STATE OF MISSOURI

September Session of the July Adjourned

Term. 20 15

**County of Boone** 

In the County Commission of said county, on the

29th

day of

September

15

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 by Kevin R. and Carla J. Pudenz and K & C Rental Properties LLC to rezone from A-1 (Agriculture) to A-2 (Agriculture) on 34.85 acres, more or less, located at 9400 W Coyote Hill Rd., Harrisburg.

Done this 29th day of September, 2015

ATTEST:

Wendy S. Møren

Clerk of the County Commission

Daniel K. Atwil

**Presiding Commissioner** 

Karen M. Miller

District I Commissioner

Janet M.Thompson

STATE OF MISSOURI **County of Boone** 

September Session of the July Adjourned

Term. 20 15

In the County Commission of said county, on the

29th

day of

September

15

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

Now on this day the County Commission of the County of Boone does hereby receive and accept the following subdivision plat and authorize the Presiding Commissioner to sign it:

Scenic Heights Plat 1. S15-T47N-R13W. A-2. Phillip and Brice Hanberry, owners. David T. Butcher, surveyor.

Done this 29th day of September, 2015.

ATTEST:

Clerk of the County Commission

**Presiding Commissioner** 

Karen M. Miller

District I Commissioner

Janet M. Thompson

September Session of the July Adjourned

Term. 20

Tounty of Boone

In the County Commission of said county, on the

September Session of the July Adjourned

Term. 20

15

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 for the 13<sup>th</sup> Judicial Circuit Court to increase revenue and expenditures for the DMC Grant to fund training and travel for the Teen Court panel.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
1243	3451	Judicial Grants	State Reimb Grant		1,006
1243	23050	Judicial Grants	Other Supplies		252
1243	71100	Judicial Grants	Outside Services		754

Done this 29th day of September, 2015.

ATTEST:

Wendy S./Moren

Clerk of the County Commission

Daniel K. Atwill

Presiding Commissioner

Karen M. Miller

District 1 Commissioner

Janet M. Thompson

### REQUEST FOR BUDGET AMENDMENT

### **BOONE COUNTY, MISSOURI**

	9/1	/15		
FFFE	CTI	VE	D	ATE

FOR AUDITORS USE

			_										\$ amounts)
D	epa	rtme	ent ——			Ad	ccol	ınt		Department Name	Account Name	Decrease	Increase
1	2	4	3		0	3	4	5	1	Judicial Grants	State Reimb Grant		\$1,006.00
1	2	4	3		2	3	0	5	0	Judicial Grants	Other Supplies		\$ 252.00
1	2	4	3		7	1	1_	0	0	Judicial Grants	Outside Services		\$ 754.00
			<u> </u>				 		<u> </u>				
 			<u> </u>	_					ļ				
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l													

Describe the circumstances requiring this Budget Amendment. Please address any budgetary impact for the remainder of this year and subsequent years. (Use attachment if necessary): To increase revenue and expenditures for the DMC Grant. This grant will fund training and travel for the Peer Ambassadors who make up the Teen Court panel. The implementation is to be completed by 9/30/15.

(Requesting Official	Willia Zapira	
$\checkmark$	Requesting Official	

 $\alpha M$ 

TO BE COMPLETED BY AUDITOR'S OFFICE

Agende

 $N rac{1}{2}$  A schedule of previously processed Budget Revisions/Amendments is attached.

A fund-solvency schedule is attached.

Comments: DMC Grant

Auditor's Office

DDESIDING COMMISSIONED

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.



### MISSOURI JUVENILE JUSTICE ASSOCIATION

Promoting justice for children, youth and families

#### **Board of Directors**

President Beverly Newman Harrisonville

Vice President Jordan Land West Plains

Secretary
Courtney Pulley
Columbia

Treasurer Douglas E. Abrams Columbia

**Board Members** 

Denny Atherton Kansas City

Paula Cunningham Jefferson City

Katie Duvall Waynesville

Christine Fahy St Louis City

Paula Fleming Columbia

Jeff Osburg St Louis County

Frances Reddington Warrensburg

Brian Valentine Holts Summit

Jim Wallis St Louis County

Carolyn Whitehorn St Louis City

Marty Yust Neosho

Ex Officio Tammy Walden Camdenton

### MJJA Office

Executive Director Marcia Hazelhorst

DMC Coordinator Seth Bauman

Administrative Assistant Lisa M. Davis September 1, 2015

Ruth McCluskey Chief Juvenile Officer 13<sup>th</sup> Judicial Circuit 705 E. Walnut Columbia, Missouri 65201

Dear Ruth:

I have reviewed your DMC contractual funding application. I am pleased to award you funds in the amount of \$1,005.86 for the Boone County Teen Court program. You may only use funds as outlined in your proposal. All changes to your proposal must be approved in advance of any expenditures, etc.

Upon completion of your expenditures for the program, please submit an invoice with all receipts and proof of payment to me by no later than September 30, 2015. All invoices should be sent to me at the following address:

Marcia Hazelhorst Missouri Juvenile Justice Association PO Box 1332 Jefferson City, Missouri 65102

Sincerely,

Marcia Hazelhorst

Director

### Missouri Juvenile Justice Association

### Disproportionate Minority Contact-Diversion Strategies Contractual Funding Application

### State of the Problem

### Description:

In a report from August 2013, completed by the Office of the State Courts Administrator, African-American youth are almost six times more likely to be referred to the Juvenile Justice System in Boone County Missouri. The Thirteenth Judicial Circuit Court is committed to reducing the Disproportionate Minority Contact of youth in our community. The Boone County Juvenile Office, Columbia Public School District, Boone County Sheriff's Department, and Columbia Police Department have signed a Memorandum of Understanding, to establish a cooperative relationship among the agencies in the handling of juveniles alleged to have committed a delinquent act in which the school may have disciplinary power. In 2014 the Columbia Public School District and the Thirteenth Judicial Circuit Court partnered in implementing Teen Court in two Columbia Public Schools. Teen Court is a diversion program that offers students that have committed an offense in their school another option to receiving a consequence for their actions without being referred to the Juvenile Justice System.

### Goals/Objectives

### Description of Goals/Objectives:

In the 2014-2015 academic year, eleven students participated in Teen Court, and all eleven that participated in the program were African-American. Our goal is to continue to divert youth from the Juvenile Justice System, which will reduce the over-representation of minorities being referred to the Juvenile Justice System. Along with diverting youth from the Juvenile Justice System, we want Teen Court to act as positive peer pressure to help build a stronger community within the schools, and ensure students take accountability for their actions.

### **Expected Outcomes:**

Teen Court has been implemented to divert youth from being referred to the Juvenile Justice System. We look to continue to develop and improve the program, so we can continue to reduce the number of students being referred to the Boone County Juvenile Office.

GOALS/OBJECTIVES
Description of Goals/Objectives:
Please see attached document.
Expected Outcomes:
Strategy/Program
Description of Strategy/Program:
Please see attached document:  Will it specifically address DMC: Partial Mostly Entirely  PROGRAM EVALUATION  Description: Please see attached document.
Evaluation Period: Bi-Monthly Quarterly Bi-Annually Annually
BUDGET JUSTIFICATION/AMOUNT APPLYING FOR
Description of Budget Justification: Please see attached document.
Amount Requested: Detailed Description of How Funds Will Be Spent:

The Missouri Juvenile Justice Association (MJJA) is a statewide, not for profit 501 (c) (3) organization whose mission is dedicated to promoting justice for children, youth and families within Missouri. Funds are made available for this project through the Missouri Department of Public Safety and the Missouri Juvenile Justice Advisory Group from funding provided by the U.S Department of Justice, Office of Juvenile Justice and Delinquency Prevention.

### Description of Strategy/Program:

The Columbia Public School District and the Thirteenth Judicial Circuit Court have partnered in the implementation of Teen Court in two middle schools. We currently have Teen Court at West Middle School and Lange Middle School in Columbia, Missouri. Teen Court is offered to students who meet eligibility for the program, and that admit to committing to the offense. The student that committed the offense appears in front of a panel of students from the Peer Ambassadors class at their school. The Peer Ambassadors class is a leadership class made of students that have been chosen to represent their school. The panel assigns the student consequences for the offense committed. The student is typically assigned to complete community service work hours and apology letters. If the student successfully completes their consequences they will not be referred to the Boone County Juvenile Office.

Will it specifically address DMC: Mostly

### **Program Evaluation**

### **Description:**

I have developed an evaluation for the student that appears in Teen Court, and their parent to complete in regards to their experience in Teen Court. We have received positive remarks from parents whose children participated in Teen Court. One parent advised me, and the Principal of West Middle School, Dr. Connie Dewey, that she appreciated the chance for her daughter to participate in Teen Court instead of being referred to the Juvenile Office.

**Evaluation Period:** Annually

### **Budget Justification/Amount Applying For**

### **Description of Budget Justification:**

The 7 Habits of a Highly Effective Teen Workbook:40 workbooks @ \$3.43 each=\$137.20

Binders: 40 binders, 4 pack for \$10.99 x 10=\$109.90

Transportation for 2 field trips: \$450.00 Substitute teacher for 2 field trips: \$303.76

Card stock/printing for certificates for Teen Court participants and Peer

Ambassadors: \$5.00

Amount Requested: \$1,005.86

### **Detailed Description of How Funds Will Be Spent:**

The requested funds will be utilized to train and educate the Peer Ambassadors from West Middle School and Lange Middle School. The Peer Ambassadors are the individuals who make up the Teen Court panel. We plan to take one field trip to Hardin Middle School in St. Charles, Missouri, so the Peer Ambassadors can observe and talk with the students of their Teen Court. We plan to also take the Peer Ambassadors to the Boone County Courthouse to tour the Courthouse, and to speak with Judge Leslie Schneider and Commissioner Sara Miller. The teachers of the Peer Ambassadors classes will accompany the classes on the field trips, therefore they will need substitute teachers for their other classes. The binders are for the Peer Ambassadors to organize the work they do in the Peer Ambassadors class. We will print certificates for the students that successfully complete Teen Court, and for the students in the Peer Ambassadors class.

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---- Forwarded by Alison Houston/13/Courts/Judicial on 09/01/2015 01:13 PM ----

From:

"Seth Bauman" <seth@mjja.org>

To:

<ruth.mccluskey@courts.mo.gov>
<Alison.Houston@courts.mo.gov>

Cc: Date:

09/01/2015 11:30 AM

Subject:

Teen Court Program Funding Award

### Hi Ruth,

Please accept the attached document as your Award Letter for your DMC contractual funding application.

Remember: All receipts need to be in before September 30, 2015 in order to receive reimbursement.

Thanks,

#### Seth Bauman

### **DMC Coordinator**

MO Juvenile Justice Association P O Box 1332 Jefferson City, MO 65102

Tel: (573) 616-1058 www.mjja.org







"Promoting justice for children, youth and families"



Boone County DMC Award #2 Teen Court.pdf



### Fw: Teen Court Program Funding Award

Courtney Pulley to: Diana Vaughan Co: Ruth McCluskey, Yvette Poindexter

09/01/2015 01:23 PM

Hey Diana,

See below. I have attached the award letter we received from the Missouri Juvenile Justice Association regarding Teen Court. Do we need to get this set on the agenda for a budget amendment for the funds to be approved for use?

Courtney Pulley
Supervisor-Boone County
Thirteenth Judicial Circuit Court
Family Court Services-Juvenile Division
705 E. Walnut Street
Columbia, Missouri 65201
(573)886-4200 office
(573)886-4030 fax
courtney.pulley@courts.mo.gov

Confidentiality Notice: "This email message, including the attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply email and destroy all copies of the original message."

---- Forwarded by Courtney Pulley/13/Courts/Judicial on 09/01/2015 01:19 PM -----

From:

Alison Houston/13/Courts/Judicial

To: Cc: Courtney Pulley/13/Courts/Judicial@Judicial Ruth McCluskey/13/Courts/Judicial@Judicial

Date:

09/01/2015 01:14 PM

Subject:

Fw: Teen Court Program Funding Award

The signed award letter is below.

If there is any way possible for this to go this week, that would be outstanding! We need to order the books asap, and everything has to be turned in by 09/30.

Thank you,
Alison Houston
Deputy Juvenile Officer II
Thirteenth Judicial Circuit Court
Family Court Services-Juvenile Division
705 East Walnut
Columbia, MO 65201
(573) 886-4200
(573) 886-4030 (fax)
alison.houston@courts.mo.gov



### Missouri Juvenile Justice Association

DISPROPORTIONATE MINORITY CONTACT DIVERSION STRATEGIES

CONTRACTUAL FUNDING APPLICATION

SEND TO: SETH@MJJA.ORG

Circuit/County:	13th Circuit-Boone County
Agency:	Boone County Juvenile Office
Person Submitting Proposal:	Alison Houston
Email Address:	alison.houston@courts:mo.gov
Date:	7/15/15

### INSTRUCTIONS/REQUIREMENTS

Please provide a brief description of the following:

- 1. Statement of the Problem. (Over Representation of Youth of Color, Where and Why?)
- 2. Goal/Objective. (What do you plan to do about the current problem?)
- 3. Strategy/Program. (How Will you achieve your goals and objectives?)
- 4. Program Evaluation. (How will you assess your programs accomplishments?)
- 5. Cost/Budget Justification. [Cost and short budget summary of expenses and income.]

### STATEMENT OF THE PROBLEM

### Description:

Please see attached document.

The Missouri Juvenile Justice Association (MJJA) is a statewide, not for profit 501 (e) (3) organization whose mission is dedicated to promoting justice for children, youth and families within Missouri. Funds are made available for this project through the Missouri Department of Public Safety and the Missouri Juvenile Justice Advisory Group from funding provided by the U.S Department of Justice, Office of Juvenile Justice and Delinquency Prevention.

STATE OF MISSOURI

September Session of the July Adjourned

Term. 20 15

**County of Boone** 

In the County Commission of said county, on the

29th

day of September

20 15

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

Now on this day the County Commission of the County of Boone does hereby approve the following budget revision for the Sheriff's Department for the purchase and installation of an expansion tank for the existing and new water heaters.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
1123	86800	Emergency & Contingency	Emergency	3,381	
1256	92200	Sheriff/Corr Bldg HK/Maintenance	Repl. Buildings & Improv		3,381

Done this 29th day of September, 2015.

ATTEST:

Wendy S Xloren

Clerk of the County Commission

Daniel K. Atwill

Presiding Commissioner

Karen M. Miller

District I Commissioner

Janet M. Thompson

### **BOONE COUNTY, MISSOURI** REQUEST FOR BUDGET REVISION

9/21/15 EFFECTIVE DATE

FOR AUDITORS USE

(Use whole \$ amounts) Transfer From Transfer To

Dept	Account	Fund/Dept Name	Account Name_	Decrease	Increase
1123	86800	Emergecy & Contingency	Emergency	3,381	
1256	92200	Sheriff/Corr Bldg HK/Maint	Relp Buildings & Improv		3,381
			_		
			i		
			1	3,381	3,381

Describe the circumstances requiring this Budget Revision.	Please address any budgetary impact for the remainder of this
year and subsequent years. (Use an attachment if necessar	y):
Revision #2- Evagasion tank needed for the water heater ins	rtall

Do your anticipate that this Budget Revision will provide sufficient funds to compete the year? YES or NO if not, please explain (use an attachment if necessary):

Requesting Official

TO BE COMPLETED BY AUDITOR'S OFFICE

☐ A schedule of previously processed Budget Revisions/Amendments is attached ☐ Unencumbered funds are available for this budget revision.

@ Comments: Add Expansion Tank of Jail

DISTRICT I COMMISSIONER

### J. Louis Crum Corporation

Mechanical Contractor

1312 Creasy Springs Road Columbia, Missouri 65202 (573) 443-2488 Boone County Commission Boone County Jail Heating Air Conditioning Plumbing Commercial Refrigeration FAX: (573) 443-3469

DATE: August 31, 2015

RE: Expansion Tank for Water Heaters Purchase Order #20150000106

**ATTN: Melinda Bobbitt** 

### **PROPOSAL**

We purpose to furnish labor and material to furnish and install an expansion tank and modify the cold water supply to the water heaters (existing and new) in accordance to AO Smith Water Heater manufacturer's Warranty Notification Letter dated 8/25/2015 and attached. This will involve adding a new 3/4" tie-in domestic water pipe connecting all the water heaters together to be protected by the expansion tank.

_				
ധര	ทร	ISt	ına	of:

COLIC	nating of.	
1–	Amtrol ST-30VC ASME Expansion Tank	1,644.30
40-	3/4" Copper Type L @ \$2.26/LF	90.40
10-	3/4" 90 Ell Copper @ \$1.30/ea.	13.00
2-	3/4" MIP Copper @ \$2.03/ea.	4.06
2-	3/4" 45 FTG. Copper @ \$1.80/ea.	3.60
1-	3/4" Copper coupling @0.85/ea.	0.85
2-	3/4" Unions @ \$7.40/ea.	7.40
2-	3/4" Ball Valves @\$21.65/ea.	43.30
6-	Hangers @\$5.79/ea.	34.74
2-	Reducing Tees 1 1/2" X 3/4"@\$10.89/ea.	<u>21.78</u>

Material Subtotal \$1,863.43

Insulation Contractor <u>\$200.00</u>

Sub Total \$2,063.43

Operating and Profit @ 15% 309.52

MATERIAL & INSULATION TOTAL \$2,372.95

LABOR 12.00 hours @ \$84.00/hour 1,008.00

TOTAL.....\$3,380.95

Please let me know of any questions.

STEVE W. SHUFELBERGER Spiece K. Shufelleze

2015 Emergency Fund 1123-86800

DATE	DEPARTMENT	DEPT. NO.	ACCOUNT	ORIGINAL BUDGET	AMOUNT USED	REMAINING BUDGET	DESCRIPTION
DATE	DEPARTMENT		ACCOUNT	-BODGLI	0320	- BODGET	DESCRIPTION
1/1/2015	Original budget			775,000		775,000	Original budget
1/26/2015	Sheriff	1251	91300 New Equipment		(9,600)	765,400	Increase Expenses to match grant revenue
1/26/2015	Sheriff	1251	23860 Vehicle Equipment <\$100	0	(5,853)	759,547	Increase Expenses to match grant revenue
2/24/2015	Insurance Claim Activity	1195	Multiple		(55,531)	704,016	Cover claims on two replacement Sheriff vehicles
6/26/2015	Sheriff/Corr Bldg HK/Maint	1256	92200 Repl Buildings & Improv		(29,420)	674,596	Replace 2 water heaters in Jail
7/9/2015	Sheriff/Corr Bldg HK/Maint	1256	92300 Replc Mach & Equip		(4,797)	669,799	Replace dryer at jail
9/22/2015	Sheriff/Corr Bldg HK/Maint	1256	92200 Repl Buildings & Improv		(3,381)		Add expansion tank for 2 water heaters in Jail
						666,418	
						666,418	
						666,418	
						666,418	
						666,418	
						666,418	
						666,418	
						666,418	
			Total	775,000	(108,582)	666,418	

STATE OF MISSOURI

September Session of the July Adjourned

Term, 20 15

**County of Boone** 

In the County Commission of said county, on the

29th

day of

September

20 15

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

Now on this day the County Commission of the County of Boone does hereby award bid 50-25AUG15 – Telephone Business Handsets to Synergy Telcom, Inc.

The terms of the bid 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 29th day of September, 2015.

ATTEST:

Clerk of the County Commission

Daniel K. Atwill

Presiding Commissioner

Karen M. Miller

District I Commissioner

Janet M. Thompson

450-2015

# **Boone County Purchasing**

**Jacob M. Garrett** Buyer



613 E. Ash Street, Room 111 Columbia, MO 65201 Phone: (573) 886-4393

Fax: (573) 886-4390

### **MEMORANDUM**

TO:

**Boone County Commission** 

FROM:

Jacob M. Garrett, Buyer

DATE:

September 2, 2015

RE:

50-25AUG15 – Telephone Business Handsets

Bid 50-25AUG15 – Telephone Business Handsets closed on August 25, 2015. Four bids were received.

The primary phone that we will be purchasing for replacement is the Meridian 5316. We originally purchased the 5312, however, that phone is no longer being made and the 5316 is the replacement. For that reason, the bid evaluation was based on the new/refurbished pricing received for the 5316 model. Recommendation for an "all or none" award is to Synergy Telcom, Inc for offering the lowest and best bid.

This is a County-Wide Term and Supply contract that will be used on an as needed basis.

cc: Bid File

	PRICING		SY	NERGY TELC	OM		HEL	LO DIRECT,	INC		LIBERTY C	OMMUNICA	TIONS, INC
BIC	TABULATION	<u>Make &amp;</u> <u>Model</u>		Refurbished Price (each)		Make & Model	New Price (each)	e Refurbished Price (each)	Cost to Repair Handset not Purchased from the Awarded Vendor	Make & Model	New Price (each)	Refurbished Price (each)	Cost to Repair Handse not Purchased from the Awarded Vendor
4.8.1.	Meridian 5316 – With Display and Hands Free Capability. 13 programmable line- feature keys	Nortel 5316 NT 4X42	\$278.20	\$69.00	\$45.00 each	Merdian 5316	\$286.13	\$79.00	No Repair	Merdian 5316	\$290.00	\$79.00	\$79.00
4.8.2.	Meridian 5312-03 – With caller ID.	Nortel 5312 NT 4X37	No Bid	No Bid	\$45.00 each	Product no longer made.	N.A.	N.A.	N.A.	Merdian 5312	N.A.	\$79.00	\$79.00
4.8.3.		Describe Any Deviations			Desc	ribe Any Devia	tions	Describe Any Deviations					
		As mentioned in bid specs. Best replacement for the 5312 is the 5316 for best purchase option for county.			N.A.			N.A.					
4.8.4.		Describe or Attach Warranty			Describe or Attach Warranty			Describe or Attach Warranty					
		Synery Telcom In. offers a FREE Two Year Advance Replacment Warranty on all New/Refurbished & Repaired equipment sold. Boone County will simply contact Liss with the models & qty's and an RMA will be issued. Upon receipt of the Advance Replacements Boone County will use the enclosed/Synergy provided UPS label to return the unwanted phones that Synergy replaced under warranty. Quick & easy procedure.			New Product - 1 Year Warranty & Refurbished Product - 18 Month Warranty			1 Year Replacment Warranty					
4.8.5.	Percent Discount From List	for any other equipment ordered that is not detailed within:50+%.			for any other equipment ordered that is not detailed within:%.			for any other equipment ordered that is not detailed within: _N/A%.					
4.8.6.	Maximum Percent	Increase or Decrease in Pricing for each Renewal Period:  CPI %		ach Renewal Period:	Increase or Decrease in Pricing for each Renewal Period:5%			Increase or Decrease in Pricing for each Renewal Period: _0_%					
4.8.7.	Delivery	1	After Receipt o	of Order:2-3 L	JPS days	After Receipt of Order: <u>7 Business</u> days		After Receipt of Order: days					
4.8.9.	Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?	ubmitted prices for purchase by other entities in Boone			-	<u>X</u>	_YES or	NO		X	YES or	NO	

50-25AUG15 Telephone Business Handsets

	PRICING	HOLZBERG COMMUNICATIONS, INC					
BIC	TABULATION	Make & Model	New Price (each)	Refurbished Price (each)	Cost to Repair Handset not Purchased from the Awarded Vendor		
4.8.1.	Meridian 5316 – With Display and Hands Free Capability. 13 programmable line- feature keys	Nortel Merdian M5316 NT4 4X42 - BLK	N.A.	\$69.00	\$29.00 *		
4.8.2.	Meridian 5312-03 – With caller ID.	Nortel NT4X37 M5312 Phone - blk	N.A.	\$125.00	\$29.00 *		
4.8.3.			Desc	ribe Any Devia	tions		
		* NEW Nortel Meridian M5000 Replacement Handsets (Not Repairs)					
4.8.4.		Describe or Attach Warranty					
				1 Year			
4.8.5.	Percent Discount From List	for any other equipment ordered that is not detailed within:					
4.8.6.	Maximum Percent	Increas	e or Decrease	in Pricing for e	ach Renewal Period:		
4.8.7.	Delivery	After Receipt of Order: days					
4.8.9.	Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?	X					

450-2015

USER NAME	PASSWORD	
		LOG IN
Foront Disgraphie?	Forcint Password?	

		Create an A
	· · · · · · · · · · · · · · · · · · ·	
<b></b>	SYNERGY TELCOM, INC. DUNS: 168926272 CAGE Code: 3QER5	8222 INDY LF INDIANAPOLIS, IN, 46214-2327 ,
Entity	Status: Active	UNITED STATE
)ashboard	Expiration 0	ate: 05/19/2016
	Purpose of Reg	istration: All Awards
Entity Record		
Core Data	Entity	Overview
<u>Assertions</u>		The second secon
Reps & Certs		Many
<u>POCs</u>	Entity Information	
Reports	Name: SYNERGY TELCOM, INC.	
Service Contract Report	Business Type: Business or Organization POC Name: Lisa Gemmer	
BioPreferred Report	Registration Status: Active Activation Date: 05/20/2015 Expiration Date: 05/19/2016	
Exclusions		
Active Exclusions		
Inactive Exclusions		
Excluded Family Members	Exclusions	
RETURN TO SEARCH	Active Exclusion Records? No	

SAM | System for Award Management 1.0

IBM v1.P.34.20150710-1415

WWW1





**Note to all Users:** This is a Federal Government computer system. Use of this system constitutes consent to monitoring at all times.

450-8015

Name Searched On:

SYNERGY TELCOM INC (Legal)

**Current Information** 

Entity Legal Name:

SYNERGY TELCOM, INC.

Entity Address:

8222 INDY LN, INDIANAPOLIS, IN 46214

General Entity Information:

Control Number: 2000042700248

Status: Active

**Entity Type: For-Profit Domestic Corporation** 

Entity Creation Date: 4/27/2000

Entity Date to Expire: Entity Inactive Date:

This entity is current with Business Entity Report(s).

### Other Names for this Entity:

Date	Name (Type)
5/2/2001	SYNERGY TELCOM (Assumed) / MARION County )
11/15/2012	SYNERGY DATA PRODUCTS, INC. (Assumed))
12/13/2013	SYNERGY SMART PHONE, INC. (Assumed))

### **Additional Services Available:**

GO	View additional information for the entity, including transaction history, merger information, registered agent, principals and corporate report information (years paid and years due).
60	<b>Generate an official Certificate of Existence/Authorization</b> . There is a total fee of \$20.00 for <i>IN.gov</i> subscribers and a fee of \$21.42 for credit card users. Example Certificate. Please note that when an entity has a past due business entity report, the Certificate of Existence will indicate that the entity is not current. An entity is current if no reports are past due.
G0	Generate Copies of Business Entity Documents.
GÚ	Request Information Printouts or Certificates. There is no fee to place an order; however, you will be billed for any statutory fees associated with your order.  View fee schedule View turn around time
Ğ0	<b>File Supplemental Filings.</b> Select this option to determine what filings are available online for this entity.

Page 2 of 2 More Information

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If you encounter technical difficulties while using these services, please contact the *IN.gov* <u>Webmaster</u>. If you are unable to find the information you need through the resources provided on this web site, please contact Secretary of State Connie Lawson's Business Services Division at 317-232-6576.

« Back to the SOS Web site

450-2015

# PURCHASE AGREEMENT FOR TELEPHONE BUSINESS HANDSETS - TERM AND SUPPLY

THIS AGREEMENT dated the 29th day of September 2015 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and Synergy Telcom, Inc., herein "Contractor."

**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 Telephone Business Handsets Term and Supply, County of Boone Request for Bid, bid number 50-25AUG15, Introduction and General Conditions of Bidding, Primary Specifications, Response Presentation and Review, the un-executed Response Form, Standard Terms and Conditions, as well as the Contractor's bid response executed by Lisa Gemmer 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, this Purchase Agreement, the Introduction and General Conditions of Bidding, Primary Specifications, Response Presentation and Review, the un-executed Response Form, and the Standard Terms and Conditions shall prevail and control over the Contractor's bid response.
- 2. Contract Duration This agreement shall commence on November 1, 2015 and extend through October 31, 2016 subject to the provisions for termination specified below. This agreement may be extended beyond the expiration date by order of the County for four (4) additional one year periods subject to the pricing clauses in the Contractor's bid response and thereafter on a month to month basis in the event the County is unable to re-bid and/or award a new contract prior to the expiration date after exercising diligent efforts to do so or not.
- **3.** *Purchase* The County agrees to purchase from the Contractor and the Contractor agrees to supply the County Telephone Business Handsets as identified and responded to in the Contractor's Response Form. Items will be provided as required in the bid specifications and in conformity with the contract documents for the prices set forth in the Contractor's bid response, as needed and as ordered by the County.

<b>Description</b>	New Price	Refurbished Price	Cost to Repair Handset
			Not Purchased from Contractor
Nortel 5316 NT4X42	\$278.20	\$69.00	\$45.00
Nortel 5312 NT4X37			\$45.00

- 4. Delivery: The Contractor agrees to deliver equipment within two days after receipt of order.
- 5. Billing and Payment All billing shall be invoiced to the ordering Boone County Office / Department, and may only include the prices as identified in the Contractor's bid response. No additional fees for delivery or extra services not included in the bid response or taxes shall be included as additional charges in excess of the charges in the Contractor's bid response to the specifications. The County agrees to pay all invoices within thirty days of receipt; Contractor agrees to honor any cash or prompt payment discounts offered in its bid response if county makes payment as provided therein. 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 Contractor, 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.

- **6. 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.
- 7. Entire Agreement This agreement constitutes the entire agreement between the parties and supersedes any prior negotiations, written or verbal, and any other bid or bid specification or contractual agreement. This agreement may only be amended by a signed writing executed with the same formality as this agreement.
- **8.** *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.

synergy telcom, Inc  by Sise K. Slevener  title National Ocaret Manager  address 8222 Indy Lane  Indianepolis, In. 46244.	by: Boone County Commission  Warred  Daniel K. Atwill, Presiding Commissioner
APPROVED AS TO FORM:  For CT Dyk house  County Counselor	ATTEST:  Warde S. Noren, 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 the contract do not create a measurable county obligation at this time.)

Signature Pitchford by Ha-No Encumbrance Required Appropriation Account

4.	Response Form				
4.1.	Company Name:				
	Synergy Telcom	Inc.			
4.2.	Address:				
4.3.	-8222 Indy Lane City/Zip:			<del></del>	
1.5.	Indianapolis IN	46214			
4.4.	Phone Number:	105.11		<del></del>	
	(800) 201-7590	ext. 201			
4.5.	Fax Number:				
4.6.	(317) 713-1658 E-Mail Address:			<del></del>	
,	lisa.gemmer@sv	nergy-tel.com			
4.7.	Federal Tax ID:				
7.1.	35-2107051 ( x) Corporation				
,	( ) Partnership - Name				
	( ) Individual/Proprietorsh	ip - Individual Name			<u></u>
	( ) Other (Specify)	N. N. S. C.			of martiners and amountains the second discountry of the second discoun
1.8.	PRICING				to the second of
				E. personale is a	Cost to Repair
	*	:			Handset not Purchased from
	1		New Price	Refurbished	the Awarded
	•	Make & Model	(each)	Price (each)	Vendor
	Meridian 5316 - With				
	Display and Hands Free Capability. 13	N 15040 NT 1940	#070 00/h	000 00/- n-h	\$45 00/coch
	programmable line-feature	Nortel 5316 NT4X42	\$278.20/each	\$69.00/each	\$45.00/each
8.1.					
8.2.	Meridian 5312-03 – With caller ID.	Nortel 5312 NT4X37	No Bid	No Bid	\$45.00/each
8.3.	Describe Any Deviations				
0.5.			FOI C for book assumble	no ontion for the Cour	
	As mentioned in bid specs, best rep	blacement for the 5312 is the	55 To for best purchas	se option for the Cour	ny.
8.4.	Describe or Attach Warra	ınty			
	Synergy Telcom Inc. offers a FREE	Two Year Advance Replace	ement Warranty on all	New/Refurbished & F	Repaired equipment solo
	Boone County will simply contact L	isa with the models & qty's a	nd an RMA will be iss	ued.	
	Upon receipt of the Advance Repla	cements Boone County will u	use the enclosed/Syne	ergy provided UPS lab	el to return the unwante
		nty. Quick & easy procedure.			

Bid #50-25AUG15 Page 7 8/11/2015

4.8.5.	Percent Discount From List for any other equipment ordered that is not detailed within:50+_%.					
4.8.6.	Maximum Percent Increase or Decrease in Pricing for each Renewal Period: CPL %					
4.8.7.	Delivery After Receipt of Order: 2-3 days Groundays					
4.8.9.	Will you honor the submitted prices for purchase by other entities in Boone County who participate in cooperative purchasing with Boone County, Missouri?  X No					
	PLEASE ATTACH THREE (3) COPIES OF YOUR RESPONSE INFORMATION AND ANY OTHER REQUIRED BID SUBMISSION ITEMS.					
4.8.10	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.					
4.8.11	Authorized Representative (Sign By Hand):					
4.8.12.	Print Name and Title of Authorized Representative  Date: 8-14-15					
	Lisa K.Gemmer - National Account Manager Date: 8-14-15					

### (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.
- 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.

Lisa K. Gemmer -National Account Manager		
Name and Title of Authorized Representative		
A ratio of Authorized Representative		
His K. Venner	8-14-15	
Signature	Date	



**Boone County Purchasing** 613 E. Ash St. Room 111 Columbia, MO 65201

Jacob M. Garrett, Buyer

Phone: (573) 886-4393; Fax: (573) /886-4390

Email: JGarrett@boonecountymo.org

Bid Data

Bid Number: 50-25AUG15

Commodity Title: Telephone Business Handsets

### DIRECT BID FORMAT OR SUBMISSION QUESTIONS TO THE PURCHASING DEPARTMENT

Bid Submission Address and Deadline

Day / Date: Tuesday, August 25, 2015

Time: 1:30 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 St. Room 111

Columbia, MO 65201

Directions: The Annex Building is located at the corner of 7<sup>th</sup> and Ash Streets. Enter the building from the South Side. Wheel chair accessible entrance is available on the South side of the building.

**Bid Opening** 

Day / Date: Tuesday, August 25, 2015

Time:

1:30 P.M. (Bids received after this time will be returned

Location / Address:

**Boone County Purchasing Department** 

**Boone County Annex Building** 613 E. Ash St. Room 111

**Bid Contents** 

1.0: Introduction and General Conditions of Bidding

2.0: Primary Specifications

3.0: Response Presentation and Review

4.0: Response Form

**Debarment Form** 

**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. An "Invitation For Bid" is used when the need is well defined. An "Invitation 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 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, guarantee, warranty 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.
- 1.5.2. **CONTRACT PERIOD** Any Term and Supply Contract period resulting from this Bid will have an initial term from date of award through **November 1, 2015 through October 31, 2016** and may be automatically **renewed for an additional four (4) one-year periods** unless canceled by Purchasing Director in writing prior to a renewal term.
  - 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 a contract for the furnishing and delivery of **Telephone Business Handsets** as specified below for the County of Boone Missouri.
- 2.1.1. **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.
- 2.2. **History:** Most of the offices/departments at Boone County are on CenturyLink's centranet system. Replacement phones must be compatible with our existing phone infrastructure: Centrex, DMS 100 located in the CenturyLink building in Columbia, Missouri.

Our original Meridian phones were purchased new from Centurytel in 1995. Most of the phones purchased were Merdian 5312. Since that time, the County has been purchasing refurbished phones with lifetime warranties from TRCA. We understand the Meridian 5312 handsets have been discontinued, and the best replacement for that handset phone is the Meridian 5316.

The County is seeking a vendor to replace or repair non-functioning handsets on an "as needed" basis. Offices/departments placing orders for replacement phones are located in the Columbia, MO area. There are approximately 400 phones lines at the County.

### 2.3. SPECIFICATIONS

- 2.3.1. Quantity: Replacement phones will be ordered on an "as needed" basis. Quantity is not guaranteed. In 2014, \$11,260.00 dollars were spent with TRCA. The County purchased 30 M5312 Sets, 45 M5316 sets, 2 M522 add-on mods at \$95.00 each and TRCA did 3 repairs at \$65.00. This usage is provided for informational purpose and is not a guarantee of total dollars spent per year.
- 2.3.2. The County will accept bid pricing for both new and refurbished phone sets. During evaluation, the County will determine if award will be for new, refurbished or both. The County reserves the right to award to multiple vendors if in the best interest of the County. In addition, if you offer repair of existing phones, please provide a repair price on the Response Form.
- 2.3.3. The County has listed some telephone handsets (Single and Two Line Phones) on the Response Form. Please provide pricing and include with your Bid Response descriptive literature with pictures of each phone bid.
- 2.3.4. **Billing and Payment:** Invoices /Monthly Statement shall be submitted to each individual County Office/Department that orders from the contract. Monthly Statement must be submitted to the respective Office/Department for payment which will be made 30 days after receipt of a correct and valid statement.
- 2.3.5. **Inspection:** All items delivered shall be subject to inspection after delivery. If deficient in any respect, the items shall be rejected and returned at bidder's expense for full credit or replacement at no additional cost to the County.
- 2.3.6. **Descriptive Literature:** Bidders proposing to furnish items other than specified must submit Complete Descriptive Literature with bid. Bids received without descriptive literature are subject to rejection.
- 2.3.7. **Or Equal:** Bidders are to bid as specified herein or bid an approved equal. Determination of equality is solely Boone County's responsibility.
- 2.3.8. **Guarantee:** Bidder agrees at a minimum to unconditionally guarantee all equipment against defect in material, workmanship and performance for a period of one year from the date of acceptance by the County, unless otherwise specified.

- 2.3.9. **Warranty:** Bidder shall submit with their bid a complete description of any and all warranties offered as part of this contract.
- 2.3.10. Contact Jacob M. Garrett, Boone County Purchasing Department 613 E. Ash St. Room 111, Columbia, MO 65201. Telephone: (573) 886-4393; Facsimile: (573) 886-4390. E-mail: JGarrett@boonecountymo.org.
- 2.3.11. **Delivery Terms:** FOB Destination Inside Delivery Delivery shall be made FOB Destination with freight charges fully included and prepaid. The seller pays and bears the freight charges.
- 2.3.11.1. Delivery shall be to the Boone County ordering office/department.

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### 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 noted 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.
- 3.2.1. **Advice of Award** If you wish to be advised of the outcome of this Bid, the results may also be viewed on our web page www.showmeboone.com.
  - 3.3. **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.
- 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** The County reserves 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** 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.
  - 3.5. **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 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** The County will evaluate submitted Responses in relation to all aspects of this Bid.
- 3.5.2. **Acceptability** The County reserves the sole right to determine whether goods and/or services offered are acceptable for County use.
- 3.5.3. **Endurance of Pricing** Bidder's 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:				
4.4.	Phone Number:				
4.5.	Fax Number:				
4.6.	E-Mail Address:				
4.7.	Federal Tax ID:				
4.7.1.	( ) Corporation				
	( ) 13 ( 1 ! 3 !				
	( ) Individual/Proprietorshi	p - Individual Name			_
	( ) Other (Specify)				
4.8.	PRICING				
		M.L. O.M. I.I.	New Price	Refurbished	Cost to Repair Handset not Purchased from the Awarded
	NA.:1: 521( XVI:4L	Make & Model	(each)	Price (each)	Vendor
4.8.1.	Meridian 5316 – With Display and Hands Free Capability. 13 programmable line-feature keys				
4.8.2.	Meridian 5312-03 – With caller ID.				
4.8.3.	Describe Any Deviations				•
4.8.4.	Describe or Attach Warran	nty			
					and the second s
					2000

Purchasing Department

9/2/2015

County of Boone

4.8.5.	Percent Discount From List for any other equipment of	rdered that is not detailed within:%.		
4.8.6.	Maximum Percent Increase or Decrease in Pricing fo	or each Renewal Period:%		
4.8.7.	Delivery After Receipt of Order: days			
4.8.9.	Will you honor the submitted prices for purchase by oth cooperative purchasing with Boone County, Missouri? Yes No	er entities in Boone County who participate in		
	PLEASE ATTACH THREE (3) COPIES OF YOUR R. OTHER REQUIRED BID SUBMISSION ITEMS.	ESPONSE INFORMATION AND ANY		
4.8.10	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 certification 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.			
4.8.11	Authorized Representative (Sign By Hand):			
4.8.12.	Print Name and Title of Authorized Representative	Date:		
		Date:		



## Standard Terms and Conditions

Boone County Purchasing 613 E. Ash St. Room 111 Columbia, MO 65201

Jacob M. Garrett, Buyer

Phone: (573) 886-4393; Fax: (573) /886-4390 Email: JGarrett@boonecountymo.org

- 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.

## (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.
- 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

Boone County Purchasing Jacob M. Garrett Buyer



613 E. Ash St. Room 111 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 <u>for this service/commodity</u>, 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: 50-25AUG15 – Telephone Business Handsets

(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

September Session of the July Adjourned

29th

15 Term. 20

**County of Boone** 

day of

September

15

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

In the County Commission of said county, on the

Now on this day the County Commission of the County of Boone does hereby approve the attached Contract Amendment Number Two to 36-22JUN15 - Water Heaters for the Boone County Sheriff.

The terms of this amendment are stipulated in the attached Contract Amendment. It is further ordered the Presiding Commissioner is hereby authorized to sign said Contract Amendment Number Two.

Done this 29th day of September, 2015.

ATTEST:

Clerk of the County Commission

Daniel K. Atwill

**Presiding Commissioner** 

Karen M. Miller

District I Commissioner

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

## **MEMORANDUM**

TO:

**Boone County Commission** 

FROM:

Melinda Bobbitt, CPPB, CPPO

DATE:

June 2, 2015

RE:

Amendment Number Two – 36-22JUN15 – Water Heater(s) for the Boone

County Sheriff

Contract 36-22JUN15 – Water Heaters for the Boone County Sheriff was approved by commission for award to J. Louis Crum Corporation of Columbia, Missouri for \$29,420.00 on July 16, 2015, commission order 301-2015. This amendment adds an ASME expansion tank for \$3,380.95.

J. Louis Crum has one of the two new water heaters installed, hooked up and ready to start up, which with the required warranty has to be performed by the AO Smith. AO Smith questioned that the system never had an expansion tank installed at the jail.

This change order includes all the work associated, including adding a new water line that ties the system together to install an expansion tank that will serve all the water heaters, new and old.

Invoices will be paid from department 1256 – Sheriff/Corrections Building HK/Maintenance, account 92200 – Replacement Buildings / Improvements. \$29,420 remains in the account at this time.

cc:

Chad Martin, Sheriff Dept.

Contract File

Commission Order: <u>451-2015</u>

# CONTRACT AMENDMENT NUMBER TWO PURCHASE AGREEMENT FOR WATER HEATER(S) FOR THE BOONE COUNTY SHERIFF

The Agreement **36-22JUN15** dated July 16, 2015 made by and between Boone County, Missouri and **J. Louis Crum Corporation**, for and in consideration of the performance of the respective obligations of the parties set forth herein, is amended as follows:

- 1. ADDITION of an ASME expansion tank for \$3,380.95.
- 2. Except as specifically amended hereunder, all other terms, conditions and provisions of the original agreement and Amendment Number One shall remain in full force and effect.

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

J. LOUIS CRUM CORPORATION	BOONE COUNTY, MISSOURI
by Shottfor	by: Boone County Commission
title Markner	Daniel K. Atwill, Presiding Commissioner
APPROYED AS TO FORM:	ATTEST:
For CT Dykhouse.	Wendy S. Woren, County Clerk
County Counselor	Wendy S. Moren, County Clerk

### **AUDITOR CERTIFICATION**

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.)

Signature Pitchford by 3 09/29/15
Date Appropriation Account

Contract # 36-22JUN15 9/8/2015

Commission	Order:	

# J. Louis Crum Corporation

Mechanical Contractor Since 1924

1312 Creasy Springs Road Columbia, Missouri 65202 (573) 443-2488

Boone County Commission

Boone County Jail

Heating Air Conditioning Plumbing Commercial Refrigeration FAX: (573) 443-3469

DATE: August 31, 2015

E: Expansion Tank for Water Heaters Purchase Order #20150000106

**ATTN: Melinda Bobbitt** 

# **PROPOSAL**

We purpose to furnish labor and material to furnish and install an expansion tank and modify the cold water supply to the water heaters (existing and new) in accordance to AO Smith Water Heater manufacturer's Warranty Notification Letter dated 8/25/2015 and attached. This will involve adding a new ½" tie-in domestic water pipe connecting all the water heaters together to be protected by the expansion tank.

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ioung or.	
Amtrol ST-30VC ASME Expansion Tank	1,644.30
3/4" Copper Type L @ \$2.26/LF	90.40
3/4" 90 Ell Copper @ \$1.30/ea.	13.00
3/4" MIP Copper @ \$2.03/ea.	4.06
3/4" 45 FTG. Copper @ \$1.80/ea.	3.60
3/4" Copper coupling @0.85/ea.	0.85
3/4" Unions @ \$7.40/ea.	7.40
3/4" Ball Valves @\$21.65/ea.	43.30
Hangers @\$5.79/ea.	34.74
Reducing Tees 1 ½" X ¾"@\$10.89/ea.	<u>21.78</u>
	Amtrol ST-30VC ASME Expansion Tank  3/4" Copper Type L @ \$2.26/LF  3/4" 90 Ell Copper @ \$1.30/ea.  3/4" MIP Copper @ \$2.03/ea.  3/4" 45 FTG. Copper @ \$1.80/ea.  3/4" Copper coupling @0.85/ea.  3/4" Unions @ \$7.40/ea.  3/4" Ball Valves @\$21.65/ea.  Hangers @\$5.79/ea.

Material Subtotal \$1,863.43

Insulation Contractor \$200.00

Sub Total \$2,063.43

Operating and Profit @ 15% 309.52

MATERIAL & INSULATION TOTAL \$2,372.95

LABOR 12.00 hours @ \$84.00/hour 1,008.00

TOTAL.....\$3,380.95

Please let me know of any questions.

STEVE W. SHUFELBERGER Steve Kl. Shukelleze

Commission Order:	
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# **Warranty Notification Letter**

Date: 8/25/2015

Address: Boone County Jail 2121 County dr Columbia MO 65202

Model Number(s): BTP 740

Serial number(s): 1530M000009

Dear valued A.O. Smith customer:

Thank you for choosing A.O. Smith, we sincerely appreciate your business. We have received a completed startup form from our service representative for the above referenced job. During the startup procedure, our service representative noted the following discrepancies.

 No thermal expansion protection, a properly sized, charged, and installed thermal expansion tank is required.

The above discrepancies are preventing the heater's warranty from being activated. An approved startup must be completed/received to activate the heater's warranty. Any operational issues or damages to the heater as a result of operating without an approved startup may result in a no warranty situation. Once the above discrepancies have been clarified or corrected please provide documentation of corrections to the Startup Department. The documentation may be faxed to 615-792-2121 or emailed to <a href="mailto:bmoma@hotwater.com">bmoma@hotwater.com</a>. Please provide any required documentation of corrections within a 30 day period from the receipt of this letter in order to activate warranty.

We appreciate your help ensuring the product purchased from our company provides many years of satisfactory service. If you have any questions you may call our Startup Department at 800-527-1953 ext. 5134 or 615 510 5134.

Sincerely, The Startup Department

Contract # 36-22JUN15 9/8/2015

# **CERTIFIED COPY OF ORDER**

STATE OF MISSOURI

September Session of the July Adjourned

Term. 20 15

**County of Boone** 

In the County Commission of said county, on the

29th

day of

September

20 15

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

Now on this day the County Commission of the County of Boone does hereby award bid 55-03SEP15 – Radio Tower Design, Engineering and Fabrication Services for Battle School Project to Sabre Communications Corporation of Sioux City, Iowa.

The terms of the bid 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 29th day of September, 2015.

ATTEST:

Wendy S. Noren

Clerk of the County Commission

Daniel K. Atwill

Presiding Commissioner

Karen M. Miller

District I Commissioner

lanet 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:

September 18, 2015

RE:

Bid Award Recommendation: 55-03SEP15 - Radio Tower Design,

Engineering and Fabrication Services for Battle School Project

Request for Bid 55-03SEP15 – Radio Tower Design, Engineering and Fabrication Services for Battle School closed on September 3, 2015. Three bids were received. Dave Dunford, our Radio Consultant, recommends award to Sabre Communications Corporation of Sioux City, Iowa for offering the best bid for Boone County. The low bid offered by EEI was non-responsive due to their bid submittal missing the performance calculations, technical drawings and any foundation plan or design criteria required in the bid specifications.

Contract award is \$56,106 and will be paid from department 2704 – Joint Communications Radio Network, account 91300 – Machinery & Equipment. \$321,000 was budgeted for the entire Battle School radio project.

ATT: Bid Tab

cc:

Bid File

Karen Miller, Commission
Dave Dunford, Radio Consultant

Patricia Schreiner, Joint Communications

# RFB 55-03SEP15 - RADIO TOWER DESIGN, ENGINEERING, AND FABRICATION

BID TABULATION SECTION 4.00 - PRICING		Sabre Industries, Inc.	Wilbur L. Anderson dba Western Towers	EEI Acquisition Corporation, dba Engineered Endeavors
ltem #	DESCRIPTION	Lump Sum	Lump Sum	Lump Sum
4.01	Radio tower- designed, engineered, and fabricated per bid specifications	\$56,106.00	\$81,169.00	\$50,995.00
	Shipping	included	included	\$3,480.00
	Sub-Total	\$56,106.00	\$86,149.00	\$54,475.00
4.02	Proposed cost for additional low profile platform as described in section 5.06. (will not be awarded)	\$2,852.00	\$4,000.00	\$4,680.00
	Delivery	6-8 weeks	8 weeks	45 days
	Sub-Contractors	n/a	Keystone-CHM Industries	none bid submittal

bid submittal
missing the
performance
calculations,
technical drawings
and any foundation
plan or design
criteria required in
the bid
specifications.

NO BIDS

BT SERVICES
STI TECHNOLOGY SOLUTIONS

Commission Order # 452-2015

## PURCHASE AGREEMENT FOR

# Radio Tower Design, Engineering and Fabrication Services

THIS AGREEMENT dated the 29th day of September 2015 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and Sabre Communications Corporation, 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 one (1) Radio Tower designed, engineered and fabricated per Request for Bid number 55-03SEP15, including Addenda #1 and #2; and the Contractor's bid response dated September 1, 2015, executed by Mark E. Gothier 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 contract file for this bid if not attached. In the event of conflict between any of the foregoing documents this Purchase Agreement, the Request for Bid and any applicable addenda shall prevail and control over the Contractor's bid response.
- 2. **Purchase** The County agrees to purchase from the Vendor and the Vendor agrees to supply the County with one (1) Radio Tower designed, engineered and fabricated to RFB 55-03SEP15 specifications for a total cost of **Fifty Six Thousand**, **One Hundred Six Dollars and Zero Cents** (\$56,106.00).
- 4. **Delivery** Vendor agrees to deliver within eight (8) weeks after receipt of order and *notification from Boone County*, one complete Radio Tower referenced herein, pre-packaged and shipped on flatbed truck to erection site at rear of 2600 Battle Avenue, Columbia, Missouri 65202, following notification by County of completion of foundation construction. Vendor shall deliver anchor bolts and anchor bolt templates in advance of tower steel to the erection site at rear of 2600 Battle Avenue, Columbia, MO 65202.
- 5. **Billing and Payment** Invoice shall be addressed to Boone County Joint Communications, Attn: Patricia Schreiner, and shall reference RFB 55-03SEP15. Invoice may only include the price 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.
- 6. **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.
- 7. **Entire Agreement** This agreement constitutes the entire agreement between the parties and supersedes any prior negotiations, written or verbal, and any other bid or bid specification or contractual agreement. This agreement may only be amended by a signed writing executed with the same formality as this agreement.
- 8. *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.

SABRE COMMUNICATION CORPORATION	BOONE COUNTY, MISSOURI
by Mike Coghlan title V.P. Sales & Marketing	by: Boone County Combission  Daniel K. Atwill Presiding Commissioner
ADDROVED AS TO FORM.	ATTECT.

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.)

Wendy S. Noren, County Clerk

Wendy S. Noren, County Clerk

Signature Date 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.
- Prices must be as stated in units of quantity specified, and must be firm. Bids qualified by escalator clauses may not be considered unless specified in the bid specifications.
- 12. No bid transmitted by fax machine or e-mail will be accepted.
- 13. The County of Boone, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is accepted by the County.
- 14. The County reserves the right to award to one or multiple respondents. The County also reserves the right to not award any item or group of items if the services can be obtained from a state or other governmental entities contract under more favorable terms.
- 15. The County, from time to time, uses federal grant funds for the procurement of goods and services. Accordingly, the provider of goods and/or services shall comply with federal laws, rules and regulations applicable to the funds used by the County for said procurement, and contract clauses required by the federal government in such circumstances are incorporated herein by reference. These clauses can generally be found in the Federal Transit Administration's Best Practices Procurement Manual Appendix A. Any questions regarding the applicability of federal clauses to a particular bid should be directed to the Purchasing Department prior to bid opening.

- 16. In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.
- 17. Should an audit of Contractor's invoices during the term of the Agreement, and any renewals thereof, indicate that the County has remitted payment on invoices that constitute an over-charging to the County above the pricing terms agreed to herein, the Contractor shall issue a refund check to the County for any over-charges within 30-days of being notified of the same.
- 18. For all titled vehicles and equipment the dealer must use the actual delivery date to the County on all transfer documents including the Certificate of Origin (COO,) Manufacturer's Statement of Origin (MSO,) Bill of Sale (BOS,) and Application for Title.
- 19. **Equipment and serial and model numbers -** The contractor is strongly encouraged to include equipment serial and model numbers for all amounts invoiced to the County. If equipment serial and model numbers are not provided on the face of the invoice, such information may be required by the County before issuing payment.

County of Boone			Purchasing Department
4. Response	Form		
Company Name:	Sabre Communication	ons Corporation	
Address:	7101 Southbridge D		
City/Zip:	Sioux City, IA 51111		
Phone Number:	(712) 224-1550	•	
E-Mail:	megothier@sabreing	dustries.com	
Fax Number:	(712) 279-0814		
Federal Tax I.D.	42-1078988		
(X) Corporation			
( ) Partnership - Nar			
<ul><li>( ) Individual/Proprie</li><li>( ) Other (Specify)</li></ul>	etorship – Individual Nar	me	
	_		
4.00 PRICING			
below shall include keeprofessional engineer, 4.01. Radio tower, 4.02. Proposed cost as described	ey erection drawings, fab, state of registry: Missoudesigned, engineered, and for additional low profil in section 5.06. For info	orication and design dr ari. State pricing as list d fabricated (lump sur le platform	<b>5</b> 0.400.00
only - will not		C. O. wa also	
4.03. Delivery of al	l items specified in this b	oid: 6-8 weeks	_ARO (after receipt of order)
	ng: If Vendor proposes be assigned in spaces be		for this work, list the names of the
Subcontractor Name/A	Address	Work Assi	gned
n/a		<del></del>	
		••••	
			<del></del>

- 4.05. **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 with a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property; 3.) are not presently indicted for or otherwise criminal or civilly charged by a government entity with commission of any of the offenses stated above and 4.) have not within a three year period preceding this bid had one or more public transactions terminated for cause or default.
- 4.06. **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.
- 4.07. 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):  Mach J. Hattu	Date:	9/1/2015
Print Name and Time of Authorized Representative:		
Mark F. Gothier, Government Projects Manager		

# 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: Sabre Communications Corporation
2.	Business Address: 7101 Southbridge Drive, Sioux City, IA 51111
3.	When Organized:
4.	When Incorporated: 5/27/1977  If not incorporated, state type of business (sole proprietor, partnership, or other)
5.	List federal tax identification number: 42-1078988
6.	Number of years engaged in business under present firm name: 38 years
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:
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. **See Attached**
12.	List of projects currently in progress:**See Attached**
	* Attach additional sheets as necessary *

**Boone County Purchasing** 



CustomerAlabama PowerAddress600 North 18th Street

Birmingham, AL 35203

Site Clark Mountain

Project Description Furnish and Install 185' Self-Supporting Tower

Performance Period March 2012 to July 2012

Contract Amount \$143,416.00

CustomerBeaver CountyAddress351 14th Street

Ambridge, PA 15009

Site Hanover Township

Project Description Furnish and Install 150' Self-Supporting Tower

Performance Period February 2011 to January 2012

Contract Amount \$36,301.00

**Customer** Blanco County

Address 101 East Peach Street

Johnson City, TX 78636

Site Church Tank, Round Mountain

Project Description Furnish and Install (2) 300' Self-Supporting Towers

Performance Period November 2011 to April 2012

Contract Amount \$283,751.00

CustomerBurke CountyAddress200 Avery Avenue

Morganton, NC 28656

New Emergency Communications Center

Project Description Furnish and Install 150' Extendable to 200' Self-Supporting

Tower

Performance Period September 2013 to February 2014

**Contract Amount** \$205,405.00

Site

**Customer** Chesapeake Operating, Inc.

Address 6100 North Western

Oklahoma City, OK 73118

Site Various, Texas, Oklahoma

Project Description Furnish and Install (73) Self-Supporting Towers, (5) Guyed

Towers

Performance Period March 2007 to July 2014

**Contract Amount** \$3,582,119.00



Customer **Address** 

City of Arvada 8101 Ralston Road

Arvada, CO 80002

Site

Dover Way & W. 58th

**Project Description** 

Furnish and Install 100' Ext 120' Self-Supporting Tower,

Site Work, A&L Installation, Tower Demolition

**Performance Period** 

June 2013 to March 2014 \$138,912.00

**Contract Amount** 

Customer Address

City of San Antonio 114 W. Commerce Street San Antonio, TX 78205

Site

South Frio Street

**Project Description** 

Furnish and Install 500' Self-Supporting Tower, Equipment

Shelter, Compound, Fence, Electrical, Generator,

Antennas & Lines and Tower Demolition

**Performance Period** 

July 2011 to June 2014

**Contract Amount** 

\$1,438,411.00

Customer Address

Clinton County

100 East State Street St. Johns, MI 48879

Site

Southwest Tower

**Project Description** Performance Period Furnish and Install 300' Self-Supporting Tower

June 2011 to February 2012

**Contract Amount** 

\$335,218.00

Customer

**CN Rail Montreal** 

Address 17641 S. Ashland Avenue

Homewood, IL 60430

Site

Various

**Project Description** 

Furnish and Install (45) Self-Supporting Towers, (3)

Monopoles

**Performance Period** 

June 2009 to April 2014

**Contract Amount** 

\$3,736,223.00

Customer

**Fallon County** 

Address

10 Fallon Avenue West

Baker, MT 59313

Site

Big Sheep Mtn., Beaver Hill, N. Repeater, Dispatch, S.

Repeater, Markuson

**Project Description** 

Furnish and Install (6) Self-Supporting Towers

**Performance Period** 

September 2012 to May 2013

**Contract Amount** 

\$742,740.00



Customer Address Forest County 526 Elm Street

Tionesta, PA 16353

Site

Forest County

**Project Description** 

Furnish and Install 280' Self-Supporting Tower

Performance Period

October 2012 to November 2013

**Contract Amount** 

\$228,681.00

Customer

Floresville Electric Light and Power

Address

1400 Fourth Street Floresville, TX 78114

Site

Sutherland Springs, Floresville, Eagle Creek Substation, TX

**Project Description** 

Furnish and Install (2) 300' Self-Supporting Towers,

(2) Equipment Shelters with Generators

**Performance Period** 

June 2009 to September 2009 November 2013 to April 2014

Contract Amount

\$732,249.00

Customer Address Geauga County 12518 Merritt Road Chardon, OH 44024

Site

Troy, Chargin

**Project Description** 

Furnish and Install (2) 300' Self-Supporting Towers. (2)

**Equipment Shelters** 

Performance Period

October 2010 to March 2012

**Contract Amount** 

\$710,627.00

Customer Address Grand River Dam Authority 226 W. Dwain Willis Avenue

Vinita, OK 74301

Site

Saline Creek Substation

Project Description

Furnish and Install 220' Self-Supporting Tower

Performance Period July 2014 to August 2014

Contract Amount

\$74,776.00

Customer Address Jefferson Parish Emergency Operations

910 3<sup>rd</sup> Street

Gretna, LA 70054

Site

West Bank, LA

**Project Description** 

Furnish and Install 300' Self-Supporting Tower, Equipment

Shelter, Compound, Electrical, Tower Dismantle

Performance Period

February 2013 to April 2014

**Contract Amount** 

\$1,208,954.00



Customer Address Jefferson County 911 301 Market Street

Steubenville, OH 43952

Site

Dillonvale

Project Description Performance Period Contract Amount Furnish and Install 300' Self-Supporting Tower

May 2014 to October 2014

\$201,799.00

Customer Address Johnston County Public Utilities

PO Box 2263

Site

Smithfield, NC Huntley Drive

**Project Description** 

Furnish and Install 120' Self-Supporting Tower, A&L

Installation

Performance Period

March 2013 to June 2013

**Contract Amount** 

\$48,313.00

Customer Address Lincoln Electric 2620 Fairfield Street

Lincoln, NE 68501

Site

Lincoln

Project Description

Furnish and Install 400' Self-Supporting Tower

Performance Period

February 2013 to June 2013

**Contract Amount** 

\$339,968.00

Customer Address Management and Engineering Technologies Int'l, Inc.

8600 Boeing Drive

El Paso, TX 79925

Sites

Texas, Oregon, Idaho, Georgia, New Mexico, Arizona.

Illinois

**Project Description** 

Furnish and Install (22) Self-Supporting Towers and (25)

**Guyed Towers** 

Performance Period Contract Amount

May 2008 to September 2013

\$2,960,881.00

Customer

Address

Northern Natural Gas 8101 Birchwood Court

Johnston, IA 50131

Site

Homer, NE

**Project Description Performance Period** 

Furnish and Install 50' Free-Standing Tower

ce Period July 2014 to December 2014

Contract Amount \$18,913.00



Customer Address Pipestone County P.O. Box 220

Pipestone, MN 56164

Site

Pipestone Tower

Project Description Performance Period Furnish and Install 180' Self-Supporting Tower October 2012 to January 2013

Contract Amount

\$81,511.00

Customer Address Southside Electric Services 2000 West Virginia Avenue

Crewe, VA 23930

Sites

Brunswick, Sycamore, Wellville Sub, Martin, Briery, Lake

Chesdin

Project Description
Performance Period

Furnish and Install (6) Self-Supporting Towers

July 2014 to December 2014

**Contract Amount** 

\$268,791.00

Customer Address South Texas Electric Cooperative

2849 FM 447

Nursery, TX 77976

Sites

San Miguel, Lenz, Berclair, Beeville, Sam Rayburn, Goliad,

Peggy, Midway

**Project Description** 

Furnish and Install (2) Self-Supporting Towers, Antenna

and Line Installation @ (6) Sites

Performance Period Contract Amount

March 2014 to September 2014

\$609,993.00

Customer Address State of Missouri

3525 North Belt Highway St. Joseph, MO 65102

Site

MSHP Troop H

**Project Description** 

Furnish and Install 320' Self-Supporting Tower, Site Work,

Antennas and Lines, Tower Demolition

Performance Period Contract Amount April 2012 to October 2012

\$253,590.00

Customer Address Sweetgrass County 115 W. 5<sup>th</sup> Avenue Big Timber, MT 59011

Site

County Court House

Project Description

Furnish and Install 100' Self-Supporting Tower

Performance Period

August 2011 to February 2012

**Contract Amount** 

\$81,487.00



Customer **Address** 

Tioga County 118 Main Street

Wellsboro, PA 16901

Site

Wellsboro

**Project Description** 

Furnish and Offload 180' Self-Supporting Tower, Furnish

and Offload Equipment Shelter

**Performance Period** 

**Contract Amount** 

March 2014 to October 2014 \$114,876.00

Customer

Wapello County

**Address** 

101 West 4<sup>th</sup> Street Ottumwa, IA 52501

Site

Wapello County

**Project Description Performance Period**  Supply and Install 250' Self-Supporting Tower

November 2012 to November 2013

**Contract Amount** 

\$300,838.00

Customer **Address** 

Western Farmers Electric Cooperative

701 N.E. 7<sup>th</sup> Street

Anadarko, OK 73005

Site

Beckham County, OK

**Project Description** 

Furnish and Install 80' Self-Supporting Tower

Performance Period

August 2014 to December 2014

**Contract Amount** 

\$39,227.00



# **Bidder's Qualifications Item #12 (Current Projects)**

Sabre Communications has been designing, manufacturing and installing communications towers since 1977. We manufacture approximately 3,000 towers per year, making Sabre the largest tower manufacturer in the United States. We currently have 109 self-supporting towers on our production schedule.

Company ID Number: 128253

## THE E-VERIFY PROCESSY FOR EMPLOYMENT VERIFICATION

#### DALGRATERBORU TO MUCHAROMEM

#### ARTICLE I

#### PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Social Security Administration (SSA), the Department of Homeland Security (DHS) and <u>Sabre Towers and Poles</u> (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). E-Verify is a program in which the employment eligibility of all newly hired employees will be confirmed after the Employment Eligibility Verification Form (Form I-9) has been completed.

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).

#### ARTICLE II

#### **FUNCTIONS TO BE PERFORMED**

#### A. RESPONSIBILITIES OF THE SSA

- 1. Upon completion of the Form I-9 by the employee and the Employer, and provided the Employer complies with the requirements of this MOU, SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all newly hired employees and the employment authorization of U.S. citizens.
- 2. The 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. The 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. The 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 the 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).
- 4. SSA agrees to establish a means of automated verification that is designed (in conjunction with DHS's automated system if necessary) to provide confirmation or tentative nonconfirmation of U.S. citizens' employment eligibility and accuracy of SSA records for both citizens and aliens within 3 Federal Government work days of the initial inquiry.

Company ID Number: 128253

INFORMATION REQUIRED FOR THE E-VERIFY PROGRAM					
Information relating to your Comp	pany:				
Company Name:	Sabre Towers and Poles				
Company Facility Address:	2101 Murray Street Sioux City, IA 51111				
Company Alternate Address:					
County or Parish:	WOODBURY				
Employer Identification Number:	421078988				
North American Industry Classification Systems Code:	332				
Parent Company:	Sabre Industries, Inc.				
Number of Employees:	100 to 499 Number of Sites Verified for: 2				
Are you verifying for more than I	site? If yes, please provide the number of sites verified for in each State.				
• IOWA	2 site(s)				

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name: Telephone Number: E-mail Address:	Janet Fuller (712) 224 - 1588 jfuller@sabrecom.com	Fax Number:	(712) 277 - 4134
Name: Telephone Number: E-mail Address:	Paula Peterson (712) 224 - 1520 ppeterson@sabrecom.com	Fax Number:	(712) 277 - 4134
Name: Telephone Number: E-mail Address;	Erin Baird (712) 224 - 1584 ebaird@sabrecom.com	Fax Number:	(712) 277 - 4134

# WORK AUTHORIZATION CERTIFICATION PURSUANT TO 285.530 RSMo (FOR ALL AGREEMENTS IN EXCESS OF \$5,000.00)

County of Woodbury )
State of lowa )
My name isMark E. Gothier I am an authorized agent ofSabre Communications Corporation(Bidder). This business is enrolled and participates in a federal work authorization
program for all employees working in connection with services provided to the County. This business
does not knowingly employ any person that is an unauthorized alien in connection with the services being
provided. Documentation of participation in a federal work authorization program is attached hereto.
Furthermore, all subcontractors working on this contract shall affirmatively state in writing in
their contracts that they are not in violation of Section 285.530.1, shall not thereafter be in violation and
submit a sworn affidavit under penalty of perjury that all employees are lawfully present in the United
States.
Affiant Date  Mark E. Gothier  Printed Name
Subscribed and sworn to before me this 1 day of September, 2015.  Notary Public
JALYNN K MARTINSON Commission Number 788665 My Commission Expires February 24, 2018

## (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, <u>Federal Register</u> (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.

Mark E. Gothier, Government Projects Manager		
Name and Title of Authorized Representative		
March & Lette	9/1/2015	
Signature	Date	



# **BOONE COUNTY, MISSOURI**

# Request for Bid #: 55-03SEP15 – Radio Tower Design, Engineering and Fabrication Services for Battle School Project

# ADDENDUM #1 - Issued August 21, 2015

This addendum is issued 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 Bidder's response.

Specifications for the above noted Request for Bid and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect.

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

# 1) Who is proving installation of the tower?

**Response:** Tower foundation construction and installation will be provided by others on later bids.

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

BIDDER has examined **Addendum** #1 to Request for Bid# 55-03SEP05 – Radio Tower Design, Engineering and Fabrication Services for Battle School Project, for Boone County Purchasing, receipt of which is hereby acknowledged:

Company Name:	Sabre Commun	ications Corporation			
Address:	7101 Southbridge	7101 Southbridge Drive, Sioux City, IA 51111			
Phone Number: (712	) 224-1550	Fax Number: (712) 279-0814			
		_			
Address: 7101 Southbridge Drive, Sioux City, IA 51111  Thone Number: (712) 224-1550 Fax Number: (712) 279-0814  Thomail: megothier@sabreindustries.com  The suthorized Representative Signature: Mark E. Gothier  The suthorized Representative Printed Name: Mark E. Gothier					



# BOONE COUNTY, MISSOURI

# Request for Bid #: 55-03SEP15 – Radio Tower Design, Engineering and Fabrication Services for Battle School Project

# ADDENDUM #2 - Issued August 27, 2015

This addendum is issued and is hereby incorporated into and made a part of the Request for Bid Documents. Bidders are reminded that receipt of this addendum <u>should be acknowledged</u> and submitted with Bidder's response.

Specifications for the above noted Request for Bid and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect.

# Clarification and change to bid:

CHANGE line items 11 and 16 to part number 5960110

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

BIDDER has examined **Addendum #2** to Request for Bid# 55-03SEP05 – Radio Tower Design, Engineering and Fabrication Services for Battle School Project, for Boone County Purchasing, receipt of which is hereby acknowledged:

Company Name:	Sabre Communic	ations Corporation		
Address:	7101 Southbridg	e Drive, Sioux City, IA 51111		
Phone Number: <u>(712) 2</u>	24-1550	Fax Number: (712) 279-0814		
E-mail: _megothier@sabreindustries.com				
Authorized Representative Signature: Mach & Lattle Date: 9/1/2015				
Authorized Representat	ive Signature:////	Date: 9/1/2015		
Authorized Representative Printed Name: Mark E. Gothier				



September 1, 2015

BOONE COUNTY 613 E. Ash Street Columbia, MO 65201

Attn:

Melinda Bobbitt, CPPO, CPPB

Director of Purchasing

Dear Ms. Bobbitt:

As per the Request for Bid (RFB) #55-03SEP15, please find following our quotation for the Radio Tower Design, Engineering and Fabrications Services for Battle School project as specified.

Sabre Industries, Inc. is the parent company of Sabre Communications Corporation, CellXion, LLC and Midwest Underground Technology, Inc. (MUTI). Their combined operations include: Sabre Towers and Poles, Sabre Site Solutions, Sabre Tubular Structures, Sabre Government Systems, Sabre Building Systems by CellXion and Midwest Underground Technology. Sabre provides infrastructure products and services throughout the United States and Internationally. Sabre is capable of offering a single, turnkey infrastructure solution with both products and services. Established in 1977, Sabre builds approximately 3,000 towers per year — making Sabre the largest tower manufacturer in the United States.

We use a number of professional management tools which enable us to view any program adjustments that may arise and how it will affect the overall schedule. This project schedule will be shared with all parties involved with the project via weekly project status report submittals.

Our engineering design personnel at our Sioux City facility have the responsibility for fulfilling/accomplishing the tower requirements as defined by the design documents including engineering drawings, specifications, basis of design criteria and drawing clarifications. Accreditation and certifications for our Engineering department includes Professional Engineers licensed in all 50 states, Puerto Rico, District of Columbia and Guam. Professional tools include AutoCAD design and drafting software, Microsoft Project and Primavera scheduling software and Guymast tower design and analysis software.



Page 2

Engineering and manufacturing personnel perform the manufacturing activities for the tower which will be manufactured to customer designated requirements. Our Quality Control, receiving inspection, and production and management teams collaborate to ensure each structure is manufactured exactly to our drawings, on time and within budget. Sabre also requires a structured and detailed QA through monitored and schedules inspections to verify the work is completed in accordance with design and assure that both the quality and contractual requirements are met.

We at Sabre Communications Corporation feel that with our vast experience and with the assembled team of highly qualified employees and suppliers, we can provide Boone County with quality products that will meet your high expectations.

If you have any questions or require further information, please feel free to contact me at (800) 369-6690, ext. 11550.

Sincerely,

SABRE COMMUNICATIONS CORPORATION

Mark E. Gothier

Government Projects Manager

Enclosure: Per Above

MEG: rr



#### **DESCRIPTIVE OUTLINE**

Prepared for:

**BOONE COUNTY** 

613 E. Ash Street Columbia, MO 65201

Attn: Melinda Bobbitt

Reference:

Proposal No.: 16-2545-MEG-GOV

9/1/2015 Date:

Page 1 of 3

170' Monopole/Battle School, MO

Freight: Destination

#### SABRE MONOPOLE

Quantity of one (1) Sabre Monopole. The monopole has a steel height of 169' plus a 1' rotatable top hub mount for an overall height of 170'. The total height of this monopole includes the foundation projection.

The monopole will be eighteen-sided and tapered in design with a top diameter of 16" and a base diameter of 59.69".

The monopole will be 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.

#### **Revision G Parameters:**

- Structure Class III
- Exposure Category C
- Topographic Category 1

The monopole will be designed to support the following equipment:

	ANTENNA MODEL	RAD		DI TILL TION	TX. LINE		AZIMUTH		MO	
	NUMBER (QTY)	YES	NO	ELEVATION C.O.R.	SIZE & TYPE	FREQUENCY	TO NORTH	ANTENNA MOUNT	PROV YES	IDED NO
1	(6) 20" x 20" x 5" Panels		X	170'	(6) 1/2"	N/A	Unknown	12' LP Platform with Handrail with Rotatable Top Hub Mount	X	.,,
2	(1) ATC-GD1V40 Antenna		X	170' At Base	(2) 7/8"	N/A	Unknown	Same as above	X	
3	(3) DB222 Decibel Antenna's		X	170' At Base	(3) 7/8"	N/A	Unknown	Same as above	X	
6	(1) SP3-5.2 Antenna		X	170'	(1) 5/8"	6 GHz	0°	One (1) Pipe Mount (up to 6' Dish) with Collar Mount		X
7	(12) 5960110 Antenna's		X	155'	(12) 1 5/8"	N/A	Unknown	12' Low Profile Platform with Collar Mount		X
8	(3) Tower Top Amplifiers		X	155'	(3) 1 5/8"	N/A	Unknown	Same as above		X
9	(12) 5960110 Antenna's		X	140'	(12) 1 5/8"	N/A	Unknown	12' Low Profile Platform with Collar Mount		X
10	(3) Tower Top Amplifiers		X	140'	(3) 1 5/8"	N/A	Unknown	Same as above		X
11	(12) 5960110 Antenna's		X	125'	(12) 1 5/8"	N/A	Unknown	12' Low Profile Platform with Collar Mount		X
12	(3) Tower Top Amplifiers		X	125'	(3) 1 5/8"	N/A	Unknown	Same as above		X
13	(1) ATC-GD1V40 Antenna		Х	100' At Base	(2) 7/8"	N/A	Unknown	One (1) 3' Sidearm with Collar Mount	Х	
14	(1) ATC-GD1V40 Antenna		X	75' At Base	(2) 7/8"	N/A	Unknown	One (1) 3' Sidearm with Collar Mount	Х	
15	(3) DB224 Decibel Antenna's		X	20' At Base	(3) 1/2"	N/A	Unknown	Three (3) 3' Sidearms with Collar Mount	Х	

<sup>\*\*</sup>Refer to Notes section for definitions of Revision G parameters.



#### DESCRIPTIVE OUTLINE

Prepared for:

BOONE COUNTY

613 E. Ash Street

Columbia, MO 65201

Attn: Melinda Bobbitt

Proposal No.: 16-2545-MEG-GOV

9/1/2015

of 3 Page 2 170' Monopole/Battle School, MO

Reference: Freight:

Date:

**Destination** 

#### **MONOPOLE MATERIALS** ITEM I

Materials to be provided include:

Complete monopole steel and hardware

Anchor bolts and templates, (18) bolts 84" long

Step Bolts

12' LP Platform with handrail with rotatable top hub Mount at the 170' elevation

One (1) 3' sidearm with collar mount at the 100' elevation

One (1) 3' sidearm with collar mount at the 75' elevation

Three (3) 3' sidearms with collar mount at the 20' elevation

Eight (8) 6" x 12" access ports with J hooks (see notes)

Nine (9) 8" x 20" access ports with J hooks (see notes)

Four (4) 10.5" x 25.5" access ports (see notes)

200' safety climb without harness

P.E. certified profile drawings (see notes)

P.E. certified foundation design (see notes)

Final erection drawings

# MONOPOLE FREIGHT TO BOONE COUNTY, MISSOURI ANCHOR BOLT FREIGHT TO BOONE COUNTY, MISSOURI

#### **NOTES:**

Terms are Net 30 days after invoice.

#### Classification of Structure:

Class Three

Structures used primarily for essential communications such as: civil or national defense, emergency, rescue or other disaster operations, military and navigation facilities.

#### **Exposure Category:**

Exposure C

Open terrain with scattered obstructions having heights generally less than 30 feet. This category includes flat, open country, grasslands and shorelines in hurricane prone regions. Exposure C is the standard default for exposure categories.

# **Topographic Category:**

Category 1

No abrupt changes in general topography, e.g. flat or rolling, no wind speed-up consideration shall be required. Category one is the standard default for the topographic categories.

This quotation is based on ANSI/TIA-222-G and Customer provided specifications. Any information not provided by ANSI/TIA-222-G or the Customer has not been considered.

Foundation and anchor bolt designs are based strictly on ANSI/TIA-222-G.



# **DESCRIPTIVE OUTLINE**

Prepared for: BOONE COUNTY

Proposal No.: 16-2545-MEG-GOV

613 E. Ash Street

9/1/2015

Page 3 of 3

Columbia, MO 65201 Reference: Attn: Melinda Bobbitt Freight:

170' Monopole/Battle School, MO Destination

Dimensional information is preliminary only; it may change based on final engineering without altering the basic tower configuration.

Date:

All Sabre mounts are designed in accordance with antenna specifications.

Grounding is to be provided by others.

Cable type safety climbing device provided does not include harness.

Sabre's standard access port size is 6" x 12".

Four (4) access ports will be provided. Elevations and azimuths must be specified at the time of order.

Freight charges quoted are for provided materials only. Additional freight charges may be incurred with the order of additional items.

All antennas, transmission lines, jumpers, ground kits, hangers, and hardware are to be provided and installed by others.

All monopole materials will be hot dip galvanized as outlined in ASTM A-123.

The permit package includes a profile drawing of the structure with member sizes; descriptive notes; structural calculations; a table of supported antennas, mounts and feedlines; and a foundation sketch and calculations (if applicable).

Title, ownership, risk of loss, risk of material obsolescence and risk of material market value decline shall pass to the Customer upon invoicing or shipment to Customer, whichever occurs earlier in time.

Delivery will be approximately 6 to 8 weeks after receipt of approved order.



#### ONE (1) YEAR LIMITED WARRANTY

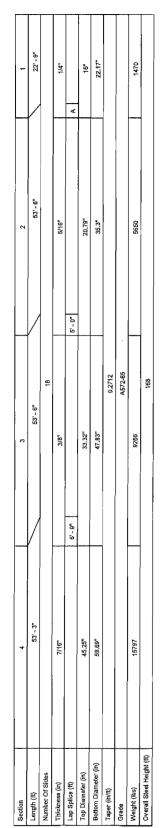
Sabre Communications Corporation (Sabre) warrants to Buyer that the products from a period of one (1) year will be free from defects of material and workmanship. This Warranty covers design, fabrication, foundations, erection and all other goods supplied with the original tower by Sabre, which are not specifically excluded in this Warranty. Certain items are not covered under this Warranty. These items include, but are not limited to: antennas, lines, and related ancillary equipment, lighting equipment, light bulbs, or other materials. In addition, Sabre does not warrant defects or failure caused by any of the following items, which include, but are not limited to: normal wear and tear, vandalism, faulty installation by Buyer or its employees or agents, failure due to winds and/or ice that exceed the Buyer's design requirements, anchor failure caused by electrolytic corrosion, flying objects, improper modifications or repair, lightning, flood, earthquake, vehicles, or animals. This Warranty will remain valid for the period set forth only if you do the following:

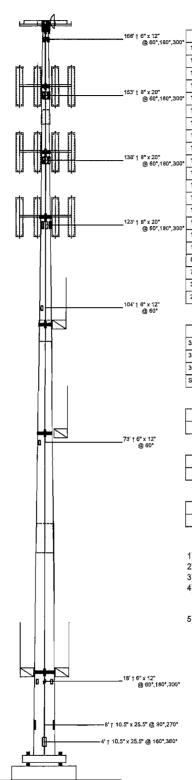
- a. Make adequate tower and site inspections at six-month intervals;
- b. Perform proper maintenance of the tower pursuant to industry standards;
- c. Maintain inspection/maintenance reports; and,
- d. Maintain load levels at or under design parameters.

If the tower is loaded with antennas, lines or appurtenances, which overstress the tower beyond its original design parameters, or if you fail to do required inspections and/or maintenance, then this Warranty shall be null and void, not merely voidable. In addition, Sabre retains the right, in the event of a claim under this Warranty, to inspect the tower and fully investigate all claims. In the event of a claim under this Warranty, which, after inspection and full investigation by Sabre, Sabre determines, in its sole discretion, to be covered by the Warranty, then Sabre's sole obligation under these Warranties will be limited to either, at Sabre's option and expense, repairing, furnishing and installing replacement of failed components at this site, first point of shipment for the products or parts thereof which Sabre reasonably determines do not conform with these warranties, and Buyer's exclusive remedy for breach of any such warranties will be enforcement of such obligation of Sabre. IN NO EVENT SHALL SABRE BE LIABLE FOR CONSEQUENTIAL DAMAGES, NOR SHALL SABRE'S LIABILITY ON ANY CLAIMS FOR DAMAGES ARISING OUT OF OR CONNECTED WITH THE SALES CONTRACT OR THE MANUFACTURE, SALE, DELIVERY OR USE OF PRODUCTS EXCEED THE PURCHASE PRICE OF THE PRODUCTS. ANY ACTION FOR BREACH OF WARRANTY MUST BE COMMENCED WITHING ONE (1) YEAR AFTER THE CAUSE OF ACTION ACCRUES.

#### DISCLAIMER OF OTHER WARRANTIES

THIS DOCUMENT IS A COMPLETE AND EXCLUSIVE STATEMENT OF THE WARRANTIES OFFERED BY THE SELLER. THERE ARE NO WARRANTIES BEYOND THOSE EXPRESSLY STATED IN THIS WRITING. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESSED OR IMPLIED.





#### **Designed Appurtenance Loading**

Elev	<u> </u>	Tx-Line
170	(1) ATC-GD1V40	(2) 7/8 <sup>u</sup>
170	(3) DB2226	(3) 7/8"
170	(1) SP3-5.2	(1) 5/8"
170	(6) 20" x 20" x 5" Junction Boxs	(6) 1/2"
169	L.P. Platform (Monopole Only) - 12' w/ Handrail	
168	(1) Dish Mount (Monopole Only) - Pipe Mount (up to 6' Dish)	
155	L.P. Platform (Monopole Only) - 12'	
155	(3) Tower Top Amplifiers	(3) 1 5/8*
155	(12) 5960110s	(12) 1 5/8"
140	L.P. Platform (Monopole Only) - 12'	
140	(3) Tower Top Amplifiers	(3) 1 5/8"
140	(12) 5960110s	(12) 1 5/8"
125	L.P. Platform (Monopole Only) - 12'	
125	(3) Tower Top Amplifiers	(3) 1 5/8"
125	(12) 5960110s	(12) 1 5/8*
111	(1) ATC-GD1V40	(2) 7/8*
100	3ft Sidearm	
86	(1) ATC-GD1V40	(2) 7/8"
75	3ft Sidearm	
31.62	(3) DB224s	(3) 1/2"
20	(3) 3ft Sidearms	
	170 170 170 169 168 155 155 155 140 140 125 125 111 100 86 75 31.62	170 (1) ATC-GD1V40 170 (3) DB2226 170 (1) SP3-5.2 170 (6) 20" x 20" x 5" Junction Boxe 189 L.P. Platform (Monopole Only) - 12' w/ Handrail 188 (1) Dish Mount (Monopole Only) - Pipe Mount (up to 6' Dish) 155 L.P. Platform (Monopole Only) - 12' 155 (3) Tower Top Amplifiers 155 (12) 5960110s 140 L.P. Platform (Monopole Only) - 12' 140 (3) Tower Top Amplifiers 140 (12) 5960110s 140 L.P. Pletform (Monopole Only) - 12' 145 L.P. Pletform (Monopole Only) - 12' 146 (3) Tower Top Amplifiers 147 (12) 5960110s 148 L.P. Pletform (Monopole Only) - 12' 149 (3) Tower Top Amplifiers 140 (12) 5960110s 155 (12) 5960110s 166 (1) ATC-GD1V40 175 3ft Sidearm 176 (3) DB224s

#### **Load Case Reactions**

Description	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
3s Gusted Wind	61.07	48.2	5977.96	15,67	10.74
3s Gustad Wind 0.9 Dead	45.77	48,21	5879,85	15.29	10.44
3s Gusted Wind&lce	104.09	12.53	1711,22	4.87	3.44
Service Loads	50.9	10.42	1289,93	3.45	2,34

#### **Base Plate Dimensions**

ſ	Shape	Shape Diameter		Bolt Circle	Bolt Oty	Bolt Diameter
Γ	Round	72.5*	2.25 <sup>u</sup>	66,75"	18	2,25°

#### **Anchor Bolt Dimensions**

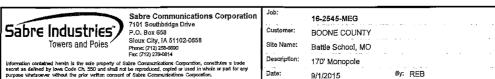
Length	Diameter	Hole Diameter	Weight	Туре	Finish
84"	2.25"	2.625"	2179.8	A615-75	Gaiv-18"

#### Material List

Display	Value
Α	3' - 3"

# Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- All dimensions are above ground level, unless curiefuse specified.
   Weights shown are estimates. Final weights may vary.
   The Monopole was designed for a basic wind speed of 90 mph with 0" of radial ice, and 40 mph with 1" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class III, Exposure Category C, Topographic Category 1.
- 5) Full Height Step Bolts



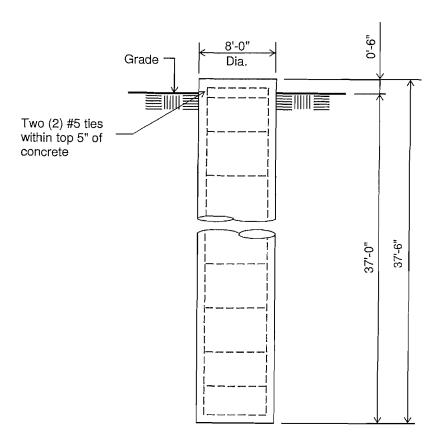


No.: 16-2545-MEG

Date: 9/1/15 By: BD

### <u>Customer: BOONE COUNTY</u> <u>Site: Battle School, MO</u>

170' Monopole at
90 mph Wind with no ice and 40 mph Wind with 1 in. Ice per ANSI/TIA-222-G.
Antenna Loading per Page 1



#### **ELEVATION VIEW**

(69.81 Cu. Yds. each) (1 REQUIRED; NOT TO SCALE)

#### Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4000 PSI, in accordance with ACI 318-05.
- 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. G15046, dated July 20, 2015
- 6). See the geotechnical report for drilled pier installation requirements, if specified.
- 7). The foundation is based on the following factored loads:
  Moment (kip-ft) = 5977.96
  Axial (kips) = 61.07
  Shear (kips) = 48.2

	Rebar Schedule per Pier
Pier	(36) #10 vertical rebar w/#5 ties, two within
1 161	top 5" of pier then 7" C/C

8). This is a design drawing only. Please see final construction drawings for all installation details.

Information contained herein is the sole property of Sabre Towers & Poles, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Towers & Poles.

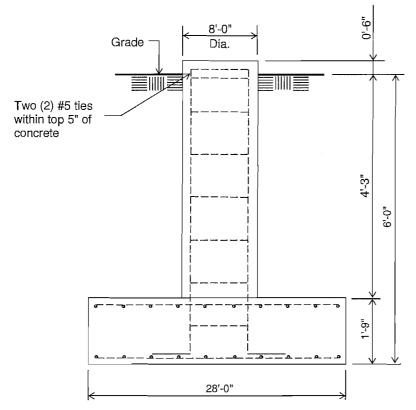


No.: 16-2545-MEG

Date: 9/1/15 By: BD

# Customer: BOONE COUNTY Site: Battle School, MO

170' Monopole at 90 mph Wind with no ice and 40 mph Wind with 1 in, Ice per ANSI/TIA-222-G. Antenna Loading per Page 1



### **ELEVATION VIEW**

(59.66 Cu. Yds.) (1 REQUIRED; NOT TO SCALE)

#### Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4500 PSI, in accordance with ACI 318-05
- 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 GTL, Project No. G15046, dated July 20, 2015
- 6). See the geotechnical report for compaction requirements, if specified.
- 7). The foundation is based on the following factored loads:
  Moment (kip-ft) = 5977.96
  Axial (kips) = 61.07
  Shear (kips) = 48.2

	Rebar Schedule per Pad and Pier				
	(38) #9 vertical rebar w/ hooks at bottom w/				
Pier	#5 ties, two within top 5" of top of pier then				
	12" C/C				
Pad	(44) #9 horizontal rebar evenly spaced each				
Pau	way top and bottom (176 total)				

- 8). This is a design drawing only. Please see final construction drawings for all installation details.
- 9). 4.25 ft of soil cover is required over the entire area of the foundation slab.

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# 16-2545-MEG.txt

(USA) - Monopole Spatial Analysis (c)2015 Guymast Inc.

Tel:(416)736-7453 Fax:(416)736-4372 Web:www.guymast.com

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Sabre Towers and Poles on: 1 sep 2015 at: 8:42:18

170' Monopole / Battle School, MO

\* All pole diameters shown on the following pages are across corners. See profile drawing for widths across flats.

# POLE GEOMETRY

ELEV ft		No.of (	DUTSIDE DIAM in	-NESS	RESIST ♦*Pn kip	<b>∻</b> *Mn	TYPE	OVERL LENGTH ft	AP RATIO
169.0	**********		16.25	0.250	928.5	298.5			
	Α	18		0.250	1239.8	534.2			
	A/B	18	21,61	0.250	1239.8	534.2	SLIP	3.25	1.80
146.2	ŕ				1574.4		022	3.23	2100
	В	18			1574.4				
101.0					2429.6				
	B/C	18			2429.6	-	SLIP	5.00	1.73
96.0	**********				3033.7				
	С	18			3812.9				
54.2	*********	*****			3812.9				
	C/D	18	47.81				SLIP	6.75	1.72
47.5			47.81	0.438	4731.3	4533.1			
	D	18			5566.9				
1.0	******				*******	*****			

# POLE ASSEMBLY

SECTION NAME	BASE ELEV ft	NUMBER	TYPE	AT BASE DIAM in	OF SECTION STRENGTH ksi	THREADS IN SHEAR PLANE	CALC BASE ELEV ft
A B C D	146.250 96.000 47.500 1.000	0 0 0	A325 A325 A325 A325	0.00 0.00 0.00 0.00	92.0 92.0 92.0 92.0	0 0 0 0	146.250 96.000 47.500 1.000

#### POLE SECTIONS

SECTION NAME	No.of SIDES	LENGTH	OUTSIDE.DI BOT in	AMETER TOP in	THICK- NESS in	MAT- ERIAL ID	FLANG BOT	GE.ID TOP	FLANGE GROUF BOT	
A B C D	18 18 18 18	22.75 53.50 53.50 53.25		16.25 21.11 33.83 45.94	0.250 0.312 0.375 0.438	1 2 3 4	0 0 0	0 0 0	0 0 0	0 0 0

<sup>\* -</sup> Diameter of circumscribed circle

MATERIAL TYPES

#### 16-2545-MEG.txt

TYPE NO OF ORIENT HEIGHT WIDTH NO ELEM. .THICKNESS. IRREGULARITY TYPE OF SHAPE WEB FLANGE .PROJECTION. % OF ORIENT AREA in in in in deg & deg 0.25 0.31 0.38 0.44 0.250 0.312 0.375 0.438 22.51 35.84 48.56 60.61 0.00 0.00 0.00 0.00 PL PL PL PL 0.0 0.0 0.0 0.0 1 1 1 1 0.250 1 2 3 4 0.312 0.375 0.438 0.0

& - With respect to vertical

#### MATERIAL PROPERTIES

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	STRI Fu ksi	ENGTH Fy ksi	THERMAL COEFFICIENT /deg
1 2 3	29000.0 29000.0 29000.0	490.0 490.0 490.0	80.0 80.0 80.0	65.0 65.0 65.0	0.00001170 0.00001170 0.00001170
4	29000.0	490.0	80.0	65.0	0.00001170

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

LOADING CONDITION A

90 mph wind with no ice. Wind Azimuth: 00

### LOADS ON POLE

LOAD TYPE	ELEV ft	APPLYLC RADIUS ft	ADAT AZI	LOAD AZI	HORIZ Kip	DOWN kip	VERTICAL ft-kip	ENTS TORSNAL ft-kip
	169.000 169.000 168.000 167.000 167.000 154.000 154.000 139.000 124.000 110.000 110.000 99.000 85.000 74.000 30.620 30.620 19.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			0.0000 2.9043 0.0000 1.4483 0.0000 0.0056 0.0000 8.5458 0.0000 8.1674 0.0000 0.5590 0.2718 0.0000 0.5298 0.2558 0.0000 0.5805 0.3079	0.1860 0.8912 1.0282 2.1973 0.1303 0.2904 2.8829 3.9504 2.6021 3.9504 0.1426 0.2966 0.4116 0.1102 0.2966 0.5760 0.5760 0.0441 0.2383 0.9360	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0000000000000000	169.000 149.500 149.500 146.250 131.167 131.167 116.083 110.000 101.000 96.000 96.000 82.083 82.083	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0		0.0522 0.0620 0.0656 0.0656 0.0706 0.0706 0.0808 0.0902 0.0902 0.0960 0.0960 0.0993 0.1057	0.0540 0.0653 0.1545 0.0950 0.0950 0.1114 0.1278 0.3024 0.3024 0.1761 0.1761 0.1942	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

<sup>\*</sup> Only 3 condition(s) shown in full \* Some concentrated wind loads may have been derived from full-scale wind tunnel testing

D D D D D D D D D D D D D D D D D D D	68.167 68.167 54.250 54.250 47.500 47.500 47.500 25.875 24.250 24.250 24.250 12.625 12.625 1.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0 180.0		16-25 0.1057 0.1108 0.1108 0.1134 0.1129 0.1129 0.1124 0.1124 0.1080 0.1083 0.1083	45-MEG.tx 0.1942 0.2124 0.2124 0.4855 0.4855 0.2736 0.2913 0.2913 0.3091 0.3268	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
TYPE STD	ANTENNA ELEV ft 169.0	AZI 0.0	ATTACHI RAD ft 1.4	MENT AZI 0.0	AXIAL kip 0.62	ANTENNA SHEAR kip 0.00		TORSION ft-kip
		======	======	=			========	

90 mph wind with no ice. Wind Azimuth: 0♦

# LOADS ON POLE

LOAD TYPE	ELEV ft	APPLYLC RADIUS ft	AZI AZI	LOAD AZI	HORIZ kip	ES DOWN kip	VERTICAL ft-kip	ENTS TORSNAL ft-kip
	169.000 169.000 168.000 168.000 167.000 154.000 139.000 139.000 124.000 110.000 110.000 99.000 85.000 85.000 30.620 19.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			0.0000 2.9043 0.0000 1.4483 0.0056 0.0000 8.5458 0.0000 8.3646 0.0000 8.1674 0.0000 0.5590 0.2718 0.0000 0.5298 0.2558 0.0000 0.5805 0.3079	0.1395 0.6684 0.7711 1.6480 0.0977 0.2178 2.1622 2.9628 1.9516 2.9628 0.1069 0.2225 0.3087 0.0826 0.2225 0.4320 0.0331 0.1787 0.7020	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	169.000 149.500 149.500 146.250 131.167 131.167 116.083 101.000 96.000 96.000 82.083 82.083 68.167 54.250 54.250 47.500 47.500 47.500 47.500 47.500 47.500 47.500 47.500 47.500 47.500	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0		0.0522 0.0620 0.0656 0.0706 0.0706 0.0808 0.0808 0.0902 0.0960 0.0960 0.0993 0.1057 0.1108 0.1108 0.1134 0.1134 0.1129 0.1129 0.1124 0.1124	0.0405 0.0489 0.1159 0.0712 0.0712 0.0835 0.0958 0.0958 0.2268 0.1320 0.1457 0.1457 0.1593 0.1593 0.3641 0.2052 0.2052 0.2185 0.2318	0.0000 0.0000	0.0000 0.0000

	12.625 12.625 1.000 NA LOADING		180.0 180.0 180.0	0.0 0.0 0.0	16-25 0.1080 0.1083 0.1083	45-MEG.txt 0.2318 0.2451 0.2451	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000
TYPE	ANTENNA. ELEV ft	AZI	ATTACHI RAD ft	MENT AZI	AXIAL kip			orsion ft-kip
STD	169.0	0.0	1.4	0.0	0.62	0.00	0.06	0.00
LOADI	NG CONDITI	ON Y =						
	ON POLE							
LOAD TYPE	ELEV ft	APPLYLG RADIUS ft	ADAT AZI	LOAD AZI	FOR HORIZ kip	CES DOWN kip	MOME VERTICAL ft-kip	ENTS TORSNAL ft-kip
	169.000 169.000 168.000 167.000 167.000 154.000 139.000 139.000 124.000 110.000 110.000 99.000 85.000 85.000 74.000 30.620 19.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0000 1.3841 0.0000 0.6909 0.0000 0.0006 0.0000 1.8751 0.0000 1.7726 0.0000 0.4388 0.0721 0.0000 0.4068 0.0663 0.0663 0.0000 0.3239 0.0716	0.6567 2.3816 1.0282 3.0750 0.1303 0.3139 2.8829 8.8764 2.6021 8.8265 2.3218 8.7716 0.1426 0.8611 0.6909 0.1102 0.8469 0.8474 0.0441 1.0001 1.6494	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	169.000 162.500 162.500 156.000 156.000 149.500 149.500 146.250 131.167 131.167 131.16.083 116.083 110.000 96.000 96.000 82.083 82.083 68.167 68.167 54.250 47.500 47.500 1.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0		0.0139 0.0139 0.0148 0.0148 0.0157 0.0157 0.0164 0.0174 0.0174 0.0193 0.0210 0.0220 0.0220 0.0220 0.0226 0.0226 0.0237 0.0237 0.0246 0.0249 0.0249 0.0247 0.0230	0.1261 0.1261 0.1378 0.1378 0.1495 0.1495 0.2432 0.1902 0.1902 0.2198 0.2198 0.2490 0.2490 0.3108 0.3108 0.3108 0.3393 0.3668 0.3668 0.6461 0.6461 0.4391	0.0000 0.0000	0.0000 0.0000
======	ANTENNA.		ATTACHM	IFNT		ANTENNA 1	EODCES	
TYPE	ELEV ft		RAD ft	AZI	AXIAL kip		RAVITY TO	RSION t-kip

0.09

0.00

0.31

0.00

169.0

STD

0.0

1.4

0.0

#### 16-2545-MEG.txt

		16-2545-	MEG.txt	
			=======================================	
	Monopole Spatial Analysis		(c)2015	Guymast Inc.
-		736-4372	Web:w	ww.guymast.com
	ed under license at:			
Sabre To	owers and Poles	on	: 1 sep 2015	at: 8:42:18
170' Mor	nopole / Battle School, MO			
MAXIMUM	POLE DEFORMATIONS CALCULATED(W	.r.t. wind dir	ection)	
MAST ELEV		OWN	TILT	TWIST
ft	ALONG ACROSS	AL	ONG ACR	oss
169.0	15.67A -0.39K 2.0	)9A 10.	74A -0.	33к -0.02к
162.5	14.49A -0.36K 1.8	37A 10.	68A -0.	32K -0.02K
156.0	13.33A -0.32K 1.6	56A 10.	52A -0.	31к -0.02к
149.5	12.19A -0.29K 1.4	15A 10.	27A -0.	29K -0.01K
146.2	11.63A -0.27K 1.3	35A 10.	13A -0.	28K -0.01K
131.2	9.15A -0.21K 0.9	93A 9.	20A -0.	23K -0.01K
116.1	6.93A -0.15K 0.6	60A 7.	95A -0.	19к -0.01к
101.0	5.06A -0.11K 0.3	37A 6.	54A -0.	15K 0.00K
96.0	4.51A -0.10K 0.3	31A 6.	14A -0.	14K 0.00K
82.1	3.17A -0.07K 0.1	L8A 4.	99A -0.	11K 0.00K
68.2	2.10A -0.04K 0.0	)9A 3,	90A ~0.	08K 0.00K
54.2	1.28A -0.03K 0.0	)4A 2.	89A -0.	06K 0.00K
47.5	0.96A ~0.02K 0.0	)3A 2.	49A -0.	05κ 0.00κ
35.9	0.53A -0.01K 0.0	)1A 1.	80A -0.	04K 0.00K
24.2	0.23A 0.00K 0.0	ООВ 1.	16A -0.	02к 0.00к
12.6	0.06A 0.00K 0.0	)OB 0.	56A -0.	01K 0.00K
1.0	0.00A 0.00A 0.0	)0A 0.	00A 0.	0.00A
	ANTENNA ROTATIONS			
			1	
ELEV	AZI TYPE ROLL	DEFLECTIONS ( YAW PITC		
ft	deg			
169.0	0.0 STD 10.480 D 0.	906 к 10.74	0 A 10.740	A
			•	
MAXIMUM ======	POLE FORCES CALCULATED(w.r.t. t		10 <b>n</b> ) ====	
MAST	TOTAL SHEAR.w.r.t.WIND.		w.r.t.WIND.DI	
ELEV ft		koss ALO kip ft-k		
450.5				
169.0	3.35 Z 3.53 M 0.52	C 0.43	y 0.43 b	-0.42 I
	8.72 z 5.32 m 0.52	c -35.88	A -3.33 C	-0.49 K
162.5				

				16 3545 NEG	<b>4</b>	
	8.72 g	5.32 A	-0.53 K	16-2545-MEG -35.92 A	~3.33 C	-0.49 K
156.0	9.61 g	5.68 A	-0.53 K	-76.64 A	6.83 K	-0.94 K
136.0	9.62 g	5.70 A	-0.54 K	-76.69 A	6.80 K	-0.94 K
140 5	22.35 g	14.64 A	-0.54 K	-162.86 A	10.49 K	~1.23 к
149.5	22.35 Y	14.67 A	-0.52 к	-163.03 A	10.56 K	-1.25 K
146.0	23.14 Y	14.88 A	-0.52 K	-216.72 A	12.38 K	-1.35 K
146.2	23.15 i	14.87 A	-0.63 W	-216.52 A	12.37 K	-1.35 K
121 2	37.44 i	24.29 A	-0.63 W	-548.75 A	22.22 K	-1.76 K
131.2	37.44 j	24.29 A	-0.64 w	-548.76 A	22.22 K	-1.75 K
446.4	51.84 j	33.66 A	-0.64 W	-1034.89 A	32.58 W	-1.79 K
116.1	51.84 j	33.66 A	-0.66 K	-1034.91 A	32.57 W	-1.79 K
	56.60 j	35.57 A	-0.66 K	-1606.36 A	43.14 K	-1.82 K
101.0	56.60 j	35.59 A	-0.70 K	-1606.35 A	43.08 K	-1.81 K
25.4	59.45 j	36.34 A	-0.70 K	-1801.97 A	46.84 K	-1.84 K
96.0	59.45 j	36.25 M	-0.73 K	-1801.85 A	46.81 K	-1.84 K
22.4	64.73 j	38.15 M	-0.73 K	-2357.74 A	57.62 K	-1.95 K
82.1	64.73 j	38.18 в	-0.71 K	-2357.71 A	57.61 K	-1.95 к
55 D	70.29 j	39.90 в	-0.71 K	-2936.61 A	68.05 K	-2.01 K
68.2	70.29 Z	39.90 в	-0.71 K	-2936.61 A	68.06 K	-2.01 K
F4 5	75.40 Z	41.44 в	~0.71 K	-3532.80 A	78.50 K	-2.06 K
54.2	75.40 z	41.44 в	-0.72 к	-3532.80 A	78.48 K	-2.06 K
	79.76 Z	42.21 в	-0.72 K	-3827.86 A	83.53 K	-2.08 K
47.5	79.76 z	42.19 M	-0.72 K	-3827.82 A	83.57 K	-2.08 K
25.0	84.94 z	43.51 M	-0.72 K	-4345.11 A	92.23 K	-2.11 K
35.9	84.94 Z	43.50 в	-0.73 K	-4345.12 A	92.22 K	-2.11 K
	91.32 z	45.39 в	-0.73 K	-4876.44 A	100.89 K	-2.12 K
24.2	91.32 z	45.38 в	-0.73 K	-4876.43 A	100.89 K	-2.12 K
	98.45 z	46.94 в	-0.73 K	-5422.17 A	109.49 K	-2.13 K
12.6	98.45 Z	46.95 M	-0.73 K	-5422.16 A	109.48 K	-2.13 K
1.0	104.09 z	48.21 M	-0.73 K	-5977.96 A	118.00 K	-2.13 K
base reaction	104.09 z	-48.21 M	0.73 K	5977.96 A	-118.00 к	2.13 K

# COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
169.00	0.00z	0.00Y	0.01M	0.01a	YES	9.52A	45.2
162.50	0.01z	0.10A	0.01M	0.10A	YES	10.77A	45.2
102.50	0.01g	0.10A	0.01A	0.10A	YES	10.77A	45.2
156.00	0.01g	0.17A	0.01A	0.18A	YES	12.01A	45.2
130.00	0.01g	0.17A	0.01A	0.18A	YES	12.01A	45.2
	0.02g	0.30A	0.02A	0.32A	YES	13.25A	45.2

				16-25	545-MEG.tx1	<u> </u>	
149.50	0.01Y	0.25A	0.02A	0.25A	YES	10.25A	45.2
	0.01Y	0.30A	0.02A	0.31A	YES	10.75A	45.2
146.25	0.01i	0.32A	0.02A	0.32A	YES	10.46A	45.2
	0.02i	0.56A	0.03A	0.57A	YES	12.77A	45.2
131.17	0.02j	0.56A	0.03A	0.57A	YES	12.77A	45.2
116 00	0.02j	0.78A	0.03A	0.80A	YES	15.08A	45.2
116.08	0.02j	0.78A	0.03A	0.80A	YES	15.08A	45.2
101 00	0.02j	0.96A	0.03A	0.97A	YES	17.39A	45.2
101.00	0.02j	0.79A	0.02A	0.80A	YES	14.20A	45.2
96.00	0.02j	0.81A	0.02A	0.83A	YES	14.83A	45.2
96.00	0.02j	0.84A	0.02M	0.86A	YES	14.54A	45.2
82.08	0.02j	0.90A	0.02M	0.91A	YES	16.32A	45.2
82.08	0.02j	0.90A	0.02в	0.91A	YES	16.32A	45.2
68.17	0.02j	0.95A	0.02в	0.96A	YES	18.09A	45.2
00.17	0.02z	0.95A	0.02в	0.96A	YES	18.09A	45.2
54,25	0.02z	0.99A	0.02B	1.00A	YES	19.86A	45.2
34,23	0.02z	0.81A	0.02в	0.82A	YES	16.77A	45.2
47.50	0.02z	0.82A	0.02в	0.83A	YES	17.51A	45.2
47.30	0.02z	0.84A	0.02K	0.85A	YES	17.21A	45.2
35.87	0.02z	0.86A	0.02K	0.87A	YES	18.48A	45.2
33.67	0.02z	0.86A	0.02K	0.87A	YES	18.48A	45.2
24.25	0.02z	0.87A	0.02K	0.88A	YES	19.75A	45.2
24.23	0.02z	0.87A	0.02ĸ	0.88A	YES	19.75A	45.2
12.62	0.02z	0.87A	0.02κ	0.89A	YES	21.02A	45.2
12.02	0.02z	0.87A	0.02K	0.89A	YES	21.02A	45.2
1.00	0.02z	0.88A	0.02κ	0.89A	YES	22.29A	45.2
MAXIMUM	LOADS ONTO F	)NOITADNUC	v.r.t. wi	nd directi	on)		* * * * * * *
DOWN	I SUEAD W	r.t.WIND.D	FD MOME	 NT.w.r.t.W	ITND DID	TORSION	
kir	ALONG	ACROS	SS .	ALONG t-kip	ACROSS ft-kip	ft-kip	
104.09	•	-0.7	•	77.96	118.00	-2.13	
Z Z	7 46.ZI M		( -39	77.96 A	K K	-2,13 K	

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

(USA) - Monopole Spatial Analysis (c)2015 Guymast Inc.
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Sabre Towers and Poles on: 1 sep 2015 at: 8:42:27

170' Monopole / Battle School, MO

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

 $\pm$  only 1 condition(s) shown in full  $\pm$  some  $\pm$  some concentrated wind loads may have been derived from full-scale wind tunnel testing  $\pm$  some concentrated wind loads

60 mph wind with no ice, Wind Azimuth: 00

<u>.</u>

LOADS ON POLE

LOADING CONDITION A

		(noitoanib	baiw .t.n	*W) (JETA	כ∀דכחד	SNOITAM90	M POLE DEF	UMIXAM
00.0	90.0	00.0	EI.0	0 <b>°</b> 0	†*T	0.0	0°69T	QT2
TORSION ft-kip		., АИТЕИИА SHEAR G kip	AXIAL Kip	ENT AZI	МНОАТТА QA <i>Я</i> ĴĴ		.ANTENNA. VELEV TT	TYPE
							NIDAOL A	
0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0	0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0	8242.0 8260.0 8260.0	#20.0 #20.0 #20.0 #20.0 #20.0 #4	000000000000000000000000000000000000000	0.081 0.081	00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.	000°T \$Z9°ZT \$Z9°ZT \$Z9°ZT \$Z9°ZT \$Z29°ZT \$Z28°SE \$Z8°SE \$Z8°SE \$Z8°SE \$Z8°Z4 \$Z5°Z4 \$	999999999999999999
0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0 0000.0	0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0 0000°0	0.77800 0.1986 0.1986 0.1986 0.1986 0.1986 0.1188 0.2452 0	0.0000 0.1254 0.0553 0.0553 0.0000 0.1208 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.	000.6T 029.0E 029.0E 000.75 000.58 000.58 000.66 000.0TT 000.75T 000.45T 000.6ET 000.6ET 000.45T 000.75T 000.75T 000.75T 000.75T 000.89T 000.69T 000.69T	
	VERTICAL YERTICAL	DOMN	AOH SIAOH GIA	LOAD AZI	TA, . GA	APPLYLO	ELEV	LOAD

MAST ..... DEFLECTIONS (ft)...... ROTATIONS (deg).....

Page 11

ELEV ft	HORIZONTAL ALONG	ACROSS	DOWN	16-2545-MEG.txt TILT ALONG	ACROSS	TWIST
169.0	3.46A	0.080	0.10A	2.34A	0.07c	0.00E
162.5	3.20A	0.07c	0.09A	2.32A	0.06c	0.00E
156.0	2.94в	0.06c	0.08A	2.29A	0.06c	0.00E
149.5	2.68в	0.06C	0.07A	2.23A	0.06c	0.00E
146.2	2.55в	0.05C	0.07A	2.20A	0.06c	0.00E
131.2	2.00в	0.04c	0.05A	2.00A	0.05c	0.00E
116.1	1.51B	0.03c	0.03A	1.72B	0.04C	0.00E
101.0	1.10B	0.02c	0.02A	1,418	0.03c	0.00E
96.0	0.98в	0.02c	0.02A	1.33в	0.03c	0.00E
82.1	0.69в	0.01c	0.01A	1.08в	0.02c	0.00E
68.2	0.45в	0.01c	0.01A	0.848	0.02c	0.00E
54.2	0.28в	0.01c	0.00A	0.62в	0.01c	0.00E
47.5	0.21в	0.00c	0.00A	0.54B	0.01c	0.00E
35.9	0.11в	0.00c	0.00A	0.39в	0.01c	0.00E
24.2	0.05в	0.00c	0.00A	0.25в	0.00C	0.00E
12.6	0.01в	0.00c	0.00A	0.12в	0.00c	0.00E
1.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

# MAXIMUM ANTENNA ROTATIONS

ELEV <del>f</del> t	,	ANT TYPE	ROLL	BEAM DEFLECT YAW	TIONS (deg) PITCH	TOTAL
169.0	0.0	STD	-2.282 ]	0.042 K	2.336 A	2.336 A

# MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.1 ALONG kip	t.WIND.DIR ACROSS kip	MOMENT.w.r.t ALONG ft-kip	.wind.dir ACROSS ft-kip	TORSION ft-kip
169.0	0.96 F	0.76 A	-0.11 κ	0.08 A	-0.09 J	-0.09 I
162.5	4.30 F	1.15 A	-0.11 к 0.12 с	-7.78 A -7.78 A	-0.68 C	-0.09 I
156.0	4.63 H	1.23 A	0.12 c	-16.67 A	-1.46 C	-0.09 I -0.09 I
149.5	10.66 г	3.16 A	0.12 c	-35.44 A	-2.26 c	-0.09 I
146.2	10.66 I 11.08 I	3.18 A 3.23 A	-0.12 к -0.12 к	-35.40 A -47.19 A	2.26 К 2.67 К	-0.09 I 0.09 E
140.2	11.09 D 17.75 D	3.20 в 5.24 в	-0.12 К -0.12 К	-47.20 A -119.20 A	-2.67 C 4.60 к	0.09 E 0.09 E
131.2	17.74 I	5.24 B	0.12 c	-119.20 A	4.60 K	0.09 E
116.1	24.37 I 24.37 I	7.27 B 7.27 B	0.12 c	-224.39 A -224.39 A	6.60 K	0.10 E

16-2545-MEG.txt

101.0					8.58 K	
	26.34 I	7.70 B	-0.13 K	-347.64 A	8.58 K	0.11 E
96.0	27.94 I	7.87 B	-0.13 K	-389.74 в	9.29 K	0.11 E
30.0	27.94 I	7.84 в	0.13 c	-389.71 A	9.30 K	0.11 E
82.1		8.25 B	0.13 C	-509.56 A	-11.15 C	0.12 E
82.1	30.32 I	8.25 L	0.14 c	-509.56 A	-11.15 c	0.12 E
60.2	33.06 I	8.63 L	0.14 C	-634.20 в	-13.20 C	0.13 E
68.2	33.06 I	8.63 L	0.14 c	-634.21 в	-13.20 c	0.13 E
<b>54</b> 0		8.96 L	0.14 C	-762.53 в	-15.26 c	0.13 E
54.2	35.52 I	8.96 L	0.14 c	-762.55 в	-15.26 c	0.13 E
47.5		9.12 L	0.14 c	-826.07 в	-16.24 C	0.13 E
47.5	38.25 I	9.12 ∟	0.14 c	-826.06 в	-16.23 c	0.13 E
25.0	40,90 I	9.41 L	0.14 C	-937.43 в	-17.89 C	0.13 E
35.9	40.90 I	9.41 L	0.13 c	-937.43 в	-17.89 C	0.13 E
24.2	43.96 I	9.81 L	0.13 C	-1051.94 в	-19.48 C	0.14 E
24.2	43.96 I	9.81 B	0.13 c	-1051.94 в	-19.48 C	0.14 E
	47.73 I	10.15 B	0.13 c	-1169.74 в	-21.06 c	0.14 E
12,6	47.73 I	10.15 L	0.13 C	-1169.74 в	-21.06 C	0.14 E
1.0	50.90 I			~1289.93 в		0.14 E
base reaction	50.90 I	-10.42 L	-0.13 c	1289.93 в	22.62 C	-0.14 E

# COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
ft			TORSTONAL				ALLOWED
169.00	0.00F	0.00н	0.00A	0.00н	YES	9.52A	45.2
162.50	0.00F	0.02A	0.00A	0.03A	YES	10.77A	45.2
102.30	0.00H	0.02A	0.00A	0.03A	YES	10.77A	45.2
156.00	0.00H	0.04A	0.00A	0.04A	YES	12.01A	45.2
156.00	0.001	0.04A	0.00A	0.04A	YES	12.01A	45.2
140 50	0.011	0.07A	0.01A	0.07A	YES	13.25A	45.2
149.50	0.011	0.05A	0.00A	0.06A	YES	10.25A	45.2
146.25	0.011	0.07A	0.00A	0.07A	YES	10.75A	45.2
146.25	0.01D	0.07A	0.00в	0.08A	YES	10.46A	45.2
	0.01D	0.12A	0.01B	0.13A	YES	12.77A	45.2
131.17	0.011	0.12A	0.01B	0.13A	YES	12.77A	45.2
446.00	0.011	0.17A	0.01B	0.18A	YES	15.08A	45.2
116.08	0.011	0.17A	0.01в	0.18A	YES	15.08A	45.2
	0.011	0.21B	0.01B	0.22в	YES	17.39A	45.2
101.00	0.011	0.17A	0.01B	0.18A	YES	14.20A	45.2
96 00	0.011	0.188	0.01B	0.19B	YES	14.83A	45.2
96.00	*********		*******		******		

	0.04	0.40			45-MEG.tx		4= 5
		0.18в				14.54A	
82.08						16.32A	
	0.011	0.19в	0.00L	0.20в	YES	16.32A	45.2
68.17	0.011	0.21B	0.00L	0.21B	YES	18.09A	45.2
00,17	0.011	0.21B	0.00L	0.21в	YES	18.09A	45.2
54.25	0.011	0.21B	0,00L	0.22B	YES	19.86A	45.2
34.23	0.011	0.188	0,00в	0.18в	YES	16.77A	45.2
47.50	0.011	0.188	0.00B	0.19в	YES	17.51A	45.2
47.30	0.011	0.18в	0.00L	0.19в	YES	17.21A	45.2
35.87	0.011	0.18B	0.00L	0.19в	YES	18.48A	45.2
01.01	0.01r	0.18в	0.00в	0.19B	YES	18.48A	45.2
24.25	0.011	0.19в	0.00B	0.20B	YES	19.75A	45.2
27,23	0.011	0.19в	0.00в	0,20в	YES	19.75A	45.2
12.62	0.011	0.19в	0.00в	0.20B	YES	21.02A	45.2
12.62	0.011	0.19в	0.00в	0.20в	YES	21.02A	45.2
1,00						22.29A	
	LOADS ONTO						.,
=======	LOADS ONTO	======================================			===		
DOWN	N SHEAR.W	.r.t.WIND.	DIR MOMEN	T.w.r.t.W	IND.DIR	TORSION	
kip	o ki	G ACRO	cip f1	:-kip	ft-kip	ft-kip	
50.90	10.4	2 0.	13 -128	39.93	-22.62	0.14	

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SO#: 16-2545-MEG Site Name: Battle School, MO

Date: 9/1/2015

# Round Base Plate and Anchor Rods, per ANSI/TIA 222-G

### Pole Data

Diameter: 59.690 in (flat to flat)

Thickness: 0.4375 in Yield (Fy): 65 ksi

# of Sides: 18 "0" IF Round

Strength (Fu): 80 ksi

### Reactions

Moment, Mu: 5977.96 ft-kips

Axial, Pu: 61.07 kips Shear, Vu: 48.2 kips

# **Anchor Rod Data**

Quantity: 18

Diameter: 2.25 in Anchor Rod Results

Rod Material: A615

Strength (Fu): 100 ksi Maximum Rod (Pu+ Vu/η): 247.6 Kips

Yield (Fy): 75 ksi Allowable Φ\*Rnt: 260.0 Kips (per 4.9.9)

BC Diam. (in): 66.75 BC Override: Anchor Rod Interaction Ratio: 95.2% Pass

# Plate Data

### Base Plate Results

Diameter (in): 72.5 Dia. Override:

Thickness: 2.25 in Base Plate (Mu/Z): 40.9 ksi

Yield (Fy): 50 ksi Allowable Ф\*Fy: 45.0 ksi (per AISC)

Eff Width/Rod: 10.52 in Base Plate Interaction Ratio: 90.9% Pass

Drain Hole: 2.625 in. diameter

Drain Location: 27.75 in. center of pole to center of drain hole

Center Hole: 47.5 in. diameter

```
LPile Plus for Windows, Version 2013~07.005
                            Analysis of Individual Piles and Drilled Shafts
                          Subjected to Lateral Loading Using the p-y Method
                                             © 1985-2013 by Ensoft, Inc.
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This copy of LPile is used by:
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Serial Number of Security Device: 160777296
This copy of LPile is licensed for exclusive use by: Sabre Communications Corporation
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                                            Files Used for Analysis
Path to file locations: C:\Progra~2\Ensoft\Lpile2013\
Name of input data file: 16-2545-MEG.lp7d
Name of output report file: 16-2545-MEG.lp7o
Name of plot output file: 16-2545-MEG.lp7p
Name of runtime messeage file: 16-2545-MEG.lp7r
                                             Date and Time of Analysis
                          Date: September 1, 2015 Time: 9:38:12
                                                     Problem Title
170' Monopole BOONE COUNTY Battle School, MO (16-2545-MEG) 9-1-15 BD
Job Number:
Client:
Engineer:
Description:
                                             Program Options and Settings
Engineering Units of Input Data and Computations:
- Engineering units are US Customary Units (pounds, feet, inches)
Analysis Control Options:

- Maximum number of iterations allowed

- Deflection tolerance for convergence

- Maximum allowable deflection
                                                                                                                 300
                                                                                                    1.0000E-05 in
100.0000 in
- Number of pile increments
                                                                                                                 100
Loading Type and Number of Cycles of Loading:
- Static loading specified
Computational Options:
 - Use unfactorial options:

- Use unfactored loads in computations (conventional analysis)

- Compute pile response under loading and nonlinear bending properties of pile

(only if nonlinear pile properties are input)

- Use of p-y modification factors for p-y curves not selected

- Loading by lateral soil movements acting on pile not selected
```

16-2545-MEG. Tpo

- Input of shear resistance at the pile tip not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

No p-y curves to be computed and reported for user-specified depths
 Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
 Printing Increment (nodal spacing of output points) = 3

# Pile Structural Properties and Geometry

Total number of pile sections Total length of pile 37,50 ft 0.50 ft Depth of ground surface below top of pile

Pile diameter values used for p-y curve computations are defined using 2 points.

 $\ensuremath{\text{p-y}}$  curves are computed using pile diameter values interpolated with depth over the length of the pile.

Point	Depth X ft	Pile Diameter in
1	0.0000	96.0000000
2	37.500000	96.0000000

### Input Structural Properties:

#### Pile Section No. 1:

Section Type	<pre>= Drilled Shaft (Bored Pile)</pre>
Section Length	= 37.50000 ft
Section Diameter	= 96,00000 in

	Ground Slope a	and Pile Batte	r Angles	
Ground Slope Angle			= =	0.000 degrees 0.000 radians
Pile Batter Angle			=	0.000 degrees 0.000 radians

# Soil and Rock Layering Information

The soil profile is modelled using 5 layers

Layer 1 is soft clay, p-y criteria by Matlock, 1970

```
Distance from top of pile to top of layer
Distance from top of pile to bottom of layer
Effective unit weight at top of layer
Effective unit weight at bottom of layer
Undrained cohesion at top of layer
Undrained cohesion at bottom of layer
Epsilon-50 at top of layer
Epsilon-50 at bottom of layer
                                                                                                                                                                                                                                                                                                                                                     0.50000 ft
3.50000 ft
124.93440 pcf
124.93440 pcf
14.40000 psf
14.40000 psf
0.10000
                                                                                                                                                                                                                                                                                                                         =
                                                                                                                                                                                                                                                                                                                          ==
```

#### Layer 2 is stiff clay without free water

```
Distance from top of pile to top of layer
Distance from top of pile to bottom of layer
Effective unit weight at top of layer
Effective unit weight at bottom of layer
Undrained cohesion at top of layer
Undrained cohesion at bottom of layer
Epsilon-50 at top of layer
Epsilon-50 at bottom of layer
                                                                                                                                                                                                                                                                                                                                                          3.50000 ft
13.50000 ft
124.93440 pcf
124.93440 pcf
1249.92000 psf
1249.92000 psf
0.00900
0.00900
                                                                                                                                                                                                                                                                                                                                  =
```

#### 16-2545-MEG. Tpo

```
Layer 3 is stiff clay without free water
```

Distance from top of pile to top of layer	=	13.50000 ft
Distance from top of pile to bottom of layer		28.50000 ft
Effective unit weight at top of layer	=	124,93440 pcf
Effective unit weight at bottom of layer	=	124.93440 pcf
Undrained cohesion at top of layer	=	2999.52000 psf
Undrained cohesion at bottom of layer	=	2999.52000 psf
Epsilon-50 at top of layer	=	0.00500
Epsilon-50 at bottom of layer	=	0.00500

#### Layer 4 is stiff clay without free water

Distance from top of pile to top of layer	=	28.50000 ft
Distance from top of pile to bottom of layer	=	30.50000 ft
Effective unit weight at top of layer	==	62.55360 pcf
Effective unit weight at bottom of layer		62.55360 pcf
Undrained cohesion at top of layer	=	2999.52000 psf
Undrained cohesion at bottom of layer	=	2999.52000 psf
Epsilon-50 at top of layer	=	0.00500
Epsilon-50 at bottom of layer	=	0.00500

### Layer 5 is stiff clay without free water

	stance from top of pile to top of layer	=	30.50000	
Di	stance from top of pile to bottom of layer	=	50.50000	ft
Ef	fective unit weight at top of layer	=	62,55360	pcf
	fective unit weight at bottom of layer	=	62.55360	pcf
Un	drained cohesion at top of layer		2499.84000	
	drained cohesion at bottom of layer		2499.84000	
	silon-50 at top of layer		0.00600	
	silon-50 at bottom of layer		0.00600	

(Depth of lowest soil layer extends 13.00 ft below pile tip)

### Summary of Soil Properties

Layer Num.	Layer Soil Type (p-y Curve Criteria)	Layer Depth ft	Effective Unit Wt. pcf	Undrained Cohesion psf	Strain Factor Epsilon 50
1	Soft Clay	0.500 3.500	124.934 124.934	14.400 14.400	0.10000 0.10000
2	Stiff Clay w/o Free Water	3.500 13.500	124.934 124.934	1249.920 1249.920	0.00900
3	Stiff Clay w/o Free Water	13.500 28.500	124.934 124.934	2999.520	0.00500
4	Stiff Clay w/o Free Water	28.500 30.500	62.554 62.554	2999.520 2999.520	0.00500
5	Stiff Clay w/o Free Water	30.500 50.500	62.554 62.554	2499.840 2499.840	0.00600 0.00600

Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 1

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length
1	1	V = 64267. 1bs	M = 95647360. in-1bs	81427.	No

\$16--2545--MEG.lpo\$ R = rotational stiffness applie to pile head Axial thrust is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions Number of Pile Sections Analyzed = 1

Pile Section No. 1:

### Dimensions and Properties of Drilled Shaft (Bored Pile):

# Axial Structural Capacities:

Nom. Axial Structural Capacity = 0.85 Fc Ac + Fy As	=	27197.733 kips
Tensile Load for Cracking of Concrete	=	-3144.401 kips
Nominal Axial Tensile Capacity	=	-2743.200 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

2 1.27000 1.27000 43.07629 7.5 3 1.27000 1.27000 41.10292 14.9 4 1.27000 1.27000 37.88065 21.8 5 1.27000 1.27000 33.50740 28.1	00000 59551 96024 37040 L1605
10	37040 11605 50740 38065 80292 97629 94081 97629 90292 88065 90740 11605

NOTE: The positions of the above rebars were computed by LPile

\$16--2545--MEG.]po\$ Minimum spacing between any two bars not equal to zero = 6.35453 inches between Bars 22 and 23 Spacing to aggregate size ratio = 8.47270

### Concrete Properties:

Compressive Strength of Concrete		4000.00000 psi
Modulus of Elasticity of Concrete		3604997. psi
Modulus of Rupture of Concrete	=	-474.34164 psi
Compression Strain at Peak Stress	=	0.00189
Tensile Strain at Fracture of Concrete	=	-0.0001154
Maximum Coarse Aggregate Size	=	0.75000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 1

Number	Axial Thrust Force kips
1	81.427

#### Definitions of Run Messages and Notes:

- C = concrete in section has cracked in tension.
  Y = stress in reinforcing steel has reached yield stress.
  T = ACI 318-08 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than than 0.003. See ACI 318-08, Section 10.3.4.
  Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
Position of neutral axis is measured from edge of compression side of pile.
Compressive stresses and strains are positive in sign.
Tensile stresses and strains are negative in sign.

Axial Thrust Force = 81.427 kips

Bending	Bending	Bending	Depth to	Max Comp	Max Tens	Max Concrete	Мах
Steel Run Curvature	Moment	Stiffness	N Axis	Strain	Strain	Stress	
Stress Msg rad/in. ksi	in-kip	kip-in2	in 	in/in 	in/in	ksi 	
0.000000313 0.5050797	 5849.1044616	18717134277.	56.2129356	0.0000176	-0.0000124	0.0735255	
0.000000625 0.9359700	11670.	18671654557.	52.1197234	0.0000326	-0.0000274	0.1357120	
0.9339700 0.000000938	17461.	18625044848.	50.7554201	0.0000476	-0.0000424	0.1974025	
0.000001250 1.7977579	23223.	18578149400.	50.0733207	0.0000626	-0.0000574	0.2585969	
0.000001563	28955.	18531139297.	49.6640988	0.0000776	-0.0000724	0.3192952	
2.2286545 0.000001875	34658.	18484071836.	49.3913155	0.0000926	-0.0000874	0.3794972	
2.6595528 0.000002188 3.0904527	40331.	18436971564.	49.1964967	0.0001076	-0.0001024	0.4392031	
0.000002500	40331.	16132350119.	24.9029214	0.0000623	-0.0001777	0.2547634	
-5.1197382 C 0.000002813	40331.	14339866772.	24.4292505	0.0000687	-0.0002013	0.2805732	
-5.7983393 C 0.000003125	40331.	12905880095.	24.0353618	0.0000751	-0.0002249	0.3061032	
-6.4782953 C 0.000003438	40331.	11732618268.	23.7140831	0.0000815	-0.0002485	0.3315592	
-7.1581523 C 0.000003750	40331.	10754900079.	23.4436798	0.0000879	-0.0002721	0.3568867	
-7.8382998 C 0.000004063	40331.	9927600073,	23.2076537	0.0000943	-0.0002957	0.3820081	
-8.5192983 C 0.000004375	40331.	9218485782.	23.0061465	0.0001007	-0.0003193	0.4070566	
-9.2001951 C 0.000004688	40331.	8603920063.	22.8322567	0.0001070	-0.0003430	0.4320322	
-9.8809901 c 0.000005000	40331.	8066175059.	22.6808079	0.0001134	-0.0003666	0.4569347	
-10.5616828 c 0.000005313	40331.	7591694174.	22.5472179	0.0001198	-0.0003902	0.4817509	
-11.2423692 C 0.000005625	40331.	7169933386.	22.4236159	0.0001261	-0.0004139	0.5063717	

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-11.9238476 C 0.000005938	40331.	6792568471.	22.3136405	0.0001325	-0.0004375	0.5309204
-12.6052200 C 0.000006250	40331.	6452940048.	22.2152493	0.0001388	-0.0004612	0.5553970
-13.2864860 C 0.000006563	40331.	6145657188.	22.1267892	0.0001452	-0.0004848	0.5798014
-13.9676454 C 0.000006875	40331.	5866309134.	22.0469075	0.0001516	-0.0005084	0.6041335
-14.6486978 C 0.000007188	40331.	5611252215.	21.9744869	0.0001579	-0.0005321	0.6283931
-15.3296429 C 0.000007500	40331.	5377450040.	21.9085961	0.0001643	-0.0005557	0.6525801
-16.0104803 C 0.000007813	40331.	5162352038.	21.8484530	0.0001707	-0.0005793	0.6766944
-16.6912099 C 0.000008125	40331.	4963800037.	21.7933957	0.0001771	-0.0006029	0.7007360
-17.3718311 C 0.000008438	40331.	4779955591.	21.7428606	0.0001835	-0.0006265	0.7247046
-18.0523438 C 0.000008750	40331.	4609242891.	21.6963644	0.0001898	-0.0006502	0.7486003
-18.7327475 C 0.000009063	40331.	4450303481.	21.6534906	0.0001962	-0.0006738	0.7724228
-19.4130420 C 0.000009375	40331.	4301960032.	21.6138780	0.0002026	-0.0006974	0.7961720
-20.0932269 C 0.000009688	40331.	4163187127.	21.5759815	0.0002090	-0.0007210	0.8198028
-20.7736477 C 0.0000100	40331.	4033087530.	21.5401479	0.0002154	-0.0007446	0.8433346
-21.4541571 C 0.0000103	40331.	3910872756.	21.5068715	0.0002218	-0.0007682	0.8667939
-22.1345512 C 0.0000106	40331.	3795847087.	21.4759280	0.0002282	-0.0007918	0.8901807
-22.8148297 C 0.0000109	40331.	3687394313.	21.4471186	0.0002346	-0.0008154	0.9134947
-23.4949921 C 0.0000113	40331.	3584966693.	21.4202665	0.0002410	-0.0008390	0.9367360
-24.1750380 C 0.0000116	40331.	3488075701.	21.3952142	0.0002474	-0.0008626	0.9599043
-24.8549672 C 0.0000119	40331.	3396284236.	21.3718208	0.0002538	-0.0008862	0.9829995
-25.5347792 C 0.0000122	40331.	3309200024.	21.3499597	0.0002602	-0.0009098	1.0060215
-26.2144736 C 0.0000128	40331.	3147775633.	21.3103901	0.0002730	-0.0009570	1.0518456
-27.5735081 C 0.0000134	40331.	3001367464.	21.2757202	0.0002859	-0.0010041	1.0973754
-28.9320677 C 0.0000141	40431.	2875079791.	21.2453046	0.0002988	-0.0010512	1.1426101
-30.2901492 C 0.0000147	42111.	2867136445.	21.2186075	0.0003116	-0.0010984	1.1875485
-31.6477493 C 0.0000153	43790.	2859751750.	21.1951811	0.0003246	-0.0011454	1.2321896
-33.0048649 C 0.0000159	45467.	2852859479.	21.1746475	0.0003375	-0.0011925	1.2765326
-34.3614926 C 0.0000166	47144.	2846403399.	21.1566863	0.0003504	-0.0012396	1.3205762
-35.7176291 C 0.0000172	48818.	2840335297.	21.1410235	0.0003634	-0.0012866	1.3643194
-37.0732715 C 0.0000178	50492.	2834614188.	21.1274238	0.0003763	-0.0013337	1.4077614
-38.4284155 C 0.0000184	52163.	2829204158.	21.1156838	0.0003893	-0.0013807	1.4509008
-39.7830580 C 0.0000191	53834.	2824074166.	21,1056270	0.0004023	-0.0014277	1.4937368
-41.1371957 C 0.0000197	55503.	2819197106.	21.0970992	0.0004153	-0.0014747	1.5362681
-42.4908250 C 0.0000203	57171.	2814549204.	21.0899654	0.0004284	-0.0015216	1.5784937
-43.8439423 C 0.0000209	58837.	2810109519.	21.0841067	0.0004414	-0.0015686	1.6204125
-45.1965440 C 0.0000216	60501.	2805859535.	21.0794181	0.0004545	-0.0016155	1.6620233
-46.5486264 C 0.0000222	62165.	2801782815.	21.0758065	0.0004676	-0.0016624	1.7033251
-47.9001857 C 0.0000228	63826.	2797864720.	21.0731891	0.0004807	-0.0017093	1.7443166
-49.2512183 C 0.0000234	65487.	2794092167.	21.0714920	0.0004939	-0.0017561	1.7849968
-50.6017202 C 0.0000241	67145.	2790453428.	21.0706489	0.0005070	-0.0018030	1.8253645
-51.9516877 C 0.0000247	68803.	2786937959.	21.0706006	0.0005202	-0.0018498	1.8654184
-53.3011168 C 0.0000253	70458.	2783536251.	21.0712936	0.0005334	-0.0018966	1.9051574
-54.6500035 C						

0 0000350	70110	2700220700	16-2545-MEG.			
0.0000259 -55.9983437 C	72112.	2780239709.	21.0726796	0.0005466	-0.0019434	1.9445804
0.0000266 -57.3461335 C	73765.	2777040539.	21.0747150	0.0005598	-0.0019902	1.9836860
0.0000272 -58.6933687 C	75416.	2773931664.	21.0773603	0.0005730	-0.0020370	2.0224730
0.0000278 -60.0000000 CY	77066.	2770906635.	21.0805795	0.0005863	-0.0020837	2.0609403
0.0000284 -60.0000000 CY	78714.	2767959566.	21.0843400	0.0005996	-0.0021304	2.0990865
0.0000291 -60.0000000 CY	80357.	2764977123.	21.0883428	0.0006129	-0.0021771	2.1368877
0.0000297 -60.0000000 cy	81876.	2757945155.	21.0824000	0.0006259	-0.0022241	2.1734775
0.0000303 -60.0000000 CY	83158.	2743343521.	21.0572334	0.0006383	-0.0022717	2.2080297
0.0000309 -60.0000000 CY	84286.	2724382630.	21.0206302	0.0006503	-0.0023197	2.2411684
0.0000316 -60.0000000 CY	85356.	2704358518.	20.9811864	0.0006622	-0.0023678	2.2736207
0.0000322 -60.0000000 CY	86323.	2681872254.	20.9347888	0.0006738	-0.0024162	2.3050168
0.0000328 -60.0000000 CY	87190.	2657213578.	20.8821674	0.0006852	-0.0024648	2.3354074
0.0000334 -60.0000000 CY	88052.	2633337486.	20.8315496	0.0006966	-0.0025134	2.3655264
0.0000341 -60.0000000 CY	88877.	2609238965.	20.7799569	0.0007078	-0.0025622	2.3951113
0.0000347	89589.	2582742709.	20.7208301	0.0007188	-0.0026112	2.4235585
0.0000353	90262.	2556093105.	20.6608649	0.0007296	-0.0026604	2.4514782
0.0000359	90933.	2530312000.	20.6008757	0.0007403	-0.0027097	2.4789502
-60.0000000 CY 0.0000366	91603.	2505373353.	20.5419159	0.0007511	-0.0027589	2.5060795
-60.0000000 CY 0.0000372 -60.0000000 CY	92247.	2480583889.	20.4828833	0.0007617	-0.0028083	2.5327684
0.0000397	94297.	2375989801.	20.2218498	0.0008026	-0.0030074	2.6328417
-60,0000000 CY 0,0000422	96168.	2279527063.	19.9795361	0.0008429	-0.0032071	2.7281483
-60.0000000 CY 0.0000447	97640.	2184943026.	19.7327508	0.0008818	~0.0034082	2.8167584
-60.0000000 CY 0.0000472	99085.	2099804529.	19,5021037	0.0009203	-0.0036097	2.9011193
-60.0000000 CY 0.0000497	100179.	2016181307.	19.2602432	0.0009570	-0.0038130	2.9786986
-60.0000000 CY 0.0000522	101197.	1939098953.	19.0370885	0.0009935	-0.0040165	3.0529572
-60.0000000 CY 0.0000547	102210.	1868979689.	18.8365875	0.0010301	-0.0042199	3.1246576
-60.0000000 CY 0.0000572	103076.	1802422311.	18.6355209	0.0010657	-0.0044243	3.1915639
-60,0000000 CY 0,0000597	103749,	1738195129,	18.4252788	0.0010998	-0.0046302	3.2529670
-60.0000000 CY 0.0000622	104418.	1679078050.	18.2337034	0.0011339	-0.0048361	3.3121380
-60.0000000 CY 0.0000647	105083.	1624477817.	18.0586510	0.0011682	-0.0050418	3.3690548
~60.0000000 CY 0.0000672	105746.	1573889394,	17.8982976	0.0012025	-0.0052475	3.4236949
-60.0000000 CY 0.0000697	106301.	1525391812.	17.7377913	0.0012361	-0.0054539	3.4746127
-60.0000000 CY 0.0000722	106719,	1478361294.	17,5637891	0.0012679	-0.0056621	3.5205706
-60.0000000 CY 0.0000747	107135.	1434446556.	17,4027703	0.0012998	-0.0058702	3.5645650
-60.0000000 CY 0.0000772	107549.	1393344348.	17.2534877	0.0013318	-0.0060782	3.6065766
-60.0000000 CY 0.0000797	107960.	1354789453.	17.1148512	0.0013638	-0.0062862	3.6465859
-60.0000000 CY 0.0000822	108368.	1318548914.	16.9859039	0.0013050	-0.0064940	
-60.0000000 CY 0.0000847	108774.	1284417274.	16.8658021	0.0013300		3.6845732
-60.0000000 CY 0.0000872	109138.	1251758848.	16.7443073		-0.0067017	3.7205182
-60.0000000 CY 0.0000897	109428.	1220102055.		0.0014599	-0.0069101	3.7535299
-60.0000000 CY 0.0000922	109669.		16.6156608	0.0014902	-0.0071198	3.7832364
-60.0000000 CY 0.0000947		1189629916.	16.4885708	0.0015200	-0.0073300	3.8105749
-60.0000000 CY	109908.	1133331045	16.3691824	0.0015500	-0.0075400	3.8361518
0.0000972	110146.	1133331945.	16.2569118	0.0015800	-0.0077500	3.8599497

16-2545-MEG. Tpo -60,0000000 CY 0.0000997 110381. 1107272460. 16.1512343 0.0016101 -0.0079599 3.8819511 -60.0000000 0000000 CY 0.0001022 110615. 1082469249. 16,0516766 0.0016403 -0.0081697 3 9021380 -60.0000000 0000000 CY 0.0001047 110846. 1058832007. 15.9578111 0.0016706 -0.0083794 3.9204919 -60.0000000 0.0001072 -60.0000000 C 111076. 1036278846. 15.8692503 0.0017010 -0.0085890 3.9369944 0.0001097 0000000 111297. 1014671414. 15.7792361 0.0017308 -0.0087992 3.9512981 -60,0000000 0.0001122 111512. 993978087. 15,6908390 0.0017603 -0.0090097 3.9636541 -60.0000000 CY 0,0017899 111723. 974153839. 15,6068436 ~0.0092201 3.9742269 -60,0000000 CY 0.0001172 111933. 955157879. 15.5272534 0.0018196 -0.0094304 3.9830135 -60.0000000 cy 15,4417250 -0.0096418 112078. 936421413. 0.0018482 3.9897383 0.0001222 -60,0000000 112212. 918358057. 15.3588836 0.0018767 -0.0098533 3,9947622 -60.0000000 CY 0.0001247 112337. 900951068. 15,2789709 0.0019051 -0.01006493.9981079 ~60.0000000 CY 0.0001272 112458. 884192082. 15.2024373 0.0019336 -0.0102764 3.9997871 -60.0000000 C 112577. 868063445. 15,1297589 0.0019621 -0.0104879 3.9957299 -60.0000000 CY 0.0001322 112694. 852530371. 15.0606799 0.0019908 -0.0106992 3.9917263 -60.0000000 0.0001347 112809. 837564039. 14,9948301 0.0020196 -0.0109104 3.9958708 -60.0000000 CY 0.0001372 112924. 14.9320405 0.0020485 823133305. -0.0111215 3.9985966 -60.0000000 0.0001522 113534. 746013670. 14.5745368 0.0022181 -0.0123919 3.9987415 60.0000000 CY 0.0001672 114094. 682429986. 14.2953430 0.0023900 -0.0136600 3.9962157 60.0000000 0.0001822 628355122. 14.0500337 0.0025597 -0.0149303 114478. 3.9854969 60.0000000 0.0001972 60.0000000 CY 114729. 0.0027248 -0.0162052 581825171. 13,8183189 3.9998005 0.0002122 114939. 541684017. 13.6113603 0.0028882 -0.0174818 3.9842239 60.0000000 0.0002272 115138. 506799212. 13.4388478 0.0030531 -0.0187569 3,9987992 60.0000000 CYT 0.0002422 115285. 476013898. 13.3138907 0.0032245 -0.0200255 3.9813651 60.0000000 0.0002572 115422. 448783648. 13.2097220 0.0033974 -0.0212926 3.9901201 0.0002722 60.0000000 CYT 0.000 115531. 424454150. 13 1313029 0.0035742 -0.0225558 3.9998750 115603. 402534122. 13.0676164 0.0037529 -0.0238171 3.9766314 60.0000000 CYT

13, 1375898

0.0039700

-0.0250400

3.9904834

Summary of Results for Nominal (Unfactored) Moment Capacity for Section 1

382553111.

Moment values interpolated at maximum compressive strain = 0.003 or maximum developed moment if pile fails at smaller strains.

115603.

0.0003022 60.0000000 CYT

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	81,427	115074.070	0.00300000

Note note that the values of moment capacity in the table above are not factored by a strength reduction factor (phi-factor).

In ACI 318-08, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318-08, Section 9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Resistance Nominal Ultimate (Factored) Ultimate (Factored) Bending Stiffness

Load	Factor	16-7 Moment Capacity	2545-MEG.lpo Axial Thrust	Moment Capacity	at Ult.
Mom, Cap. No. kip-in∧2	for Moment	in-kip	kips	in-kip	
1 2775095518	0.65 3.469	115074.070	52.927	74798.142	
1 2764075998	0.70 3.771	115074.070	56.999	80551.847	
1 268227270	0.75 0.698	115074.070	61.070	86305.552	

Computed Values of Pile Loading and Deflection for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 64266.7 lbs
Applied moment at pile head = 95647360.0 in-lbs
Axial thrust load on pile head = 81426.7 lbs

Depth Distrib.	Deflect.	Bending	Shear	slope		=		•	
X Load	•	Moment		S			р		Lat.
feet 1b/inch				radians					
0.00				-0.0180					
0.000 1.125	3.2056	96534141.	64162.	-0.0174	0.000	2.255E+12	-20.7616	29.1446	
0.000	2,9747	97417179.	63871,	-0.0168	0.000	2.199E+12	-21.5391	32.5836	
0.000	2.7518	98295634.	63584.	-0.0162	0.000	2.145E+12	-20.9871	34.3200	
0.000 4.500	2.5373	99088892.	48269.	-0.0156	0.000	2.099E+12	-1377.8478	2443.6782	
0.000 5.625	2.3314	99630388.	29335.	-0.0149	0.000	2.057E+12	-1426.6115	2753.6413	
0.000 6.750	2.1343	99911221.	9769.3073	-0.0143	0.000	2.036E+12	-1471.3708	3102.3140	
0.000 7.875	1,9461	99923224.	-10373.	-0.0136	0.000	2.035E+12	-1511,9956	3496.2077	
0.000	1.7669	99658996.	-31034.	-0.0129	0.000	2.055E+12	-1548.3286	3943.3826	
0.000 10.125	1.5965	99111927.	-52156.	-0.0123	0.000	2.098E+12	~1580,1707	4454.0155	
0.000 11.250	1.4347	98276234.	<del>-</del> 73676.	-0.0117	0.000	2.146E+12	-1607.2627	5041.2368	
0.000 12.375	1.2813	97147008.	~95528.	-0.0111	0.000	2.215E+12	-1629.2736	5722.2770	
0.000 13.500	1.1358	95720270.	-119419.	-0.0105	0.000	2.302E+12	-2436.0413	9651.4794	
0.000 14.625	0.9979	93824832.	-165727.	-0.009944	0.000	2.399E+12	-3626.5259	16353.	
0.000 15.750	0.8672	91268059.	-214584.	-0.009436	0.000	2.518E+12	-3609.4126	18730.	
0.000 16.875	0.7430	88053146.	-263107.	-0.008965	0.000	2.633E+12	~3576.5588	21661.	
0.000	0.6249	84186164.	-311061.	-0.008532	0.000	2.726E+12	-3524.6599	25380.	
0.000 19.125	0.5125	79676674.	-358159,	-0.008129	0.000	2.766E+12	-3448.8748	30281.	
0.000 20.250	0.4054	74538620.	-404032.	-0.007753	0.000	2.776E+12	-3341.7313	37098.	
0.000 21.375	0.3031	68791724.	-448178.	-0.007405	0.000	2.787E+12	-3190.4622	47372.	
0.000 22.500	0.2053	62463914.	-489849.	-0.007088	0.000	2.801E+12	~2969.7256	65099.	
0.000 23.625	0.1116	55596258.	-527739.	-0.006804	0.000	2.819E+12	-2614.4677	105462.	
0.000 24.750	0.0214	48256843.	-558405.	-0.006556	0.000	2.842E+12	-1773.5690	372504.	
0.000 25.875 0.000	-0.0656	40769838.	-541427.	-0.006346	0.000	2.874E+12	2402.9121	164799.	

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                                                            0.000 1.849E+13 3028.0103
   27.000
             -0.1507 33705567.
                                   -504448.
                                             -0.006292
                                                                                            90399.
0.000
   28,125
                                   -460526. -0.006270
             -0.2355 27190826.
                                                            0.000 1.854E+13 3463.3828
                                                                                            66175.
0.000
    29.250
             -0.3200 21300892.
                                   -412319. -0.006252
                                                            0.000 1.859E+13 3724.2199
                                                                                            52366.
0.000
             -0.4043 16089133.
                                  -359985. -0.006239
                                                                                            44787.
   30.375
                                                            0.000 1.863E+13 4024.3143
0.000
    31.500
             -0.4885 11578447.
                                   -309779. -0.006229
                                                            0.000 1.867E+13 3750.3545
                                                                                            34548.
0.000
   32.625
             -0.5725
                       7751042.
                                   -257655. -0.006222
                                                            0.000 1.869E+13 3969.7717
                                                                                            31202.
0.000
    33.750
             -0.6565
                       4646968.
                                   -202649. -0.006217
                                                            0,000 1,872E+13 4177,7044
                                                                                            28637.
0.000
    34.875
             -0.7404
                       2304160.
                                   -144898. -0.006215
                                                            0.000 1.872E+13 4376.9913
                                                                                            26602.
0.000
   36.000
             -0.8243
                        758967.
                                   -84502. -0.006214
                                                            0,000 1.872E+13 4569.5793
                                                                                            24946.
0.000
   37.125
             -0.9082
                         46508.
                                   -21544. -0.006214
                                                            0.000 1.872E+13 4756.8591
                                                                                            23570.
0,000
```

\* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

#### Output Summary for Load Case No. 1:

```
Pile-head deflection = 3.4443856 inches
Computed slope at pile head = -0.0179668 radians
Maximum bending moment = 99949566. inch-lbs
Maximum shear force = -559260. lbs
Depth of maximum bending moment = 7.5000000 feet below pile head
Number of iterations = 170
Number of zero deflection points = 1
```

### Summary of Pile Response(s)

#### Definitions of Pile-head Loading Conditions:

```
Load Type 1: Load 1 = Shear, lbs, and Load 2 = Moment, in-lbs
Load Type 2: Load 1 = Shear, lbs, and Load 2 = Slope, radians
Load Type 3: Load 1 = Shear, lbs, and Load 2 = Rotational Stiffness, in-lbs/radian
Load Type 4: Load 1 = Top Deflection, inches, and Load 2 = Moment, in-lbs
Load Type 5: Load 1 = Top Deflection, inches, and Load 2 = Slope, radians
```

	Pile-head	Pile-head			Maximum	Maximum
Load Load Pile-head	Condition 1	Condition 2	Axial	Pile-head	Moment	Shear
Case Type Rotation	V(lbs) or	in-lb, rad.,	Loadi ng	Deflection	in Pile	in Pile
No. No. radians	y(inches)	or in-lb/rad.	lbs	inches	in-lbs	1bs
1 1 -0.01796675	V = 64267.	M = 95647360.	81427.	3.44438557	99949566.	-559260.

The analysis ended normally.

# 1805.7.2.1 (2006 IBC) & 1807.3.2.1 (2009 IBC & 2012 IBC)

# $d = A/2*(1+(1+(4.36*h/A))^0.5)$

# Monopole

Moment (ft-k)	5977.96
Shear (k)	48.2
Caisson Diameter, b (ft)	8
Caisson Height Above Ground (ft)	0.5
Caisson Height Below Ground (ft)	29
Lateral soil pressure per foot (lb/ft <sup>3</sup> )	300

Applied lateral force, P (lbs)	48200
Dist. from ground to application of P, h (ft)	124.52
A = 2.34*P/(S1*b)	4.86
Min. Depth of Embedment Required, d (ft)	28.23

# MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES

170' Monopole BOONE COUNTY Battle School, MO (16-2545-MEG) 9-1-15 BD

Overall Loads:			
Factored Moment (ft-kips)	5977.96		
Factored Axial (kips)	61.07		
Factored Shear (kips)	48.2		
Bearing Design Strength (ksf)	4.5	Max. Net Bearing Press. (ksf)	4.01
Water Table Below Grade (ft)	28	Allerrada Desire Duserres (lest)	0.00
Width of Mat (ft)	28	Allowable Bearing Pressure (ksf)	3.00
Thickness of Mat (ft)	1.75	Safety Factor	2.00
Depth to Bottom of Slab (ft)	18	Ultimate Bearing Pressure (ksf) Bearing Фs	0.75
Quantity of Bolts in Bolt Circle Bolt Circle Diameter (in)	66.75	bearing $\Phi s$	0.75
Top of Concrete to Top	00.73		
of Bottom Threads (in)	60		
Diameter of Pier (ft)	8	Minimum Pier Diameter (ft)	7.06
Ht. of Pier Above Ground (ft)	0.5	Equivalent Square b (ft)	7.09
Ht. of Pier-Below Ground (ft)	4.25	Equitation Equation (it)	. 150
Quantity of Bars in Mat	44		
Bar Diameter in Mat (in)	1.128		
Area of Bars in Mat (in <sup>2</sup> )	43.97		,
Spacing of Bars in Mat (in)	7.65	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	38	, , , , , , , , , , , , , , , , , , ,	
Bar Diameter in Pier (in)	1.128		
Tie Bar Diameter in Pier (in)	0.625		
Spacing of Ties (in)	12		
Area of Bars in Pier (in <sup>2</sup> )	37.97	Minimum Pier A <sub>s</sub> (in <sup>2</sup> )	36.19
Spacing of Bars in Pier (in)	7.24	Recommended Spacing (in)	6 to 12
f'c (ksi)	4.5	riccommended opdoing (iii)	0 10 12
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.12		
Unit Wt. of Concrete (kcf)	0.15		
Other Wit. of Gotherete (RGI)	0.10		
Volume of Concrete (yd <sup>3</sup> )	59.66		
Two-Way Shear Action:	30,00		
Average d (in)	16.872		
$\phi V_{c}$ (kips)	1331.5	V <sub>u</sub> (kips)	103.2
$\phi V_c = \phi (2 + 4/\beta_c) f'_c^{1/2} b_o d$	2046.8	· II (MPO)	100.2
$\phi V_c = \phi(\alpha_s d/b_o + 2) f_c^{1/2} b_o d$	1331.5		
$\phi V_{c} = \phi 4 f_{c}^{1/2} b_{o} d$			
	1364.5		
Shear perimeter, $b_o$ (in)	354.60		
$eta_{ extsf{c}}$	1		
One-Way Shear:			
AM (Gran)	040.5	V (kina)	401.5
$\phi V_c$ (kips)	646.5	$V_u$ (kips)	401.5
Stability:	0.400.0	T-4-1 0 - 12 - 134 /fr 10	0004.0
Overturning Design Strength (ft-k)	8400.6	Total Applied M (ft-k)	6291.3

# Pier Design:

φV <sub>n</sub> (kips)	844.3	V <sub>u</sub> (kips)	48.2
$\phi V_c = \phi 2(1 + N_u/(2000A_g))f'_c^{1/2}b_w d$	844.3	•	
V <sub>s</sub> (kips)	0.0	*** $V_s$ max = 4 $f'_c$ $^{1/2}b_w$ d (kips)	1978.3
Maximum Spacing (in)	7.62	(Only if Shear Ties are Required)	
Actual Hook Development (in)	15.74	Req'd Hook Development I <sub>dh</sub> (in)	14.12
		*** Ref. To Spacing Requirements ACI	11.5.4.3

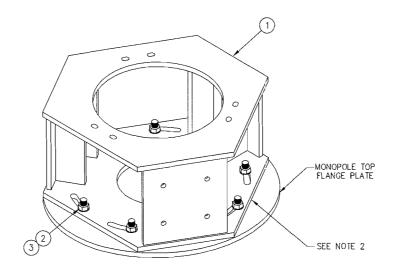
# Flexure in Slab:

φM <sub>n</sub> (ft-kips)	3135.3	M <sub>u</sub> (ft-kips)	2984.7
a (in)	2.05		
Steel Ratio	0.00776		
$\beta_1$	0.825		
Maximum Steel Ratio (pt)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	122.46	Required Development in Pad (in)	28.68

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram Visual Check	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overturning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1



	C10001001 LIST OF MATERIAL							
ITEM	ITEM QTY. PART NO. DESCRIPTION							
1.	1	CW00222	WELDMENT, HUB ASSEMBLY	320.1#				
2.	0	C40026047	BOLT ASSEMBLY, 3/4"Ø X 3"	7.2#				
3	9	C40031004	FLATWASHER, 3/4 Ø HARDENED ASTM F436	0.4#				
			TOTAL WEIGHT BLACK	327.4#				
			TOTAL WEIGHT GALV.	340.1#				



ISO\_VIEW

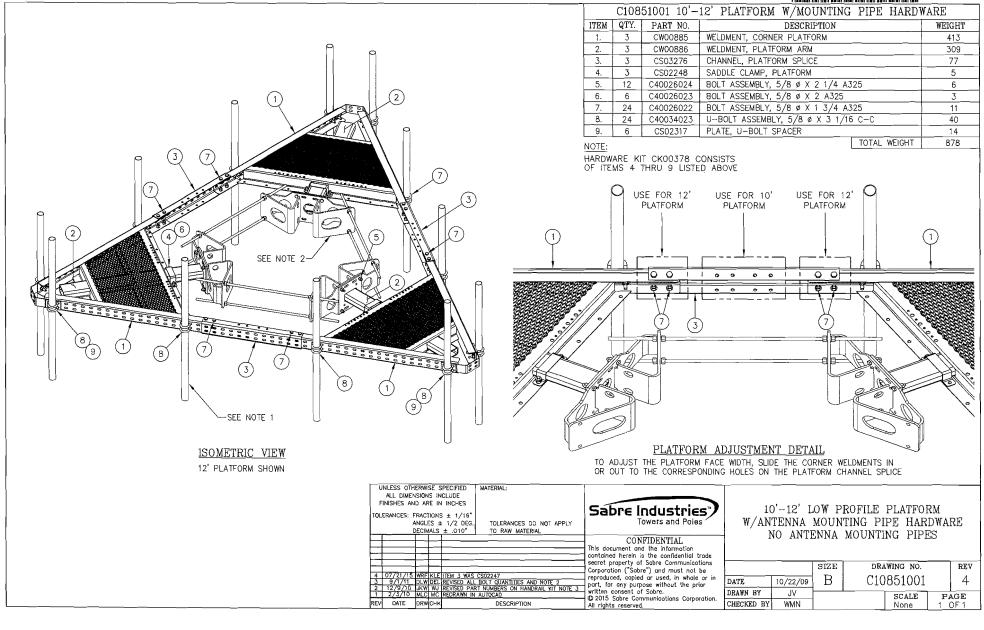
# NOTES:

- DO NOT REMOVE MORE THAN FOUR BOLTS AT ONE TIME WHEN ROTATING HUB ASSEMBLY.
   ROTATE HUB ASSEMBLY UNDER A NO WIND CONDITION ONLY.
- 2. COAT MATCHING SIDES OF PLATES WITH ONE COAT OF GRAPHITE DRY LUBRICANT.
- 3. FLATWASHERS TO BE USED OVER ALL SLOTTED HOLES.

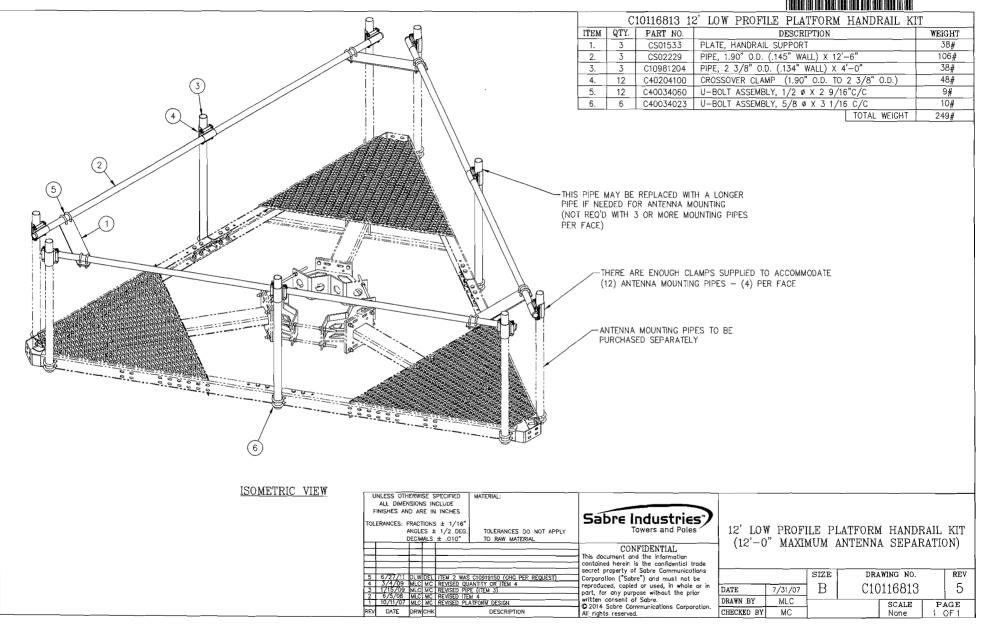
F	NLESS OTH ALL DIMEI INISHES AM	AOIZI AA GI	IS IN	CLUDE	MATERIAL:		Sabre Industries	
,		ANGL	ES ±	1/2 DEG. ± .010"	TOLERANCES CO NOT TO RAW MATERIAL	APPLY	Towers and Poles	
							CONFIDENTIAL This document and the information contained herein is the confidential trade	
							secret property of Sabre Communications Corporation ("Sobre") and must not be	
		E					reproduced, copied or used, in whole or in port, for any purpose without the prior	DATE
1	8/3/05	KLE	ELK	ADDED IT	EM #3 (3/4 Ø FLATWASHERS	1	written consent of Sabre. © 2014 Sobre Communications Corporation.	DRAWN
REV	DATE	DRW	снк		DESCRIPTION		All rights reserved.	CHECKE

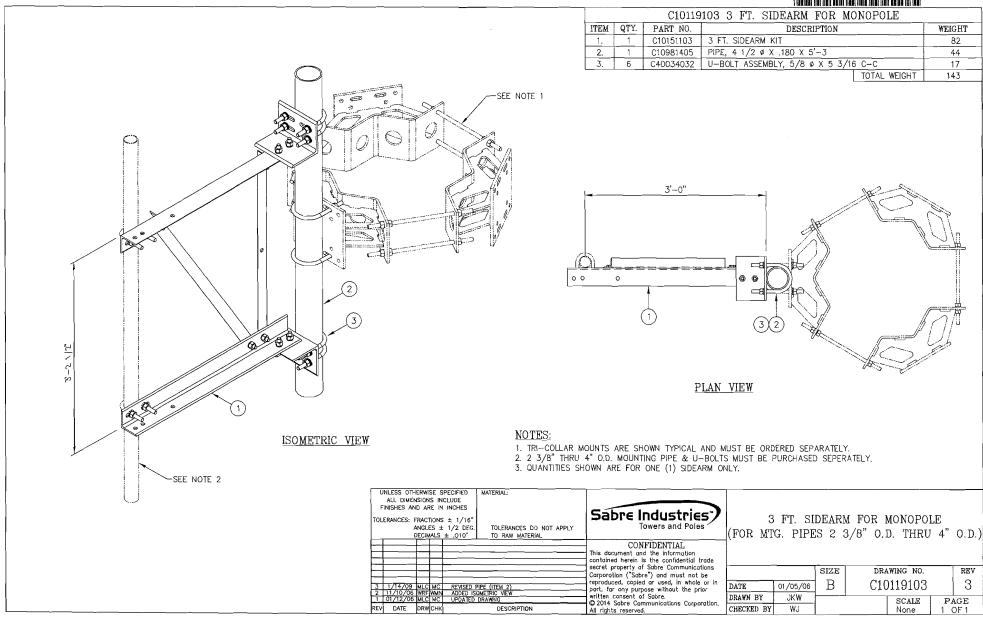
#### HUB ASSEMBLY INSTALLATION

_		SIZE	DRA	WING NO.		REV
DATE 5/06/04		В	C10001001		1	
DRAWN BY	MLC			SCALE	P	AGE
CHECKED BY	MC			None		OF 1



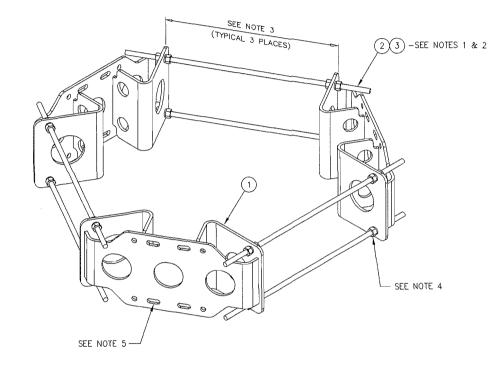








			( CERCARIC COME WALL STATE COME COME COME AND				
C10112300 TRI-COLLAR ASSEMBLY (10"-40" MONOPOLE)							
ITEM	QTY.	PART. NO.	DESCRIPTION	WEIGHT			
1.	3	CW00835	WELDMENT, TRI-COLLAR (10"-40" MONOPOLE)	151			
2.	6	C40094012	THREADED ROD ASSEMBLY 5/8 X 2'-9"	25			
3.	6	C40094002	THREADED ROD ASSEMBLY 5/8 X 1'-6"	17			
			TOTAL WEIGHT	193			



#### NOTES:

- 1. THERE ARE (2) LENGTHS OF THREADED ROD SUPPLIED TO ACCOMMODATE DIAMETERS LISTED BELOW USE 5/8 X 1'-6" THREADED ROD ASSEMBLY FOR 10"-24" MONOPOLE DIAMETERS USE 5/8 X 2'-9" THREADED ROD ASSEMBLY FOR 24"-40" MONOPOLE DIAMETERS (SEE NOTE 2)
- 2. THREADED ROD MAY BE SHORTENED IF REQUIRED, FIELD CUT AND COLD GALV SPRAY TO SUIT.
- 3. THIS DISTANCE MUST BE EQUAL IN ALL (3) THREE LOCATIONS TO ENSURE THE STRUCTURAL INTEGRITY OF THE THREADED RODS AS WELL AS 120' SEPARATION.
- 4. FOR MONOPOLES 13" DIA. OR SMALLER, ONLY (1) ONE NUT AND (1) ONE LOCKWASHER ARE REQUIRED BETWEEN THE TRI-COLLAR BRACKETS. FOR MONOPOLES LARGER THAN 13" DIA., (2) TWO NUTS AND (2) TWO LOCKWASHERS ARE REQUIRED BETWEEN THE TRI-COLLAR BRACKETS.
- 5. THE MOUNTING SLOTS NOTED WILL ACCOMMODATE 2 3/8"-4 1/2" O.D. MOUNTING PIPES.

#### ISOMETRIC VIEW

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS INCLUDE FINISHES AND ARE IN INCHES	MATERIAL:	Eabre Industries"
TOLERANCES: FRACTIONS ± 1/16" ANGLES ± 1/2 DEG DECIMALS ± .010"	TOLERANCES DO NOT APPLY TO RAW MATERIAL	Sabre Industries  Towers and Poles
		CONFIDENTIAL This document and the information contained herein is the confidential trade secret property of Sobre Communications Corporation ("Sobre") and must not be reproduced, copied or used, in whole or in
2 8/31/10 DLW DEL ADDED 5/8 1 1/6/10 MLC MC REDRAWN II	X 1'-6" THREADED ROD	part, for any purpose without the prior written consent of Sobre.  © 2014 Sabre Communications Corporation.

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TRI-COLLAR BRACKET ASSEMBLY FOR MONOPOLES (10"-40" DIA.) (CIRCUMFERENCE 31.4" TO 125.7")

			SIZE	DRA	WING NO.		REV
	DATE 8/21/09		В	C10112300			2
	DRAWN BY	JV			SCALE	P	AGE
•	CHECKED BY	MLC			None		OF 1

ι	JSER NAME	PASSWORD	
	Forgot Username?	Forgot Password?	LOGIN

Create an Account

Entity Dashboard Sabre Communications Corporation

DUNS: 084621382 CAGE Code: 60348

Status: Active

2101 Murray St Sioux City, IA, S1111-1149 , UNITED STATES

Entity Record

Core Data

Assertions

Reps & Certs
POCs

Reports

Service Contract Report

BioPreferred Report

**Exclusions** 

Active Exclusions

<u>Inactive Exclusions</u>

<u>Excluded Family Members</u>

RETURN TO SEARCH

**Entity Information** 

Name: Sabre Communications Corporation Business Type: Business or Organization POC Name: Phillip Haigler Registration Status: Active Activation Date: 06/10/2015 Expiration Date: 06/09/2016

Exclusions

Active Exclusion Records? No

SAM | System for Award Management 1,0

IBM v1.P.34.20150710-1415

Expiration Date: 06/09/2016

Purpose of Registration: All Awards

**Entity Overview** 

www6

GSA





**Note to all Users:** This is a Federal Government computer system. Use of this system constitutes consent to monitoring at all times.

# **CERTIFIED COPY OF ORDER**

STATE OF MISSOURI
County of Boone

September Session of the July Adjourned

Term. 20 15

In the County Commission of said county, on the

29th

day of

September

20

15

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

Now on this day the County Commission of the County of Boone does hereby set the fees associated with Small On-Site Wastewater Systems as contemplated in Section 4.11 of Boone County's Code of Health Regulations as follows:

Construction permits for existing systems: \$335.00
New construction permits: \$335.00
Existing system evaluation \$30.00

The Commission notes that the fees as set out above are anticipated to cover 49% of the County's costs in administering the County's Small On-Site Wastewater program per the attached estimate prepared by the City/County Health Department, which is incorporated herein by reference. These fees shall have an effective date of January 1, 2016.

Done this 29th day of September, 2015.

ATTEST:

Wendy S. Moren

Clerk of the County Commission

Daniel K. Atwill

Presiding/Commissioner

Karen M. Miller

District I Commissioner

Janet M. Thompson

District II Commissioner

# FY 16 County Sewage Fee Increase Proposal and Cost Recovery

	Number of Permits Issued	Existing Fee	New Fee	Fee Increase	Total Revenue
Construction Permits on New or					
Existing systems	152	225	335	110	50920

(10% Fee increase)

Total Cost = 105 260

Additional projected revenue due to evaluations of existing systems =

we only did 20 existing evaluations 500 in 2014

Percent of costs covered including fee increase =

49

# of permits based on average of new and existing permits in 2011, 2012, 2013 and 2014

# **CERTIFIED COPY OF ORDER**

STATE OF MISSOURI

September Session of the July Adjourned

Term. 20 15

**County of Boone** 

In the County Commission of said county, on the

29th

day of

September

20

15

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 Government Center Conference Room 301 by the Department of Mental Health for December 2, 2015 from 9:00 a.m. to 2:00 p.m.

Done this 29th day of September, 2015.

ATTEST:

Clerk of the County Commission

Daniel K. Atwill

Presiding Commissioner

Karen M. Miller

District I Commissioner

Janet M. Thompson

District II Commissioner



Boone County Government Center 801 East Walnut, Room 333 Columbia, MO 65201-7732 573-886-4305 • FAX 573-886-4311

# **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: Department of Mental Health (DMH)
Address: 1706 E. Elm St.
City: Jefferson CityState: MO ZIP Code 65101
Phone: <u>573-751-7249</u> Website:
Individual Requesting Use: Melanie Bullard, RD, LD Position in Organization: Dietetic Services Coordinator
Facility requested: ☐ Chambers X☐ Room 301 ☐ Room 311 ☐ Room 332 ☐ Centralia Clinic
Event: DMH Dietetic Services Quarterly Meeting
Description of Use (ex. Speaker, meeting, reception): Business Meeting
Date(s) of Use: 12/02/2015 - Wednesday
Start Time of Setup: 9:00 a.mAM/PM Start Time of Event: 10:00 a.m.
End Time of Event: 2:00 p.mAM/PM End Time of Cleanup:2:00 p.m
<ol> <li>To abide by all applicable laws, ordinances and county policies in using Boone County Government conference rooms.</li> <li>To remove all trash or other debris that may be deposited (by participants) in rooms by the organizational use.</li> <li>To repair, replace, or pay for the repair or replacement of damaged property including carpet and furnishings in rooms.</li> <li>To conduct its use in such a manner as to not unreasonably interfere with Boone County Government building functions.</li> <li>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.</li> </ol>
Organization Representative/Title: Melanie Bullard, RD, LD, DMH Dietetic Services Coordinator
Phone Number: 573-751-7249 Date of Application: 09/24/2015
Email Address: melanie.bullard@dmh.mo.gov  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:  BOONE COUNTY, MISSOURI  County Clerk  9-29-15  BOONE COUNTY, MISSOURI  County Commissioner