

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the

5th

day of

February

20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby recognize February 3rd through February 9th, 2019 as Missouri Farm Bureau Celebrate Agriculture/Thank a Farmer Week.

Done this 5th day of February 2019.

ATTEST:

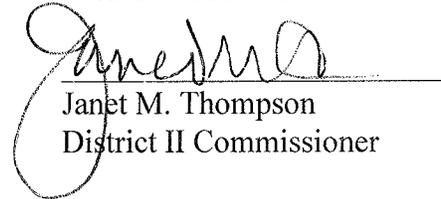
Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

**PROCLAMATION IN RECOGNITION OF
MISSOURI FARM BUREAU
CELEBRATE AGRICULTURE/THANK A FARMER WEEK
FEBRUARY 3 – 9, 2019**

- Whereas,* America’s farmers and ranchers provide food that satisfies the tastes and preferences of today’s consumers; and
- Whereas,* one farm produces food and fiber for 165 people in the United States and abroad; and
- Whereas,* U.S. consumers spend approximately 10 percent of their disposable income on food each year, less than any country in the world; and
- Whereas,* America’s farmers and ranchers not only provide the food we eat but also help sustain rural communities, preserve open space and wildlife habitat and protect the environment; and
- Whereas,* farming and ranching play a vital role in the economy of the country and each county in the state; and
- Whereas,* farmers are professionals in their career of providing food and fiber and work behind the scenes to provide a food supply that is healthy, abundant, affordable overall, and among the world’s safest; and
- Whereas,* February 3 - February 9, 2019 is recognized as Missouri Farm Bureau Celebrate Agriculture/Thank a Farmer Week;
- Therefore,* the Boone County Commission does hereby proclaim February 3-February 9, 2019 to be **Missouri Farm Bureau Celebrate Agriculture/Thank a Farmer Week** throughout Boone County and express appreciation for the efforts of farmers within Boone County and across the state of Missouri.

IN TESTIMONY WHEREOF, this 5th day of February, 2019.

Daniel K. Atwill, Presiding Commissioner

Fred J. Parry, District I Commissioner

Janet M. Thompson, District II Commissioner

ATTEST:

Brianna L. Lennon, County Clerk

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STATE OF MISSOURI }
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February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the 5th day of February 20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the request to hire above the Flexible Hiring Maximum for position 72, Legal Assistant, and does hereby authorize an appropriation of \$43,472.00 for the salary of said position.

It is further ordered the Boone County Commissioners are hereby authorized to sign the attached Request to Hire Above Flexible Hiring Maximum Form.

Done this 5th day of February 2019.

ATTEST:

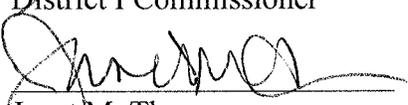
Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

REQUEST TO HIRE ABOVE FLEXIBLE HIRING MAXIMUM BOONE COUNTY

4-2019

Description of form: To request approval to hire between 86% - 120% of the salary range mid-point

Procedure:

1. The Administrative Authority or designee completes the form and prepares a schedule that demonstrates that funding is available within the salary and wage appropriation (account #10100) and calculates the amount for a budget revision, if needed. The Administrative Authority submits the form, the schedule, and the budget revision (if needed) to the Auditor for certification of funds availability.
2. The Auditor certifies funds availability and approves budget revision (if applicable) and forwards to Human Resource Director.
3. The Human Resource Director reviews the information, makes recommendation, and schedules the request on the Commission agenda for approval.
4. The County Commission will review all requests for a starting salary above the mid-point and will either approve or deny the request. After approval/denial, the County Commission will return this form to the Administrative Authority.
5. The Administrative Authority will attach a copy of this approved form to the Personnel Action Form.

Name of prospective employee Linda Konz Department Prosecuting Attorney

Position Title Legal Assistant Position No. 72

Proposed Starting Salary (complete one only) Annual: \$43,472.00 % of Mid-Point _____
 OR Hourly: \$20.90 % of Mid-Point _____

No. of employees in this job classification within your Department? 8

Justification (Describe the prospective employee's education and/or work experience which supports this proposed compensation level)
Linda worked in our office for 17 years, from 1/8/01 through 7/6/18. She left our office 7 months ago to work for her daughter-in-law in her business in Boonville, MO. We have an unexpected opening and it would be a great benefit to our office to have someone that requires no training. She was an excellent employee and an asset to this office.

If proposed salary exceeds what other employees in the same job classification are paid, explain how the prospective employee's background exceeds others working in the same job classification:
17 years of experience in this office as a Legal Assistant. Linda has more experience than any other Legal Assistant currently working in our office. We are asking for her to return to the same salary we paid her 7 months ago.

What effect, if any, will this proposal have on salary relationships with other positions in your office and/or positions in other offices?
Her salary would directly relate to her years of service and her level of experience as a Legal Assistant in the Boone County Prosecuting Attorney's Office.

Additional comments:

Administrative Authority's Signature: Daniel K Knight Date: 1-21-19

Auditor's Certification: Funds are available within the existing departmental salary and wage appropriation (#10100).
 Funds are not available within the existing departmental salary and wage appropriation (#10100); budget revision required to provide funding is attached.

Auditor's Signature: Jane E Pitchford by cz Date: 2/4/19

Human Resource Director's Recommendations:
Approve. This re-hire at prior salary request does not create any internal or external equity problems.

Human Resource Director's Signature: Reade Date: 2/4/19

County Commission Approve Deny
 Comment(s):

Presiding Commissioner's Signature: Samuel K. Altobelli Date: 2-5-2019
 District I Commissioner's Signature: [Signature] Date: 2-5-2019
 District II Commissioner's Signature: [Signature] Date: 2/6/19

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STATE OF MISSOURI }
 County of Boone } ca.

February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the 5th day of February 20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby acknowledge the following budget amendment from Emergency Management Operations to add funds to purchase a trailer mounted generator.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
2702	91300	EMR MGMT OPS	Machinery & Equipment		41,350
					41,350

Done this 5th day of February 2019.

ATTEST:

Brianna L. Lennon
 Brianna L. Lennon
 Clerk of the County Commission

Daniel K. Atwill
 Daniel K. Atwill
 Presiding Commissioner

Fred J. Parry
 Fred J. Parry
 District I Commissioner

Janet M. Thompson
 Janet M. Thompson
 District II Commissioner

BOONE COUNTY, MISSOURI REQUEST FOR BUDGET AMENDMENT

1/16/19

EFFECTIVE DATE

FOR AUDITORS USE

(Use whole \$ amounts)

Transfer From Transfer To
Decrease Increase

Dept	Account	Fund/Dept Name	Account Name	Transfer From Decrease	Transfer To Increase
2702	91300	EMR MGMT OPS	Machinery & Equipment		41,350
				-	41,350

Describe the circumstances requiring this Budget Amendment. Please address any budgetary impact for the remainder of this year and subsequent years. (Use an attachment if necessary):

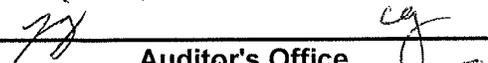
Originally budgeted in 2018, however, not able to purchase by year end. Need to appropriate funds for 2019 to award the bid for purchase.



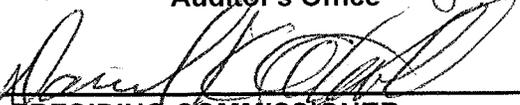
 Requesting Official

TO BE COMPLETED BY AUDITOR'S OFFICE

- A schedule of previously processed Budget Revisions/Amendments is attached
- A fund-solvency schedule is attached.
- Comments: *Rebudget Generator FY18 Approp.*



 Auditor's Office



 PRESIDING COMMISSIONER



 DISTRICT I COMMISSIONER



 DISTRICT II COMMISSIONER

BUDGET AMENDMENT PROCEDURES

- County Clerk schedules the Budget Amendment for a first reading on the commission agenda. A copy of the Budget Amendment and all attachments must be made available for public inspection and review for a period of at least 10 days commencing with the first reading of the Budget Amendment.
- At the first reading, the Commission sets the Public Hearing date (at least 10 days hence) and instructs the County Clerk to provide at least 5 days public notice of the Public Hearing. **NOTE: The 10-day period may not be waived.**
- The Budget Amendment may not be approved prior to the Public Hearing

Boone County Purchasing

Robert Wilson
Buyer



613 E. Ash Street, Room 113
Columbia, MO 65201
Phone: (573) 886-4393
Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Robert Wilson
DATE: January 9, 2019
RE: 49-07DEC18 – 60kW Trailer Mounted Generator

49-07DEC18 – 60kW Trailer Mounted Generator opened on December 14, 2018. Eight (8) bids were received.

Emergency Management recommends award by low bid to Roland Machinery Company of Bridgeton, Missouri to purchase one (1) Doosan G70WDO-T4F.

Cost of the purchase is \$41,350 and will be paid from department 2702 – Emergency Management Operations, account 91300 – Machinery and Equipment.

cc: Della Luster, EM
Contract File

MAINSCR BOONE Core Budget Description - View Only ADJASON 12:05:25
 Year 2018 Dept 2702 EMERGENCY MGMT OPERATIONS Finalized Y 1/17/19
 Account 91300 MACHINERY & EQUIPMENT 2017 Est 54,289
 2017 Bdgt 65,000 YTD 54,289 % of Bdgt 84 Est % of Bdgt 84

Description	Qty	Unit	Amount	Total
NEW SIRENS	*	2	35,000	70,000
76K GENERATOR	*	1	42,000	42,000

Class 191,000 Class 2-8 147,085 Proposed Core _____ Bottom
 Proposed Supp 112,000 % Chg
 Auditor Rev _____
 Commission Rev _____
 Total Budget 112,000 72

F2=Key Scr F3=Exit F5=History
 F6=Dept Supplemental Budget F10=Notes *
 F12=Return F15=Summary

Year	2018	Original Appropriation	112,000.00
Dept	2702 EMERGENCY MGMT OPERATIONS	Revisions	
Acct	91300 MACHINERY & EQUIPMENT	Original + Revisions	112,000.00
Fund	270 911/EM SALES TAX FUND	Expenditures	
		Encumbrances	49,386.04
Class/Account	A ACCOUNT	Actual To Date	49,386.04
Account Type	E EXPENSE	Remaining Balance	62,613.96
Normal Balance	D DEBIT	Shadow Balance	62,613.96

Transaction Code	Effective Date	Description	Orig Document	Process Date	Amount
22	1/01/2018	***** ORIGINAL BUDGET *****	2018	1996	112,000.00-
70	11/01/2018	FEDERAL SIGNAL CORPORATION	2018	201	49,386.04

Bottom

F2=Key Scr F3=Exit F6=Prd Breakdowns F7=Trans F8=View Doc F9=Budget

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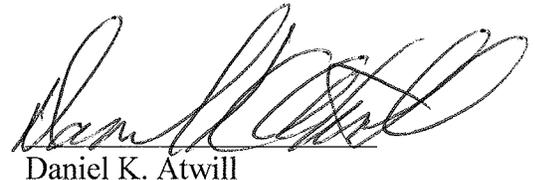
the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the attached replacement Exhibit C showing assets assigned to the Boone County Office of Emergency Management. This attached Exhibit C replaces the Exhibit C that was contained in the agreement approved in Commission Order 600-2016. The difference between the original Exhibit and the attached replacement Exhibit C, reflect assets that were either (1) property of an agency other than the City of Columbia and, therefore, could not be transferred to Boone County by the City of Columbia; or (2) property properly retained by the City of Columbia and never physically transferred to Boone County.

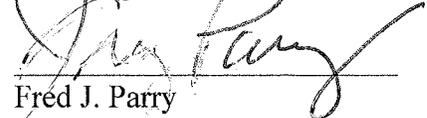
Done this 5th day of February 2019.

ATTEST:

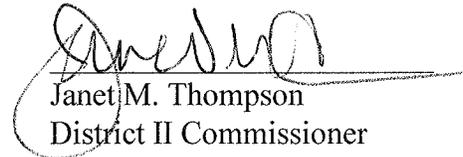
Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner

REPLACEMENT EXHIBIT C-HA EDIT

Replacement Exhibit C				
Description of Equipment	Manufacturer	Model	Serial #	Physical Location
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0284	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0554	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0282	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0298	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0561	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0562	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0578	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0579	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0292	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0297	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0550	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0559	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0555	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0568	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0556	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0296	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0300	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0558	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0299	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0679	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0539	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0280	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0553	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0580	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0275	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0290	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0582	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0577	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0286	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0548	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0291	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0283	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0281	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0294	2145 County Drive

REPLACEMENT EXHIBIT C-HA EDIT

Description of Equipment	Replacement Exhibit C			Physical Location
	Manufacturer	Model	Serial #	
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0576	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0285	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0288	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0289	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0293	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0295	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0557	2145 County Drive
Narrowband Capable P25 Portable Handheld Radio	Motorola	XTS2500	407CJD0581	2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/o display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
Six bank charger w/ display for portable handheld	Motorola	IMPRES NIMH 2100		2145 County Drive
GlobalStar Fixed Satellite Phone	GlobalStar	2900		2145 County Drive
GlobalStar Fixed Satellite Phone Car Kit	GlobalStar	1700		2145 County Drive
Shelter System for IST: Gatekeeper 19x35 w/HVAC	Western Shelter	GK11935		2145 County Drive
Gatekeeper Shelter Floor System	Western Shelter	GFS1935	GFS1935	2145 County Drive
80 Kva Baldor Generator (TS80T)	Baldor	TS80T	P1005190006	2145 County Drive
Trailer for 80 Kva Baldor Generator	Triton	2010	4TCSU1067AH611818	2145 County Drive
13,000 Watt Generator (Honda)	Honda	GX630 OHV	1133563	2145 County Drive
13,000 Watt Generator (Honda)	Honda	GX630 OHV	1133564	2145 County Drive
Palomino Puma Trailer			4X4TPUB266P007365	Public Works North
Maxwell Cargo Trailer 18x8 Dual Axel Rear Door	Maxwell		5HABE18239N00729	2145 County Drive
Trailer Contents:				
<i>Hardware, Computer, Intergrated</i>				<i>2145 County Drive</i>
<i>Trailers, Equipment</i>				<i>2145 County Drive</i>
<i>Radio, Portable</i>				<i>2145 County Drive</i>
<i>Trailers, Equipment</i>				<i>2145 County Drive</i>
<i>Phone, Satellite Base</i>				<i>2145 County Drive</i>
<i>Phone, Satellite Mobile</i>				<i>2145 County Drive</i>
<i>Trailer, Equipment</i>				<i>2145 County Drive</i>
<i>Radio, Portable</i>				<i>2145 County Drive</i>

REPLACEMENT EXHIBIT C-HA EDIT

Description of Equipment	Manufacturer	Model	Serial #	Physical Location
9.1.1.2 Cots				2145 County Drive
12 sheets 1/2" plywood for trailer shelving				2145 County Drive
Three sheets of 3/8 Inch Plywood for trailer shelving				2145 County Drive
Unistrut metal shelving framing				2145 County Drive
Dell laptop computers-wireless network				2145 County Drive
MS Office Pro 2007 (included)				2145 County Drive
2.0Ghz, 60MB, 1gig Ram, CD RW/DVD				2145 County Drive
11.1 Screen with extra battery				2145 County Drive
Laptop Computer Dell Precision M6300 GIS Workstation				2145 County Drive
Visioneer Strobe Sheet fed Scanner				2145 County Drive
Cannon Prxma i100 portable Printer				2145 County Drive
HP Design jet 90 Series wide format printer with case				2145 County Drive
NetGear JGS524 ProSafe 24 Port Gigabite Switch				2145 County Drive
HP Desk-jet HP6988 with Duplexer				2145 County Drive
HP Desk Jet HP6988 with Duplexer				2145 County Drive
HP Laser Jet 4350 Highspeed Copier				2145 County Drive
Garman 60CSx GPS				2145 County Drive
Dell Precsion ZM6300 Carry Cases Hardigg				2145 County Drive
Dell Precision ZM6300 Carry Cases Hardigg				2145 County Drive
HP Design Jjet 90 Series Wide Format Printer Case				2145 County Drive
Copier Carry Case Hardigg				2145 County Drive
Laptop Carry Cases Hardigg IM2370				2145 County Drive
Carry Cases Hardigg Shipping cost for all units				2145 County Drive
Wireless Network Router				2145 County Drive
Network Cables 5 feet				2145 County Drive
Network Cables 25 ft				2145 County Drive
Network cables 50 ft				2145 County Drive
11' USB Cables for Printers, Scanners, Copier				2145 County Drive
16' USB Cables for Plotter				2145 County Drive
Western Digital External Hard Drive 500GB				2145 County Drive
Wireless Projector and Screen				2145 County Drive
4 GB Cruzer Micro USB Drives				2145 County Drive
Kodak Easyshare 8.1 megapixel Digital Camera w/case				2145 County Drive
ODN Portable satellite ION 2100 MSS Communicaions System				2145 County Drive

REPLACEMENT EXHIBIT C-HA EDIT

Description of Equipment	Replacement Exhibit C Manufacturer	Model	Serial #	Physical Location
<i>Handset Wireless Single Line Telephone</i>				2145 County Drive
<i>Phone Line Cord 50'</i>				2145 County Drive
<i>Phone Line Cord 100'</i>				2145 County Drive
<i>Phone Line Couplers</i>				2145 County Drive
<i>Heavy Duty Stapler and Staples</i>				2145 County Drive
<i>File Boxes Corrugated</i>				2145 County Drive
<i>Portable file boxes</i>				2145 County Drive
<i>Sledge Hammer- 8lb</i>				2145 County Drive
<i>Misc Tool Kit</i>				2145 County Drive
<i>Stapler, Heavy Duty</i>				2145 County Drive
<i>3/8 inch staples for stapler</i>				2145 County Drive
<i>Gas Can 5 gallon (safety type)</i>				2145 County Drive
<i>Batteries AA 16/pkg</i>				2145 County Drive
<i>Batteries D 8/pkg</i>				2145 County Drive
<i>Fluorescent Laterns (Coleman)</i>				2145 County Drive
<i>24" Undercabinet Fluorescent Light w/ cord</i>				2145 County Drive
<i>Honda EB 11000 10.5KW Generator</i>				2145 County Drive
<i>Flood Lights; 2 head 500 watt halogen w/ stands</i>				2145 County Drive
<i>500 watt halogen bulbs</i>				2145 County Drive
<i>100 ft extension cord (12/3 gauge)</i>				2145 County Drive
<i>50 ft extension cords (12/3 gauge)</i>				2145 County Drive
<i>4-6 Outlet Serge Protector Power Strips (6ft) 5999012</i>				2145 County Drive
<i>ISC Position Vests (unit of 8)</i>				2145 County Drive
<i>19 x 35 Western Shelter GK 1-1935 Gatekeeper w/HAVAC</i>				2145 County Drive
<i>Adult sleeping bags</i>				2145 County Drive
<i>Bungee Cords of Various Lengths in tube</i>				2145 County Drive
<i>Modled folding chairs</i>				2145 County Drive
<i>Molded center folding 6' table</i>				2145 County Drive
<i>Clear Plastic storage Tub 12hx16wx23; 4ct</i>				2145 County Drive

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the 5th day of February 20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby award bid 49-07DEC18 – 60kW Trailer Mounted Generator to Roland Machinery Company of Bridgeton, Missouri.

Terms of the award are stipulated in the attached Purchase Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Purchase Agreement.

Done this 5th day of February 2019.

ATTEST:

Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill
Presiding Commissioner

Fred J. Parry
Fred J. Parry
District I Commissioner

Janet M. Thompson
Janet M. Thompson
District II Commissioner

Boone County Purchasing

Robert Wilson

Buyer



613 E. Ash Street, Room 113

Columbia, MO 65201

Phone: (573) 886-4393

Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Robert Wilson
DATE: January 9, 2019
RE: 49-07DEC18 – 60kW Trailer Mounted Generator

49-07DEC18 – 60kW Trailer Mounted Generator opened on December 14, 2018. Eight (8) bids were received.

Emergency Management recommends award by low bid to Roland Machinery Company of Bridgeton, Missouri to purchase one (1) Doosan G70WDO-T4F.

Cost of the purchase is \$41,350 and will be paid from department 2702 – Emergency Management Operations, account 91300 – Machinery and Equipment.

cc: Della Luster, EM
Contract File

**PURCHASE AGREEMENT
FOR
60KW TRAILER MOUNTED GENERATOR**

THIS AGREEMENT dated the 5th day of February, 2019 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and **Roland Machinery Company**, herein "Vendor."

IN CONSIDERATION of the parties performance of the respective obligations contained herein, the parties agree as follows:

1. **Contract Documents** - This agreement shall consist of this Purchase Agreement for a **Doosan G70WDO-T4F**, County of Boone Request for Bid number **49-07DEC18** in its entirety including the Introduction and General Conditions of Bidding, Primary Specifications, Response Presentation and Review, the un-executed bid Response Form, Standard Terms and Conditions, as well as the Contractor's bid response dated **December 13, 2018**, executed by **James Jesuit**, on behalf of the Contractor. All such documents shall constitute the contract documents which are incorporated herein by reference. Service or product data, specification and literature submitted with bid response may be permanently maintained in the County Purchasing Office bid file for this bid if not attached.

2. **Purchase** - The County agrees to purchase from the Vendor and the Vendor agrees to supply the County with one (1) **Doosan G70WDO-T4F**

Description	Qty	Unit Price
Doosan G70WDO-T4F	1	\$41,350.00

For a contract total of Forty-One Thousand, Three Hundred Fifty Dollars (\$41,350.00).

3. **Delivery** - Vendor agrees to deliver equipment as set forth in the bid documents. Delivery shall be to Boone County Office of Emergency Management, Attn: Tom Hurley, 2145 County Drive, Columbia, MO 65202, FOB - Destination. Units shall be delivered with Bill of Sale and Manufacturer's Statement of Origin. The vendor pays and bears the freight charges.

4. **Billing and Payment** - All billing shall be invoiced to the Boone County Office of Emergency Management and billings may only include the prices listed in the vendor's bid response. No additional fees for paper work processing, labor, or taxes shall be included as additional charges in excess of the charges in the Vendor's bid response to the specifications. The County agrees to pay all invoices within thirty days of receipt. In the event of a billing dispute, the County reserves the right to withhold payment on the disputed amount; in the event the billing dispute is resolved in favor of the Vendor, the County agrees to pay interest at a rate of 9% per annum on disputed amounts withheld commencing from the last date that payment was due.

5. **Binding Effect** - This agreement shall be binding upon the parties hereto and their successors and assigns for so long as this agreement remains in full force and effect.

6. **Termination** - This agreement may be terminated by the County upon thirty days advance written notice for any of the following reasons or under any of the following circumstances:

- a. County may terminate this agreement due to material breach of any term or condition of this agreement, or
- b. County may terminate this agreement if in the opinion of the Boone County Commission if delivery of products are delayed or products delivered are not in conformity with bidding specifications or variances authorized by County, or
- c. If appropriations are not made available and budgeted for any calendar year.

IN WITNESS WHEREOF the parties through their duly authorized representatives have executed this agreement on the day and year first above written.

ROLAND MACHINERY COMPANY

By James Jesuit
Title VICE PRESIDENT

BOONE COUNTY, MISSOURI

By: Boone County Commission
Daniel K. Atwill
Daniel K. Atwill, Presiding Commissioner

APPROVED AS TO FORM:

[Signature]
County Counselor

ATTEST:

Brianna J. Lennon
County Clerk

In accordance with RSMo 50.660, I hereby certify that a sufficient unencumbered appropriation balance exists and is available to satisfy the obligation(s) arising from this contract. (Note: Certification of this contract is not required if the terms of this contract do not create a measurable county obligation at this time.)

June Pitchford by jj 01/10/2019 2702-91300 - \$42,000.00
Signature Date - Pending Budget Amendment
Appropriation Account

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

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. The resulting contract will be considered "Non-Exclusive". The County reserves the right to purchase from other vendors.
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 bid responses over \$25,000, if any manufactured goods or commodities proposed with bid/proposal response are manufactured or produced outside the United States, this MUST be noted on the Bid/Proposal Response Form or a Memo attached.
19. 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.
20. 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.

4. Response Form

4.1. Company Name: ROLAND MACHINERY COMPANY

4.2. Address: 4670 CROSSROADS INDUSTRIAL DRIVE

4.3. City/Zip: BRIDGETON, MO 63044

4.4. Phone Number: 314-291-1330

4.5. Fax Number: 314-291-8050

4.6. E-mail: vkeough@rolandmachinery.com

4.7. Federal Tax ID: 37-1324032

- 4.7.1. Corporation
 Partnership - Name _____
 Individual/Proprietorship - Individual Name _____ (If Individual, Bidder must complete Certification of lawful presence in U.S. on attached form).
 Other (Specify) _____

4.8. PRICING

4.8.1. Base Bid: 60 KW Trailer Mounted Generator as specified per section 2.
 Make / Model #: DOOSAN G70WDD-TAF

Unit Price
 \$ 41,350.00

4.9. DESCRIBE WARRANTY (or attach)

1 YEAR / 2,000 HRS PARTS AND LABOR ON PACKAGE
2 YEARS / 4,000 HRS. PARTS AND LABOR ON GENERATOR

4.10. Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?
 Yes No

4.11. 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.

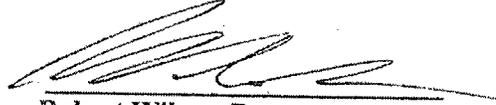
4.11.1. Authorized Representative (Sign By Hand):

James M. Jesuit

Date: 12/13/18

4.11.2. Print Name and Title of Authorized Representative
JAMES M. JESUIT, V.P. / GEN. MGR.

By:



Robert Wilson, Buyer
Boone County Purchasing

OFFEROR has examined Addendum #1 to Request for Bid #49-07DEC18 - 60kW Trailer Mounted Generator, receipt of which is hereby acknowledged:

Company Name: ROLAND MACHINERY COMPANY

Address: 4676 CROSSROADS INDUSTRIAL DRIVE

Phone Number: 314-291-1330

Fax Number: 314-291-8050

E-mail: vkeough@rolandmachinery.com

Authorized Representative Signature: James M. Jesuit Date: 12/13/18

Authorized Representative Printed Name: JAMES M. JESUIT



ST. LOUIS DIVISION HEADQUARTERS
4670 CROSSROADS INDUSTRIAL DRIVE
BRIDGETON, MO 63044
314-291-1330/800-274-7230
FAX 314-291-8050

December 12, 2018

Mr. Robert Wilson, Buyer
Boone County Purchasing
613 E. Ash Street, Room 109
Columbia, Missouri 65201

RE: Bid Number 49-07DEC18

Gentlemen:

We are pleased to submit the following quotation for your consideration in response to the above subject bid request:

ONE NEW DOOSAN MODEL G70WDO-T4F TRAILER MOUNTED GENERATOR
equipped as follows:

Powered by Cummins T4 Final Engine, 56 kW @ 480 volt/3 phase, battery charger, block heater and 2" ball hitch.

CASH SALE PRICE

\$41,350.00

ABOVE PRICING GOOD FOR 30 DAYS UNLESS OTHERWISE NOTED.

Exceptions to Specifications

Doosan complies with Page 4 of customers 10-page document.

- 2.1 Doosan is 56 kW @ 480-volt/3 phase.
- 2.6.1 G70 horsepower is 84.5.
- 2.6.2 DEF tank size is 5.2 gallon.
- 2.6.6 DEF full lockable cap, not available.
- 2.6.8 Tires are 8-ply.

Terms

To be arranged.

Delivery

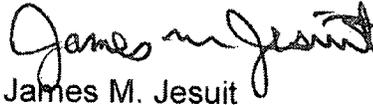
From factory, approximately 12 to 14 weeks from receipt of order, subject to prior sale.

State/Local Taxes not included and must be added if applicable.

Thank you for the opportunity to quote Boone County Purchasing. If we may be of further assistance, please don't hesitate to call.

Yours very truly,

ROLAND MACHINERY COMPANY
ST. LOUIS DIVISION



James M. Jesuit
Vice President/General Manager

JMJ/kf

cc: Mr. Jerry Hess, Roland/Columbia

THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Department of Homeland Security (DHS) and Roland Machinery Company (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). This MOU explains certain features of the E-Verify program and enumerates specific responsibilities of DHS, the Social Security Administration (SSA), and the Employer. E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of the Employment Eligibility Verification Form (Form I-9). For covered government contractors, E-Verify is used to verify the employment eligibility of all newly hired employees and all existing employees assigned to Federal contracts.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). Authority for use of the E-Verify program by Federal contractors and subcontractors covered by the terms of Subpart 22.18, "Employment Eligibility Verification", of the Federal Acquisition Regulation (FAR) (hereinafter referred to in this MOU as a "Federal contractor") to verify the employment eligibility of certain employees working on Federal contracts is also found in Subpart 22.18 and in Executive Order 12989, as amended.

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF SSA

1. SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all employees verified under this MOU and the employment authorization of U.S. citizens.
2. SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by SSA as governed by the Privacy Act (5 U.S.C. § 552a), the Social Security Act (42 U.S.C. 1306(a)), and SSA regulations (20 CFR Part 401).



Company ID Number: 216186

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

Employer **Roland Machinery Company**

Rachel Pennell

Name (Please Type or Print)

Title

Electronically Signed

05/27/2009

Signature

Date

Department of Homeland Security – Verification Division

USCIS Verification Division

Name (Please Type or Print)

Title

Electronically Signed

05/27/2009

Signature

Date

CERTIFICATION OF INDIVIDUAL BIDDER

Pursuant to Section 208.009 RSMo, any person applying for or receiving any grant, contract, loan, retirement, welfare, health benefit, post secondary education, scholarship, disability benefit, housing benefit or food assistance who is over 18 must verify their lawful presence in the United States. Please indicate compliance below. Note: A parent or guardian applying for a public benefit on behalf of a child who is citizen or permanent resident need not comply.

- 1. I have provided a copy of documents showing citizenship or lawful presence in the United States. (Such proof may be a Missouri driver's license, U.S. passport, birth certificate, or immigration documents). Note: If the applicant is an alien, verification of lawful presence must occur prior to receiving a public benefit.

- 2. I do not have the above documents, but provide an affidavit (copy attached) which may allow for temporary 90 day qualification.

- 3. I have provided a completed application for a birth certificate pending in the State of _____. Qualification shall terminate upon receipt of the birth certificate or determination that a birth certificate does not exist because I am not a United States citizen.

James M Jesuit
Applicant

27 DEC 18
Date

JAMES M JESUIT
Printed Name

(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.

JAMES M. JESUIT VICE PRESIDENT

Name and Title of Authorized Representative

James M Jesuit

Signature

27 Dec 18

Date



DOOSAN. POWERFUL SOLUTIONS.



Portable Generators
25 kVA — 570 kVA

DOOSAN

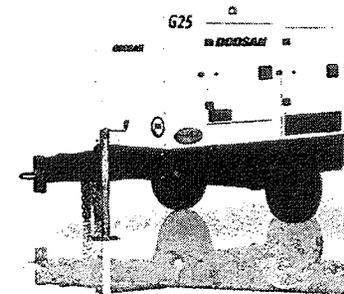
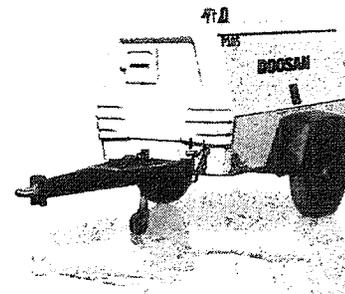
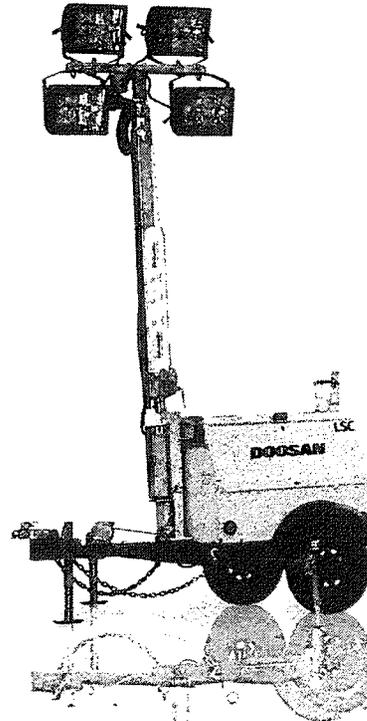
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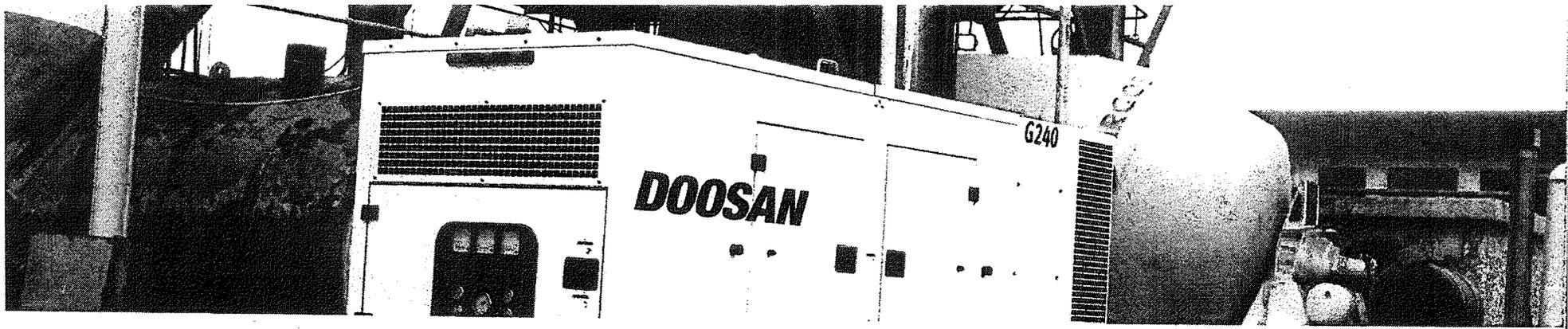
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DOOSAN

About Us

Doosan Portable Power has more than 100 years of manufacturing expertise and application experience with a focus on providing the highest quality machines with unrivaled customer service and reliability. The product line includes generators, air compressors, light towers and light compaction equipment. Doosan Portable Power manufacturing operations are in Statesville, North Carolina. Doosan Portable Power is a business of Doosan Bobcat North America. For more information on Doosan® products, visit DoosanPortablePower.com.





Powerful Solutions

At Doosan Portable Power, we do more than provide superior products. We deliver powerful solutions to move your business forward. Robust compressors that perform on the most demanding job sites. Generators and light towers that are reliable and efficient. Factor in our industry-leading service and support, and it's quite clear that partnering with us is a smart return on your investment.

Dependability

Our equipment is built to last with corrosion-resistant galvanized steel enclosures and a durable, baked-on powder coat finish. Extensive testing at our Statesville, North Carolina facility includes a test track, tilt table, and cold chamber to ensure our machines will perform in the harshest conditions and applications.

Doosan is fully committed to delivering quality machines that maximize uptime and minimize downtime to give you peace of mind.

"The quality is a 10. The durability is a 10."

-Jack Anderson, Pape Material Handling

Performance

Doosan Portable Power gives you the power you need in the most efficient manner. We provide leading fuel economy and performance while ensuring compliance with the latest emissions standards.

Doosan also offers unmatched versatility to support almost every job or application. And with user friendly controls and diagnostics, anyone can operate our equipment with minimal instruction.

"Doosan has always performed well for us."

-Mark Grimes, Industrial Marine

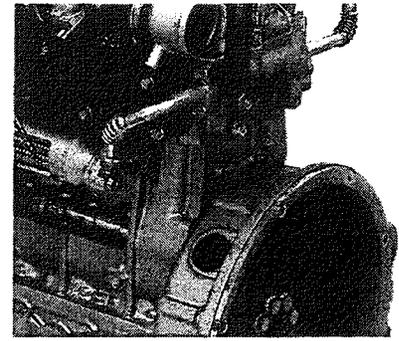
Serviceability

Doosan has an extensive and knowledgeable dealer network. Our dealer-partners have a deep understanding of your business and can provide the solutions you demand.

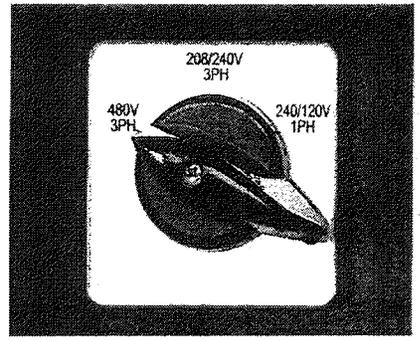
All of our products are engineered and designed with an emphasis on accessibility to make sure routine maintenance is quick and easy to perform without having to take the machine apart.

"Parts and service are always there when we need it."

- Mike Venuti, Meruelo Group



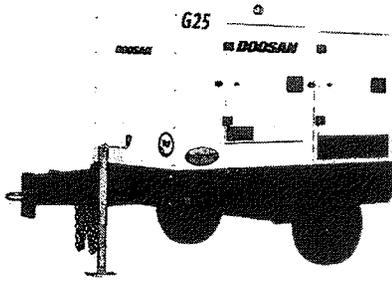
The high performance Doosan engine features a diesel oxidation catalyst (DOC) aftertreatment system, which is virtually maintenance-free.



Standard units feature multi-voltage and 50/60Hz capability to meet a broad range of applications.

G25

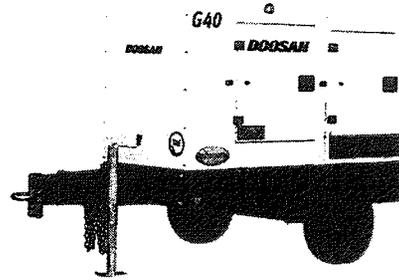
Full specifications on page 15



PRIME POWER RATING 25 kVA | 20 kW

G40

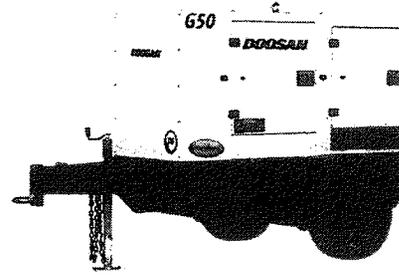
Full specifications on page 15



PRIME POWER RATING 39 kVA | 31 kW

G50

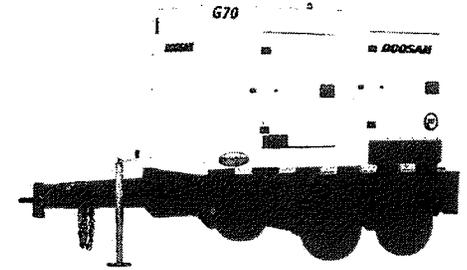
Full specifications on page 15



PRIME POWER RATING 48 kVA | 38 kW

G70

Full specifications on page 15



PRIME POWER RATING 70 kVA | 56 kW

G25-G70 Generators

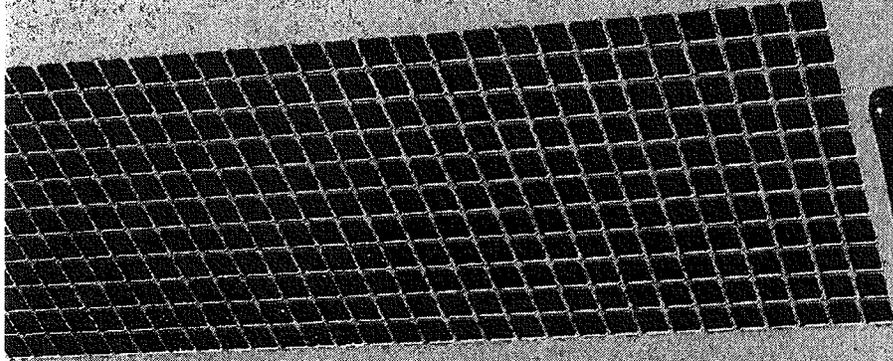
When you need reliable, dependable power, look to Doosan Portable Power. Our mobile generator range covers applications from 25 to 570 kVA and meets the demanding requirements of rental, construction, events and entertainment, and disaster recovery customers. These rugged packages are designed to perform in the harshest environments—from the frozen oil fields of northern Canada to the scorching desert of the American southwest—you can be confident that your generator has the quality and durability to meet the demands of the most challenging applications.

The G25-70 range is powered by fuel efficient Doosan diesel engines. These state-of-the-art engines have been designed to be powerful and reliable while meeting EPA tier 4 emissions standards without the need for diesel particulate filters. In addition, these high-performance engines provide excellent transient response ensuring precision frequency stability.

The durable CoolBox™ enclosure is acoustically treated to minimize sound levels as low as 63dB(A) while ensuring proper cooling airflow through the package to operate at maximum load in high ambient temperatures.

Doosan mobile generators feature skid baseframes with integrated high capacity fuel tanks which provide a full load runtime of at least 24 hours. In addition, the baseframe is part of the environmental containment system that prevents spillage of fuel or oil outside of the package, safeguarding the environment. And our heavy-duty running gear system mounts easily to the baseframe with low profile, torsion-style axles with your choice or electric or hydraulic surge brakes, bolt-on fenders, and adjustable height hitches to ensure safe and easy towing—on-road or off.

DOOSAN



G150

77

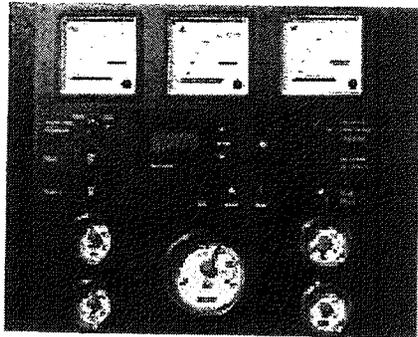
DOOSAN

77

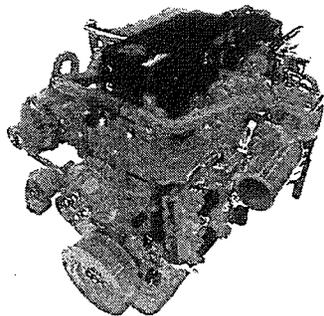
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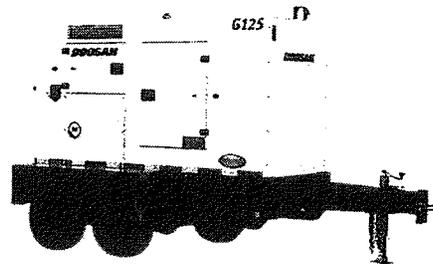
The easy-to-use operator panel includes the powerful TG410 controller and is complemented by a full array of analog gauges, greatly simplifying control and monitoring.



The G125-325 range is powered by Cummins diesel engines which include DOC/SCR aftertreatment and meet tier 4 regulations without DPFs, ensuring reliable performance and reduced maintenance.

G125

Full specifications on page 15



PRIME POWER RATING 125 kVA | 100 kW

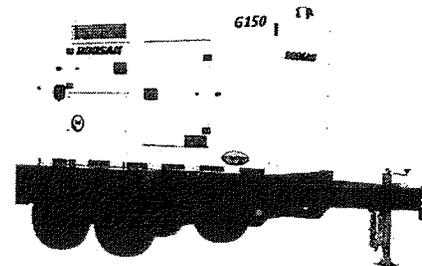
G125 & G150 Generators

The G125-150 models include the upgraded CoolBox Plus™ enclosure design which adds a temperature-controlled, variable-speed cooling fan to the package. This allows enhanced performance in extreme ambient temperature while further improving sound attenuation and reducing water ingress across the operating range.

Doosan mobile generators produce a broad range of output voltages thanks to the standard three-position voltage selector switch. The VSS is protected from unauthorized access and will shut the machine down to prevent switching during operation. The customer connection panel is spacious and designed to accept a wide variety of power cables. The convenience receptacle panel includes 240V single

G150

Full specifications on page 15



PRIME POWER RATING 154 kVA | 123 kW

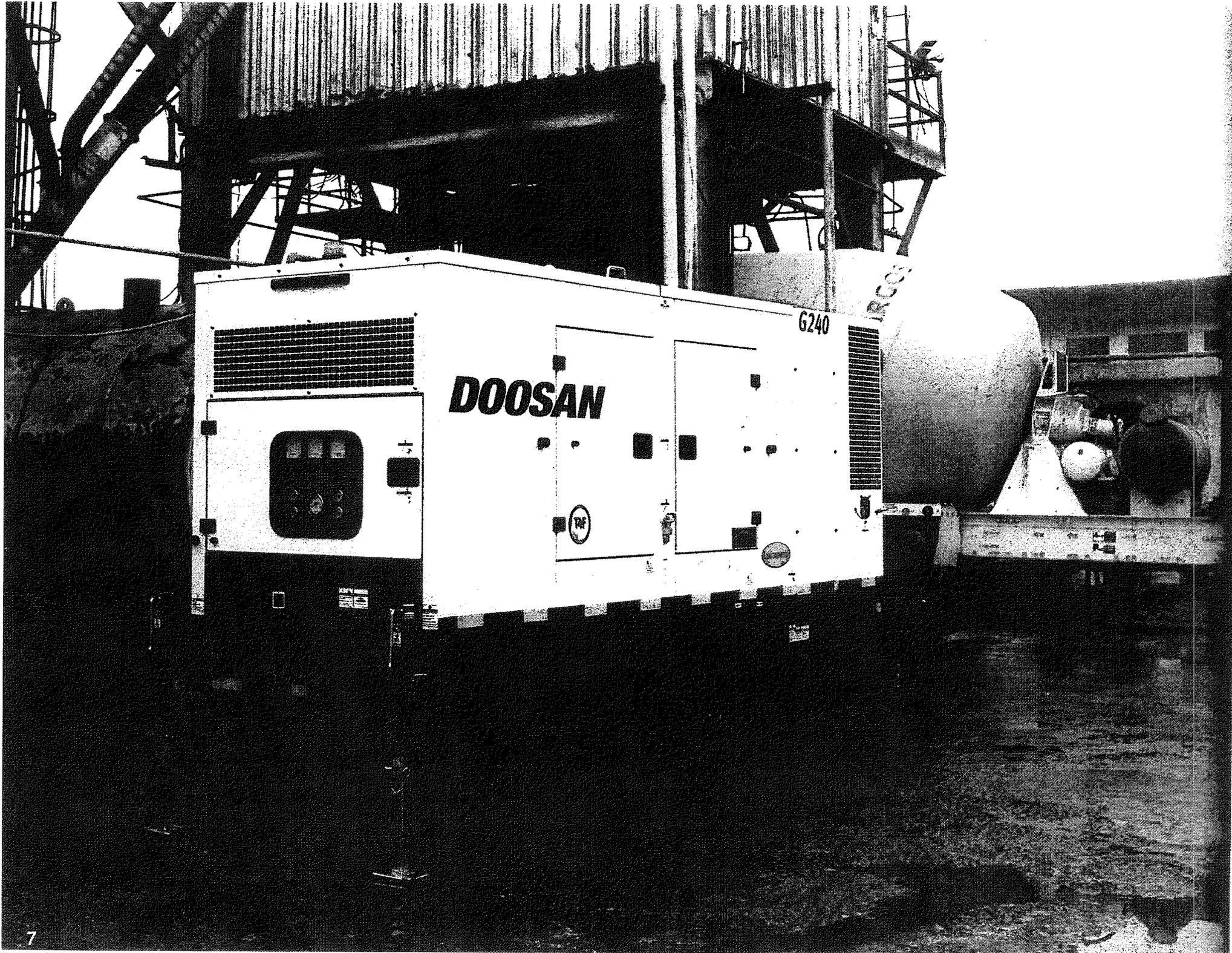
phase twist-lock receptacles and 120V GFCI receptacles that are powered any time the unit is running.

Doosan's advanced controls include an LCD display which announces any warnings or shutdowns. In addition, the controller logs all system faults, greatly aiding technicians with diagnostics. The system also supports remote auto start/stop control, plus integration with various telematics systems.

The G125-325 range is powered by Cummins tier 4-compliant diesel engines, paired with high capacity diesel exhaust fluid (DEF) tanks to ensure the DEF supply is matched to the available fuel supply.

DOOSAN. POWERFUL SOLUTIONS.

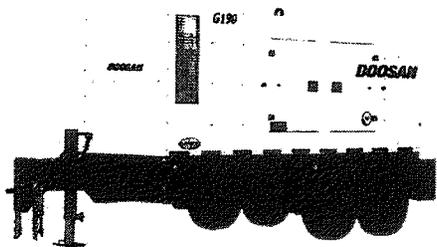
DoosanPortablePower.com
800.727.8457



DOOSAN. POWERFUL SOLUTIONS.

G190

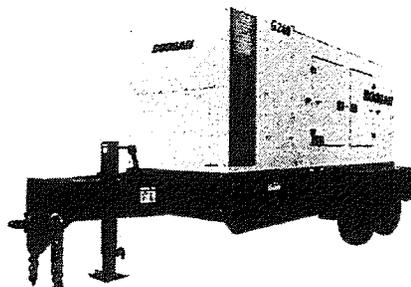
Full specifications on page 16



PRIME POWER RATING 181 kVA | 145 kW

G240

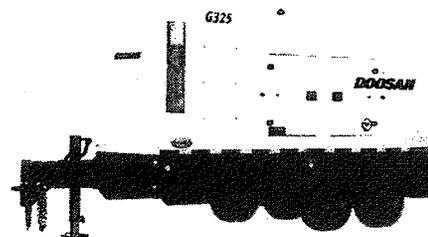
Full specifications on page 16



PRIME POWER RATING 236 kVA | 188 kW

G325

Full specifications on page 16



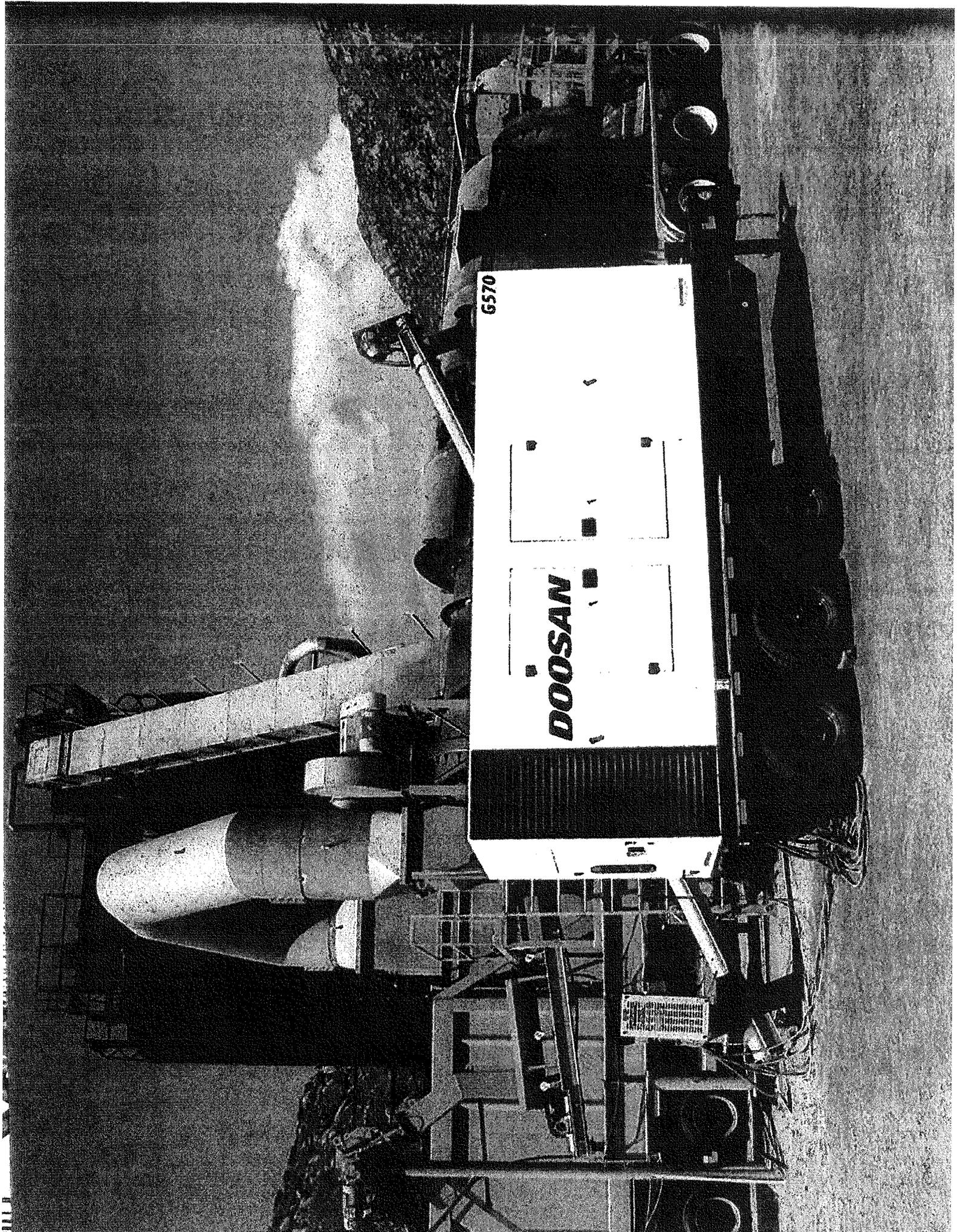
PRIME POWER RATING 334 kVA | 270 kW

G190-G325 Generators

The G190-G325 range features the exclusive DualBox™ enclosure design. This innovative enclosure separates the powertrain from the cooling system, allowing independent control of the cooling performance in each compartment. The engine compartment is cooled by dual, variable speed, electric cooling fans designed to maximize sound attenuation and minimize water ingress. The cooling compartment features a high efficiency, centrifugal style cooling fan which improves fuel economy and provides the cooling performance that tier 4 diesel engines need.

A strong and powerful alternator is a must when powering critical jobs, so Doosan selects alternators that exceed the need. Separately-excited, brushless alternators have the motor starting capability required to power tower cranes, rock crushers and oilfield equipment, while the solid state automatic voltage regulators provide the precise voltage control needed in sensitive applications such as concerts, film production and special events. Additionally, Doosan selects the highest-grade insulating materials to ensure long life and resistance to dust and moisture common in mobile applications.

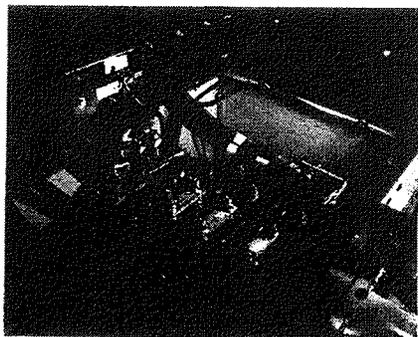
Doosan mobile generators have been designed with the service technician in mind. With 500 hour intervals between fluid and filter exchanges, you can be sure that downtime for maintenance is minimized. All maintenance points are easily accessible and designed for fast and easy service.



G570

DOOSAN

WARNING
DANGER
HIGH VOLTAGE
ELECTRICITY
IS PRESENT
HERE
KEEP CLEAR



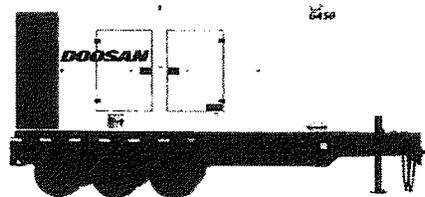
With a hinged access cover and lighted enclosure, the G450-570 link board makes voltage conversion a safe and simple process.



Challenging applications demand powerful alternators. Doosan specifies high-output, separately-excited alternators that ensure unmatched motor starting capability and precision voltage control.

G450

Full specifications on page 16



PRIME POWER RATING 456 kVA | 365 kW

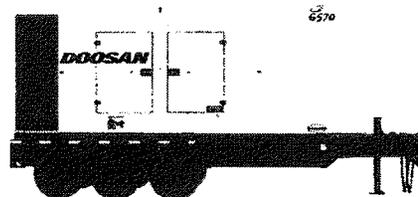
G450-570 Generators

The G450-G570 range represents some of the most power-dense machines in this class. Powered by Cummins X15 diesel engines, these powerful packages are built to handle big jobs, but have been designed with a compact footprint to simplify transport and job site positioning. With the tri-axle running gear and canopy style CoolBox™ enclosure, these models weigh in at less than 20,000 pounds fully fueled and are towable with vehicles equipped with conventional pintle hitches.

To simplify voltage selection, the G450-G570 models are equipped with an easily accessible

G570

Full specifications on page 16



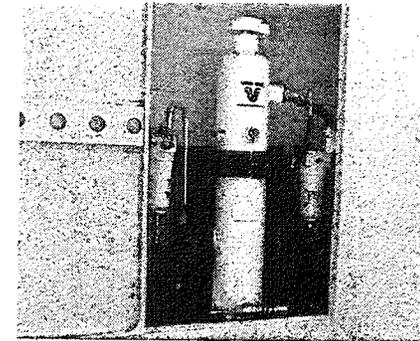
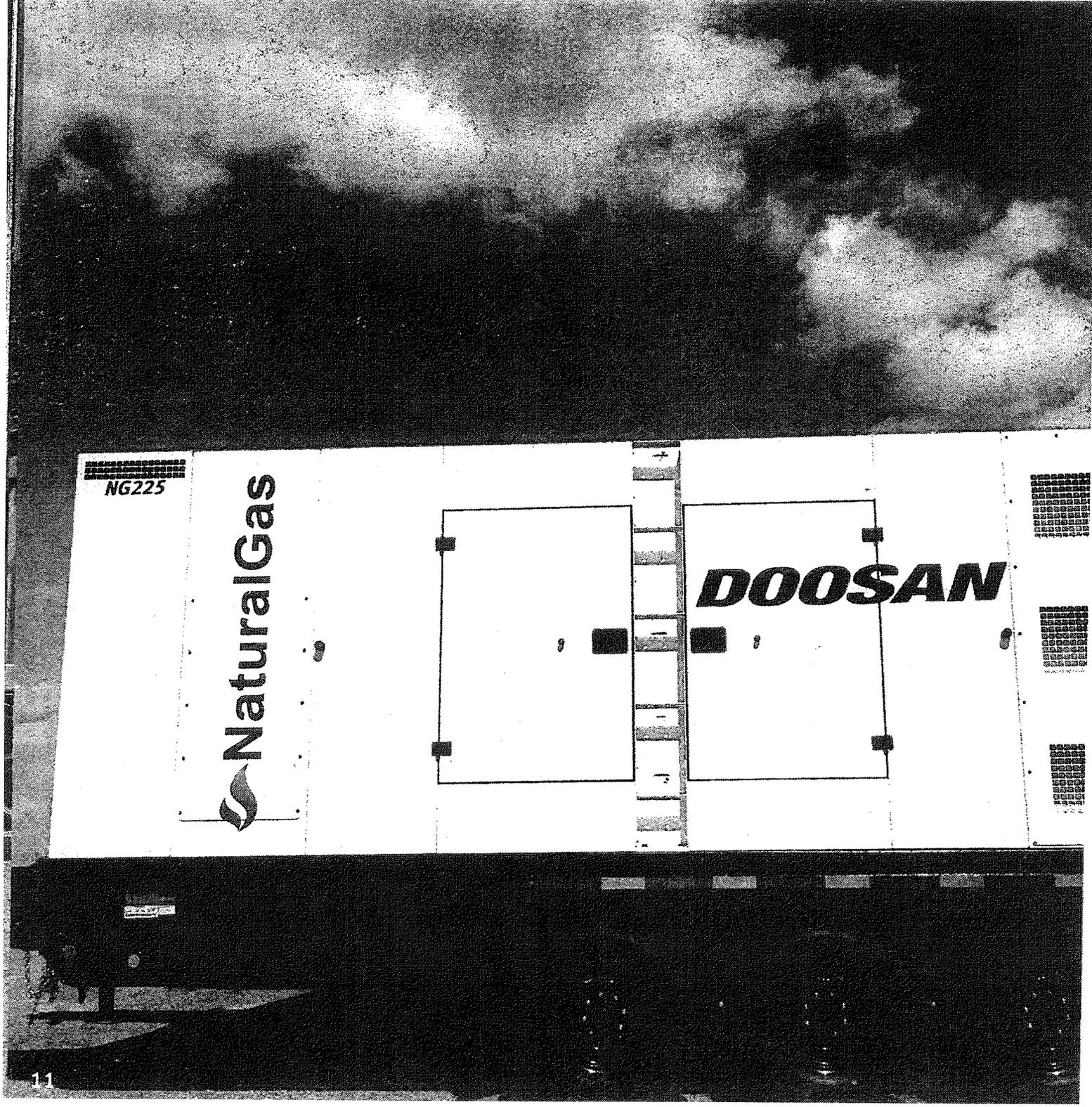
PRIME POWER RATING 570 kVA | 456 kW

link board. The control panel includes the TG410 controller and a full array of analog gauges for at-a-glance monitoring of system performance.

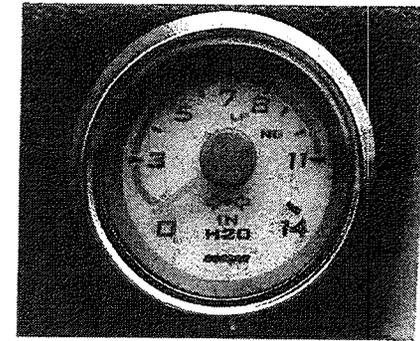
Doosan offers a broad range of options to customize your generator to suit the needs of your specific application. From cold weather options to extended capacity fuel tanks, to running gear features or custom enclosure colors, Doosan has the solution you need.

DOOSAN. POWERFUL SOLUTIONS.

DoosanPortablePower.com
800.727.8457



The onboard scrubber system includes coalescing and particulate filters to remove contaminants from wellhead fuel, while the deliquescent dryer removes liquids from the fuel supply.

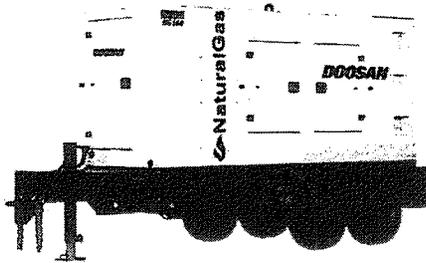


Doosan's exclusive fuel pressure gauge provides operators with an at-a-glance indication of incoming gas pressure and easily identifies whether the generator is operating on the primary wellhead fuel supply or on the backup LP supply.

DOOSAN. POWERFUL SOLUTIONS.

NG160

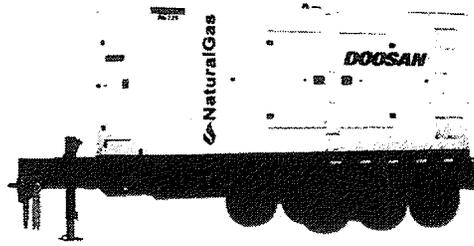
Full specifications on page 17



PRIME POWER RATING 167 kVA | 134 kW

NG225

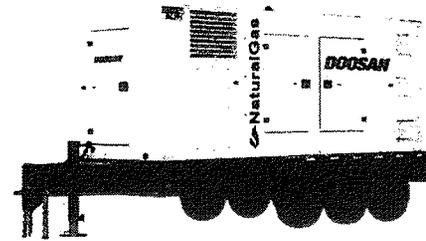
Full specifications on page 17



PRIME POWER RATING 224 kVA | 179 kW

NG295

Full specifications on page 17



PRIME POWER RATING 320 kVA | 256 kW

Natural Gas Generators

When it comes to meeting the unique requirements of the oil and gas market, Doosan's NG160-NG295 range includes the quality and the features that ensure these units are oilfield ready. Designed to operate on municipal-supplied natural gas, liquid propane (LP), and a broad range of wellhead fuel, these models are clean, efficient and can greatly reduce operating costs compared with diesel units.

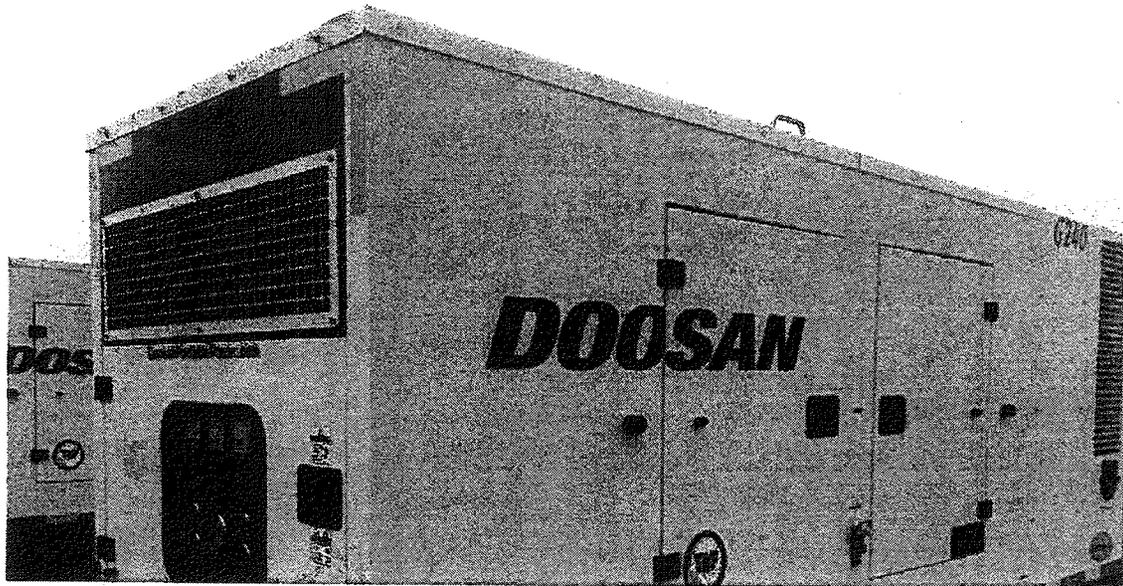
Powered by dependable PSI Heavy Duty engines, driving oversized Leroy Somer alternators, the NG160-295 models have the performance to power pump jacks, ESPs,

and other challenging oilfield applications. For operation on wellhead fuel, Doosan has packaged an onboard fuel scrubber with an automatic drain valve to remove liquids and other contaminants from the fuel supply. The scrubber is protected from the elements within the enclosure and the integrated design simplifies transport, piping, and site commissioning to help increase productivity.

Doosan understands the critical importance of reliable power, especially in applications where downtime equals loss of productivity and revenue. That's why Doosan has developed an innovative NG/LP switching

system that can switch from the primary NG fuel source to a backup LP source at full rated load without any load shedding. Additionally, the automatic oil level maintainer gives peace of mind that the crankcase will remain full, an advantage for units operating in remote areas. And the standard MasterTrak telematics system includes one year of remote monitoring, allowing you to keep watch over the performance of your generators from your computer or smart phone.

DoosanPortablePower.com
800.727.8457



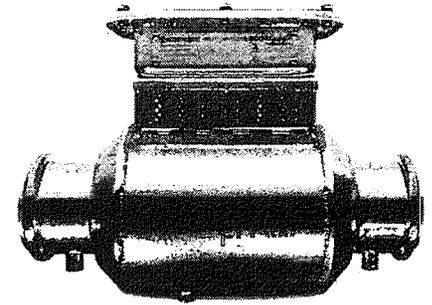
Intelligent Load Management System

Doosan understands that generators must perform, even in challenging light load applications that may be further affected by extremely low temperatures. Whether a cyclical application, such as an oilfield pump jack, or a periodic load, such as a mancamp, even properly sized generators can suffer performance or reliability problems. This is particularly challenging for modern tier 4 engines which require high exhaust temperatures for proper performance of the emissions control components.

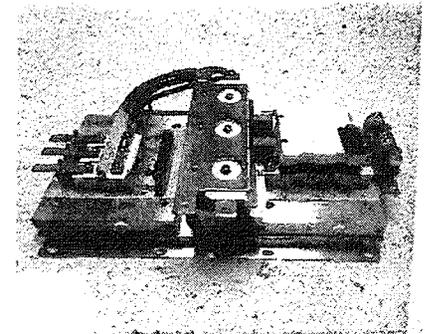
To address these challenges, Doosan has developed the Intelligent Load Management System (ILMS). This patented system adds supplemental heat to the exhaust system and optimizes the temperature so that regeneration and conditioning events occur as designed, eliminating costly downtime and engine fault codes caused by premature plugging of tier 4 exhaust aftertreatment components.

The ILMS is fully automatic and requires no user control or adjustment. The system operates at any voltage produced by the generator and modulates output to provide precisely the right amount of heat required for optimum performance, greatly reducing fuel consumption. Plus, the system can respond instantly to changes in power demand, ensuring that the ILMS will not affect the operation of your connected loads, even for sudden transients such as motor starts.

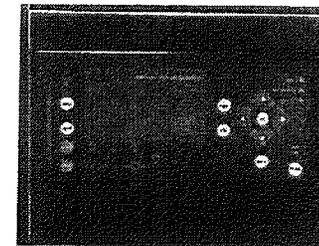
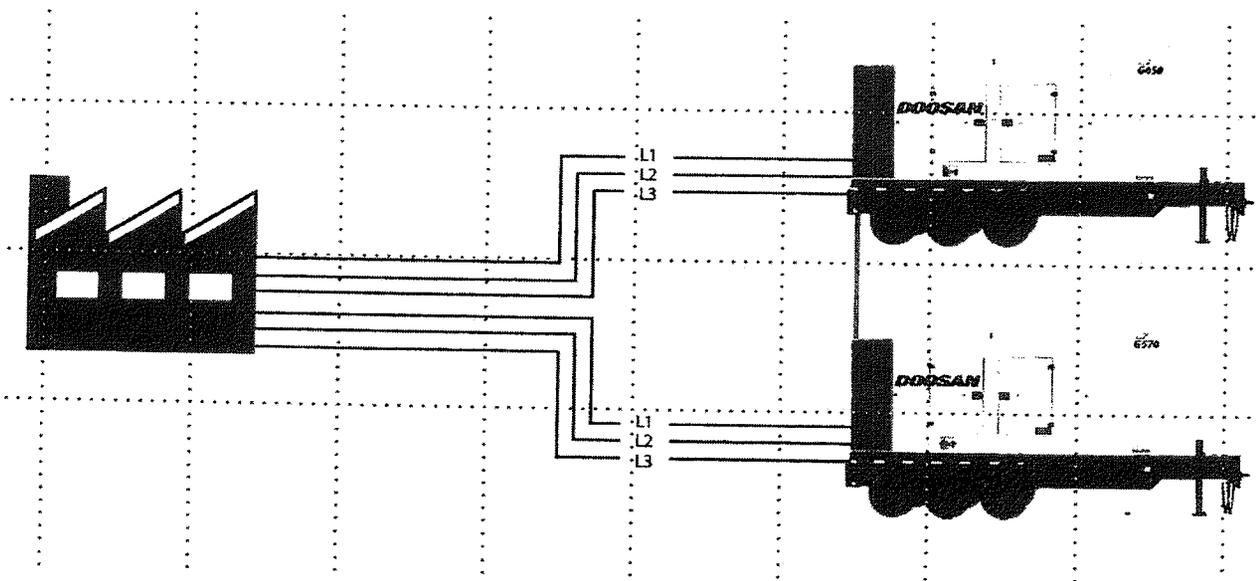
Like all Doosan products, the ILMS components have been designed with the durability and reliability to perform in construction, rental, and oilfield applications and in the harshest of environments. If you have applications where reliability is critical but your power consumption is inconsistent, the ILMS will give you the performance you demand.



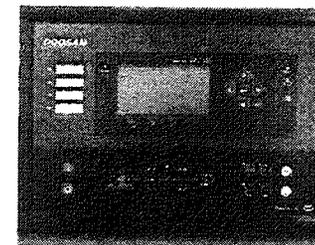
Doosan's patented ILMS uses power produced by the generator to add supplemental heat directly to the engine aftertreatment increasing performance and reliability without sacrificing capacity or fuel economy.



Sophisticated power electronics automatically convert any voltage produced by the generator to DC which is pulsed to the ILMS ensuring precise delivery of power without need for any operator setup or adjustment.



AGC4 Controller



AGC243 Controller

Load Synchronization and Paralleling

For applications that require additional power or desire redundancy to ensure the ultimate reliability, Doosan offers advanced control systems that allow multiple generators to be synchronized and paralleled together. Doosan has partnered with Deif, a global leader in control systems to offer a highly configurable control system capable of supporting a broad range of applications, but also intuitive and easy to operate by rental customers.

The Deif AGC243 is Doosan's entry level solution for paralleling control. The system allows load-sharing of up to 16 generators plus complete machine control and protection, all in a compact all-in-one hardware solution. The operator interface includes a large 6-line LCD display that provides a graphical readout of all system parameters.

Load sharing is accomplished by a two-wire CANbus data link and additionally has the option to communicate with other common brands of controller via a three-wire analog data link. The system offers advanced power management capability including load dependent starting and stopping, asymmetric load-sharing, and priority selection which allow the user to optimize load-sharing based on running hours or fuel consumption.

The system comes fully configured from the factory which greatly simplifies commissioning and set up. The controller is easily programmed through the operator interface or via a laptop interface using Deif's downloadable USW configuration software.

For more advanced applications, Doosan offers the feature-enhanced Deif AGC4 controller which adds to the broad range of features included in the AGC243. Coupled with the Leroy Somer D510C digital AVR, the system can be easily programmed for high performance in challenging applications such as motor starting, transformer energizing, and close before excitation which can synchronize multiple generators in less than 10 seconds following blackout.

Doosan's complete solution includes a fully packaged control system, a motorized main circuit breaker and easy terminations for all required customer connections.

Specifications



Model	G25WDO-3A-T4F			G40WDO-3A-T4F			G50WDO-3A-T4F			G70WDO-3A-T4F			G125WCU-3A-T4F			G150WCU-3A-T4F		
PRIME POWER RATING	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA
@ 480V-3Ø, 0.8PF, 60Hz	30	20	25	47	31	39	58	38	48	84	56	70	151	100	125	186	123	154
@ 240V-3Ø, 0.8PF, 60Hz	60	20	25	93	31	39	115	38	48	168	56	70	301	100	125	371	123	154
@ 208V-3Ø, 0.8PF, 60Hz	61	17	22	106	31	39	125	36	45	190	55	68	336	97	121	411	118	148
@ 240V-1Ø, 1.0PF, 60Hz	69	16.5	16.5	134	32	32	140	33.6	33.6	209	50	50	360	86	86	433	104	104
@ 120V-1Ø, 1.0PF, 60Hz	69 × 2	16.5	16.5	134 × 2	32	32	140 × 2	33.6	33.6	209 × 2	50	50	360 × 2	86	86	433 × 2	104	104
@ 400V-3Ø, 0.8PF, 50Hz	29	16	20	45	25	31	59	33	41	89	50	62	152	84	105	191	106	132
Voltage Configuration	3-Position Switch			3-Position Switch			3-Position Switch			3-Position Switch			3-Position Switch			3-Position Switch		
Frequency Capability	50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable		
ENGINE																		
Engine Make / Model	Doosan D18			Doosan D24			Doosan D24			Doosan D34			Cummins QSB5-G11			Cummins QSB5-G12		
Displacement (L)	1.794			2.392			2.392			3.409			4.5			4.5		
Number of Cylinders	3			4			4			4			4			4		
Power Output @ 1800RPM - HP (kWm)	33.5 (25)			48.8 (36.4)			59.8 (44.6)			85.8 (64)			153 (114)			186 (139)		
Emissions Tier Level	Tier 4 Final			Tier 4 Final			Tier 4 Final			Tier 4 Final			Tier 4 Final			Tier 4 Final		
Aftertreatment Technology	DOC			DOC			DOC			DOC / SCR			DOC / SCR			DOC / SCR		
Usable Fuel Tank Capacity - Gal (L)	46.7 (177)			110 (416)			110 (416)			110 (416)			176.5 (668)			176.5 (668)		
Diesel Exhaust Fluid (DEF) Capacity - Gal (L)	N/A			N/A			N/A			5.2 (19.7)			25 (94.6)			25 (94.6)		
Runtime @ 100% Load - Hr	25.9			44.9			37.2			25			24.9			20.1		
DIMENSIONS WITH RUNNING GEAR																		
Length - in (mm)	130.5 (3315)			130.5 (3315)			130.5 (3315)			163.8 (4161)			171 (4343)			171 (4343)		
Width - in (mm)	72.8 (1850)			72.8 (1850)			72.8 (1850)			71.3 (1810)			72.5 (1841)			72.5 (1841)		
Height - in (mm)	76.6 (1946)			78.4 (1992)			78.4 (1992)			93.3 (2371)			91.0 (2311)			91.0 (2311)		
Weight (Ready to Run) - lb (kg)	3140 (1424)			3870 (1755)			3870 (1755)			5550 (2518)			6950 (3152)			7040 (3193)		
Sound Level @ 23 ft (7m) and 100%	63			64			64			64			68			69		

Model	G190WCU-3A-T4F			G240WCU-3A-T4F			G325WCU-3A-T4F			G450WCU-T2			G570WCU-T2		
PRIME POWER RATING	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	KVA
@ 480V-3Ø, 0.8PF, 60Hz	218	145	181	283	188	236	401	270	334	548	365	456	686	456	570
@ 240V-3Ø, 0.8PF, 60Hz	436	145	181	567	188	236	803	270	334	1097	365	456	1371	456	570
@ 208V-3Ø, 0.8PF, 60Hz	502	145	181	608	175	219	877	252	316	1260	363	454	1416	408	510
@ 240V-1Ø, 1.0PF, 60Hz	458	110	110	567	136	136	821	197	197	N/A	N/A	N/A	N/A	N/A	N/A
@ 120V-1Ø, 1.0PF, 60Hz	458 × 2	110	110	567 × 2	136	136	821 × 2	197	197	N/A	N/A	N/A	N/A	N/A	N/A
@ 400V-3Ø, 0.8PF, 50Hz	238	132	165	289	160	200	404	224	280	N/A	N/A	N/A	N/A	N/A	N/A
Voltage Configuration	3-Position Switch			3-Position Switch			3-Position Switch			Link Board			Link Board		
Frequency Capability	50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable			60Hz Only			60Hz Only		
ENGINE															
Engine Make / Model	Cummins QSB7-G8			Cummins QSB7-G9			Cummins QSL9-G9			Cummins QSX15-G9			Cummins QSX15-G9		
Displacement (L)	6.7			6.7			8.9			15			15		
Number of Cylinders	6			6			6			6			6		
Power Output @ 1800RPM - HP (kWm)	219 (163)			282 (210)			393 (293)			680 (507)			680 (507)		
Emissions Tier Level	Tier 4 Final			Tier 4 Final			Tier 4 Final			Tier 2			Tier 2		
Aftertreatment Technology	DOC / SCR			DOC / SCR			DOC / SCR			N/A			N/A		
Usable Fuel Tank Capacity - Gal (L)	330 (1249)			330 (1249)			460 (1741)			574 (2173)			574 (2173)		
Diesel Exhaust Fluid (DEF) Capacity - Gal (L)	25 (94.6)			25 (94.6)			25 (94.6)			N/A			N/A		
Runtime @ 100% Load - Hr	31.7			24.4			24.1			22.3			18.5		
DIMENSIONS WITH RUNNING GEAR															
Length - in (mm)	224 (5689)			224 (5689)			240 (6098)			260.6 (6620)			260.6 (6620)		
Width - in (mm)	83.2 (2114)			83.2 (2114)			83 (2109)			85.2 (2165)			85.2 (2165)		
Height - in (mm)	102.9 (2615)			102.9 (2615)			113 (2870)			118 (2998)			118 (2998)		
Weight (Ready to Run) - lb (kg)	11377 (5172)			11377 (5172)			14032 (6378)			18271 (8288)			18573 (8425)		
Sound Level @ 23 ft (7m) and 100%	69			69			76			74			76		

Specifications

Model		NG160			NG225F			NG295		
PRIME POWER RATING		AMPS	KW	KVA	AMPS	KW	KVA	AMPS	KW	
@ 480V-3Ø, 0.8PF, 60Hz	Natural Gas	201	134	167	269	179	224	385	256	320
@ 400V-3Ø, 0.8PF, 50Hz	Natural Gas	213	118	147	289	160	200	366	203	253
@ 480V-3Ø, 0.8PF, 60Hz	Propane	146	97	121	175	116	145	261	173	217
@ 400V-3Ø, 0.8PF, 50Hz	Propane	148	82	102	195	108	135	242	134	167
Voltage Configuration		Dedicated Voltage			Dedicated Voltage			Dedicated Voltage		
Frequency Capability		50Hz/60Hz Switchable			50Hz/60Hz Switchable			50Hz/60Hz Switchable		
ENGINE										
Engine Make / Model		PSI 8.1 L Turbo			PSI 11.1 L Turbo			PSI 14.6 L Turbo		
Displacement (L)		8.1			11.6			14.6		
Number of Cylinders		6			6			8		
Power Output @ 1800RPM - NG Fuel - HP (kWm)		201 (150)			268 (200)			390 (290)		
Power Output @ 1800RPM - LP Fuel - HP (kWm)		148 (110)			177 (132)			271 (202)		
Aftertreatment Technology		Three Way Catalyst			Three Way Catalyst			Three Way Catalyst		
Fuel Type & Consumptions (Ft3/Hr)	Natural Gas	1539			2115			2782		
	Propane	517			704			926		
FEATURES AND BENEFITS										
Onboard Scrubbing System		Standard			Standard			Standard		
Dual Fuel (NG / LP)		Standard			Standard			Standard		
Full Load NG / LP Switching		Standard			Standard			Standard		
Fuel Source & Pressure Indicator		Standard			Standard			Standard		
LP Vaporizer		Standard			Standard			Standard		
Oil Level Maintainer (25 gallons/95 liters)		Standard			Standard			Standard		
MasterTrak Telematics		Standard			Standard			Standard		
110% Containment		Standard			Standard			Standard		
Oversized Air Filtration		Standard			Standard			Standard		
Running Gear		Standard			Standard			Standard		
DIMENSIONS WITH RUNNING GEAR										
Length - in (mm)		220.7 (5606)			259.4 (6588)			259.4 (6588)		
Width - in (mm)		82.9 (2105)			85.2 (2165)			90.9 (2309)		
Height - in (mm)		105 (2667)			112 (2845)			113.5 (2883)		

DOOSAN

Experience Doosan Portable Power and our industry-leading support and service. Whatever the job, we have the solution. From our comprehensive range of reliable air compressors, to lighting systems and generators, we have a solution to fit your needs. Running a successful business takes more than powerful equipment. That's why Doosan Portable Power partners with an experienced dealer network to stand beside you every step of the way. Doosan Portable Power — more than 100 years of providing excellence.



Doosan Portable Power
1293 Glenway Drive
Statesville, NC 28625
DoosanPortablePower.com

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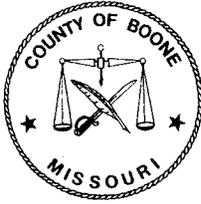
Warranty

Standard Warranty:

1 year / 2,000 hours: Machine
Engines: Doosan - 3 year / 3,000 hours or 1 year / unlimited hours
Others: 2 year / 4,000 hours or 1 year / unlimited hours
Alternator: 2 year / 4,000 hours



Product improvement is a continuous goal at Doosan Infracore Portable Power. Specifications and design are subject to change without notice or obligation. Warranty terms and conditions on new product sales are subject to change. All products are subject to the terms of the applicable warranty in effect on the date of purchase; contact your local Doosan dealer for the current applicable warranty. Doosan™ and the Doosan logo are registered trademarks of Doosan Corp. in the United States and various other countries around the world.



Request for Bid (RFB)

Boone County Purchasing
613 E. Ash Street, Room 109
Columbia, MO 65201

Robert Wilson, Buyer
Phone: (573) 886-4393 – Fax: (573) 886-4390
Email: RWilson@boonecountymo.org

Bid Data

Bid Number: **49-07DEC18**
Commodity Title: **60kW Trailer Mounted Generator**

DIRECT BID FORMAT OR SUBMISSION QUESTIONS TO THE PURCHASING DEPARTMENT

Bid Submission Address and Deadline

Day / Date: **Friday, December 7, 2018**
Time: **1:30 p.m. Central Time (Bids received after this time will be returned unopened)**
Location / Address: **Boone County Purchasing
613 E. Ash Street, Room 109
Columbia, MO 65201**

Bid Opening Address and Deadline

Day / Date: **Friday, December 7, 2018**
Time: **1:30 p.m. Central Time (Bids received after this time will be returned unopened)**
Location / Address: **Boone County Purchasing
613 E. Ash Street, Room 109
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**
Instructions for Compliance with House Bill 1549
Work Authorization Certification
Certification of Individual Bidder
Affidavit (Individual Bidder Certification)
Debarment Certification
Standard Terms and Conditions
“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**
 - 1.2.1. **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.
 - 1.2.2. **Bidder / Contractor / Supplier** - These terms refer generally to businesses having some sort of relationship 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/s entities which may provide the subject goods and/or services.
 - 1.2.3. **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.
 - 1.2.4. **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 or fax, 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 Amendments are binding, but any oral communications between County and Bidder are not.
 - 1.3.1. **Bidder Responsibility** - The Bidder is expected to be thoroughly familiar with all specifications and requirements of this Bid. Bidders' 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.
 - 1.3.2. **Bid Amendment** - If it becomes evident that this Bid must be amended, the Purchasing Department will issue a formal written Amendment to all known prospective Bidders. If necessary, a new due date will be established.
- 1.4. **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. The County reserves the right to compare the lowest bid received with the current State contract pricing, and award in the best interest of the County.
- 1.5. **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.
 - 1.5.1. **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.
- 1.6. **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

- 2.1. **ITEMS TO BE PROVIDED** - Boone County, hereafter referred to as "County", proposes to contract with an individual(s) or organization(s), hereinafter referred to as "Contractor" for the furnishing and delivery of a **60KW Trailer Mounted Generator** for Boone County, Missouri, Office of Emergency Management.
- 2.2. **Delivery Terms:** Delivery shall be made FOB Destination with freight charges fully included and prepaid. The seller pays and bears the freight charges.
- 2.3. **CONTRACT DURATION** - The contract shall be effective from the date of award until the date of project completion.
- 2.4. **CONTRACT DOCUMENTS** - The successful bidder(s) shall be obligated to enter into a written contract with the County within 30 days of award on contract forms provided by the County. If bidders desire to contract under their own written agreement, any such proposed agreement shall be submitted in blank with their bid. County reserves the right to modify any proposed form agreement or withdraw its award to a successful bidder if any proposed agreement contains terms and conditions inconsistent with its bid or are unacceptable to county legal counsel.
- 2.5. **PRICING** – All prices shall be as indicated on the Response Form. The County shall not pay nor be liable for any other additional costs including but not limited to: taxes, packing, handling, shipping and freight, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.
 - 2.5.1. The unit price for the item identified on the Response Form shall remain fixed for the identified original contract period.
- 2.6. **GENERAL SPECIFICATIONS** – Acceptable Models– Generac MDG75DF4, Multiquip DCA70SSIU4F or equivalent.
 - 2.6.1. **Engine:** 4-cylinder 95hp or greater, final tier 4 compliant. Shall have block heater or other mechanism for operation in cold weather conditions. Unit shall include built in battery charger to maintain battery life.
 - 2.6.2. **Fuel System:** tank size 103-165gallon, DEF tank 7.4 to 11 gallons or greater. Fuel economy shall be 4.4 to 4.85gph.
 - 2.6.3. **Cooling System:** Ambient temp rating from 104 to 107 degrees F, low coolant shutdown, radiator and oil drains plumbed to exterior.
 - 2.6.4. **System Outputs:** Single phase (110/220) and Three phase (240/480) at a minimum. Convenience receptacles to include two (2) 120V 20 Amp GFCI duplex outlets and three (3) 125V 50 Amp, 3 pole, 4 wire twistlock.
 - 2.6.5. **Generator:** 60Hz engine/generator, brushless, 4-pole, Class H insulation, +/- 1% maximum with voltage regulator.
 - 2.6.6. **Enclosure:** Sound attenuated enclosure with 74 dB maximum @ 23 feet. Fully lockable including doors, fuel and DEF fill doors. Emergency stop control to be mounted outside of enclosure.
 - 2.6.7. **System Controls:** controller and display shall be capable of relaying information from the engine and generator system including status of all systems, alarms/warnings for all systems, diagnostics, etc.
 - 2.6.8. **Trailer:** DOT approved with electric brakes. Axle/frame/tires shall be designed for the weight of the load including fuel. Unit shall have 2" receiver hitch, tongue jack with footplate, standard ST tires (prefer 10 ply if available), safety chains with spring loaded safety hooks, RV style electrical connector.
- 2.7. **Warranty** – Unit to come with manufacturer's standard warranty. **Attached detailed description of warranty. Attach warranty for engine if different from the generator.**
- 2.8. **GENERAL CONDITIONS**
- 2.9. **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 sub-contractors 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.

2.10. **SPECIAL CONDITIONS AND REQUIREMENTS**

2.10.1. **Invoices** - The County's BID number should appear on the invoice.

2.10.2. **Billing and Payment** - Payment shall be made at the contract unit price of each of the pay items included in the Contract and will be considered full compensation for all labor, material, and equipment. An invoice should be submitted to Boone County Emergency Management for payment after project completion. The billing address is Boone County Emergency Management, 2145 County Drive, Columbia, MO 65202.

2.11. **BID CLARIFICATION** –Any questions or clarifications concerning bid documents should be addressed in writing, PRIOR TO BID OPENING, to Robert Wilson, Buyer, 613 E. Ash Street, Room 109, Columbia, Missouri 65201. Phone: (573) 886-4393; Fax: (573) 886-4390 or Email: RWilson@boonecountymo.org.

2.12. **DESIGNEE: Boone County Emergency Management**

2.13. **AWARD OF CONTRACT** - The County of Boone reserves the right to accept or reject any and all bids in the best interest of the County.

3. Response Presentation and Review

- 3.1. **RESPONSE CONTENT** - In order to enable direct comparison of competing Responses, you must submit your Response in strict conformity to the requirements stated here. Failure to adhere to all requirements may result in your 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" or "No Bid". 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 noted on the title page under "Bid Submission Information and Deadline". NO EXCEPTIONS. We are not responsible for late or incorrect deliveries from the US Postal Service or any other mail carrier.
 - 3.2.1. **Submittal Package** - Submit, to the location specified on the title page, **three (3) complete copies** of your Response in a single sealed envelope or by fax, clearly marked with your company name and return address, the proposal number and the due date and time.
 - 3.2.2. **Advice of Award** - A Bid Tabulation of responses received as well as Award status can be viewed at www.showmeboone.com.
- 3.3. **BID OPENING** - On the date and time and at the location specified on the title page under "Bid Opening", all Responses will be opened in public. Brief summary information from each will be read aloud.
 - 3.3.1. **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 reasons 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.
- 3.4. **RESPONSE CLARIFICATION** - We reserve the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.
 - 3.4.1. **Rejection or Correction of Responses** - We reserve 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.
- 3.5. **EVALUATION PROCESS** - Our 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 Contractor selected appears to offer the best overall solution for our current and anticipated needs at the lowest possible cost.
 - 3.5.1. **Method of Evaluation** - We will evaluate submitted responses in relation to all aspects of this Bid.
 - 3.5.2. **Acceptability** - We reserve the sole right to determine whether goods and/or services offered are acceptable for our use.
 - 3.5.3. In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.
 - 3.5.4. **Endurance of Pricing** - Your pricing must be held until contract execution or 60 days, whichever comes first.

4. **Response Form**

4.1. Company Name: _____

4.2. Address: _____

4.3. City/Zip: _____

4.4. Phone Number: _____

4.5. Fax Number: _____

4.6. E-mail: _____

4.7. Federal Tax ID: _____

4.7.1. () Corporation

() Partnership - Name _____

() Individual/Proprietorship - Individual Name _____ (If Individual, Bidder must complete Certification of lawful presence in U.S. on attached form).

() Other (Specify) _____

4.8. PRICING

Unit Price

4.8.1. **Base Bid:** 60 KW Trailer Mounted Generator as specified per section 2.

\$ _____

Make / Model #:

4.9. DESCRIBE WARRANTY (or attach)

4.10. Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?

_____ Yes _____ No

4.11. **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.**

4.11.1. **Authorized Representative (Sign By Hand):**

_____ Date: _____

4.11.2. **Print Name and Title of Authorized Representative**



Standard Terms and Conditions

Boone County Purchasing
613 E. Ash Street, Room 109
Columbia, MO 65201
Jacob M. Garrett, Buyer
Phone: (573) 886-4393 – Fax: (573) 886-4390

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. The resulting contract will be considered "Non-Exclusive". The County reserves the right to purchase from other vendors.
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.
20. For all bid responses over \$25,000, if any manufactured goods or commodities proposed with bid/proposal response are manufactured or produced outside the United States, this **MUST** be noted on the Bid/Proposal Response Form or a Memo attached.

Boone County Purchasing

Robert Wilson
Buyer



613 E. Ash Street, Room 113
Columbia, MO 65201
Phone: (573) 886-4393
Fax: (573) 886-4390

"NO BID" RESPONSE FORM

NOTE: COMPLETE AND RETURN THIS FORM ONLY IF YOU DO NOT WISH 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. The reverse side of the form is pre-addressed, so that it can be folded in thirds, sealed with tape, and mailed. *If you would like to FAX this "No Bid" Response Form to our office, the FAX number is (573) 886-4390.*

If you have questions, please call the Purchasing Office at (573) 886-4392. Thank you for your cooperation.

Bid Number: **49-07DEC18 – 60kW Trailer Mounted Generator**

(Business Name)

(Date)

(Address/P.O. Box)

(Telephone)

(City, State, Zip)

(Contact)

REASON(S) FOR NOT SUBMITTING A BID:

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ca.

February Session of the January Adjourned

Term. 20 19

County of Boone

In the County Commission of said county, on the

5th

day of

February

20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the attached Sole Source Approved Vendor List for 2019.

Done this 5th day of February 2019.

ATTEST:

Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill
Presiding Commissioner

Fred J. Parry
Fred J. Parry
District I Commissioner

Janet M. Thompson
Janet M. Thompson
District II Commissioner

Boone County Purchasing

Melinda Bobbitt, CPPO
Director of Purchasing



613 E. Ash St, Room 110
Columbia, MO 65201
Phone: (573) 886-4391
Fax: (573) 886-4390

TO: Boone County Commission
FROM: Melinda Bobbitt, CPPB
DATE: February 4, 2019
RE: Sole Source Approved Vendor List for 2019

Purchasing has received requests from departments/offices to renew on-going sole source approvals. We are requesting approval to renew the attached list of sole source vendors for another year ending on December 31, 2019. The 2019 list of vendors was advertised in the Columbia Missourian and Columbia Tribune on January 22, 2019.

ATTACHMENT: 2019 Sole Source List

2019 SOLE SOURCE APPROVAL			Commission Order #				
Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Aldon Computer Group a Subsidiary of Rocket Software, Inc.	Information Technology	Maintenance for Aldon Computer Software - Rocket Software - Life Cycle Manager	On-going on maintenance	10/23/12 - Dan Atwill; c.o. 518-2012	\$8,993.00	Yes	110-123113SS (renewed through 12/31/19)
Alive Telecom	Joint Communications	Multi-Section Base Station Antennas	12/31/2016 (3 renewals)	C.O. 174-2015	\$12,000.00	Yes	121-123116SS (renewed through 04/30/19)
Axon Enterprise (used to be Taser International)	Sheriff	Tasers and Cartridges (used to buy on sole source 116-123114ss)	On-Going		\$5,378.56		127-123116SS (renewed through 12/31/18)
Blue Valley Public Safety Inc.	Emergency Management	Siren Maintenance	On-Going on Maintenance		\$43,632.00		124-123116SS (renewed through 12/31/19)
C&C Group (used to be Invensys Building Sytems)	Facilities Maintenance	Temperature control system Service Agreement for HVAC located at the Boone County Court House, Government Center and Jail to monitor existing Invensys's equipment.	On-Going	4/18/02 - Karen Miller		Yes	18-123102 (renewed through 12/31/19)
CarteGraph	Road & Bridge	Upgrade of existing work order and asset management software system. Add Storm Inlets Module.	On-going on maintenance & yearly subscription		\$62,995.28		137-123117SS (expires 12/31/19)
Cellebrite USA, Inc.	Sheriff	Annual software service for (2) UFED Touch Ultimate Kits (for cellular device forensics)	On-going for annual support		\$6,396.00		136-123116SS (renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Central Square Technologies (formerly Superion)	Information Technology	Computer Aided Dispatch System (CAD)	On-going for upgrades and maintenance	6/23/2016	\$671,142.00	Yes	129-123116SS (Renewed through 03/31/19)
CenturyLink	Joint Communication	Cassidian Communications(formerly CML) Sentinel Patriot - upgrading E911 system making it NG911 (Next Generation) capable and replacing the ANI/ALI Controller	On-going on maintenance	8/16/2011	\$597,745.96	Yes	105-123111SS (renewed through 12/31/19)
CenturyLink	Information Technology / Purchasing	Centrex Phone System	On-Going	7/26/2012 - Dan Atwill	\$61,428.00	Yes	109-123112SS (renewed through 1/31/19)
City of Columbia Water and Light	Information Technology	Fiber Optic Cable Installation and Lease	On-going	12/20/04 - Skip Elkin		Yes	51-123105 (renewed through 12/31/19)
Collective Data	Road & Bridge	Annual Software Support, Maintenance, and Insurance for CollectiveFleet Software	1/20/2020		\$10,725.20		145-012020SS
Corrective Asphalt Materials, LLC	Resource Management	Reclamite Preservative Seal	1/31/2023		\$0.84/yd ² Pre-Sweeping: 0.03/yd ² Post Sweeping: \$0.05/yd ²	Yes	117-123118SS (expires 01/31/19)
Corsair Controls	Sheriff	Upgrade to Jail Door Locking System	On-Going	8/1/06 - Skip Elkin		Yes	70-123106SS (renewed through 12/31/19)
Cybernetics	Information Technology	Virtual Tape Disk Backup (D2D2T)	On-Going on Maintenance	1/28/05 - Karen Miller	\$1,935.00	Yes	55-123105 (renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Applied Power Systems is the exclusive representative for Eaton Corporation	Joint Communications	Uninterruptible Power Supply (UPS) maintenance plan; equipment	On-Going		\$2,795.00		133-123116SS (renewed through 12/31/19) Rebid in 2019 - we've had a vendor say they can provide this plan. William Cox. United Power & Battery. Phone: 800-306-1125, extension 5533. wcox@unitedpowerups.com
Election Systems & Software, Inc.	Boone County Clerk	Election Ballot Stock	On-Going	Don Stamper - 5/7/02	\$.09/sheet - varies by election - over \$10,000	Yes	21-123102 (renewed through 12/31/19)
Election Systems & Software, Inc.	Boone County Clerk (Elections & Voter Registration)	Voting Equipment Supplies and Equipment Maintenance	On-Going		Varies by election		112-123113SS (renewed through 12/31/19)
Entrinski Inc.	Information Technology	Informer Web Reporting Software and Dashboards	On-Going		\$36,555.00		135-123116SS (renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Federal Signal	Emergency Management	Sirens	10/31/2018		Term & Supply		143-103118SS (renewed through 10/31/19)
First Christian Church	Facilities	Parking Lot Rental	On-Going	3/8/11 C.O. 89-2011	\$17,000.00	Yes	102-123111SS (renewed through 12/31/19)
GeoComm Inc.	Information Technology	GeoLyn Server Dispatch Mapping (CAD Software)	On-Going		\$177,288.00		138-123117SS (expires 2/29/20)
GW Van Keppel	Road & Bridge	Repair and parts for Chip/Seal Spreader and oil distributor	On-Going	12/18/2001		Yes	07-123102 (renewed through 12/31/19)
Henke Manufacturing Corporation	Road & Bridge	Snow Plow Parts	On-Going	Ken Pearson 12/30/10 - C.O. 610-2010		Yes	100-123111SS (renewed through 12/31/19)
Informer Systems	Joint Communications	Schedule Express Subscription Services	On-Going	9/26/17 C.O. # 423-2017	\$9,720.00	Yes	140-123117SS (expires 8/31/19)
International Academies of Emergency Dispatch (IAED)	Joint Communications	Re-certification for 911 operators and renewal of departmental accreditations	On-Going		Up to \$10,000/year		131-123116SS (renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Knapheide Truck Equipment Company	Road & Bridge	Hydraulic Parts and Repairs for Heavy Trucks	On-Going	2/5/02 - Karen Miller		Yes	13-123102 (renewed through 12/31/19)
L-3 Communications (Mobile Vision)	Sheriff	Video Camera Systems for Patrol Cars and body worn video cameras plus yearly maintenance agreement	On-going	c.o. 11-2009		Yes	84-123109SS (renewed through 12/31/19)
Locution Systems LLC	Joint Communications	Prime Alert Rdio PTT System and PrimeAlert Radio System PCs	One-time, then on-going on maintenance		\$179,300.00		139-123117SS (expires 12/14/19)
Maintenance Connection	Facilities Maintenance	Work Order Management Software Maintenance	On-going on maintenance	5/1/2012	\$2,696.00	Yes, C.O. 220-2012	108-123112SS (expires 12/31/19)
Michaels, Ross and Cole, Ltd.	Information Technology	Maintenance & Warranty Agreement for m-Power Database Licenses	On-Going	3/31/15 - c.o. 134-2015	\$9,108.00	Yes	120-123115SS (renewed through 12/31/19)
Mobilis Technologies	Recorder of Deeds	Software Maintenance for iRecord System	On-Going	1/17/2008		Yes - C.O. 41-2008	79-123108SS (renewed through 12/31/19)
Priority Dispatch	Joint Communications	Licenses & maintenance for call taking software system (ProQA) and Quality Assurance software (AQUA); National Q quality assurance program (call review service); training courses	On-Going		\$116,000.00		134-123116SS (renewed through 3/30/19)
PTS Solutions, Inc. (formerly I/TX Information Technology Solutions, Inc.)	Information Technology	SI-3000 System - (Mugshot) Software Maintenance Agreement	On-Going	11/21/02 - Don Stamper - Commission Order 489-2002	6700 (10,007.64 for 2009)	Yes - CO 489-2002	29-123103 (Renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Rave Wireless, Inc. (Rave Mobile Safety)	Joint Communications	Smart911 Subscription	6/29/15 (2 renewals)	7/22/14 Dan Atwill	\$20,000/yr	Yes, C.O. 354-2014	114-063015SS (renewed through 12/31/19)
Real Vision Software, Inc.	Information Technology	Annual software support for Real Vision Software IBM Power System	On-Going	6/21/11 - Ed Robb	\$4,500.00	C.O. 232-2011	104-123111SS (renewed through 12/31/19)
Rife, Tom and Isabel	Facilities	Parking Lot Rental - lot 355 & lot 348 in close proximity to the Boone County Government Center	On-Going	1/12/10 - Ken Pearson, c.o. 38-2010		Yes	93-123110SS (renewed through 12/31/18)
Source Molecular	Resource Management	E-Coli Bacterial DNA Water Testing	On-Going	12/5/17 - Daniel Atwell	\$9,072.00	C.O. 535-2017	141-123117SS (expires 12/31/19)
Stenograph, LLC	Court Administration	Software Support of Stenograph software for court reporter steno machines	On-Going	3/24/05 - Skip Elkin	\$1,425.00	Yes	59-123105 (Renewed through 12/04/20)
Sutron	Resource Management	Accubar constant flow bubbler w/temperature sensor and enclosure (for Greater Bonne Femme Watershed)	On-Going		\$17,433.00		125-043017SS (expires 04/30/19)
Sydenstricker Implement Company	Road & Bridge	John Deere tractor service	On-Going	2/28/2009		Yes - C.O. 349-2009	88-123109SS (renewed through 12/31/19)

Vendor Name	Originating Office	Product Description	Expiration Date	Date signed by Commission	Purchase Price	Approved Y/N	Sole Source #
Sympro Inc.	Treasurer	Annual Maintenance and Support Renewal - Sympro Treasury Mgt Software	On-Going	5/23/06 - Skip Elkin		No	66-123106SS (renewed through 12/31/19)
Teamintel, LLC	Sheriff	STC-25 cellular transmission and recording device	One-Time	6/25/2015	\$8,040.00	Yes - C.O. 262-2015	119-033115SS (renewed through 12/31/19)
Tech Global	Information Technology	Dynamic Touch Monitors	On-Going		\$29,750.00		132-123116SS (renewed through 12/31/19)
The Hoosier Company	Resource Management	NC-97 Speed Classifier Traffic Counters	On-Going	1/31/08 - Ken Pearson		Yes - C.O. 66-2008	80-123108SS (renewed through 12/31/19)
TX-RX Systems Inc (a unit of Bird Technologies)	Joint Communications / Commission	Radio Signal Equipment	On-Going	4/28/2015	\$0.00	C.O. 188-2015	122-123115SS (renewed through 12/31/19)
Worksright Software, Inc.	Information Technology	Maintenance on Per Postal Software - per Zip/Per Sort	On-Going	1/8/2009		Yes - C.O. 4-2009	86-123109SS (renewed through 12/31/19)
Blue color signifies last number used.							

Details
Only source for annual software updates and maintenance on existing software.
Multi-section tower mounted antennas used in land mobile/two-way radio system to accommodate system needs for PSJC transmit sites. Custom making for Boone County to match existing.
Vendor sells direct. No distributors. Proprietary.
Only authorized service center for Missouri for Federal Signal Corporation brand equipment
Used for upgrades to existing vendor specific software. Only available from this vendor.
Currently use Cartegraph Navigator software thus existing work and asset data can be more easily utilized in the upgraded version (OMS).
Cellebrite is the sole provider of devices and annual support.

Details
CAD must be compatible and integrate with existing software including Naviline Select RMS and SunGuard Jail Management Systems.
Only source for upgrade to existing equipment.
Sole source for existing phone system equipment.
Only feasible source for existing fiber optic cables at Johnson Bldg, Child Support, Road & Bridge & Sheriff Dept.
Sole source for maintenance on existing software
Only 1 distributor services the region
Only source of equipment compatible with existing system
Only manufacturer of technology that supports existing system

Details

Only authorized service support provider for proprietary Eaton UPS products

Only production source for copyrighted ballot stock that is compatible with existing ballot scanners.

Only source available for maintenance on existing ES&S equipment.

This software has been used for years to create a catalog of reports across multiple user agencies. To use all features of the existing reports, we will need to process them in Informer which is proprietary to Entrinsik.

<p style="text-align: center;">Details</p>
<p>We have Federal Signal brand (Federal Commander Digital System) components and other siren systems cannot be combined. Federal Signal is the sole proprietor of that brand. Blue Valley Public Safety will be doing the installation and providing maintenance. Blue Valley has a cooperative contract through MARC.</p>
<p>Only source available for lease of specific lot in close proximity to Government Center.</p>
<p></p>
<p>Made-to-order machine maintenance; Only authorized distributor for parts/repair on Entyre Equipment in MO/KS.</p>
<p>Only source for comprehensive list of parts and repair for snow plows purchased from this vendor.</p>
<p>Subscription service is the only scheduling software that possesses unique features needed by the Boone County Joint Communications Office per the 8/17/17 letter from Mark Musick, CEO of Informer Systems</p>
<p>Service is proprietary. Non-profit Accreditation agency, sets the standards for accreditation and certification.</p>

Details
Only authorized dealer for parts/repairs of Knapheide equipment in our area
Only one source available for maintenance on existing systems purchased by this vendor.
Specialized computer based hardware system used for dispatching emergency calls at ECC
Software support and maintenance for existing equipment/software purchased from this vendor.
Only source for maintenance of database licenses
Only source for maintenance of existing equipment.
Only contracts provider of protocol systems of the accrediting agency, International Academies of Emergency Dispatch (IAED)
Only known source for critical system upgrades and online tech support for the existing mugshot system purchased from this vendor

Details
Subscription for Smart911 - access to citizen information. Citizens can enter any information that they want 911 to have about their residence/family.
Only source available for software support and updates to software purchased from RVI
Only source available for lease of specific lot in close proximity to Government Center.
Source Molecular is the only commercial laboratory producing US EPA developed and patented microbial source tracking markers for human, dog, cow and chicken associated bacteroidetes. This kind of testing is needed by the County to address high E-Coli levels in County streams cited by Missouri DNR for contaminants.
Sole source for maintenance on existing court reporter software.
Equipment is proprietary, they have no authorized resellers and work must be performed by their technicians to maintain a valid warranty.
Sydenstricker is the only feasible source available to provide repair service in our local area. There are other John Deere service centers in Missouri, but the cost of transporting would be prohibitive.

Details
Only source to provide maintenance to the existing software.
Only source to provide these camera systems using cellular technology used by Sheriff Dept for this application
Only source that can provide the Dynamic touch monitors that go with the Viper System at the ECC
Only one authorized dealer in our area / compatible with existing equipment.
System components must be compatible with existing system. Customized to us to be unique to our equipment.
Workwright is the only vendor that can supply software upgrades to the existing software which was purchased from them.

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

County of Boone

} ea.

February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the 5th day of February 20 19

the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby award bid 51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri to R & S Tower Services, Inc. of Union, Missouri.

Terms of the award are stipulated in the attached Purchase Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Purchase Agreement.

Done this 5th day of February 2019.

ATTEST:

Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill

Presiding Commissioner

Fred J. Parry
Fred J. Parry

District I Commissioner

Janet M. Thompson
Janet M. Thompson

District II Commissioner

Boone County Purchasing

Melinda Bobbitt, CPPO, CPPB
Director of Purchasing



613 E. Ash St., Room 110
Columbia, MO 65201
Phone: (573) 886-4391
Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Melinda Bobbitt, CPPO, CPPB
DATE: January 23, 2019
RE: Bid Award Recommendation: *51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri*

Request for Bid *51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri* closed on December 17, 2018. Two bids were received. Dave Dunford, our Radio Consultant, recommends award to R & S Tower Services, Inc. of Union, MO for offering the lowest and best bid.

Total contract amount is \$32,000 and will be paid from department 2706– Radio Network Improvements, account 91300 – Machinery & Equipment. \$504,194 is budgeted for the entire project. The engineer's estimate for this project was \$34,000.

Attached is a Bid Tabulation for your review.

ATT: Bid Tab

cc: Bid File
Dave Dunford, Radio Consultant
Chad Martin / Patricia Schreiner, Joint Communications

BID TABULATION: 51-17DEC18 - ASSEMBLY AND ERECTION FOR RADIO TOWER IN HALLSVILLE, MISSOURI

<u>Item #</u>	<u>Description</u>	<u>WIRELESS U.S.A.</u>	<u>R&S Tower Services, Inc.</u>
4.01.	Radio Tower Assembly and Erection per the Requirements Stated in the RFB.	\$52,000.00	\$32,000.00
4.02.	How many days after Notice to Proceed will work begin?	14 WORKING DAYS	14 WORKING DAYS
4.03.	How many days after Notice to Proceed will work be completed?	25 WORKING DAYS	7 WORKING DAYS
4.04.	List Subcontractors Name, Address, and Work Assigned.	ABOVE ALL TOWERS 105 N. ALLEN ST. BONNE TERRE, MO 63628	CK CRANE, PO BOX 782, UNION, MO 63084

**PURCHASE AGREEMENT
FOR
ASSEMBLY AND ERECTION FOR RADIO TOWER IN HALLSVILLE, MISSOURI**

THIS AGREEMENT dated the 5th day of February 2019 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and **R & S Tower Services, Inc.**, herein "Vendor."

IN CONSIDERATION of the parties performance of the respective obligations contained herein, the parties agree as follows:

1. **Contract Documents** - This agreement shall consist of this Purchase Agreement for assembly and erection for a radio tower in Hallsville, Missouri, County of Boone Request for Bid **51-17DEC18** with addendums #1 - 2, the Vendor's bid response dated December 13, 2018, executed by Gregg Bauer on behalf of the Contractor. All such documents shall constitute the contract documents which are attached hereto and incorporated herein by reference. Service or product data, specification and literature submitted with bid response may be permanently maintained in the County Purchasing Office bid file for this bid if not attached. In the event of conflict between any of the foregoing documents, the terms, conditions, provisions and requirements contained in the bid specifications and addendums shall prevail and control over the Contractor's bid response.

2. **Purchase** – Contractor agrees to provide assembly and erection of a radio tower in Hallsville, Missouri per the requirements stated in the Request for Bid and addendums for a contract total of Thirty-Two Thousand Dollars (\$32,000.00).

3. **Delivery** - Contractor agrees to begin work within fourteen (14) days after receipt of Notice to Proceed and to complete the work within seven (7) days after receipt of Notice to Proceed.

4. **Billing and Payment** - All billing shall be invoiced to Boone County Joint Communications, 2145 E. County Drive, Columbia, MO 65202. All billings may only include the prices listed in the vendor's proposal response. No additional fees for paper work processing, labor, or taxes shall be included as additional charges in excess of the charges in the Vendor's proposal response to the specifications. The County agrees to pay all invoices within thirty days of receipt. In the event of a billing dispute, the County reserves the right to withhold payment on the disputed amount; in the event the billing dispute is resolved in favor of the Vendor, the County agrees to pay interest at a rate of 9% per annum on disputed amounts withheld commencing from the last date that payment was due.

5. **Binding Effect** - This agreement shall be binding upon the parties hereto and their successors and assigns for so long as this agreement remains in full force and effect.

6. **Termination** - This agreement may be terminated by the County upon thirty days advance written notice for any of the following reasons or under any of the following circumstances:

- a. County may terminate this agreement due to material breach of any term or condition of this agreement, or
- b. County may terminate this agreement if in the opinion of the Boone County Commission if delivery of products or services are delayed or products delivered are not in conformity with proposal specifications or variances authorized by County, or
- c. If appropriations are not made available and budgeted for any calendar year.

IN WITNESS WHEREOF the parties through their duly authorized representatives have executed this agreement on the day and year first above written.

R & S TOWER SERVICES, INC.

by  _____
DocuSigned by:
581CAC336243453...

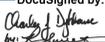
title _____
President

BOONE COUNTY, MISSOURI

by: Boone County Commission

 _____
DocuSigned by:
BA4B9846FD6E4EB
Daniel K. Atwill, Presiding Commissioner

APPROVED AS TO FORM:

 _____
DocuSigned by:
88F1A0D60AC64F5
County Counselor

ATTEST:

 _____
DocuSigned by:
7D62DA686BF8495
County Clerk

In accordance with RSMo 50.660, I hereby certify that a sufficient unencumbered appropriation balance exists and is available to satisfy the obligation(s) arising from this contract. (Note: Certification of this contract is not required if the terms of this contract do not create a measurable county obligation at this time.)

 _____
DocuSigned by:
159943C4E0EA430

Signature

1/24/2019

Date

2706-91300 - \$32,000.00

Appropriation Account

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

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. The resulting contract will be considered "Non-Exclusive". The County reserves the right to purchase from other vendors.

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 bid responses over \$25,000, if any manufactured goods or commodities proposed with bid/proposal response are manufactured or produced outside the United States, this MUST be noted on the Bid/Proposal Response Form or a Memo attached.
19. **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.
20. **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.

County of BoonePurchasing Department**4. Response Form**

Company Name: R&S Tower Services, Inc.
 Address: 4630 West Florissant Aveune
 City/Zip: St. Louis, MO 63115
 Phone Number: 314-899-9444
 E-Mail: brittney.smith@rnstower.com
 Fax Number: 844-357-6444

Federal Tax I.D. 81-2330220
 Corporation
 Partnership – Name _____
 Individual/Proprietorship – Individual Name _____
 Other (Specify) _____

4.00 PRICING

- 4.01. Assembly and Erection of Radio Tower in Hallsville, Missouri per the requirements stated herein.
 \$ 32,000.00 /LUMP SUM
- 4.02. Work will begin on project 14 days after receipt of Notice to Proceed.
- 4.03. Work will be completed 7 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.

<u>Subcontractor Name/Address</u>	<u>Work Assigned</u>
<u>C K Crane Services, P.O. Box 782, Union, MO 63084</u>	<u>Hoisting Tower</u>
_____	_____

- 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: December 13, 2018

Print Name and Title of Authorized Representative:
Gregg Bauer, President

e-mail: Gregg.Bauer@rnstower.com

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: **R&S Tower Services, Inc.**
- 2. Business Address: **4630 West Florissant Aveune, St. Louis, MO 63115**
- 3. When Organized: **April 2016**
- 4. When Incorporated: **April 2016**
If not incorporated, state type of business (sole proprietor, partnership, or other) _____
- 5. List federal tax identification number: **81-2330220**
- 6. Number of years engaged in business under present firm name: **Two**
- 7. If you have done business under a different name, please give name and business location under that name: **N/A**
- 8. Percent of work done by own staff: **100% of tower erection, 0% of tower hoisting**
- 9. Have you ever failed to complete any work awarded to your company? If so, where and why?
No
- 10. Have you ever defaulted on a contract? **No** 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. **T. Steele - Gentry, AR - 200' - \$35,000 ---**
Topeka, KS - 150' - \$25,000 --- Maryland Heights, MO - 130' - \$21,000 ---
Granity City, IL - 180' - \$29,000
- 12. List of projects currently in progress: **T. Steele - West End Vertical Bridge 85' \$15,000**
Wesley House, MO 100' \$18,000 **Freedom Road, AR 150' \$25,000**

Attach additional sheets as necessary

CERTIFICATION OF INDIVIDUAL BIDDER

Pursuant to Section 208.009 RSMo, any person applying for or receiving any grant, contract, loan, retirement, welfare, health benefit, post secondary education, scholarship, disability benefit, housing benefit or food assistance who is over 18 must verify their lawful presence in the United States. Please indicate compliance below. Note: A parent or guardian applying for a public benefit on behalf of a child who is citizen or permanent resident need not comply.

- 1. I have provided a copy of documents showing citizenship or lawful presence in the United States. (Such proof may be a Missouri driver's license, U.S. passport, birth certificate, or immigration documents). Note: If the applicant is an alien, verification of lawful presence must occur prior to receiving a public benefit.
- 2. I do not have the above documents but provide an affidavit (copy attached) which may allow for temporary 90 day qualification.
- 3. I have provided a completed application for a birth certificate pending in the State of _____. Qualification shall terminate upon receipt of the birth certificate or determination that a birth certificate does not exist because I am not a United States citizen.


Applicant

12/13/2018
Date

Gregg Bauer
Printed Name

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

State of Missouri)
)SS.
County of Boone)

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.

12/13/2018
Date


Signature

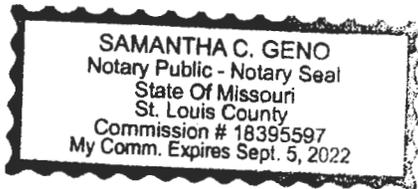
323-78-0909
Social Security Number
or Other Federal I.D. Number

Gregg Bauer
Printed Name

On the date above written Gregg Bauer 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:
September 5, 2022



(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.

Gregg Bauer, President

Name and Title of Authorized Representative

Signature

December 13, 2018

Date

ANTI-COLLUSION STATEMENT

STATE OF MISSOURI

COUNTY OF Boone

Gregg Bauer, being first duly sworn, deposes and

says that he is President
(Title of Person Signing)

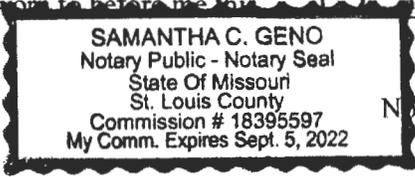
of R&S Tower Services, Inc.
(Name of Bidder)

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 [Signature] By ___
By Gregg Bauer

Sworn to before me this 13 day of December, 20 18



Notary Public

My Commission Expires September 5, 2022

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 Missouri

Dated April, 20 16

Name of individual, all partners, or joint venturers:

Address of each:

Gregg Bauer

2806 Russell Blvd., St. Louis, MO 63104

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.)

R&S Tower Services, Inc.
(If a corporation – show its name above)

ATTEST:


(Secretary)

Brian Bauer, 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 Missouri County of Boone

On this 13th day of December, 20 18

before me appeared Gregg Bauer 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.

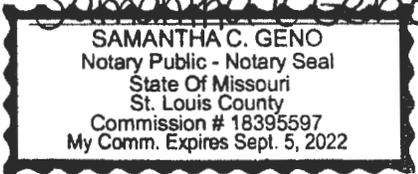
(if a corporation) that he is the

[Signature]

President or other agent

of R&S Tower Services, Inc.; 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, 3:45 pm the day and year first above written. (SEAL)

Samantha C. Geno Notary Public


My Commission expires September 5, 20 22.



BOONE COUNTY, MISSOURI

**Request for Bid (RFB) #51-17DEC18
Assembly and Erection for Radio Tower
in Hallsville, Missouri**

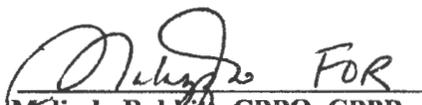
ADDENDUM #1 - Issued December 3, 2018

This addendum is issued in accordance with the RFB paragraph 1.5 and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum ***should be acknowledged*** and submitted with the bidder's sealed bid.

Addendum #1 hereby revises the following requirements and specifications of RFB 51-17DEC18:

- 1. Paragraph 1.02 is **REVISED** as follows:
 - 1.02 ***The Owner will receive, unload, and stow the tower components at the erection site. The tower is a 180' model S3R-SD structure.***
- 2. Paragraph 1.09 is **REVISED** as follows:
 - 1.09 All antennas and coaxial cables will be provided and installed ***by others.***

All modifications are noted in italicized and bolded font.

By:  FOR 12-3-18
Melinda Bobbitt, CPPO, CPPB
Director of Purchasing

The Bidder has examined Addendum #1 to Request for Bid# ***51-17DEC18*** – **Assembly and Erection for Radio Tower in Hallsville, Missouri**, receipt of which is hereby acknowledged:

Company Name: **R&S Tower Services, Inc.**

Address: **4630 West Florissant Ave., St. Louis, MO 63115**

Phone Number: 314-899-9444

Fax Number: 844-357-6444

E-mail: brittney.smith@rnstower.com

Authorized Representative Signature: 

Date: 12/13/2018

Authorized Representative Printed Name: Brittney Smith



BOONE COUNTY, MISSOURI

**Request for Bid (RFB) #51-17DEC18
Assembly and Erection for Radio Tower
in Hallsville, Missouri**

ADDENDUM #2 - Issued December 5, 2018

This addendum is issued in accordance with the Request for Bid and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum **should be acknowledged** and submitted with the bidder's sealed bid.

The County has received the following question and is providing a response below:

In the scope of work, it states to assemble and erect the tower with mounts and platform at the top. It does not mention pouring the foundation directly. However, it does give the specifications for it in the information from Sabre. Are we to include installing the foundation as well or is that going to be done by others? If it is to be included, do you have the soil test report as well?

Response: The foundation work will be done by others. This bid is solely for assembling and erecting the tower steel.

By: Melinda Bobbitt
Melinda Bobbitt, CPPO, CPPB
Director of Purchasing

The Bidder has examined Addendum #2 to Request for Bid# 51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri, receipt of which is hereby acknowledged:

Company Name: R&S Tower Services, Inc.

Address: 4630 West Florissant Ave., St. Louis, MO 63115

Phone Number: 314-899-9444

Fax Number: 844-357-6444

E-mail: brittney.smith@rnstower.com

Authorized Representative Signature: Brittney Smith Date: 12/13/2018

Authorized Representative Printed Name: Brittney Smith



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

REQUEST FOR BID (RFB)

Melinda Bobbitt, CPPO, CPPB
Director of Purchasing
(573) 886-4391 – Fax: (573) 886-4390
Email: mbobbitt@boonecountymo.org

Bid Data

Bid Number: **51-17DEC18**
Commodity Title: **Assembly and Erection for Radio Tower in Hallsville, Missouri**

DIRECT ANY BID FORMAT OR SUBMISSION QUESTIONS TO PURCHASING DEPT.

Bid Submission Address and Deadline

Day/Date: **Monday, December 17, 2018**
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 7th & Ash St.**

Bid Opening

Day/Date: **Monday, December 17, 2018**
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

Signature & Identify of Bidder
Bidder's Acknowledgement
Affidavit of Compliance with OSHA
"No Bid" Response Form



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

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

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. The resulting contract will be considered "Non-Exclusive". The County reserves the right to purchase from other vendors.
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 bid responses over \$25,000, if any manufactured goods or commodities proposed with bid/proposal response are manufactured or produced outside the United States, this MUST be noted on the Bid/Proposal Response Form or a Memo attached.
19. **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.
20. **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.

Revised 1/17/2018

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=75bcc2e261405110VgnVCM1000004718190aRCRD>

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 for proof of enrollment.**

If you are an Individual/Proprietorship, then you must return the attached *Certification of Individual Bidder*. On that form, you may do one of the three options listed. Be sure to attach any required information for those options as detailed on the *Certification of Individual Bidder*. If you choose option number two, then you will also need to complete and return the attached form *Affidavit*.



BOONE COUNTY, MISSOURI

**Request for Bid (RFB) #51-17DEC18
Assembly and Erection for Radio Tower
in Hallsville, Missouri**

ADDENDUM #2 - Issued December 5, 2018

This addendum is issued in accordance with the Request for Bid and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum **should be acknowledged** and submitted with the bidder's sealed bid.

The County has received the following question and is providing a response below:

In the scope of work, it states to assemble and erect the tower with mounts and platform at the top. It does not mention pouring the foundation directly. However, it does give the specifications for it in the information from Sabre. Are we to include installing the foundation as well or is that going to be done by others? If it is to be included, do you have the soil test report as well?

Response: The foundation work will be done by others. This bid is solely for assembling and erecting the tower steel.

By: Melinda Bobbitt
Melinda Bobbitt, CPPO, CPPB
Director of Purchasing

The Bidder has examined **Addendum #2** to Request for Bid# **51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri**, receipt of which is hereby acknowledged:

Company Name: _____

Address: _____

Phone Number: _____ Fax Number: _____

E-mail: _____

Authorized Representative Signature: _____ Date: _____

Authorized Representative Printed Name: _____



BOONE COUNTY, MISSOURI

**Request for Bid (RFB) #51-17DEC18
Assembly and Erection for Radio Tower
in Hallsville, Missouri**

ADDENDUM #1 - Issued December 3, 2018

This addendum is issued in accordance with the RFB paragraph 1.5 and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum should be acknowledged and submitted with the bidder's sealed bid.

Addendum #1 hereby revises the following requirements and specifications of RFB 51-17DEC18:

- 1. Paragraph 1.02 is **REVISED** as follows:

1.02 *The Owner will receive, unload, and stow the tower components at the erection site. The tower is a 180' model S3R-SD structure.*
- 2. Paragraph 1.09 is **REVISED** as follows:

1.09 All antennas and coaxial cables will be provided and installed *by others*.

All modifications are noted in italicized and bolded font.

By:  FOR 12-3-18
Melinda Bobbitt, CPPO, CPPB
Director of Purchasing

The Bidder has examined **Addendum #1** to Request for Bid# **51-17DEC18 – Assembly and Erection for Radio Tower in Hallsville, Missouri**, receipt of which is hereby acknowledged:

Company Name: _____

Address: _____

Phone Number: _____

Fax Number: _____

E-mail: _____

Authorized Representative Signature: _____

Date: _____

Authorized Representative Printed Name: _____



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

REQUEST FOR BID (RFB)

Melinda Bobbitt, CPPO, CPPB
Director of Purchasing
(573) 886-4391 – Fax: (573) 886-4390
Email: mbobbitt@boonecountymo.org

Bid Data

Bid Number: **51-17DEC18**
Commodity Title: **Assembly and Erection for Radio Tower in Hallsville, Missouri**

DIRECT ANY BID FORMAT OR SUBMISSION QUESTIONS TO PURCHASING DEPT.

Bid Submission Address and Deadline

Day/Date: Monday, December 17, 2018
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 7th & Ash St.

Bid Opening

Day/Date: Monday, December 17, 2018
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
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4.0: Response Form
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Standard Terms and Conditions
Instructions for House Bill 1549
Work Authorization Certification
Individual Bidder Affidavits
Debarment Form
Anti-Collusion Statement

Bid Contents, continued

Signature & Identify of Bidder
Bidder's Acknowledgement
Affidavit of Compliance with OSHA
"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. The tower is a 180' model S3R-SD structure.
- 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 gravel access up to the actual tower erection site. There will be adequate access for tower material delivery trucks, construction transport trucks, and a mobile crane.
- 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 shall 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 shall 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 180' 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 as shown in the drawings.

2.05 One climbing ladder with safety-climb device will be mounted as shown in the drawings.

2.06 Three microwave dish mounts will be mounted at each of 150', 160', and 170' elevations.

2.07 Three 6' sidearm antenna brackets will be mounted at each of 90' and 125' elevations.

3.00 BID 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 principal 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 voluntary excluded from covered transactions by a Federal department or agency, 2) have not within 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 criminally 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 ensure 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 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.

11.00 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.

12.00 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.

13.00 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.

14.00 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.

15.00 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.

16.00 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.

17.00 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.

18.00 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.

19.00 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.

20.00 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.

21.00 INVOICES: Invoices shall 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.

22.00 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@boonecountymmo.org.

23. Prevailing Wage does not apply to this project since the cost of the project is less than \$75,000.

3. Response Presentation and Review

- 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.
- 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.

County of Boone

Purchasing Department

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. Assembly and Erection of Radio Tower in Hallsville, Missouri per the requirements stated herein.
\$ _____/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.

<u>Subcontractor Name/Address</u>	<u>Work Assigned</u>
_____	_____
_____	_____

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: _____
If not incorporated, state type of business (sole proprietor, partnership, or other) _____
5. List federal tax identification number: _____
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

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

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. The resulting contract will be considered "Non-Exclusive". The County reserves the right to purchase from other vendors.
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 bid responses over \$25,000, if any manufactured goods or commodities proposed with bid/proposal response are manufactured or produced outside the United States, this MUST be noted on the Bid/Proposal Response Form or a Memo attached.
19. **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.
20. **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.

Revised 1/17/2018

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 for proof of enrollment.**

If you are an Individual/Proprietorship, then you must return the attached *Certification of Individual Bidder*. On that form, you may do one of the three options listed. Be sure to attach any required information for those options as detailed on the *Certification of Individual Bidder*. If you choose option number two, then you will also need to complete and return the attached form *Affidavit*.

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.

Name and Title of Authorized Representative

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:

DocuSigned by:
Brianna L Lennon by Mt

7D82DA986BF6497 (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_____.



“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 – Assembly and Erection of Radio Tower in Hallsville, Missouri

Business Name: _____

Address: _____

Telephone: _____

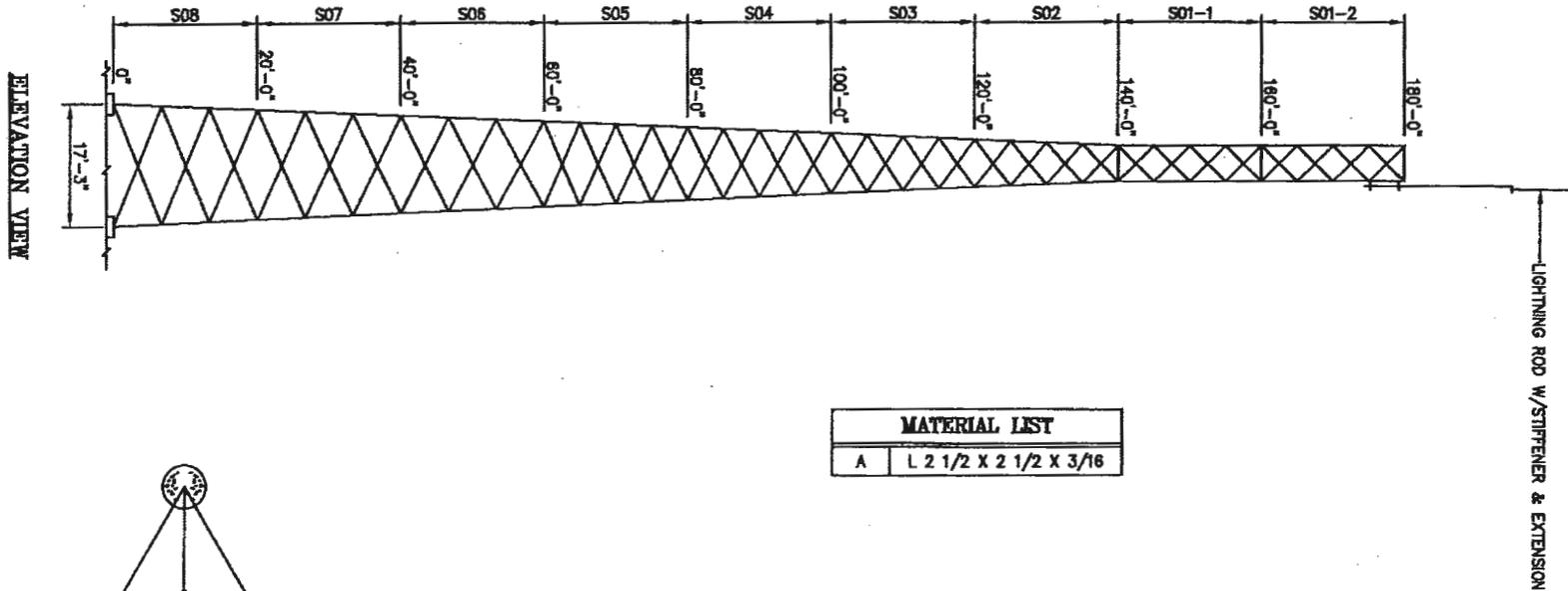
Contact: _____

Date: _____

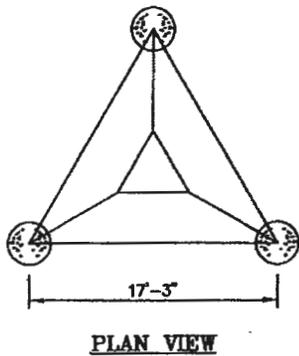
Reason(s) for not bidding:

INSERT DRAWINGS

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.	2.5 S.R.	2.0 S.R.
DIAGONALS	L 3 X 3 X 1/4		L 3 X 3 X 3/16	A	L 2 X 2 X 1/4	L 2 X 2 X 3/16	L 2 X 2 X 1/8	L 2 X 2 X 1/4	L 2 X 2 X 1/8
HORIZONTALS	NONE								
BAYS/SECTION	3 BAYS				4 BAYS				
SECTION WEIGHT	5640 LBS.	5010 LBS.	4457 LBS.	3704 LBS.	3207 LBS.	2599 LBS.	2138 LBS.	1846 LBS.	1165 LBS.



MATERIAL LIST	
A	L 2 1/2 X 2 1/2 X 3/16



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

Sabre Industries
Towers and Poles

CONFIDENTIAL

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MASTER: 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE / B	DRAWING NO. 414025-MS	REV 0
DATE 09/25/18			
DRAWN BY DLK		SCALE NONE	PAGE 1 OF 2
CHECKED BY ZAK V			



DRAWING LIST

- 414025-F1 CAISSON FOUNDATION
- 414025-F2 MAT & PIER FOUNDATION
- C30400129 LEG TO LEG TEMPLATE
- 906195 TOWER BASE INSTALLATION
- 414025-S08 SECTION 0 FT. - 20 FT.
- 414025-S07 SECTION 20 FT. - 40 FT.
- 414025-S06 SECTION 40 FT. - 60 FT.
- 414025-S05 SECTION 60 FT. - 80 FT.
- 414025-S04 SECTION 80 FT. - 100 FT.
- 414025-S03 SECTION 100 FT. - 120 FT.
- 414025-S02 SECTION 120 FT. - 140 FT.
- 414025-S01-1 SECTION 140 FT. - 160 FT.
- 414025-S01-2 SECTION 160 FT. - 180 FT.
- 414025-CL1 16" CLIMBING LADDER INSTALLATION
- 9029450 16" CLIMBING LADDER
- 9031527 LADDER BASE
- 900219 STEP/CONSTRUCTION BOLT INSTALLATION
- SEE MANUAL W/KIT CABLE SAFETY CLIMB DEVICE
- 414025-WG1 WAVEGUIDE LADDER INSTALLATION
- 414025-WG2 WAVEGUIDE LADDER INSTALLATION
- 414025-WG3 WAVEGUIDE LADDER INSTALLATION
- 9028851 WAVEGUIDE LADDER (15 HOLE)
- 9031598 FIXED PLATFORM @ 178'
- 414025-PM1 4 1/2 O.D. PIPE MOUNT KITS @ 170'
- 414025-DT1 STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 170'
- 414025-PM2 4 1/2 O.D. PIPE MOUNT KITS @ 160'
- 414025-DT2 STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 160' (ABOVE SPLICE)
- 414025-PM3 4 1/2 O.D. PIPE MOUNT KITS @ 150'
- 414025-DT3 STIFFARM MOUNT KITS FOR PIPE MOUNTS @ 150'
- 414025-SA1 3' SIDEARMS @ 125'
- 414025-PM4 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 125'
- 414025-ST1 SWIVEL KNUCKLE TIEBACK KITS FOR SIDEARMS @ 125'
- 414025-SA2 3' SIDEARMS @ 90'
- 414025-PM5 4 1/2 O.D. PIPE MOUNT KITS FOR SIDEARMS @ 90'
- 414025-ST2 SWIVEL KNUCKLE TIEBACK KITS FOR SIDEARMS @ 90'
- 414025-LR LIGHTNING ROD W/STIFFENER & EXTENSION
- 9014671 BOLT INSTALLATION
- 906958 TOWER NAME PLATE
- 907901 INVENTORY REQUIREMENT SHEET
- BOM-1 BILL OF MATERIAL

TOWER DESIGN INFORMATION

THIS ERECTION DRAWING PACKAGE IS BASED ON THE STRUCTURAL ANALYSIS NO. 414025.

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, IMPORTANCE FACTOR = 1.25, EXPOSURE CATEGORY C, TOPOGRAPHIC CATEGORY 1.

THE TOWER DESIGN MEETS THE REQUIREMENTS FOR AN ULTIMATE WIND SPEED OF 120 MPH (RISK CATEGORY III), IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.

TOWER DESIGNED ANTENNA LOADING

ELEV.	ANTENNAS	ELEV.	ANTENNAS
188.3'	ATC GD1V40	150'	(2) LEG DISH MOUNT
187.7'	(3) DB809DK-Y	150'	LEG DISH MOUNT
178'	(3) LEG DISH MOUNT	150'	(1) 4' H.P. DISH
178'	PLATFORM - FIXED	150'	(2) 6' H.P. DISH
178'	(3) SP2-5.2	135.3'	ATC GD1V40
170'	(2) LEG DISH MOUNT	125'	(3) 6FT SIDEARMS
170'	LEG DISH MOUNT	115'	3V-BOOM - 12FT FACE - 3FT STANDOFF W/ WORK PLATFORMS
170'	(1) 4' H.P. DISH	115'	(12) 5960110
170'	(2) 6' H.P. DISH	115'	(3) TTA (24IN X 30IN 12IN)
160'	(2) LEG DISH MOUNT	100.62'	(3) DB224
160'	LEG DISH MOUNT	90'	(3) 6FT SIDEARMS
160'	(1) 4' H.P. DISH	55.29'	(3) DB222
160'	(2) 6' H.P. DISH	50'	(3) 3FT SIDEARMS

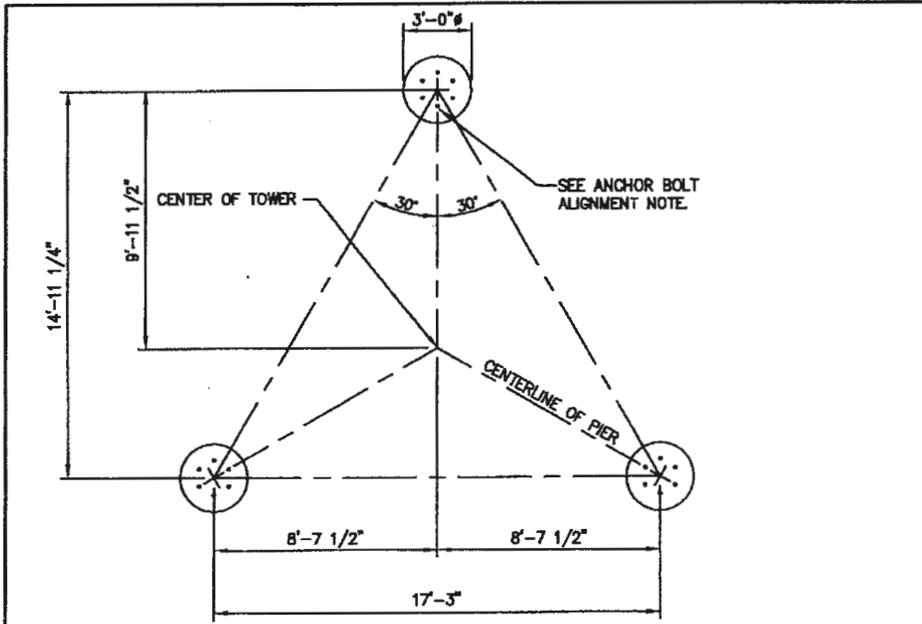
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		INTERNAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DESCRIPTION

Sabre Industries
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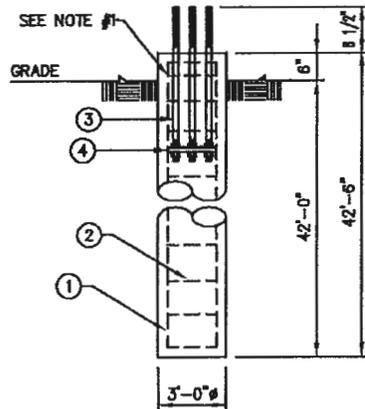
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MASTER: 180 FT. MODEL SSR-SD
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-MS	REV 0
DATE 09/25/18	DRAWN BY DLK	SCALE NONE	PAGE 2 OF 2
CHECKED BY ZAK			



PLAN VIEW



ELEVATION VIEW

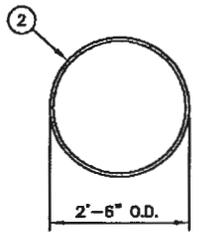
REINFORCING STEEL SCHEDULE								
ITEM	LOCATION	NO. REQ'D.	BAR SPC'G.	SIZE	CUT LGTH.	TOTAL LGTH.	TOTAL WT.	SHAPE
①	PIER VERTICAL REINFORCING	42	EQUALLY SPACED	#10	42'-0"	1764'-0"	7590 LBS.	STRAIGHT
②	PIER TIES	132	SPACED 12" C/C	#4	9'-1"	1199'-0"	801 LBS.	○
TOTAL REBAR WT.							8391 LBS.	

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

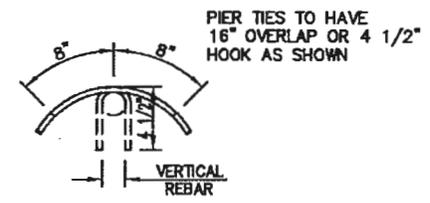
TEMPLATE SCHEDULE			
ITEM	PART NO.	NO. REQ'D.	BOLT CIRCLE
④	C30139210	6	10 1/4"

CONCRETE REQ'D	
PER PIER	11.13 CU. YDS.
TOTAL	33.39 CU. YDS.

SEE PAGE 2 FOR GENERAL NOTES



REBAR DETAIL (PIER TIES)



PIER TIE HOOK DETAIL

PIER TIES TO HAVE 16" OVERLAP OR 4 1/2" HOOK AS SHOWN

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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FOUNDATION: 180 FT. MODEL SSR-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-F1	REV 0
DATE 07/19/18	DRAWN BY DLK	CHECKED BY KD ✓	SCALE NONE
PAGE 1 OF 2		PAGE 1 OF 2	



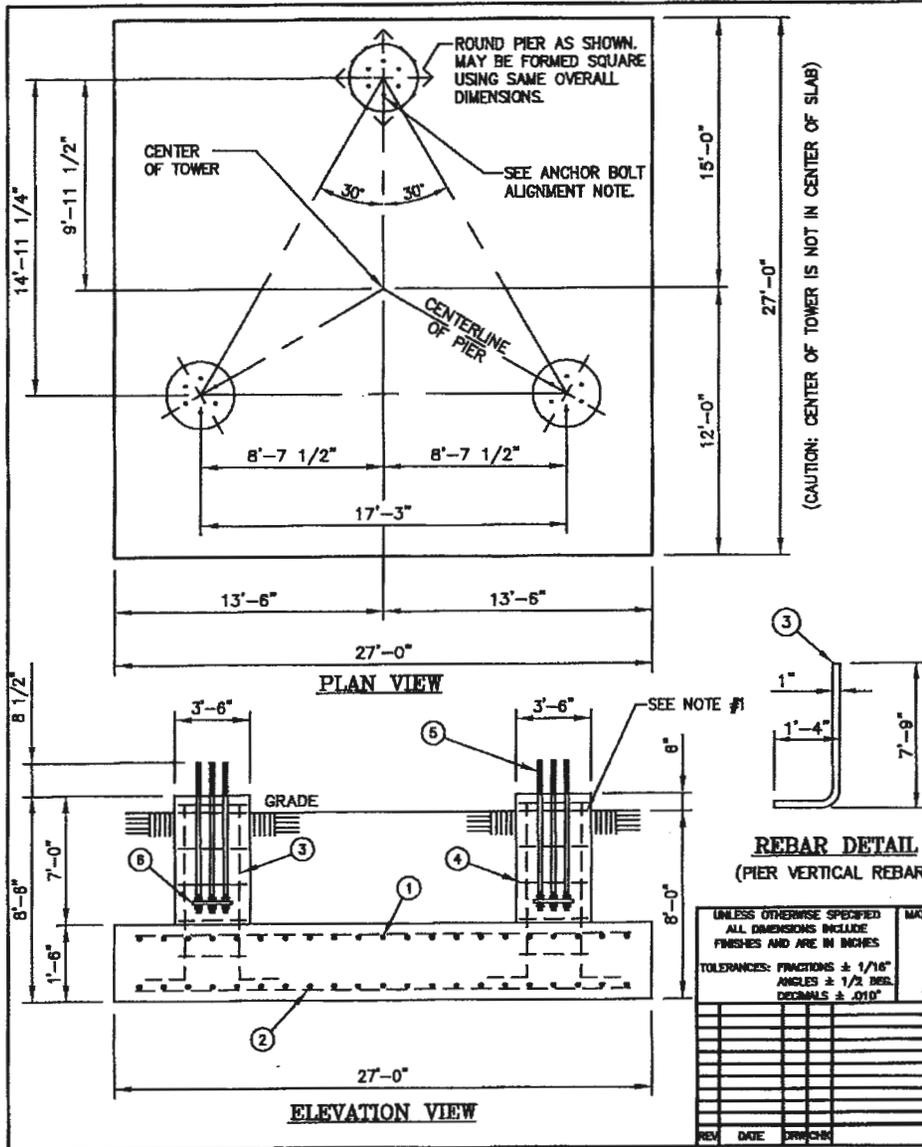
GENERAL NOTES

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11. (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. G18307, DATED: 3/29/18
6. SEE THE GEOTECHNICAL REPORT FOR DRILLED PIER INSTALLATION REQUIREMENTS, IF SPECIFIED.
7. THE BOTTOM ANCHOR BOLT TEMPLATE SHALL BE POSITIONED AS CLOSELY AS POSSIBLE TO THE BOTTOM OF THE ANCHOR BOLTS.
8. DISTANCE BETWEEN CENTER OF ANCHOR BOLT CAGE AND THE CENTER OF THE PIER NOT TO EXCEED 1/2" WITHOUT APPROVAL FROM ENGINEER OF RECORD.
9. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL).

BASE REACTIONS

TOTAL FOUNDATION		INDIVIDUAL FOOTING	
SHEAR (KIPS)	64.74	SHEAR (KIPS)	38.28
AXIAL (KIPS)	189.88	COMPRESSION (KIPS)	462
MOMENT (FT-KIPS)	6798	UPLIFT (KIPS)	423

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:			FOUNDATION: 180 FT. MODEL SSR--SD SITE: HALLSVILLE, MO CUSTOMER: BOONE COUNTY, MO				
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL		CONFIDENTIAL 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. © 2018 Sabre Communications Corporation. All rights reserved.		JOB NO. 414025	SIZE	DRAWING NO.	REV
DATE	07/19/18	B	414025-F1	0	DRAWN BY: DLK CHECKED BY: KD ✓		SCALE	PAGE	
REV	DATE	DRW/CHK	DESCRIPTION			NONE	2 OF 2		



REINFORCING STEEL SCHEDULE								
ITEM	LOCATION	NO. REQ'D.	BAR SPC'G.	SIZE	CUT LGTH.	TOTAL LGTH.	TOTAL WT.	SHAPE
①	PAD TOP REINFORCING	86	EQUALLY SPACED	#10	26'-6"	2279'-0"	9807 LBS.	STRAIGHT
②	PAD BOTTOM REINFORCING	86	EQUALLY SPACED	#10	26'-6"	2279'-0"	9807 LBS.	STRAIGHT
③	PIER VERTICAL REINFORCING	48	EQUALLY SPACED	#8	9'-1"	436'-0"	1164 LBS.	
④	PIER TIES	30	SPACED 11" C/C	#4	10'-8"	320'-0"	214 LBS.	
TOTAL REBAR WT.							20992 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	C30139210	6	10 1/4"

CONCRETE REQ'D	ROUND PIERS	SQUARE PIERS
PAD	40.50 CU. YDS.	40.50 CU. YDS.
PIERS	7.48 CU. YDS.	9.53 CU. YDS.
TOTAL	47.98 CU. YDS.	50.03 CU. YDS.

SEE PAGE 2 FOR GENERAL NOTES

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

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REV	DATE	DRWGR	DESCRIPTION

FOUNDATION: 180 FT. MODEL S3R-SD

SITE: HALLSVILLE, MO

CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-F2	REV 0
DATE 07/19/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
		PAGE 1 OF 2	



GENERAL NOTES

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11. (2 REBAR TIES REQ'D IN THE TOP 5")
2. REBAR 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 GIL PROJECT NO. G18307, DATED: 3/29/18
6. SEE THE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS, IF SPECIFIED.
7. 6.5 FT OF SOIL COVER IS REQUIRED OVER THE ENTIRE AREA OF THE FOUNDATION SLAB.
8. THE BOTTOM ANCHOR BOLT TEMPLATE SHALL BE POSITIONED AS CLOSELY AS POSSIBLE TO THE BOTTOM OF THE ANCHOR BOLTS.
9. DISTANCE BETWEEN CENTER OF ANCHOR BOLT CAGE AND THE CENTER OF THE PIER NOT TO EXCEED 1/2" WITHOUT APPROVAL FROM ENGINEER OF RECORD.
10. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL).

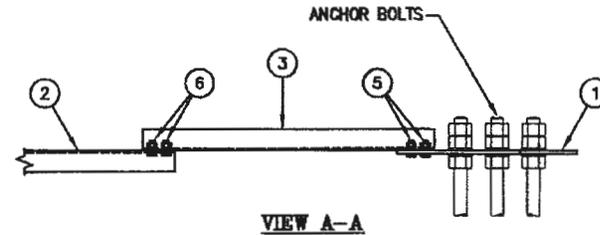
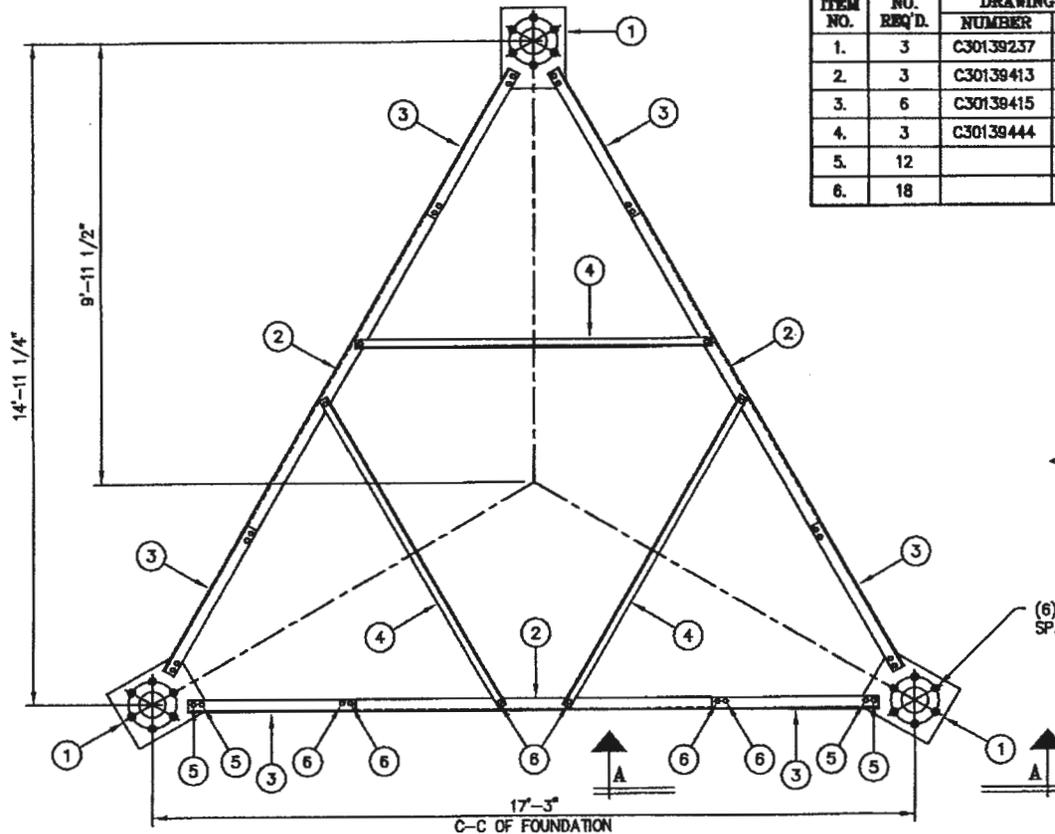
BASE REACTIONS

TOTAL FOUNDATION		INDIVIDUAL FOOTING	
SHEAR (KIPS)	64.74	SHEAR (KIPS)	38.28
AXIAL (KIPS)	189.88	COMPRESSION (KIPS)	462
MOMENT (FT-KIPS)	6798	UPLIFT (KIPS)	423

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:			FOUNDATION: 180 FT. MODEL S3R-SD			
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL			SITE: HALLSVILLE, MO			
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REV	DATE	DRWING			DESCRIPTION	JOB NO. 414025	SIZE B	DRAWING NO. 414025-F2
				DATE 07/19/18				
				DRAWN BY DLK		SCALE NONE	PAGE 2 OF 2	
				CHECKED BY KD				

C30400129 LEG TO LEG TEMPLATE

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	C30139415	0	C30139415	ANGLE, TEMPLATE SUPPORT, 3 X 3 X 3/16 X 3'-3 1/4"	73	N/R
4.	3	C30139444	0	C30139444	ANGLE, TEMPLATE SUPPORT, 2 1/2 X 2 1/2 X 3/16 X 8'-1 1/2"	75	N/R
5.	12			C40026023	BOLT ASSEMBLY, 5/8 # X 2 A325	8	
6.	18			C40026022	BOLT ASSEMBLY, 5/8 # X 1 3/4 A325	8	
TOTAL WEIGHT IN LBS.						370	



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

NOTE:

1. ALWAYS COMPARE THE DIMENSIONS SHOWN ON THIS DRAWING WITH THE PROPER CONCRETE FOUNDATION DRAWING, PRIOR TO PLACING CONCRETE.
2. ONE ANCHOR BOLT MUST BE ALIGNED DIRECTLY WITH THE CENTER OF THE TOWER (TYPICAL AT ALL (3) LEGS).
3. VERIFY ANCHOR BOLT CIRCLE CENTER-TO-CENTER SPACING ON ALL (3) LEGS AND ALIGNMENT OF ANCHOR BOLTS WITH THE CENTER OF THE TOWER AT ALL (3) LEGS PRIOR TO PLACING CONCRETE.
4. PROVIDE NECESSARY SUPPORT TO ELIMINATE ANY MOVEMENT DURING CONCRETE PLACEMENT AND CURING.

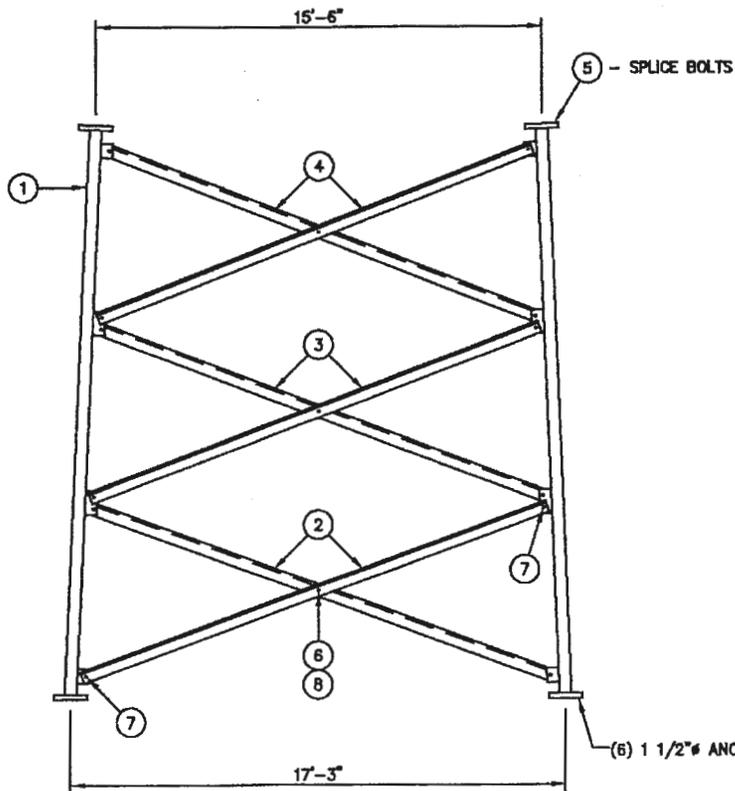
PLAN VIEW

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	10/15/17	REVISIONS	REVISED NOTES



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LEG TO LEG TEMPLATE INSTALLATION FOR MODEL S3R-SD SECTION 08			
BASE SPREAD 17'-3" C-C OF FOUNDATION			
(6) 1 1/2" # A.B. ON A 10 1/4" B.C.			
REF. 9031090	SIZE B	DRAWING NO. C30400129	REV 1
DATE 8/18/16	DRAWN BY DJB	SCALE None	PAGE 1 OF 1
CHECKED BY KTW			



ELEVATION VIEW

LIST OF MATERIAL

08-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	08-T1181241	SECT. 8 LEG 4 1/2" x 20'-0" 5/16" W/STEP BOLTS	3953
TOTAL WEIGHT LBS				3953

08-T8300081 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02614	ANGLE, DIAGONAL 3 X 3 X 1/4 X 17'-2 3/4"	527
3	6	TS02615	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-8 9/16"	511
4	6	TS02616	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-2 1/2"	496
TOTAL WEIGHT LBS				1534

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

TK00261 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026045	BOLT ASSEMBLY, 3/4" x 2 1/2" A325	8
7	38	C40026044	BOLT ASSEMBLY, 3/4" x 2 1/4" A325	28
8	10	C40047009	RINGFILL, 1/2" THICK - 3/4" BOLT	2
TOTAL WEIGHT LBS				38

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 5640

FIELD NOTES

1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS PROVIDED FOR (3) LEGS.

(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	BY	DESCRIPTION

Sabre Industries
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SECTION ERECTION: 08 08-T8300081

SITE: HALLSVILLE, MO

CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-S08	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
		PAGE 1 OF 1	



LIST OF MATERIAL

07-LEGS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	07-T1181039	SECT. 7 LEG 4 1/4" X 20'-0 5/16 W/STEP BOLTS	3511
TOTAL WEIGHT LBS				3511

07-T8300071 BRACING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02584	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-8 1/16	479
3	6	TS02585	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-2 1/16	464
4	6	TS02586	ANGLE, DIAGONAL 3 X 3 X 1/4 X 14'-8	449
TOTAL WEIGHT LBS				1392

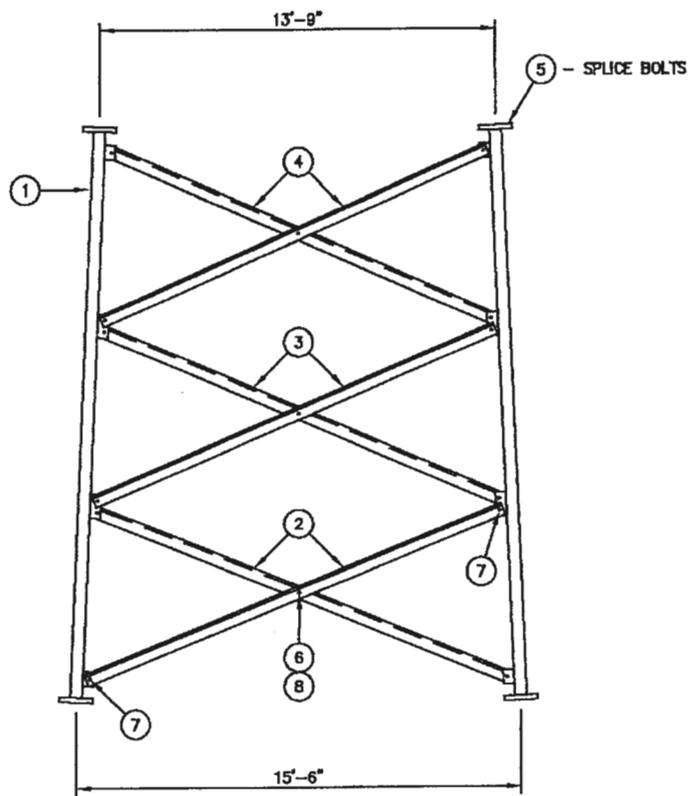
SPLICE BOLTS				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40026094	BOLT ASSEMBLY, 1 1/4" X 5 1/2 A325	69
TOTAL WEIGHT LBS				69

TK00261 HARDWARE KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026045	BOLT ASSEMBLY, 3/4" X 2 1/2 A325	8
7	38	C40026044	BOLT ASSEMBLY, 3/4" X 2 1/4 A325	28
8	10	C40047009	RINGFILL, 1/2 THICK - 3/4" BOLT	2
TOTAL WEIGHT LBS				38

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 5010

FIELD NOTES

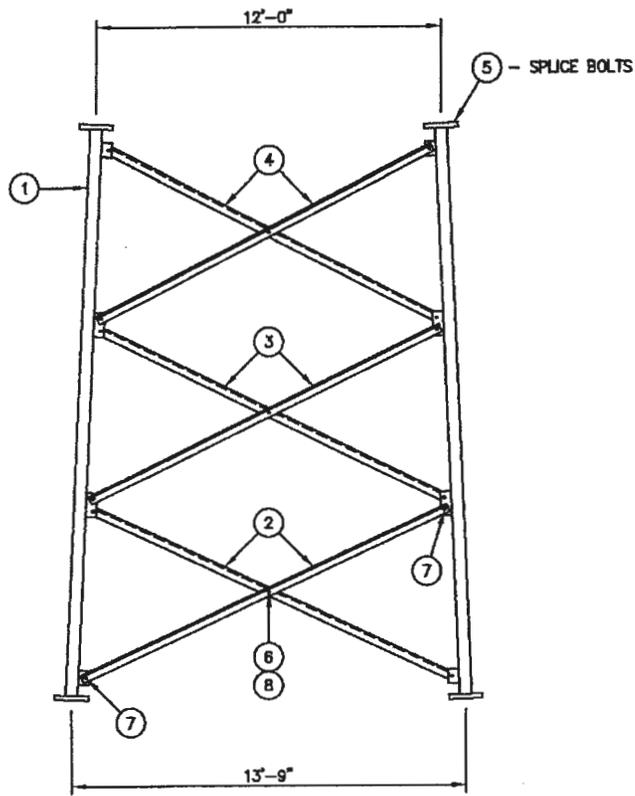
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS PROVIDED FOR (3) LEGS.



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>	<p>Sabre Industries Towers and Poles</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. © 2018 Sabre Communications Corporation. All rights reserved.</p>	
REV	DATE	DRAWING	DESCRIPTION

SECTION ERECTION: 07 07-T8300071			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE	DRAWING NO.	REV
DATE 08/25/18	B	414025-S07	0
DRAWN BY DLK	CHECKED BY KD	SCALE NONE	PAGE 1 OF 1



ELEVATION VIEW

LIST OF MATERIAL

06-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	06-T1181038	SECT. 6 LEG 4 1/4" x 20'-0 5/16"	3409
TOTAL WEIGHT LBS				3409

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 4457

FIELD NOTES

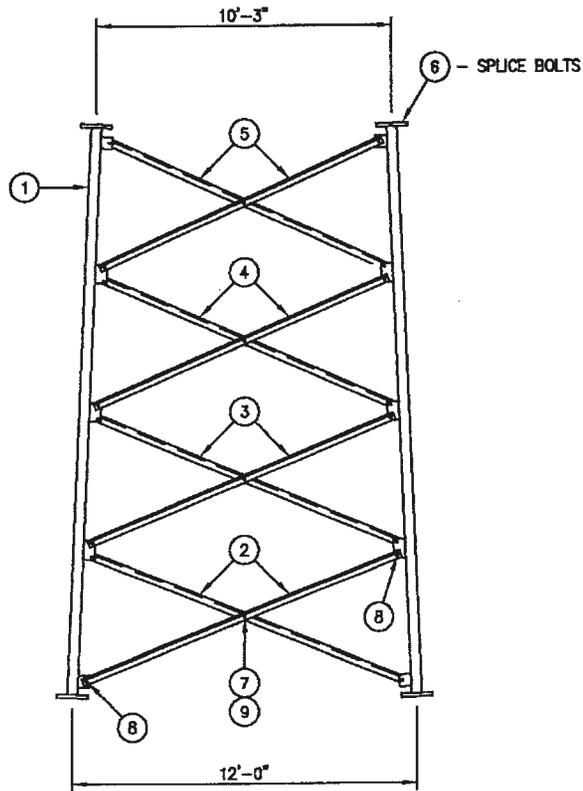
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

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: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-S06	REV 0
DATE 08/25/18	DRWN BY DLK	CHECKED BY KD ✓	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" x 20'-0 5/16"	2735
TOTAL WEIGHT LBS				2735

05-T8300059 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02545	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-10 15/16"	229
3	6	TS02546	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-6 1/4"	221
4	6	TS02547	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-1 5/8"	214
5	6	TS02548	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 10'-9"	208
TOTAL WEIGHT LBS				870

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026094	BOLT ASSEMBLY, 1 1/4" x 5 1/2" A325	89
TOTAL WEIGHT LBS				89

TK00194 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026023	BOLT ASSEMBLY, 5/8" x 2" A325	6
8	50	C40026022	BOLT ASSEMBLY, 5/8" x 1 3/4" A325	22
9	13	C40047003	RINGFILL, 3/8" THICK - 5/8" BOLT	2
TOTAL WEIGHT LBS				30

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3704

FIELD NOTES

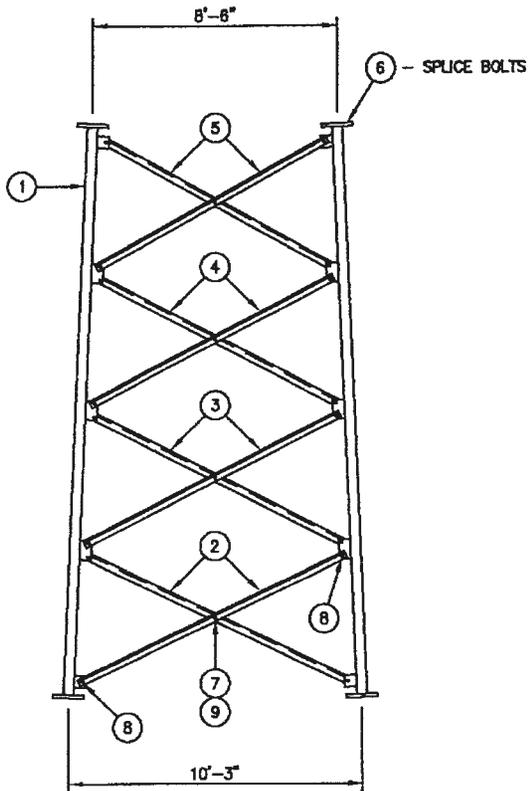
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .01"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION



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SECTION ERECTION: 05 05-T8300059			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-S05	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY KD ✓	SCALE NONE
			PAGE 1 OF 1



ELEVATION VIEW

LIST OF MATERIAL

04- LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	04-T1180940	SECT. 4 LEG 3 1/2" ø X 20'-0 5/16"	2355
TOTAL WEIGHT LBS				2355

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	C40026080	BOLT ASSEMBLY, 1" ø 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" ø X 2 1/4" A325	7
8	50	C40026023	BOLT ASSEMBLY, 5/8" ø X 2" A325	23
9	13	C40047003	RINGFILL, 3/8" THICK - 5/8" ø BOLT	2
TOTAL WEIGHT LBS				32

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 3207

FIELD NOTES

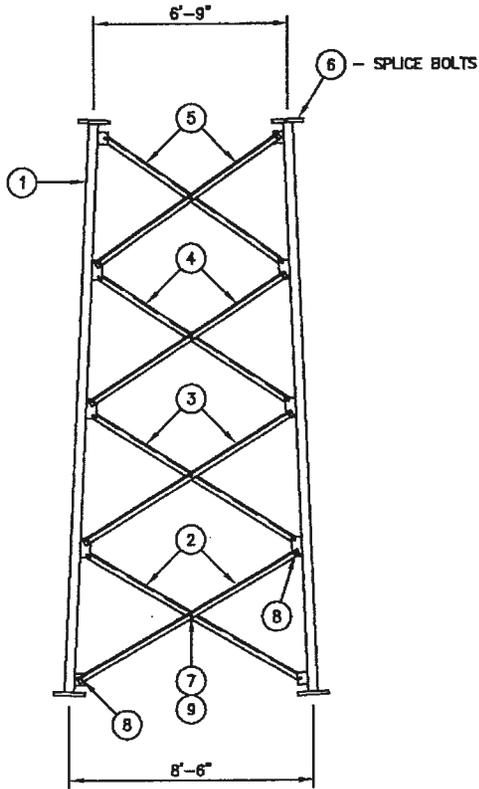
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

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



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SECTION ERECTION: 04 04-T8300052			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-S04	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
PAGE 1 OF 1			



ELEVATION VIEW

LIST OF MATERIAL

03-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	03-T180838	SECT. 3 LEG 3 1/4 # X 20'-0 5/16	2017
TOTAL WEIGHT LBS				2017

03-T8300046 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	8	TS02493	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-10 1/2	136
3	6	TS02494	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-6 1/8	130
4	6	TS02495	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-1 7/8	124
5	6	TS02496	ANGLE, DIAGONAL 2 X 2 X 3/16 X 7'-9 11/16	119
TOTAL WEIGHT LBS				509

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	19	C40026079	BOLT ASSEMBLY, 1 # X 4 1/2 A325	43
TOTAL WEIGHT LBS				43

TK00194 HARDWARE KIT

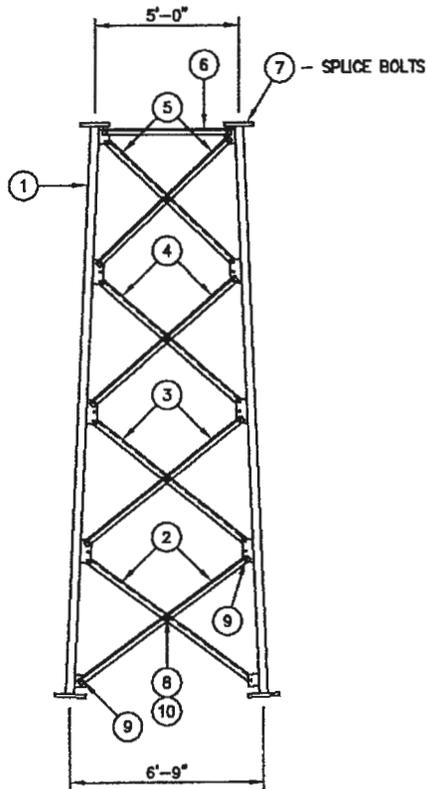
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	13	C40026023	BOLT ASSEMBLY, 5/8 # X 2 A325	6
8	50	C40026022	BOLT ASSEMBLY, 5/8 # X 1 3/4 A325	22
9	13	C40047003	RINGFILL, 3/8 THICK - 5/8 # BOLT	2
TOTAL WEIGHT LBS				30

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 2599

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 TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL.			SECTION ERECTION: 03 03-T8300046 SITE: HALLSVILLE, MO CUSTOMER: BOONE COUNTY, MO
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REV	DATE	DRW/CHK	DESCRIPTION		



ELEVATION VIEW

LIST OF MATERIAL

02-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	02-T1180732	SECT. 2 LEG 3" X 20'-0" 5/16"	1761
TOTAL WEIGHT LBS				1761

02-T8300037 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	6	TS02457	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-4 1/8"	76
3	6	TS02458	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-0 1/8"	73
4	6	TS02459	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-8 3/16"	68
5	6	TS02460	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-4 7/16"	65
6	3	TS02449	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 5/8"	23
TOTAL WEIGHT LBS				305

SPLICE BOLTS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
7	19	C40026077	BOLT ASSEMBLY, 1" X 4 A325	39
TOTAL WEIGHT LBS				39

TK00134 HARDWARE KIT

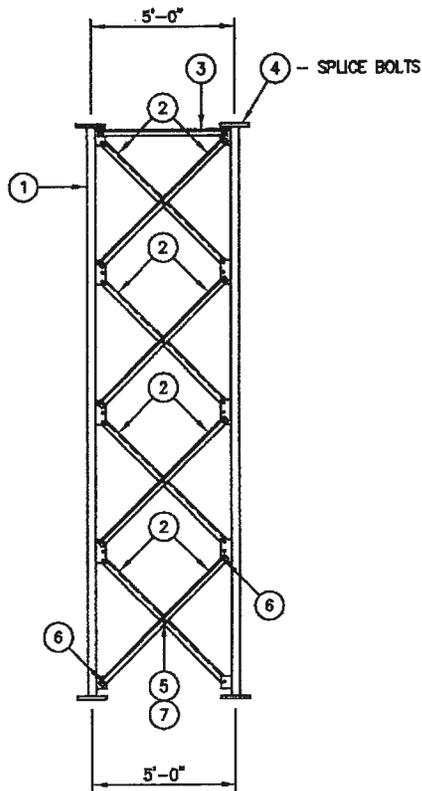
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	13	C40026023	BOLT ASSEMBLY, 5/8" X 2 A325	6
9	57	C40026022	BOLT ASSEMBLY, 5/8" X 1 3/4 A325	25
10	13	C40047003	RINGFILL, 3/8 THICK - 5/8" BOLT	2
TOTAL WEIGHT LBS				33

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 2138

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 TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL.			SECTION ERECTION: 02 02-T8300037 SITE: HALLSVILLE, MO CUSTOMER: BOONE COUNTY, MO	
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REV	DATE	DRW/CHK	DESCRIPTION			



ELEVATION VIEW

LIST OF MATERIAL

01-20-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180622	SECT. 1 LEG 2 1/2" ø X 20'-0 5/16"	1258
TOTAL WEIGHT LBS				1258

01-T8300031 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02443	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-2 3/4"	497
3	3	TS02411	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 3/4"	45
TOTAL WEIGHT LBS				542

SPLICE BOLTS

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

TK00146 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	13	C40028024	BOLT ASSEMBLY, 5/8" ø X 2 1/4" A325	7
6	57	C40028023	BOLT ASSEMBLY, 5/8" ø X 2" A325	26
7	13	C40047003	RINGFILL, 3/8" THICK - 5/8" ø BOLT	2
TOTAL WEIGHT LBS				35

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 1846

FIELD NOTES

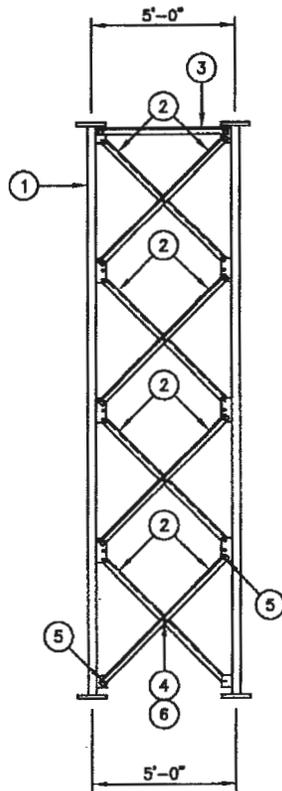
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

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

SECTION ERECTION: 01-20 01-T8300031
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-S01-1	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY KD	SCALE NONE
PAGE 1 OF 1			

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ELEVATION VIEW

LIST OF MATERIAL

01-20-LEGS

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	3	01-T1180608	SECT. 1 LEG 2 # X 20'-0 5/16	852
TOTAL WEIGHT LBS				852

01-T8300029 BRACING KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
2	24	TS02441	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/4	257
3	3	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4	23
TOTAL WEIGHT LBS				280

TK00134 HARDWARE KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
4	13	C40026023	BOLT ASSEMBLY, 5/8 # X 2 A325	6
5	57	C40026022	BOLT ASSEMBLY, 5/8 # X 1 3/4 A325	25
6	13	C40047003	RINGFILL, 3/8 THICK - 5/8 # BOLT	2
TOTAL WEIGHT LBS				33

TOTAL SECTION WEIGHT - INCLUDES 3 LEGS, BRACING AND HARDWARE KIT 1165

FIELD NOTES

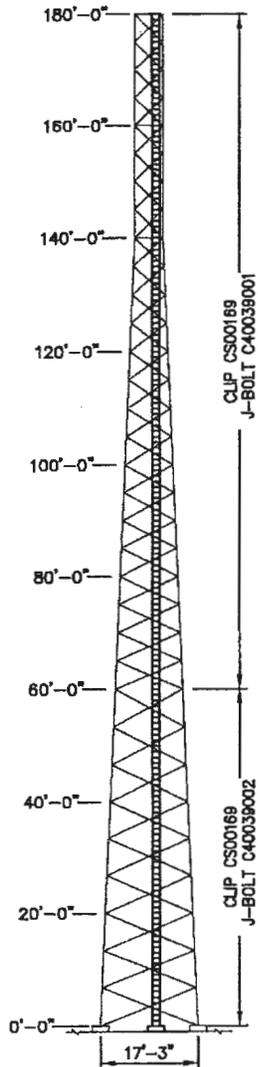
1. THE PART NUMBERS FOR ALL LEGS ARE LOCATED AT THE TOP OF EACH PART.
2. STEP BOLTS NOT PROVIDED FOR LEGS.

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

Sabre Industries
Towers and Poles

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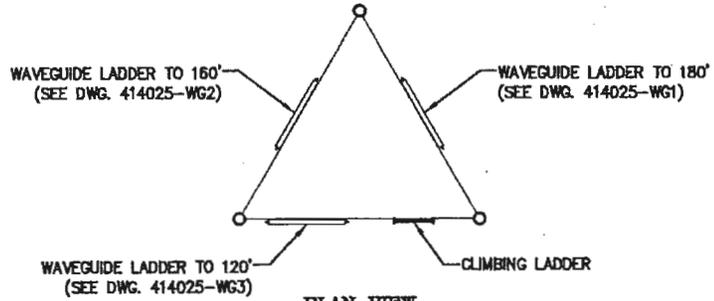
SECTION ERECTION: 01-20 01-T8300029			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-S01-2	REV 0
DATE 06/25/18	DRAWN BY DLK	CHECKED BY KD ✓	SCALE NONE
PAGE 1 OF 1			



ELEVATION VIEW

CLIMBING LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	9	CW00118	WELDMENT, 20 FT. CLIMBING LADDER 16" WIDE	855
2	16	CS00037	PLATE, LADDER SPLICE	6
3	2	CS00242	ANGLE, LADDER BASE SUPPORT	15
4	42	CSC00169	CLIP, LADDER ATTACHMENT	23
TOTAL WEIGHT LBS				899

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" x 7 1/4 I.L.	6
6	24	C40039001	J-BOLT ASSEMBLY, 3/8" x 5 3/4 I.L.	7
7	34	C40024004	BOLT ASSEMBLY, 3/8" x 1 1/2 GRD 5	3
8	96	C40044002	STEP BOLT ASSEMBLY, 5/8" x 7 H.D.G.	96
TOTAL WEIGHT LBS				112



PLAN VIEW

FIELD NOTES

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH LADDER TO EACH DIAGONAL.
FROM ELEVATION 80'-0" TO 180'-0" ATTACH LADDER TO EVERY OTHER DIAGONAL.
2. SEE REFERENCE DWG. 9029450 FOR CLIMBING LADDER INSTALLATION FROM ELEVATION 0'-0" TO 180'-0".
3. SEE REFERENCE DWG. 9031527 FOR CLIMBING LADDER BASE INSTALLATION.
4. SEE REFERENCE DWG. 900219 FOR CONSTRUCTION STEP BOLT INSTALLATION FROM ELEVATION 0'-0" TO 40'-0".
5. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING OF ALL LADDERS.

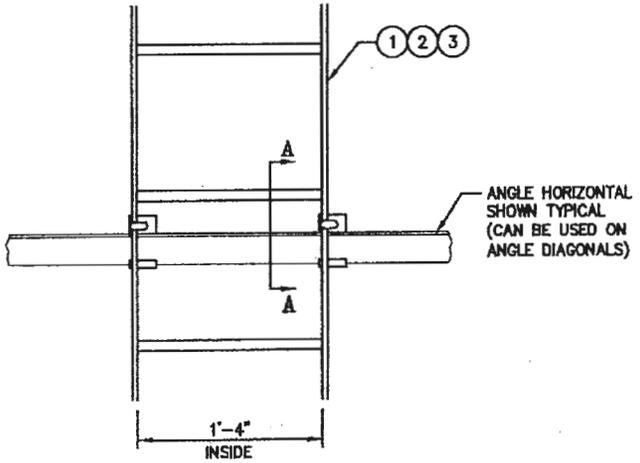
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	BY	DESCRIPTION

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Towers and Poles

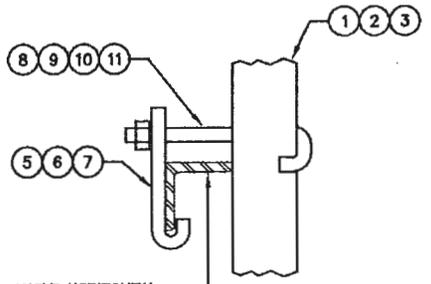
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CLIMBING LADDER: 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE: B	DRAWING NO. 414025-CL1	REV 0
DATE: 09/28/18	DRAWN BY: DLK	CHECKED BY: ZAK	SCALE: NONE
		PAGE 1 OF 1	

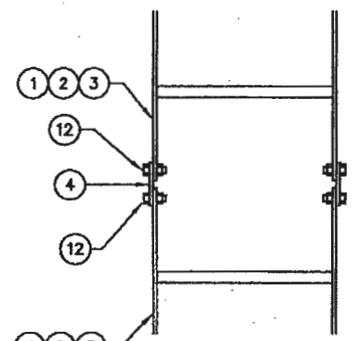


ELEVATION
(TYPICAL MOUNTING DETAIL)



ANGLE HORIZONTAL OR DIAGONAL (TYP.)
SECTION A-A

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



SPLICE DETAIL

LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CW00118	WELDMENT, 20 FT CLIMBING LADDER	
2.	A/R	CW00206	WELDMENT, 10 FT CLIMBING LADDER	
3.	A/R	CW00207	WELDMENT, 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)	
7.	A/R	CS00808	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES; 1/2" TO 3/4" THK.)	
8.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
9.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
10.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
11.	A/R	C40039009	J-BOLT ASSY., 3/8 (3" - 6" ANGLES; 1/2" TO 3/4" THK.)	
12.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
				TOTAL WEIGHT

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

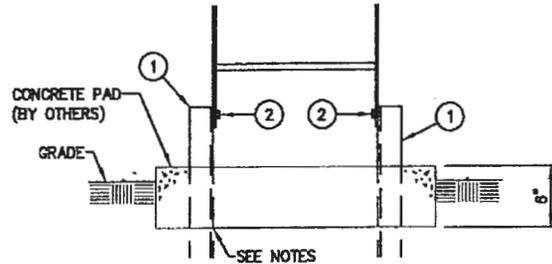
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	BY	DESCRIPTION
1	1/21/10	DES	DESIGN INITIAL LADDER CLIP & CONNECTION J-BOLT TO MATCH WITH 16" WIDE LADDER
2	8/24/05	KMM	REVISED FROM 16" WIDE LADDER
3	8/21/05	KMM	REVISED FROM 16" WIDE LADDER

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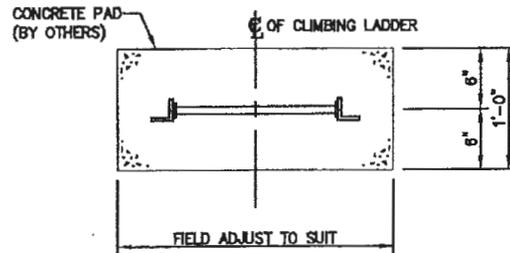
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TYPICAL CLIMBING LADDER INSTALLATION (STANDARD 16" WIDE LADDER)			
DATE	8/22/05	SIZE	B
DRAWN BY	KMM	DRAWING NO.	9029450
CHECKED BY	CHH	SCALE	None
		PAGE	1 OF 1
		REV	3

LIST OF MATERIAL				
ITEM	QTY	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	CS00242	ANGLE, LADDER BASE SUPPORT	
2.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
TOTAL WEIGHT				



ELEVATION VIEW
(LADDER BASE ELEVATION)



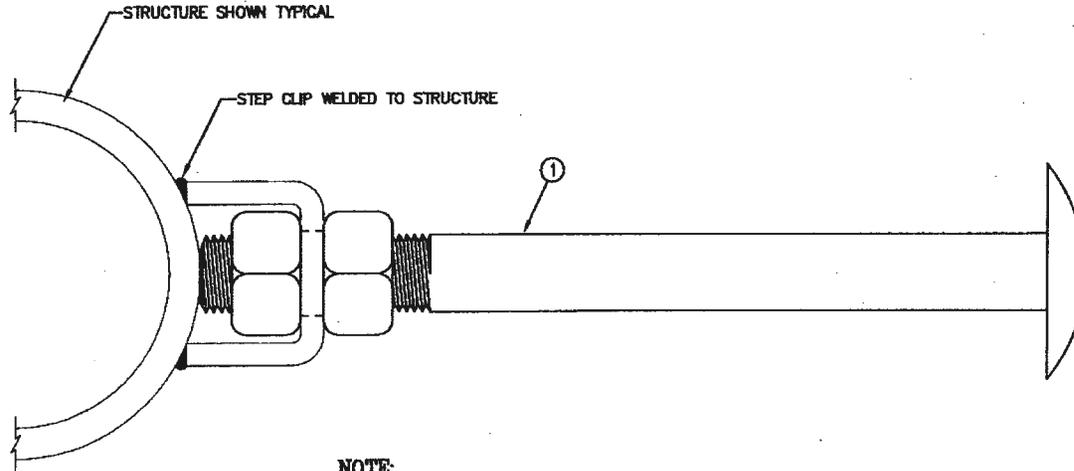
PLAN VIEW
(LADDER BASE PLAN)

NOTE:

1. SUPPORT ANGLES MAY BE CUT IN FIELD TO PREVENT PROTRUDING THROUGH THE BOTTOM OF THE CONCRETE BLOCK.
2. THE BEARING MATERIAL BENEATH THE CONCRETE SHALL CONSIST OF NON-EXPANSIVE AND NON-FROST SUSCEPTIBLE (NFS) MATERIAL.

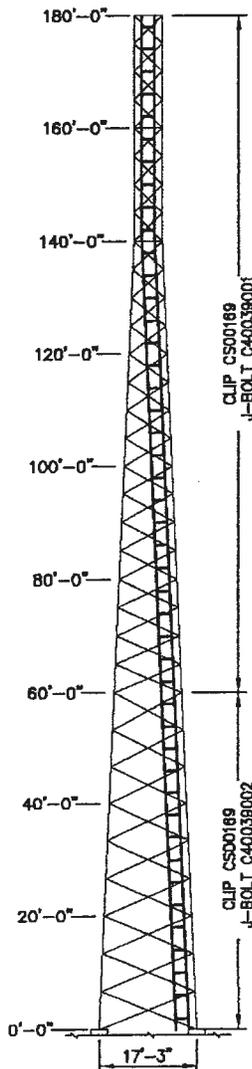
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL.				LADDER BASE INSTALLATION FOR SELF-SUPPORTING TOWERS					
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"										CONFIDENTIAL This document and the information 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. © 2016 Sabre Communications Corporation. All rights reserved.	
REV	DATE	DRW/CHK	DESCRIPTION	DATE	03/02/16	SIZE	B	DRAWING NO.	9031527	REV	0
				DRAWN BY	LRS			SCALE	None	PAGE	1 OF 1
				CHECKED BY	KLE						

LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	A/R	C40044002	STEP BOLT ASSEMBLY, 5/8 X 7	

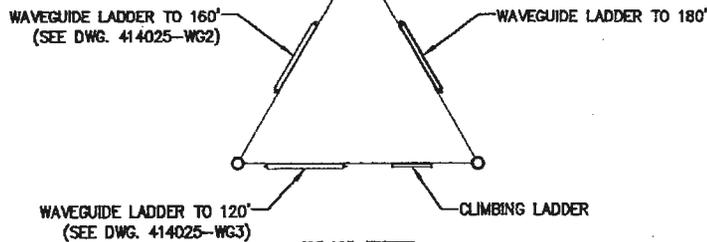


NOTE:
 STEP BOLTS PROVIDED FOR CONSTRUCTION PURPOSES ARE FOR EXPERIENCED TOWER ERECTORS ONLY AND SHOULD NEVER BE USED WITHOUT PROPER SAFETY EQUIPMENT. FOR STEP BOLTS SUPPLIED AS A FORM OF CLIMBING IN TYPICAL COMMUNICATION ACTIVITY, SABRE INDUSTRIES RECOMMENDS A FALL PROTECTION PLAN BE COMPLETED BY A COMPETENT PERSON AND FOLLOWED FOR EACH CLIMB.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:				STEP BOLT ATTACHMENT INSTALLATION					
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL									
1/ 8/27/18 2/ 3/10/03 3/ 1/27/03 4/ 10/27/01 5/ 11/27/03 6/ 12/15/03		1/ 1/27/18 2/ 3/10/03 3/ 1/27/03 4/ 10/27/01 5/ 11/27/03 6/ 12/15/03		CONFIDENTIAL 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.		SIZE	DRAWING NO.	REV	DATE	DRAWN BY	CHECKED BY
				B	900219	7	4/21/82	DPB	WHO	None	PAGE 1 OF 1



ELEVATION VIEW



PLAN VIEW

FIELD NOTES

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL FROM ELEVATION 60'-0" TO 180'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL
2. SEE REFERENCE DWG. 9028851 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.

WAVEGUIDE LADDER

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	18	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	540
2	45	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	207
3	16	CS00037	PLATE, LADDER SPLICE	6
4	42	CS00169	CLIP, LADDER ATTACHMENT	23
TOTAL WEIGHT LBS				776

LADDER HARDWARE

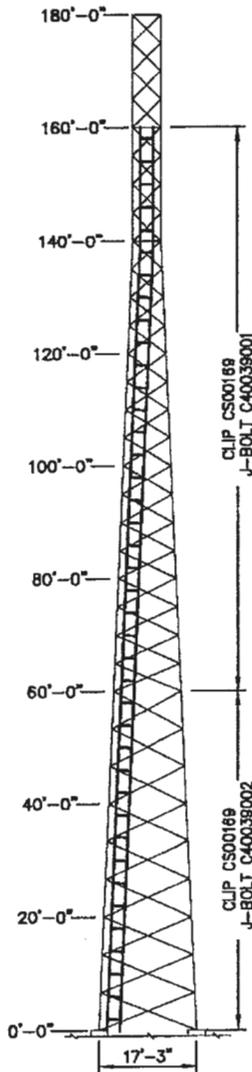
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" # X 7 1/4 LL	6
6	24	C40039001	J-BOLT ASSEMBLY, 3/8" # X 5 3/4 LL	7
7	122	C40024004	BOLT ASSEMBLY, 3/8" # X 1 1/2 GRD 5	12
TOTAL WEIGHT LBS				25

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

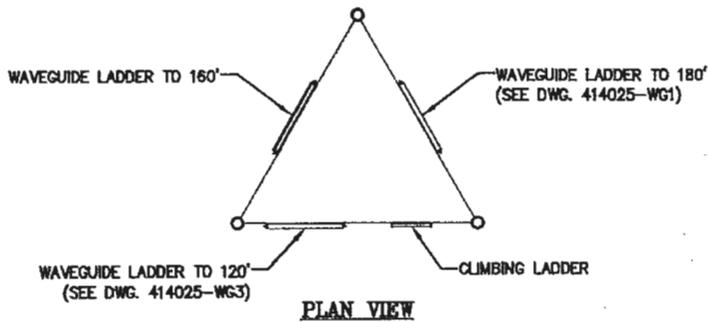


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W/G LADDER 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-WG1	REV 0
DATE 09/25/18			
DRAWN BY DLK		SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK			



ELEVATION VIEW



PLAN VIEW

FIELD NOTES

1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL. FROM ELEVATION 60'-0" TO 180'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 9028851 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.

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	40	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	184
3	14	CS00037	PLATE, LADDER SPLICE	6
4	38	CS00169	CLIP, LADDER ATTACHMENT	21
TOTAL WEIGHT LBS				691

LADDER HARDWARE

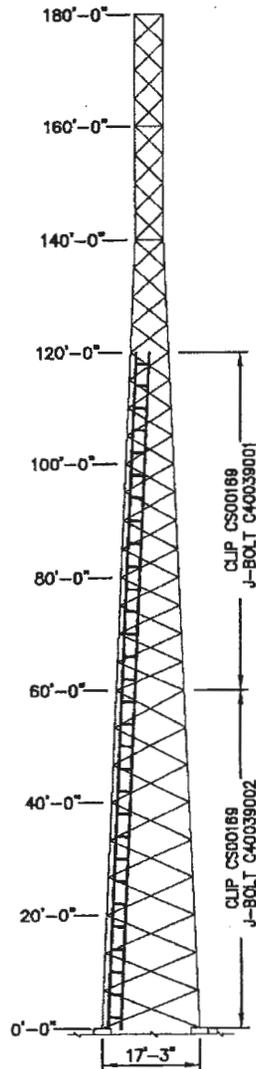
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" # X 7 1/4 I.L.	6
6	20	C40039001	J-BOLT ASSEMBLY, 3/8" # X 5 3/4 I.L.	6
7	108	C40024004	BOLT ASSEMBLY, 3/8" # X 1 1/2 GRD 5	11
TOTAL WEIGHT LBS				23

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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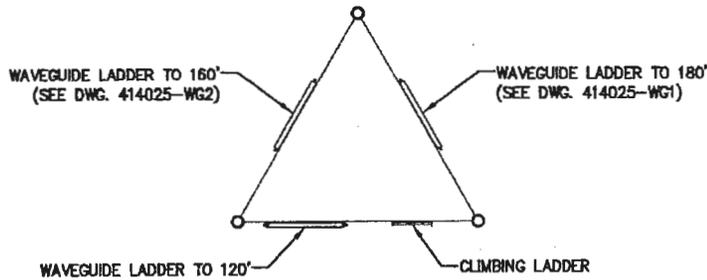
W/G LADDER: 180 FT. MODEL SSR-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-WG2	REV 0
DATE 08/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE PAGE 1 OF 1



ELEVATION VIEW

WAVEGUIDE LADDER				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	12	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	360
2	30	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	138
3	10	CS00037	PLATE, LADDER SPLICE	4
4	30	CS00189	CLIP, LADDER ATTACHMENT	17
TOTAL WEIGHT LBS				519

LADDER HARDWARE				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
5	18	C40039002	J-BOLT ASSEMBLY, 3/8" x 7 1/4 I.L.	6
6	12	C40039001	J-BOLT ASSEMBLY, 3/8" x 5 3/4 I.L.	4
7	80	C40024004	BOLT ASSEMBLY, 3/8" x 1 1/2 GRD 5	8
TOTAL WEIGHT LBS				18



PLAN VIEW

FIELD NOTES

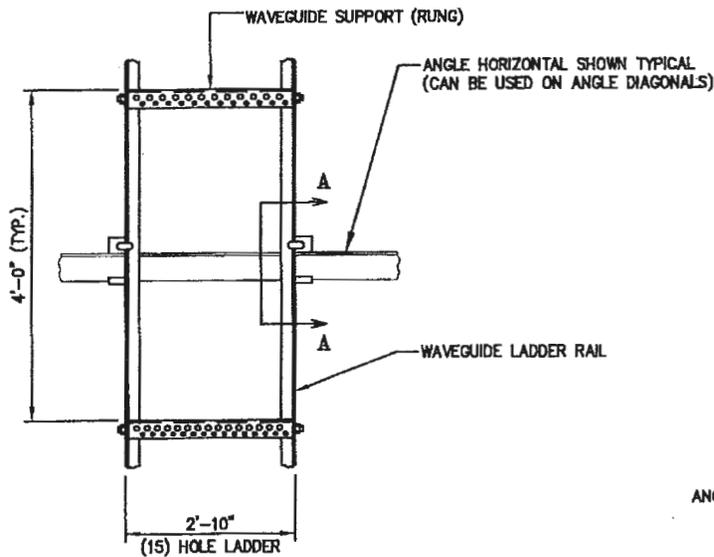
1. FROM ELEVATION 0'-0" TO 60'-0" ATTACH WAVEGUIDE LADDER TO EACH TOWER DIAGONAL.
FROM ELEVATION 60'-0" TO 120'-0" ATTACH WAVEGUIDE LADDER TO EVERY OTHER TOWER DIAGONAL.
2. SEE REFERENCE DWG. 9028851 FOR WAVEGUIDE LADDER INSTALLATION AND ATTACHMENT DETAIL.
3. SEE CUSTOMER REQUESTS FOR PROPER FACE POSITIONING 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		MATERIAL:	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION

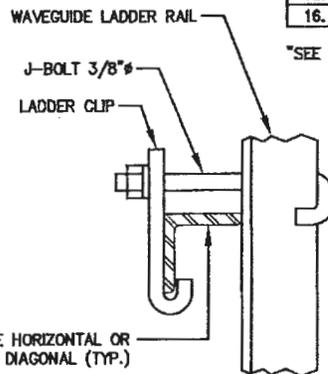
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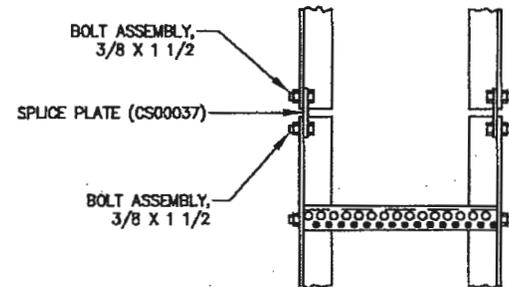
W/G LADDER: 180 FT. MODEL S3R-SD			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE	DRAWING NO.	REV
DATE 08/25/18	B	414025-WG3	0
DRAWN BY DLK	CHECKED BY ZAK V	SCALE NONE	PAGE 1 OF 1



ELEVATION
(TYPICAL MOUNTING DETAIL)



SECTION A-A



SPLICE DETAIL

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	CS00413	ANGLE WAVEGUIDE SUPPORT (15 HOLE)	
6.	A/R	CS00169	CLIP, LADDER ATTACHMENT (1 1/2" - 4" ANGLES)	
7.	A/R	CS00170	CLIP, LADDER ATTACHMENT (5" - 6" ANGLES)	
8.	A/R	CS00171	CLIP, LADDER ATTACHMENT (1 1/2" - 6" ANGLES; 1/2" THK & UNDER)	
9.	A/R	CS00808	CLIP, LADDER ATTACHMENT (4" - 6" ANGLES; 1/2" TO 3/4" THK)	
10.	A/R	CS01212	CLIP, LADDER ATTACHMENT (8" ANGLES)	
11.	A/R	C40039001	J-BOLT ASSY., 3/8 (1 1/2" - 2 1/2" ANGLES)	
12.	A/R	C40039002	J-BOLT ASSY., 3/8 (3" - 4" ANGLES)	
13.	A/R	C40039003	J-BOLT ASSY., 3/8 (5" - 6" ANGLES)	
14.	A/R	C40024004	BOLT ASSEMBLY, 3/8 X 1 1/2 GR5	
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)	
TOTAL WEIGHT				

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

NOTE:
MAXIMUM SPACING OF LADDER CLIPS UP THE TOWER TO BE ±10'-0".

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	4/5/18	DRW/CHK	ORIGINALLY DESIGNED FOR THE 15 HOLE LADDER
2	11/28/18	DRW/CHK	REVISIONS TO THE 15 HOLE LADDER
3	11/28/18	DRW/CHK	REVISIONS TO THE 15 HOLE LADDER

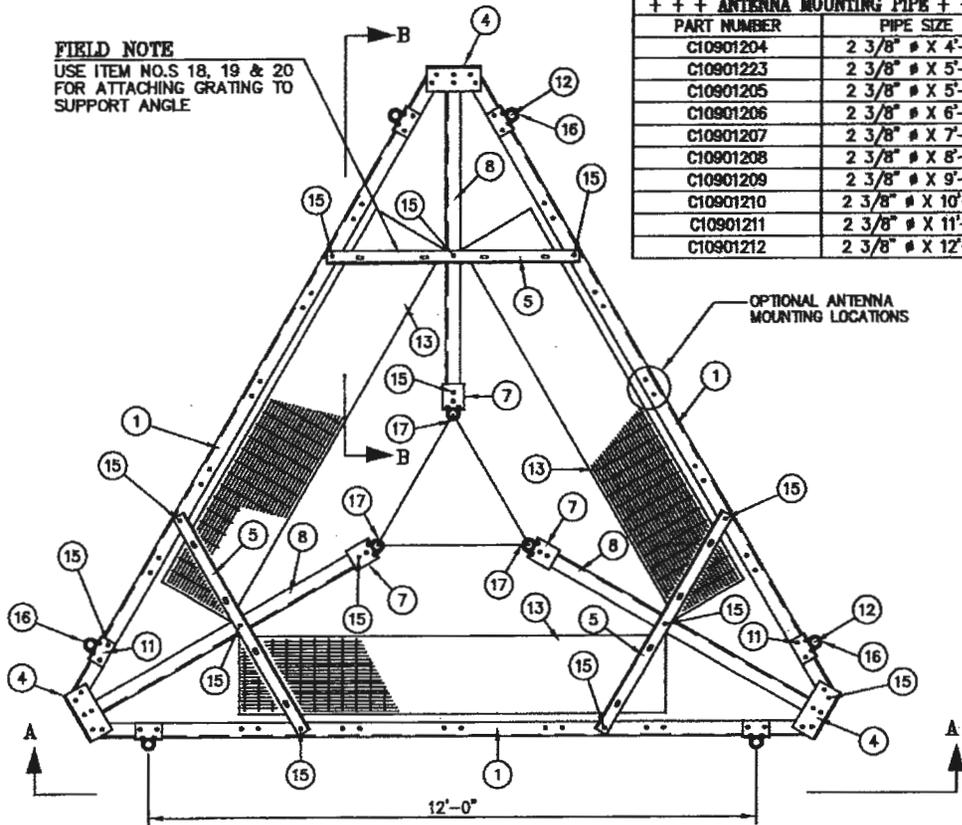
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TYPICAL WAVEGUIDE LADDER INSTALLATION 15 HOLE RUNG - 7/16"φ & 3/4"φ			
DATE	5/22/03	SIZE	B
DRAWN BY	CHH	DRAWING NO.	9028851
CHECKED BY	ZAK	SCALE	None
		PAGE	1 OF 1
		REV	3

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. THE MOUNTING ARRANGEMENT OF THE MOUNTS SHOWN ON THE PLAN VIEW ARE TYPICAL ONLY, AND MAY HAVE TO BE ALTERED AT THE TIME OF INSTALLATION TO FIT THE ACTUAL REQUIREMENTS.
2. TOTAL APPROXIMATE WEIGHT: 1996 LBS. (GALV.)

+++ ANTENNA MOUNTING PIPE +++

PART NUMBER	PIPE SIZE
C10901204	2 3/8" # X 4'-0"
C10901223	2 3/8" # X 5'-0"
C10901205	2 3/8" # X 5'-3"
C10901206	2 3/8" # X 6'-0"
C10901207	2 3/8" # X 7'-0"
C10901208	2 3/8" # X 8'-6"
C10901209	2 3/8" # X 9'-0"
C10901210	2 3/8" # X 10'-6"
C10901211	2 3/8" # X 11'-0"
C10901212	2 3/8" # X 12'-0"

CK00015 ROTATABLE 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

TOWER LEG CONNECTION MATERIAL

ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
7.	6	CS00308	ANGLE, LEG MOUNT 2"#	CS00308

CK00048 MISCELLANEOUS FRAMING MATERIAL

ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
8.	3	CS00312	ANGLE, TOP CHORD (BOOM)	CS00312
9.	3	CS00315	ANGLE, BOTTOM CHORD (BOOM)	CS00315
10.	6	CS00318	ANGLE, DIAGONAL (BOOM)	CS00318

ANTENNA MOUNTING PIPE

ITEM	QTY.	DWG. NO.	DESCRIPTION	PART NO.
11.	12	CS00285	ANGLE, PIPE MOUNT	CS00285
12.	6	C109012	ANTENNA MTG. PIPE, 2 3/8" # X (LENGTH VARIES)	+++

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	C40034-3	U-BOLT ASSEMBLY 5/8" X 3 1/16" C/C	C40034023
17.	12	C40034-3	U-BOLT ASSEMBLY 5/8" X 2 11/16" C/C	C40034022
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

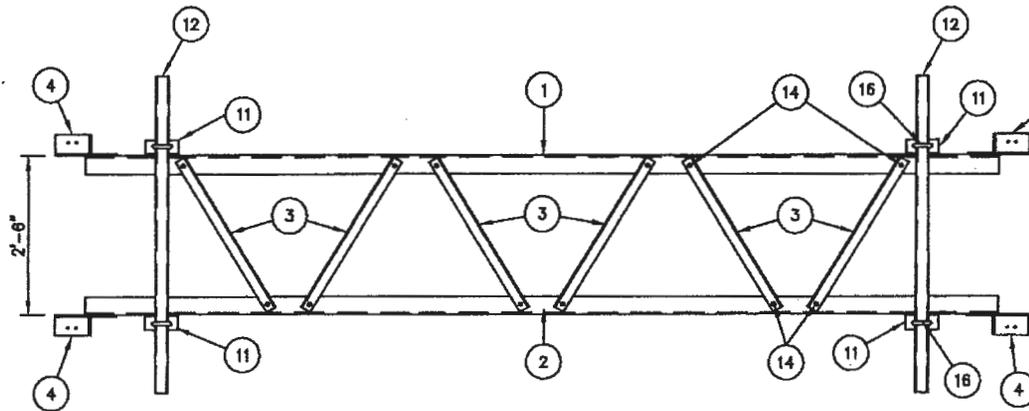
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL: FITS 2" O.D. LEG 5'-0" C/C LEG	
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"		TOLERANCES DO NOT APPLY TO RAW MATERIAL.	
REV	DATE	DRW/CHK	DESCRIPTION



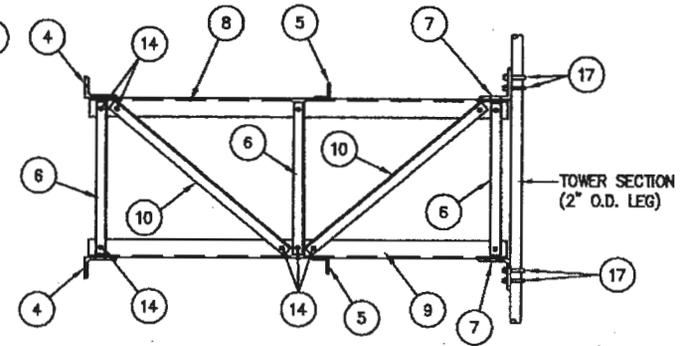
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INSTALLATION DETAIL FOR ANTENNA MOUNTING FRAME WITH GRATING (2 PIPE)

DATE		3/30/17	SIZE	B	DRAWING NO.	9031598	REV	0
DRAWN BY		DJB	SCALE		None		PAGE	
CHECKED BY		ZAK					1 OF 2	



SECTION A-A



SECTION B-B

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL: FITS 2" O.D. LEG 5'-0" C/C LEG	
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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INSTALLATION DETAIL FOR ANTENNA MOUNTING FRAME WITH GRATING (2 PIPE)

DATE	3/30/17	SIZE	B	DRAWING NO.	9031598	REV	0
DRAWN BY	DJB	SCALE	None	PAGE	2 OF 2		
CHECKED BY	ZAK						

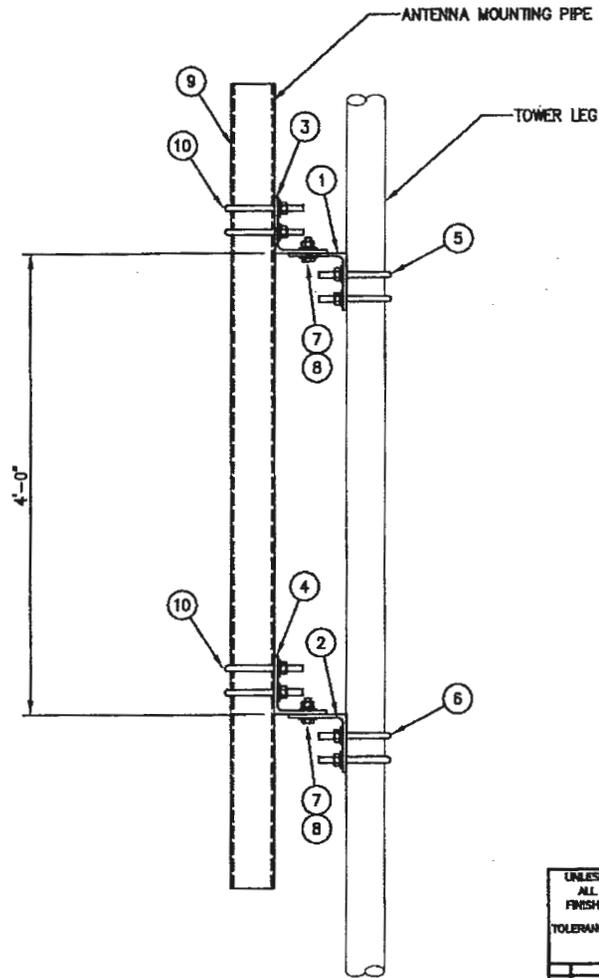


LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173008

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2" LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2" 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	C40034022	U-BOLT ASSEMBLY 5/8" X 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034022	U-BOLT ASSEMBLY 5/8" X 2 11/16 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



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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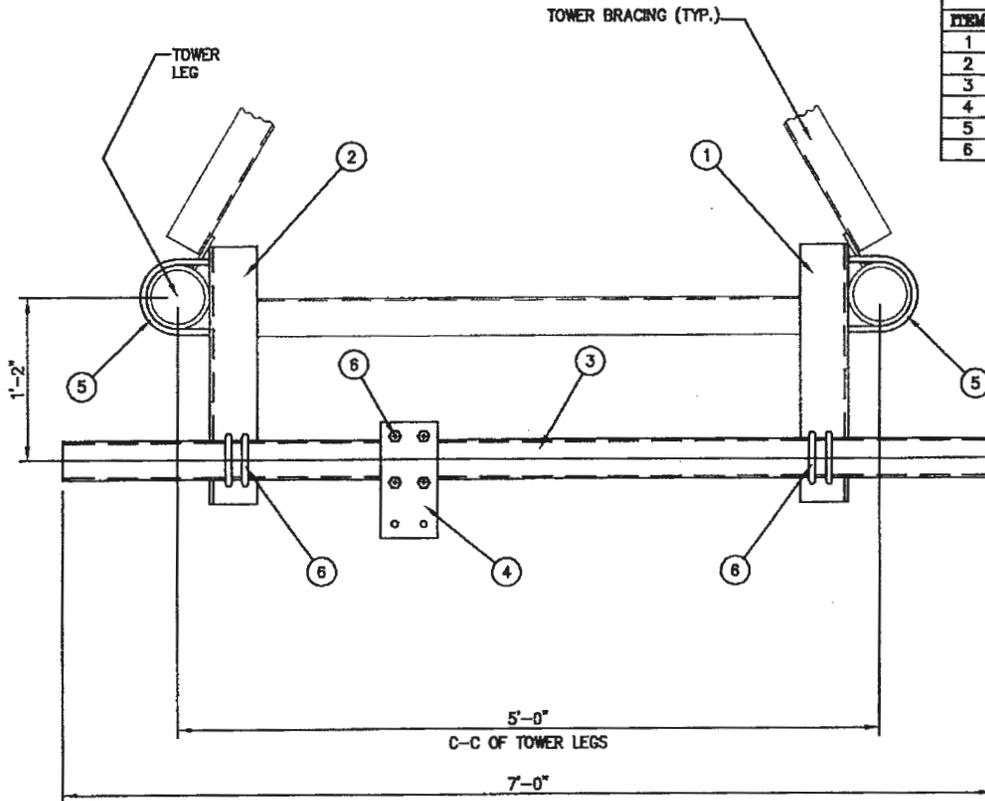
PIPE MOUNTS: 170' ELEVATION
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-PM1	REV 0
DATE 09/25/18	DRWN BY DLK	CHECKED BY ZAK	SCALE NONE
		PAGE 1 OF 1	



C10105020 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" ϕ THRU 5" ϕ LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" ϕ THRU 5" ϕ 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	C40034022	U-BOLT ASSEMBLY 5/8" ϕ X 2 11/16 C-C	6
6	6	C40035003	U-BOLT ASSEMBLY 5/8" ϕ X 4 1/4 C-C	11
TOTAL WEIGHT LBS				132



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 $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$			TOLERANCES DO NOT APPLY TO RAW MATERIAL
REV	DATE	DRW/CHK	DESCRIPTION



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STIFFARM MOUNTS: 170' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-DT1	REV 0
DATE 09/25/18	DRWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAKI			

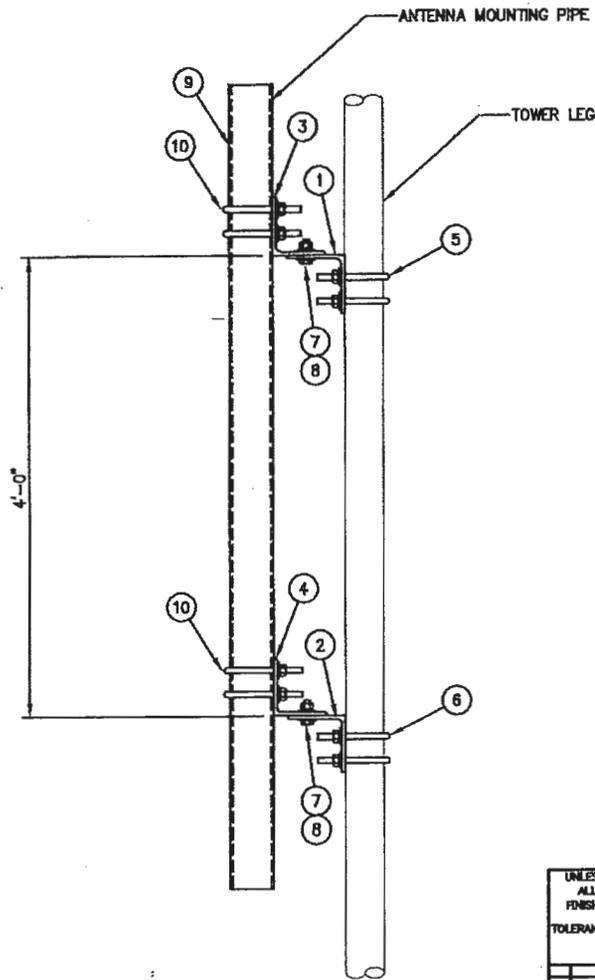


LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173011

ITEM	QTY	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2" LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2 1/2" 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	C40034022	U-BOLT ASSEMBLY 5/8" X 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034024	U-BOLT ASSEMBLY 5/8" X 3 3/16 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



ELEVATION VIEW

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



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PIPE MOUNTS: 180' ELEVATION
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

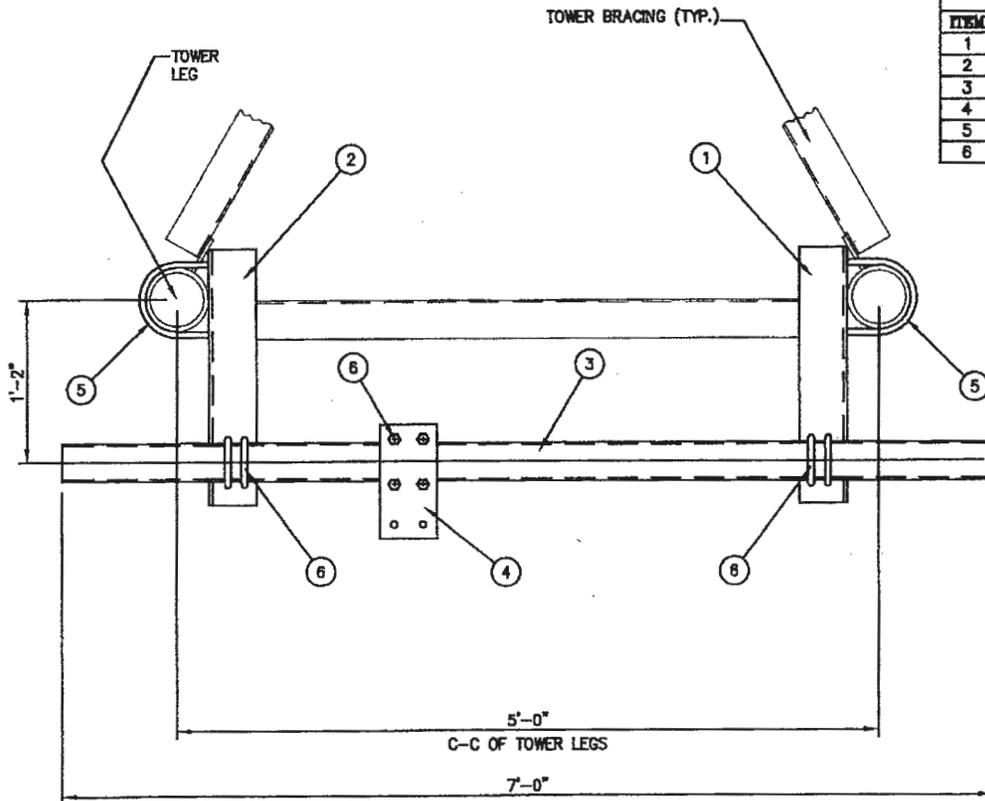
REV	DATE	DRW/CHK	DESCRIPTION

JOB NO. 414025	SIZE B	DRAWING NO. 414025-PM2	REV 0
DATE 09/25/18	DRAWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK ✓			



C10105020 STIFFARM MOUNT FOR PIPE MOUNT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" \varnothing THRU 5" \varnothing LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" \varnothing THRU 5" \varnothing 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	C40034022	U-BOLT ASSEMBLY 5/8" \varnothing X 2 11/16 C-C	6
6	6	C40035003	U-BOLT ASSEMBLY 5/8" \varnothing X 4 1/4 C-C	11
TOTAL WEIGHT LBS				132



PLAN VIEW

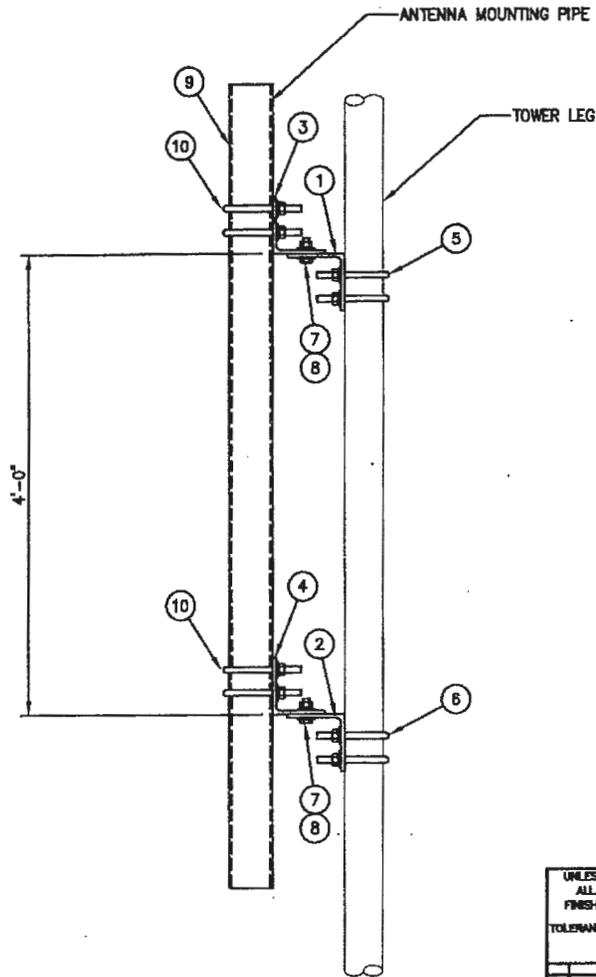
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES		MATERIAL:
TOLERANCES: FRACTIONS \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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STIFFARM MOUNTS: 160' ELEVATION (ABOVE SPLICE)			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-DT2	REV 0
DATE 09/25/18	DRAWN BY DLK	SCALE NONE	PAGE 1 OF 1
CHECKED BY ZAK			



ELEVATION VIEW

LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173013				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00218	TOP LEG MOUNT FOR 2 1/2" LEG	15
2.	1	CS00218	BOTTOM LEG MOUNT FOR 2 1/2" 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	C40034024	U-BOLT ASSEMBLY 5/8" X 3 3/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034024	U-BOLT ASSEMBLY 5/8" X 3 3/16 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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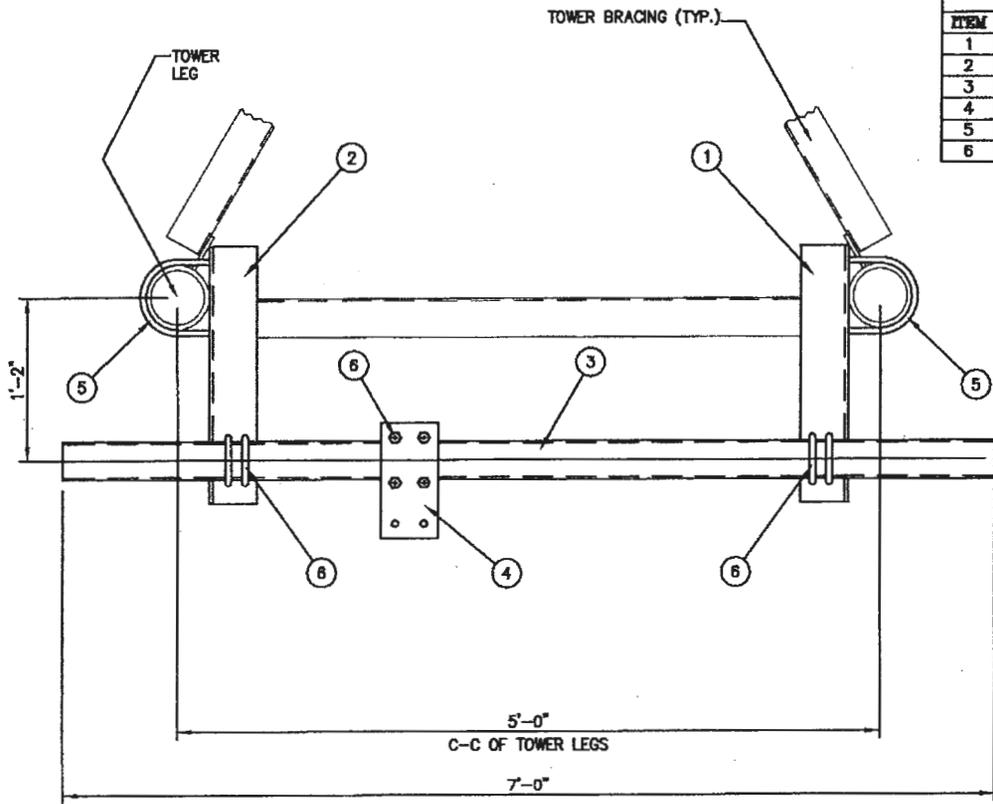
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PIPE MOUNTS: 150' ELEVATION
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025		SIZE	DRAWING NO.		REV
DATE	09/25/18	B	414025-PM3		0
DRAWN BY	DLK	SCALE		PAGE	
CHECKED BY	ZAK ✓	NONE		1 OF 1	



C10105022 STIFFARM MOUNT FOR PIPE MOUNT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	1	CS00680	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø LEG	24
2	1	CS00681	ANGLE, STIFFARM MOUNT, 1 1/4" Ø THRU 5" Ø 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	C40034024	U-BOLT ASSEMBLY 5/8" Ø X 3 3/16 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

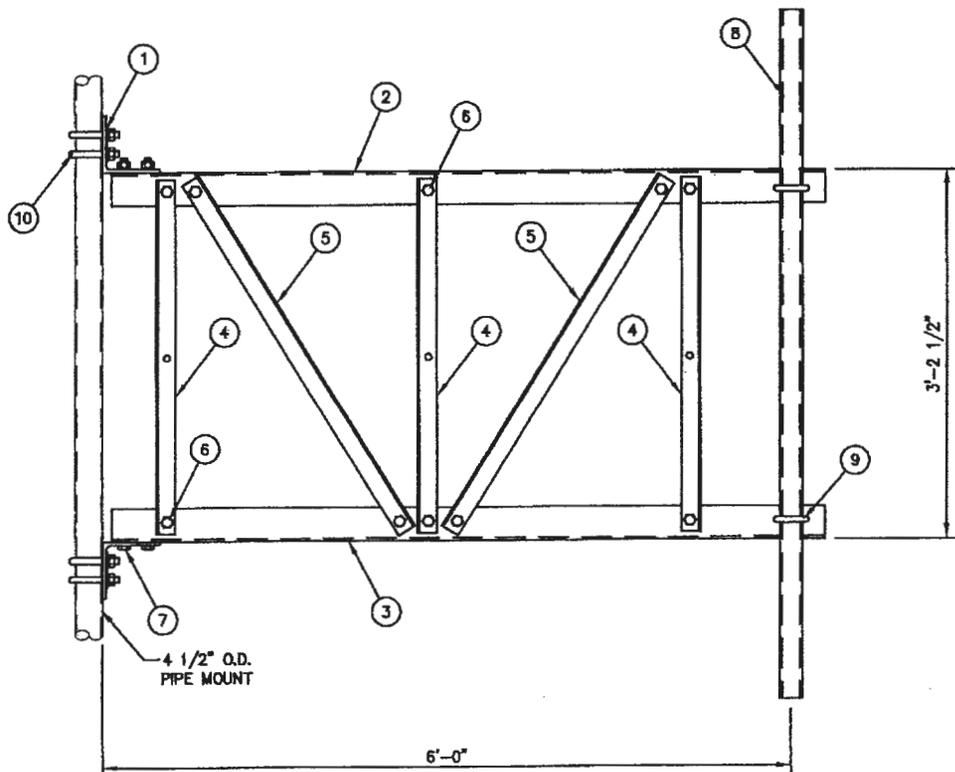
NOTE: DISH MOUNT TIEBACK MAY BE MOUNTED ON THE INSIDE OF THE TOWER.

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	DESCRIPTION



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STIFFARM MOUNTS: 150' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE	DRAWING NO.	
DATE 09/25/18	B	414025-DT3	
DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE	PAGE 1 OF 1
REV			



C10151106 6 FT. SIDEARM ASSEMBLY			
1	CK00061	SIDARM ANGLE KIT	138
1	---	MISC HARDWARE (FRAMING)	6
1	C10900110	PIPE ANTENNA MOUNTING KIT 2 3/8" ø X 10'-0	35
4	C40034032	U-BOLT ASSEMBLY 5/8" ø X 5 3/16 C-C	9
TOTAL WEIGHT LBS			188

CK00061 KIT LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CS00067	ANGLE, BOOM SUPPORT	23
2	1	CS01225	ANGLE, TOP CHORD	37
3	1	CS01226	ANGLE, BOTTOM CHORD	37
4	3	CS00065	ANGLE, VERTICAL	23
5	2	CS01228	ANGLE, DIAGONAL	18
TOTAL WEIGHT LBS				138

MISC HARDWARE (FRAMING)				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026022	BOLT ASSEMBLY, 5/8" ø X 1 3/4 A325	4
7	4	C40026023	BOLT ASSEMBLY, 5/8" ø X 2 A325	2
TOTAL WEIGHT LBS				6

C10900110 ANTENNA PIPE MOUNTING KIT				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
8	1	C10981224	ANTENNA MTG. PIPE 2 3/8" ø X 10'-0	32
9	2	C40034023	U-BOLT ASSEMBLY 5/8" ø X 3 1/16 C-C	3
TOTAL WEIGHT LBS				35

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

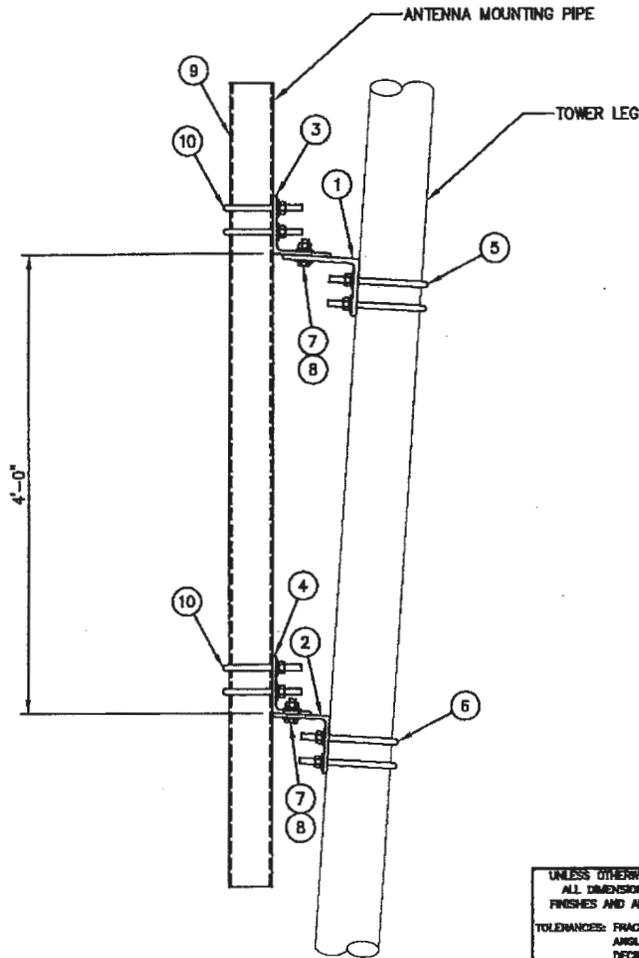
- NOTES:**
1. IF THE MOUNT IS NOT ON THE STRAIGHT PORTION OF THE TOWER SEE SITE SPECIFIC PIPE MOUNT.
 2. QUANTITIES SHOWN IN LIST OF MATERIALS ARE FOR ONE (1) SIDEARM ASSEMBLY ONLY.

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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6 FT. SIDEARMS: 125' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-SA1	REV 0
DATE 09/25/18	DRWN BY DLK	CHECKED BY ZAKV	SCALE NONE
		PAGE 1 OF 1	



ELEVATION VIEW

LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174021

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3" LEG	15
2.	1	CS00215	BOTTOM LEG MOUNT FOR 3" 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	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" (F436)	1
KIT WEIGHT LBS				65

LIST OF ADDITIONAL MATERIALS

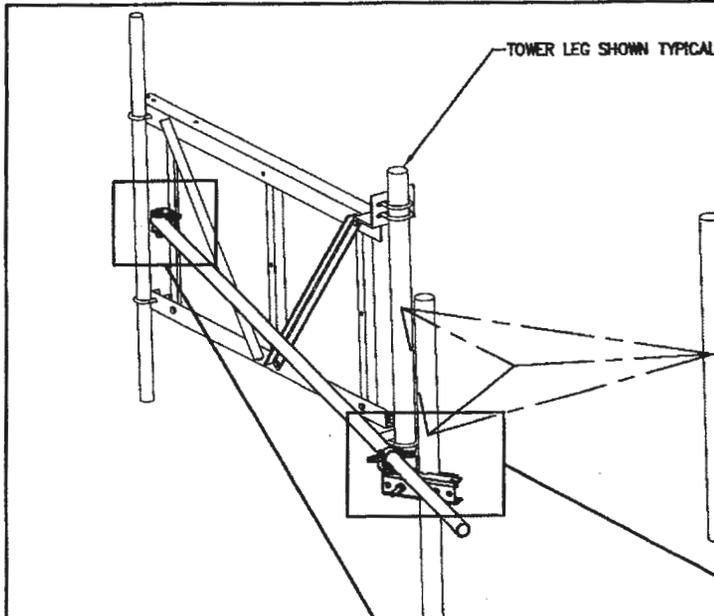
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
9.	1	C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	58
10.	4	C40034032	U-BOLT ASSEMBLY 5/8" x 5 3/16 C-C (PIPE MOUNTS)	9
ADDITIONAL WEIGHT LBS				67
TOTAL WEIGHT LBS				132

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	

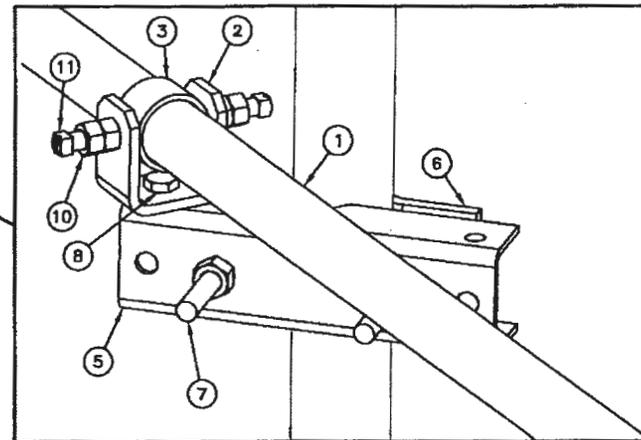
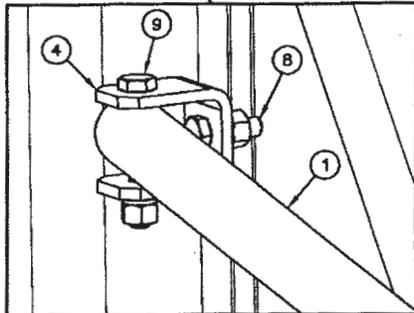


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PIPE MOUNTS FOR SIDEARMS: 125' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE	DRAWING NO.	REV
DATE 09/25/18	/B	414025-PM4	0
DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE	PAGE 1 OF 1



ISOMETRIC VIEW



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
TOTAL WEIGHT				70

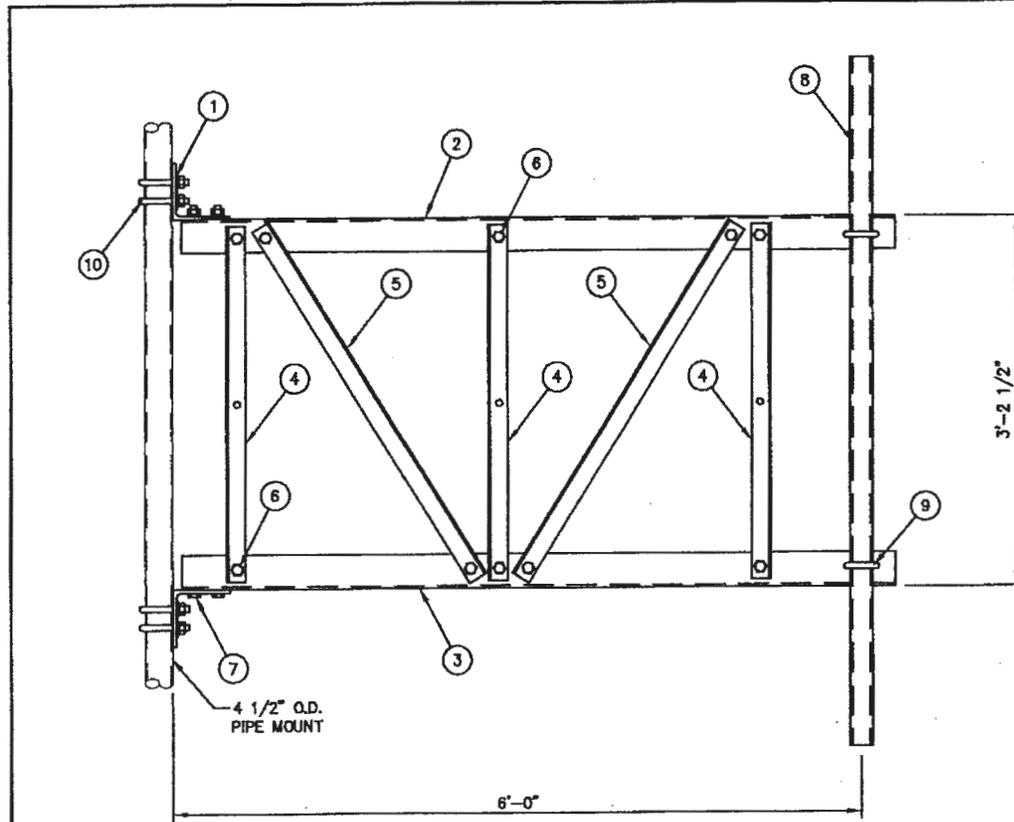
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES			MATERIAL:
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG. DECIMALS ± .010"			TOLERANCES DO NOT APPLY TO RAW MATERIAL.
REV	DATE	DESCRIPTION	

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SWIVEL KNUCKLE TIEBACKS: 125' ELEVATION
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-ST1	REV 0
DATE 08/25/18	DRAWN BY DLK	CHECKED BY ZAK/	SCALE NONE
		PAGE 1 OF 1	



C10151106 6 FT. SIDEARM ASSEMBLY			
1	CK00061	SIDEARM ANGLE KIT	138
1	---	MISC HARDWARE (FRAMING)	6
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			172

CK00061 KIT LIST OF MATERIAL				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1	2	CS00067	ANGLE, BOOM SUPPORT	23
2	1	CS01225	ANGLE, TOP CHORD	37
3	1	CS01226	ANGLE, BOTTOM CHORD	37
4	3	CS00065	ANGLE, VERTICAL	23
5	2	CS01228	ANGLE, DIAGONAL	18
TOTAL WEIGHT LBS				138

MISC HARDWARE (FRAMING)				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
6	10	C40026022	BOLT ASSEMBLY, 5/8" ø X 1 3/4 A325	4
7	4	C40026023	BOLT ASSEMBLY, 5/8" ø X 2 A325	2
TOTAL WEIGHT LBS				6

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

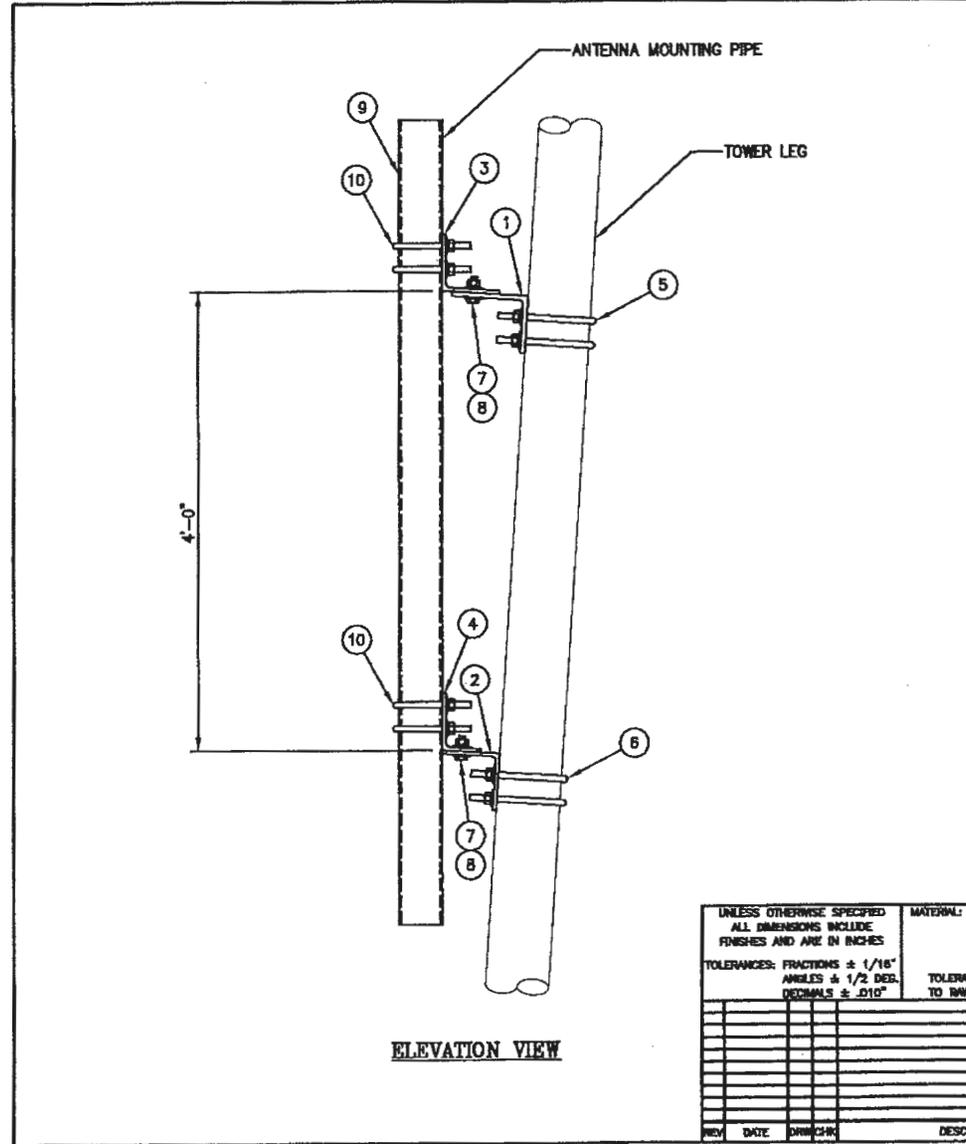
- NOTES:**
- IF THE MOUNT IS NOT ON THE STRAIGHT PORTION OF THE TOWER SEE SITE SPECIFIC PIPE MOUNT.
 - QUANTITIES SHOWN IN LIST OF MATERIALS ARE FOR ONE (1) SIDEARM ASSEMBLY ONLY.

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

Sabre Industries
Towers and Poles

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6 FT. SIDEARMS: 90' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE B	DRAWING NO. 414025-SA2	REV 0
DATE 08/25/18	DRAWN BY DLK	CHECKED BY ZAK	SCALE NONE
			PAGE 1 OF 1



LIST OF MATERIALS FOR TAPERED LEG PIPE MOUNT KIT C10174029				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 3 1/2" 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	C40034028	U-BOLT ASSEMBLY 5/8" X 4 3/16 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		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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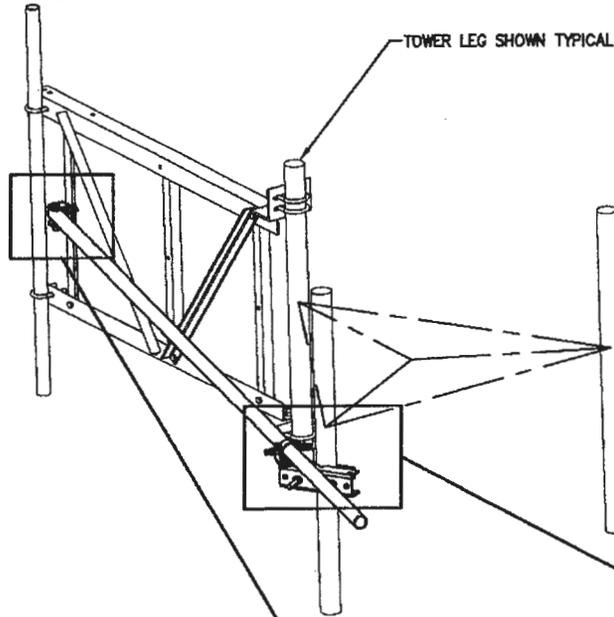
PIPE MOUNTS FOR SIDEARMS: 90' ELEVATION
SITE: HALLSVILLE, MO
CUSTOMER: BOONE COUNTY, MO

JOB NO. 414025	SIZE B	DRAWING NO. 414025-PM5	REV 0
DATE 09/25/18	DRAWN BY DLK	CHECKED BY ZAK/	SCALE NONE PAGE 1 OF 1

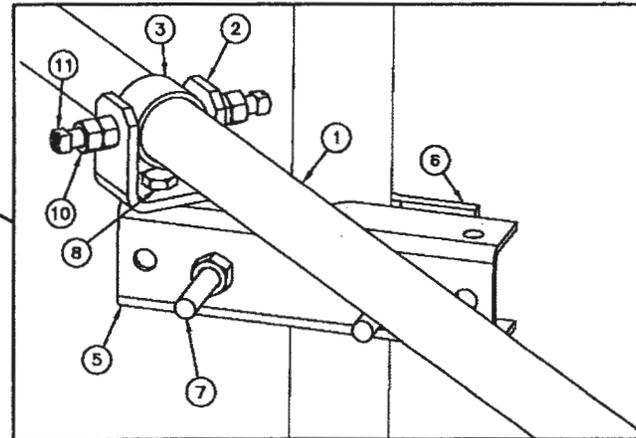
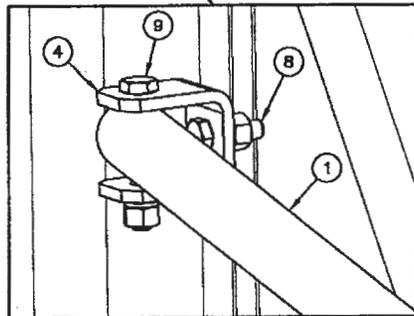


C10179021 SWIVEL KNUCKLE TIEBACK KIT

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	1	CS00248	PIPE, 3 1/2" O.D. X 0.216 X 19'-0	150#
2.	1	CW00060	SWIVEL PLATE WELDMENT	4#
3.	1	CS00247	PIPE, 4 1/2" O.D. X 0.237 X 0'-1 3/4	2#
4.	1	CS00246	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	C40026036	BOLT ASSEMBLY, 5/8 X 5 1/2 A325	1#
10.	2	C40042007	HEX NUT, 5/8 A194 2H	1#
11.	2	C40998007	SO. HEAD SET SCREW, 5/8 X 2 1/2	1#
TOTAL WEIGHT				179#



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	DESCRIPTION			



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SWIVEL KNUCKLE TIEBACKS, 90' ELEVATION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-ST2	REV 0
DATE 08/25/18	DRAWN BY DLK	CHECKED BY ZAK1/	SCALE NONE PAGE 1 OF 1

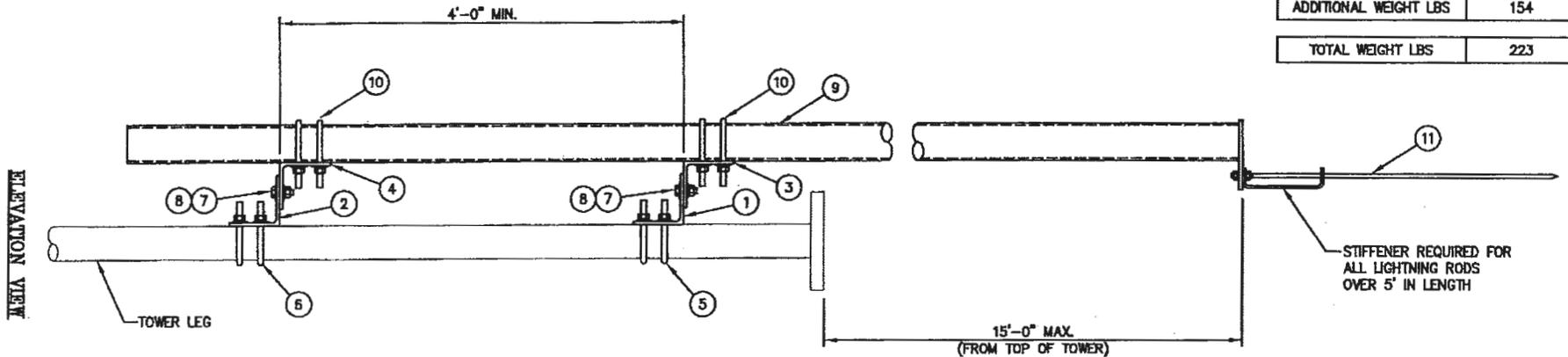


LIST OF MATERIALS FOR STRAIGHT LEG PIPE MOUNT KIT C10173008

ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT LBS
1.	1	CS00216	TOP LEG MOUNT FOR 2" LEG	15
2.	1	CS00216	BOTTOM LEG MOUNT FOR 2" LEG	15
3.	1	CS00214	TOP PIPE MOUNT FOR 2 7/8" PIPE	15
4.	1	CS00214	BOTTOM PIPE MOUNT FOR 2 7/8" PIPE	15
5.	2	C40034022	U-BOLT ASSEMBLY 5/8" x 2 11/16 C-C (TOP LEG MOUNT)	3
6.	2	C40034022	U-BOLT ASSEMBLY 5/8" x 2 11/16 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	CW00032	LIGHTNING ROD EXTENSION 2 7/8" O.D. X 21'-0"	128
10.	4	C40034025	U-BOLT ASSEMBLY 5/8" x 3 9/16 C-C (PIPE MOUNTS)	7
11.	1 KIT	C30986003	LIGHTNING ROD ASSY 3/4" x 8'-0" W/STIFFENER	19
ADDITIONAL WEIGHT LBS				154
TOTAL WEIGHT LBS				223



NOTE:
 THE ASSEMBLY IS SHOWN ON THE OUTSIDE OF THE TOWER.
 IT MAY ALSO BE MOUNTED ON THE INSIDE OF TOWER, IF NECESSARY.

REV	DATE	BY	CHKD	DESCRIPTION

Sabre Industries[®]
 Towers and Poles

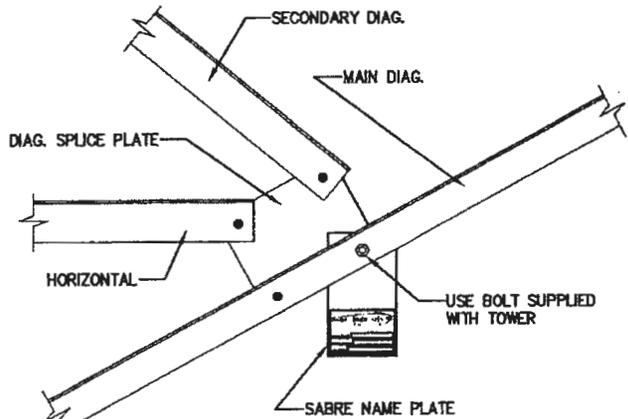
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LIGHTNING ROD W/STIFFENER & EXTENSION			
SITE: HALLSVILLE, MO			
CUSTOMER: BOONE COUNTY, MO			
JOB NO. 414025	SIZE /B	DRAWING NO. 414025-LR	REV 0
DATE 08/26/18	DRAWN BY DLK	CHECKED BY ZAK/V	SCALE NONE PAGE 1 OF 1

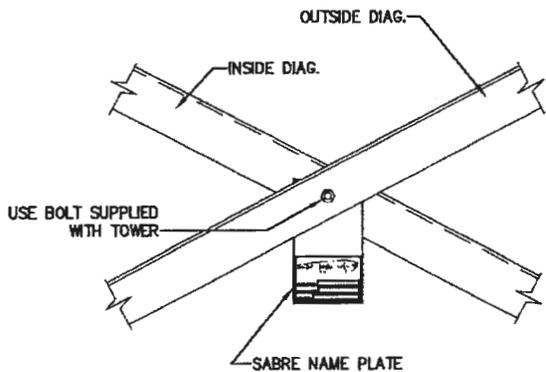
BOLT INSTALLATION DETAILS:

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.

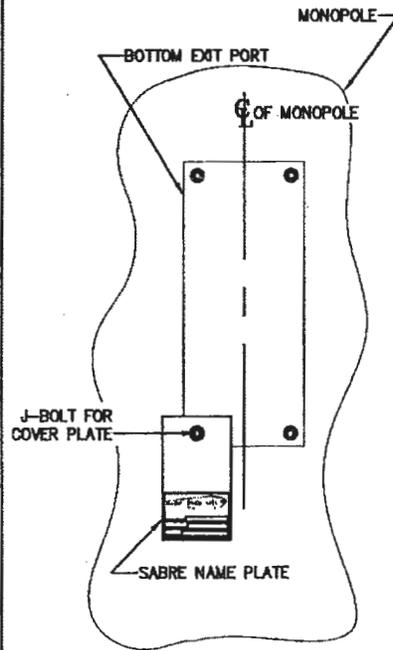
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES TOLERANCES: FRACTIONS $\pm 1/16"$ ANGLES $\pm 1/2$ DEG. DECIMALS $\pm .010"$	MATERIAL: TOLERANCES DO NOT APPLY TO RAW MATERIAL		BOLT INSTALLATION DETAILS																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REV	DATE	BY	DESCRIPTION																																									<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">CONFIDENTIAL</td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> 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. </td> <td style="text-align: center;">SIZE</td> <td style="text-align: center;">DRAWING NO.</td> <td style="text-align: center;">REV</td> </tr> <tr> <td style="text-align: center;">DATE</td> <td style="text-align: center;">01/28/00</td> <td style="text-align: center;">B</td> <td style="text-align: center;">9014671</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">DRAWN BY</td> <td style="text-align: center;">MJM</td> <td colspan="2" style="text-align: center;">SCALE</td> <td style="text-align: center;">PAGE</td> </tr> <tr> <td style="text-align: center;">CHECKED BY</td> <td style="text-align: center;">KJT/DLW</td> <td colspan="2" style="text-align: center;">None</td> <td style="text-align: center;">1 OF 1</td> </tr> </table>		CONFIDENTIAL		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.	SIZE	DRAWING NO.	REV	DATE	01/28/00	B	9014671	3	DRAWN BY	MJM	SCALE		PAGE	CHECKED BY	KJT/DLW	None		1 OF 1
REV	DATE	BY	DESCRIPTION																																																																	
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CHECKED BY	KJT/DLW	None		1 OF 1																																																																



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

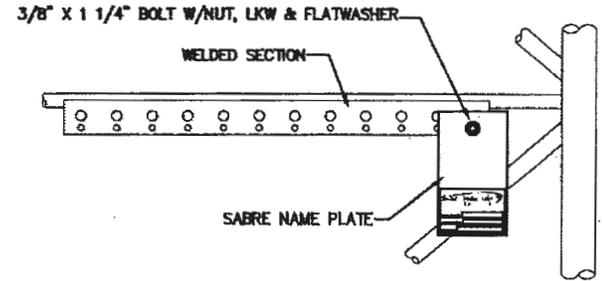


TYPICAL FOR MODEL S3TL, S4TL, S3R & S4R
SELF-SUPPORTING TOWER
(X-BRACE)

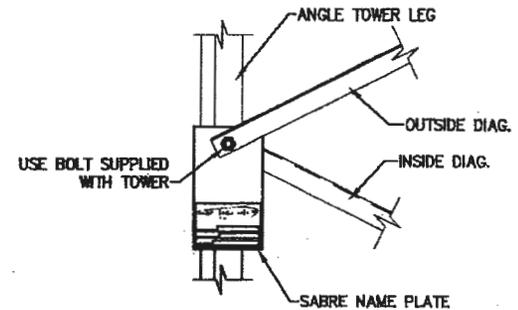


TYPICAL FOR MONOPOLE
STRUCTURE

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

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

MATERIAL:
Sabre Industries®
Towers and Poles

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OPTIONAL MOUNTING INSTALLATION
SABRE NAME PLATE

REV	DATE	BY	DESCRIPTION
1	10/15/06	DEM	ISSUED FOR 2400 & 6000 WELDED GUYED TOWER
2	10/15/06	DEM	ISSUED FOR 3000, 3600, 4400, 4800 & 6000 WELDED GUYED TOWER
3	10/25/06	DEM	ISSUED FOR 2400 WELDED GUYED TOWER
4	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER
5	10/25/06	DEM	ISSUED FOR 3600 WELDED GUYED TOWER
6	10/25/06	DEM	ISSUED FOR 4400 WELDED GUYED TOWER
7	10/25/06	DEM	ISSUED FOR 4800 WELDED GUYED TOWER
8	10/25/06	DEM	ISSUED FOR 6000 WELDED GUYED TOWER
9	10/25/06	DEM	ISSUED FOR 3000 ANGLE GUYED TOWER
10	10/25/06	DEM	ISSUED FOR 3600 ANGLE GUYED TOWER
11	10/25/06	DEM	ISSUED FOR 4800 ANGLE GUYED TOWER
12	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
13	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
14	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
15	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
16	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
17	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
18	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
19	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4
20	10/25/06	DEM	ISSUED FOR 3000 WELDED GUYED TOWER WAS 3/8 X 1/4

DATE	SIZE	DRAWING NO.	REV
10/15/06	B	906956	6
DRAWN BY	CHECKED BY	SCALE	PAGE
DEM	RGF	None	1 OF 1



CUSTOMER : BOONE COUNTY, MO
SITE : HALLSVILLE, MO
B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

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

ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	PACKING		
		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					ANCHOR BOLTS AND TEMPLATES					
2	18	C40041060	0	C40041060	ANCHOR BOLT ASSEMBLY, 1 1/2 Ø X 6'-6 (F1554 GR 105)	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, A.B. TEMPLATE 1 1/2"Ø A.B. ON 10 1/4"Ø B.C.	70				
6					LEG TO LEG TEMPLATE MATERIAL					
7	1 KIT			C30400129	LEG TO LEG TEMPLATE KIT, 17'-3 BASE SPREAD	370				
8					(6) 1 1/2"Ø A.B. ON A 10 1/4"Ø B.C.					
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DATE	7/19/18	JOB NO.	414025
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REV	DATE	DRW	CHK	DESCRIPTION



CUSTOMER : BOONE COUNTY, MO
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		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					TOWER LEGS					
2	3	08-T1181241	0	08-T1181241	SECT. 8 LEG 4 1/2 Ø X 20'-0 5/16 W/STEP BOLTS	3953				
3	3	07-T1181039	0	07-T1181039	SECT. 7 LEG 4 1/4 Ø X 20'-0 5/16 W/STEP BOLTS	3511				
4	3	06-T1181038	0	06-T1181038	SECT. 6 LEG 4 1/4 Ø X 20'-0 5/16	3409				
5	3	05-T1180944	0	05-T1180944	SECT. 5 LEG 3 3/4 Ø X 20'-0 5/16	2735				
6	3	04-T1180940	0	04-T1180940	SECT. 4 LEG 3 1/2 Ø X 20'-0 5/16	2355				
7	3	03-T1180838	0	03-T1180838	SECT. 3 LEG 3 1/4 Ø X 20'-0 5/16	2017				
8	3	02-T1180732	0	02-T1180732	SECT. 2 LEG 3 Ø X 20'-0 5/16	1761				
9	3	01-T1180622	0	01-T1180622	SECT. 1 LEG 2 1/2 Ø X 20'-0 5/16	1258				
10	3	01-T1180608	0	01-T1180608	SECT. 1 LEG 2 Ø X 20'-0 5/16	852				
11										
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DATE	9/25/18	JOB NO.	414025
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REV	DATE	DRW	CHK	DESCRIPTION



CUSTOMER : BOONE COUNTY, MO
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ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	PACKING		
		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					TOWER BRACING					
2	1 KIT				BRACING #08-T8300081 SECTION 08	1534				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02614	1	TS02614	ANGLE, DIAGONAL 3 X 3 X 1/4 X 17'-2 3/4	527				
5	6	TS02615	1	TS02615	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-8 9/16	511				
6	6	TS02616	1	TS02616	ANGLE, DIAGONAL 3 X 3 X 1/4 X 16'-2 1/2	496				
7					SPLICE BOLTS TOP OF SECTION 08					
8	19			C40026115	BOLT ASSEMBLY, 1 1/2 Ø X 6 1/2 A325	115				
9	1 KIT				HARDWARE #TK00261 SECTION 08	38				
10					CONSISTING OF THE MATERIAL LISTED BELOW					
11	10			C40026045	BOLT ASSEMBLY, 3/4 Ø X 2 1/2 A325	8				
12	38			C40026044	BOLT ASSEMBLY, 3/4 Ø X 2 1/4 A325	28				
13	10			C40047009	RINGFILL, 1/2 - 3/4 Ø BOLT	2				
14										
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DATE	9/25/18	JOB NO.	414025
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REV	DATE	DRW	CHK	DESCRIPTION



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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 CONT'D					
2	1 KIT				BRACING #07-T8300071 SECTION 07	1392				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02584	1	TS02584	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-8 1/16	479				
5	6	TS02585	1	TS02585	ANGLE, DIAGONAL 3 X 3 X 1/4 X 15'-2 1/16	464				
6	6	TS02586	1	TS02586	ANGLE, DIAGONAL 3 X 3 X 1/4 X 14'-8	449				
7					SPLICE BOLTS TOP OF SECTION 07					
8	19			C40026094	BOLT ASSEMBLY, 1 1/4 Ø X 5 1/2 A325	69				
9	1 KIT				HARDWARE #TK00261 SECTION 07	38				
10					CONSISTING OF THE MATERIAL LISTED BELOW					
11	10			C40026045	BOLT ASSEMBLY, 3/4 Ø X 2 1/2 A325	8				
12	38			C40026044	BOLT ASSEMBLY, 3/4 Ø X 2 1/4 A325	28				
13	10			C40047009	RINGFILL, 1/2 - 3/4 Ø BOLT	2				
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REV	DATE	DRW	CHK	DESCRIPTION	DATE	9/25/18	JOB NO.	414025
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CUSTOMER : BOONE COUNTY, MO

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PACKING

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		NUMBER	REV							
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #06-T8300064 SECTION 06	943				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02563	1	TS02563	ANGLE, DIAGONAL 3 X 3 X 3/16 X 14'-0 7/8	326				
5	6	TS02564	1	TS02564	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-6 15/16	314				
6	6	TS02565	1	TS02565	ANGLE, DIAGONAL 3 X 3 X 3/16 X 13'-1 1/16	303				
7					SPLICE BOLTS TOP OF SECTION 06					
8	19			C40026094	BOLT ASSEMBLY, 1 1/4 Ø X 5 1/2 A325	69				
9	1 KIT				HARDWARE #TK00260 SECTION 06	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 - 3/4 Ø BOLT	2				
14										
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16										
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20										

REV	DATE	DRW	CHK	DESCRIPTION	DATE	9/25/18	JOB NO.	414025
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CUSTOMER : BOONE COUNTY, 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					TOWER BRACING CONT'D					
2	1 KIT				BRACING #05-T8300059 SECTION 05	870				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02545	1	TS02545	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-10 15/16	229				
5	6	TS02546	1	TS02546	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-6 1/4	221				
6	6	TS02547	1	TS02547	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 11'-1 5/8	214				
7	6	TS02548	1	TS02548	ANGLE, DIAGONAL 2 1/2 X 2 1/2 X 3/16 X 10'-9	206				
8					SPLICE BOLTS TOP OF SECTION 05					
9	19			C40026094	BOLT ASSEMBLY, 1 1/4 ϕ X 5 1/2 A325	69				
10	1 KIT				HARDWARE #TK00194 SECTION 05	30				
11					CONSISTING OF THE MATERIAL LISTED BELOW					
12	13			C40026023	BOLT ASSEMBLY, 5/8 ϕ X 2 A325	6				
13	50			C40026022	BOLT ASSEMBLY, 5/8 ϕ X 1 3/4 A325	22				
14	13			C40047003	RINGFILL, 3/8 THICK - 5/8 ϕ BOLT	2				
15										
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REV	DATE	DRW	CHK	DESCRIPTION	DATE	9/25/18	JOB NO.	414025
					DRAWN BY	DLK	PRINT NO.	BOM-1
					CHECKED BY	KD	PAGE	6 OF 20



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, MO

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PACKING

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		NUMBER	REV							
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #04-T8300052 SECTION 04	776				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02517	1	TS02517	ANGLE, DIAGONAL 2 X 2 X 1/4 X 10'-3 11/16	205				
5	6	TS02518	1	TS02518	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-11 3/16	198				
6	6	TS02519	1	TS02519	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-6 11/16	190				
7	6	TS02520	1	TS02520	ANGLE, DIAGONAL 2 X 2 X 1/4 X 9'-2 1/4	183				
8					SPLICE BOLTS TOP OF SECTION 04					
9	19			C40026080	BOLT ASSEMBLY, 1 Ø X 4 3/4 A325	44				
10	1 KIT				HARDWARE #TK00259 SECTION 04	32				
11					CONSISTING OF THE MATERIAL LISTED BELOW					
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										
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REV	DATE	DRW	CHK	DESCRIPTION	DATE	9/25/18	JOB NO.	414025
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					CHECKED BY	KD	PAGE	7 OF 20



CUSTOMER : BOONE COUNTY, MO

SITE : HALLSVILLE, 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					TOWER BRACING CONT'D					
2	1 KIT				BRACING #03-T8300046 SECTION 03	509				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02493	1	TS02493	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-10 1/2	136				
5	6	TS02494	1	TS02494	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-6 1/8	130				
6	6	TS02495	1	TS02495	ANGLE, DIAGONAL 2 X 2 X 3/16 X 8'-1 7/8	124				
7	6	TS02496	1	TS02496	ANGLE, DIAGONAL 2 X 2 X 3/16 X 7'-9 11/16	119				
8					SPLICE BOLTS TOP OF SECTION 03					
9	19			C40026079	BOLT ASSEMBLY, 1 Ø X 4 1/2 A325	43				
10	1 KIT				HARDWARE #TK00194 SECTION 03	30				
11					CONSISTING OF THE MATERIAL LISTED BELOW					
12	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6				
13	50			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	22				
14	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
15										
16										
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B.O.M. 180 FT. MODEL S3R-SD SELF-SUPPORTING TOWER

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ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	PACKING		
		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #02-T8300037 SECTION 02	305				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	6	TS02457	1	TS02457	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-4 1/8	76				
5	6	TS02458	1	TS02458	ANGLE, DIAGONAL 2 X 2 X 1/8 X 7'-0 1/8	73				
6	6	TS02459	1	TS02459	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-8 3/16	68				
7	6	TS02460	1	TS02460	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-4 7/16	65				
8	3	TS02449	1	TS02449	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 5/8	23				
9					SPLICE BOLTS TOP OF SECTION 02					
10	19			C40026077	BOLT ASSEMBLY, 1 Ø X 4 A325	39				
11	1 KIT				HARDWARE #TK00134 SECTION 02	33				
12					CONSISTING OF THE MATERIAL LISTED BELOW					
13	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6				
14	57			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	25				
15	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
16										
17										
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20										
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ITEM NO.	NO. REQ'D.	DRAWING		PART NO.	DESCRIPTION	TOTAL WEIGHT LBS.	PAINT	PACKING		
		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #01-T8300031 SECTION 01-20	542				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	24	TS02443	1	TS02443	ANGLE, DIAGONAL 2 X 2 X 1/4 X 6'-2 3/4	497				
5	3	TS02411	1	TS02411	ANGLE, HORIZONTAL 2 X 2 X 1/4 X 4'-5 3/4	45				
6					SPLICE BOLTS TOP OF SECTION 01-20					
7	13			C40026048	BOLT ASSEMBLY, 3/4 Ø X 3 1/4 A325	11				
8	1 KIT				HARDWARE #TK00146 SECTION 01-20	35				
9					CONSISTING OF THE MATERIAL LISTED BELOW					
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										
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		NUMBER	REV							
1					TOWER BRACING CONT'D					
2	1 KIT				BRACING #01-T8300029 SECTION 01-20	280				
3					CONSISTING OF THE MATERIAL LISTED BELOW					
4	24	TS02441	1	TS02441	ANGLE, DIAGONAL 2 X 2 X 1/8 X 6'-2 3/4	257				
5	3	TS02409	1	TS02409	ANGLE, HORIZONTAL 2 X 2 X 1/8 X 4'-5 3/4	23				
6	1 KIT				HARDWARE #TK00134 SECTION 01-20	33				
7					CONSISTING OF THE MATERIAL LISTED BELOW					
8	13			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	6				
9	57			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	25				
10	13			C40047003	RINGFILL, 3/8 THICK - 5/8 Ø BOLT	2				
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		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					SAFETY CLIMB					
2	1 KIT			C30012054	200' TUF-TUG SAFETY CLIMB MATERIAL	95				
3										
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		NUMBER	REV							
1					CLIMBING LADDER					
2	9	CW00118	0	CW00118	WELDMENT, 20 FT. CLIMBING LADDER 16" WIDE	851				
3	18	CS00037	2	CS00037	PLATE, LADDER SPLICE	7				
4	2	CS00242	1	CS00242	ANGLE, LADDER BASE SUPPORT	15				
5	46	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	25				
6					CLIMBING LADDER HARDWARE					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	26			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	8				
9	40			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	4				
10	98			C40044002	STEP BOLT ASSEMBLY, 5/8" Ø X 7 H.D.G.	98				
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		NUMBER	REV					KIT	QTY OF PKG'S	PKG. NO.
1					WAVEGUIDE LADDER (WG1)					
2	18	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	540				
3	45	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	207				
4	18	CS00037	2	CS00037	PLATE, LADDER SPLICE	7				
5	46	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	25				
6					WAVEGUIDE LADDER HARDWARE (WG1)					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	26			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	8				
9	130			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	13				
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		NUMBER	REV							
1					WAVEGUIDE LADDER (WG2)					
2	16	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	480				
3	40	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	184				
4	16	CS00037	2	CS00037	PLATE, LADDER SPLICE	6				
5	42	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	23				
6					WAVEGUIDE LADDER HARDWARE (WG2)					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	22			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	7				
9	115			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	12				
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		NUMBER	REV							
1					WAVEGUIDE LADDER (WG3)					
2	12	CS00146	2	CS00146	ANGLE, WAVEGUIDE LADDER RAIL 20 FT. W/4 FT. RUNG SPC	360				
3	30	CS00413	0	CS00413	ANGLE, WAVEGUIDE SUPPORT (15 HOLE)	138				
4	12	CS00037	2	CS00037	PLATE, LADDER SPLICE	5				
5	34	CS00169	2	CS00169	CLIP, LADDER ATTACHMENT	19				
6					WAVEGUIDE LADDER HARDWARE (WG3)					
7	20			C40039002	J-BOLT ASSEMBLY, 3/8" Ø X 7 1/4 I.L.	7				
8	14			C40039001	J-BOLT ASSEMBLY, 3/8" Ø X 5 3/4 I.L.	4				
9	85			C40024004	BOLT ASSEMBLY, 3/8" Ø X 1 1/2 GRD 5	9				
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		NUMBER	REV							
1					FIXED PLATFORM @ 178'					
2	1 KIT			CK00015	ROTATABLE PLATFORM ANGLE KIT	1178				
3	1 KIT			CK00048	ANGLE KIT MIS FRAMING MATL 2 3/8" OD LEG	338				
4	6			C10901210	ANTENNA MTG. PIPE 2 3/8" Ø X 10'-6"	239				
5	6	CS00308	0	CS00308	ANGLE, LEG MOUNT 2" Ø	40				
6	12	CS00265	0	CS00265	ANGLE, PIPE MOUNT	37				
7	3	C20137005	0	C20137005	PLATFORM GRATING	169				
8					Z-BRACKET PIPE MOUNTS @ 170'					
9	3 KITS			C10173006	STRAIGHT LEG PIPE MOUNT KIT	205				
10	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
11	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
12					STIFFARM MOUNTS FOR PIPE MOUNTS @ 170'					
13	3 KITS			C10105020	DISH MOUNT TIEBACK ASSEMBLY	396				
14					Z-BRACKET PIPE MOUNTS @ 160'					
15	3 KITS			C10173011	STRAIGHT LEG PIPE MOUNT KIT	205				
16	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
17	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
18					STIFFARM MOUNTS FOR PIPE MOUNTS @ 160'					
19	3 KITS			C10105020	DISH MOUNT TIEBACK ASSEMBLY	396				
20										

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		NUMBER	REV							
1					Z-BRACKET PIPE MOUNTS @ 150'					
2	3 KITS			C10173013	STRAIGHT LEG PIPE MOUNT KIT	206				
3	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
4	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
5					STIFFARM MOUNTS FOR PIPE MOUNTS @ 150'					
6	3 KITS			C10105022	DISH MOUNT TIEBACK ASSEMBLY	397				
7					6' SIDEARM MOUNTS @ 125'					
8	3 KITS			C10151106	6 FT. SIDEARM ASSEMBLY	436				
9	3 KITS			C10900110	PIPE ANTENNA MOUNTING KIT 2 3/8" Ø X 10'-0	105				
10	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
11					Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 125'					
12	3 KITS			C10174021	TAPERED LEG PIPE MOUNT KIT	191				
13	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
14	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
15					SWIVEL KNUCKLE TIEBACKS FOR SIDEARMS @ 125'					
16	3 KITS			C10179002	SWIVEL KNUCKLE TIEBACK KIT 2 3/8"Ø PIPE X 13'-3"	210				
17					6' SIDEARM MOUNTS @ 90'					
18	3 KITS			C10151106	6 FT. SIDEARM ASSEMBLY	436				
19	3 KITS			C10900105	PIPE ANTENNA MOUNTING KIT 2 3/8" Ø X 5'-0	58				
20	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				

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		NUMBER	REV							
1					Z-BRACKET PIPE MOUNTS FOR SIDEARMS @ 90'					
2	3 KITS			C10174029	TAPERED LEG PIPE MOUNT KIT	193				
3	3			C10981407	ANTENNA MTG. PIPE 4 1/2" X 7'-0"	175				
4	12			C40034032	U-BOLT ASSEMBLY 5/8" Ø X 5 3/16 C-C	26				
5					SWIVEL KNUCKLE TIEBACKS FOR SIDEARMS @ 90'					
6	3 KITS			C10179021	SWIVEL KNUCKLE TIEBACK KIT 3 1/2"Ø PIPE X 19'-0"	537				
7					LIGHTNING ROD					
8	1 KIT			C10173006	STRAIGHT LEG PIPE MOUNT KIT	68				
9	1	CW00032	2	CW00032	LIGHTNING ROD EXTENSION 2 7/8" O.D. X 21'-0	128				
10	4			C40034025	U-BOLT ASSEMBLY 5/8" Ø X 3 9/16 C-C	7				
11	1 KIT			C30986003	LIGHTNING ROD ASSY 3/4"Ø X 8'-0" W/STIFFENER	19				
12					HARDWARE					
13	95			C40026023	BOLT ASSEMBLY, 5/8 Ø X 2 A325	44				
14	70			C40026022	BOLT ASSEMBLY, 5/8 Ø X 1 3/4 A325	31				
15	15			C40024013	BOLT ASSEMBLY, 3/8" Ø X 3 3/4 GRD 5	3				
16	13			C40034023	U-BOLT ASSEMBLY 5/8" Ø X 3 1/16 C-C	17				
17	13			C40034022	U-BOLT ASSEMBLY 5/8" Ø X 2 11/16 C-C	21				
18	15			C40046001	FENDER WASHER, 3/8" Ø X 1 1/2 X .097	1				
19	15			C40031001	FLATWASHER, 3/8" Ø	1				
20										

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		NUMBER	REV							
1					MISCELLANEOUS					
2	1			C40068001	COLD GALVANIZING SPRAY	1				
3	1	CS00500	0	CS00500	TOWER NAME PLATE	1				
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					DRAWN BY	DLK	PRINT NO.	BOM-1
					CHECKED BY	ZAK	PAGE	20 OF 20

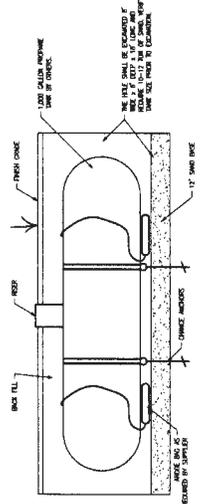


MALICOAT - WINSLOW ENGINEERS, P.C.
 MISSOURI STATE ENGINEER OF ARCHITECTS #000421
 3649 N. CLEARVIEW ROAD
 COLUMBIA, MISSOURI 65202
 PHONE MALICOAT, P.E.
 TEL 575-875-1300 FAX 575-875-1305

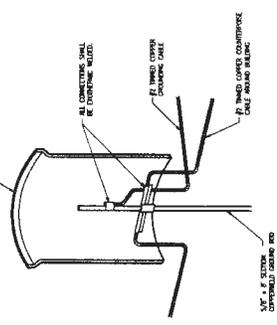
BOCO HALLSVILLE FACILITY
 780 E HIGHWAY 124
 HALLSVILLE, BOONE COUNTY, MO 65255

PROJECT: 18065
 SHEET: ME2
 TITLE: MECHANICAL/ELECTRICAL DETAILS
 REVISIONS: 10-05-18

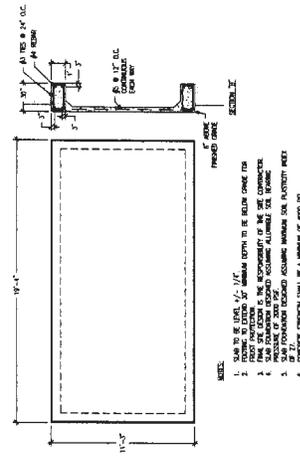
- GENERAL NOTES:**
- VERIFY OWNER REQUIREMENTS FOR OWNER'S SPECIFIC STANDARDS PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL VERIFY ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL VERIFY THE WORKING OF ALL INSTRUMENTS AND SMALL TOOL AND EQUIPMENT IN A LOCK, CLOSURE, OR CONTAINMENT WALL.
 - VERIFY WORKING METHODS AND MATERIALS WITH OWNER PRIOR TO INSTALLATION.
 - ALL CONNECTIONS TO BE CHECKED UNLESS NOTED OTHERWISE.



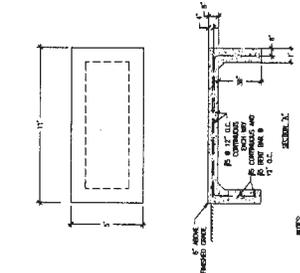
1 FUEL TANK INSTALLATION
 SCALE: NO SCALE



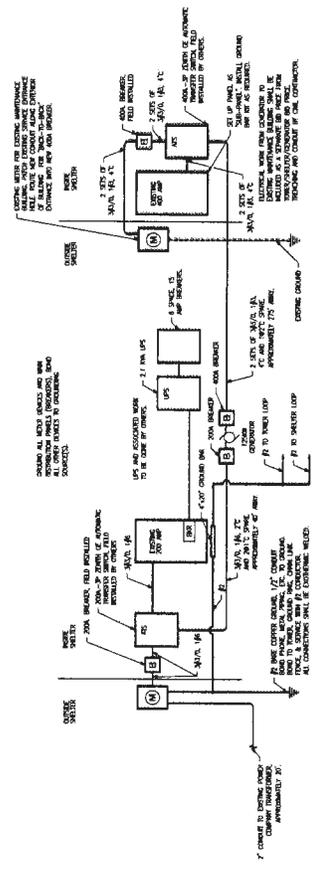
2 GROUND WELL
 SCALE: NO SCALE



3 FOUNDATION PAD DETAIL
 SCALE: NO SCALE



4 GENERATOR PAD DETAIL
 SCALE: NO SCALE



5 ELECTRIC RISER DIAGRAM
 SCALE: NO SCALE

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

County of Boone

} ca.

February Session of the January Adjourned

Term. 20 19

In the County Commission of said county, on the

5th

day of

February

20 19

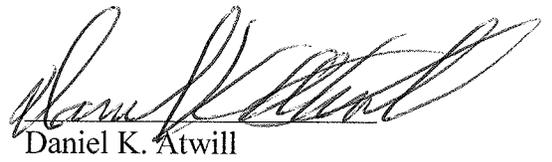
the following, among other proceedings, were had, viz:

Now on this day, the County Commission of the County of Boone does hereby approve the Organizational Use of the Boone County Government Center Chambers by Mid-Missouri Civil Liberties Association on February 16th, 2019 from 1:30 pm to 4:30 pm.

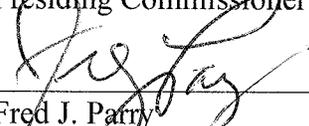
Done this 5th day of February 2019.

ATTEST:

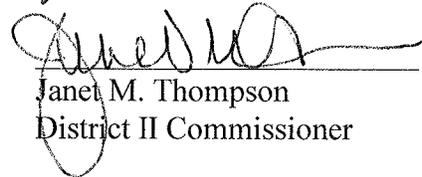
Brianna L. Lennon
Brianna L. Lennon
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Fred J. Parry
District I Commissioner



Janet M. Thompson
District II Commissioner



Boone County Commission

APPLICATION FOR ORGANIZATIONAL USE OF BOONE COUNTY CONFERENCE ROOMS

The undersigned organization hereby applies for a use permit to use Boone County Government conference rooms as follows:

Organization: Mid-Missouri Civil Liberties Association

Address: 15 N. 10th St

City: Columbia State: MO ZIP Code 65201

Phone: 660 573-443-6866 Website: _____

Individual Requesting Use: Dan Viets Position in Organization: President

Facility requested: Chambers Room 301 Room 311 Room 332 Centralia Clinic

Event: Barbara Papish

Description of Use (ex. Speaker, meeting, reception): speaker/discussion

Date(s) of Use: Sat Feb 16

Start Time of Setup: _____ AM/PM Start Time of Event: 2:00 p.m

End Time of Event: 4:00 p.m. AM/PM End Time of Cleanup: _____

The undersigned organization agrees to abide by the following terms and conditions in the event this application is approved:

1. To abide by all applicable laws, ordinances and county policies in using Boone County Government conference rooms.
2. To remove all trash or other debris that may be deposited (by participants) in rooms by the organizational use.
3. To repair, replace, or pay for the repair or replacement of damaged property including carpet and furnishings in rooms.
4. To conduct its use in such a manner as to not unreasonably interfere with Boone County Government building functions.
5. To indemnify and hold the County of Boone, its officers, agents and employees, harmless from any and all claims, demands, damages, actions, causes of action or suits of any kind or nature including costs, litigation expenses, attorney fees, judgments, settlements on account of bodily injury or property damage incurred by anyone participating in or attending the organizational use of rooms as specified in this application.

Organization Representative/Title: Dan Viets, President

Phone Number: 573.443.6866 Date of Application: 1.30.19

Email Address: danviets@gmail.com

Applications may be submitted in person or by mail to the Boone County Commission, 801 E. Walnut, Room 333, Columbia, MO 65201 or by email to commission@boonecountymo.org.

PERMIT FOR ORGANIZATIONAL USE OF BOONE COUNTY GOVERNMENT CONFERENCE ROOMS

The County of Boone hereby grants the above application for permit in accordance with the terms and conditions above written. The above permit is subject to termination for any reason by duly entered order of the Boone County Commission.

ATTEST:

Brianna J. Lennert
County Clerk

BOONE COUNTY, MISSOURI
Roger B. Wilson
County Commissioner

DATE: 2.5.19