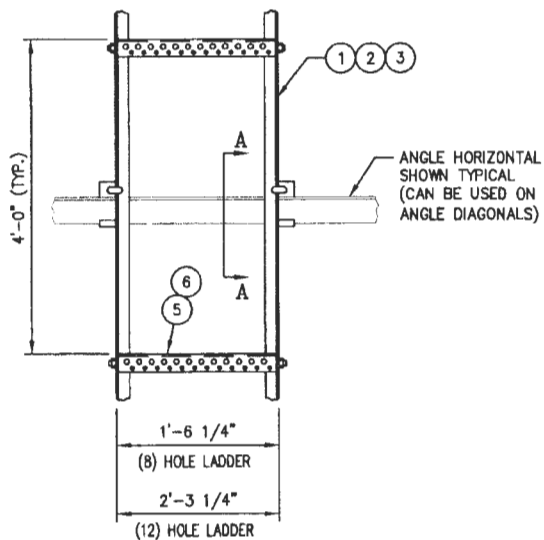
LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	12	C40039002	J-BOLT ASSEMBLY, 3/8" X 7 1/4" I.L.	4
8	28	C40039001	J-BOLT ASSEMBLY, 3/8" X 5 3/4" I.L.	8
9	126	C40024004	BOLT ASSEMBLY, 3/8" X 1 1/2" GRD 5	13
TOTAL WEIGHT LBS				25

**FIELD NOTES**

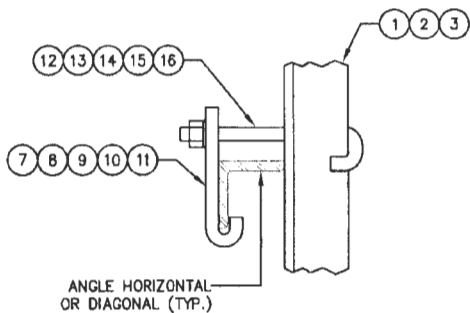
1. FROM ELEVATION 0'-0" TO 40'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL.  
FROM ELEVATION 40'-0" TO 175'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 907338 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.
4. WAVEGUIDE LADDERS ARE NEVER TO BE USED AS A CLIMBING DEVICE.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL:  TOLERANCES DO NOT APPLY TO RAW MATERIAL			W/G LADDER: 175 FT. MODEL S3R-SD		
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			JOB NO. 122944	SIZE: B	DRAWING NO. 122944-WG1	REV 0	
REV	DATE	DRW/CHK	DESCRIPTION	DRAWN BY: DRL	CHECKED BY: ZAK	SCALE: NONE	PAGE: 1 OF 1





**ELEVATION**  
(TYPICAL MOUNTING DETAIL)



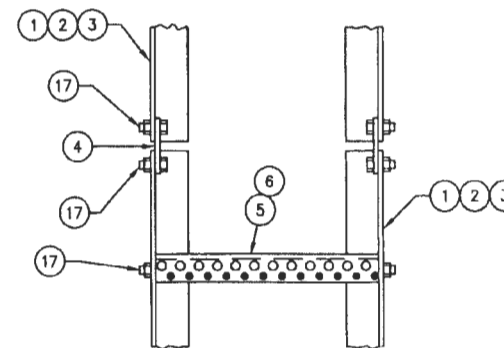
**SECTION A-A**

**NOTE:**  
MAXIMUM SPACING OF LADDER CLIPS  
UP THE TOWER TO BE  $\pm 10'-0"$ .

**LIST OF MATERIAL**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT.	
2.	A/R	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT.	
3.	A/R	CS00149	ANGLE, WAVEGUIDE LADDER RAIL 5 FT.	
4.	A/R	CS00037	PLATE, LADDER SPLICE	
5.	A/R	CS00151	ANGLE WAVEGUIDE SUPPORT (12 HOLE)	
6.	A/R	CS00150	ANGLE WAVEGUIDE SUPPORT (8 HOLE)	
7.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)	
8.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES: 3/8" THK. & UNDER)	
9.	A/R	CS00171	CLIP, LADDER ATTACHMENT (1 1/2" - 6" ANGLES: 1/2" THK. & UNDER)	
10.	A/R	CS00808	CLIP, LADDER ATTACHMENT (4" - 6" ANGLES: 1/2" TO 3/4" THK.)	
11.	A/R	CS01212	CLIP, LADDER ATTACHMENT (8" ANGLES)	
12.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
13.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
14.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
15.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES, 1/2" & 3/4" THK)	
16.	A/R	C40039012	J-BOLT ASSY., 3/8 (8" ANGLES, 1/2" & 3/4" THK)	
17.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
				TOTAL WEIGHT

"SEE JOB SPECIFIC BILL OF MATERIAL FOR QTY'S."



**SPLICE DETAIL**

REV	DATE	DRW/CHK	DESCRIPTION
14	5/17/07	DLW	REVISIONS TO LADDER RAIL
13	5/17/07	DLW	REVISIONS TO LADDER RAIL
12	12/07/06	DLW	REVISIONS TO LADDER RAIL
11	3/25/06	DLW	REVISIONS TO LADDER RAIL
10	2/24/05	DLW	REVISIONS TO LADDER RAIL
9	3/22/03	DLW	REVISIONS TO LADDER RAIL
8	10/25/02	DLW	REVISIONS TO LADDER RAIL
7	10/25/02	DLW	REVISIONS TO LADDER RAIL
6	8/30/01	DLW	REVISIONS TO LADDER RAIL
5	7/18/01	DLW	REVISIONS TO LADDER RAIL
4	5/21/01	DLW	REVISIONS TO LADDER RAIL
3	3/12/01	DLW	REVISIONS TO LADDER RAIL
2	4/25/00	DLW	REVISIONS TO LADDER RAIL
1	5/20/99	DLW	REVISIONS TO LADDER RAIL

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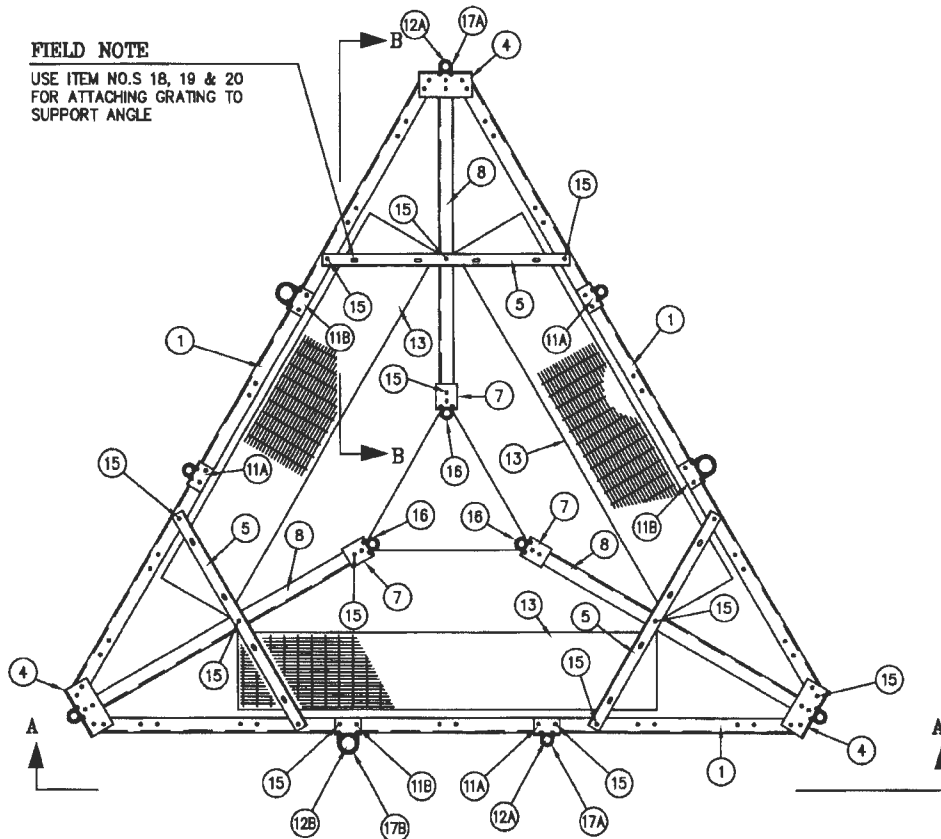
**TYPICAL WAVEGUIDE LADDER INSTALLATION**  
8 & 12 HOLE RUNG - 7/16"Ø & 3/4"Ø

DATE	1/24/97	SIZE	B	DRAWING NO.	907338	REV	14
DRAWN BY	DLW	CHECKED BY	DEL	SCALE	None	PAGE	1 OF 1



**FIELD NOTE**

USE ITEM NO.S 18, 19 & 20 FOR ATTACHING GRATING TO SUPPORT ANGLE



**PLAN VIEW**

SEE SHEET 2 OF 2 FOR SECTIONS A-A & B-B.

**NOTES:**

1. TOTAL APPROXIMATE WEIGHT: 2310 LBS. (GALV.)

CK00015 FIXED PLATFORM ANGLE KIT				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
1.	3	CS00321	ANGLE, TOP CHORD	CS00321
2.	3	CS00322	ANGLE, BOTTOM CHORD	CS00322
3.	18	CS00323	ANGLE, DIAGONAL	CS00323
4.	6	CS00320	ANGLE, CORNER SUPPORT (SHORT)	CS00320
5.	6	CS00324	ANGLE, CORNER SUPPORT (LONG)	CS00324
6.	9	CS00319	ANGLE, VERTICAL (BOOM)	CS00319

MISCELLANEOUS FRAMING MATERIAL				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
7.	6	CS00416	ANGLE, LEG MOUNT	CS00416
8.	3	CS00311	ANGLE, TOP CHORD (BOOM)	CS00311
9.	3	CS00314	ANGLE, BOTTOM CHORD (BOOM)	CS00314
10.	6	CS00317	ANGLE, DIAGONAL (BOOM)	CS00317

ANTENNA MOUNTING PIPE				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
11A.	6	CS00265	ANGLE, PIPE MOUNT 2 3/8" PIPE	CS00265
11B.	6	CS03297	ANGLE, PIPE MOUNT 4 1/2" PIPE	CS03297
12A.	6	---	ANTENNA MTG. PIPE, 2 3/8" X 10'-0"	C10981224
12B.	3	---	ANTENNA MTG. PIPE, 4 1/2" X 7'-0"	C10981407

PLATFORM GRATING				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
13.	3	C20137005	PLATFORM GRATING	C20137005

HARDWARE				
ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
14.	66	---	BOLT ASSEMBLY, 5/8" X 1 3/4" A325	C40026022
15.	90	---	BOLT ASSEMBLY, 5/8" X 2" A325	C40026023
16.	12	---	U-BOLT ASSEMBLY 5/8" X 2 7/16 C-C	C40034021
17A.	12	---	U-BOLT ASSEMBLY 5/8" X 3 1/16" C/C	C40034023
17B.	6	---	U-BOLT ASSEMBLY 5/8" X 5 3/16" C/C	C40034032
18.	12	---	BOLT ASSEMBLY, 3/8" X 3 3/4" GRD 5	C40024013
19.	12	---	FLATWASHER, 3/8"	C40031001
20.	12	---	FENDER WASHER, 3/8" X 1 1/2" X .097	C40046001

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS INCLUDE  
FINISHES AND ARE IN INCHES  
TOLERANCES: FRACTIONS ± 1/16"  
ANGLES ± 1/2 DEG.  
DECIMALS ± .010"

MATERIAL:  
REFERENCE ORIGINAL  
PLATFORM 002898  
TOLERANCES DO NOT APPLY  
TO RAW MATERIAL



**FIXED PLATFORM: 175' ELEVATION**

**SITE: COUNTY DRIVE, MO**

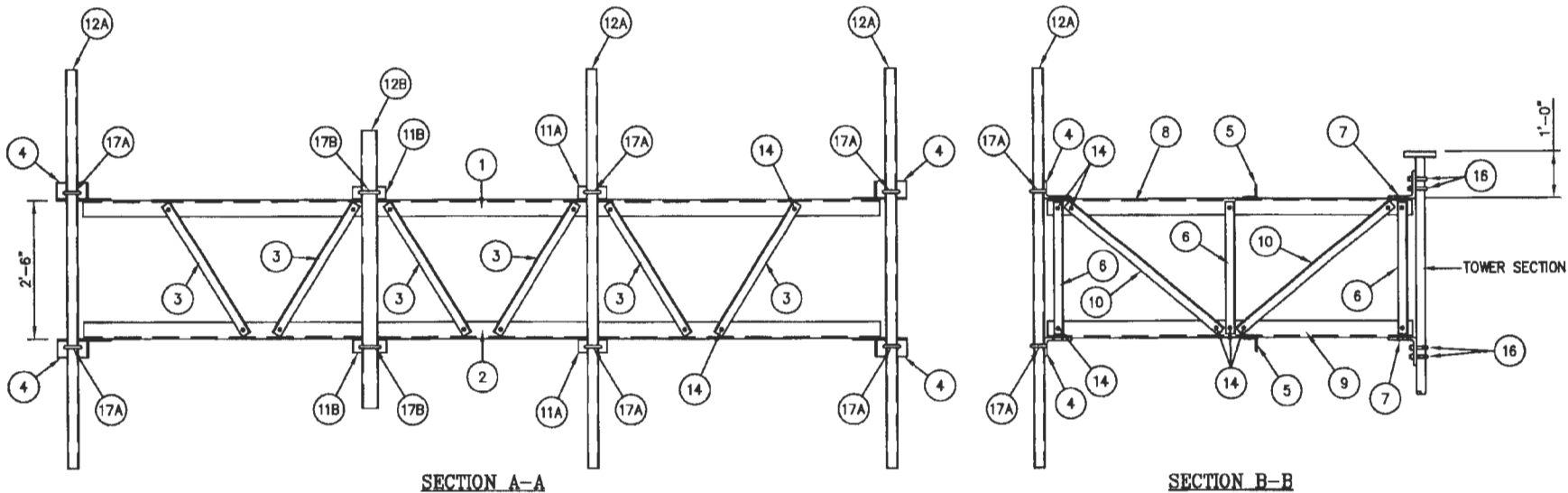
**CUSTOMER: BOONE COUNTY**

REV	DATE	BY/CHK	DESCRIPTION

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JOB NO. 122944	SIZE B	DRAWING NO. 122944-FP	REV 0
DATE 10/8/15	DRAWN BY RWM	CHECKED BY MWR	SCALE NONE
PAGE 1 OF 2		PAGE 1 OF 2	

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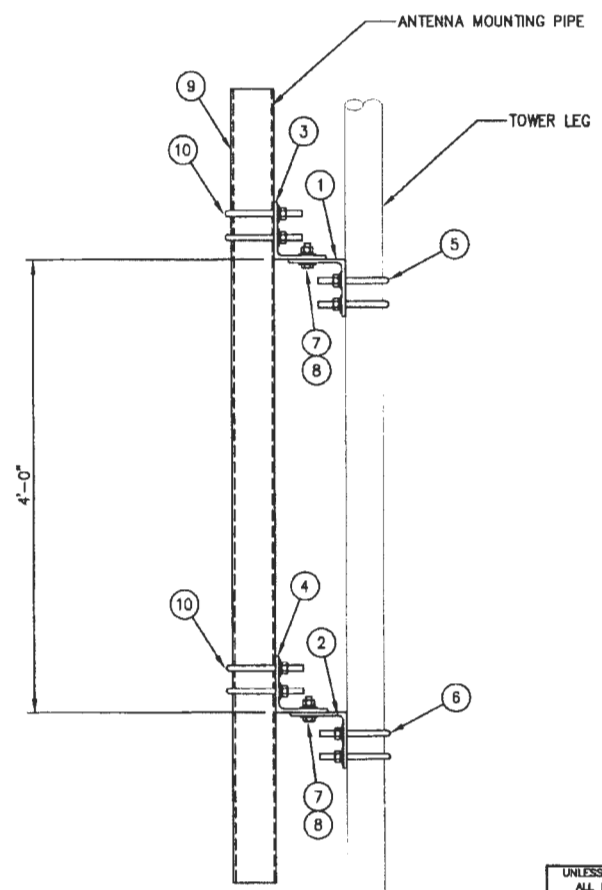


UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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FIXED PLATFORM: 175' ELEVATION		DRAWING NO.		REV
SITE: COUNTY DRIVE, MO		122944-FP		0
CUSTOMER: BOONE COUNTY		JOB NO. 122944	SIZE	
DATE	10/8/15	B		
DRAWN BY	RWM			
CHECKED BY	MWR			
			SCALE	PAGE
			NONE	2 OF 2



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173003				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 1 3/4" LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 1 3/4" LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2" PIPE	15
5.	2	C40034021	U-BOLT ASSEMBLY 5/8" X 2 7/16" C-C (TOP LEG MOUNT)	3
6.	2	C40034021	U-BOLT ASSEMBLY 5/8" X 2 7/16" C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" (F436)	1
KIT WEIGHT LBS				69

LIST OF ADDITIONAL MATERIALS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16" C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67

TOTAL WEIGHT LBS	136
------------------	-----

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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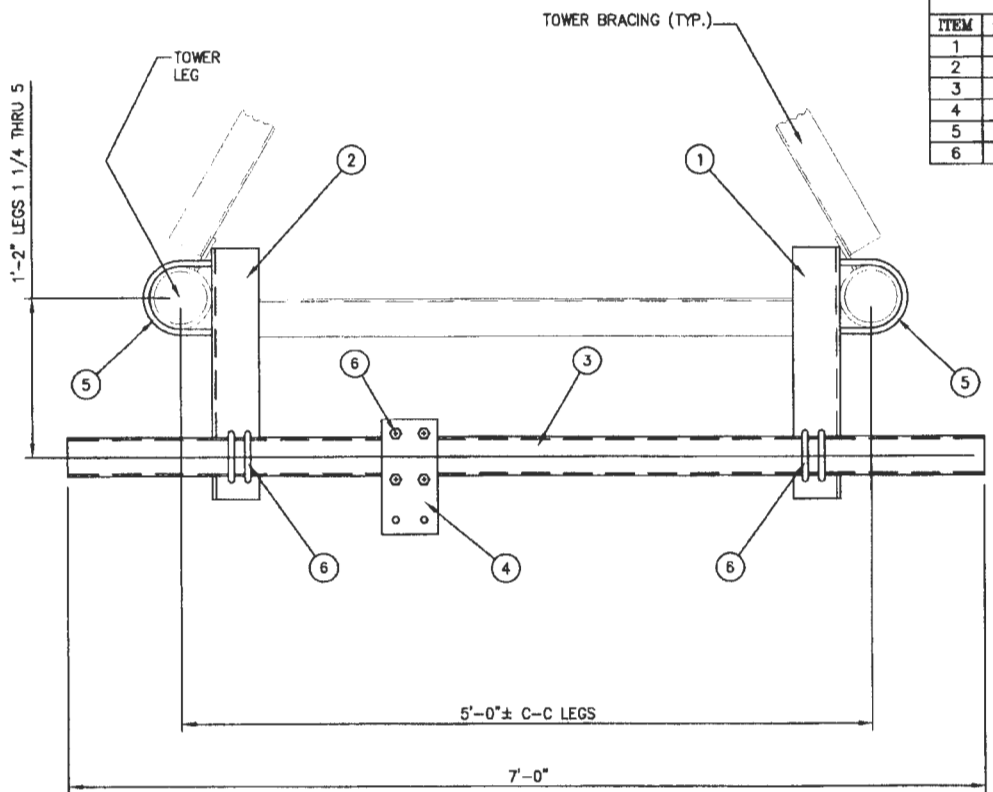
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PIPE MOUNTS: 175' & 165' ELEVATIONS			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM1	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
PAGE 1		OF 1	



C10105019 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" THRU 5" LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" THRU 5" LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2 X 3 1/2" X 3/16 X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034021	U-BOLT ASSEMBLY 5/8" X 2 7/16 C-C	5
6	6	C40035003	U-BOLT ASSEMBLY 5/8" X 4 1/4 C-C	11
TOTAL WEIGHT LBS				131



PLAN VIEW

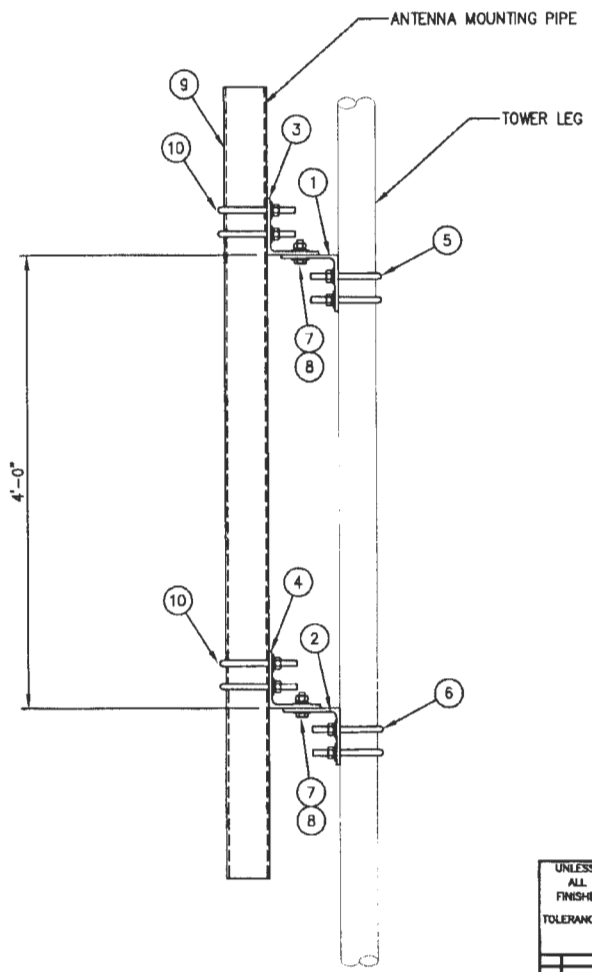
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION



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STIFFARM MOUNT: 165' ELEVATION			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-DT1	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
PAGE 1		OF 1	



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173009				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2 1/4" LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2 1/4" LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2" PIPE	15
5.	2	C40034023	U-BOLT ASSEMBLY 5/8" X 3 1/16" C-C (TOP LEG MOUNT)	3
6.	2	C40034023	U-BOLT ASSEMBLY 5/8" X 3 1/16" C-C (BOTTOM LEG MOUNT)	3
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" (F436)	1
KIT WEIGHT LBS				69

LIST OF ADDITIONAL MATERIALS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16" C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67

TOTAL WEIGHT LBS 136

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

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Towers and Poles

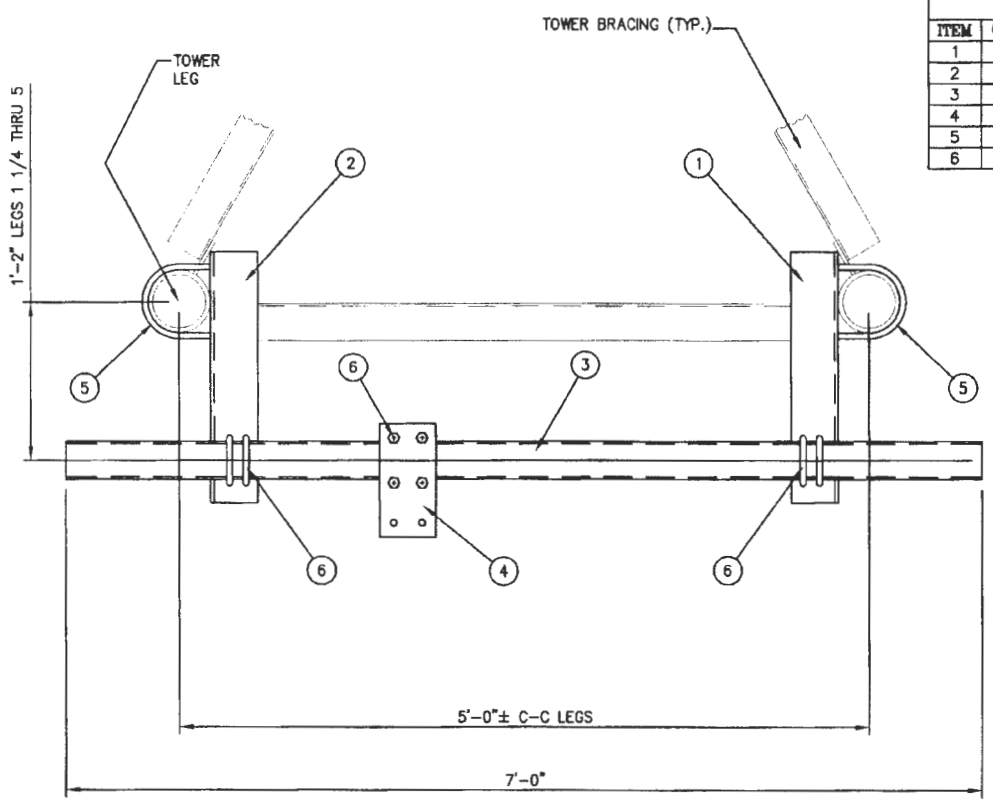
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PIPE MOUNTS: 150' ELEVATION			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM2	REV 0
DATE 08/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1		PAGE 1 OF 1	



C10105021 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2" X 3 1/2" X 3/16" X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034023	U-BOLT ASSEMBLY 5/8" Ø X 3 1/16" C-C	7
6	6	C40035003	U-BOLT ASSEMBLY 5/8" Ø X 4 1/4" C-C	11
TOTAL WEIGHT LBS				133



PLAN VIEW

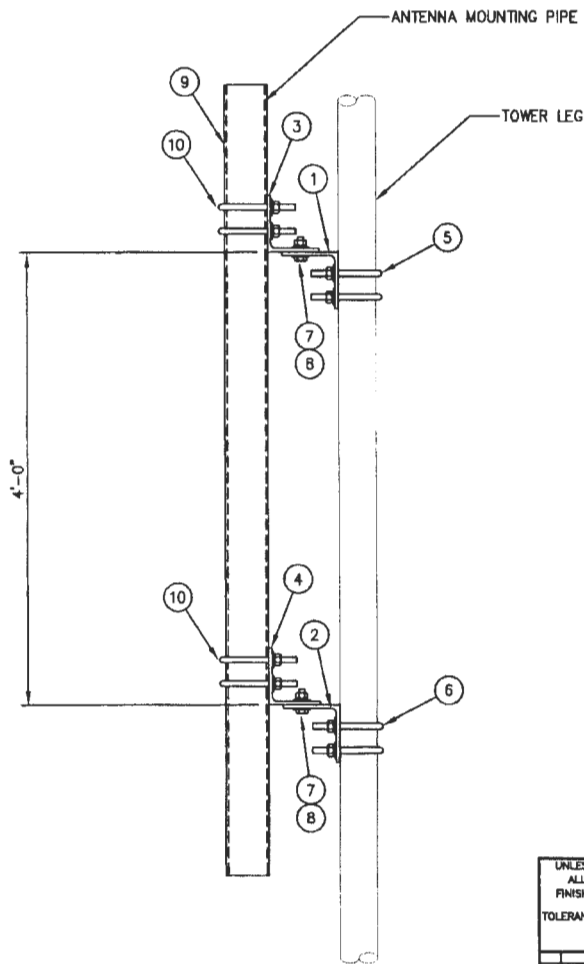
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:		
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL		
REV	DATE	DRW/CHK	DESCRIPTION		

**Sabre Industries**  
Towers and Poles

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STIFFARM MOUNT: 150' ELEVATION			
SITE: COUNTY DRIVE, MO			
CUSTOMER: BOONE COUNTY			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-DT2	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE PAGE 1 OF 1



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173021				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3"Ø LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 3"Ø LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2"Ø PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 4 1/2"Ø PIPE	15
5.	2	C40034026	U-BOLT ASSEMBLY 5/8" X 3 11/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034026	U-BOLT ASSEMBLY 5/8" X 3 11/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8"Ø (F436)	1
KIT WEIGHT LBS				71

LIST OF ADDITIONAL MATERIALS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67

TOTAL WEIGHT LBS	138
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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

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PIPE MOUNTS: 135' ELEVATION  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

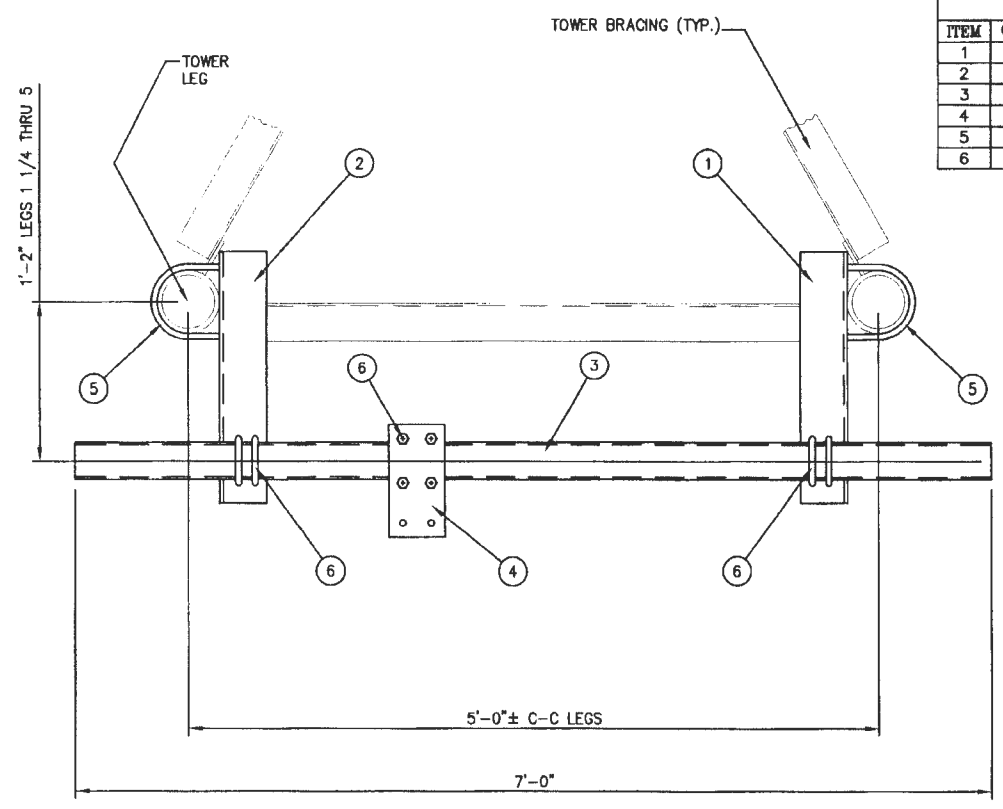
JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM3	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
		PAGE 1	OF 1





C10105024 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4 $\phi$ THRU 5 $\phi$ LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4 $\phi$ THRU 5 $\phi$ LEG	24
3	1	CS00509	TUBE, STIFFARM 3 1/2 X 3 1/2" X 3/16 X 7'-0"	59
4	1	CS00502	PLATE, STIFFARM	8
5	4	C40034026	U-BOLT ASSEMBLY 5/8 $\phi$ X 3 11/16 C-C	7
6	6	C40035003	U-BOLT ASSEMBLY 5/8 $\phi$ X 4 1/4 C-C	11
TOTAL WEIGHT LBS				133



PLAN VIEW

NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL				<b>STIFFARM MOUNT: 135' ELEVATION</b> <b>SITE: COUNTY DRIVE, MO</b> <b>CUSTOMER: BOONE COUNTY</b>			
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REV	DATE	DRW/CHK	DESCRIPTION						



**C10151103 3 FT. SIDEARM ASSEMBLY**

(1)	CK00060	SIDEARM ANGLE KIT	78
(1)	---	MISC HARDWARE (FRAMING)	4
(1)	C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8 ø X 5'-0	19
(4)	C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS			110

**CK00060 KIT LIST OF MATERIAL**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CS00067	ANGLE, BOOM SUPPORT	23
2	1	CS01223	ANGLE, TOP CHORD	19
3	1	CS01224	ANGLE, BOTTOM CHORD	19
4	1	CS00065	ANGLE, VERTICAL	8
5	1	CS01228	ANGLE, DIAGONAL	9
TOTAL WEIGHT LBS				78

**MISC HARDWARE (FRAMING)**

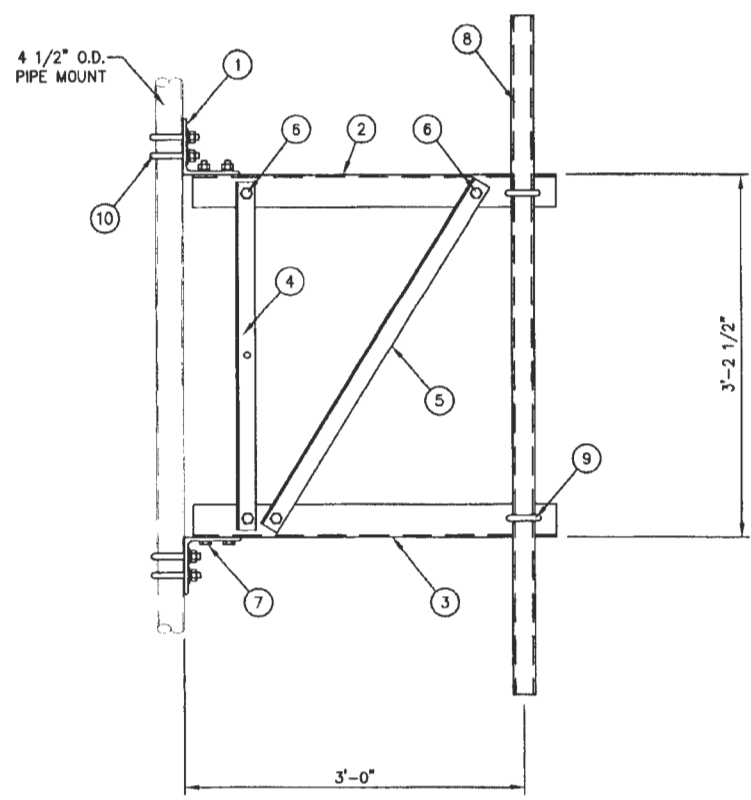
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	4	C40026022	BOLT ASSEMBLY, 5/8 ø X 1 3/4 A325	2
7	4	C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	2
TOTAL WEIGHT LBS				4

**C10900105 ANTENNA PIPE MOUNTING KIT**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	1	C10981223	ANTENNA MTG. PIPE 2 3/8 ø X 5'-0	16
9	2	C40034023	U-BOLT ASSEMBLY 5/8 ø X 3 1/16 C-C	3
TOTAL WEIGHT LBS				19

**MISC HARDWARE**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
10	4	C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS				9

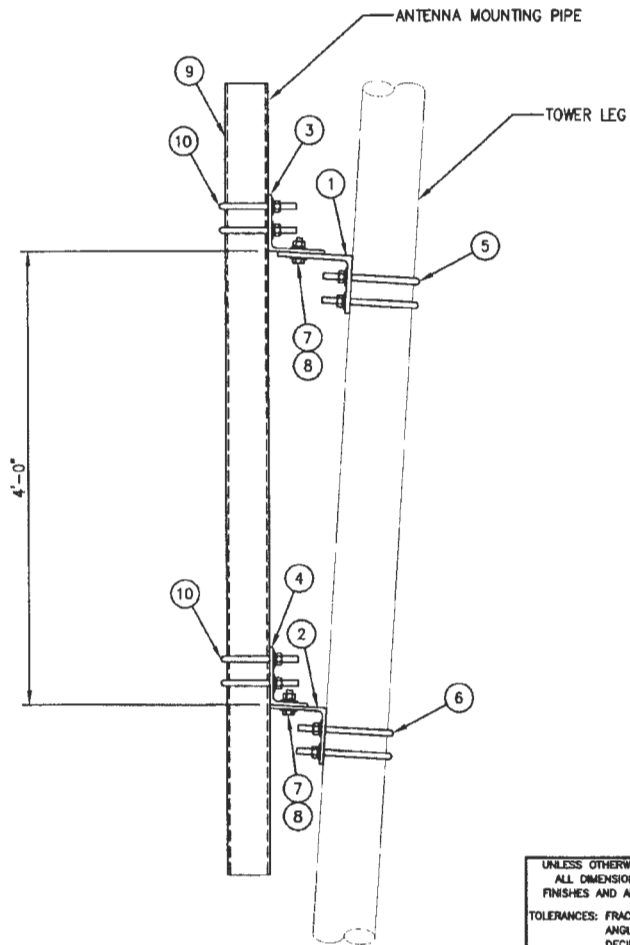


**ELEVATION VIEW**

**NOTES:**

- IF THE MOUNT IS NOT ON THE STRAIGHT PORTION OF THE TOWER SEE SITE SPECIFIC PIPE MOUNT.
- QUANTITIES SHOWN IN LIST OF MATERIALS ARE FOR ONE (1) SIDEARM ASSEMBLY ONLY.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL				<b>3 FT. SIDEARMS: 100', 50' &amp; 30' ELEVATIONS</b> <b>SITE: COUNTY DRIVE, MO</b> <b>CUSTOMER: BOONE COUNTY</b>			
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REV	DATE	DRW/CHK	DESCRIPTION						



ELEVATION VIEW

LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174028

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3 1/4" LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 3 1/2" LEG	12
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" PIPE	15
4.	1	CS00215	BOTTOM PIPE MOUNT FOR 4 1/2" PIPE	12
5.	2	C40034027	U-BOLT ASSEMBLY 5/8" X 3 15/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034028	U-BOLT ASSEMBLY 5/8" X 4 3/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" (F436)	1
KIT WEIGHT LBS				65

LIST OF ADDITIONAL MATERIALS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				132

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS INCLUDE  
FINISHES AND ARE IN INCHES  
TOLERANCES: FRACTIONS ± 1/16"  
ANGLES ± 1/2 DEG.  
DECIMALS ± .010"

MATERIAL:  
TOLERANCES DO NOT APPLY  
TO RAW MATERIAL

**Sabre Industries**  
Towers and Poles

PIPE MOUNTS: 100' ELEVATION  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

REV	DATE	DRW/CHK	DESCRIPTION

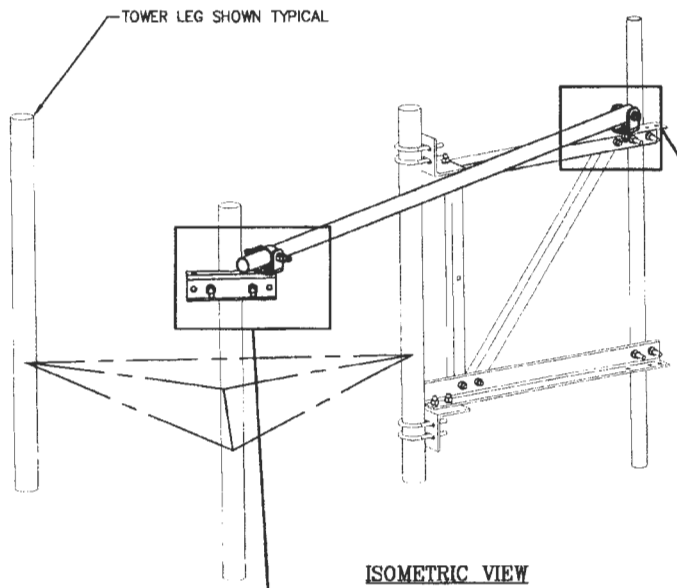
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JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM4	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	

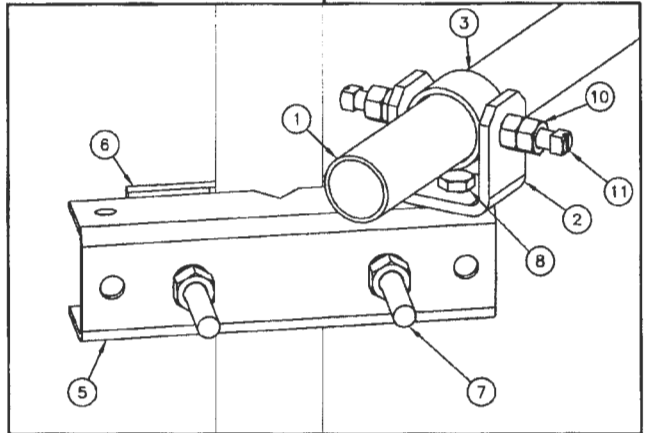
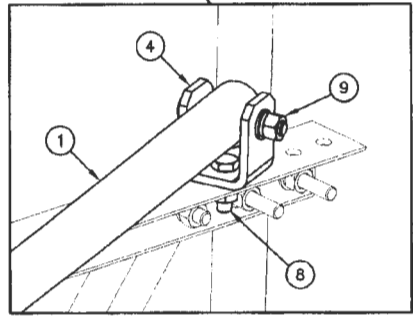


**C10179002 SWIVEL KNUCKLE TIEBACK KIT**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	1	CS02089	PIPE, 2 3/8" O.D. X 0.148 X 13'-3	43
2.	1	CW00013	SWIVEL PLATE WELDMENT	3
3.	1	CS00097	PIPE, 2 7/8" O.D. X 0.203 X 0'-1 3/4	1
4.	1	CS00098	BENT SWIVEL PLATE	3
5.	1	CS01360	PLATE, MOUNTING BRACKET (FORMED CHANNEL)	9
6.	1	CS01361	PLATE, 2 HOLE ADAPTER CLAMP	3
7.	2	C40140001	BOLT ASSEMBLY, 3/4 X 10 A307 W/NUT, LKW, FLW	4
8.	2	C40026023	BOLT ASSEMBLY, 5/8 X 2 A325	1
9.	1	C40026033	BOLT ASSEMBLY, 5/8 X 4 1/2 A325	1
10.	2	C40042007	HEX NUT, 5/8 A194 2H	1
11.	2	C40998007	SQ. HEAD SET SCREW, 5/8 X 2 1/2	1
<b>TOTAL WEIGHT</b>				<b>70</b>



**ISOMETRIC VIEW**



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION

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Towers and Poles

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<b>SWIVEL KNUCKLE TIEBACKS: 100' ELEVATION</b>			
<b>SITE: COUNTY DRIVE, MO</b>			
<b>CUSTOMER: BOONE COUNTY</b>			
JOB NO. 122944	SIZE B	DRAWING NO. 122944-ST1	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
PAGE 1 OF 1			



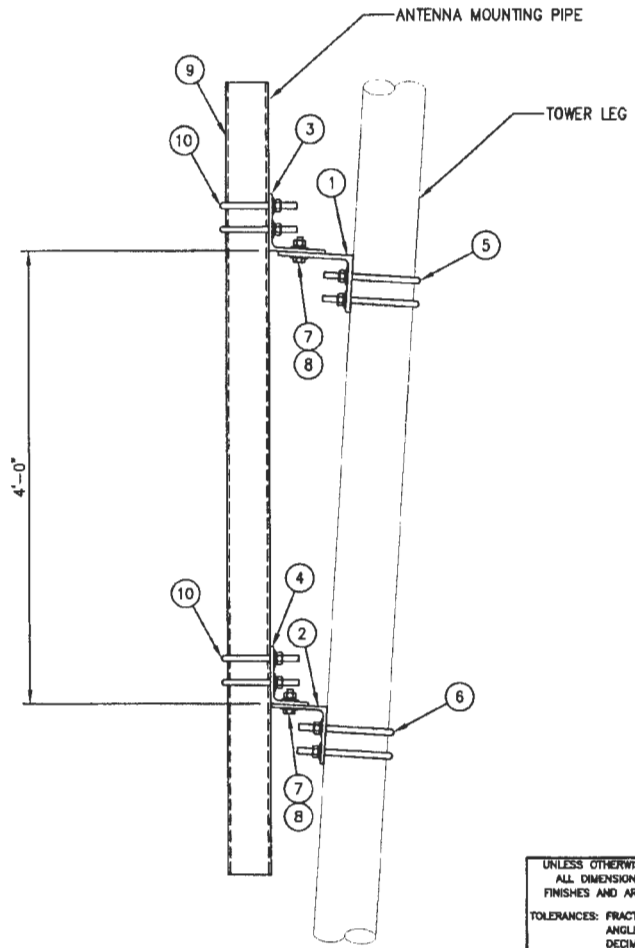
LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174032

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3 3/4" LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 3 3/4" LEG	12
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" PIPE	15
4.	1	CS00215	BOTTOM PIPE MOUNT FOR 4 1/2" PIPE	12
5.	2	C40034029	U-BOLT ASSEMBLY 5/8" X 4 7/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034029	U-BOLT ASSEMBLY 5/8" X 4 7/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" (F436)	1
KIT WEIGHT LBS				65

LIST OF ADDITIONAL MATERIALS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67

TOTAL WEIGHT LBS 132



ELEVATION VIEW

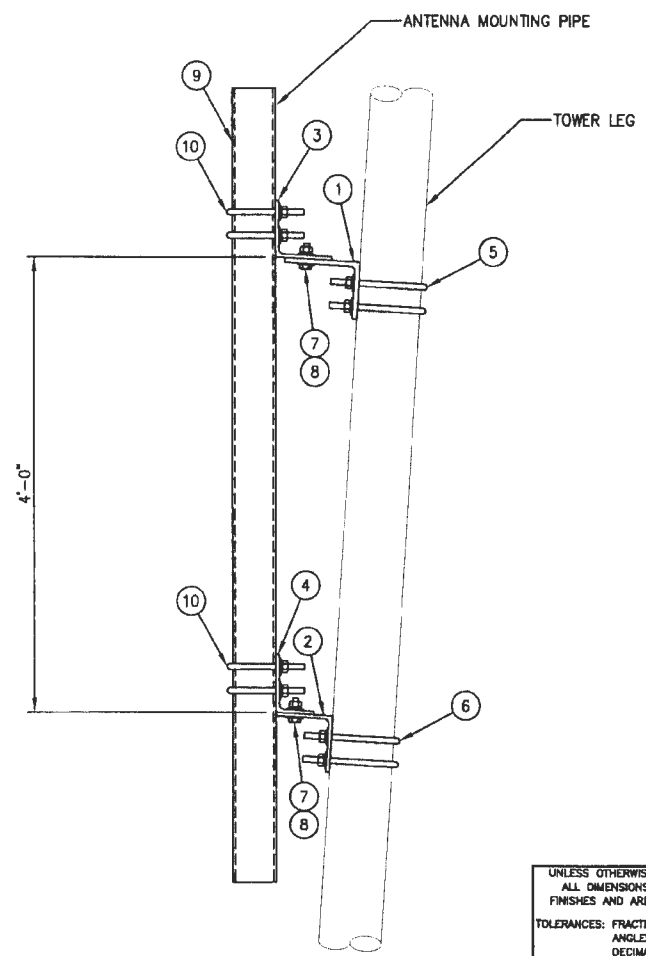
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL	
REV	DATE	DRW/CHK	DESCRIPTION



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PIPE MOUNTS: 50' ELEVATIONS  
SITE: COUNTY DRIVE, MO  
CUSTOMER: BOONE COUNTY

JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM5	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	



**LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174039**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 4 1/4" LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 4 1/4" LEG	12
3.	1	CS00214	TOP PIPE MOUNT FOR 4 1/2" PIPE	15
4.	1	CS00215	BOTTOM PIPE MOUNT FOR 4 1/2" PIPE	12
5.	2	C40034031	U-BOLT ASSEMBLY 5/8" X 4 15/16 C-C (TOP LEG MOUNT)	4
6.	2	C40034031	U-BOLT ASSEMBLY 5/8" X 4 15/16 C-C (BOTTOM LEG MOUNT)	4
7.	4	C40026024	BOLT ASSEMBLY, 5/8" X 2 1/4" A325	2
8.	8	C40031003	FLATWASHER, 5/8" (F436)	1
KIT WEIGHT LBS				65

**LIST OF ADDITIONAL MATERIALS**

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" X 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				132

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

**Sabre Industries**  
Towers and Poles

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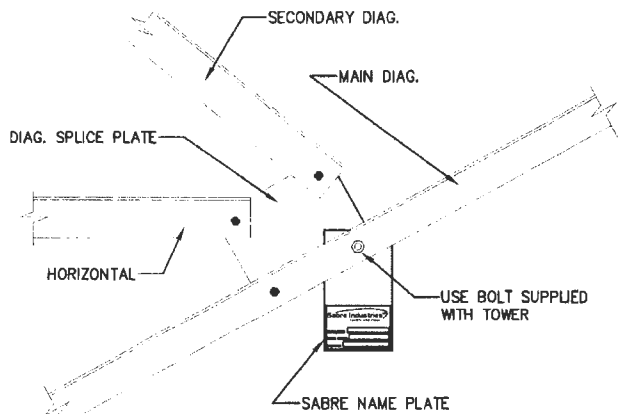
**PIPE MOUNTS: 30' ELEVATIONS**  
**SITE: COUNTY DRIVE, MO**  
**CUSTOMER: BOONE COUNTY**

JOB NO. 122944	SIZE B	DRAWING NO. 122944-PM6	REV 0
DATE 06/08/15	DRAWN BY DRL	CHECKED BY ZAKV	SCALE NONE
		PAGE 1 OF 1	

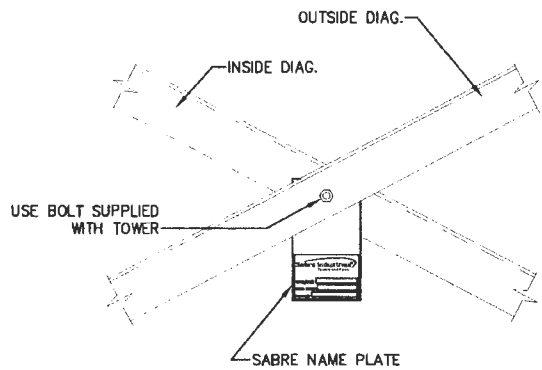
BOLT INSTALLATION DETAILS:

1. INSTALLATION OF BOLTS: BOLTS FOR TOWERS AND ANTENNAS SHALL BE INSTALLED WITH THE NUTS FACING TO THE OUTSIDE AND/OR TO THE TOP OF THE TOWER, UNLESS PROHIBITED BY LACK OF CLEARANCE.
2. TIGHTENING OF BOLTS: ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION, AS DEFINED BY AISC.
3. NUT LOCKING DEVICE: ALL NUTS SHALL BE EQUIPPED WITH SOME TYPE OF NUT LOCKING DEVICE. SEE THE INDIVIDUAL DRAWINGS FOR THE TYPE OF NUT LOCKING DEVICE TO BE USED FOR EACH INDIVIDUAL APPLICATION.

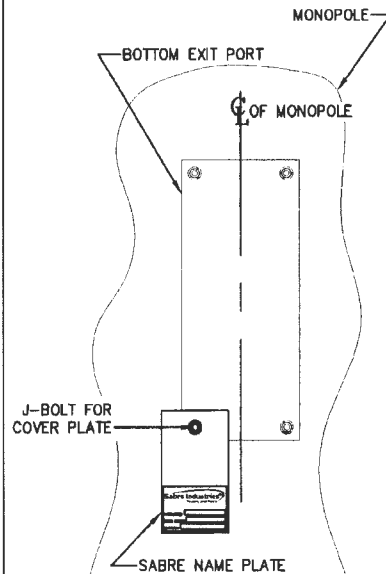
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:				<b>BOLT INSTALLATION DETAILS</b>				
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL				<b>CONFIDENTIAL</b> This document and the information contained herein is the confidential trade secret property of Sabre Communications Corporation ("Sabre") and must not be reproduced, copied or used, in whole or in part, for any purpose without the prior written consent of Sabre. © 2007 Sabre Communications Corporation. All rights reserved.		DATE	01/28/00	SIZE
REV	DATE	DRW/CHK	DESCRIPTION			B	9014671		None	PAGE 1 OF 1
3	02/15/00	KJL/DLW	REVISED PER REVISED INITIAL							
2	03/04/00	PSS/JAZ	REDRAWN ONTO B SIZE INTERLOCK							
1	03/08/00	KJW/PSS	REDRAWN IN AUTOCAD 2000							
CHECKED BY						KJT/DLW				



TYPICAL FOR MODEL S3TL, S4TL, S3R & S4R  
SELF-SUPPORTING TOWER  
(K-BRACE)

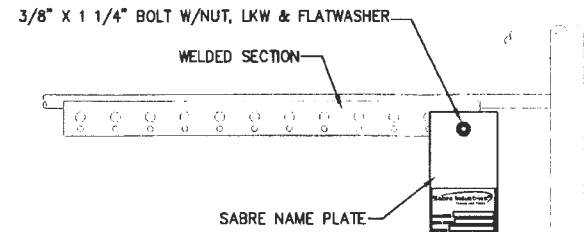


TYPICAL FOR MODEL S3TL, S4TL, S3R & S4R  
SELF-SUPPORTING TOWER  
(X-BRACE)

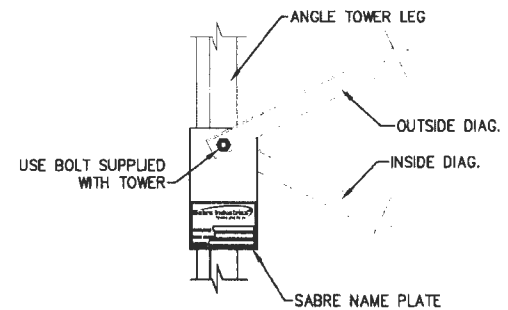


TYPICAL FOR MONOPOLE  
STRUCTURE

**NOTE:**  
NAME PLATE SHOULD BE MOUNTED AT  
APPROXIMATELY EYE LEVEL WHEN POSSIBLE.



TYPICAL FOR MODEL 2400 / 3600 / 4400 / 4800 / 6000  
WELDED GUYED TOWER



TYPICAL FOR MODEL 3000 / 3600 / 4800  
ANGLE GUYED TOWER

REV	DATE	DRW/CHK	DESCRIPTION
1	04/16/97	DEM/RF	DESIGNS REDRAWN WITH NEW TITLE BLOCK
2	10/27/01	DEM/RF	DESIGNS REDRAWN IN AUTOCAD 2000
3	09/22/02	DEM/RF	REVISION REQUEST FOR 4800 WELDED TOWER WAS 3/8 X 1/4
4	11/21/02	DEM/RF	DESIGNS ADDED 2400 WELDED GUYED TOWER
5	3/30/04	DEM/RF	DESIGNS ADDED S3R & S4R TO S.S. TOWER
6	8/18/11	DEM/RF	DESIGNS ADDED 4800 & 6000 WELDED GUYED TOWER

**Sabre Industries**  
Towers and Poles

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OPTIONAL MOUNTING INSTALLATION SABRE NAME PLATE			
DATE	SIZE	DRAWING NO.	REV
10/15/96	B	906956	6
DRAWN BY	CHECKED BY	SCALE	PAGE
DEM	RGF	None	1 OF 1







CUSTOMER BOONE COUNTY  
 SITE COUNTY DRIVE, MO  
 B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE OR=ORANGE  
 PLT=PALLET WH=WHITE  
 BDL=BUNDLE O/W=OR & WH  
 CRT=CRATE N/R=NOT REQ'D  
 D=DRUM SP=SPECIAL  
 BX=BOX

PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>PRESHIP</u>					
2.	18	C40041060	0	C40041060	ANCHOR BOLT ASSEMBLY, 1 1/2 $\phi$ X 6'-6 (F 1554 GR 105) RED	857				
3.					W/(5) NUTS 1 1/2 HEAVY HEX (A563 DH)					
4.					(2) FLATWASHERS 1 1/2 (F436)					
5.	6	C30139210	0	C30139210	PLATE, ANCHOR BOLT TEMPLATE 1 1/2" $\phi$ A.B. ON 10 1/4" $\phi$ B.C.	70				
6.										
7.					<u>LEG TO LEG TEMPLATE MATERIAL</u>					
8.					<u>(SEE DRAWING #9031085)</u>					
9.	3	C30139237	0	C30139237	PLATE, ANCHOR BOLT TEMPLATE, 1 1/2" $\phi$ A.B. ON A 10 1/4" $\phi$ B.C.	97	N/R			
10.	3	C30139413	0	C30139413	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 10'-0	111	N/R			
11.	6	C30139414	0	C30139414	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 2'-4 3/4	53	N/R			
12.	3	C30139443	0	C30139443	ANGLE, TEMPLATE SUPPORT, 2 1/2 X 2 1/2 X 3/16 X 7'-3	67	N/R			
13.	15			C40026023	BOLT ASSEMBLY, 5/8 $\phi$ X 2 A325	7				
14.	20			C40026022	BOLT ASSEMBLY, 5/8 $\phi$ X 1 3/4 A325	9				
15.										
16.										
17.										
18.										
19.										
20.										

					DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
					DRAWN BY	<u>RWM</u>	PRINT NO.	<u>BOM-1</u>
					CHECKED BY	<u>ZAK</u>	PAGE	<u>1</u> OF <u>20</u>
1	10/8/15	RWM/MWR	REVISED MATERIAL ON PAGES 15, 16 AND 20.					
REV	DATE	DRW	CHK	DESCRIPTION				



CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER LEGS</u>					
2.	3	07-T1181048	0	07-T1181048	SECT. 7 LEG 4 1/2 ø X 20'-0 5/16	3923	N/R			
3.	3	06-T1181040	0	06-T1181040	SECT. 6 LEG 4 1/4 ø X 20'-0 5/16	3495	N/R			
4.	3	05-T1180944	0	05-T1180944	SECT. 5 LEG 3 3/4 ø X 20'-0 5/16	2735	N/R			
5.	3	04-T1180944	0	04-T1180944	SECT. 4 LEG 3 3/4 ø X 20'-0 5/16	2735	N/R			
6.	3	03-T1180846	0	03-T1180846	SECT. 3 LEG 3 1/2 ø X 20'-0 5/16	2337	N/R			
7.	3	02-T1180738	0	02-T1180738	SECT. 2 LEG 3 1/4 ø X 20'-0 5/16	2038	N/R			
8.	3	01-T1180632	0	01-T1180632	SECT. 1 LEG 3 ø X 20'-0 5/16	1754	N/R			
9.	3	01-T1180616	0	01-T1180616	SECT. 1 LEG 2 1/4 ø X 20'-0 5/16	1066	N/R			
10.	3	01-T1180552	0	01-T1180552	SECT. 1 LEG 1 3/4 ø X 15'-0	540	N/R			
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
				DRAWN BY	<u>RWM</u>	PRINT NO.	<u>BOM-1</u>
				CHECKED BY	<u>ZAK</u>	PAGE	<u>2</u> OF <u>20</u>



CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE OR=ORANGE  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					TOWER BRACING					
2.	1 KIT				BRACING #07-T8300070 SECTION 07	1054				
3.					CONSISTING OF THE MATERIAL LISTED BELOW					
4.	6	TS02581	0	TS02581	ANGLE, DIAGONAL 3 X 3 X 3/16 X 15'-8 1/16	362	N/R			
5.	6	TS02582	0	TS02582	ANGLE, DIAGONAL 3 X 3 X 3/16 X 15'-2 1/16	352	N/R			
6.	6	TS02583	0	TS02583	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-8	340	N/R			
7.					SPLICE BOLTS TOP OF SECTION 07					
8.	19			C40026115	BOLT ASSEMBLY, 1 1/2 ø X 6 1/2 A325	115				
9.	1 KIT				HARDWARE #TK00260 SECTION 07	36				
10.					CONSISTING OF THE MATERIAL LISTED BELOW					
11.	10			C40026044	BOLT ASSEMBLY, 3/4 ø X 2 1/4 A325	7				
12.	38			C40026043	BOLT ASSEMBLY, 3/4 ø X 2 A325	27				
13.	10			C40047009	RINGFILL, 1/2 THICK - 3/4 ø BOLT	2				
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	05/20/15	JOB NO.	122944
				DRAWN BY	RWM	PRINT NO.	BOM-1
				CHECKED BY	ZAK	PAGE	3 OF 20



CUSTOMER BOONE COUNTY  
 SITE COUNTY DRIVE, MO  
 B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE OR=ORANGE  
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 BDL=BUNDLE O/W=OR & WH  
 CRT=CRATE N/R=NOT REQ'D  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #06-T8300064 SECTION 06</u>	943				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	6	TS02563	0	TS02563	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-0 7/8	326	N/R			
5.	6	TS02564	0	TS02564	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-6 15/16	314	N/R			
6.	6	TS02565	0	TS02565	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-1 1/16	303	N/R			
7.					<u>SPLICE BOLTS TOP OF SECTION 06</u>					
8.	19			C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69				
9.	1 KIT				<u>HARDWARE #TK00260 SECTION 06</u>	36				
10.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
11.	10			C40026044	BOLT ASSEMBLY, 3/4 ø X 2 1/4 A325	7				
12.	38			C40026043	BOLT ASSEMBLY, 3/4 ø X 2 A325	27				
13.	10			C40047009	RINGFILL, 1/2 THICK - 3/4 ø BOLT	2				
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
				DRAWN BY	<u>RWM</u>	PRINT NO.	<u>BOM-1</u>
				CHECKED BY	<u>ZAK</u>	PAGE	<u>4</u> OF <u>20</u>



CUSTOMER BOONE COUNTY  
 SITE COUNTY DRIVE, MO  
 B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE OR=ORANGE  
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 CRT=CRATE N/R=NOT REQ'D  
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #05-T8300060 SECTION 05</u>	1160				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	6	TS02549	0	TS02549	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-10 15/16	305	N/R			
5.	6	TS02550	0	TS02550	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-6 1/4	295	N/R			
6.	6	TS02551	0	TS02551	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 11'-1 5/8	285	N/R			
7.	6	TS02552	0	TS02552	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 1/4 X 10'-9	275	N/R			
8.					<u>SPLICE BOLTS TOP OF SECTION 05</u>					
9.	19			C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69				
10.	1 KIT				<u>HARDWARE #TK00259 SECTION 05</u>	32				
11.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
12.	13			C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7				
13.	50			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	23				
14.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
				DRAWN BY	<u>RWM</u>	PRINT NO.	<u>BOM-1</u>
				CHECKED BY	<u>ZAK</u>	PAGE	<u>5</u> OF <u>20</u>



CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE      OR=ORANGE  
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 CRT=CRATE    N/R=NOT REQ'D  
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 BX=BOX

PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #04-T8300052 SECTION 04</u>	776				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	6	TS02517	0	TS02517	ANGLE, DIAGONAL 2 X 2 X 1/4 X 10'-3 11/16	205	N/R			
5.	6	TS02518	0	TS02518	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-11 3/16	198	N/R			
6.	6	TS02519	0	TS02519	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-6 11/16	190	N/R			
7.	6	TS02520	0	TS02520	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-2 1/4	183	N/R			
8.					<u>SPLICE BOLTS TOP OF SECTION 04</u>					
9.	19			C40026094	BOLT ASSEMBLY, 1 1/4 ø X 5 1/2 A325	69				
10.	1 KIT				<u>HARDWARE #TK00259 SECTION 04</u>	32				
11.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
12.	13			C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7				
13.	50			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	23				
14.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW	CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
					DRAWN BY	<u>RWM</u>	PRINT NO.	<u>BOM-1</u>
					CHECKED BY	<u>ZAK</u>	PAGE	<u>6</u> OF <u>20</u>

CUSTOMER BOONE COUNTYSITE COUNTY DRIVE, MOB.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE OR=ORANGE  
 PLT=PALLET WH=WHITE  
 BDL=BUNDLE O/W=OR & WH  
 CRT=CRATE N/R=NOT REQ'D  
 D=DRUM SP=SPECIAL  
 BX=BOX

## PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #03-T8300047 SECTION 03</u>	662				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	6	TS02497	0	TS02497	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-10 1/2	176	N/R			
5.	6	TS02498	0	TS02498	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-6 1/8	169	N/R			
6.	6	TS02499	0	TS02499	ANGLE, DIAGONAL 2 X 2 X 1/4 X 8'-1 7/8	162	N/R			
7.	6	TS02500	0	TS02500	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-9 11/16	155	N/R			
8.					<u>SPLICE BOLTS TOP OF SECTION 03</u>					
9.	19			C40026080	BOLT ASSEMBLY, 1 ø X 4 3/4 A325	44				
10.	1 KIT				<u>HARDWARE #TK00259 SECTION 03</u>	32				
11.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
12.	13			C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7				
13.	50			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	23				
14.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW	CHK	DESCRIPTION

DATE 05/20/15  
 DRAWN BY RWM  
 CHECKED BY ZAK

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CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE      OR=ORANGE  
 PLT=PALLET    WH=WHITE  
 BDL=BUNDLE   O/W=OR & WH  
 CRT=CRATE    N/R=NOT REQ'D  
 D=DRUM        SP=SPECIAL  
 BX=BOX

PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #02-T8300039 SECTION 02</u>	591				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	6	TS02465	0	TS02465	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-4 1/8	146	N/R			
5.	6	TS02466	0	TS02466	ANGLE, DIAGONAL 2 X 2 X 1/4 X 7'-0 1/8	140	N/R			
6.	6	TS02467	0	TS02467	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-8 3/16	133	N/R			
7.	6	TS02468	0	TS02468	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-4 7/16	127	N/R			
8.	3	TS02451	0	TS02451	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 5/8	45	N/R			
9.					<u>SPLICE BOLTS TOP OF SECTION 02</u>					
10.	19			C40026079	BOLT ASSEMBLY, 1 ø X 4 1/2 A325	43				
11.	1 KIT				<u>HARDWARE #TK00146 SECTION 02</u>	35				
12.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
13.	13			C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7				
14.	57			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	26				
15.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
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CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

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**PACKING**

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #01-T8300032 SECTION 01-20</u>	665				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	24	TS02444	0	TS02444	ANGLE, DIAGONAL 2 X 2 X 5/16 X 6'-2 3/4	610	N/R			
5.	3	TS02412	0	TS02412	ANGLE, HORIZONTAL 2 X 2 X 5/16 X 4'-5 3/4	55	N/R			
6.					<u>SPLICE BOLTS TOP OF SECTION 01-20</u>					
7.	19			C40026077	BOLT ASSEMBLY, 1 ø X 4 A325	39				
8.	1 KIT				<u>HARDWARE #TK00146 SECTION 01-20</u>	35				
9.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
10.	13			C40026024	BOLT ASSEMBLY, 5/8 ø X 2 1/4 A325	7				
11.	57			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	26				
12.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION

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SITE COUNTY DRIVE, MO

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**PACKING**

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #01-T8300030 SECTION 01-20</u>	413				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	24	TS02442	0	TS02442	ANGLE, DIAGONAL 2 X 2 X 3/16 X 6'-2 3/4	379	N/R			
5.	3	TS02410	0	TS02410	ANGLE, HORIZONTAL 2 X 2 X 3/16 X 4'-5 3/4	34	N/R			
6.					<u>SPLICE BOLTS TOP OF SECTION 01-20</u>					
7.	13			C40026048	BOLT ASSEMBLY, 3/4 ø X 3 1/4 A325	11				
8.	1 KIT				<u>HARDWARE #TK00134 SECTION 01-20</u>	33				
9.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
10.	13			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	6				
11.	57			C40026022	BOLT ASSEMBLY, 5/8 ø X 1 3/4 A325	25				
12.	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	2				
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
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REV	DATE	DRW/CHK	DESCRIPTION



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SITE COUNTY DRIVE, MO

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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>TOWER BRACING CONT'D</u>					
2.	1 KIT				<u>BRACING #01-T8300021 SECTION 01-15</u>	214				
3.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
4.	18	TS02433	0	TS02433	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/8	191	N/R			
5.	3	TS02409	0	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4	23	N/R			
6.	1 KIT				<u>HARDWARE #TK00257 SECTION 01-15</u>	26				
7.					<u>CONSISTING OF THE MATERIAL LISTED BELOW</u>					
8.	10			C40026023	BOLT ASSEMBLY, 5/8 ø X 2 A325	5				
9.	45			C40026022	BOLT ASSEMBLY, 5/8 ø X 1 3/4 A325	20				
10.	10			C40047003	RINGFILL, 3/8 THICK - 5/8 ø BOLT	1				
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
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REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>05/20/15</u>	JOB NO.	<u>122944</u>
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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>SAFETY CLIMB MATERIAL</u>					
2.	1 KIT			C30012054	200' TUF-TUG SAFETY CLIMB MATERIAL	91				
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
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13.										
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PACKING

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		NUMBER	REV							
1.					<u>CLIMBING LADDER (SEE DWG 122944-CL1)</u>					
2.	8	CW00031	2	CW00031	WELDMENT, 20 FT. CLIMBING LADDER 12" WIDE	598	N/R			
3.	1	CW00029	2	CW00029	WELDMENT, 10 FT. CLIMBING LADDER 12" WIDE	37	N/R			
4.	1	CW00028	2	CW00028	WELDMENT, 5 FT. CLIMBING LADDER 12" WIDE	19	N/R			
5.	20	CS00037	2	CS00037	PLATE, LADDER SPLICE	8	N/R			
6.	2	CS00242	1	CS00242	ANGLE, LADDER BASE SUPPORT	15	N/R			
7.	44	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	24	N/R			
8.										
9.					<u>LADDER HARDWARE (SEE DWG 122944-CL1)</u>					
10.	14			C40039002	J-BOLT ASSEMBLY, 3/8 ø X 7 1/4 I.L.	5				
11.	30			C40039001	J-BOLT ASSEMBLY, 3/8 ø X 5 3/4 I.L.	9				
12.	40			C40024004	BOLT ASSEMBLY, 3/8 ø X 1 1/2 GRD 5	4				
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
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CUSTOMER BOONE COUNTY

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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<b>WAVEGUIDE LADDER (SEE DWG 122944-WG1)</b>					
2.	16	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	480	N/R			
3.	2	CS00148	2	CS00148	ANGLE, WAVEGUIDE LADDER RAIL 10 FT. W/4 FT. RUNG SPC	30	N/R			
4.	2	CS00149	2	CS00149	ANGLE, WAVEGUIDE LADDER RAIL 5 FT. W/3 FT. RUNG SPC	15	N/R			
5.	45	CS00151	2	CS00151	ANGLE, WAVEGUIDE SUPPORT (12 HOLE)	171	N/R			
6.	20	CS00037	2	CS00037	PLATE, LADDER SPLICE	8	N/R			
7.	44	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	24	N/R			
8.										
9.					<b>LADDER HARDWARE (SEE DWG 122944-WG1)</b>					
10.	14			C40039002	J-BOLT ASSEMBLY, 3/8 ø X 7 1/4 I.L.	5				
11.	30			C40039001	J-BOLT ASSEMBLY, 3/8 ø X 5 3/4 I.L.	9				
12.	135			C40024004	BOLT ASSEMBLY, 3/8 ø X 1 1/2 GRD 5	14				
13.										
14.										
15.										
16.										
17.										
18.										
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REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
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CUSTOMER BOONE COUNTY

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ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>FIXED PLATFORM @ 175' (SEE DWG 122944-FP)</u>					
2.	1 KIT			CK00015	<u>FIXED PLATFORM ANGLE KIT</u>	1178				
3.	3	CS00321	0	CS00321	ANGLE, TOP CHORD 3 1/2 X 3 1/2 X 3/8 X 14'-5	382	N/R			
4.	3	CS00322	0	CS00322	ANGLE, BOT CHORD 3 1/2 X 3 1/2 X 3/8 X 14'-5	382	N/R			
5.	18	CS00323	0	CS00323	ANGLE, DIAGONAL 2 X 2 X 3/16 X 2'-9	126	N/R			
6.	6	CS00320	0	CS00320	ANGLE, CORNER SUPPORT (SHORT) 6 X 4 X 3/8 X 1'-0 3/4	82	N/R			
7.	6	CS00324	0	CS00324	ANGLE, CORNER SUPPORT (LONG) 3 X 3 X 1/4 X 4'-11 3/4	152	N/R			
8.	9	CS00319	0	CS00319	ANGLE, VERTICAL (BOOM) 2 X 2 X 3/16 X 2'-4 1/2	54	N/R			
9.					<u>MISCELLANEOUS FRAMING MATERIAL</u>					
10.	6	CS00416	0	CS00416	ANGLE, LEG MOUNT	39	N/R			
11.	3	CS00311	0	CS00311	ANGLE, TOP CHORD BOOM 3 1/2 X 3 1/2 X 3/8 X 6'-7 1/2	169	N/R			
12.	3	CS00314	0	CS00314	ANGLE, BOT CHORD BOOM 3 1/2 X 3 1/2 X 3/8 X 6'-7 1/2	169	N/R			
13.	6	CS00317	0	CS00317	ANGLE, DIAGONAL BOOM 2 X 2 X 3/16 X 3'-7 3/8	53	N/R			
14.					<u>ANTENNA MOUNTING PIPE 2 3/8 OD X 10'-0</u>					
15.	6	CS00265	0	CS00265	ANGLE, PIPE MOUNT 4 X 3 X 1/4 X 0'-6 1/4	19	N/R			
16.	6			C10981224	PIPE, 2 3/8" O.D. X .134 X 10'-0	193				
17.					<u>PLATFORM GRATING</u>					
18.	3	C20137005	0	C20137005	PLATFORM, GRATING 14 GA. X 2 X 18 3/4 X 8'-6	161	N/R			
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION
1	10/8/15	RWM/MWR	REVISED QUANTITIES OF ITEMS #15 AND #16, WAS (18) AND (9) RESPECTIVELY.

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CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

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		NUMBER	REV							
1.					<u>ANTENNA MOUNTING PIPE 4 1/2 OD X 7'-0</u>					
2.	6	CS03297	0	CS03297	ANGLE, PIPE MOUNT 4 X 3 X 1/4 X 0'-8 3/8	24	N/R			
3.	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
4.										
5.										
6.					<u>Z-BRACKET PIPE MOUNTS @ 165' (SEE DWG 122944-PM1)</u>					
7.	2 KITS			C10173003	STRAIGHT LEG PIPE MOUNT KIT	134				
8.	2			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	116				
9.	8			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	17				
10.										
11.					<u>STIFFARM MOUNT FOR PIPE MOUNT @ 165'</u>					
12.					<u>(SEE DWG 122944-DT1)</u>					
13.	1 KIT			C10105019	DISH MOUNT TIEBACK ASSEMBLY	131				
14.										
15.					<u>Z-BRACKET PIPE MOUNTS @ 150' (SEE DWG 122944-PM2)</u>					
16.	2 KITS			C10173009	STRAIGHT LEG PIPE MOUNT KIT	137				
17.	2			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	116				
18.	8			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	17				
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION
1	10/8/15	RWA/MWR	REVISED ITEMS #2 AND #3. REMOVED ITEM #4.

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		NUMBER	REV							
1.					<u>STIFFARM MOUNT FOR PIPE MOUNT @ 150'</u>					
2.					<u>(SEE DWG 122944-DT2)</u>					
3.	1 KIT			C10105021	DISH MOUNT TIEBACK ASSEMBLY	132				
4.										
5.					<u>Z-BRACKET PIPE MOUNT @ 135' (SEE DWG 122944-PM3)</u>					
6.	2 KITS			C10173021	STRAIGHT LEG PIPE MOUNT KIT	138				
7.	2			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	116				
8.	8			C40034032	U-BOLT ASSEMBLY 5/8 @ X 5 3/16 C-C	17				
9.										
10.					<u>STIFFARM MOUNT FOR PIPE MOUNT @ 135'</u>					
11.					<u>(SEE DWG 122944-DT3)</u>					
12.	1 KIT			C10105024	DISH MOUNT TIEBACK ASSEMBLY	133				
13.										
14.					<u>3' SIDEARM MOUNTS @ 100' (SEE DWG 122944-SA1)</u>					
15.	3 KITS			C10151103	3 FT. SIDEARM ASSEMBLY	245				
16.	3 KITS			C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8 @ X 5'-0	58				
17.	12			C40034032	U-BOLT ASSEMBLY 5/8 @ X 5 3/16 C-C	26				
18.										
19.										
20.										

REV	DATE	DRW/CHK	DESCRIPTION	DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
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		NUMBER	REV							
1.					<u>Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 100'</u>					
2.					<u>(SEE DWG 122944-PM4)</u>					
3.	3 KITS			C10174028	TAPERED LEG PIPE MOUNT KIT	192				
4.	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
5.	12			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	26				
6.										
7.					<u>SWIVEL KNUCKLE TIEBACKS FOR SIDEARMS @ 100'</u>					
8.					<u>(SEE DWG 122944-ST1)</u>					
9.	3 KITS			C10179002	SWIVEL KNUCKLE TIEBACK KIT 2 3/8 ø PIPE X 13'-3	210				
10.										
11.					<u>3' SIDEARM MOUNTS @ 50' (SEE DWG 122944-SA1)</u>					
12.	3 KITS			C10151103	3 FT. SIDEARM ASSEMBLY	245				
13.	3 KITS			C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8 ø X 5'-0	58				
14.	12			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	26				
15.										
16.					<u>Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 50'</u>					
17.					<u>(SEE DWG 122944-PM5)</u>					
18.	3 KITS			C10174032	TAPERED LEG PIPE MOUNT KIT	193				
19.	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
20.	12			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	26				

REV	DATE	DRW	CHK	DESCRIPTION	DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
					DRAWN BY	<u>DRL</u>	PRINT NO.	<u>BOM-1</u>
					CHECKED BY	<u>ZAK</u>	PAGE	<u>18</u> OF <u>20</u>



CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

B.O.M. 175 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

PC=PIECE    OR=ORANGE  
 PLT=PALLET    WH=WHITE  
 BDL=BUNDLE    O/W=OR & WH  
 CRT=CRATE    N/R=NOT REQ'D  
 D=DRUM    SP=SPECIAL  
 BX=BOX

PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>3' SIDEARM MOUNTS @ 30' (SEE DWG 122944-SA1)</u>					
2.	3 KITS			C10151103	3 FT. SIDEARM ASSEMBLY	245				
3.	3 KITS			C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8 ø X 5'-0	58				
4.	12			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	26				
5.										
6.					<u>Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 30'</u>					
7.					<u>(SEE DWG 122944-PM6)</u>					
8.	3 KITS			C10174039	TAPERED LEG PIPE MOUNT KIT	195				
9.	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
10.	12			C40034032	U-BOLT ASSEMBLY 5/8 ø X 5 3/16 C-C	26				
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										

REV	DATE	DRW	CHK	DESCRIPTION	DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
					DRAWN BY	<u>DRL</u>	PRINT NO.	<u>BOM-1</u>
					CHECKED BY	<u>ZAK</u>	PAGE	<u>19</u> OF <u>20</u>



CUSTOMER BOONE COUNTY

SITE COUNTY DRIVE, MO

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PACKING

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	KIT	QTY. OF PKG'S.	PKG. NO.
		NUMBER	REV							
1.					<u>HARDWARE</u>					
2.	95			C40026023	BOLT ASSEMBLY, 5/8 $\phi$ X 2 A325	44				
3.	70			C40026022	BOLT ASSEMBLY, 5/8 $\phi$ X 1 3/4 A325	31				
4.	15			C40024013	BOLT ASSEMBLY, 3/8 $\phi$ X 3 3/4 GR 5	2				
5.										
6.	15			C40046001	FENDER WASHER, 3/8 X 1 1/2 X .097 H.D.G.	1				
7.	15			C40031001	FLATWASHER, 3/8 $\phi$ HARDENED ASTM F436	1				
8.										
9.	13			C40034021	U-BOLT ASSEMBLY 5/8 $\phi$ X 2 7/16 C-C	17				
10.	13			C40034023	U-BOLT ASSEMBLY 5/8 $\phi$ X 3 1/16 C-C	22				
11.	7			C40034032	U-BOLT ASSEMBLY, 5/8 $\phi$ X 5 3/16 C-C	15				
12.										
13.										
14.										
15.										
16.	1			C40068001	CAN OF COLD GALV. SPRAY	1				
17.										
18.	1	CS00500	0	CS00500	TOWER NAME PLATE	1				
19.										
20.					REFERENCE DRAWING: 122944-MS (REV. 1)					

1	10/8/15	RWM/WBR	REVISED QUANTITIES OF ITEMS #2 AND #10. WAS (110) AND (19) RESPECTIVELY. ADDED ITEM #11.
REV	DATE	DRW/CHK	DESCRIPTION

DATE	<u>06/08/15</u>	JOB NO.	<u>122944</u>
DRAWN BY	<u>DRL</u>	PRINT NO.	<u>BOM-1</u>
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