

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

In the County Commission of said county, on the 24th day of November 20 15

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

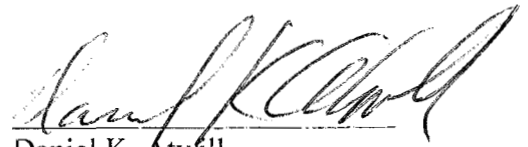
Now on this day the County Commission of the County of Boone does hereby award bid 72-05NOV15 – Tower Foundation and Site Work for Battle School to McGilton Construction Co., Inc. of Parkville, MO.

The terms of the bid award are stipulated in the attached Agreement. It is further ordered the Presiding Commissioner is hereby authorized to sign said Contract Agreement.

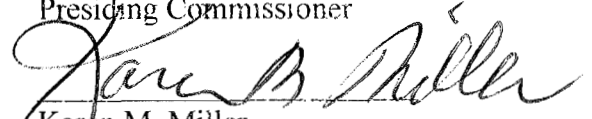
Done this 24th day of November, 2015.

ATTEST:

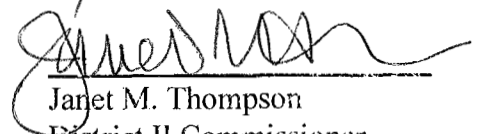
Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Karen M. Miller
District I Commissioner



Janet M. Thompson
District II Commissioner

Boone County Purchasing

Melinda Bobbitt, CPPO, 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: November 18, 2015
RE: Bid Award Recommendation: *72-05NOV15 – Tower Foundation and Site Work for the Battle*

Request for Bid *72-05NOV15 – Tower Foundation and Site Work for Battle* closed on November 5, 2015. Four bids were received. Dave Dunford, our Radio Consultant, recommends award to McGilton Construction Co., Inc. of Parkville, Missouri for offering the lowest and best bid.

Contract award is \$59,362.00 and will be paid from department 2704 – Joint Comm Radio Network, Account 91300 – Machinery & Equipment. \$70,000 was estimated by our radio consultant.

ATT: Bid Tab

cc: Bid File
Karen Miller, Commission
Dave Dunford, Radio Consultant
Chad Martin, Patricia Schreiner, Joint Communications

BID TABULATION: 72-05NOV15 - TOWER FOUNDATION AND SITE WORK FOR BATTLE

Item #	Description	Engineer's Estimate	McGilton Construction Company	Western Towers	Mercury Communications & Construction	McAfee Construction, Inc.
4.01.	Radio Tower Foundation and Site Work for Battle School per RFB	\$70,000.00	\$59,362.00	\$87,770.00	\$71,155.00	\$110,477.00
4.02.	How many days after Notice to Proceed will work begin?		20	45	5	21
4.03.	How many days after Notice to Proceed will work be completed?		15	90	30	42
4.04.	List Subcontractors Name, Address, and Work Assigned.		Hayes Drilling	No Response	Depp Foundation, LLC, Tennessee	iffini Drilled Foundations, C.W. Hamilton, Excavation

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into by and between the County of Boone through the Boone County Commission (hereinafter referred to as the Owner), and **McGilton Construction Co., Inc.** (hereinafter referred to as the Contractor).

WITNESSETH: That for and in consideration of the acceptance of Contractor's bid and the award of this contract to said Contractor by the Owner and in further consideration of the agreements of the parties herein contained, to be well and truly observed and faithfully kept by them, and each of them, it is agreed between the parties as follows, to wit:

The Contractor at his own Expense hereby agrees to do or furnish all labor, materials, and equipment called for in the bid designated and marked:

**BID NUMBER 72-10NOV15
TOWER FOUNDATION AND SITE WORK FOR BATTLE
BOONE COUNTY, MISSOURI**

and agrees to perform all the work required by the contract as shown in the bid document. The contract award shall be for providing all required materials, supplies, equipment, tools and plant; to provide and perform all necessary labor and supervision; and to install, erect, equip, and complete Tower Foundation and Site Work for Fifty Nine Thousand Three Hundred Sixty Two Dollars (\$59,362.00).

Contractor agrees to begin the work within 20 days after receipt of Notice to Proceed and complete the above work within 15 days after receipt of Purchase Order and Notice to Proceed from the Purchasing Department.

The following contract documents and any applicable Addenda are made a part hereof as fully as if set out herein: Change orders issued subsequent to this contract shall be subject to the terms and conditions of the agreement unless otherwise specified in writing.

Introduction and General Conditions of Bidding

Primary Specifications

Response Presentation and Review

Response Form

Statement of Bidder's Qualifications

Standard Terms and Conditions

Work Authorization Certification

Debarment Certification

Anti-Collusion Statement

Signature and Identify of Bidder

Bidder's Acknowledgment

Annual Wage Order #22, dated 10/20/15

Insurance Requirements

Bid Bond

Performance Bond, bonds must be filled out and returned within 15 days of the date of this contract.

Labor and Material Payment Bond, bonds must be filled out and returned within 15 days of the date of this contract.

Affidavit of Compliance with OSHA

Affidavit of Compliance with Prevailing Wage Law
McGilton Construction Co., Inc. Bid Response dated 11/3/15

The Contractor agrees that he is fully informed regarding all of the conditions affecting the work to be done, and labor and materials to be furnished for the completion of this contract, and that his information was secured by personal investigation and research and not from any estimates of the Owner; and that he will make no claim against the Owner by reason of estimates, tests, or representation of any officer, agent, or employees of the Owner.

The said Contractor agrees further to begin work not later than the authorized date in the Notice to Proceed, and to complete the work within the time specified in the contract documents or such additional time as may be allowed by the Project Manager under the contract.

The work shall be done to complete satisfaction of the Owner and, in the case the Federal Government or any agency thereof is participating in the payment of the cost of construction of the work, the work shall also be subject to inspection and approval at all times by the proper agent or officials of such government agency.

The parties hereto agree that this contract in all things shall be governed by the laws of the State of Missouri.

Contractor agrees it will pay not less than the prevailing hourly rate of wages to all workers performing work under the contract in accordance with the prevailing wage determination issued by the Division of Labor Standards of the Department of Labor and Industrial Relations for the State of Missouri and as maintained on file with Boone County Facilities Maintenance Department.

The Contractor further agrees that it shall forfeit as a penalty to the County of Boone the sum of \$100.00 for each worker employed for each calendar day or portion thereof such worker is paid less than the stipulated rates set forth in the prevailing wage determination for the project for any work done under this contract by the Contractor or by any Subcontractor employed by the Contractor pursuant to the provisions of Section 290.250 RSMo. The Contractor further agrees that it will abide by all provisions of the prevailing wage law as set forth in Chapter 290 RSMo. and rules and regulations issued thereunder and that any penalties assessed may be withheld from sums due to the Contractor by the Owner.

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

The Contractor expressly warrants that he/she has employed no third person to solicit or obtain this contract in his behalf, or to cause or procure the same to be obtained upon compensation in any way contingent, in whole or in part, upon such procurement; and that he has not paid, or promised or agreed to pay to any third person, in consideration of such procurement, or in compensation for services in connection therewith, any brokerage, commission or percentage upon the amount receivable by him hereunder; and that he has not, in estimating the contract price demand by him, included any sum by reason of such brokerage, commission, or percentage; and that all moneys payable to him hereunder are free from obligation of any other person for services rendered, or supposed to have been rendered, in the procurement of this contract. He further agrees that any breach of this warranty shall constitute adequate cause for the annulment of this contract by the Owner, and that the Owner may retain to its own use from any sums due to or to become due hereunder an amount equal to any brokerage, commission, or percentage so paid, or agreed to be paid.

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

The Owner agrees to pay the Contractor in the amount:

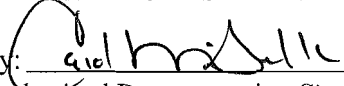
Fifty Nine Thousand Three Hundred Sixty Two Dollars and Zero Cents (\$59,362.00)

as full compensation for the performance of work embraced in this contract, subject to the terms of payment as provided in the contract documents and subject to adjustment as provided for changes in quantities, any delays in project completion and approved change orders.

IN WITNESS WHEREOF, the parties hereto have signed and entered this agreement on 11-24-15
at Columbia, Missouri. (Date)

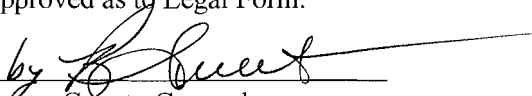
CONTRACTOR:
MCGILTON CONSTRUCTION CO., INC.

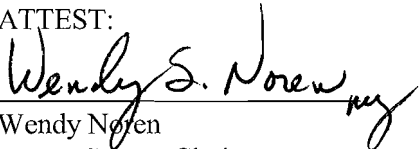
OWNER:
BOONE COUNTY, MISSOURI

By: 
Authorized Representative *Signature*

By: 
Daniel K. Atwill, Presiding Commissioner

By: Carol H. Gilton
Authorized Representative *Printed Name*
Title: president

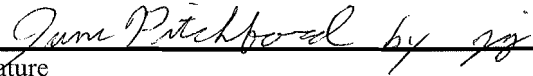
Approved as to Legal Form:

Boone County Counselor

ATTEST:

Wendy Noyen
Boone 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 the contract do not create a measurable county obligation at this time.)

2704-91300- \$59,362.00

 by jjj 11/19/2015
Signature Date Appropriation Account

AFFIDAVIT COMPLIANCE WITH THE PREVAILING WAGE LAW

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

State of _____, personally came and appeared (name and title)

_____ of the (name of company)

_____ (a corporation) (a partnership) (a proprietorship)

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

(name of project) _____ located at

(name of institution) _____ in _____ County,

Missouri and completed on the _____ day of _____, 20_____.

Signature

Subscribed and sworn to me this _____ day of _____, 20_____.

My commission expires _____, 20_____.

Notary Public

4. Response Form

Company Name: McGilton Construction Co Inc
 Address: 13015 NW Crooked Rd
 City/Zip: Parkville MO 64152
 Phone Number: 816 741-6161
 E-Mail: carol@mcgiltonconst.com
 Fax Number: 816 587-1762

Federal Tax I.D. 43-1669423
 Corporation
 Partnership – Name _____
 Individual/Proprietorship – Individual Name _____
 Other (Specify) _____

4.00 PRICING

4.01. Radio Tower Foundation and Site Work for Battle School per the requirements stated herein.

Fifty nine thousand three hundred sixty two DOLLARS and 00 CENTS
 (Quoted cost in print) \$ 59,362.00 /LUMP SUM

4.02. Work will begin on project 20 days after receipt of Notice to Proceed.

4.03 Work will be completed 15 days after receipt of Notice to Proceed.

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

<u>Subcontractor Name/Address</u>	<u>Work Assigned</u>
<u>Hayes Drilling</u>	<u>drilling</u>
_____	_____

4.05. Return with your bid response the following:

- Any addenda
- Response Form
- Statement of Bidder's Qualifications
- Work Authorization Certification
- Debarment Certification
- Anti-Collusion Statement
- Signature and Identity of Bidder
- Bidder's Acknowledgment
- Bid Bond (if bid response is \$50,000 or more)

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

Authorized Representative (Sign By Hand):

Carol McGilton Date: 11/3/15

Print Name and Title of Authorized Representative:

Carol McGilton

Bid Prepared by: **McGilton Construction Company Inc.**
 Site Name: **Boone Co**
 Date of Bid: **11/3/15**

Item	Building System	Labor	Materials	Total	Remarks
1	Permitting				
	City			\$0.00	
	Electrical			\$0.00	
	Total Item 1	\$0.00	\$0.00	\$0.00	
2	Supervision and Coordination				
	Supervisor			\$0.00	
	Coordinate truck			\$0.00	
	Total Item 2	\$0.00	\$0.00	\$0.00	
3	Cost of Demolition, (Exist. Facility)				
	Scrap Recovery			\$0.00	
	Waste Recovery			\$0.00	
	Scrap Transportation			\$0.00	
	3a			\$0.00	
	3b			\$0.00	
	3c			\$0.00	
	Total Item 3	\$0.00	\$0.00	\$0.00	
4	Road, Parking & Compound				
	Gravel	\$3,500.00	\$2,420.00	\$5,920.00	70 tons
	Pavement			\$0.00	
	4a			\$0.00	
	Matting	\$300.00	\$650.00	\$950.00	
	Total Item 4	\$3,800.00	\$3,070.00	\$6,870.00	
5	Site Improvements				
	Retaining Walls			\$0.00	
	Rock			\$0.00	
	Timbers			\$0.00	
	PVC Conduits for UG Coax			\$0.00	
	5a			\$0.00	
	5b			\$0.00	
	Total Item 5	\$0.00	\$0.00	\$0.00	
6	Tower Foundation				
	Drill Rig/Excavation	\$17,800.00		\$17,800.00	
	Concrete	\$6,000.00	\$9,720.00	\$15,720.00	
	Rebar	\$3,776.00	\$6,000.00	\$9,776.00	
	6a			\$0.00	
	Total Item 6	\$27,576.00	\$15,720.00	\$43,296.00	
7	Building Foundation				
	Excavation			\$0.00	
	Rebar			\$0.00	
	Concrete			\$0.00	
	Stoop	\$400.00	\$400.00	\$800.00	
	Total Item 7	\$400.00	\$400.00	\$800.00	
8	Cost of Crane for Shelter/Tower				
	Set Shelter			\$0.00	
	Set Tower			\$0.00	
	Set & Hook-up			\$0.00	
	Total Item 8	\$0.00	\$0.00	\$0.00	

9 Tower Construction

Monopole			\$0.00
Self-Support			\$0.00
Guyed			\$0.00
9a			\$0.00
Total Item 9	\$0.00	\$0.00	\$0.00

10 Antenna & Coax Install

Antenna & coax installation			\$0.00
Fiber Testing			\$0.00
Sweep/PIM Testing			\$0.00
10a			\$0.00
Total Item 10	\$0.00	\$0.00	\$0.00

11 Metals

Antenna Mounts/Platform			\$0.00
Ice Bridge			\$0.00
11a			\$0.00
11b			\$0.00
Total Item 11	\$0.00	\$0.00	\$0.00

12 Electrical

Electric			\$0.00
TELCo			\$0.00
Electric Utility's Construction Cost			\$0.00
TELCo Utility's Construction Cost			\$0.00
Permits			\$0.00
Grounding System (Rods, lugs, etc..)			\$0.00
Ground Test			\$0.00
Trenching/Backfill/Compaction			\$0.00
12a			\$0.00
Total Item 12	\$0.00	\$0.00	\$0.00

13 Fencing & Bollards

Fencing			\$0.00
Bollards			\$0.00
13a			\$0.00
Total Item 13	\$0.00	\$0.00	\$0.00

14 Painting

Shop			\$0.00
Field			\$0.00
14a			\$0.00
Total Item 14	\$0.00	\$0.00	\$0.00

15 Ice Shield (Over Shelter)

15a			\$0.00
15b			\$0.00
Total Item 15	\$0.00	\$0.00	\$0.00

16 Generator

Pad (Concrete, rebar, etc...)			\$0.00
Crane/set cost			\$0.00
Electrical costs			\$0.00
Fuel Costs			\$0.00
Propane Pad	\$900.00	\$600.00	\$1,500.00
16b			\$0.00
Total Item 16	\$900.00	\$600.00	\$1,500.00

17 Landscaping					
Fill Dirt				\$0.00	
Black Dirt				\$0.00	
Weed Barrier				\$0.00	
Sod				\$0.00	
Seed				\$0.00	
Trees & Shrubs				\$0.00	
Restore site				\$0.00	
17a				\$0.00	
Total Item 17	\$0.00	\$0.00		\$0.00	
18 Shelter Construction (Stick Build)					
18a				\$0.00	
18b				\$0.00	
18c				\$0.00	
18d				\$0.00	
Total Item 18	\$0.00	\$0.00		\$0.00	
19 Environmental					
Administration				\$0.00	
Travel	\$900.00			\$900.00	
Expenses	\$600.00			\$600.00	
Freight				\$0.00	
Special Inspection				\$0.00	
19b				\$0.00	
Total Item 19	\$1,500.00	\$0.00		\$1,500.00	
20 Miscellaneous					
Dumpster, Toilet, Trash Removal				\$0.00	
Lockset changeout				\$0.00	
Survey / Site Staking				\$0.00	
ASR Signage				\$0.00	
MSAT Install				\$0.00	
Bonding				\$0.00	
20b				\$0.00	
20c				\$0.00	
Total Item 20	\$0.00	\$0.00		\$0.00	
21 Sub Totals	LABOR	MATERIAL			Just shows a total of L & M, is not added in cell E158
	\$34,176.00	\$19,790.00			Your total O&P - this will be included in the total base construction amount below.
22 Overhead & Profit	\$3,417.00	\$1,979.00		\$5,396.00	
Total Base Construction				\$59,362.00	Totals all cells highlighted yellow
Cost of all Applicable Taxes				\$0.00	
Total Contract Amount				\$59,362.00	

Where Other is indicated, fill in applicable job/construction type

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: McGilton Construction Co., Inc.
2. Business Address: 13015 NW Crooked Rd Parkville MO 64152
3. When Organized: 1977
4. When Incorporated: 3/1/94 5. List federal tax identification number: 43-1669423
If not incorporated, state type of business (sole proprietor, partnership, or other) _____
6. Number of years engaged in business under present firm name: 21
7. If you have done business under a different name, please give name and business location under that name: _____
8. Percent of work done by own staff: 100%
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 sheet
12. List of projects currently in progress: see attached sheet

*** Attach additional sheets as necessary ***

McGilton Construction Company Inc.

State of Missouri, Woman-Owned Business Enterprise, WO3591

City of Kansas City, MO Woman Business Enterprise (WBE) NAICS 237130, 238910, 238110, 561210

State of Kansas, Woman Business Enterprise (WBE) NAICS 237130, 238910, 238110, 561210

13015 North Crooked Road, Parkville, Missouri 64152

(816) 741-6161 phone (816) 587-1762 fax Carol@mcgiltonconst.com



Similar Projects completed in the last three years

	Project Value
2012	
• Verizon-Sherlock, 1305 E 104 th St. Kansas City, MO 64131.....	\$ 60,998.00
• Verizon-Glendale, 39185 Elm Trail Rd. Unionville, MO 63565.....	\$ 153,699.00
• Verizon-Hollister, 204 E Main St. Branson, MO 65616.....	\$ 454,077.00
2013	
• Verizon-Kissee Mills, 464 Church Camp Rd. Taneyville, MO 65759.....	\$ 189,140.00
• Verizon-Zona Rosa, 7505 NW Old Tiffany Springs Rd. Kansas City, MO 64153....	\$ 97,891.00
• Crown Castle-Whiteman AFB, 51 SE HWY 23 Knob Noster, MO 65336.....	\$ 72,099.00
2014	
• Verizon- Parkville DT, 819 Main St. Parkville, MO 64152.....	\$ 177,319.00
• Verizon-Lincoln City, 20930 HWY H Lincoln, MO 65338.....	\$ 170,423.00
• Crown-Smithville DT, 1098 S US HWY 169 Smithville, MO 64089.....	\$ 77,703.00

Projects currently in Progress

2015	
• Crown-Garden City, 31117 S County Rd F Garden City, MO 64747.....	\$ 106,578.00
• Verizon- 18 th & Troost, 1119 E 21 st St. Kansas City, MO 64108.....	\$ 64,376.00
• Verizon-Fishing River, 9202 NE 112 th St. Kansas City, MO 64157.....	\$ 52,638.00



Company ID Number: 352685

THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION
MEMORANDUM OF UNDERSTANDING

ARTICLE I

PURPOSE AND AUTHORITY

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

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

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF SSA

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

Company ID Number: 352685

North American Industry Classification Systems Code:	238
Parent Company:	
Number of Employees:	10 to 19
Number of Sites Verified for:	1
Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State:	
<ul style="list-style-type: none">MISSOURI 1 site(s)	

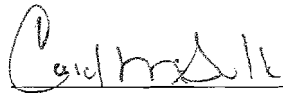
Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

Name:	Carol S McGilton	Fax Number:	(816) 587 - 1762
Telephone Number:	(816) 741 - 6161		
E-mail Address:	carol@mcgiltonconst.com		

CERTIFICATION OF INDIVIDUAL BIDDER

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

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



Applicant

11/3/15

Date

Carol McGilton

Printed Name

MISSOURI
DRIVER LICENSE

Class
E

License Number **J169130006**


MCGILTON
CAROL SUE
13015 N CROOKED RD
PARKVILLE, MO 64152

Birthdate [REDACTED] Expiration Date **12-07-2017**

Female 5'05" 188 lbs Brown Eyes
Restrictions Endorsements

Carol S. McGilton

169130006



(Please complete and return with Bid)

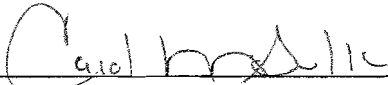
Certification Regarding
Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions

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

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS FOR CERTIFICATION)

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

Carol McGilton president
Name and Title of Authorized Representative


Signature

11/3/15
Date

ANTI-COLLUSION STATEMENT

STATE OF MISSOURI

COUNTY OF Platte

Carol McGilton, being first duly sworn, deposes and

says that he is president
(Title of Person Signing)

of McGilton Construction Co Inc
(Name of Bidder)

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

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

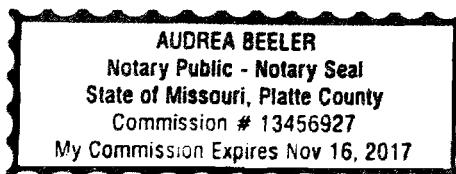
By Carol McGilton By _____

By _____

Sworn to before me this 3RD day of Nov, 20 15

Audrea Beeler
Notary Public

My Commission Expires Nov 16 2017



SIGNATURE AND IDENTITY OF BIDDER

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

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

Dated November 3, 20 15

Name of individual, all partners, or joint venturers:

Address of each:

_____	_____
_____	_____
_____	_____
_____	_____

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

McGilton Construction Co Inc
13015 NW Crooked Rd Parkville MO 64152

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

 (If a corporation – show its name above)

ATTEST:

Andrea Beecher
 (Secretary)

Carol Mitchell
 president
 (Title)

NOTE: If the Bidder is doing business under a FICTITIOUS NAME, the Proposal shall be executed in the legal name of the individual, partners, joint venturers, or corporation, with the legal address shown, and the REGISTRATION OF FICTITIOUS NAME filed with the Secretary of State, as required by Section 417.200 to 417.230, RS Mo. shall be attached. If the Bidder is a CORPORATION NOT ORGANIZED UNDER THE LAWS OF MISSOURI, it shall procure a CERTIFICATE OF AUTHORITY TO DO BUSINESS IN MISSOURI, as required by Section 351.570 and following, RS Mo. A CERTIFIED COPY of such Registration of Fictitious Name or Certificate of Authority to do Business in Missouri shall be filed with the Engineer.

BIDDER'S ACKNOWLEDGMENT

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

State of MO County of Platte

On this 3 day of November, 20 15

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

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

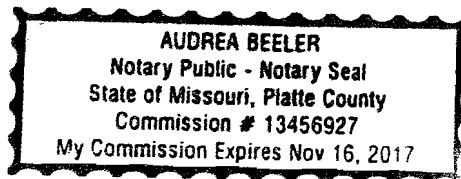
(if a corporation) that he is the president
President or other agent

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

Witness my hand and seal at, 3RD the day and year first above written. (SEAL)

Andrea Beeler Notary Public

My Commission expires Nov 16, 202017



BID BOND

The American Institute of Architects,
AIA Document No. A310 (February, 1970 Edition)

KNOW ALL MEN BY THESE PRESENTS, that we McGilton Construction Co., Inc.

as Principal hereinafter called the Principal, and Merchants Bonding Company

as Surety, hereinafter called the Surety, are held and firmly bound unto Boone County, Missouri

as Obligee, hereinafter called the Obligee, in the sum of -----Five Percent of Amount Bid-----

Dollars (\$ -----5%-----), for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for Tower Foundation and Site Work for Battle School

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 5th day of November, 2015

McGilton Construction Co., Inc.

Principal (Seal)

By: Carl H. Sull president
Name/Title

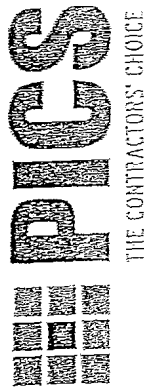
Witness

Merchants Bonding Company

Surety (Seal)

By: Jerry E. Fallen
Jerry E. Fallen Attorney-in-Fact

Ralph Engeman
Witness



March 31, 2015

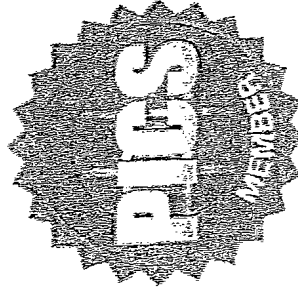
McGilton Construction Co., Inc.

Became a Member of the PICS Consortium on:

2/11/15

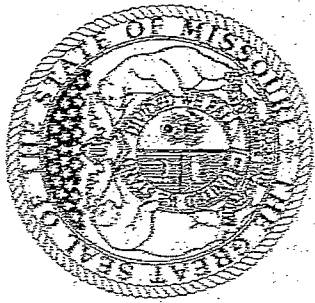
This document certifies that the company above is a Member of the PICS Consortium. This company will be an authorized user of the PICS database, as long as a full PICS membership is maintained.

John D. Moreland
John Moreland, President



JM ct

Jesse Cota, V.P. Operations



State of Missouri
Office of Administration
Office of Equal Opportunity

Doug Nelson
Commissioner of Administration

Celeste Matecalf
Director

This is to certify McGilton Construction Co., Inc. qualifies as a Woman-Owned Business Enterprise that has met the eligibility criteria established by the State of Missouri, Office of Administration.

Celeste Matecalf

Celeste Matecalf, Director, Office of Equal Opportunity

Certification Number W03591 Date of Issue 2/18/2015 Date of Expiration 2/1/2018

CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER: Haas & Wilkerson Insurance, 4300 Shawnee Mission Parkway, Fairway, KS 66205, 913 432-4400. CONTACT NAME: Nicole Winkler, PHONE: 913-676-9233, E-MAIL: nicole.winkler@hwins.com. INSURER(S) AFFORDING COVERAGE: INSURER A: West American Insurance Co (44393), INSURER B: Ohio Casualty Insurance Company (24074), INSURER C: American Fire and Casualty Comp (24066), INSURER D: Hartford Fire Insurance Company (19682).

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Table with columns: INSR LTR, TYPE OF INSURANCE, ADDL INSR, SUBR WVD, POLICY NUMBER, POLICY EFF (MM/DD/YYYY), POLICY EXP (MM/DD/YYYY), LIMITS. Rows include: A GENERAL LIABILITY (BKW1652140803), B AUTOMOBILE LIABILITY (BAO1652140803), B UMBRELLA LIAB (USO1652140803), C WORKERS COMPENSATION AND EMPLOYERS' LIABILITY (XWA1652140803), D Leased/Rented Equipment (37MSNJ7160).

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required) Boone County Purchasing is included as additional insured in regards to General Liability and Automobile Liability as their interest may appear as required by written contract. Policies will be endorsed to provide 30 day notice of cancellation to the certificate holder.

CERTIFICATE HOLDER: Boone County Purchasing, 613 E Ash Street, Room 110, Columbia, MO 65201. CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE: [Signature]



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

REQUEST FOR BID (RFB)

Melinda Bobbitt, CPPO, CPPB
Director of Purchasing
(573) 886-4393 – Fax: (573) 886-4390
Email: mbobbitt@boonecountymo.org

Bid Data

Bid Number: **72-05NOV15**
Commodity Title: **Tower Foundation and Site Work for Battle School**

DIRECT ANY BID FORMAT OR SUBMISSION QUESTIONS TO PURCHASING DEPT.

Bid Submission Address and Deadline

Day/Date: Thursday, November 5, 2015
Time: 1:00 p.m. (Bids received after this time will be returned unopened)
Location/Mail Address: Boone County Purchasing Department
Boone County Annex Building
613 E. Ash, Room 110
Columbia, Mo 65201
Directions: Annex Building is located at corner of 7th & Ash St.

Bid Opening

Day/Date: Thursday, November 5, 2015
Time: 1:30 p.m., Central Time
Location/Address: Boone County Government Center
Commission Chambers
801 E. Walnut Street
Columbia, MO 65201

Bid Contents

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

Bid Contents, continued

Signature & Identify of Bidder

Bidder's Acknowledgement

Annual Wage Order #22, dated 10/20/15

Affidavit of Compliance with OSHA

Affidavit of Compliance with Prevailing Wage Law

"No Bid" Response Form

1. Introduction and General Conditions of Bidding

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

1.2. DEFINITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Primary Specifications

ITEMS TO BE PROVIDED

1.00 GENERAL

1.01 These specifications describe construction work associated with the installation of a new communication facility at the rear of Battle Elementary School, 2600 Battle Avenue, Columbia, MO. The work will consist of the following general components:

- Extending a crushed rock base service drive approximately 150'
- Installing a large drilled concrete pier for a monopole tower foundation
- Installing an LP tank concrete pad
- Installing a shelter step
- Performing minor site grading and trenching
- Restoring site grading to conditions prior to construction work
- Installing gravel over a vegetation barrier around the shelter, tower, and compound area

1.02 Two versions of the tower foundation design are provided by Sabre Industries, the tower fabricator. County shall only accept the single deep drilled pier option for this site.

1.03 Vendor shall provide all materials, services, machinery, and labor to perform the described work.

1.04 All work will adhere to any pertinent standard construction requirements established and published by County of Boone.

1.05 County will be responsible for obtaining local zoning clearances and construction permit.

1.06 Vendor will be responsible for obtaining all permits required for his specific work tasks.

1.07 Following work each day, Vendor will leave the site clear of construction debris, excess material, and unused supplies or equipment, including paper, plastic, metal cans, shipping crates, shipping boxes or any rubbish resulting from the work. Vendor's work site shall be protected from trip and fall hazards.

1.08 Vendor will have free access to the tower site but Vendor will coordinate site access and all work with County's representative.

1.09 Prior to start of work, Vendor must furnish list of all personnel who will be working at site. These personnel must satisfy background checking as required by Columbia Public Schools.

1.10 A special inspector paid by Vendor and chosen by Vendor from an approved list established by Boone County Resource Management shall be responsible for work as specified below:

- Inspecting reinforcing steel, steel cage fabrication, steel placement, and steel embedment within concrete.

- Inspecting concrete delivery, handling, and placement.

- Collecting concrete samples and conducting strength testing as follows:

- One cylinder for 7-day test

- Three cylinders for 28-day test

One cylinder for reserve
Cylinders shall be taken from first mixer load and every third mixer thereafter

1.11 Vendor shall be responsible for coordinating all required inspections. Failure to complete special inspections or regulatory construction inspections shall be grounds for County to reject work and any claims for payment from Vendor.

1.12 Vendor shall furnish copy of delivery ticket for each separate mixer load of material from concrete plant to County's representative or with final invoice.

1.13 Vendor must arrange for portable electrical power if needed for the work.

1.14 Concrete mix to include crushed rock meeting MoDOT aggregate specifications.

2.00 DESIGN

2.01 Refer to drawings ME1 and C1 for general site orientation, tower location, and site construction details.

2.02 Additional information:

Fencing by others

Tower erection by others

Waveguide bridge, antenna, and feedline installation by others

2.03 Refer to drawings from Sabre Industries for details of the tower foundation.

2.04 Refer to the geotechnical report from Crockett Engineering for subsurface conditions.

2.05 Vendor shall work cooperatively with County's representative in preparation of site for installation of additional grounding system. Vendor to provide trenching and backfill for connection of ground conductors to tower foundation steel, tower grounding grid, fence corner posts, and LP tank. Work by others to Cadweld ground wires to reinforcing steel must occur prior to placing concrete.

2.06 Refer to drawing ME1 for construction details of 4' x 9' generator pad.

3.00 CONSTRUCTION

3.01 Construction requirements, General:

3.01.a Vertical foundation and piers shall be made in one continuous pour.

3.01.b All forms and reinforcing shall be approved by regulatory inspector.

3.01.c All debris, mud, water, etc. shall be removed from within forms prior to depositing concrete.

3.01.d Maximum free drop of concrete during placement shall be 12 feet.

3.01.e Concrete shall be discharged from mixer and placed in a manner which requires minimum handling. Moving from point of deposit to final position shall be by shoveling.

3.01.f Freshly deposited concrete shall be vibrated or handled so that forms will be completely filled (no honey-combing) and concrete surface will have a neat and workmanlike appearance.

3.01.g Concrete shall be maintained in a moist condition for seven days after placement and protected from injury by rain, elevated temperature, or flowing water.

3.01.h Copies of all delivery receipts for concrete material shall be forwarded to Owner.

3.01.i Excavation shall be backfilled as soon as practicable but only AFTER inspection of foundation by Owner. Backfill shall be free from extraneous material. It shall be placed in layers not more than ten inches except that finish material shall not exceed layers of six inches. Backfill shall be compacted to density comparable to adjacent, undisturbed earth.

3.01.j Reinforcing steel shall be new and free from loose rust or scale, grease, dirt or other coatings which will destroy or reduce bond. A tight film of rust or mill scale will not be considered objectionable.

3.01.k Concrete shall achieve specified strength in 28 days.

3.02 Construction requirements, tower foundation:

3.02.a Vendor shall unload and stow tower anchor bolts and anchor bolt template following arrival of shipment by carrier for Sabre Industries, such shipment coordinated by County's representative.

3.02.b Anchor bolts shall be accurately positioned with template.
ANCHOR BOLTS MUST BE VERTICAL AND THE EXPOSED ENDS FOR ALL BOLTS SHALL LIE IN A LEVEL PLANE. IMPROPERLY SET ANCHOR BOLTS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE FOUNDATION AND ANY CLAIM BY VENDOR FOR COMPENSATION OR EXTRA WORK.

3.02.c Any exposed threads of bolts or rods shall be kept covered and free of concrete.

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

3.02.e Top of foundation shall be level. Top surface shall be smooth finished with edges finished with 3/4" chamfer.

3.03 Construction requirements, LP tank pad:

3.03.a Top of foundation shall be level. Top surface shall be smooth finished with edges finished with 3/4" chamfer.

3.03.b Top of LP tank pad shall be at least eight inches above finish grade ground level.

3.04 Clay and topsoil spoils from pier and pad excavation may be placed on the property due west of Battle Elementary School across Battle Avenue. Access to the site shall be coordinated in advance with Mr. Rob Woverton of St. Charles Road Development at 573-999-6551. Any drilled rock 'plugs' or mixed material with stone or cobbles of 3" diameter or larger must be removed from site.

3.05 Vendor may not clean out concrete mixers at site.

3.06 Shelter, shelter grounding, electrical service lines and generator pad are already installed at site. Damage to existing facilities and equipment at site shall be the sole responsibility of Vendor.

3.07 Vendor responsible to repair any damage to gravel service road from construction traffic associated with work under this specification.

4.00 ATTACHMENTS

- 4.01 All attachments shall be considered a part of this specification.
- 4.02 The following drawings and documents are included for use by Vendor:
ME1, C1 from County permit packet
Tower Foundation Design, Sabre Industries
Geotechnical Report, Crockett Engineering

5.00 Debarment and Suspension: By submission of its Bid Response, Vendor agrees to comply with the provisions of Executive Order 12549, regarding Debarment and Suspension. Specifically, the Vendor certifies that neither he/she nor their principals are 1.) presently debarred, suspended, proposed for debarment, declared ineligible or voluntary excluded from covered transactions by a Federal department or agency, 2) have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property; 3.) are not presently indicted for or otherwise criminally or civilly charged by a government entity with commission of any of the offenses stated above and 4.) have not within a three year period preceding this bid had one or more public transactions terminated for cause or default.

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

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

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

- A. **Employers Liability and Workers Compensation Insurance -** The Contractor shall take out and maintain during the life of this contract, **Employers Liability and Workers Compensation Insurance** for all of its employees employed at the site of work, and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workers Compensation Insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. Workers Compensation coverage shall meet Missouri statutory limits. Employers Liability limits shall be \$500,000.00 each employee, \$500,000.00 each accident, and \$500,000.00 policy limit. In case any class of employees engaged in hazardous work under this Contract at the site of the work is not protected under the Workers Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide Employers Liability Insurance for the protection of their employees not otherwise protected.

- B. Commercial General Liability Insurance** - The Contractor shall take out and maintain during the life of this contract, such commercial general liability insurance as shall protect it and any subcontractor performing work covered by this contract, from claims for damages for personal injury including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by themselves or for any subcontractor or by anyone directly or indirectly employed by them. The amounts of insurance shall be not less than \$3,000,000.00 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death. If the Contract involves any underground/digging operations, the general liability certificate shall include X, C, and U (Explosion, Collapse, and Underground) coverage. If providing Commercial General Liability Insurance, then the Proof of Coverage of Insurance shall also be included.
- C.** Contractor may satisfy the minimum liability limits required for Commercial General Liability or Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum per occurrence limit of liability under the umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "Each Occurrence" limit for either Commercial General Liability or Business Auto Liability. Contractor agrees to endorse the County as an Additional Insured on the umbrella or Excess Liability, unless the Certificate of Insurance state the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.
- D. Business Automobile Liability** – The Contractor shall maintain during the life of this contract, automobile liability insurance in the amount of not less than \$3,000,000.00 combined single limit for any one occurrence, covering both bodily injury, including accidental death, and property damage, to protect themselves from any and all claims arising from the use of the Contractor's own automobiles, teams and trucks; hired automobiles, teams and trucks; non-owned and both on and off the site of work.
- E. Subcontractors:** Contractor shall cause each Subcontractor to purchase and maintain insurance of the types and amounts specified herein. Limits of such coverage may be reduced only upon written agreement of County. Contractor shall provide to County copies of certificates of insurance evidencing coverage for each Subcontractor. Subcontractors' commercial general liability and business automobile liability insurance shall name County as Additional Insured and have the Waiver of Subrogation endorsements added.
- F. Proof of Carriage of Insurance** - The Contractor shall furnish the County with Certificate(s) of Insurance which name the County as additional insured in an amount as required in this contract, contain a description of the project or work to be performed and provided for Commercial General Liability, Business Auto Liability, and Umbrella or Excess Liability (not on Workers Compensation). The Certificate of Insurance shall provide that there will be no cancellation, non-renewal or reduction of coverage without 30 days prior written notice to the Owner. In addition, such insurance shall be on an occurrence basis and shall remain in effect until such time as the County has made final acceptance of the services provided.
- G. INDEMNITY AGREEMENT:** To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with providing these services. This provision does not, however,

require contractor to indemnify, hold harmless, or defend the County of Boone from its own negligence.

- H. Failure to maintain the required insurance in force may be cause for contract termination. In the event the Agency/Service fails to maintain and keep in force the required insurance or to obtain coverage from its subcontractors, the County shall have the right to cancel and terminate the contract without notice.

8.00 Sales/Use Tax Exemption: County will provide the Contractor with a completed Missouri Project Exemption and Missouri Tax Exemption letter for Boone County, Missouri and the Contractor shall be responsible for furnishing the exemption certificate and tax exemption letter to all authorized subcontractors and suppliers providing materials incorporated in the work. All invoices issued for purchases for such materials, supplies and taxable rentals shall be in the name of Boone County and contain the project number assigned by Boone County for the contract awarded. It shall be the responsibility of the Contractor to insure that no sales or use taxes are included in the invoices and that the County pays no sales/use taxes from which it is exempt. The Contractor shall be responsible for obtaining revised exemption certificates and revised expiration dates if the work extends beyond the estimated project completion date or a certificate expiration date. The Contractor shall also be responsible for retaining a copy of the project exemption certificate for a period of five years and for compliance with all other terms and conditions of section 144.062 RSMo. Not otherwise herein specified. The Contractor agrees not to use or permit others to use the project exemption certificate for taxable purchases of materials or rentals and supplies not directly incorporated into or used in the work to which it applies and agrees to indemnify and hold the County harmless from all losses, expenses and costs including litigation expenses and attorney fees resulting from the unauthorized use of such project exemption certificates.

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

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

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

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

The Contractor and all Subcontractors shall be required to submit to the designated representative of the County using department, certified copies of labor payrolls and statements of compliance (Form WH-347) for each week that work is in progress. If work is temporarily suspended, the last payroll shall be marked appropriately to note that it will be the last payroll until work is resumed.

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

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

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

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

After completion of the work and before final payment can be made under this contract, the Contractor must file with the County an affidavit stating that they have fully complied with the provisions and requirements of the prevailing wage law of Missouri, Sections 290.210 to 290.340 RSMo. The prevailing

wage rate determination made by the Industrial Commission of Missouri is reproduced verbatim and is applicable to this contract whenever Boone County provides to Contractor a project which is determined to be applicable to prevailing wage law

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

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

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

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

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

15.00 LEGAL REQUIREMENTS: The Contractor shall do all work in such manner as to comply with all County ordinances, and laws of the County, State, and Nation as apply to the work herein outlined.

The Contractor shall also obtain all necessary licenses and permits and keep necessary records as required.

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

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

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

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

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

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

services), anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, and agrees to provide a copy of this waiver to any party affected by this provision.

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

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

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

22.00 BONDS: If Bidder's bid response is \$50,000 or greater, the following bonds are required:

Performance Bond and Labor and Material Payment Bond: Upon award of the Contract, the successful Contractor shall furnish a Performance Bond and a Labor and Material Payment Bond, each in an amount equal to the full Contract price, guaranteeing faithful compliance with all requirements of the Contract Documents and complete fulfillment of the Contract, and payment of all labor, material, and other bills made in carrying out this Contract.

Bid Bond: A Bid Bond or Certified Check made payable to Boone County, in the amount of 5% of the Base Bid shall accompany the proposal response as a guarantee that the Offeror, if awarded the Contract, will furnish a satisfactory Performance and Payment Bond; execute the contract; and proceed with the work. Upon failure to do so, the Respondent shall forfeit the deposit or amount of the Bid Bond as liquidated damages, and no mistakes or errors on the part of the Respondent shall excuse the Respondent or entitle the Respondent to a return of the deposit or Bid Bond.

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

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

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

3. Response Presentation and Review

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

4. Response Form

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

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

4.00 PRICING

4.01. Radio Tower Foundation and Site Work for Battle School per the requirements stated herein.
_____ DOLLARS and _____ CENTS
(Quoted cost in print)
\$/LUMP SUM

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

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

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

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

4.05. Return with your bid response the following:

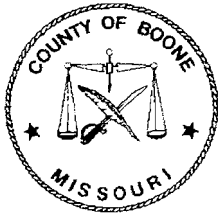
- Any addenda
Response Form
Statement of Bidder's Qualifications
Work Authorization Certification
Debarment Certification
Anti-Collusion Statement
Signature and Identity of Bidder
Bidder's Acknowledgment
Bid Bond (if bid response is \$50,000 or more)

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

Authorized Representative (Sign By Hand):

Date: _____

Print Name and Title of Authorized Representative: _____



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

Standard Terms and Conditions

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

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

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

STATEMENT OF BIDDER'S QUALIFICATIONS

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

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

*** Attach additional sheets as necessary ***

INSTRUCTIONS FOR COMPLIANCE WITH HOUSE BILL 1549

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

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

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

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

CERTIFICATION OF INDIVIDUAL BIDDER

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

- _____1. I have provided a copy of documents showing citizenship or lawful presence in the United States. (Such proof may be a Missouri driver’s license, U.S. passport, birth certificate, or immigration documents). Note: If the applicant is an alien, verification of lawful presence must occur prior to receiving a public benefit.

- _____2. I do not have the above documents, but provide an affidavit (copy attached) which may allow for temporary 90 day qualification.

- _____3. I have provided a completed application for a birth certificate pending in the State of _____. Qualification shall terminate upon receipt of the birth certificate or determination that a birth certificate does not exist because I am not a United States citizen.

Applicant

Date

Printed Name

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

State of Missouri)
)SS.
County of _____)

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

Date

Signature

Social Security Number
or Other Federal I.D. Number

Printed Name

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

Notary Public

My Commission Expires:

(Please complete and return with Bid)

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

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

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS FOR CERTIFICATION)

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

Name and Title of Authorized Representative

Signature

Date

ANTI-COLLUSION STATEMENT

STATE OF MISSOURI

COUNTY OF _____

_____, being first duly sworn, deposes and

says that he is _____

(Title of Person Signing)

of _____

(Name of Bidder)

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

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

By _____ By _____

By _____

Sworn to before me this _____ day of _____, 20 _____

Notary Public

My Commission Expires _____

SIGNATURE AND IDENTITY OF BIDDER

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

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

Dated _____, 20 _____

Name of individual, all partners, or joint venturers:

Address of each:

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

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

(If a corporation – show its name above)

ATTEST:

(Secretary)

(Title)

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

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

BIDDER'S ACKNOWLEDGMENT

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

State of _____ County of _____

On this _____ day of _____, 20 _____

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

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

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

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

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

Notary Public

My Commission expires _____, 20 _____.

(To be returned at end of project)

AFFIDAVIT OF COMPLIANCE WITH THE PREVAILING WAGE LAW

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

State of _____, personally came and appeared (name and title)

_____ of the (name of company)

_____ (a corporation) (a partnership) (a proprietorship)

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

(name of project) _____ located at

(name of institution) _____ in _____ County,

Missouri and completed on the _____ day of _____, 20_____.

Signature

Subscribed and sworn to me this _____ day of _____, 20_____.

My commission expires _____, 20_____.

Notary Public



“No Bid” Response Form

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

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

“NO BID RESPONSE FORM”

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

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

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

**Bid: 72-10NOV15 – RADIO TOWER FOUNDATION AND SITE WORK FOR
BATTLE SCHOOL**

Business Name: _____

Address: _____

Telephone: _____

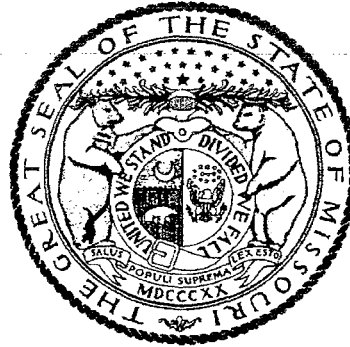
Contact: _____

Date: _____

Reason(s) for not bidding:

Missouri Division of Labor Standards

WAGE AND HOUR SECTION



JEREMIAH W. (JAY) NIXON, Governor

Annual Wage Order No. 22

Section 010
BOONE COUNTY

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

Original Signed by

John E. Lindsey, Director
Division of Labor Standards

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

Last Date Objections May Be Filed: April 9, 2015

Prepared by Missouri Department of Labor and Industrial Relations

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

Fringe Benefit Percentage is of the Basic Hourly Rate

**Annual Incremental Increase

OCCUPATIONAL TITLE	** Date of Increase	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits

* Welders receive rate prescribed for the occupational title performing operation to which welding is incidental.

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

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

a - Vacation: Employees over 5 years - 8%; Employees under 5 years - 6%

**b - All work over \$7 Mil. Total Mech. Contract - \$37.00, Fringes - \$26.68
All work under \$7 Mil. Total Mech. Contract - \$35.66, Fringes - \$21.29

c - Vacation: Employees after 1 year - 2%; Employees after 2 years - 4%; Employees after 10 years - 6%

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**BOONE COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

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

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

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

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

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

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

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

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

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

**BOONE COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**BOONE COUNTY
HOLIDAY SCHEDULE – HEAVY CONSTRUCTION**

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

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

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

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

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

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

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

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES
(A) [Symbol]	CONDUIT	1. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(B) [Symbol]	CONDUIT	2. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(C) [Symbol]	CONDUIT	3. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(D) [Symbol]	CONDUIT	4. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(E) [Symbol]	CONDUIT	5. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(F) [Symbol]	CONDUIT	6. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(G) [Symbol]	CONDUIT	7. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(H) [Symbol]	CONDUIT	8. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(I) [Symbol]	CONDUIT	9. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(J) [Symbol]	CONDUIT	10. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(K) [Symbol]	CONDUIT	11. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(L) [Symbol]	CONDUIT	12. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(M) [Symbol]	CONDUIT	13. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(N) [Symbol]	CONDUIT	14. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(O) [Symbol]	CONDUIT	15. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(P) [Symbol]	CONDUIT	16. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(Q) [Symbol]	CONDUIT	17. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(R) [Symbol]	CONDUIT	18. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(S) [Symbol]	CONDUIT	19. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(T) [Symbol]	CONDUIT	20. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(U) [Symbol]	CONDUIT	21. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(V) [Symbol]	CONDUIT	22. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(W) [Symbol]	CONDUIT	23. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(X) [Symbol]	CONDUIT	24. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(Y) [Symbol]	CONDUIT	25. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(Z) [Symbol]	CONDUIT	26. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(AA) [Symbol]	CONDUIT	27. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(AB) [Symbol]	CONDUIT	28. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(AC) [Symbol]	CONDUIT	29. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.
(AD) [Symbol]	CONDUIT	30. CONDUIT SHALL BE 1/2" RIGID POLYETHYLENE GLASS FIBER REINFORCED (PVC) CONDUIT UNLESS OTHERWISE NOTED.

MECHANICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES
(1) [Symbol]	CIVIL WORK	1. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.
(2) [Symbol]	CIVIL WORK	2. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.
(3) [Symbol]	CIVIL WORK	3. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.
(4) [Symbol]	CIVIL WORK	4. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.
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(8) [Symbol]	CIVIL WORK	8. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.
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(24) [Symbol]	CIVIL WORK	24. CIVIL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

ELECTRICAL SPECIFICATIONS

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

2. ALL ELECTRICAL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.

3. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

4. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

5. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

MECHANICAL SPECIFICATIONS

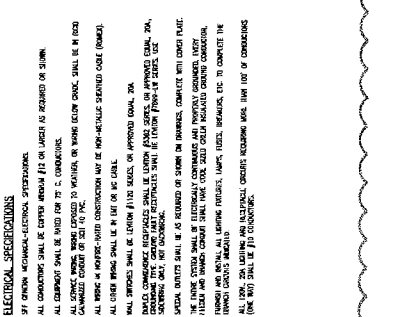
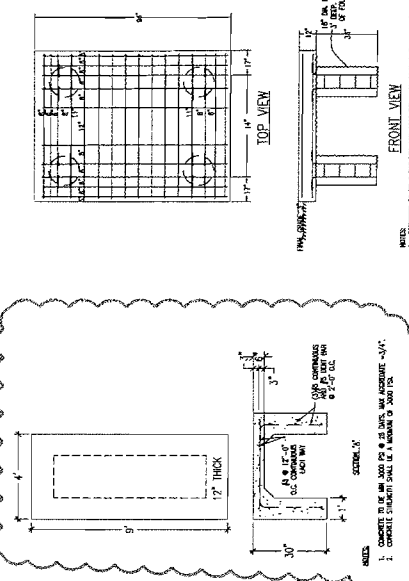
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2. ALL MECHANICAL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.

3. ALL MECHANICAL WORK SHALL BE PERFORMED ACCORDING TO THE CITY OF COLUMBIA, MISSOURI SPECIFICATIONS.

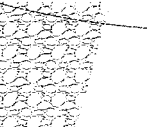
5. PROPANE PAD DETAIL

4. GENERATOR PAD DETAIL



3. GROUND WELL

2. ELECTRIC RISER DIAGRAM

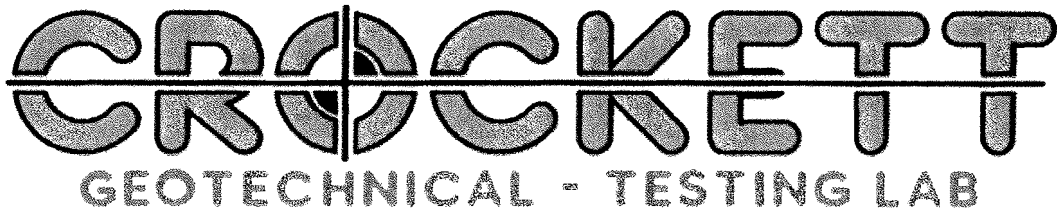


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MECHANICAL/ELECTRICAL PLAN
ME1
SHEET 1 OF 1
PROJECT: 15171

REVISIONS:
DATE: 06-29-15
BY: JWC
DESCRIPTION: 1. MECHANICAL/ELECTRICAL PLAN
2. MECHANICAL/ELECTRICAL PLAN
3. MECHANICAL/ELECTRICAL PLAN

2600 BATTLE AVENUE
COLUMBIA, BOONE COUNTY, MISSOURI, 65202
MALICOAT - WINSLOW ENGINEERS, P.C.
3646 N. CLEARVIEW ROAD
COLUMBIA, MISSOURI 65202
TEL: 572-875-1300
FAX: 572-875-1300
MISSOURI STATE CERTIFICATE OF AUTHORITY 0000241



GEOTECHNICAL ENGINEERING REPORT
FOR
COLUMBIA/BOONE COUNTY
JOINT COMMUNICATIONS

911 MONOPLE RADIO TOWER
COLUMBIA, MISSOURI

JULY 20, 2015

Crockett GTL Project Number: G15046

500 Big Bear Blvd. • Columbia, MO 65202
Phone: 573-447-3981
www.CrockettGTL.com

CROCKETT

GEOTECHNICAL - TESTING LAB

500 Big Bear Boulevard
Columbia, Missouri 65202
(573) 447-3981

July 20, 2015

Joint Communications Radio Network
609 E Walnut Street
Columbia, MO 65201

Attn: Mr. Dave Dunford

Re: Geotechnical Engineering Report
911 Monopole Radio Tower
Columbia, Missouri
Crockett GTL Project Number: G15046

Dear Mr. Dunford:

Crockett Geotechnical - Testing Lab (Crockett GTL) has completed the geotechnical engineering services for the referenced project. This report should be read in its entirety. This report presents the results of our field explorations, laboratory testing, and recommendations for design and construction of the referenced project.

We appreciate the opportunity to be of service and look forward to working with you during the construction phase of this project. If you have any questions concerning this report, or if we may be of further service, please contact us.

Sincerely,



Shane Steinman, E.I.
Project Manager



Eric H. Lidholm, P.E.
Principal Engineer
Missouri: E-23265



Enclosures

cc: 1 - Client (.PDF)
1 - File

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APPENDIX

- Site Location Map
- Boring Location Plan
- Boring Log
- Boring Log Legend and Nomenclature

Geotechnical Engineering Report
911 Monopole Radio Tower
Columbia, Missouri
Crockett GTL Project Number: G15046
July 20, 2015

1 INTRODUCTION

Crockett Geotechnical - Testing Lab (CGTL) has conducted a geotechnical exploration for the proposed development. The purpose of our exploration was to:

- characterize and evaluate the subsurface conditions,
- provide design and construction recommendations for:
 - earthwork
 - foundations
 - seismic considerations

2 SITE AND PROJECT INFORMATION

2.1 SITE LOCATION AND DESCRIPTION

Item	Description
Location	This site is located near the southeastern corner of the Elliot Battle Elementary School property located at 2600 Battle Avenue in the city of Columbia, Missouri.
Approximate GPS Coordinates	Latitude: 38.974681° Longitude: -92.221980°
Existing improvements	This tower site is undeveloped.
Current ground cover	Recently graded. Mostly bare soil and some weeds.
Existing topography	Relatively level.

2.2 PROJECT DESCRIPTION

Item	Description
Proposed structures	Monopole Tower, 180 feet tall Possible equipment building

Item	Description
Estimated loads (assumed)	Vertical: 40 kips Shear: 30 kips Moment: 3,600 k-ft Uplift: N/A
Grading (approximate)	For this proposal we have assumed site grading to consist of less than approximately 5 feet of cut and fill.
Cut and fill slopes	Final slopes are assumed to be no steeper than 3H:1V (Horizontal to Vertical)
Free-standing retaining walls	None.
Below grade areas	None.

3 SUBSURFACE CONDITIONS

3.1 FIELD EXPLORATION AND LABORATORY TESTING

One (1) boring was drilled for this project at the approximate location indicated on the Boring Location Plan included in the Appendix of this report. The boring location was designated and staked by Boone County. The ground surface elevation indicated on the boring log is approximate and was obtained from Boone County Parcel Viewer using the terrain feature. The boring elevation was rounded to the nearest foot. The location and elevation of the boring should be considered accurate only to the degree implied by the means and methods used to define them.

The boring was drilled with a track mounted CME-45 drill rig. Representative samples were obtained using thin-walled tube sampling procedures. The samples were tagged for identification, sealed to reduce moisture loss, and taken to our laboratory for further examination, testing, and classification. Information provided on the boring log attached to this report includes soil descriptions, consistency evaluations, boring depth, sampling intervals, and groundwater conditions. The boring was backfilled with auger cuttings prior to the drill crew leaving the site.

The field log was prepared by the drill crew. The final boring log included with this report represents the engineer's interpretation of the field log and includes modifications based upon laboratory tests and observation made of the samples. The descriptions of the soil on the final boring log is in general accordance with the Unified Soil Classification System which is included in the Appendix of this report.

Detailed information regarding the material encountered and the results of field sampling and laboratory testing are shown on the Boring Log included in the Appendix of this report.

3.2 ENCOUNTERED SUBSURFACE CONDITIONS

Lean to fat clay was encountered from the ground surface to a depth of approximately 7 feet at the boring location. The lean to fat clay was stiff to very stiff in consistency. Underlying the lean to fat clay was fat clay which extended to a depth of approximately 10 feet.

Underlying the lean to fat clay and fat clay was lean to fat clay that was visually identified as glacial drift. The glacial drift was very stiff to hard in consistency and extended to boring termination depth of 50 feet.

Detailed descriptions of the encountered materials are listed on the boring log included in the Appendix of this report. Strata lines indicate the approximate location of changes in material types. The transition between material types may be gradual.

3.3 GROUNDWATER

Groundwater was encountered at a depth of 28 feet while drilling, 32 feet at the completion of drilling, and at 30 feet ½ hour after the completion of drilling. Once groundwater was encountered, the water level remained fairly constant and rapidly filled between each sampling interval.

Pockets, lenses, and stringers of sand were encountered in the glacial soils found in the vicinity of the referenced project. These sand pockets are normally discontinuous and often contain water of variable quality and quantity. These sand pockets may be encountered during foundation excavation.

Groundwater levels depend on seasonal and climatic variations, and other factors not evident at the time the boring was performed, and may be present at different levels in the future. Therefore, groundwater levels during construction or at other times in the life of the structure may be at different levels than those indicated on the boring logs. In addition, without extended periods of observation in piezometers or observation wells, accurate groundwater level measurements may not be possible, particularly in low permeability soils.

The borehole was backfilled prior to departing the project site. Groundwater records are indicated on the boring log included in the Appendix of this report.

4 GEOTECHNICAL RECOMMENDATIONS

4.1 EARTHWORK

At the completion of stripping and grubbing, we recommend the exposed subgrade be thoroughly evaluated before the start of any fill operations. We recommend the geotechnical engineer be retained to evaluate the bearing material for the foundations and subgrade soils. Subsurface conditions, as identified by the field and laboratory testing programs have been reviewed and evaluated with respect to the proposed project plans known to us at this time.

4.1.1 Site Preparation

All existing utility backfill, and any otherwise unsuitable material should be removed from the construction areas prior to placing structural fill. After stripping and grubbing, the site should be proofrolled to aid in locating loose or soft areas. Proofrolling can be performed with a loaded tandem axle dump truck. Soft, wet, dry and low-density soil should be removed or be moisture conditioned and recompacted in place as structural fill prior to placing new structural fill.

Where fill is placed on existing slopes steeper than 5H:1V, benches should be cut into the existing slopes prior to fill placement. The benches should have a vertical face height of 1 to 3 feet and should be cut wide enough to accommodate the compaction equipment. We recommend structural fill slopes be overfilled and then cut back to develop an adequately compacted slope face.

4.1.2 Structural Fill Requirements

Compacted structural fill should consist of approved materials free of organic matter and debris. Frozen material should not be used and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted for evaluation prior to use.

Structural Fill Requirements		
Material Type	USCS Classification	Acceptable Uses
Lean Clay and Clayey Sand	CL & SC (LL<40)	All locations
Lean to Fat Clay	CL-CH (40<LL<50)	>24 inches below slabs on grade unless Pl<23
Fat Clay	CH (LL≥50+)	>24 inches below slabs on grade
Well Graded Granular 1. MoDOT Type V or similar	GM	All locations

Structural Fill Requirements		
	CL CL-CH (40<LL<50 & PI<23)	All locations
Low Volume Change Material ^{1,2}	1. Similar to MoDOT Type 1 crushed limestone aggregate, limestone screenings, or granular material such as sand, gravel or crushed stone containing at least 18% low plasticity fines. 2. Low plasticity cohesive soil or granular soil having at least 18% low plasticity fines.	
Soil Fill Lift Thickness	9 inches or less when using heavy self-propelled compaction equipment 6-inches or less when using hand guided or light self-propelled equipment	
Soil Compaction Requirements ¹	95% of standard Proctor dry density (ASTM D-698) 1. We recommend the engineered fill be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.	
Compaction Moisture Content Requirements <ul style="list-style-type: none"> • Cohesive • Granular 	From standard Proctor optimum moisture content (OMC) to 4% above the standard Proctor OMC. Workable moisture content. Shall not pump when proofrolled	

4.1.3 Grading and Drainage

Final surrounding grades should be sloped away from the structure on all sides to prevent ponding of water. Collected water should discharge at least 10 feet beyond the footprint of the tower support structure.

4.1.4 Earthwork Construction

In periods of dry weather, the surficial soils may be of sufficient strength to allow fill construction on the stripped and grubbed ground surface. However, unstable subgrade conditions could develop if the soils are wet or subjected to repetitive construction traffic. Should unstable subgrade conditions be encountered, stabilization measures will need to be employed.

Upon completion of filling and grading, care should be taken to maintain the subgrade moisture content prior to construction of floor slabs and pavements. Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the

subgrade should become frozen, desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and recompacted prior to floor slab and pavement construction.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork/fill placement and to perform necessary tests and observations during subgrade preparation; proof-rolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction of building floor slabs.

4.1.5 Temporary Excavations

The Occupational Safety and Health Administration (OSHA) has developed regulations to provide for the safety of workers entering excavations. Temporary excavations will probably be required during grading operations. All operations should be performed under the supervision of qualified site personnel in accordance with OSHA Excavation and Trench Safety Standards.

4.2 FOUNDATION RECOMMENDATIONS

The subsurface data obtained from the boring was analyzed to evaluate potential foundation design alternatives. It is our professional opinion the self-support tower can be supported by either a shallow, spread footing foundation system or by a drilled pier foundation system bearing within the native clay. The equipment building can be supported by a shallow foundation system bearing on stiff native clay or compacted structural fill. Design recommendations and construction considerations for shallow foundations follow:

4.2.1 Shallow Foundation Design Recommendations

Shallow Foundation Design Recommendations	
Net allowable bearing pressure ¹ <ul style="list-style-type: none"> • From 0 to 3 Feet • From 3 to 13 Feet • Deeper than 13 Feet 1. Net allowable bearing pressure is based on a factor of safety of 3.0.	Ignore 3,000 psf 5,500 psf
Allowable overstress for transient loads (i.e. snow, wind, seismic)	33%

Shallow Foundation Design Recommendations	
Ultimate passive pressure (equivalent fluid pressure) ^{1,2,3} 1. The sides of the spread footing foundation excavations must be nearly vertical and the concrete should be placed neat against the vertical faces for the passive earth pressure values to be valid. 2. Passive resistance in the frost zone should be neglected. 3. Some movement of the footing will be required to mobilize resistance from passive pressure and sliding friction.	270 pcf
Coefficient of sliding friction	0.32
Minimum embedment below finished grade for frost protection	30 inches
Approximate Settlement ¹ <ul style="list-style-type: none"> • Total • Differential 1. Foundation settlement will depend upon the variations within the subsurface soil profile, the tower's structural loading conditions, the embedment depth of the footings, the thickness of compacted fill (if any), and the quality of the earthwork operations.	< 1 inch < ¾ inch

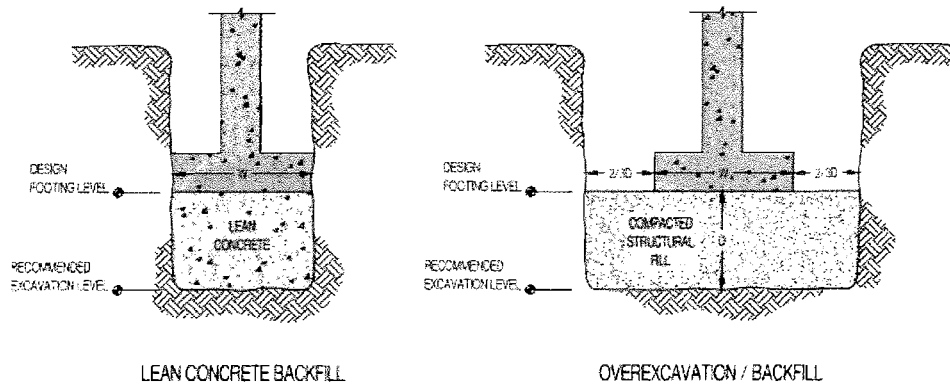
Uplift resistance for spread footing foundations may be computed as the sum of the effective weight of the foundation element and the effective weight of the soil overlying the foundation. We recommend using a soil unit weight of 120 pounds per cubic foot (pcf) for structural fill overlying the footing placed as described in this section of this report. A unit weight of 150 pcf could be used for reinforced footing concrete. We recommend a minimum factor of safety of 1.5 be utilized for uplift calculations.

4.2.2 Shallow Foundation Construction Considerations

The base of all foundation excavations should be free of water and loose soil and rock prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soil at the foundation bearing level become excessively dry, disturbed, saturated, or frozen the affected soil should be removed prior to placing concrete. Place a lean concrete mud-mat over the bearing soils if the excavations must remain open over night or for an extended period of time. It is recommended the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

Although groundwater was not encountered at or above the anticipated shallow foundation bearing elevation, it may be encountered during foundation excavation. In addition, some surface and/or perched groundwater may enter foundation excavations during construction. It is anticipated any water entering foundation excavations from these sources can be removed using sump pumps or gravity drainage.

If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings should bear directly on these soils at the lower level or on lean concrete backfill placed in the excavations. The footings could also bear on properly compacted backfill extending down to the suitable soils. Overexcavation for compacted backfill placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation with well graded granular material placed in lifts of 9 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum standard effort maximum dry density (ASTM D 698). The lean concrete backfill and overexcavation-and-backfill procedures are described in the diagram below.



NOTE
 EXCAVATIONS IN SKETCHES SHOWN VERTICAL FOR CONVENIENCE. EXCAVATIONS SHOULD BE SLOPED AS NECESSARY FOR SAFETY.

4.2.3 Drilled Pier Foundation Design Recommendations

The proposed structure can be founded on straight shaft drilled piers bearing in suitable glacial drift. The design parameters provided in the following table are based on the results of field and laboratory testing, published values, and our past experience with similar soil conditions.

Drilled Pier Design Parameters						
Approximate Depth (feet) ¹	Allowable Skin Friction (psf) ²	Allowable End Bearing Pressure (psf) ³	Allowable Passive Pressure (psf) ²	Cohesion (psf)	Strain ϵ_{50} (in./in) ⁴	Lateral Subgrade Modulus (pci) ⁴
0 - 3	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore

Drilled Pier Design Parameters						
Approximate Depth (feet) ¹	Allowable Skin Friction (psf) ²	Allowable End Bearing Pressure (psf) ³	Allowable Passive Pressure (psf) ²	Cohesion (psf)	Strain ϵ_{50} (in./in) ⁴	Lateral Subgrade Modulus (pci) ⁴
3 – 13	250	NR ⁵	1,250	1,250	0.009	370
13 – 30	600	7,500 ³	3,000	3,000	0.005	1,000
> 30	500	7,500 ³	2,500	2,500	0.006	830

1. A moist unit weight of 125 pcf can be used for soil above groundwater
 An effective unit weight of 63 pcf can be used for soil below groundwater
 CGTL should observe pier excavations to evaluate whether conditions are consistent with those encountered in our boring.
2. The skin friction and passive pressure values are based on a constant (rectangular) pressure distribution for cohesive soils and bedrock.
 Skin friction and passive pressure should be neglected within 3 feet of the final grade.
 Allowable skin friction based on a FOS=3.0.
3. Minimum pier length of 4 diameters required. CGTL should be contacted if the pier length is less than four times the pier diameter as modifications to our design parameters may be warranted.
 Allowable end bearing based on a FOS=3.0.
4. Lateral subgrade modulus and strain values are to be utilized with LPILE software.
5. NR = Not Recommended

Drilled piers should have a minimum shaft diameter of 30 inches. The above-indicated cohesion values are ultimate values without factors of safety. The end bearing, skin friction, and passive resistance are allowable parameters with factors of safety. The values given in the above table are based on our boring and past experience with similar material types.

4.2.4 Drilled Pier Foundation Construction Considerations

Pier drilling through the upper native soils is not expected to be difficult based upon the material encountered in the boring. However, special drilling techniques may be required to penetrate potential gravel and cobble zones that could be encountered in the glacial drift materials. The contractor should be aware boulders, although not encountered in our boring, are sometimes present within glacial drift in this area.

Groundwater was encountered in the boring while drilling with the solid stem augers and the groundwater rapidly filled the borehole between each sampling interval. Groundwater should be anticipated during future pier drilling and the contractor should be prepared to handle wet drilling conditions.

Temporary casing may be needed to advance drilled pier excavations. Temporary casing should also be installed when personnel enter the shafts to clean and/or test the bearing surface.

For proper performance of the drilled pier foundation system, it is critical for the bottom of pier excavations to be cleaned of any water and loose material prior to placing reinforcing steel and concrete. A minimum shaft diameter of at least 30 inches is required for entry of construction and testing personnel, and to facilitate clean-out and possible dewatering of the pier excavation.

Concrete should be placed soon after excavating to minimize bearing surface disturbance. Any water accumulating in the pier excavation should be pumped from the excavation or the water level should be allowed to stabilize and then concrete should be placed using the tremie method.

If concrete will be placed as the temporary casing is being removed, we recommend the concrete mixture be designed with a slump of about 5 to 7 inches to reduce the potential for arching when removing the casing. While removing the casing from a pier excavation during concrete placement, the concrete inside the casing should be maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

We recommend a CGTL engineer or their representative be present on a full-time basis during drilling activities to evaluate the materials removed from the drilled pier excavations to determine when adequate capacity has been developed, to observe the base of the drilled pier to determine that the cuttings have been adequately removed, and also to observe the concreting techniques.

Although obvious signs of harmful gases such as methane, carbon monoxide, etc., were not noted in the boring during the geotechnical drilling operations, gas could be encountered in the drilled shaft excavations during construction. The contractor should check for gas and/or oxygen deficiency prior to any workers entering the excavation for observation and manual cleanup.

4.3 SEISMIC CONSIDERATIONS

The 2012 International Building Code requires the average properties in the upper 100 feet of the subsurface profile a site profile determination extending a depth of 100 feet for seismic site classification. The drilling scope performed for this project had one boring that extended to a maximum depth of approximately 50.0 feet.

Seismic Site Classification	
Code Used	2012 International Building Code (IBC)
Site Classification	D

Additional exploration to greater depths could be considered to confirm the conditions below the current depth of exploration. Alternatively, a geophysical exploration could be utilized in order to attempt to justify a more favorable seismic site class.

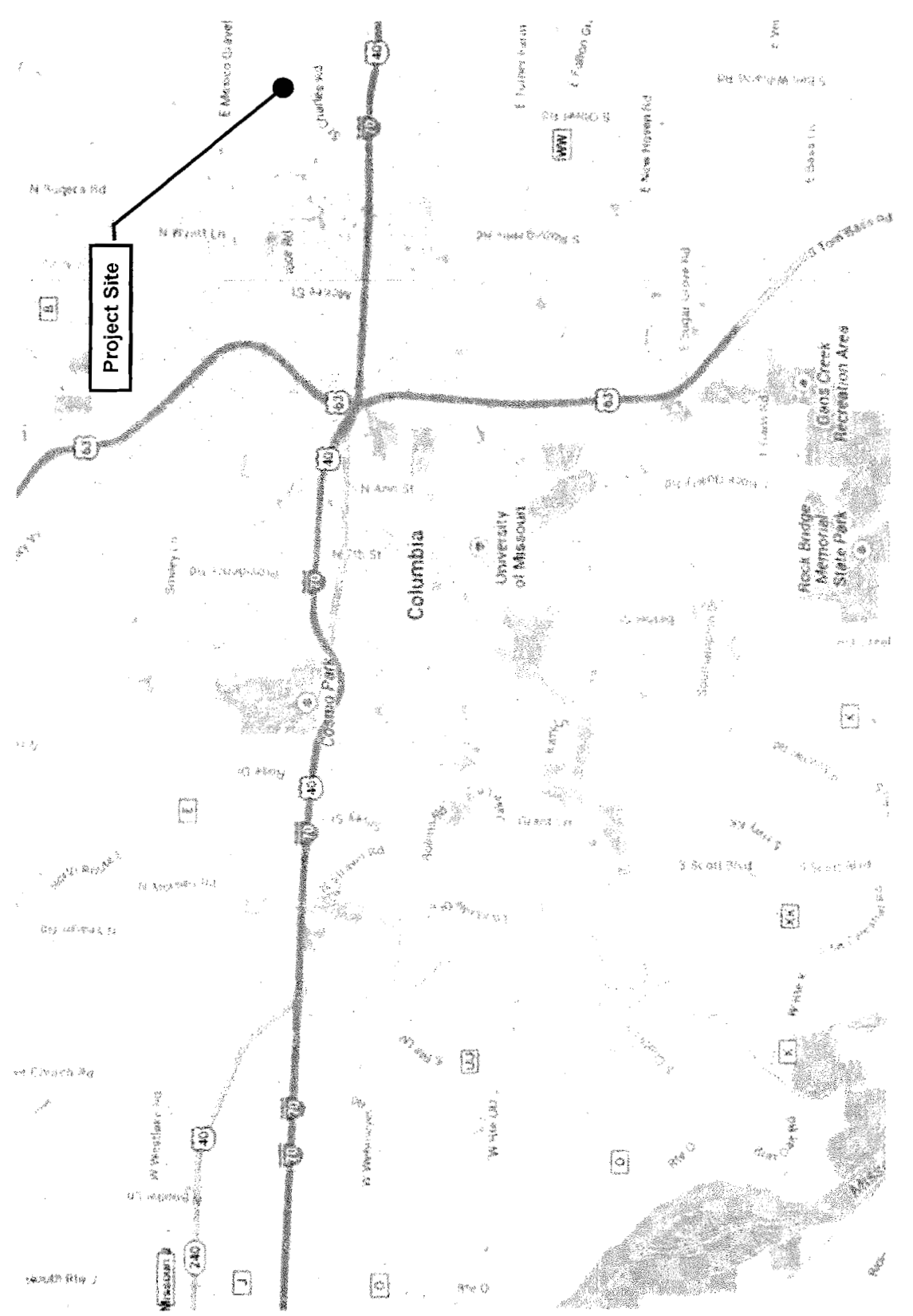
5 GENERAL COMMENTS

The recommendations provided herein are for the exclusive use of our client. Our recommendations are specific only to the project described herein and are not meant to supersede more stringent requirements of local ordinances or codes. The recommendations are based on subsurface information obtained at our boring locations, sample locations, our understanding of the project as described in this report, and geotechnical engineering practice consistent with the current standard of care. No warranty is expressed or implied. CGTL should be contacted if conditions encountered are not consistent with those described.

CGTL should be provided with a set of final plans and specifications, once they are available, to review whether our recommendations have been understood and applied correctly and to assess the need for additional exploration or analysis. Failure to provide these documents to CGTL may nullify some or all of the recommendations provide herein. In addition, any changes in the planned project or changes in site conditions may require revised or additional recommendations on our part.

The final part of our geotechnical service should consist of direct observation during construction to observe that conditions actually encountered are consistent with those described in this report and to assess the appropriateness of the analyses and recommendations contained herein. CGTL cannot assume liability or responsibility for the adequacy of recommendations without being retained to observe construction.

APPENDIX



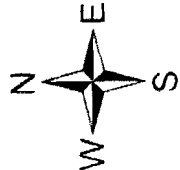
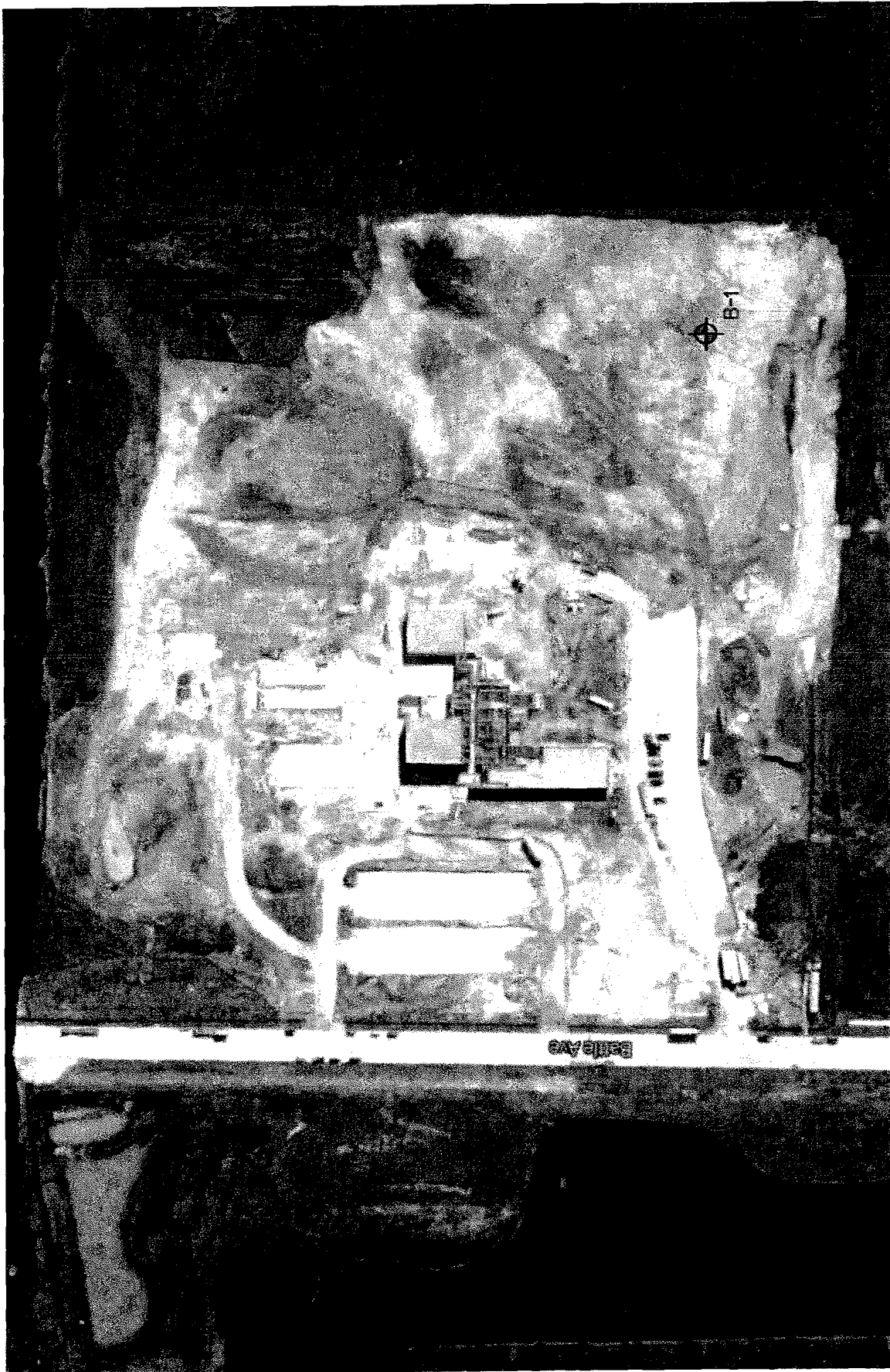
Project Site

Prepared By:
CROCKETT
 CONSULTING ENGINEERS, L.P.A.
 500 Big Bear Blvd.
 Columbia, MO 65202
 573-447-3981
 www.CrockettGTL.com

SITE LOCATION MAP
911 MONOPLE RADIO TOWER
COLUMBIA, MISSOURI

PROJECT NO.: G15046





BORING LOCATION PLAN

911 MONOPOLE RADIO TOWER
COLUMBIA, MISSOURI

PROJECT NO: G15046

Prepared By:
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 500 Big Bear Boulevard
 Columbia, MO 65202
 Telephone: 573-447-3981



BORING NUMBER B-1

CLIENT Columbia/Boone County Joint Communications
PROJECT NUMBER G15046
DATE STARTED 7/14/15 **COMPLETED** 7/14/15
DRILLING CONTRACTOR IPES
DRILLING METHOD 4" SSA
LOGGED BY Friedmar **CHECKED BY** Lidholm
NOTES Borehole backfilled upon completion

PROJECT NAME 911 Monopole Radio Tower
PROJECT LOCATION Columbia, Missouri
GROUND ELEVATION 860 ft **HOLE SIZE** 4"
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 28.00 ft / Elev 832.00 ft
 ▽ **AT END OF DRILLING** 32.00 ft / Elev 828.00 ft
 ▽ **0.5hrs AFTER DRILLING** 30.00 ft / Elev 830.00 ft

SAMPLE LENGTH REPORT - LAT-LONG TEMPLATE_GDT - 7/20/15 15:44 - C:\SERVER FILES\GEOTECH GENERAL\PROJECTS\2015\G15046 - 911 SELF SUPPORT RADIO TOWER\G15046.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY LENGTH	BLOW COUNTS (N VALUE)	POCKET PEN. (psf)	UNC. COMP. (psf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS		
										LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
0												
		LEAN TO FAT CLAY: Brown and gray, trace rust stains, trace lignite, trace gravel, stiff to very stiff	ST 1	12		4500		104	22			
			ST 2	15		8000	4250	107	21			
7.0		853.0 FAT CLAY: Dark brown to brown, trace gravel, stiff	ST 3	14		2500	2500	92	30			
			ST 4	10		2500		100	22			
10.0		850.0 LEAN TO FAT CLAY Brown and gray, trace lignite, trace gravel, trace sandy, occasional sandy zones, very stiff to hard (Glacial Drift)										
			ST 5	20		6500		104	23			
			ST 6	20		7500	5920	112	18			
			ST 7	23		7000		115	18			
			ST 8	24		7000	6550	111	19			
			ST 9	19		5000		103	23			
			ST 10	24		6000	3840	107	23			
		--: becomes dark gray to gray	ST 11	24		5500		110	20			
		--: becomes brown to light brown, trace gray, sandy clay to clayey sand	ST 12	22		8000			27			
50.0		810.0										



No Refusal
 Bottom of borehole at 50.0 feet.

BORING LOG LEGEND AND NOMENCLATURE

Sample Type	Description
AU	Auger sample, disturbed, obtained from auger cuttings
NR	No recovery or lost sample
RC	Rock core, diamond core bit, nominal 2-inch diameter rock sample (ASTM D 2113)
ST	Thin walled (Shelby) tube sample, relatively undisturbed (ASTM D 1587)
SPT	Split spoon sample, disturbed (ASTM D 1586)
VA	Shear vane (ASYM D 2753)

Grain Size Terminology	
Boulders	Larger than 12-inches
Cobbles	3-inches to 12-inches
Gravel	Retained on #4 sieve to 3-inches
Sand	Retained on #200 sieve but passes #4 sieve
Silt or Clay	Passes #200 sieve

Descriptor	Relative Proportion of Sand and Gravel	Relative Proportion of Fines
Trace	Less than 15% by dry weight	Less than 5% by dry weight
With	15% to 30% by dry weight	5% to 12% by dry weight
Modifier	More than 30% by dry weight	More than 12% by dry weight

Relative Density of Coarse grained Soils	
Descriptive Term	SPT N-Value, Blows/Foot
Very Loose	0 - 3
Loose	4 - 9
Medium Dense	10 - 29
Dense	30 - 49
Very Dense	50+

Consistency of Fine Grained Soils		
Descriptive Term	SPT N-Value, Blows/Foot	Unconfined Compressive Strength, psf
Very Soft	0 - 2	0 - 500
Soft	2 - 3	500 - 1,000
Medium	4 - 9	1,000 - 2,000
Stiff	10 - 29	2,000 - 4,000
Very Stiff	30 - 49	4,000 - 8,000
Hard	50+	8,000+

USCS Soil Classification System					
	Major Divisions		Group Symbol	Group Name	
	coarse grained soils more than 50% retained on #200 sieve	gravel >50% of coarse fraction retained on #4 (4.75 mm) sieve	clean gravel <5% small than #200 sieve	GW	well-graded gravel, fine to coarse gravel
gravel with >12% fines			GP	poorly graded gravel	
sand >50% of coarse fraction passes #4 (4.75 mm) sieve			clean sand	GM	silty gravel
			sand with >12% fines	GC	clayey gravel
fine grained soils more than 50% passes #200 sieve		silt and clay liquid limit < 50	inorganic	SW	well-graded sand, fine to coarse sand
			organic	SP	poorly graded sand
			inorganic	SM	silty sand
		silt and clay liquid limit ≥ 50	inorganic	SC	clayey sand
	inorganic		ML	silt	
	organic		CL	clay	
highly organic soils	inorganic	MH	silt of high plasticity, elastic silt		
	organic	CH	clay of high plasticity, fat clay		
		OH	organic clay, organic silt		
		PT	peat		

Weathering	Description of Rock Properties
Fresh	No discoloration. Not oxidized.
Slightly weathered	Discoloration or oxidation of most surfaces but or short distance from fractures
Moderately weathered	Discoloration or oxidation extends from fractures, usually throughout. All fractured surfaces are oxidized or discolored.
Severely weathered	Discoloration or oxidation throughout. All fractured surfaces are oxidized or discolored. Surfaces are friable.
Decomposed	Resembles a soil. Partial or complete remnant rock structure may be present.

Rock Quality Designator (RQD)	
RQD, %	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very poor

Joint, Bedding, and Foliation Spacing in Rock		
Spacing	Joints	Bedding/Foliation
< 2-inches	Very close	Very thin
2-inches - 1-foot	Close	Thin
1-foot - 3-feet	Moderately Close	Medium
3-feet - 10-feet	Wide	Thick
>10-feet	Very Wide	Very thick



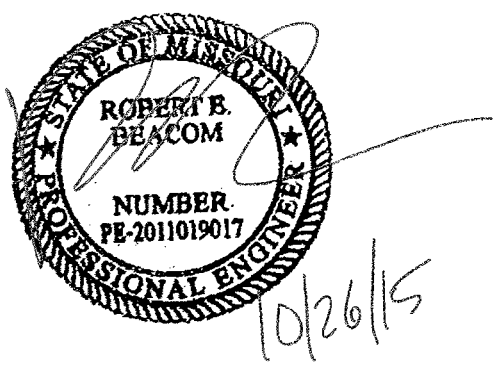
Structural Design Report
170' Monopole
Site: Battle School, MO

Prepared for: BOONE COUNTY
by: Sabre Towers & Poles™

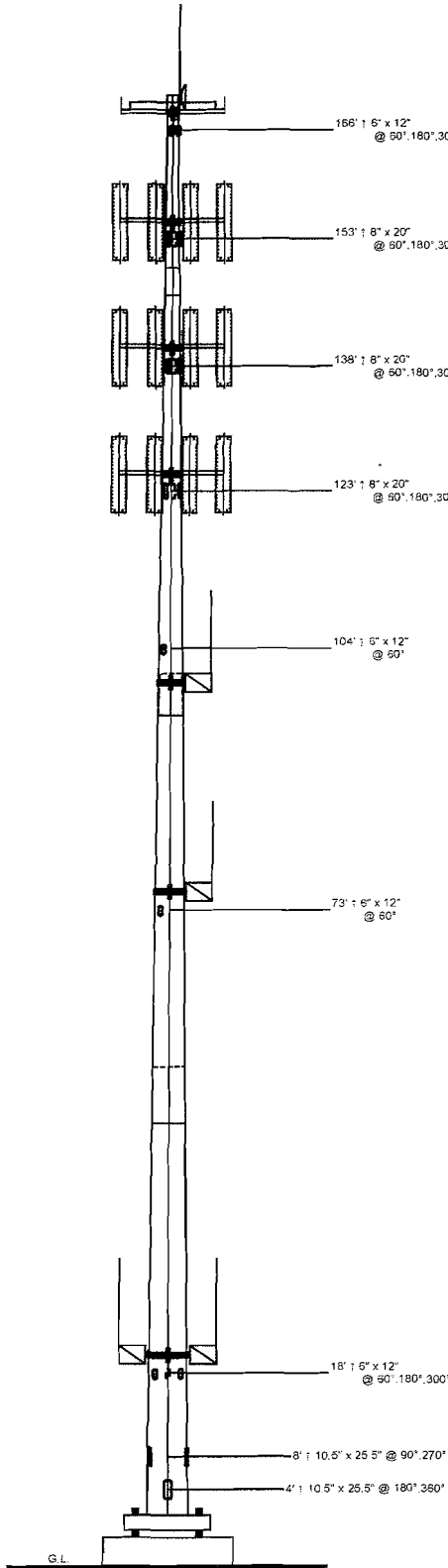
Job Number: 130727

October 22, 2015

Monopole Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Pole Calculations.....	4-14
Foundation Calculations.....	15-24



Section	1	2	3	4
Length (ft)	53'-3"	53'-6"	83'-6"	23'-6"
Number Of Sides	18	18	18	18
Thickness (in)	7/16"	6'-9"	5/16"	1/4"
Lap Splice (ft)	45.11'	33.42'	21.01'	16'
Top Diameter (in)	59.43"	47.8"	35.39"	22.38"
Bottom Diameter (in)	157.50"	107.92"	56.80"	15.31"
Taper (in/ft)	0.2688	AS72.65		
Grade				
Weight (lbs)	15750	10792	5680	1531
Overall Steel Height (ft)				



Designed Appurtenance Loading

Elev	Description	Tx-Line
181	(1) ATC-GD1V40	(2) 7/8"
170	(3) DB222s	(3) 7/8"
170	(1) SP3-5.2	(1) 5/8"
170	(6) 20" x 20" x 5" Junction Boxes	(6) 1/2"
168	Flush Mount (Monopole Only)	
168	(1) Dish Mount (Monopole Only) - Pipe Mount (up to 6' Dish)	
168	L.P. Platform (Monopole Only) - 12' w/ Handrail	
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	3R Sidearm	
86	(1) ATC-GD1V40	(2) 7/8"
75	3R Sidearm	
31.62	(3) DB224s	(3) 1/2"
20	(3) 3ft Sidearms	

Load Case Reactions

Description	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
3s Gusted Wind	63.07	48.51	6082.13	15.54	10.68
3s Gusted Wind 0.8 Dead	47.31	48.57	5982.56	15.17	10.39
3s Gusted Wind&Ice	106.02	12.74	1745.25	4.85	3.48
Service Loads	52.48	10.49	1311	3.43	2.32

Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	72.25"	2.25"	66.5"	18	2.25"

Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
64"	2.25"	2.625"	2179.8	A615-7S	Galv-18"

Material List

Display	Value
A	3'-3"

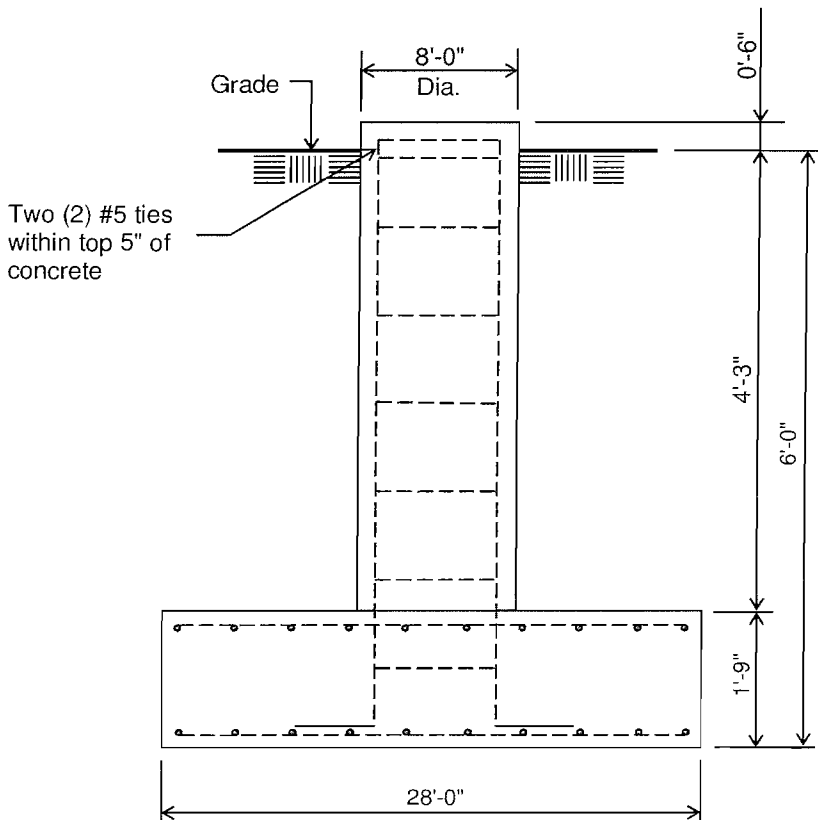
Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) 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

	Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone (712) 258-6690 Fax (712) 279-0814	Job: 130727 Customer: BOONE COUNTY Site Name: Battle School, MO Description: 170' Monopole Date: 10/22/2015
	<small>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or in part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</small>	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:

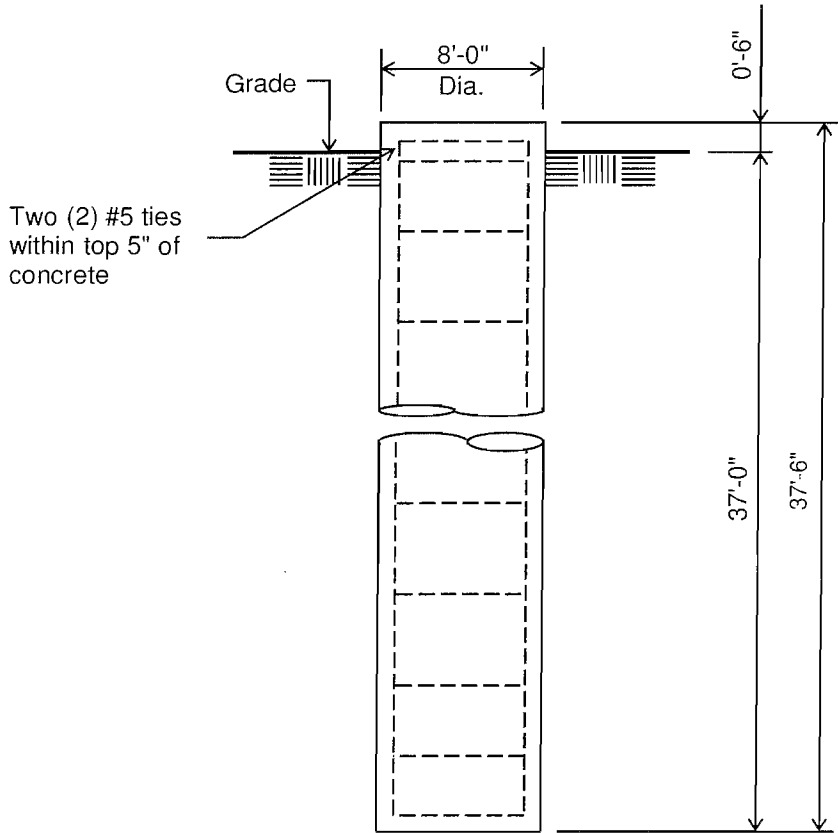
- 1). Concrete shall have a minimum 28-day compressive strength of 4500 PSI, in accordance with ACI 318-05
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by Crockett, 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) = 6082.13
Axial (kips) = 63.07
Shear (kips) = 48.51

Rebar Schedule per Pad and Pier	
Pier	(38) #9 vertical rebar w/ hooks at bottom w/ #5 ties, two within top 5" of top of pier then 12" C/C
Pad	(55) #8 horizontal rebar evenly spaced each way top and bottom (220 total)

8). 4.25 ft of soil cover is required over the entire area of the foundation slab.

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



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, 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) = 6082.13
Axial (kips) = 63.07
Shear (kips) = 48.51

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

Rebar Schedule per Pier	
Pier	(38) #10 vertical rebar w/#5 ties, two within top 5" of pier then 7" C/C

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

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	SECTION NAME	No.of SIDES	OUTSIDE DIAM in	THICK- NESS in	RESISTANCES ♦*Pn kip	♦*Mn ft-kip	SPLICE TYPE	...OVERLAP... LENGTH ft	RATIO
169.0	A	18	16.25	0.250	928.5	298.5			
148.5	A/B	18	21.83	0.250	1252.9	545.6	SLIP	3.25	1.78
145.2	B	18	22.23	0.312	1590.2	701.3			
100.0	B/C	18	34.56	0.312	2435.1	1686.9	SLIP	5.00	1.73
95.0	C	18	35.31	0.438	3542.6	2490.3			
53.2	C/D	18	46.68	0.438	4648.5	4346.7	SLIP	6.75	1.73
46.5	D	18	47.67	0.438	4720.5	4508.5			
0.0			60.34	0.438	5551.5	6739.0			

POLE ASSEMBLY
 =====

SECTION NAME	BASE ELEV ft	BOLTS NUMBER	TYPE	AT BASE DIAM in	OF SECTION STRENGTH ksi	THREADS IN SHEAR PLANE	CALC BASE ELEV ft
A	145.250	0	A325	0.00	92.0	0	145.250
B	95.000	0	A325	0.00	92.0	0	95.000
C	46.500	0	A325	0.00	92.0	0	46.500
D	0.000	0	A325	0.00	92.0	0	0.000

POLE SECTIONS
 =====

SECTION NAME	No.of SIDES	LENGTH ft	OUTSIDE DIAMETER BOT in	TOP in	THICK- NESS in	MAT- ERIAL ID	FLANGE.ID BOT	TOP	FLANGE.WELD ..GROUP.ID.. BOT	TOP
A	18	23.75	22.73	16.25	0.250	1	0	0	0	0
B	18	53.50	35.94	21.33	0.312	2	0	0	0	0
C	18	53.50	48.54	33.94	0.438	3	0	0	0	0
D	18	53.25	60.34	45.81	0.438	4	0	0	0	0

* - Diameter of circumscribed circle

MATERIAL TYPES
 =====

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT & deg	HEIGHT in	WIDTH in	.THICKNESS. WEB	FLANGE	IRREGULARITY .PROJECTION. % OF ORIENT AREA	deg
PL	1	1	0.0	22.73	0.25	0.250	0.250	0.00	0.0
PL	2	1	0.0	35.94	0.31	0.312	0.312	0.00	0.0
PL	3	1	0.0	48.54	0.44	0.438	0.438	0.00	0.0
PL	4	1	0.0	60.34	0.44	0.438	0.438	0.00	0.0

& - With respect to vertical

MATERIAL PROPERTIES

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

* Only 3 condition(s) shown in full

* Some concentrated wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

90 mph wind with no ice. wind Azimuth: 0°

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY RADIUS ft	LOAD AT AZI	LOAD AZI	.....FORCES..... HORIZ kip DOWN kip		.....MOMENTS..... VERTICAL ft-kip TORSNAL ft-kip	
C	180.000	0.00	0.0	0.0	0.0000	0.2333	0.0000	0.0000
C	180.000	0.00	0.0	0.0	0.6332	0.2966	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0000	0.1860	0.0000	0.0000
C	169.000	0.00	0.0	0.0	2.4134	0.6512	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.1303	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0056	0.2904	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.8056	0.0000	0.0000
C	167.000	0.00	0.0	0.0	1.4465	2.0208	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0225	0.2316	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.8829	0.0000	0.0000
C	154.000	0.00	0.0	0.0	8.5458	3.9504	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	2.6021	0.0000	0.0000
C	139.000	0.00	0.0	0.0	8.3646	3.9504	0.0000	0.0000
C	124.000	0.00	0.0	0.0	0.0000	2.3213	0.0000	0.0000
C	124.000	0.00	0.0	0.0	8.1674	3.9504	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.0000	0.1426	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.5590	0.2966	0.0000	0.0000
C	99.000	0.00	0.0	0.0	0.2718	0.4116	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0000	0.1102	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.5298	0.2966	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.2558	0.5760	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.0000	0.0441	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.5805	0.2383	0.0000	0.0000
C	19.000	0.00	0.0	0.0	0.3079	0.9360	0.0000	0.0000
D	169.000	0.00	180.0	0.0	0.0523	0.0541	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0625	0.0659	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0661	0.1561	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0661	0.1561	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0711	0.0958	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0711	0.0958	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0812	0.1120	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0812	0.1120	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0904	0.1283	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0904	0.1283	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0961	0.3303	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0961	0.3303	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0992	0.2055	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0992	0.2055	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.1055	0.2265	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.1055	0.2265	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.1104	0.2475	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.1104	0.2475	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.1129	0.5219	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.1129	0.5219	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.1119	0.2727	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.1119	0.2727	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.1112	0.2902	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.1112	0.2902	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.1064	0.3078	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.1064	0.3078	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.1079	0.3254	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.1079	0.3254	0.0000	0.0000

ANTENNA LOADING

.....ANTENNA.....	ATTACHMENT	ANTENNA FORCES.....					
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip

STD 169.0 0.0 1.4 0.0 0.62 0.00 130727 0.08 0.00

LOADING CONDITION M

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

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	180.000	0.00	0.0	0.0	0.0000	0.1750	0.0000	0.0000
C	180.000	0.00	0.0	0.0	0.6332	0.2225	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0000	0.1395	0.0000	0.0000
C	169.000	0.00	0.0	0.0	2.4134	0.4884	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.0977	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0056	0.2178	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.6042	0.0000	0.0000
C	167.000	0.00	0.0	0.0	1.4465	1.5156	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0225	0.1737	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.1622	0.0000	0.0000
C	154.000	0.00	0.0	0.0	8.5458	2.9628	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	1.9516	0.0000	0.0000
C	139.000	0.00	0.0	0.0	8.3646	2.9628	0.0000	0.0000
C	124.000	0.00	0.0	0.0	0.0000	1.7410	0.0000	0.0000
C	124.000	0.00	0.0	0.0	8.1674	2.9628	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.0000	0.1069	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.5590	0.2225	0.0000	0.0000
C	99.000	0.00	0.0	0.0	0.2718	0.3087	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0000	0.0826	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.5298	0.2225	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.2558	0.4320	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.0000	0.0331	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.5805	0.1787	0.0000	0.0000
C	19.000	0.00	0.0	0.0	0.3079	0.7020	0.0000	0.0000
D	169.000	0.00	180.0	0.0	0.0523	0.0406	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0625	0.0494	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0661	0.1171	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0661	0.1171	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0711	0.0718	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0711	0.0718	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0812	0.0840	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0812	0.0840	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0904	0.0962	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0904	0.0962	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0961	0.2478	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0961	0.2478	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0992	0.1541	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0992	0.1541	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.1055	0.1699	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.1055	0.1699	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.1104	0.1856	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.1104	0.1856	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.1129	0.3914	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.1129	0.3914	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.1119	0.2045	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.1119	0.2045	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.1112	0.2177	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.1112	0.2177	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.1064	0.2309	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.1064	0.2309	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.1079	0.2440	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.1079	0.2440	0.0000	0.0000

ANTENNA LOADING

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT		.....ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD	169.0	0.0	1.4	0.0	0.62	0.00	0.06	0.00

LOADING CONDITION Y

40 mph wind with 1 ice. Wind Azimuth: 0°

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	180.000	0.00	0.0	0.0	0.0000	0.2333	0.0000	0.0000
C	180.000	0.00	0.0	0.0	0.5126	0.8894	0.0000	0.0000

130727

C	169.000	0.00	0.0	0.0	0.0000	0.6567	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.9317	1.5525	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.1303	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0006	0.3139	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.8056	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.6909	2.8985	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0167	0.2316	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.8829	0.0000	0.0000
C	154.000	0.00	0.0	0.0	1.8751	8.8764	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	2.6021	0.0000	0.0000
C	139.000	0.00	0.0	0.0	1.8258	8.8265	0.0000	0.0000
C	124.000	0.00	0.0	0.0	0.0000	2.3213	0.0000	0.0000
C	124.000	0.00	0.0	0.0	1.7726	8.7716	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.0000	0.1426	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.4388	0.8611	0.0000	0.0000
C	99.000	0.00	0.0	0.0	0.0721	0.6909	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0000	0.1102	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.4068	0.8469	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0663	0.8474	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.0000	0.0441	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.3239	1.0001	0.0000	0.0000
C	19.000	0.00	0.0	0.0	0.0716	1.6494	0.0000	0.0000

D	169.000	0.00	180.0	0.0	0.0139	0.1264	0.0000	0.0000
D	162.167	0.00	180.0	0.0	0.0139	0.1264	0.0000	0.0000
D	162.167	0.00	180.0	0.0	0.0149	0.1386	0.0000	0.0000
D	155.333	0.00	180.0	0.0	0.0149	0.1386	0.0000	0.0000
D	155.333	0.00	180.0	0.0	0.0158	0.1507	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0158	0.1507	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0165	0.2455	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0165	0.2455	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0174	0.1916	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0174	0.1916	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0193	0.2209	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0193	0.2209	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0210	0.2498	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0210	0.2498	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0220	0.4600	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0220	0.4600	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0226	0.3403	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0226	0.3403	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0237	0.3715	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.0237	0.3715	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.0245	0.4017	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0245	0.4017	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0248	0.6821	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.0248	0.6821	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.0246	0.4351	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.0230	0.4754	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.0229	0.4842	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0229	0.4842	0.0000	0.0000

ANTENNA LOADING

.....ANTENNA.....	ATTACHMENT		.....ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD	169.0	0.0	1.4	0.0	0.09	0.00	0.31	0.00

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170' Monopole / Battle School, MO

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	.....DEFLECTIONS (ft).....			.....ROTATIONS (deg).....		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
169.0	15.54A	-0.39w	2.04A	10.68A	-0.33w	-0.02w
162.2	14.31A	-0.36w	1.81A	10.59A	-0.32w	-0.02w
155.3	13.10A	-0.32w	1.59A	10.39A	-0.30w	-0.02w
148.5	11.92A	-0.29w	1.38A	10.10A	-0.28w	-0.01w
145.2	11.36A	-0.27w	1.28A	9.94A	-0.28w	-0.01w
130.2	8.94A	-0.20w	0.88A	8.95A	-0.23w	-0.01w

					130727	
115.1	6.79A	-0.15w	0.57A	7.65A	-0.18w	-0.01w
100.0	5.00A	-0.11w	0.35A	6.19A	-0.14w	0.00w
95.0	4.48A	-0.10w	0.29A	5.84A	-0.13w	0.00w
81.1	3.19A	-0.07w	0.18A	4.83A	-0.11w	0.00w
67.2	2.14A	-0.04w	0.10A	3.87A	-0.08w	0.00w
53.2	1.32A	-0.03w	0.05A	2.98A	-0.06w	0.00w
46.5	0.99A	-0.02w	0.03A	2.56A	-0.05w	0.00w
34.9	0.55A	-0.01w	0.01A	1.86A	-0.04w	0.00K
23.2	0.24A	0.00w	0.00A	1.20A	-0.02w	0.00K
11.6	0.06A	0.00w	0.00A	0.58A	-0.01w	0.00K
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM ANTENNA ROTATIONS

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ELEV	ANT	ANT BEAM DEFLECTIONS (deg)			
ft	AZI	TYPE	ROLL	YAW	PITCH	TOTAL
	deg					
169.0	0.0	STD	10.410 D	0.878 C	10.685 A	10.685 A

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

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MAST	TOTAL	SHEAR.w.r.t.	WIND.DIR	MOMENT.w.r.t.	WIND.DIR	TORSION
ELEV	AXIAL	ALONG	ACROSS	ALONG	ACROSS	
ft	kip	kip	kip	ft-kip	ft-kip	ft-kip
169.0	3.65 c	3.66 A	0.52 o	-7.08 G	-0.43 h	-0.42 u
162.2	8.89 c	5.50 A	0.52 o	-44.17 A	3.50 K	0.51 c
	8.89 c	5.52 A	0.52 c	-44.15 A	3.49 K	0.51 c
155.3	9.84 c	5.90 A	0.52 c	-88.47 A	-7.12 C	0.97 c
	9.84 c	5.90 A	0.52 o	-88.45 A	7.13 K	0.97 c
148.5	22.63 c	14.86 A	0.52 o	-187.90 A	10.88 K	1.22 c
	22.63 Z	14.91 X	-0.56 w	-188.12 A	-10.89 C	1.24 C
145.2	23.43 z	15.13 X	-0.56 w	-242.27 A	12.68 K	1.31 c
	23.43 a	15.19 A	-0.65 w	-242.44 A	12.77 K	1.33 c
130.2	37.75 a	24.61 A	-0.65 w	-588.62 A	22.92 w	-1.64 w
	37.75 c	24.57 A	-0.71 w	-588.63 A	22.91 w	-1.64 w
115.1	52.17 c	33.95 A	-0.71 w	-1087.42 A	34.26 w	-1.79 w
	52.17 c	33.97 A	-0.72 w	-1087.41 A	34.26 w	-1.79 w
100.0	56.94 c	35.88 A	-0.72 w	-1662.87 A	45.74 w	-1.84 w
	56.94 c	35.97 M	-0.67 w	-1662.89 A	45.75 w	-1.84 w
95.0	59.93 c	36.72 M	-0.67 w	-1859.57 A	49.29 w	-1.84 w
	59.93 c	36.64 M	-0.74 w	-1859.88 A	49.22 w	-1.82 w
81.1	65.62 c	38.55 M	-0.74 w	-2421.76 A	59.99 w	-1.89 w
	65.61 a	38.62 M	-0.74 w	-2421.79 A	59.98 w	-1.88 w
67.2	71.63 a	40.34 M	-0.74 w	-3007.62 A	70.79 w	-1.94 w
	71.63 a	40.34 M	-0.73 w	-3007.63 A	70.81 w	-1.94 w
53.2	77.22 a	41.87 M	-0.73 w	-3611.64 A	81.44 w	-1.97 w
	77.22 a	41.85 M	-0.74 w	-3611.62 A	81.43 w	-1.97 w
46.5	81.82 a	42.61 M	-0.74 w	-3910.67 A	86.56 w	-1.98 w
	81.82 a	42.59 M	-0.72 w	-3910.65 A	86.56 w	-1.98 w
34.9	86.96 a	43.89 M	-0.72 w	-4434.10 A	95.15 w	-1.99 w
	86.96 a	43.89 M	-0.71 w	-4434.10 A	95.15 w	-1.99 w

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23.2	93.29 a	45.77 M	-0.71 w	-4971.19 A	103.63 w	-1.99 w
	93.29 a	45.78 M	-0.73 w	-4971.19 A	103.64 w	-1.99 w
11.6	100.39 a	47.32 M	-0.73 w	-5522.04 A	112.22 w	2.08 K
	100.39 a	47.32 M	-0.72 w	-5522.04 A	112.21 w	2.08 K
	106.02 a	48.57 M	-0.72 w	-6082.13 A	120.67 w	2.11 K
base reaction	106.02 a	-48.57 M	0.72 w	6082.13 A	-120.67 w	-2.11 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	0.00c	0.02G	0.01A	0.03G	YES	9.52A	45.2
162.17	0.01c	0.12A	0.01A	0.12A	YES	10.82A	45.2
	0.01c	0.12A	0.01A	0.12A	YES	10.82A	45.2
155.33	0.01c	0.19A	0.01A	0.20A	YES	12.11A	45.2
	0.01c	0.19A	0.01A	0.20A	YES	12.11A	45.2
148.50	0.02c	0.34A	0.02A	0.35A	YES	13.41A	45.2
	0.01Z	0.28A	0.02X	0.29A	YES	10.37A	45.2
145.25	0.01Z	0.33A	0.02X	0.34A	YES	10.87A	45.2
	0.01a	0.35A	0.02A	0.35A	YES	10.59A	45.2
130.17	0.02a	0.59A	0.03A	0.61A	YES	12.87A	45.2
	0.02c	0.59A	0.03A	0.61A	YES	12.87A	45.2
115.08	0.02c	0.82A	0.03A	0.83A	YES	15.16A	45.2
	0.02c	0.82A	0.03A	0.83A	YES	15.16A	45.2
100.00	0.02c	0.99A	0.03A	1.00A	YES	17.45A	45.2
	0.02c	0.70A	0.02M	0.71A	YES	11.96A	45.2
95.00	0.02c	0.72A	0.02M	0.73A	YES	12.50A	45.2
	0.02c	0.75A	0.02M	0.76A	YES	12.25A	45.2
81.08	0.02c	0.79A	0.02M	0.80A	YES	13.76A	45.2
	0.02a	0.79A	0.02M	0.80A	YES	13.76A	45.2
67.17	0.02a	0.81A	0.02M	0.82A	YES	15.26A	45.2
	0.02a	0.81A	0.02M	0.82A	YES	15.26A	45.2
53.25	0.02a	0.83A	0.02M	0.84A	YES	16.77A	45.2
	0.02a	0.83A	0.02M	0.84A	YES	16.77A	45.2
46.50	0.02a	0.84A	0.02M	0.85A	YES	17.50A	45.2
	0.02a	0.87A	0.02M	0.88A	YES	17.15A	45.2
34.87	0.02a	0.88A	0.02M	0.89A	YES	18.41A	45.2
	0.02a	0.88A	0.02M	0.89A	YES	18.41A	45.2
23.25	0.02a	0.89A	0.02M	0.90A	YES	19.67A	45.2
	0.02a	0.89A	0.02M	0.90A	YES	19.67A	45.2
11.62	0.02a	0.90A	0.02M	0.91A	YES	20.93A	45.2
	0.02a	0.90A	0.02M	0.91A	YES	20.93A	45.2
0.00	0.02a	0.90A	0.02M	0.91A	YES	22.19A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

=====

DOWN kip	SHEAR,w.r.t.WIND.DIR ALONG kip	ACROSS WIND.DIR ACROSS kip	MOMENT,w.r.t.WIND.DIR ALONG ft-kip	ACROSS WIND.DIR ACROSS ft-kip	TORSION ft-kip
106.02	48.57	-0.72	-6082.13	120.67	2.11

=====
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 =====

170' monopole / Battle School, MO

 ***** Service Load Condition *****

* Only 1 condition(s) shown in full
 * Some concentrated wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A =====

60 mph wind with no ice. Wind Azimuth: 0°

LOADS ON POLE
 =====

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	180.000	0.00	0.0	0.0	0.0000	0.1944	0.0000	0.0000
C	180.000	0.00	0.0	0.0	0.1369	0.2472	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.0000	0.1550	0.0000	0.0000
C	169.000	0.00	0.0	0.0	0.5216	0.5427	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.1085	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0012	0.2420	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0000	0.6713	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.3126	1.6840	0.0000	0.0000
C	167.000	0.00	0.0	0.0	0.0049	0.1930	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.4024	0.0000	0.0000
C	154.000	0.00	0.0	0.0	1.8469	3.2920	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	2.1684	0.0000	0.0000
C	139.000	0.00	0.0	0.0	1.8078	3.2920	0.0000	0.0000
C	124.000	0.00	0.0	0.0	0.0000	1.9344	0.0000	0.0000
C	124.000	0.00	0.0	0.0	1.7651	3.2920	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.0000	0.1188	0.0000	0.0000
C	110.000	0.00	0.0	0.0	0.1208	0.2472	0.0000	0.0000
C	99.000	0.00	0.0	0.0	0.0587	0.3430	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0000	0.0918	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.1145	0.2472	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0553	0.4800	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.0000	0.0367	0.0000	0.0000
C	30.620	0.00	0.0	0.0	0.1254	0.1986	0.0000	0.0000
C	19.000	0.00	0.0	0.0	0.0665	0.7800	0.0000	0.0000
D	169.000	0.00	180.0	0.0	0.0113	0.0451	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0135	0.0549	0.0000	0.0000
D	148.500	0.00	180.0	0.0	0.0143	0.1301	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0143	0.1301	0.0000	0.0000
D	145.250	0.00	180.0	0.0	0.0154	0.0798	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0154	0.0798	0.0000	0.0000
D	130.167	0.00	180.0	0.0	0.0175	0.0934	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0175	0.0934	0.0000	0.0000
D	115.083	0.00	180.0	0.0	0.0195	0.1069	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0195	0.1069	0.0000	0.0000
D	100.000	0.00	180.0	0.0	0.0208	0.2753	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0208	0.2753	0.0000	0.0000
D	95.000	0.00	180.0	0.0	0.0214	0.1713	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0214	0.1713	0.0000	0.0000
D	81.083	0.00	180.0	0.0	0.0228	0.1888	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.0228	0.1888	0.0000	0.0000
D	67.167	0.00	180.0	0.0	0.0239	0.2062	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0239	0.2062	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0244	0.4349	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.0244	0.4349	0.0000	0.0000
D	46.500	0.00	180.0	0.0	0.0242	0.2272	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.0242	0.2272	0.0000	0.0000
D	34.875	0.00	180.0	0.0	0.0240	0.2419	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.0240	0.2419	0.0000	0.0000
D	23.250	0.00	180.0	0.0	0.0230	0.2565	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.0230	0.2565	0.0000	0.0000
D	11.625	0.00	180.0	0.0	0.0233	0.2712	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0233	0.2712	0.0000	0.0000

ANTENNA LOADING

```

=====
.....ANTENNA.....
TYPE      ELEV      AZI      ATTACHMENT
         ft      ft      RAD      AZI
         ft      ft      ft      ft
.....ANTENNA FORCES.....
         AXIAL      SHEAR      GRAVITY      TORSION
         kip      kip      kip      ft-kip
=====
STD      169.0      0.0      1.4      0.0      0.13      0.00      0.06      0.00
=====

```

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

```

=====
MAST      .....DEFLECTIONS (ft).....
ELEV      .....HORIZONTAL .....
ft        ALONG      ACROSS      DOWN
.....ROTATIONS (deg).....
         TILT      TWIST
         ALONG      ACROSS
=====
169.0      3.43A      0.08C      0.10A      2.32A      0.07C      0.00E
162.2      3.15A      0.07C      0.09A      2.30A      0.07C      0.00E
155.3      2.88A      0.06C      0.08A      2.26A      0.06C      0.00E
148.5      2.62A      0.06C      0.07A      2.19A      0.06C      0.00E
145.2      2.49A      0.05C      0.06A      2.16A      0.06C      0.00E
130.2      1.95A      0.04C      0.04A      1.94A      0.05C      0.00E
115.1      1.48A      0.03C      0.03A      1.66A      0.04C      0.00E
100.0      1.08A      0.02C      0.02A      1.34A      0.03C      0.00E
95.0       0.97A      0.02C      0.02A      1.26A      0.03C      0.00E
81.1       0.69A      0.01C      0.01A      1.04A      0.02C      0.00E
67.2       0.46A      0.01C      0.01A      0.83A      0.02C      0.00E
53.2       0.28A      0.01C      0.00A      0.64A      0.01C      0.00E
46.5       0.21A      0.00C      0.00A      0.55A      0.01C      0.00E
34.9       0.12A      0.00C      0.00A      0.40A      0.01C      0.00E
23.2       0.05A      0.00C      0.00A      0.26A      0.00C      0.00E
11.6       0.01A      0.00C      0.00L      0.12A      0.00C      0.00E
0.0        0.00A      0.00A      0.00A      0.00A      0.00A      0.00A
=====

```

MAXIMUM ANTENNA ROTATIONS

```

=====
ELEV      ANT      ANT
ft        AZI     TYPE
deg       deg
..... BEAM DEFLECTIONS (deg) .....
         ROLL      YAW      PITCH      TOTAL
=====
169.0      0.0     STD      2.253 D      0.042 C      2.324 A      2.324 A
=====

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

```

=====
MAST      TOTAL      SHEAR w.r.t. WIND.DIR      MOMENT w.r.t. WIND.DIR      TORSION
ELEV      AXIAL      ALONG      ACROSS      ALONG      ACROSS      ft-kip
ft        kip      kip      kip      ft-kip      ft-kip
=====
169.0      1.20 C      0.79 A      0.11 C      -1.60 G      0.09 D      -0.09 I
162.2      4.42 C      1.19 A      0.11 C      -9.57 A      -0.72 C      0.09 E
         4.42 D      1.19 A      -0.11 K      -9.57 A      -0.73 C      0.09 E
155.3      4.76 D      1.28 A      -0.11 K      -19.25 A      1.52 K      0.09 E
         4.77 L      1.27 A      0.11 C      -19.24 A      1.53 K      0.09 E
148.5      10.82 L      3.21 A      0.11 C      -40.91 A      -2.37 C      0.09 E
         10.83 L      3.21 L      0.11 C      -40.92 A      -2.37 C      0.09 E
145.2      11.25 L      3.26 L      0.11 C      -52.79 A      -2.76 C      0.09 E
         11.25 E      3.26 A      0.13 C      -52.83 A      -2.77 C      0.09 E
130.2      17.92 E      5.30 A      0.13 C      -127.83 A      -5.00 C      0.09 E
         17.91 L      5.31 A      0.13 C      -127.83 A      -5.00 C      0.09 E
         24.55 L      7.34 A      0.13 C      -235.90 A      -7.26 C      0.10 E
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115.1	24.55 L	7.34 A	0.13 C	-235.89 A	-7.26 C	0.10 E
	26.53 L	7.76 A	0.13 C	-360.08 A	-9.50 C	0.11 E
100.0	26.53 L	7.75 A	0.13 C	-360.08 A	-9.50 C	0.11 E
	28.25 L	7.91 A	0.13 C	-402.40 A	-10.23 C	0.11 E
95.0	28.25 L	7.91 A	0.12 C	-402.41 A	-10.24 C	0.11 E
	30.97 L	8.33 A	0.12 C	-523.27 A	-12.05 C	0.12 E
81.1	30.97 L	8.33 A	0.12 C	-523.27 A	-12.06 C	0.12 E
	34.07 L	8.70 A	0.12 C	-649.08 A	-13.85 C	0.12 E
67.2	34.07 L	8.70 A	0.12 C	-649.08 A	-13.85 C	0.12 E
	36.94 L	9.03 A	0.12 C	-778.78 A	-15.61 C	0.13 E
53.2	36.94 L	9.03 A	0.12 C	-778.78 A	-15.60 C	0.13 E
	39.88 L	9.20 A	0.12 C	-842.98 A	-16.44 C	0.13 E
46.5	39.88 L	9.20 A	0.12 C	-843.00 A	-16.45 C	0.13 E
	42.52 L	9.48 A	0.12 C	-955.52 A	-17.88 C	0.13 E
34.9	42.52 L	9.48 A	0.12 C	-955.52 A	-17.88 C	0.13 E
	45.57 L	9.88 A	0.12 C	-1071.21 A	-19.28 C	0.13 E
23.2	45.57 L	9.89 A	0.12 C	-1071.21 A	-19.28 C	0.13 E
	49.33 L	10.22 A	0.12 C	-1190.00 A	-20.68 C	0.13 E
11.6	49.33 L	10.22 A	0.12 C	-1190.00 A	-20.68 C	0.13 E
	52.48 L	10.49 A	0.12 C	-1311.00 A	-22.05 C	0.13 E

base reaction	52.48 L	-10.49 A	-0.12 C	1311.00 A	22.05 C	-0.13 E

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
169.00	0.00C	0.01G	0.00A	0.01G	YES	9.52A	45.2
	0.00C	0.03A	0.00A	0.03A	YES	10.82A	45.2
162.17	0.00D	0.03A	0.00A	0.03A	YES	10.82A	45.2
	0.00D	0.04A	0.00A	0.05A	YES	12.11A	45.2
155.33	0.00L	0.04A	0.00A	0.05A	YES	12.11A	45.2
	0.01L	0.07A	0.01A	0.08A	YES	13.41A	45.2
148.50	0.01L	0.06A	0.00L	0.07A	YES	10.37A	45.2
	0.01L	0.07A	0.00L	0.08A	YES	10.87A	45.2
145.25	0.01E	0.08A	0.00A	0.08A	YES	10.59A	45.2
	0.01E	0.13A	0.01A	0.14A	YES	12.87A	45.2
130.17	0.01L	0.13A	0.01A	0.14A	YES	12.87A	45.2
	0.01L	0.18A	0.01A	0.19A	YES	15.16A	45.2
115.08	0.01L	0.18A	0.01A	0.19A	YES	15.16A	45.2
	0.01L	0.21A	0.01A	0.22A	YES	17.45A	45.2
100.00	0.01L	0.15A	0.00A	0.16A	YES	11.96A	45.2
	0.01L	0.16A	0.00A	0.16A	YES	12.50A	45.2
95.00	0.01L	0.16A	0.00A	0.17A	YES	12.25A	45.2
	0.01L	0.17A	0.00A	0.18A	YES	13.76A	45.2
81.08	0.01L	0.17A	0.00A	0.18A	YES	13.76A	45.2
	0.01L	0.18A	0.00A	0.18A	YES	15.26A	45.2
67.17	0.01L	0.18A	0.00A	0.18A	YES	15.26A	45.2
	0.01L	0.18A	0.00A	0.19A	YES	16.77A	45.2

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53.25	0.01L	0.18A	0.00A	0.19A	YES	16.77A	45.2
46.50	0.01L	0.18A	0.00A	0.19A	YES	17.50A	45.2
	0.01L	0.19A	0.00A	0.20A	YES	17.15A	45.2
34.87	0.01L	0.19A	0.00A	0.20A	YES	18.41A	45.2
	0.01L	0.19A	0.00A	0.20A	YES	18.41A	45.2
23.25	0.01L	0.19A	0.00A	0.20A	YES	19.67A	45.2
	0.01L	0.19A	0.00A	0.20A	YES	19.67A	45.2
11.62	0.01L	0.19A	0.00A	0.20A	YES	20.93A	45.2
	0.01L	0.19A	0.00A	0.20A	YES	20.93A	45.2
0.00	0.01L	0.19A	0.00A	0.20A	YES	22.19A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN	SHEAR.w.r.t.WIND.DIR	MOMENT.w.r.t.WIND.DIR	TORSION
kip	ALONG kip	ACROSS ft-kip	ft-kip
52.48	10.49	-1311.00	0.13
L	A	A	E

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

Pole Data

Diameter: 59.430 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: 6082.13 ft-kips
 Axial, Pu: 63.07 kips
 Shear, Vu: 48.51 kips

Anchor Rod Data

Quantity: 18
 Diameter: 2.25 in
 Rod Material: A615
 Strength (Fu): 100 ksi
 Yield (Fy): 75 ksi
 BC Diam. (in): 66.5 BC Override:

Anchor Rod Results

Maximum Rod (Pu+ Vu/η): 252.8 Kips
 Allowable Φ^*Rnt : 260.0 Kips (per 4.9.9)
 Anchor Rod Interaction Ratio: **97.2% Pass**

Plate Data

Diameter (in): 72.25 Dia. Override:
 Thickness: 2.25 in
 Yield (Fy): 50 ksi
 Eff Width/Rod: 10.48 in
 Drain Hole: 2.625 in. diameter
 Drain Location: 27.5 in. center of pole to center of drain hole
 Center Hole: 47 in. diameter

Base Plate Results

Base Plate (Mu/Z): 42.0 ksi
 Allowable Φ^*Fy : 45.0 ksi (per AISC)
 Base Plate Interaction Ratio: **93.4% Pass**

MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES

170' Monopole BOONE COUNTY Battle School, MO (130727) 10-22-15 BD

Overall Loads:

Factored Moment (ft-kips)	6082.13
Factored Axial (kips)	63.07
Factored Shear (kips)	48.51
Bearing Design Strength (ksf)	4.5
Water Table Below Grade (ft)	28
Width of Mat (ft)	28
Thickness of Mat (ft)	1.75
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	18
Bolt Circle Diameter (in)	66.5
Top of Concrete to Top of Bottom Threads (in)	60
Diameter of Pier (ft)	8
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4.25
Quantity of Bars in Mat	55
Bar Diameter in Mat (in)	1
Area of Bars in Mat (in ²)	43.20
Spacing of Bars in Mat (in)	6.09
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 ²)	37.97
Spacing of Bars in Pier (in)	7.24
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Soil (kcf)	0.12
Unit Wt. of Concrete (kcf)	0.15

Max. Net Bearing Press. (ksf)	4.22
Allowable Bearing Pressure (ksf)	3.00
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	6.00
Bearing Φ_s	0.75

Minimum Pier Diameter (ft)	7.04
Equivalent Square b (ft)	7.09

Recommended Spacing (in)	6 to 12
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Minimum Pier A _s (in ²)	36.19
Recommended Spacing (in)	6 to 12

Volume of Concrete (yd³) 59.66

Two-Way Shear Action:

Average d (in)	17
ϕV_c (kips)	1347.4
$\phi V_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}b_o d$	2064.7
$\phi V_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}b_o d$	1347.4
$\phi V_c = \phi 4f'_c{}^{1/2}b_o d$	1376.5
Shear perimeter, b _o (in)	355.00
β_c	1

V _u (kips)	104.9
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One-Way Shear:

ϕV_c (kips)	651.4
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V _u (kips)	409.7
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Stability:

Overturning Design Strength (ft-k)	8421.6
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Total Applied M (ft-k)	6397.4
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Pier Design:

ϕV_n (kips)	844.5	V_u (kips)	48.5
$\phi V_c = \phi 2(1 + N_u / (2000 A_g)) f'_c{}^{1/2} b_w d$	844.5		
V_s (kips)	0.0	*** $V_s \text{ max} = 4 f'_c{}^{1/2} b_w d$ (kips)	1978.3
Maximum Spacing (in)	7.62	(Only if Shear Ties are Required)	
Actual Hook Development (in)	16.00	Req'd Hook Development l_{dh} (in)	14.12

*** Ref. To Spacing Requirements ACI 11.5.4.3

Flexure in Slab:

ϕM_n (ft-kips)	3108.6	M_u (ft-kips)	3084.0
a (in)	2.02		
Steel Ratio	0.00756		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	122.46	Required Development in Pad (in)	26.57

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
Overtuning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1

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LPILE Plus for windows, Version 2013-07.005
 Analysis of Individual Piles and Drilled Shafts
 Subjected to Lateral Loading Using the p-y Method

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Files Used for Analysis

Path to file locations: C:\Progra~2\Ensoft\Lpile2013\
 Name of input data file: 130727.lp7d
 Name of output report file: 130727.lp7o
 Name of plot output file: 130727.lp7p
 Name of runtime message file: 130727.lp7r

Date and Time of Analysis

Date: October 22, 2015 Time: 14:29:47

Problem Title

170' Monopole BOONE COUNTY Battle School, MO (130727) 10-22-15 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 = 300
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100.0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:

- Static loading specified

Computational 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
- 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 = 1
 Total length of pile = 37.50 ft
 Depth of ground surface below top of pile = 0.50 ft
 Pile diameter values used for p-y curve computations are defined using 2 points.
 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	0.00000	96.0000000
2	37.500000	96.0000000

 Input Structural Properties:

Pile Section No. 1:

Section Type = Drilled Shaft (Bored Pile)
 Section Length = 37.50000 ft
 Section Diameter = 96.00000 in

 Ground Slope and Pile Batter 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 = 0.50000 ft
 Distance from top of pile to bottom of layer = 3.50000 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 = 14.40000 psf
 Undrained cohesion at bottom of layer = 14.40000 psf
 Epsilon-50 at top of layer = 0.10000
 Epsilon-50 at bottom of layer = 0.10000

Layer 2 is stiff clay without free water

Distance from top of pile to top of layer = 3.50000 ft
 Distance from top of pile to bottom of layer = 13.50000 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 = 1249.92000 psf
 Undrained cohesion at bottom of layer = 1249.92000 psf
 Epsilon-50 at top of layer = 0.00900
 Epsilon-50 at bottom of layer = 0.00900

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

Distance from top of pile to top of layer = 30.50000 ft
 Distance from top of pile to bottom of layer = 50.50000 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 = 2499.84000 psf
 Undrained cohesion at bottom of layer = 2499.84000 psf
 Epsilon-50 at top of layer = 0.00600
 Epsilon-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	124.934	14.400	0.10000
		3.500	124.934	14.400	0.10000
2	Stiff Clay w/o Free Water	3.500	124.934	1249.920	0.00900
		13.500	124.934	1249.920	0.00900
3	Stiff Clay w/o Free Water	13.500	124.934	2999.520	0.00500
		28.500	124.934	2999.520	0.00500
4	Stiff Clay w/o Free Water	28.500	62.554	2999.520	0.00500
		30.500	62.554	2999.520	0.00500
5	Stiff Clay w/o Free Water	30.500	62.554	2499.840	0.00600
		50.500	62.554	2499.840	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 = 64680. lbs	M = 97314080. in-lbs	84093.	No

V = perpendicular shear force applied to pile head
 M = bending moment applied to pile head
 y = lateral deflection relative to pile axis
 S = pile slope relative to original pile batter angle
 R = rotational stiffness applied 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):

Length of Section = 37.50000 ft
 Shaft Diameter = 96.00000 in
 Concrete Cover Thickness = 3.62419 in
 Number of Reinforcing Bars = 38 bars
 Yield Stress of Reinforcing Bars = 60000. psi
 Modulus of Elasticity of Reinforcing Bars = 29000000. psi
 Gross Area of Shaft = 7238.22947 sq. in.
 Total Area of Reinforcing Steel = 48.26000 sq. in.
 Area Ratio of Steel Reinforcement = 0.67 percent
 Edge-to-Edge Bar Spacing = 5.95417 in
 Maximum Concrete Aggregate Size = 0.75000 in
 Ratio of Bar Spacing to Aggregate Size = 7.94
 Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$ = 27341.497 kips

Tensile Load for Cracking of Concrete
 Nominal Axial Tensile Capacity

130727.lpo
 = -3151.843 kips
 = -2895.600 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.27000	1.27000	43.74081	0.00000
2	1.27000	1.27000	43.14424	7.19950
3	1.27000	1.27000	41.37081	14.20262
4	1.27000	1.27000	38.46889	20.81832
5	1.27000	1.27000	34.51764	26.86616
6	1.27000	1.27000	29.62484	32.18116
7	1.27000	1.27000	23.92396	36.61834
8	1.27000	1.27000	17.57048	40.05667
9	1.27000	1.27000	10.73773	42.40235
10	1.27000	1.27000	3.61209	43.59141
11	1.27000	1.27000	-3.61209	43.59141
12	1.27000	1.27000	-10.73773	42.40235
13	1.27000	1.27000	-17.57048	40.05667
14	1.27000	1.27000	-23.92396	36.61834
15	1.27000	1.27000	-29.62484	32.18116
16	1.27000	1.27000	-34.51764	26.86616
17	1.27000	1.27000	-38.46889	20.81832
18	1.27000	1.27000	-41.37081	14.20262
19	1.27000	1.27000	-43.14424	7.19950
20	1.27000	1.27000	-43.74081	0.00000
21	1.27000	1.27000	-43.14424	-7.19950
22	1.27000	1.27000	-41.37081	-14.20262
23	1.27000	1.27000	-38.46889	-20.81832
24	1.27000	1.27000	-34.51764	-26.86616
25	1.27000	1.27000	-29.62484	-32.18116
26	1.27000	1.27000	-23.92396	-36.61834
27	1.27000	1.27000	-17.57048	-40.05667
28	1.27000	1.27000	-10.73773	-42.40235
29	1.27000	1.27000	-3.61209	-43.59141
30	1.27000	1.27000	3.61209	-43.59141
31	1.27000	1.27000	10.73773	-42.40235
32	1.27000	1.27000	17.57048	-40.05667
33	1.27000	1.27000	23.92396	-36.61834
34	1.27000	1.27000	29.62484	-32.18116
35	1.27000	1.27000	34.51764	-26.86616
36	1.27000	1.27000	38.46889	-20.81832
37	1.27000	1.27000	41.37081	-14.20262
38	1.27000	1.27000	43.14424	-7.19950

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

Minimum spacing between any two bars not equal to zero = 5.95417 inches between Bars 26 and 27

Spacing to aggregate size ratio = 7.93890

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	84.093

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 = 84.093 kips

Bending Curvature rad/in.	Bending Moment in-kip	Bending Stiffness kip-in ²	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in	Max Concrete Stress ksi	Max Steel Stress ksi	Run Msg
-----	-----	-----	-----	-----	-----	-----	-----	-----

130727. lpo
0.000000313 5867.7942909 18776941731. 56.4651367 0.0000176 -0.0000124 0.0738567 0.5073653
0.000000625 11707. 18731597466. 52.2461914 0.0000327 -0.0000273 0.1360415 0.9382622
0.000000938 17517. 18685054549. 50.8399826 0.0000477 -0.0000423 0.1977304 1.3691620
0.000001250 23298. 18638208298. 50.1369322 0.0000627 -0.0000573 0.2589231 1.8000638
0.000001563 29049. 18591240321. 49.7151409 0.0000777 -0.0000723 0.3196196 2.2309673
0.000001875 34770. 18544211435. 49.4339789 0.0000927 -0.0000873 0.3798200 2.6618726
0.000002188 40463. 18497147716. 49.2331760 0.0001077 -0.0001023 0.4395242 3.0927796
0.000002500 40463. 16185004252. 25.2740319 0.0000632 -0.0001768 0.2585700 -5.0928327 C
0.000002813 40463. 14386670446. 24.7915823 0.0000697 -0.0002003 0.2847397 -5.7687866 C
0.000003125 40463. 12948003401. 24.4032900 0.0000763 -0.0002237 0.3107878 -6.4449518 C
0.000003438 40463. 11770912183. 24.0746360 0.0000828 -0.0002472 0.3365915 -7.1222097 C
0.000003750 40463. 10790002835. 23.8017042 0.0000893 -0.0002707 0.3623189 -7.7993647 C
0.000004063 40463. 9960002617. 23.5716380 0.0000958 -0.0002942 0.3879700 -8.4764164 C
0.000004375 40463. 9248573858. 23.3681732 0.0001022 -0.0003178 0.4134202 -9.1542630 C
0.000004688 40463. 8632002268. 23.1904303 0.0001087 -0.0003413 0.4387541 -9.8323009 C
0.000005000 40463. 8092502126. 23.0356385 0.0001152 -0.0003648 0.4640129 -10.5102324 C
0.000005313 40463. 7616472589. 22.8997496 0.0001217 -0.0003883 0.4891963 -11.1880573 C
0.000005625 40463. 7193335223. 22.7796151 0.0001281 -0.0004119 0.5143043 -11.8657753 C
0.000005938 40463. 6814738632. 22.6727491 0.0001346 -0.0004354 0.5393369 -12.5433860 C
0.000006250 40463. 6474001701. 22.5771631 0.0001411 -0.0004589 0.5642938 -13.2208892 C
0.000006563 40463. 6165715905. 22.4877390 0.0001476 -0.0004824 0.5890847 -13.8989521 C
0.000006875 40463. 5885456092. 22.4062098 0.0001540 -0.0005060 0.6137796 -14.5770619 C
0.000007188 40463. 5629566696. 22.3323079 0.0001605 -0.0005295 0.6383999 -15.2550596 C
0.000007500 40463. 5395001417. 22.2650815 0.0001670 -0.0005530 0.6629453 -15.9329448 C
0.000007813 40463. 5179201361. 22.2037310 0.0001735 -0.0005765 0.6874158 -16.6107172 C
0.000008125 40463. 4980001308. 22.1475801 0.0001799 -0.0006001 0.7118112 -17.2883764 C
0.000008438 40463. 4795556815. 22.0960524 0.0001864 -0.0006236 0.7361315 -17.9659222 C
0.000008750 40463. 4624286929. 22.0486539 0.0001929 -0.0006471 0.7603765 -18.6433540 C
0.000009063 40463. 4464828759. 22.0049589 0.0001994 0.7845460 -19.3206717 C
0.000009375 40463. 4316001134. 21.9645983 0.0002059 -0.0006941 0.8086401 -19.9978748 C
0.000009688 40463. 4176775291. 21.9272507 0.0002124 -0.0007176 0.8326585 -20.6749630 C
0.0000100 40463. 4046251063. 21.8926349 0.0002189 -0.0007411 0.8566011 -21.3519359 C
0.0000103 40463. 3923637394. 21.8605038 0.0002254 0.8804678 -22.0287931 C
0.0000106 40463. 3808236295. 21.8306393 0.0002320 -0.0007880 0.9042585 -22.7055342 C
0.0000109 40463. 3699429543. 21.8028483 0.0002385 -0.0008115 0.9279730 -23.3821590 C
0.0000113 40463. 3596667612. 21.7769592 0.0002450 0.9516113 -24.0586670 C
0.0000116 40463. 3499460379. 21.7528188 0.0002515 -0.0008585 0.9751732 -24.7350579 C
0.0000119 40463. 3407369316. 21.7302903 0.0002580 -0.0008820 0.9986585 -25.4113313 C
0.0000122 40463. 3320000872. 21.7092506 0.0002646 -0.0009054 1.0222067 -26.0874867 C
0.0000128 40463. 3158049610. 21.6712062 0.0002777 -0.0009523 1.0688542 -27.4394424 C
0.0000134 40476. 3012153313. 21.6379228 0.0002908 -0.0009992 1.1149329 -28.7909219 C
0.0000141 42235. 3003343016. 21.6087732 0.0003039 -0.0010461 1.1609026 -30.1419221 C
0.0000147 43992. 2995178129. 21.5823402 0.0003170 -0.0010930 1.2065153 -31.4928219 C
0.0000153 45747. 2987581207. 21.5587811 0.0003301 -0.0011399 1.2517972 -32.8434037 C
0.0000159 47502. 2980486451. 21.5381784 0.0003433 -0.0011867 1.2967706 -34.1934731 C
0.0000166 49254. 2973836468. 21.5202050 0.0003564 -0.0012336 1.3414346 -35.5430265 C
0.0000172 51005. 2967582059. 21.5045815 0.0003696 -0.0012804 1.3857879 -36.8920606 C
0.0000178 52755. 2961681378. 21.4910675 0.0003828 -0.0013272 1.4298296 -38.2405707 C
0.0000184 54503. 2956097778. 21.4794557 0.0003960 -0.0013740 1.4735583 -39.5885338 C
0.0000191 56250. 2950799575. 21.4695657 0.0004093 -0.0014207 1.5169731 -40.9360059 C
0.0000197 57995. 2945759102. 21.4612403 0.0004225 -0.0014675 1.5600726 -42.2829232 C
0.0000203 59738. 2940952091. 21.4543417 0.0004358 -0.0015142 1.6028558 -43.6293019 C
0.0000209 61480. 2936357169. 21.4487486 0.0004491 -0.0015609 1.6453215 -44.9751380 C
0.0000216 63220. 2931955431. 21.4443539 0.0004624 -0.0016076 1.6874685 -46.3204274 C
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0.0000259 75357. 2905346214. 21.4403310 0.0005561 -0.0019339 1.9734696 -55.7218010 C
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0.0000272 78810. 2898772269. 21.4496400 0.0005831 -0.0020269 2.0522446 -58.4027478 C
0.0000278 80534. 2895616244. 21.4496845 0.0005966 -0.0020734 2.0911357 -59.7423389 C
0.0000284 82257. 2892539309. 21.4539621 0.0006101 -0.0021199 2.1296940 -61.0000000 CY
0.0000291 83977. 2889535964. 21.4587667 0.0006236 -0.0021664 2.1679181 -60.0000000 CY
0.0000297 85623. 2884128197. 21.4578200 0.0006370 -0.0022130 2.2052797 -60.0000000 CY
0.0000303 87011. 2870472224. 21.4360661 0.0006498 -0.0022602 2.2404794 -60.0000000 CY
0.0000309 88254. 2852650788. 21.4035680 0.0006622 -0.0023078 2.2743289 -60.0000000 CY
0.0000316 89351. 2830916915. 21.3605559 0.0006742 -0.0023558 2.3068219 -60.0000000 CY
0.0000322 90395. 2808380713. 21.3153014 0.0006861 -0.0024039 2.3386620 -60.0000000 CY
0.0000328 91373. 2784693632. 21.2666046 0.0006978 -0.0024522 2.3697409 -60.0000000 CY
0.0000334 92233. 2758363712. 21.2101533 0.0007092 -0.0025008 2.3996675 -60.0000000 CY
0.0000341 93074. 2732434914. 21.1545772 0.0007206 -0.0025494 2.4292086 -60.0000000 CY
0.0000347 93908. 2707271080. 21.1009138 0.0007319 -0.0025981 2.4584663 -60.0000000 CY
0.0000353 94659. 2680611856. 21.0422577 0.0007431 -0.0026469 2.4868142 -60.0000000 CY
0.0000359 95322. 2652446487. 20.9785355 0.0007539 -0.0026961 2.5142389 -60.0000000 CY
0.0000366 95981. 2625119970. 20.9169535 0.0007648 -0.0027452 2.5414092 -60.0000000 CY
0.0000372 96639. 2598694888. 20.8577322 0.0007756 -0.0027944 2.5683562 -60.0000000 CY
0.0000397 98906. 2492119435. 20.6098967 0.0008180 -0.0029920 2.6707610 -60.0000000 CY
0.0000422 100887. 2391396547. 20.3596487 0.0008589 -0.0031911 2.7662096 -60.0000000 CY
0.0000447 102453. 2292656096. 20.1038489 0.0008984 -0.0033916 2.8547024 -60.0000000 CY
0.0000472 103914. 2202143733. 19.8695674 0.0009376 -0.0035924 2.9393267 -60.0000000 CY
0.0000497 105207. 2117369226. 19.6442611 0.0009761 -0.0037939 3.0191806 -60.0000000 CY
0.0000522 106233. 2035606576. 19.4006380 0.0010128 -0.0039972 3.0923071 -60.0000000 CY
0.0000547 107255. 1961232827. 19.1924544 0.0010496 -0.0042004 3.1628436 -60.0000000 CY
0.0000572 108256. 1893006959. 18.9978960 0.0010864 0.0010486 -0.0044036 3.2305940 -60.0000000 CY
0.0000597 108974. 1825741951. 18.7936265 0.0011217 -0.0046083 3.2927200 -60.0000000 CY
0.0000622 109666. 1763471226. 18.5970920 0.0011565 -0.0048135 3.3513087 -60.0000000 CY
0.0000647 110347. 1705854471. 18.4118720 0.0011910 -0.0050190 3.4069552 -60.0000000 CY
0.0000672 111025. 1652472150. 18.2421448 0.0012256 -0.0052244 3.4602857 -60.0000000 CY
0.0000697 111637. 1601960340. 18.0791107 0.0012599 -0.0054301 3.5105371 -60.0000000 CY
0.0000722 112111. 1553056541. 17.9140822 0.0012932 -0.0056368 3.5569807 -60.0000000 CY
0.0000747 112561. 1507094389. 17.7590922 0.0013264 -0.0058436 3.6010086 -60.0000000 CY
0.0000772 112992. 1463861797. 17.6021916 0.0013587 -0.0060513 3.6415627 -60.0000000 CY
0.0000797 113420. 1423308656. 17.4564516 0.0013911 -0.0062589 3.6800696 -60.0000000 CY
0.0000822 113845. 1385189925. 17.3208694 0.0014236 -0.0064664 3.7165089 -60.0000000 CY

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0.0000847	114266.	1349269236.	17.1943415	0.0014561	-0.0066739	3.7508397	-60.0000000	CY
0.0000872	114675.	1315273071.	17.0751858	0.0014887	-0.0068813	3.7829655	-60.0000000	CY
0.0000897	114959.	1281767540.	16.9483073	0.0015201	-0.0070899	3.8116911	-60.0000000	CY
0.0000922	115231.	1249966875.	16.8283798	0.0015514	-0.0072986	3.8383839	-60.0000000	CY
0.0000947	115489.	1219681154.	16.7066216	0.0015819	-0.0075081	3.8624302	-60.0000000	CY
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0.0001347	118534.	880069284.	15.2997436	0.0020607	-0.0108693	3.9995709	-60.0000000	CY
0.0001372	118657.	864926573.	15.2348358	0.0020900	-0.0110800	3.9980536	-60.0000000	CY
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0.0001672	119919.	717274041.	14.6075504	0.0024422	-0.0136078	3.9999619	60.0000000	CY
0.0001822	120253.	660049527.	14.3353960	0.0026117	-0.0148783	3.9957353	60.0000000	CY
0.0001972	120544.	611314909.	14.1118341	0.0027827	-0.0161473	3.9860306	60.0000000	CY
0.0002122	120817.	569387806.	13.9297284	0.0029557	-0.0174143	3.9970866	60.0000000	CY
0.0002272	121019.	532682783.	13.7669720	0.0031277	-0.0186823	3.9868749	60.0000000	CYT
0.0002422	121194.	500414822.	13.6363417	0.0033026	-0.0199474	3.9898604	60.0000000	CYT
0.0002572	121339.	471793455.	13.5359216	0.0034813	-0.0212087	3.9998909	60.0000000	CYT
0.0002722	121402.	446024847.	13.4468361	0.0036601	-0.0224699	3.9763792	60.0000000	CYT
0.0002872	121454.	422908081.	13.3693898	0.0038395	-0.0237305	3.9852614	60.0000000	CYT

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

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

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	84.093	120868.967	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 Load No.	Resistance Factor for Moment	Nominal Moment Capacity in-kip	Ultimate (Factored) Axial Thrust kips	Ultimate (Factored) Moment Capacity in-kip	Bending Stiffness at Ult. Mom. Cap. kip-in ²
1	0.65	120868.967	54.661	78564.826	2899233457.034
1	0.70	120868.967	58.865	84608.276	2887461693.667
1	0.75	120868.967	63.070	90651.725	2802156928.171

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 = 64680.0 lbs
Applied moment at pile head = 97314080.0 in-lbs
Axial thrust load on pile head = 84093.3 lbs

Depth x feet	Deflect. y inches	Bending Moment in-lbs	Shear Force lbs	Slope S radians	Total Stress psi*	Bending Stiffness lb-in ²	Soil Res. p lb/in	Soil Spr. Es* h lb/inch	Distrib. Lat. Load lb/inch
0.00	3.4998	97314080.	64680.	-0.0175	0.000	2.565E+12	0.000	0.000	0.000
1.125	3.2668	98206585.	64575.	-0.0170	0.000	2.524E+12	-20.8928	28.7794	0.000
2.250	3.0410	99095365.	64281.	-0.0165	0.000	2.482E+12	-21.6980	32.1079	0.000
3.375	2.8225	99979580.	63992.	-0.0159	0.000	2.436E+12	-21.1653	33.7446	0.000
4.500	2.6114	1.008E+08	48572.	-0.0154	0.000	2.397E+12	-1387.8033	2391.4573	0.000
5.625	2.4080	1.013E+08	29492.	-0.0148	0.000	2.363E+12	-1438.1960	2687.6266	0.000
6.750	2.2124	1.016E+08	9759.1670	-0.0142	0.000	2.345E+12	-1484.6616	3019.7313	0.000
7.875	2.0247	1.016E+08	-10574.	-0.0136	0.000	2.344E+12	-1527.0431	3393.8567	0.000
9.000	1.8449	1.013E+08	-31451.	-0.0130	0.000	2.361E+12	-1565.1533	3817.5636	0.000

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10.125	1.6730	1.008E+08	-52812.	-0.0125	0.000	2.396E+12	-1598.7619	4300.4207	0.000	
11.250	1.5086	99949213.	-74595.	-0.0119	0.000	2.438E+12	-1627.5802	4854.7737	0.000	
12.375	1.3518	98806388.	-96732.	-0.0113	0.000	2.497E+12	-1651.2454	5496.8594	0.000	
13.500	1.2022	97362093.	-120955.	-0.0108	0.000	2.563E+12	-2470.8616	9249.1336	0.000	
14.625	1.0594	95442401.	-167945.	-0.0103	0.000	2.647E+12	-3681.1594	15636.	0.000	
15.750	0.9233	92851450.	-217556.	-0.009853	0.000	2.739E+12	-3666.4373	17870.	0.000	
16.875	0.7933	89591989.	-266862.	-0.009410	0.000	2.826E+12	-3635.5987	20623.	0.000	
18.000	0.6691	85669716.	-315625.	-0.008996	0.000	2.884E+12	-3585.3217	24113.	0.000	
19.125	0.5503	81093887.	-363551.	-0.008606	0.000	2.895E+12	-3510.7643	28708.	0.000	
20.250	0.4366	75878218.	-410265.	-0.008240	0.000	2.904E+12	-3404.4285	35086.	0.000	
21.375	0.3277	70042287.	-455260.	-0.007902	0.000	2.916E+12	-3253.4495	44674.	0.000	
22.500	0.2232	63613968.	-497779.	-0.007593	0.000	2.931E+12	-3032.4272	61144.	0.000	
23.625	0.1226	56634377.	-536513.	-0.007317	0.000	2.950E+12	-2676.8139	98264.	0.000	
24.750	0.0255	49171575.	-568074.	-0.007075	0.000	2.974E+12	-1852.3259	327002.	0.000	
25.875	-0.0686	41549275.	-551549.	-0.006870	0.000	3.007E+12	2429.7068	159403.	0.000	
27.000	-0.1608	34352380.	-514035.	-0.006817	0.000	1.855E+13	3077.3364	86121.	0.000	
28.125	-0.2527	27713885.	-469361.	-0.006794	0.000	1.860E+13	3524.7709	62777.	0.000	
29.250	-0.3443	21711247.	-420282.	-0.006776	0.000	1.865E+13	3792.7822	49578.	0.000	
30.375	-0.4356	16399261.	-366973.	-0.006763	0.000	1.869E+13	4100.0337	42352.	0.000	
31.500	-0.5269	11801529.	-315815.	-0.006752	0.000	1.873E+13	3821.9325	32644.	0.000	
32.625	-0.6180	7900116.	-262690.	-0.006745	0.000	1.875E+13	4046.3059	29465.	0.000	
33.750	-0.7090	4735978.	-206620.	-0.006741	0.000	1.878E+13	4258.8563	27031.	0.000	
34.875	-0.8000	2347893.	-147743.	-0.006738	0.000	1.878E+13	4462.5114	25102.	0.000	
36.000	-0.8909	773006.	-86165.	-0.006737	0.000	1.878E+13	4659.2774	23533.	0.000	
37.125	-0.9819	47198.	-21969.	-0.006737	0.000	1.878E+13	4850.5863	22230.	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 = 3.4997503 inches
 Computed slope at pile head = -0.0175097 radians
 Maximum bending moment = 101643311. inch-lbs
 Maximum shear force = -569294. lbs
 Depth of maximum bending moment = 7.5000000 feet below pile head
 Depth of maximum shear force = 25.1250000 feet below pile head
 Number of iterations = 74
 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

Load Case No.	Load No.	Pile-head Condition 1 V(lbs) or y(inches)	Pile-head Condition 2 in-lb, rad., or in-lb/rad.	Axial Loading lbs	Pile-head Deflection inches	Maximum Moment in Pile in-lbs	Maximum Shear in Pile lbs	Pile-head Rotation radians
1	1	v = 64680.	M = 97314080.	84093.	3.49975031	101643311.	-569294.	-0.01750968

The analysis ended normally.

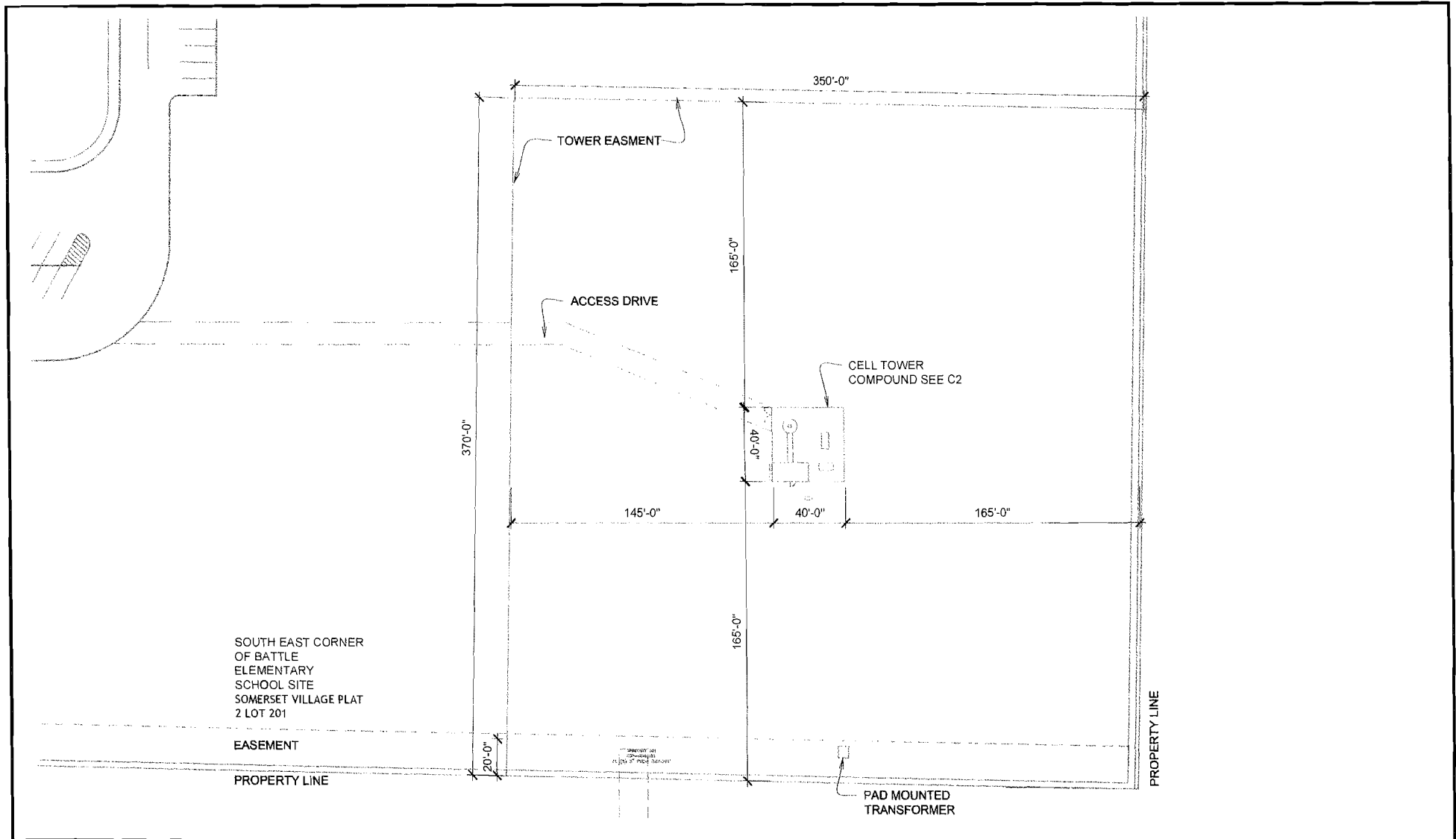
1805.7.2.1 (2006 IBC) & 1807.3.2.1 (2009 IBC & 2012 IBC)

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

Monopole

Moment (ft-k)	6082.13
Shear (k)	48.5
Caisson Diameter, b (ft)	8
Caisson Height Above Ground (ft)	0.5
Caisson Height Below Ground (ft)	30
Lateral soil pressure per foot (lb/ft ³)	270

Applied lateral force, P (lbs)	48510
Dist. from ground to application of P, h (ft)	125.88
$A = 2.34*P/(S1*b)$	5.26
Min. Depth of Embedment Required, d (ft)	29.61



SOUTH EAST CORNER
OF BATTLE
ELEMENTARY
SCHOOL SITE
SOMERSET VILLAGE PLAT
2 LOT 201

EASEMENT

PROPERTY LINE

TOWER EASMENT

ACCESS DRIVE

CELL TOWER
COMPOUND SEE C2

PAD MOUNTED
TRANSFORMER

PROPERTY LINE



TOWER SITE PLAN

SCALE: 1" = 50'-0"

DRAWING NO

C1

PROJECT COLUMBIA PUBLIC SCHOOLS - BATTLE ELEMENTARY SCHOOL TOWER

DATE 07/13/16

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS, that we,

McGilton Construction Co., Inc.

as Principal, hereinafter called Contractor, and Merchants Bonding Company (Mutual)

a Corporation, organized under the laws of the State of Iowa
and authorized to transact business in the State of Missouri, as Surety, hereinafter called Surety,
are held and firmly bound unto the County of Boone, Missouri, as Obligee, hereinafter called
Owner, in the amount of Fifty Nine Thousand Three Hundred Sixty Two and 00/100 (\$59,362.00) Dollars,
for the payment whereof Contractor and Surety bind themselves, their heirs, executors,
administrators, successors and assigns jointly and severally, firmly by these presents:

WHEREAS, Contractor has, by written agreement dated _____ entered into a
Contract with Owner for:

**BID NUMBER 72-05NOV15
TOWER FOUNDATION AND SITE WORK FOR BATTLE
BOONE COUNTY, MISSOURI**

in accordance with the specifications and/or prepared by the County of Boone, which contract is
by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor
shall promptly and faithfully perform said Contract, and shall faithfully perform the prevailing
hourly wages and comply with all prevailing wage requirements as provided by such Contract
and applicable prevailing wage laws, rules, and rates specified by regulation thereunder, then this
obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be, in default under the Contract, the
Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the
default, or shall promptly:

- 1) Complete the Contract in accordance with its terms and conditions, or
- 2) Obtain a bid for submission to Owner for completing the Contract in accordance with its terms
and conditions, and upon determination by Owner and Surety of the lowest responsible bidder,
arrange for a Contract between such bidder and Owner, and make available as work progresses
(even though there should be a default of a succession of defaults under the Contract or Contracts
of completion arranged under this paragraph) sufficient fund to pay the cost of completion less
the balance of the Contract price, but not exceeding, including other costs and damages for which
the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term
"balance of the Contract price", as used in this paragraph, shall mean the total amount payable by

Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of owner.

IN TESTIMONY WHEREOF, the Contractor has hereunto set his hand and the Surety has caused these presents to be executed in its name, and its corporate seal to be affixed by its Attorney-In-Fact at Haas & Wilkerson Insurance - Fairway, KS, on this 16th day of November, 2015.


McGilton Construction Co., Inc.
(Contractor)

(SEAL)

BY: 

Merchants Bonding Company (Mutual)
(Surety Company)

(SEAL)

BY: 
Nathan Buhrmester (Attorney-In-Fact)

BY: 
Jerry Falk (Missouri Representative)

(Accompany this bond with Attorney-In-Fact's authority from the Surety Company certified to include the date of this bond.)

Surety Contact Name: Ben Conley
Phone Number: 913-451-0413
Address: 9393 W. 110th St., Suite 500
Overland Park, KS 66210

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS, that we, McGilton Construction Co., Inc.

as Principal, hereinafter called Contractor, and Merchants Bonding Company (Mutual)

a corporation organized under the laws of the State of Iowa,
and authorized to transact business in the State of Missouri, as Surety, hereinafter called Surety,
are held and firmly bound unto the County of Boone, Missouri, as Obligee, hereinafter called
Owner, for the use and benefit of claimants as herein below defined, in the amount of
Fifty Nine Thousand Three Hundred Sixty Two and 00/100 DOLLARS

(\$ 59,362.00), for the payment whereof Contractor and Surety bind themselves,
their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by
these presents:

WHEREAS, Contractor has by written agreement dated _____ entered
into a contract with Owner for

**BID NUMBER 72-05NOV15
TOWER FOUNDATION AND SITE WORK FOR BATTLE
BOONE COUNTY, MISSOURI**

in accordance with specifications and/or plans prepared by the County of Boone which contract
is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that the Contractor
shall promptly make payments to all claimants as hereinafter defined, for all labor and material
used or reasonably required for use in the performance of the Contract, then this obligation shall
be void; otherwise, it shall remain in full force and effect, subject, however, to the following
conditions.

- A. A claimant is defined as one having a direct contract with the Contractor or with a subcontractor of the Contractor for labor, material, or both, used or reasonably required for use in the performance of the Contract; labor and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service, rental, or equipment directly applicable to the Contract.
- B. The above named Contractor and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The owner shall not be liable for the payment of any costs or expenses of any such suit.
- C. No suit or action shall be commenced hereunder by any claimant:

1. Unless claimant, other than one having a direct contact with the Contractor, shall have given written notice to any two of the following: the Contractor, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Contractor, Owner, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

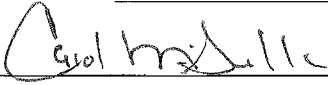
2. After the expiration of one (1) year following the date on which Contractor ceased work on said contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

3. Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

D. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of Mechanic's Liens which may be filed on record against said improvement, whether or not claim for the amount of such lien be presented under or against this bond.

IN TESTIMONY WHEREOF, the Contractor has hereunto set their hand and the Surety caused these present to be executed in its name and its corporate seal to be affixed by its Attorney-In-Fact at Haas & Wilkerson Insurance - Fairway, KS on this 16th day of November 2015.

CONTRACTOR McGilton Construction Co., Inc. (SEAL)

BY: 

SURETY COMPANY Merchants Bonding Company (Mutual)

BY: 

(Attorney-In-Fact) Nathan Buhrmester

BY: 

(Missouri Representative) Jerry Fallen

(Accompany this bond with Attorney-In-Fact's authority from the Surety Company certified to include the date of this bond. Include Surety's address and contact name with phone number).

MERCHANTS
BONDING COMPANY™
POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Jerry E Fallen; Luanne K Degler; Nathan Buhmester; William R Wilkerson IV

their true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver on behalf of the Companies, as Surety, bonds, undertakings and other written obligations in the nature thereof, subject to the limitation that any such instrument shall not exceed the amount of:

FOUR MILLION (\$4,000,000.00) DOLLARS

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 24, 2011.

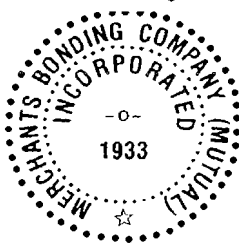
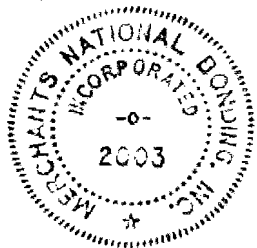
"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 15th day of August, 2015.



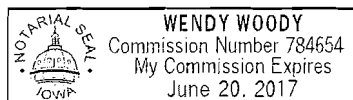
MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.

By *Larry Taylor*

President

STATE OF IOWA
COUNTY OF Dallas ss.

On this 15th day of August, 2015, before me appeared Larry Taylor, to me personally known, who being by me sworn did say that he is President of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

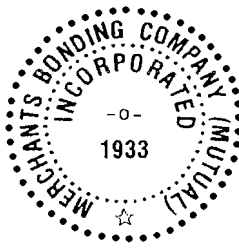
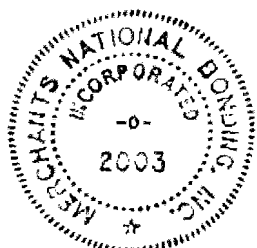


Wendy Woody
Notary Public, Polk County, Iowa

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of the MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 16th day of November, 2015.



William Warner Jr.
Secretary

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

In the County Commission of said county, on the

24th

day of

November 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 68-23OCT15 – Pest Control Services to Wood’s Pest Control of Eldon, MO.

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

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill
Presiding Commissioner

Karen M. Miller
Karen M. Miller
District I Commissioner

Janet M. Thompson
Janet M. Thompson
District II Commissioner

556-2015

Boone County Purchasing

Cheli Haley
Buyer



613 East Ash Street, Room 109
Columbia, MO 65201
Phone: (573)886-4392
Facsimile: (573)886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Cheli Haley, Buyer
DATE: November 16, 2015
RE: 68-23OCT15 – Pest Control Services

Bid 68-23OCT15 – Pest Control Services was opened on October 23, 2015 with three responses received. Public Works and Facilities Maintenance recommend awarding this term and supply contract by low bid to Wood's Pest Control of Eldon, Missouri.

Facilities Maintenance has budgeted \$2,318.00 and Public Works has budgeted \$212.00 for this service. Account 60150 – Pest Control will be used, and invoices will be paid from Departments 6101 – Housekeeping and 2040 – PW-Maintenance Operations.

The bid tabulation and award recommendation are attached for your review.

68-23OCT15 - Pest Control Services - Term & Supply

Bid Opening: October 23, 2015 at 2:00 p.m.

BID TABULATION

5.2. Pricing: Site visits and the application of pest control chemicals shall occur quarterly at the locations listed below. The County reserves the right to remove or add locations from this list at the discretion of the County.

				Wood's Pest Control		Wingate		Orkin	
Location	Address	Sq Ft	Qty	Unit Price	Extended Total	Unit Price	Extended Total	Unit Price	Extended Total
Alternative Sentencing Center	607 East Ash Street	5,700	4	\$ 50.00	\$ 200.00	\$ 55.00	\$ 220.00	\$ 60.00	\$ 240.00
Boone County Annex	613 East Ash Street	5,211	4	\$ 50.00	\$ 200.00	\$ 55.00	\$ 220.00	\$ 60.00	\$ 240.00
Johnson Building	601 East Walnut Street	14,896	4	\$ 60.00	\$ 240.00	\$ 80.00	\$ 320.00	\$ 80.00	\$ 320.00
Community Services & IV-D	605 East Walnut Street	4,956	4	\$ 45.00	\$ 180.00	\$ 55.00	\$ 220.00	\$ 60.00	\$ 240.00
911 Services	609 East Walnut Street	2,668	4	\$ 30.00	\$ 120.00	\$ 40.00	\$ 160.00	\$ 40.00	\$ 160.00
Courthouse	705 East Walnut Street	98,000	4	\$ 85.00	\$ 340.00	\$ 150.00	\$ 600.00	\$ 150.00	\$ 600.00
Government Center	801 East Walnut Street	50,298	4	\$ 75.00	\$ 300.00	\$ 120.00	\$ 480.00	\$ 120.00	\$ 480.00
Vacant Building	101 North 7 th Street	5,250	4	\$ 50.00	\$ 200.00	\$ 55.00	\$ 220.00	\$ 60.00	\$ 240.00
Public Works Administration	5551 Tom Bass Road	15,200	4	\$ 60.00	\$ 240.00	\$ 60.00	\$ 240.00	\$ 100.00	\$ 400.00
Hallsville Facility (Office)	950 Highway 124	750	4	\$ 20.00	\$ 80.00	\$ 40.00	\$ 160.00	\$ 45.00	\$ 180.00
North Facility	5501 Oakland Gravel Road	11,700	4	\$ 50.00	\$ 200.00	\$ 60.00	\$ 240.00	\$ 75.00	\$ 300.00
Centralia Clinic	1021 East Highway 22	1,745	4	\$ 25.00	\$ 100.00	\$ 40.00	\$ 160.00	\$ 45.00	\$ 180.00
Grand Total		216,374			\$ 2,400.00		\$ 3,240.00		\$ 3,580.00
5.3. Renewal Pricing Increases									
First Renewal Term					0%		0%		2%
Second Renewal Term					0%		0%		2%
Third Renewal Term					0%		0%		2%
Fourth Renewal Term					0%		5%		2%

556-2015

**PURCHASE AGREEMENT
FOR
PEST CONTROL SERVICES TERM AND SUPPLY**

THIS AGREEMENT dated the 24th day of November 2015 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and **Wood's Pest Control**, 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, the County of Boone Request for Bid for **Pest Control Services Term and Supply**, bid number **68-23OCT15**, any applicable addenda, and the Contractor's bid response dated **October 9, 2015** and executed by **Phillip Woods** on behalf of the Contractor, Work Authorization Certification, Certification of Individual Bidder, Certification Regarding Debarment, and Boone County Standard Terms and Conditions. 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 Request for Bid and any applicable addenda shall prevail and control over the Contractor's bid response.

2. Contract Duration - This agreement shall **commence on November 1, 2015 and continue 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 an **additional four (4) one-year periods** subject to the pricing clauses in the Contractor's bid response. This agreement may be extended beyond the expiration date by order of the County 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.

3. Purchase - The County agrees to purchase from the Contractor and the Contractor agrees to supply the County the items and services as required in the bid specifications and in conformity with the contract documents for the prices set forth in the Contractor's bid response.

4. Delivery - Contractor agrees to provide quarterly site visits and pest control chemical applications as necessary for locations listed in Section 5.2. of the Response Form as well as be available to respond to callback requests within a twenty-four (24) hour period upon notification.

5. Billing and Payment - All billings shall be invoiced as stated in Section 2.6. of the Request for Bid. Billings may only include the prices listed 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 monthly statements within thirty (30) 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 nine percent (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 (30) 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.

WOOD'S PEST CONTROL

by Phillip Wood
 title Owner
 address 13 Pine Cone Rd Eldon, MO 65026

BOONE COUNTY, MISSOURI

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

APPROVED AS TO FORM:

C.J. Dykhouse
 C.J. Dykhouse, County Counselor

ATTEST:

Wendy S. Noren
 Wendy S. Noren, 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.)

James E. Pitchford
 Signature by ag

11/16/15
 Date

6101, 2040/60150 Term/Supply
No Encumbrance Required
 Appropriation Account



BOONE COUNTY, MISSOURI

Request for Bid #: 68-23OCT15 – Pest Control Services Term & Supply

ADDENDUM #1 - Issued October 22, 2015

This addendum is issued in accordance with the Request for Bid Response Page in the Request for Bid and is hereby incorporated into and made a part of the Request for Bid documents. Bidders are reminded that receipt of this addendum should be acknowledged and submitted with Respondent's Response Form.

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.

1. Do treatments for pest control need to be made during certain hours of the day?

No, with the exception of the courtrooms in Boone County Courthouse which can only be treated when court is not in session.

2. Does the County have specific pest control problems that will need special attention?

It is requested that the awarded contractor focus on mice at the buildings listed in Section 2.6.3. Also clover mites are a problem in the Government Center each spring. Facilities Maintenance recently requested treatment for fleas in the some of the buildings located in the downtown area of Columbia, but this matter is no longer of concern.

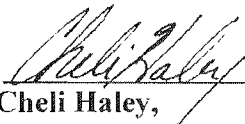
3. Does the County have problems with mosquitoes?

No, and the County is primarily interested in pest control services for the building interiors.

4. Clarification to Section 3.4.1. Prevention.

Contractor shall take all actions and procedures necessary to prevent the infestation of pest on County property. Site visits shall occur quarterly at all locations listed in Section 2.6. of the Request for Bid. The applications of pest control chemicals shall occur quarterly or as needed.

By:


Cheli Haley,
Buyer

RESPONDENT has examined **Addendum #1** to Request for Bid # 68-23OCT15 -- Pest Control Services Term & Supply, receipt of which is hereby acknowledged:

Company Name: Wood's Pest Control

Address: 13 Pine Cone Rd, Eldon, MO 65026

Phone Number: 573-392-8644

Fax Number: 573-392-8644

E-mail: woodspestcontrolmo@gmail.com

Authorized Representative Signature: Phillip J. Wood Date: 11/4/15

Authorized Representative Printed Name: Phillip J. Wood

5. RESPONSE FORM

5.1. Company Information

Name: Phillip Wood dba Wood's Pest Control
 Address: 13 Pine Cone Rd. Ebdon, MO 65026
 Phone Number: 573-392-8644 Fax Number: 573-392-8644
 Email: woodspestcontrol mo@gmail.com Federal Tax ID: _____

- Corporation
 Partnership Name: _____
 Individual/Proprietorship Name: Phillip & Victoria Wood
 Other: _____

5.2. Pricing: Site visits and the application of pest control chemicals shall occur quarterly at the locations listed below. The County reserves the right to remove or add locations from this list at the discretion of the County.

Location	Address	Square Footage	Unit Price	Qty	Extended Total
Alternative Sentencing Center	607 East Ash Street	5,700	\$ 50 ⁰⁰	4	\$ 200 ⁰⁰
Boone County Annex	613 East Ash Street	5,211	\$ 50 ⁰⁰	4	\$ 200 ⁰⁰
Johnson Building	601 East Walnut Street	14,896	\$ 60 ⁰⁰	4	\$ 240 ⁰⁰
Community Services & IV-D	605 East Walnut Street	4,956	\$ 45 ⁰⁰	4	\$ 180 ⁰⁰
911 Services	609 East Walnut Street	2,668	\$ 30 ⁰⁰	4	\$ 120 ⁰⁰
Courthouse	705 East Walnut Street	98,000	\$ 35 ⁰⁰	4	\$ 340 ⁰⁰
Government Center	801 East Walnut Street	50,298	\$ 75 ⁰⁰	4	\$ 300 ⁰⁰
Vacant Building	101 North 7 th Street	5,250	\$ 50 ⁰⁰	4	\$ 200 ⁰⁰
Public Works Administration	5551 Tom Bass Road	15,200	\$ 60 ⁰⁰	4	\$ 240 ⁰⁰
Hallsville Facility (Office)	950 Highway 124	750	\$ 20 ⁰⁰	4	\$ 50 ⁰⁰
North Facility	5501 Oakland Gravel Road	11,700	\$ 50 ⁰⁰	4	\$ 200 ⁰⁰
Centralia Clinic	1021 East Highway 22	1,745	\$ 25 ⁰⁰	4	\$ 100 ⁰⁰
Grand Total		216,374	600.00		\$2400⁰⁰

5.3. Renewal Pricing Increases

First Renewal Term: 0 %

Second Renewal Term: 0 %

Third Renewal Term: 0 %

Fourth Renewal Term: 0 %

5.9. Cooperatives

Will you honor the submitted prices for use by other entities who participate in cooperative purchasing with Boone County, Missouri? (A negative response to this question will not affect evaluation of your bid.) Yes No

The undersigned offers to furnish and deliver the articles or services as specified at the prices and terms stated and in strict accordance with the specifications, instructions and general conditions of bidding which have been read and understood, and all of which are made part of this order.

Authorized Representative (Print Name): Phillip Wood

Phillip Wood
Signature

10/9/15
Date

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: Wood's Pest Control
2. Business Address: 13 Pine Cone Rd.
3. When Organized: April 2004
4. When Incorporated: not
5. List federal tax identification number: _____ . If not incorporated, state type of business (sole proprietor, partnership, or other): sole proprietor . Fed tax ID or SS number: 499-72-0215
6. Number of years engaged in business under present firm name: 11 yrs
7. If you have done business under a *different name*, please give name and business location under that name: _____
8. Percent of work done by own staff: 100%
9. Have you ever failed to complete any work awarded to your company?
 Yes No
If yes, where and why? _____
10. Have you ever defaulted on a contract or been in litigation for services performed?
 Yes No
If so, give details: _____
11. List of projects currently in progress: Over 300 customers under annual contracts
12. List of contracts *with contact information*, completed within the last three (3) years, for similar services as described in this bid, including value of each: Form provided on next page.

* Attach additional sheets as necessary *



MISSOURI DEPT OF AGRICULTURE
PESTICIDE PROGRAM
PO BOX 630
JEFFERSON CITY, MO 65102

COMMERCIAL APPLICATOR LICENSE

NON TRANSFERABLE
CATEGORY: 6 7A 7B

USAPlants ID:
00DHHH

PHILLIP J WOOD
WOOD'S PEST CONTROL
13 PINE CONE RD
ELDON MO 65026

License No:
C11385

License Expires:
12-31-2015



13469

Recertified Until:
12-31-2017

RICHARD FORDYCE
DIRECTOR

PAUL BAILEY
SUPERVISOR

PRIOR EXPERIENCE

(References of similar services for governmental agencies are preferred)

Include references familiar with your company's work.

1. Prior Services Performed for:

Company Name: Missouri Department of Corrections ^{Fulton} ~~Boonville~~ Correctional Center
Address:

Contact Name: Keith Eveler
Telephone Number: 573-592-4040 Ext 358

Date of Contract: 1/13/13
Length of Contract: 2 yrs

Description of Prior Services: spray, bait cells, public areas, reception, food facilities, warehouses

2. Prior Services Performed for: Missouri Dept of Corrections Boonville Correctional Cen
Company Name:
Address:

Contact Name: Duane Drane
Telephone Number: 660-888-1330

Date of Contract: 7/13
Length of Contract: 2 years

Description of Prior Services: spray, bait, cells, public areas, reception, food preparation areas.

3. Prior Services Performed for: Miller County Health Center
Company Name:
Address: 2125 Hwy 52 Tuscumba, MO 65082

Contact Name:
Telephone Number: 573-369-2359

Date of Contract:
Length of Contract: renewed yearly (9 yrs)

Description of Prior Services: spray + bait public areas, restrooms, exam rooms + offices.

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

County of _____)
)ss
State of _____)

My name is Victoria Wood. I am an authorized agent of Wood's Pest Control
_____(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.

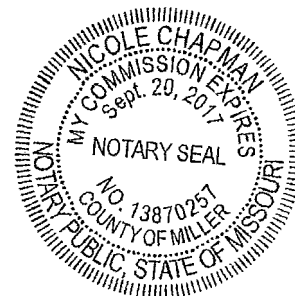
Furthermore, all subcontractors working on this contract shall affirmatively state in
writing in their contracts that they are not in violation of Section 285.530.1, shall not thereafter
be in violation and submit a sworn affidavit under penalty of perjury that all employees are
lawfully present in the United States.

Victoria Wood 10/22/15
Affiant Date

Victoria Wood
Printed Name

Subscribed and sworn to before me this 22nd day of October, 2015.

Nicole Chapman
Notary Public



CERTIFICATION OF INDIVIDUAL BIDDER

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

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

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

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

Phillip Wood
Applicant

10/9/15
Date

Phillip Wood
Printed Name

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

State of Missouri)
)SS.
County of Miller)

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

10/22/15
Date

Victoria Wood
Signature

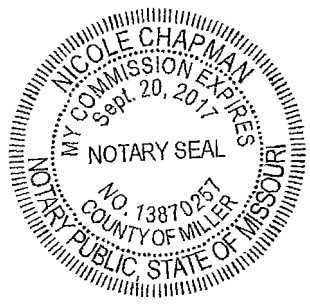
499-72-0215
Social Security Number
or Other Federal I.D. Number

Victoria Wood
Printed Name

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

Nicole Chapman
Notary Public

My Commission Expires:
Sept. 20, 2017



CERTIFICATION REGARDING
DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION
LOWER TIER COVERED TRANSACTIONS

(Please complete and return with Bid)

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

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS FOR CERTIFICATION)

(1) The prospective recipient of Federal assistance funds certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective recipient of Federal assistance funds is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Phillip Wood Owner

Print Name and Title of Authorized Representative

Phillip Wood
Signature

10/4/15
Date



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/12/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Select Ins. Agency, Inc./PJC 676A White Plains Rd Scarsdale, NY 10583-5008	CONTACT NAME: PHONE (A/C, No, Ext): 914-395-3131	FAX (A/C, No): 914-395-0200	
	E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #	
INSURED Wood's Pest Control dba Phillip Wood 13 Pine Cone Rd. Eldon, MO 65026	INSURER A : Gemini Insurance Company		10833
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		
	INSURER F :		


COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			LLG0000429-01	02/25/2015	02/25/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	N/A			PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER **CANCELLATION**

COUNT39 County of Boone MO Director Melinda Bobbitt Boone County Annex 613 E. Ash, Rm. 109 Columbia, MO 65201	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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BOONE COUNTY PURCHASING
613 East Ash Street, Room 109
Columbia, MO 65201

REQUEST FOR BID

Cheli Haley
Buyer
Phone: (573)886-4392
Fax: (573)886-4390
chaley@boonecountymo.org

BID DATA

INFORMATION

Bid Number: 68-23OCT15
Bid Title: Pest Control Services – Term & Supply

SUBMISSION INFORMATION

Due Date and Time: Friday, October 23, 2015 at 2:00 p.m. CST
Location: Boone County Purchasing Department
Boone County Annex Building
613 East Ash Street, Room 109
Columbia, MO 65201

OPENING INFORMATION

Date and Time: Friday, October 23, 2015 at 2:00 p.m. CST
Location: Boone County Purchasing Department
Boone County Annex Building
613 East Ash Street, Room 109
Columbia, MO 65201

PRE-BID CONFERENCE

Date and Time: Monday, October 19, 2015 at 2:00 p.m. CST
Location: Boone County Annex Building
613 East Ash Street, Conference Room
Columbia, MO 65201

BID CONTENTS

1. Introduction and General Conditions of Bidding
2. Contract Conditions and Requirements
3. Primary Specifications
4. Response Presentation and Review
5. Response Form
6. Attachments
 - a. Statement of Bidder's Qualifications and Prior Experience
 - b. Compliance with House Bill 1549 and Work Authorization

- c. Certification of Individual Bidder and Affidavit
- d. Debarment Certification
- e. Standard Terms and Conditions
- f. 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 the following Sections of this Request for Bid.

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:

1.2.1.1. Purchasing - The Purchasing Department, including its Purchasing Director and staff.

1.2.1.2. 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.

1.2.1.3. 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.

1.2.2.1. 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.

1.2.2.2. 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.

1.2.2.3. Supplier - All business(s) entities which may provide the subject goods and/or services.

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

1.2.4. Response - The written, sealed document submitted according to the Bid instructions.

- 1.3. BID CLARIFICATION - Questions regarding this Bid should be directed in writing, by e-mail or fax, to the Purchasing Department. Answers, citing the question asked but not identifying the questioner, will be distributed simultaneously to all known prospective Bidders in the form of an addendum. We strongly suggest that you check for any addenda a minimum of forty-eight (48) hours in advance of the bid deadline. Bids, addendums, bid tabulations, and bid awards are posted on our web site at: www.showmeboone.com *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. Bidder's failure or omission to examine any relevant form, article, site, or document will not relieve them from any obligation regarding this Bid. By submitting a Response, Bidder is presumed to concur with all terms, conditions, and specifications of this Bid.
- 1.3.2. Bid Addendum - If it becomes evident that this Bid must be amended, the Purchasing Department will issue a formal written Addendum to all known prospective Bidders. If necessary, a new due date will be established.
- 1.4. PRE-BID CONFERENCE – An optional Pre-Bid Conference will be held on October 19, 2015 at 2:00 p.m. in the conference room of the Boone County Annex Building, 613 East Ash Street, Columbia, MO 65201. All potential bidders are urged to attend.
- 1.5. AWARD - Award shall be made to the Bidder(s) whose offer(s) provides the greatest value to the County from the standpoint of suitability to purpose, quality, service, previous experience, price, lifecycle cost, ability to deliver, or for any other reason deemed by Purchasing to be in the best interest of the County. Thus, the result will not be determined by price alone. The County will be seeking the least costly outcome that meets the County's needs as interpreted by the County. The 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. The County also reserves the right to award to multiple vendors.
- 1.6. PROPOSED SOLICITATION SCHEDULE
- | | |
|-----------------------------------|------------------|
| Release of Request for Bid | October 2, 2015 |
| Pre-Bid Conference | October 19, 2015 |
| Deadline for Submitting Questions | October 21, 2015 |
| Bid Responses Due | October 23, 2015 |
- 1.7. CONTRACT EXECUTION - This Bid and the Contractor's Response will be made part of any resultant Contract and will be incorporated in the Contract as set forth, verbatim.
- 1.7.1. 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:
- a. the provisions of the Contract (as it may be amended);
 - b. the provisions of the Bid;
 - c. the provisions of the Bidder's Response.

- 1.8. **CONTRACT PERIOD** –Term and Supply Contracts resulting from this Bid shall have an initial twelve (12) month contract period beginning November 1, 2015. In the event any provisions of the contract are not fulfilled by the Contractor, and/or the quality of workmanship is deemed unsatisfactory by the County, the County may, upon written notice to the Contractor, terminate this contract in ten (10) days after such written notice.
- 1.9. **CONTRACT RENEWAL** – The contract may be renewed by the County for up to an additional four (4) one-year periods unless cancelled by the Purchasing Department Director in writing prior to any renewal period. The unit prices identified on the Response Form shall remain fixed for the identified initial contract period. If the County exercises the option for renewal, the prices for the items listed on the Response Form shall not increase by more than the maximum percent proposed on the Response Form. If renewal percentages are **not** provided, then prices during any renewal period shall be the same as during the initial contract period.
- 1.10. **CONTRACT EXTENSION** – The County Purchasing Director may exercise the option to extend the contract on a month-to-month basis for a maximum of six (6) months from the date of termination if it is deemed to be in the best interest of Boone County.
- 1.11. **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.
- 1.12. **CONTRACT DOCUMENTS** - The successful bidder(s) shall be obligated to enter into a written contract with the County within thirty (30) days of award on contract. If bidders desire to contract under their own written agreement, any such proposed agreement shall be submitted 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.
- 1.13. **PRICING** – All prices shall be as indicated on the Response Form. The County shall not pay nor be liable for any other additional costs, including but not limited to: set up, clean up, labor, delivery, travel, taxes, insurance, interest, penalties, termination payments, attorney fees, etc. Additionally, the County shall not be subject to any minimum services or total prices.

2. **CONTRACT CONDITIONS AND REQUIREMENTS**

2.1. **INSURANCE**

- 2.1.1. **Insurance Requirements** - The Contractor shall not commence work under this contract until they have obtained all insurance required under this paragraph and the Certificate of Insurance has been approved by the County, nor shall the Contractor allow any subcontractor to commence work on their subcontract until all similar insurance required of subcontractor has been so obtained and approved. All policies

shall be in amounts, form and companies satisfactory to the County which must carry an A-6 or better rating as listed in the A.M. Best or equivalent rating guide. Insurance limits indicated below may be lowered at the discretion of the County.

- 2.1.2. Employers Liability and Workers Compensation Insurance - The Contractor shall take out and maintain during the life of this contract, Employers Liability and Workers Compensation Insurance for all of its employees employed at the site of work, and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workers Compensation Insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. Workers Compensation coverage shall meet Missouri statutory limits. Employers Liability limits shall be \$500,000.00 each employee, \$500,000.00 each accident, and \$500,000.00 policy limit. In case any class of employees engaged in hazardous work under this Contract at the site of the work is not protected under the Workers Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide Employers Liability Insurance for the protection of their employees not otherwise protected.
- 2.1.3. Commercial General Liability Insurance - The Contractor shall take out and maintain during the life of this contract, such commercial general liability insurance as shall protect it and any subcontractor performing work covered by this contract, from claims for damages for personal & advertising injury, bodily injury including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by themselves or for any subcontractor or by anyone directly or indirectly employed by them. The amounts of insurance shall be not less than \$1,000,000.00 per occurrence/\$2,000,000 aggregate covering both bodily injury and property damage, including accidental death. If the Contract involves any underground/digging operations, the general liability certificate shall include X, C, and U (Explosion, Collapse, and Underground) coverage. If providing Commercial General Liability Insurance, then the Proof of Coverage of Insurance shall also be included.
- 2.1.3.1. Contractor may satisfy the minimum liability limits required for Commercial General Liability or Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum per occurrence limit of liability under the umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "Each Occurrence" limit for either Commercial General Liability or Business Auto Liability. Contractor agrees to endorse the County as an Additional Insured on the umbrella or Excess Liability, unless the Certificate of Insurance state the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.
- 2.1.4. Business Automobile Liability – The Contractor shall maintain during the life of this contract, automobile liability insurance in the amount of not less than \$1,000,000.00 combined single limit for any one occurrence, covering both bodily injury, including accidental death, and property damage, to protect themselves from any and all claims arising from the use of the Contractor's own automobiles, teams and trucks; hired automobiles, teams and trucks; non-owned and both on and off the site of work.

- 2.1.5. Subcontractors - Contractor shall cause each Subcontractor to purchase and maintain insurance of the types and amounts specified herein. Limits of such coverage may be reduced only upon written agreement of County. Contractor shall provide to County copies of certificates of insurance evidencing coverage for each Subcontractor. Subcontractors' commercial general liability and business automobile liability insurance shall name County as Additional Insured and have the Waiver of Subrogation endorsements added.
- 2.1.6. Proof of Carriage of Insurance - The Contractor shall furnish the County with Certificate(s) of Insurance which name the County as additional insured in an amount as required in this contract, contain a description of the project or work to be performed and provided for Commercial General Liability, Business Auto Liability, and Umbrella or Excess Liability (not on Workers Compensation). The Certificate of Insurance shall provide that there will be no cancellation, non-renewal or reduction of coverage without 30 days prior written notice to the County. In addition, such insurance shall be on an occurrence basis and shall remain in effect until such time as the County has made final acceptance of the services provided.
- 2.2. INDEMNITY AGREEMENT - To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with providing these services. This provision does not, however, require contractor to indemnify, hold harmless, or defend the County of Boone from its own negligence.
- 2.2.1. Failure to maintain the required insurance in force may be cause for contract termination. In the event the Agency/Service fails to maintain and keep in force the required insurance or to obtain coverage from its subcontractors, the County shall have the right to cancel and terminate the contract without notice.
- 2.3. OVERHEAD LINE PROTECTION - The Contractor is aware of the provisions of the Overhead Power Line Safety Act, 319.075 to 319.090 RSMo, and agrees to comply with the provisions thereof. Contractor understands that it is their duty to notify any utility operating high voltage overhead lines and make appropriate arrangements with said utility if the performance of contract would cause any activity within ten feet of any high voltage overhead line. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection

with any claims arising under the Overhead Power Line Safety Act. Contractor expressly waives any action for contribution against the County on behalf of the Contractor, any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, and agrees to provide a copy of this waiver to any party affected by this provision.

2.4. EMPLOYMENT OF UNAUTHORIZED ALIENS PROHIBITED – Contractor shall comply with Missouri State Statute Section 285.530 in that they shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. As a condition for the award of this contract, the Contractor shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. The Contractor shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Please return a copy of the Memorandum of Understanding that you will receive following completion of enrollment. This will provide the County the proof of enrollment.

2.4.1. Contractor shall require each subcontractor to affirmatively state in its contract with Contractor that the subcontractor shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. Contractor shall also require each subcontractor to provide Contractor with a sworn affidavit under the penalty of perjury attesting to the fact that the subcontractor's employees are lawfully present in the United States.

2.5. SALES/USE TAX EXEMPTION – County will provide the Contractor with a Missouri Tax Exemption letter and, if applicable, a Missouri Project Exemption Certificate for Boone County, Missouri. The Contractor shall be responsible for furnishing the exemption certificate and tax exemption letter to all authorized sub-contractors and suppliers providing materials incorporated in the work. All invoices issued for purchases for such materials, supplies and taxable rentals shall be in the name of Boone County and contain the project number assigned by Boone County for the contract awarded. It shall be the responsibility of the Contractor to ensure that no sales or use taxes are included in the invoices and that the County pays no sales/use taxes from which it is exempt. The Contractor shall be responsible for obtaining revised exemption certificates and revised expiration dates if the work extends beyond the estimated project completion date or a certificate expiration date. The Contractor shall also be responsible for retaining a copy of the project exemption certificate for a period of five (5) years and for compliance with all other terms and conditions of section 144.062 RSMo. not otherwise herein specified. The Contractor agrees not to use or permit others to use the project exemption certificate for taxable purchases of materials or rentals and supplies not directly incorporated into or used in the work to which it applies and agrees to indemnify and hold the County harmless from all losses, expenses and costs including litigation expenses and attorney fees resulting from the unauthorized use of such project exemption certificates.

2.6. BILLING AND PAYMENTS - Invoices should be submitted as detailed in the sub-sections below. Payment shall be made within thirty (30) days after receipt of a correct and valid invoice.

2.6.1. Invoices for all contracted work shall include the following information at a minimum:

- a. County's Contract Number.
- b. Name of the County Department and employee that requested the services.
- c. The date, time, and location of the service provided.
- d. Details of the service provided.

Note: If the above information is not noted on the invoice, it will be returned to the Contractor for additional information before payment can be made.

2.6.2. Invoices for services performed at the addresses listed below shall be sent to **Facilities Maintenance, 613 East Ash, Room 106, Columbia 65201.**

- a. 607 East Ash Street, Columbia, MO 65201
- b. 613 East Ash Street, Columbia, MO 65201
- c. 601 East Walnut Street, Columbia, MO 65201
- d. 605 East Walnut Street, Columbia, MO 65201
- e. 609 East Walnut Street, Columbia, MO 65201
- f. 705 East Walnut Street, Columbia, MO 65201
- g. 801 East Walnut Street, Columbia, MO 65201
- h. 5501 Oakland Gravel Road, Columbia, MO 65201

2.6.3. Invoices for services performed at the addresses listed below shall be sent to **Public Works, 5551 Tom Bass Road, Columbia, MO 65201.**

- a. 5551 Tom Bass Road, Columbia, MO 65201
- b. 950 East Highway 124, Hallsville, MO 65255

2.6.4. Invoices for services performed at the address listed below shall be sent to: **Boone County Commission, 801 East Walnut Street, Room 333, Columbia, MO 65201.**

- a. 1021 East Highway 22, Centralia, MO 65240

3. PRIMARY SPECIFICATIONS

3.1. SCOPE OF WORK - It is the intent of the County to secure a Term and Supply contract for Pest Control Services covering routine and on-call services for control of rats, mice, roaches, ants, silverfish, crickets, mites centipedes, water-bugs, fleas, flies, moths, mosquitoes, bees, wasps, hornets, carpet beetles, maggots, fruit flies, clover mites, and other insects common to the area.

3.2. BACKGROUND INFORMATION – The contract resulting from this Request for Bid will replace contract number 48-18SEP12. To view past award information, please navigate to Bid Awards on our website and select 2012. More information that includes the previous Request for Bid and Bid Tabulation can also be found on our website in the 2012 Bid Archives.

3.3. ESTIMATED USAGE - All requests for service shall be made on an “as needed” basis. The County does not guarantee a minimum usage of the prospective contract, and the County does not guarantee that the Contractor’s service will be utilized. In addition, the County reserves the right to utilize other vendors as well as in-house staff when deemed necessary. The average yearly expenditures based on past usage against this contract have been approximately \$2,400.00. The expenditures specified herein are estimates only based on past usage and anticipated future requirements do not constitute a guarantee on the part of the County.

3.4. CONTRACTOR RESPONSIBILITY / SERVICE REQUIREMENTS:

3.4.1. Prevention – Contractor shall take all actions and procedures necessary to prevent the infestation of pest on County property. Site visits and the application of pest control chemicals shall occur quarterly at all locations listed in Section 2.6. of the Request for Bid.

3.4.2. Schedule – Contractor shall provide Designees with a list of scheduled treatment dates and times for each calendar year.

3.4.3. Call Backs – For the purpose of this contract, a “Call back” shall be defined as any request for eradication of infestation prior to or between scheduled routine visits. The contractor shall provide a complete written record of all callback visits performed. These records shall indicate the time, date, type of pest control services requested, and corrective measures taken to eliminate the infestation. The contractor shall be available to respond to callback requests within a twenty-four (24) hour period upon notification. All callback services performed shall be included as part of the contract and shall be performed at no additional charge to the County.

3.4.4. Signature of Completion – Upon completion of all routine and unscheduled visits, the contractor shall certify that the work was completed by obtaining the signature of the County employee supervising the visit.

3.4.5. Chemical Applications – All chemicals used on County property shall be odorless and nontoxic to humans.

3.4.6. Safety Data Sheets – Contractor shall provide, prior to application, copies of current Material Safety Data Sheets (MSDS) to the County Designee for all chemicals to be applied as part of the pest control services. The County reserves the right to refuse the use of chemicals its deems hazardous.

3.4.7. Designee – Bob Davidson, Manager of Facilities Maintenance, 613 East Ash Street, Room 106, Columbia, MO 65201; and Greg Edington, Assistant Manager of Public Works, 5551 Tom Bass Road, Columbia, MO 65202.

3.5. CONTRACTOR QUALIFICATIONS AND EXPERIENCE

3.5.1. Qualifications - The Bidder shall possess the correct occupational licenses, all professional licenses, or other authorizations necessary to carry out and perform the work required by the project pursuant to all-applicable Federal, State, and Local laws, statutes, ordinances, and rules and regulations of any kind.

3.5.1.1. The Bidder should submit copies of licenses with the bid indicating that the entity bidding the project is licensed to perform the activities or work included in the contract documents.

3.5.2. Experience - The Bidder should provide evidence that they have past experience in the type of work as outlined in the specifications for a minimum of three (3) consecutive years immediately preceding the submission of this bid.

3.6. OTHER CONDITIONS AND REQUIREMENTS

3.6.1. Bid Clarification - Any questions or clarifications concerning bid documents should be addressed in writing, PRIOR TO BID OPENING, to Cheli Haley, Buyer, 613 E. Ash, Room 109, Columbia, Missouri 65201. Telephone (573) 886-4392; Fax (573) 886-4390, E-mail: chaley@boonecountymo.org.

3.6.2. Award of Contract - The County reserves the right to award to more than one (1) supplier. Multiple awards may be made on the basis of a primary, secondary, and tertiary supplier. The primary supplier shall furnish the County's requirements until such time as the County determines that it is in the best interest of the County to seek performance from the secondary supplier, then tertiary supplier. The County's decision will be based upon the ability of the primary source to supply acceptable goods or services within the County's time requirements. The County's decision to utilize the secondary and tertiary sources shall be final and conclusive. In addition, the resulting contract from this Request for Bid will be considered "Non-Exclusive". The County reserves the right to obtain service from other suppliers.

3.6.2.1. The County of Boone reserves the right to accept or reject any and all bids in the best interest of the County.

4. RESPONSE PRESENTATION AND REVIEW

4.1. RESPONSE CONTENT - In order to enable direct comparison of competing Responses, Bidder is to submit their Response in strict conformity to the requirements stated herein. Failure to adhere to all requirements may result in your Response being disqualified as non-responsive. All Responses should be submitted using the provided Response Sheet. Every question should be answered, and if not applicable the section must contain "N/A" or "No Bid".

4.2. SUBMITTAL OF RESPONSES - Responses are to be received by the date and time noted on the title page. NO EXCEPTIONS. We are not responsible for late or incorrect deliveries from the U.S. Postal Service or any other mail carrier.

4.2.1. Submittal Package - Submit, to the location specified on the title page, **four (4) complete copies** of your Response in a single sealed envelope, clearly marked on the outside with your company name and return address, **the proposal number** and the due date and time.

4.3. ADVICE OF AWARD - A Bid Tabulation of responses received as well as Award status can be viewed at www.showmeboone.com.

4.4. BID OPENING - On the date and time and at the location specified on the title page under "Bid Opening", all Responses will be opened in public. Brief summary information from each will be read aloud.

- 4.5. REMOVAL FROM VENDOR DATABASE - If any prospective Bidder currently in our Vendor Database to whom the Bid was sent elects not to submit a Response and fails to reply in writing stating 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.
- 4.6. RESPONSE CLARIFICATION - We reserve the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.
- 4.7. REJECTION OR CORRECTION OF RESPONSES - We reserve the right to reject any or all Responses. Minor irregularities or informalities in any Response which are immaterial or inconsequential in nature, and are neither affected by law nor at substantial variance with Bid conditions, may be waived at our discretion whenever it is determined to be in the County's best interest.
- 4.8. EVALUATION PROCESS - Our sole purpose in the evaluation process is to determine from among the Responses received which one is best suited to meet the County's needs at the lowest possible cost. Any final analysis or weighted point score does not imply that one Bidder is superior to another, but simply that in our judgment the Contractor selected appears to offer the best overall solution for our current and anticipated needs at the lowest possible cost.
- 4.9. METHOD OF EVALUATION - We will evaluate submitted responses in relation to all aspects of this Bid.
- 4.10. ACCEPTABILITY - We reserve the sole right to determine whether goods and/or services offered are acceptable for County use.
- 4.11. ENDURANCE OF PRICING - Your pricing must be held until contract execution or sixty (60) days, whichever comes first. In the cost evaluation, a unit price conversion will be done to fairly evaluate bid prices. However, for any resulting contract, the unit of measure bid will be the unit of measure awarded. The bidder is cautioned that the County reserves the right to clarify the unit of measure modification or to disqualify the bid for that line item if the unit of measure modification is not deemed appropriate or in the best interests of the County.

5. RESPONSE FORM

5.1. Company Information

Name: _____

Address: _____

Phone Number: _____ Fax Number: _____

Email: _____ Federal Tax ID: _____

- Corporation
- Partnership Name: _____
- Individual/Proprietorship Name: _____
- Other: _____

5.2. **Pricing:** Site visits and the application of pest control chemicals shall occur quarterly at the locations listed below. The County reserves the right to remove or add locations from this list at the discretion of the County.

Location	Address	Square Footage	Unit Price	Qty	Extended Total
Alternative Sentencing Center	607 East Ash Street	5,700	\$	4	\$
Boone County Annex	613 East Ash Street	5,211	\$	4	\$
Johnson Building	601 East Walnut Street	14,896	\$	4	\$
Community Services & IV-D	605 East Walnut Street	4,956	\$	4	\$
911 Services	609 East Walnut Street	2,668	\$	4	\$
Courthouse	705 East Walnut Street	98,000	\$	4	\$
Government Center	801 East Walnut Street	50,298	\$	4	\$
Vacant Building	101 North 7 th Street	5,250	\$	4	\$
Public Works Administration	5551 Tom Bass Road	15,200	\$	4	\$
Hallsville Facility (Office)	950 Highway 124	750	\$	4	\$
North Facility	5501 Oakland Gravel Road	11,700	\$	4	\$
Centralia Clinic	1021 East Highway 22	1,745	\$	4	\$
Grand Total		216,374			\$

5.3. Renewal Pricing Increases

First Renewal Term: _____ %

Second Renewal Term: _____ %

Third Renewal Term: _____ %

Fourth Renewal Term: _____ %

5.9. Cooperatives

Will you honor the submitted prices for use by other entities who participate in cooperative purchasing with Boone County, Missouri? (A negative response to this question will not affect evaluation of your bid.) Yes No

The undersigned offers to furnish and deliver the articles or services as specified at the prices and terms stated and in strict accordance with the specifications, instructions and general conditions of bidding which have been read and understood, and all of which are made part of this order.

Authorized Representative (Print Name): _____

Signature

Date

STATEMENT OF BIDDER'S QUALIFICATIONS

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

1. Name of Bidder: _____
2. Business Address: _____
3. When Organized: _____
4. When Incorporated: _____
5. List federal tax identification number: _____. If not incorporated, state type of business (sole proprietor, partnership, or other): _____. Fed tax ID or SS number: _____.
6. Number of years engaged in business under present firm name: _____
7. If you have done business under a *different name*, please give name and business location under that name: _____
8. Percent of work done by own staff: _____
9. Have you ever failed to complete any work awarded to your company?
 Yes No
If yes, where and why? _____
10. Have you ever defaulted on a contract or been in litigation for services performed?
 Yes No
If so, give details: _____

11. List of projects currently in progress: _____

12. List of contracts *with contact information*, completed within the last three (3) years, for similar services as described in this bid, including value of each: *Form provided on next page.*

*** Attach additional sheets as necessary ***

PRIOR EXPERIENCE

(References of similar services for governmental agencies are preferred)

Include references familiar with your company's work.

1. Prior Services Performed for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description of Prior Services:

2. Prior Services Performed for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description of Prior Services:

3. Prior Services Performed for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description of Prior Services:

INSTRUCTIONS FOR COMPLIANCE WITH HOUSE BILL 1549

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

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

<http://www.uscis.gov/e-verify>

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

CERTIFICATION OF INDIVIDUAL BIDDER

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

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

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

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

Applicant

Date

Printed Name

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

State of Missouri)
)SS.
County of _____)

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

Date

Signature

Social Security Number
or Other Federal I.D. Number

Printed Name

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

Notary Public

My Commission Expires:

CERTIFICATION REGARDING
DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION
LOWER TIER COVERED TRANSACTIONS

(Please complete and return with Bid)

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

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS FOR CERTIFICATION)

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

Print Name and Title of Authorized Representative

Signature

Date

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

1. Contractor shall comply with all applicable federal, state, and local laws and failure to do so, in County's sole discretion, shall give County the right to terminate this Contract.
2. Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the Boone County Department identified in the Request for Bid and/or Proposal.
3. The Boone County Commission has the right to accept or reject any part or parts of all bids, to waive technicalities, and to accept the offer the County Commission considers the most advantageous to the County. Boone County reserves the right to award this bid on an item-by-item basis, or an "all or none" basis, whichever is in the best interest of the County.
4. Bidders must use the bid forms provided for the purpose of submitting bids, must return the bid and bid sheets comprised in this bid, give the unit price, extended totals, and sign the bid. The Purchasing Director reserves the right, when only one bid has been received by the bid closing date, to delay the opening of bids to another date and time in order to revise specifications and/or establish further competition for the commodity or service required. The one (1) bid received will be retained unopened until the new Closing date, or at request of bidder, returned unopened for re-submittal at the new date and time of bid closing.
5. When products or materials of any particular producer or manufacturer are mentioned in our specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.
6. Do not include Federal Excise Tax or Sales and Use Taxes in bid process, as law exempts the County from them.
7. The delivery date shall be stated in definite terms, as it will be taken into consideration in awarding the bid.
8. The County Commission reserves the right to cancel all or any part of orders if delivery is not made or work is not started as guaranteed. In case of delay, the Contractor must notify the Purchasing Department.
9. In case of default by the Contractor, the County of Boone will procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby.
10. Failure to deliver as guaranteed may disqualify Bidder from future bidding.
11. Prices must be as stated in units of quantity specified, and must be firm. Bids qualified by escalator clauses may not be considered unless specified in the bid specifications.
12. No bid transmitted by fax machine or e-mail will be accepted.
13. The County of Boone, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is accepted by the County.
14. The County reserves the right to award to one or multiple respondents. The County also reserves the right to not award any item or group of items if the services can be obtained from a state or other governmental entities contract under more favorable terms. The resulting contract will be

considered “Non-Exclusive”. The County reserves the right to purchase from other vendors.

15. The County, from time to time, uses federal grant funds for the procurement of goods and services. Accordingly, the provider of goods and/or services shall comply with federal laws, rules and regulations applicable to the funds used by the County for said procurement, and contract clauses required by the federal government in such circumstances are incorporated herein by reference. These clauses can generally be found in the Federal Transit Administration’s Best Practices Procurement Manual – Appendix A. Any questions regarding the applicability of federal clauses to a particular bid should be directed to the Purchasing Department prior to bid opening.
16. In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.
17. Should an audit of Contractor’s invoices during the term of the Agreement, and any renewals thereof, indicate that the County has remitted payment on invoices that constitute an over-charging to the County above the pricing terms agreed to herein, the Contractor shall issue a refund check to the County for any over-charges within 30-days of being notified of the same.
18. **For all 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.



BOONE COUNTY PURCHASING
613 East Ash Street, Room 109
Columbia, MO 65201

NO BID RESPONSE FORM

Cheli Haley
Buyer
Phone: (573)886-4392
Fax: (573)886-4390
chaley@boonecountymo.org

BID INFORMATION:

Bid Number: 68-23OCT15

Bid Title: Pest Control Services – Term & Supply

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

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

Business Name: _____

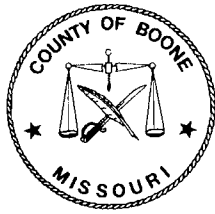
Address: _____

Telephone: _____

Contact: _____

Date: _____

Reason(s) for not bidding:



BOONE COUNTY, MISSOURI

Request for Bid #: 68-23OCT15 – Pest Control Services Term & Supply

ADDENDUM #1 - Issued November 6, 2015

This addendum is issued in accordance with the Request for Bid Response Page in the Request for Bid and is hereby incorporated into and made a part of the Request for Bid documents. Bidders are reminded that receipt of this addendum should be acknowledged and submitted with Respondent's Response Form.

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.

1. Do treatments for pest control need to be made during certain hours of the day?

No, with the exception of the courtrooms in Boone County Courthouse which can only be treated when court is not in session.

2. Does the County have specific pest control problems that will need special attention?

It is requested that the awarded contractor focus on mice at the buildings listed in Section 2.6.3. Also clover mites are a problem in the Government Center each spring. Facilities Maintenance recently requested treatment for fleas in the some of the buildings located in the downtown area of Columbia, but this matter is no longer of concern.

3. Does the County have problems with mosquitoes?

No, and the County is primarily interested in pest control services for the building interiors.

4. Clarification to Section 3.4.1. Prevention.

Contractor shall take all actions and procedures necessary to prevent the infestation of pest on County property. Site visits shall occur quarterly at all locations listed in Section 2.6. of the Request for Bid. The applications of pest control chemicals shall occur quarterly or as needed.

By: _____

**Cheli Haley,
Buyer**

RESPONDENT has examined **Addendum #1** to Request for Bid # 68-23OCT15 – Pest Control Services Term & Supply, receipt of which is hereby acknowledged:

Company Name: _____

Address: _____

Phone Number: _____ Fax Number: _____

E-mail: _____

Authorized Representative Signature: _____ Date: _____

Authorized Representative Printed Name: _____

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

In the County Commission of said county, on the

24th

day of

November 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 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System to CalAmp Radio Satellite Integrators of Torrance, CA.

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

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill

Daniel K. Atwill
Presiding Commissioner

Karen M. Miller

Karen M. Miller
District I Commissioner

Janet M. Thompson

Janet M. Thompson
District II Commissioner

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Boone County Purchasing

Cheli Haley
Buyer



613 E. Ash St., Room 110
Columbia, MO 65201
Phone: (573) 886-4392
Fax: (573) 886-4390

MEMORANDUM

TO: Boone County Commission
FROM: Melinda Bobbitt, CPPO, CPPB
DATE: November 16, 2015
RE: RFP Award Recommendation: *48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System*

The Request for Proposal for *48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System* closed on August 31, 2015. Eleven proposal response was received.

The evaluation committee consisted of the following:

Greg Edington, Assistant Manager, Road Maintenance Operations, Public Works
Charly Clendenning, Data Management Technician, Public Works
Robert Sapp, Mechanic, Public Works
Jason Warzinik, GIS Manager, Information Technology
Paula Evans, Administrative Assistance, Resource Management

The evaluation committee recommends award to CalAmp Radio Satellite Integrators of Torrance, California per their attached Evaluation Report for offering the lowest and best solution for Boone County.

The initial cost of equipment for 42 units is \$8,870.00 and will be paid from 2040 – Public Works-Maintenance Operations, 70050 – Software Service Contract. Monthly web tracking service for those 42 units is \$924.00 and will be paid from 2040 – Public Works-Maintenance Operations, 92300 – Replacement Machinery and Equipment.

ATT: Evaluation Report

cc: Proposal File

48-31AUG15 - MDC/GPS Vehicle Tracking & Fleet Management System

Bid Tabulation		Teletrac, Inc.		Pret
7.1.1	Base Price: MDC/GPS System	\$ 28.00	Price Per Vehicle	\$
7.1.2	Option 1: Snow Equipment	\$	Price Per Equipment	\$
7.1.3	Recurring Fees: Data Plans	\$	Price Per Month	\$
7.1.4	Delivery Time		Calendar Days	
7.1.5	Add Option 2: Training	\$	Price Per Session	\$
7.1.6	Training Days		Calendar Days	
7.1.7	Add Option 3: Installation	\$		\$
7.1.8	Installation Time		Calendar Days	
TOTAL		\$ 28.00		\$
7.2.	Warranty	Yes		
7.3.	Deviations from Specifications			
7.4.	Sub-contractors			

Bid Tabulation		Sprint Solutions, Inc.		Compass
7.1.1	Base Price: MDC/GPS System	\$ 199.99	Price Per Vehicle	\$ 272.52
7.1.2	Option 1: Snow Equipment	\$ -	Price Per Equipment	\$ 20.00
7.1.3	Recurring Fees: Data Plans	\$ 20.50	Price Per Month/Unit	\$ 24.94
7.1.4	Delivery Time	20/30	Calendar Days	30
7.1.5	Add Option 2: Training	\$ -	Price Per Session	\$ 125.00
7.1.6	Training Days	Unlimited	Calendar Days	1
7.1.7	Add Option 3: Installation	\$ 175.00	Price Per Device	\$ 5,250.00
7.1.8	Installation Time	30	Calendar Days	10
TOTAL		\$ 395.49		\$ 5,692.46
7.2.	Warranty			1 year, hardv
7.3.	Deviations from Specifications			CWU-4220, v
7.4.	Sub-contractors			Done Right Ir

Bid Tabulation		Synovia Solutions, LLC		AT&T Mobil
7.1.1	Base Price: MDC/GPS System	\$ -	Price Per Vehicle	\$ 155.00
7.1.2	Option 1: Snow Equipment	\$ -	Price Per Equipment	\$ 155.00
7.1.3	Recurring Fees: Data Plans	\$ 21.50	Price Per Month/Unit	\$ 22.00
7.1.4	Delivery Time	42	Calendar Days	2
7.1.5	Add Option 2: Training	\$ -	Price Per Session	\$ -
7.1.6	Training Days	Unlimited	Calendar Days	14
7.1.7	Add Option 3: Installation	\$ -		\$ 160.00
7.1.8	Installation Time	47	Calendar Days	14
TOTAL		\$ 21.50		\$ 492.00
7.2.	Warranty	Yes, see Response		Length of Coi
7.3.	Deviations from Specifications	None		None
7.4.	Sub-contractors	On Site Communications, Install		Certified Inst

Bid Tabulation		USCC Services, LLC		N
7.1.1	Base Price: MDC/GPS System	\$ 199.99	Price Per Vehicle	\$

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7.1.2.	Option 1: Snow Equipment	\$ -	Price Per Equipment	\$
7.1.3.	Recurring Fees: Data Plans	\$ 22.50	Price Per Month/Unit	\$
7.1.4.	Delivery Time	20/30	Calendar Days	
7.1.5.	Add Option 2: Training	\$ -	Price Per Session	\$
7.1.6.	Training Days	Unlimited	Calendar Days	
7.1.7.	Add Option 3: Installation	\$ 175.00	Price Per Device	\$
7.1.8.	Installation Time	30	Calendar Days	
TOTAL		\$ 397.49		\$
7.2.	Warranty	Yes, see Response		
7.3.	Deviations from Specifications	None		
7.4.	Sub-contractors	Orbital Customs, installation		

Cise MRM, LLC		Fleet Analytics, LLC	
Price Per Vehicle	\$	Price Per Vehicle	
Price Per Equipment	\$	Price Per Equipment	
Price Per Month	\$	Price Per Month	
Calendar Days		Calendar Days	
Price Per Session	\$	Price Per Session	
Calendar Days		3	Calendar Days
	\$		
Calendar Days		30	Calendar Days
	\$		
	5 years, software		

Com Software, Inc.		CalAmp Radio Satellite Integrators	
Price Per Vehicle	\$ 135.00	Price Per Vehicle	
Price Per Equipment	\$ 245.00	Price Per Equipment	
Price Per Month/Unit	\$ 19.00	Price Per Month/Unit	
Calendar Days		Calendar Days	
Price Per Session	\$ -	Price Per Session	
Calendar Days	Unlimited	Calendar Days	
<i>Price for All</i>	\$ 85.00	Price Per Device	
Calendar Days		Calendar Days	
	\$ 484.00		
ware & installation	1 year, products		
Pod, jPed, TTU-2830	Yes, see Response		
Installations Group	To Be Determined		

City National Accounts,		Ibtelematics	
Price Per Vehicle	\$ 50.00	Price Per Vehicle	
Price Per Equipment	\$ 50.00	Price Per Equipment	
Price Per Month/Unit	\$ 15.75	Price Per Month/Unit	
Calendar Days	30	Calendar Days	
Price Per Session	\$ -	Price Per Session	
Calendar Days	Unlimited	Calendar Days	
Price Per Vehicle	\$ 25.00	Price Per Device	
Calendar Days	30	Calendar Days	
	\$ 140.75		
Contract, devices	2 year, device/5 year, technology		
aller Required	None		

Networkfleet	
Price Per Vehicle	\$

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Price Per Equipment	\$	
Price Per Month	\$	
Calendar Days		
Price Per Session	\$	
Calendar Days		
	\$	
Calendar Days		
	\$	

**PURCHASE AGREEMENT
FOR
MDC/GPS VEHICLE TRACKING & FLEET MANAGEMENT SYSTEM**

THIS AGREEMENT dated the 24th day of November, 2015 is made between Boone County, Missouri, a political subdivision of the State of Missouri through the Boone County Commission, herein "County" and **CalAmp Radio Satellite Integrators**, 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, the County of Boone Request for Proposal for **MDC/GPS Vehicle Tracking And Fleet Management System** number **48-31AUG15**, any applicable addenda, and the Contractor's Proposal Response dated **August 21, 2015** and executed by **Jon Michels** 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 Proposal Response may be permanently maintained in the County Purchasing Office file for this proposal if not attached. In the event of conflict between any of the foregoing documents, this Purchase Agreement, the Request for Proposal, any applicable addenda and Boone County Standard Terms and Conditions shall prevail and control over the Contractor's Proposal 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 **an additional four (4) one-year periods** 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. The prices identified on the Response / Pricing Page of the Request for Proposal shall remain fixed for the identified initial contract period and all renewal periods.
3. **Purchase** - The County agrees to purchase from the Contractor and the Contractor agrees to supply the County all items/services per the proposal specifications, and responded to on the Response / Pricing Page, and in conformity with the contract documents for the prices set forth in the Contractor's Proposal Response, as needed and as ordered by the County. Pricing shall remain firm through the end of the fourth renewal period as follows:

a. INITIAL PURCHASE:

<u>Mobile Hardware with Warranty Included for (1) Year</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Price</u>
Mobile Unit (LMU 4220)	\$135.00	42	\$5,670.00
Mobile Units Configured for cellular network, Includes standard tamper alert back-up battery hard-wired, Includes all necessary cabling and mount			
<u>Additional System Options</u>	<u>Unit Price</u>	<u>Qty</u>	<u>Price</u>
Sensor Integration to existing on-vehicle sensor (broom, plow, PTO, door, box, etc)	\$50.00	5	\$250.00
Days of On-Site Training	\$1,000.00	1	\$1,000.00
Lot Travel Expenses (per trip)	\$950.00	1	\$950.00
<u>Monthly Web Tracking Service</u>	<u>Cost/Month/42 units</u>	<u>Months</u>	<u>Price</u>
CalAmp GovOutlook Tracking Service Fee	\$924.00	1	\$924.00
GovOutlook Web Browser Based ESRI ArcGIS Server Mapping & Reporting. Includes wireless data plan and unlimited Web software access. 30 second update rate,			

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plus stops, starts, turns, and events.
 Unit Price: \$22.00 Qty: 42 = \$924 per Month

TOTAL FOR INITIAL PURCHASE: \$8,794.00

b. TERM AND SUPPLY PRICING:

<u>Mobile Hardware</u>	<u>Unit Price</u>
Mobile Unit (LMU 4220)	\$135.00
Mobile Units Configured for cellular network	
Includes standard tamper alert back-up battery hard-wired,	
Includes all necessary cabling and mount	
Spreader Controller Interface	\$245.00
CalAmp costs only	
Mobile Unit Installation Per Vehicle	\$85.00
Client staff can be easily trained on installations	
<u>Monthly Web Tracking Service</u>	<u>Unit Price</u>
CalAmp GovOutlook Tracking Service Fee	\$19.00
GovOutlook Web Browser Based ESRI ArcGIS Server Mapping	
& Reporting. Includes wireless data plan and unlimited Web software access.	
Service fees are calculated per vehicle per month.	
Assumes 60 second update rate, plus stops, starts, turns, and events.	
Other update rates available as an option.	
30 seconds	\$22.00
10 seconds	\$25.00
Off Season Update Rate (6 month max)	\$10.00
<u>Additional System Options</u>	<u>Unit Price</u>
Days of On-Site Training	\$1,000.00
Lot Travel Expenses (per trip)	\$950.00
Sensor Integration to existing on-vehicle sensor	\$50.00
(broom, plow, PTO, door, box, etc)	
Engine Diagnostic Data Interface Add-On (Light Duty OBD-11)	\$85.00
Engine Diagnostic Data Interface Add-On (Heavy Duty JBus)	\$125.00
CalAmp Customized Garmin MDTs	\$375.00
Customized messaging and navigation device	
Includes Mount, Cabling, & Configuration	
CalAmp MDT-7 Mobile Data Terminal	\$495.00
Customized Android Based messaging and navigation device	
Include Mount, Cabling, & Configuration	
Can support significant optional customization.	
Mobile Unit (TTU)(Battery powered asset tracker)	\$185.00
Mobile Unit (LMU 5000)(High Speed Router)	\$595.00
Requires separate broadband wireless account.	
RF ID Reader (Driver ID)	\$250.00
Emergency Buttons	\$150.00
Wireless Handheld Medallion	
In Vehicle Button (Emergency or other status)	\$75.00
Hard-wired On-Vehicle Button	
Magnetic Card Stripe Reader (Driver ID)	\$125.00
iButton/Key Fob Reader (Driver ID)	\$95.00
Extended Annual Warranty on Hardware (per Unit)	\$18.00
Optional Hardware Warranty Past year one.	

4. **Delivery** – The equipment must be received within sixty (60) days of receipt of Notice to Proceed. All deliveries shall be made FOB Destination with freight charges included and prepaid. Contractor pays and bears the freight charges.

5. **Billing and Payment** - All billing shall be invoiced to the department requesting the services and equipment, and billings may only include the prices listed in the Contractor’s Proposal Response. No additional fees, taxes, or extra services not included in the Proposal Response shall be included as additional charges in excess of the charges in the Contractor’s proposal response to the specifications. The County agrees to pay all correct monthly invoices within thirty (30) days of receipt; Contractor agrees to honor any cash or prompt payment discounts offered in its Proposal 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 nine (9%) percent 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 (30) 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, 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.

CALAMP RADIO SATELLITE INTEGRATORS

by _____
title VP Government

BOONE COUNTY, MISSOURI

by: Boone County Commission
[Signature]
Daniel K. Atwill, Presiding Commissioner

APPROVED AS TO FORM:

[Signature]
County Counselor

ATTEST:

[Signature]
Wendy S. Noren, 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 the contract do not create in a measurable county obligation at this time.)

2040/70050 - \$7,870; 2040/92300-\$924; *initial purchase*
Term and Supply

[Signature]
Signature *by cey*

11/16/15
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.
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.



November 5, 2015

MDC.GPS Vehicle Tracking and Fleet Management System RFP# 48-31AUG15

Contract Addendum #1

CalAmp Radio Satellite Integrators adds the following language that shall supersede any conflicting content found in the contract, purchase agreement, RFP, and proposal document:

- 1) **Warranty Disclaimer:** THIS LIMITED WARRANTY STATES COUNTY'S EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY OR ANY DEFECTS IN THE PRODUCTS, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS OR SUITABILITY FOR A PARTICULAR PURPOSE.

NOTWITHSTANDING ANYTHING TO THE CONTRARY, IN NO EVENT WILL EITHER PARTY BE LIABLE TO THE OTHER PARTY, UNDER THIS AGREEMENT OR OTHERWISE, FOR ANY SPECIAL, COLLATERAL, INDIRECT, EXEMPLARY, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, ANY DAMAGE FOR LOSS OF GOODWILL, LOSS OF PROFITS, OR LOSS OF USE. IN NO EVENT WILL THE AGGREGATE LIABILITY OF CONTRACTOR TO COUNTY OR ANY THIRD PARTY ARISING UNDER THIS AGREEMENT, REGARDLESS OF THE CAUSE OF ACTION OR THEORY OF LIABILITY, EXCEED THE ACTUAL AMOUNT PAID BY COUNTY TO CONTRACTOR UNDER THIS AGREEMENT OVER THE PRIOR 12 MONTHS ("CONTRACTOR'S LIABILITY CAP")

- 2) **4.1.8. Indemnity Agreement:**

To the fullest extent permitted by law Subject to Contractor's Liability Cap, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with providing these services. This provision does not, however, require contractor to indemnify, hold harmless, or defend the County of Boone from its own negligence.



connecting tomorrow today

19144 Van Ness Avenue
Torrance, CA 90501
(310) 564-8500
Fax (310) 787-7435

August 31, 2015

Cheli Haley
County of Boone
Purchasing Department
613 East Ash Street, Room 109
Columbia, MO 65201

Re: RFP # 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

Dear Cheli Haley,

Please find our attached **RFP # 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System**. CalAmp is a world leader in the manufacturing and implementation of vehicle tracking systems using GPS technology. We have a long history of experience with GPS-based Automatic Vehicle Location systems and have been manufacturing and implementing systems since 1990. CalAmp has unparalleled experience implementing systems for all types of vehicle fleets. We currently have systems in place all over the country with large municipal governments such as: City of San Diego, Clark County, City of Oklahoma City, Miami-Dade County, City of Dallas, New York MTA, among many others.


With hundreds of AVL systems, and hundreds of thousands of units in place throughout the world, we urge you to learn more about how our approach allows us to offer a superior product that will best suit your needs at a great value.

Please feel free to contact me with any questions, concerns, or requests.

Proposer Contact:

Brett Lim
Phone: (310) 564-8500
Fax: (310) 787-7435
email: blim@calamp.com

Sincerely,



Jon Michels
Vice-President

7. RESPONSE / PRICING PAGE

In compliance with this Request for Proposal and subject to all the conditions thereof, the Respondent agrees to furnish the services/equipment/supplies requested and proposed and certifies he/she has read, understands, and agrees to all terms, conditions, and requirements of this proposal and is authorized to contract on behalf of the Respondent named below. Note that this form must be signed and that all signatures must be originals.

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Telephone: (310) 564-8500 Facsimile: (310) 787-7435

Email: blim@calamp.com

Federal Tax ID (or Social Security Number): 33-0477102

Print Name: Jon Michels Title: Vice-President

Signature:  Date: 8/21/15

7.1. Pricing:

The County is providing this Response Form for summarized pricing. Please attach a more detailed listing outlining the equipment, labor, installation, set-up, testing, and training with all costs. Costs shall include cost of equipment, add-on features cost, software cost (if applicable), training cost, labor, a minimum of five (5) years of renewal for equipment maintenance broken out per year, warranty, and any other costs. Fee proposal shall include full itemized pricing information. As appropriate, items should include professional fees, materials, out of pocket expenses, sub-consultant fees, and any other costs anticipated by the Respondent to satisfy the purpose of this Request for Proposal.

Any list of equipment is provided for informational purposes. Respondent shall price one of the identified acceptable models within or price an approved equal. Determination of equality is solely Boone County's responsibility. Please attach itemized pricing with brand and model numbers.

Please see attached pricing

	Description		
7.1.1.	Base Price: MDC/GPS System for Large Trucks, Equipment, and Other County Owned Vehicles	\$	Price Per Vehicle
7.1.2.	Add Option 1: Snow Equipment	\$	Price Per Equipment
7.1.3.	Recurring Fees: Data or subscription plans	\$	Per Month
7.1.4.	Delivery Time: Number of calendar days in which delivery will be complete following receipt of order		Calendar Days
7.1.5.	Add Option 2: Training Session	\$	Per Session

7.1.6.	Training Time: Number of calendar days allowed for training for receipt of order		Calendar Days
7.1.7.	Add Option 3: Installation	\$	
7.1.8.	Installation Time: Number of calendar days in which installation will be complete following receipt of order	\$	Calendar Days

7.2. Describe Warranty on equipment and labor (or attach description):

CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. See Warranty.

7.3. List any deviations to the required specifications/scope of work:

See Response to Specifications

7.4. List all sub-contractors that will be utilized on this project (if any):

To be determined

7.5. Provide a contract person who will be responsible for coordinating the efforts and personnel of all parties involved in the response, to include, but not be limited to, oral presentations, demonstrations, site visits, and responses to request for clarification, if any. Provide the following:

Name: Brett Lim

Organization: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Phone: (310) 564-8500

Facsimile: (310) 787-7435

E-Mail: blim@calamp.com

RESPONDENTS ACKNOWLEDGMENT

STATE OF California)
) ss
COUNTY OF Los Angeles)

On this 21st day of August, 2015, before me appeared

Jonathan Michels, to me personally known, who being first duly sworn by me, did say that he/she executed the foregoing Request for Proposal with full knowledge and understanding of all its terms and provisions and of the plans and specifications; that the correct legal name and address of the Respondent, including those of all partners of joint ventures, is fully and correctly set out above; that all statements made therein by or for the Respondent are true; and

(if a sole individual) acknowledged that he/she executed the same as his/h~~er~~ free act and deed.

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

(if a corporation) that he/she is the Vice President of Calamp President or Other Agent; that the foregoing Request for Proposal was signed Name of Corporation

and sealed in behalf of said corporation by authority of its board of directors; and he/she acknowledged said Proposal to be the free act and deed of said corporation.

In witness whereof, I hereunto set my hand and official seal at Los Angeles, California the day and year first above written.



(Seal)

Katherine Carver
Notary Public

My commission expires: 8/10/16

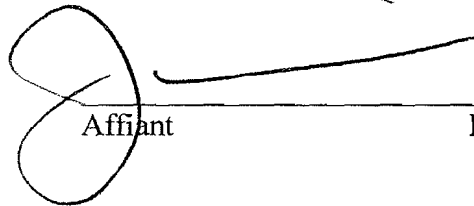
(Complete and fill out all parts applicable. Strike out all parts not applicable)

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

STATE OF California)
) ss
COUNTY OF Los Angeles)

My name is Jonathan Michels. I am an authorized agent of
CalAMP (Respondent). 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 8/21/15

Jonathan Michels
Printed Name

Subscribed and sworn to before me this 21st day of August 2015.

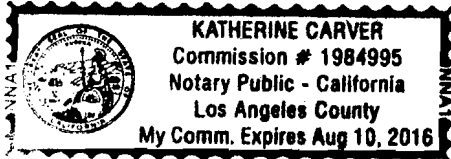

Notary Public See attachment

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles

Subscribed and sworn to (or affirmed) before me on this 21st
day of August, 2015, by Sonathan Michels

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.



(Seal)

Signature

Katherine Carver

SIGNATURE AND IDENTITY OF RESPONDENT

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

- Sole Individual Partnership LLC
- Corporation, incorporated under laws of the State of Delaware
- Other: _____

Name of individual, all partners, or joint venturers:

Address of each:

doing business under the name of:

CalAmp Radio Satellite Integrators

(If using a fictitious name, show this name Above in addition to legal names)

Address of principal place of business in Missouri

(If a corporation, show its name above)

Address of principal place of business in Missouri

ATTEST:



Signature

Dated August 21, , 2015

Jon Michels
Print Name and Title

NOTE:

If the Respondent is doing business under a FICTITIOUS NAME, the Proposal shall be executed in the legal name of the individual, partners, LLC, or corporation, with the legal address shown, and the REGISTRATION OF FICTITIOUS NAME filed with the Secretary of State, as required by RSMo Secs. 417.200 - 417.230 shall be attached.

If the Respondent is a CORPORATION NOT ORGANIZED UNDER THE LAWS OF MISSOURI, it shall procure a CERTIFICATE OF AUTHORITY TO DO BUSINESS IN MISSOURI, as required by RSMo Secs. 351.570 et seq.

A CERTIFIED COPY of such Registration of Fictitious Name or Certificate of Authority to do Business in Missouri shall be returned with the Respondent's Proposal.

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).

(READ INSTRUCTIONS BEFORE COMPLETING 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.

Jon Michels, Vice-President

Print Name and Title of Authorized Representative



Signature

8/21/15

Date

(Please complete and return with Proposal)

STATEMENT OF RESPONDENT'S QUALIFICATIONS

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

1. Name of Respondent: CalAmp Radio Satellite Integrators

2. Business Address: 19144 Van Ness Ave, Torrance, CA 90501

3. When Organized: 1980

4. When Incorporated: 1983

5. List Federal Tax ID or SS Number: 33-0477102. If not incorporated, state type of business (sole proprietor, partnership, or other): _____

6. Number of years engaged in business under present firm name: 25

7. If you have done business under a *different name*, please give name and business location under that name: _____

8. Percent of work done by own staff: 90%

9. Have you ever failed to complete any work awarded to your company?

Yes No

If yes, where and why? _____

10. Have you ever defaulted on a contract or been in litigation for services performed?

Yes No

If so, give details: _____

11. List of projects currently in progress: See Experiences

12. List of contracts *with contact information*, completed within the last five (5) years, for similar services as described in this proposal, including value of each: *Form provided on next page.*

*** Attach additional sheets as necessary ***

PRIOR EXPERIENCE

Include references familiar with your company's work performance. References of similar services for governmental agencies are preferred.

1. Prior Equipment and/or Services Provided for:

Company Name:

Address: Please see References in proposal

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

2. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

3. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

4. Prior Equipment and/or Services Provided for:

Company Name: Please see References in Proposal
Address:

Contact Name:
Telephone Number:

Date of Contract:
Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

5. Prior Equipment and/or Services Provided for:

Company Name:
Address:

Contact Name:
Telephone Number:

Date of Contract:
Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

ANTI-COLLUSION STATEMENT

STATE OF California)
) ss
COUNTY OF Los Angeles)

Jonathan Michels, being first duly sworn, deposes and says

that he/she is VICE President of CalAmp;
Title of Person Signing Respondent

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

Affiant further certifies that Respondent is not financially interested in, or financially affiliated with, any other Respondent for this project.

By _____

By _____

By _____

Sworn to before me this 21st day of August, 2015.



Katherine Carver
Notary Public

My Commission Expires: 8/10/16

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles

Subscribed and sworn to (or affirmed) before me on this 21st
day of August, 2015, by Jonathan Michels

proved to me on the basis of satisfactory evidence to be the
person(s) who appeared before me.



(Seal)

Signature Katherine Carver



BOONE COUNTY, MISSOURI

Request for Proposal #: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

ADDENDUM #1 - Issued August 11, 2015

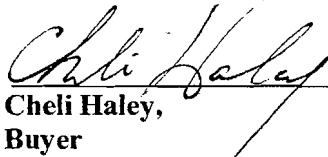
This addendum is issued in accordance with the RFP Response Page in the Request for Proposal and is hereby incorporated into and made a part of the Request for Proposal documents. Respondents are reminded that receipt of this addendum should be acknowledged and submitted with Respondent's *Response Form*.

Specifications for the above noted Request for Proposal 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.

- 1) The County was asked to provide a list of vehicles and assets to be included in the fleet management system.

Response: Please see the attached document to view the requested information.

By:


Cheli Haley,
Buyer

RESPONDENT has examined **Addendum #1** to Request for Proposal # 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System, receipt of which is hereby acknowledged:

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Phone Number: (310) 546-8500 Fax Number: (310) 787-7435

E-mail: blim@calamp.com

Authorized Representative Signature:  Date: 8/21/15

Authorized Representative Printed Name: Jon Michels



BOONE COUNTY, MISSOURI

Request for Proposal #: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

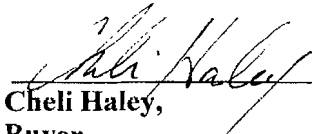
ADDENDUM #2 - Issued August 14, 2015

This addendum is issued in accordance with the RFP Response Page in the Request for Proposal and is hereby incorporated into and made a part of the Request for Proposal documents. Respondents are reminded that receipt of this addendum should be acknowledged and submitted with Respondent's *Response Form*.


Specifications for the above noted Request for Proposal 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.

- 1) The County received the following question:
 - a. Is the County required to provide log books to the Department of Transportation?

Response: No.

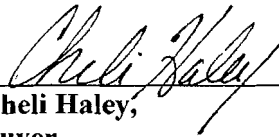
By: 
Cheli Haley,
Buyer

RESPONDENT has examined **Addendum #2** to Request for Proposal # 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System, receipt of which is hereby acknowledged:

Company Name: CalAmp Radio Satellite Integrators
Address: 19144 Van Ness Ave, Torrance, CA 90501
Phone Number: (310) 564-8500 Fax Number: (310) 787-7435
E-mail: blim@calamp.com
Authorized Representative Signature:  Date: 8/27/15
Authorized Representative Printed Name: Jon Michels, Vice-President

- 6) Please provide additional information concerning the carrier and the carrier's announcement to retire the service?

Response: The carrier currently being used for the County's vehicle tracking and fleet management is AT&T. Please contact AT&T directly for an exact retirement date for 2G technology.

By: 
Cheli Haley,
Buyer

RESPONDENT has examined **Addendum #3** to Request for Proposal #: *48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System*, receipt of which is hereby acknowledged:

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Phone Number: (310) 564-8500 Fax Number: (310) 787-7435

E-mail: blim@calamp.com

Authorized Representative Signature:  Date: 8/27/15

Authorized Representative Printed Name: Jon Michels, Vice-President



BOONE COUNTY, MISSOURI
Request for Proposal #: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

ADDENDUM #3 - Issued October 6, 2015

This addendum is issued in accordance with the RFP Response Page in the Request for Proposal and is hereby incorporated into and made a part of the Request for Proposal documents. Respondents are reminded that receipt of this addendum should be acknowledged and **submitted with Respondent's Response Form.**

Specifications for the above noted Request for Proposal 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.

- 1) Clarification to Section 3.4.6. of the Request for Proposal:

The system shall allow for report configurability of GPRS defined by power up, power down, interval(s), wake-up, and switch change to allow management of the data costs associated with sending information over the air and allow optimization of data costs by determining how often they want to see information about the asset.

- 2) Clarification is requested on the GPRS (2G Technology). As this is a carrier specific technology, please clarify by coverage, speed or provide any information on the cellular technology.

Response: Please propose a system that is compatible with 3G technologies or better.

- 3) Please clarify "syncs" with vehicles actual odometer and hour meter in Section 3.3.12.? Is the County suggesting bi-directional communications with the engine diagnostics to confirm actual values; does the County want the system to report the actual odometer and engine hours coming from the engine diagnostics; or does the County want the system to calculate the odometer from GPS locations? And does the County report engine time from the on/off ignition switch?

Response: The County does not have a preference for odometer and hour meter reports, and yes, engine time is reported from the on/off ignition switch.

- 4) Is the County referring to average accuracy of GPS location in Section 3.3.4. of the Request for Proposal?

Response: Yes.

- 5) What Model(s) Force America ACS Spreader Controller is being referred to in Section 3.4.1.?

Response: Freedom Systems.

- 6) Please provide additional information concerning the carrier and the carrier's announcement to retire the service?

Response: The carrier currently being used for the County's vehicle tracking and fleet management is AT&T. Please contact AT&T directly for an exact retirement date for 2G technology.

By:


Cheli Haley,
Buyer


RESPONDENT has examined **Addendum #3** to Request for Proposal #: *48-31AUG15 - MDC/GPS Vehicle Tracking and Fleet Management System*, receipt of which is hereby acknowledged:

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Phone Number: (310) 564-8500 Fax Number: (310) 787-7435

E-mail: blim@calamp.com

Authorized Representative Signature:  Date: 8/27/15

Authorized Representative Printed Name: Jon Michels, Vice-President



BOONE COUNTY, MISSOURI
Request for Proposal #: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

ADDENDUM #4 - Issued August 28, 2015

This addendum is issued in accordance with the RFP Response Page in the Request for Proposal and is hereby incorporated into and made a part of the Request for Proposal documents. Respondents are reminded that receipt of this addendum should be acknowledged and submitted with Respondent's Response Form.

Specifications for the above noted Request for Proposal 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.

- 1) The County received the following question:

How many FORCE controllers do you have verses Freedom systems?

Twelve (12) trucks will have the Freedom systems and four (4) trucks will have Force America systems.

By:


Cheli Haley,
Buyer

RESPONDENT has examined Addendum #3 to Request for Proposal #: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System, receipt of which is hereby acknowledged:

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave

Phone Number: (310) 564-8500 Fax Number: (310) 787-7435

E-mail: blim@calamp.com

Authorized Representative Signature:  Date: _____

Authorized Representative Printed Name: Brian Burda



connecting tomorrow today



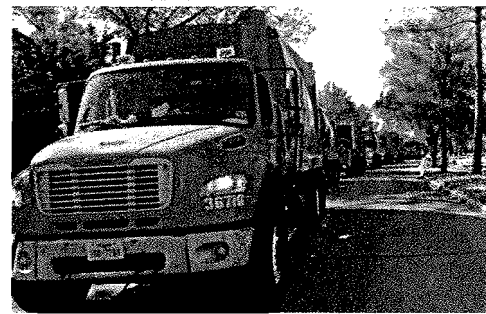
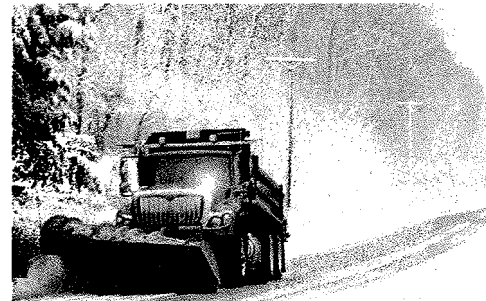
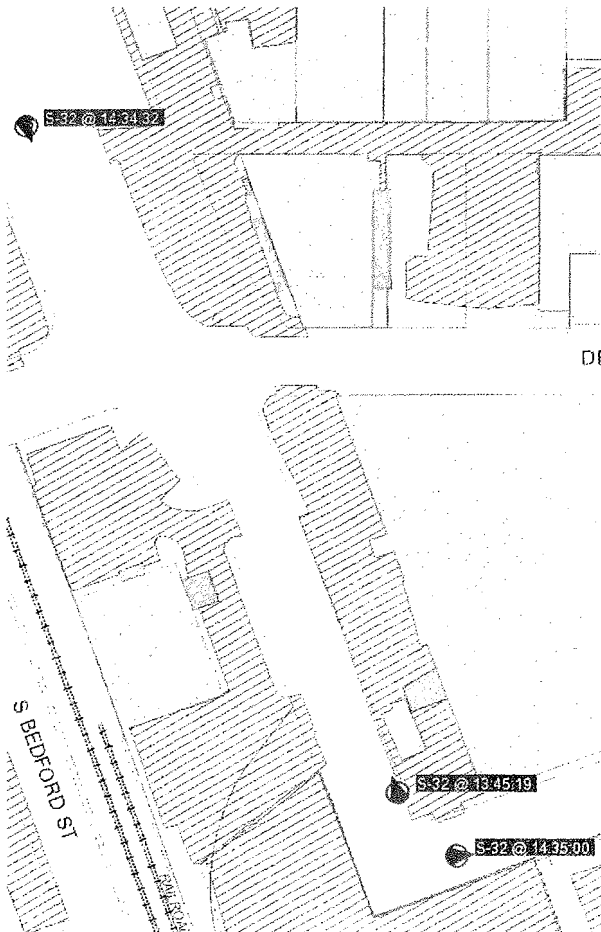
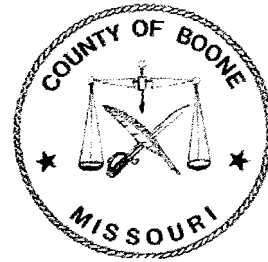
Proposal to:

County of Boone

RFP #: 48-31AUG15

MDC/GPS Vehicle Tracking and
Fleet Management System

August 31, 2015





County of Boone
RFP #: 48-31AUG15
MDC/GPS Vehicle Tracking & Fleet Management System
August 31, 2015



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CalAmp Corp.

Title Page

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Date:

August 31, 2015

Subject:

CalAmp Response to County of Boone's RFP# 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System.

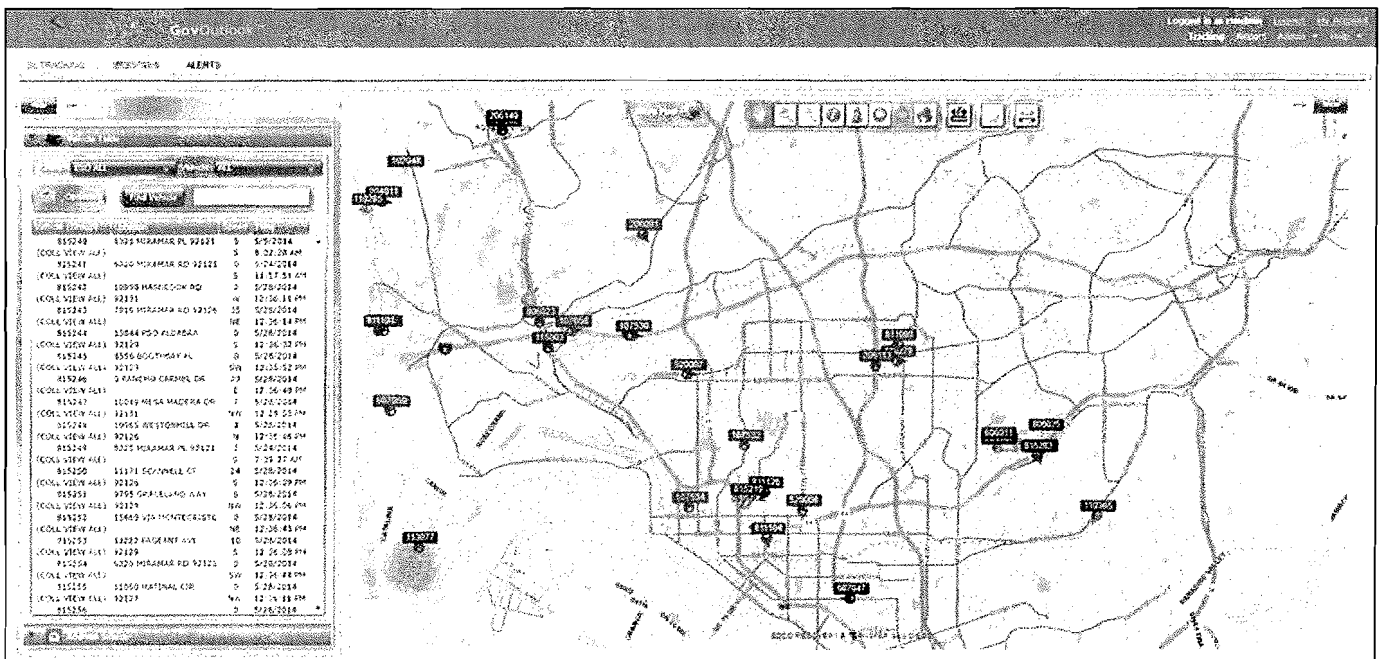


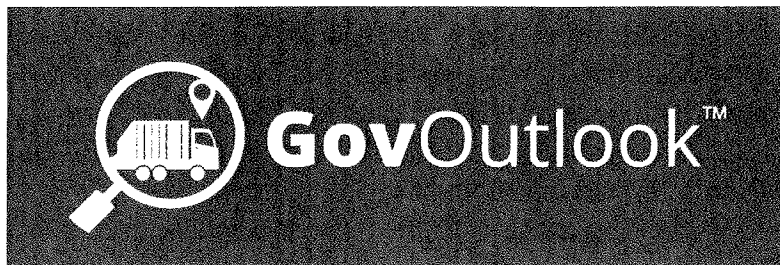
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Executive Summary

County of Boone's Objectives:

County of Boone seeks an Automatic Vehicle Location system solution to meet the unique requirements of their vehicle fleet and various departmental operations. County of Boone desires to implement an AVL system to enhance the ability to efficiently manage the assignment of vehicle operations; to use the AVL system to increase employee safety, productivity, and service to the citizens of County of Boone.



The CalAmp GovOutlook AVL Solution:

Our GovOutlook AVL system is based on Esri ArcGIS and will provide the client with the tools for faster and more efficient fleet and mobile resource management along with real-time and historical data that can be used for a variety of administrative tasks or analysis.

Using our line of cellular based GPS devices, the CalAmp GovOutlook system will provide real-time vehicle location and other status data on our Web based AVL map software interface from our remotely hosted servers. The CalAmp GovOutlook platform can direct and communicate two way data with virtually any variety of third party database or application via Web Service, Map Service, etc.



Our Commitment

CalAmp has provided Automatic Vehicle Location (AVL) and mobile data systems that work to the highest levels of performance, reliability, and scalability since 1990. We are one of the oldest and most experienced GPS vehicle tracking system providers in the industry and have manufactured millions of GPS units fielded throughout the world. **CalAmp has notable experience with local government, utility, and municipal/county fleets. We are proud to offer CalAmp's GovOutlook system, especially designed for government.** CalAmp stands ready to continue to support our services and products for sophisticated government agencies with the high standards expected of the industry's leading manufacturer and provider of AVL technology.

Our AVL Experience

In recent years, CalAmp's acquisition of Radio Satellite Integrators, Wireless Matrix, and others has given us unparalleled local government experience and a market-leading AVL solution based on Esri ArcGIS Server technology. CalAmp has directly implemented hundreds of AVL systems in hundreds of thousands of vehicles and has the largest breadth of AVL experience of any company in the world. We manufacture over 2 million M2M devices annually. CalAmp leverages this real world experience with municipal and government fleets to offer you the most innovative and reliable AVL systems on the market.

CalAmp Mobile Units

CalAmp is the world leader in GPS unit manufacturing and can offer a wide variety of the newest state-of-the-art AVL devices for various customer needs. The CalAmp LMU series of mobile GPS devices can be equipped with a variety of networks, options, serial ports and sensors that integrate to virtually any devices and external status signals, such as: ignition on/off, door open/shut, armature, PTO, lights, plow, engine diagnostics, data terminal, ID reader, etc. Alternatively, our full feature in-vehicle routers offer high-speed connectivity in the mobile environment in addition to vehicle tracking.

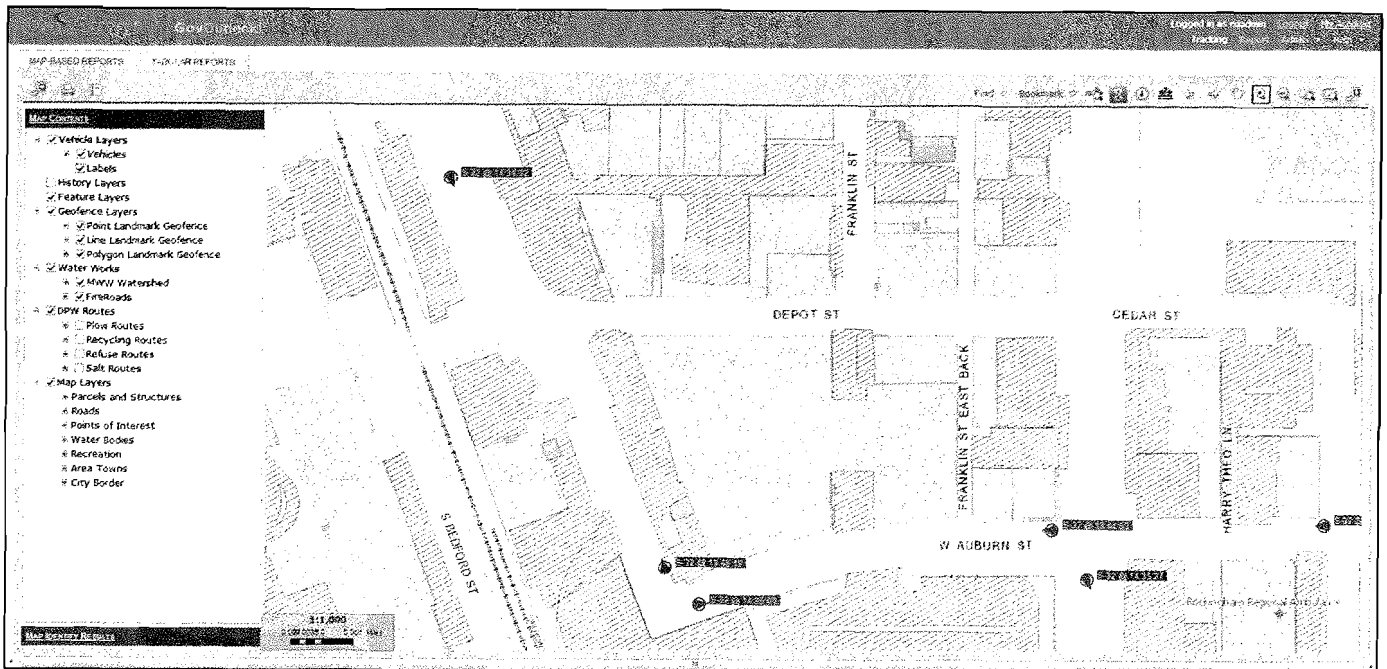
GovOutlook AVL Software

CalAmp's **GovOutlook Application** is based on Esri ArcGIS Server and can be implemented in a variety of configurations and is a hosted Web browser based software as a service. Engineered and designed as an enterprise level Government AVL solution, GovOutlook is uniquely tailored for specific end-user departments (such as sanitation and snow plows) as well as fleet managers.

The In-Vehicle Equipment and Base Application are linked via two-way cellular wireless communications (or optionally other technologies), allowing for timely data transmission between the field and software.

Wireless Communications

CalAmp can use virtually any wireless carrier for the communications portion of this system, however we highly recommend the Verizon cellular network for the best coverage and value. CalAmp has worked with more communications technologies in our 20+ years of technology leadership than any other vendor in this marketplace. CalAmp GovOutlook systems can use any type of public data network (cellular) including: GPRS, GSM, HSPA, EV-DO, CDMA, 3G, 4G/LTE, and many others. Using various types of mobile units, CalAmp also has the capability to field hybrid solutions, which use a combination of multiple communications mediums simultaneously such as satellite, WiFi, and others. **Please see the Wireless Communications Section in the proposal.**



Company Profile



1401 N. Rice Avenue
Oxnard, CA 93030
USA

About CalAmp

CalAmp (NASDAQ: CAMP) is a proven leader in providing wireless communications solutions to a broad array of vertical market applications and customers. CalAmp's extensive portfolio of intelligent communications devices, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These solutions enable customers to optimize their operations by collecting, monitoring and efficiently reporting business critical data and desired intelligence from high-value remote assets.

For more information and a detailed financial statement, please visit www.calamp.com.

CALAMP VITALS

- Proven leader in MRM and M2M space
- Founded in 1981; publicly traded since 1983 (NASDAQ: CAMP)
- Headquartered in Oxnard, California; 8 offices worldwide
- Number of Employees: Approx. 400
- Annual device run rate: Approx. 2M units
- More than 3 million devices under management on our platforms
- 400K+ unique software application subscribers

Market Cap (5/8/15): 712.88M
Revenue (ttm): 250.61M
Revenue Per Share (ttm): 7.00

Gross Profit (ttm): 87.40M
Total Cash (mrq): 44.36M
Total Debt (mrq): 688.00K

AVL Experience



THE CITY OF SAN DIEGO

City of San Diego: The City of San Diego has the eighth largest population in the country and a metro area population of over 3 million. Through an extensive competitive selection process, the City selected and contracted CalAmp to provide a comprehensive enterprise AVL system for their vehicles. CalAmp implemented a city-wide AVL system that encompasses every city-owned vehicle spanning over a dozen different departments. The CalAmp GovOutlook system spans over 3500 vehicles and all city agencies including: public utilities, environmental services, parks, police, fire, inspectors and many more.



New York City Transit

New York Metropolitan Transit Authority (MTA): MTA's New York City Transit is responsible for public transportation throughout New York City, including subway and bus service. NYCT is the largest public transportation agency in North America and has a ridership of over 7 million trips daily and 2 billion trips annually. CalAmp has multiple contracts for various fleets within NYCT MTA. CalAmp has several different systems tracking snow plows, armored trucks, supply logistics vehicles, as well as bus support vehicles.



State of South Carolina: CalAmp has installed a state-wide AVL system for the State of South Carolina DOE that encompasses 6000 school buses across the state. The State owns all 6000 school buses and uses the CalAmp AVL system to insure the districts are operating and reporting on the buses in a satisfactory manner. Some of the several dozen school districts have the option to use the AVL system for their own operations if desired. The CalAmp system tracks virtually every device and sensor imaginable on each bus including doors, lights, arms, emergency exits, etc.



City of Dayton, OH: With a population of nearly 800,000, the City of Dayton metropolitan area is one of the largest in the state of Ohio. The City of Dayton implemented an AVL system from CalAmp to track hundreds of vehicles for both the public works and water departments. In addition to tracking extensive vehicle fleet activity, the CalAmp GovOutlook system installed at City of Dayton also tracks driver identification using RF ID proximity readers and the City's existing ID badges, allowing administrators to accurately attribute vehicle usage and behavior to specific drivers.



City of Dallas: The City of Dallas is at the heart one of the largest metropolitan areas in one of the largest states in the country. CalAmp is currently implementing a city-wide AVL system with the City of Dallas. After a thorough and competitive RFP process, CalAmp was selected more than a dozen proposals to provide a turn-key AVL system that **City of Dallas** is starting with the solid waste fleet. The enterprise level AVL system will thereafter be expanded to potentially every one of the 5000 city-owned vehicles throughout dozens of city departments.



City of Suffolk: The City of Suffolk, is located in the Hampton Roads area of southeastern Virginia and has a population of approximately 85,000. The City acquired the CalAmp GovOutlook AVL system in order to track and manage its vehicle fleet across multiple departments including public work and public utilities. Integrated to their Esri GIS map data, the City is able to track and analyze their fleet activity with high precision. Some City vehicles are equipped with customized Garmin units to enable driver login and two way messaging with the base software users.



City of Ann Arbor: Ann Arbor, Michigan is home to the world renowned University of Michigan. With a metro area of over 340,000 residents, Ann Arbor is one of the most progressive and forward thinking cities in the Midwest. The City selected CalAmp to provide real time vehicle tracking for its city vehicles, including public works and snow removal vehicles. Residents are able to log on to the City website and view the location of the snow plows relative to their routes and homes. Leveraging a shared Esri GIS technology, the city's snow plow routes are overlaid on the map display.



City of Fargo, ND: The City of Fargo is the capitol and largest city in the State of North Dakota with over 100,000 residents. Known for its extremely harsh winters, the average low temperature in January is a 0.1 degrees Fahrenheit and it gets about 52 inches of snow per season. In order to better manage and track their snow plows, the City of Fargo and its surrounding county of Cass County, both selected CalAmp GovOutlook to provide an integrated comprehensive AVL system to track a variety of trucks and snow plows.



City of Charlottesville: Home to the prestigious University of Virginia, the City of Charlottesville is a bustling college town with a population just under 44,000 residents. The City spent several years vetting AVL vendors for its unique needs for several departments before finally selecting CalAmp. The process was spearheaded by the Public Works Department and their specific needs for their snow plow fleet operations. In addition to snow plows the City tracks vehicles for Water, Waste Water, Gas, and Public Service vehicles among other departments.



Miami-Dade County: Miami-Dade County has the largest population in Florida and the 8th largest in the United States. CalAmp has implemented a large countywide AVL system for several departments and agencies including Public Works, Building Inspectors, Neighborhood Compliance, Solid Waste, Fire, Consumer Services, Water, and Community Action. Using CalAmp's GovOutlook Esri ArcGIS Server based Web browser interface, county departments are able to better manage their mobile assets and provide improved customer service. With over 1400 vehicles installed, the system is constantly growing department by department.



City of West Allis, WI: The City of West Allis, Wisconsin is a city of approximately 60,000 people located within Milwaukee County. West Allis is an industrial suburb of the City of Milwaukee and the city government provides a wide variety of municipal services using several specialized departments. The City uses the CalAmp GovOutlook system to manage multiple department vehicle fleets with varying functions and

responsibilities. Continually expanding, the system currently supports departments including: Streets, Water, Sanitation, and Forestry among others.



Boston Water and Sewer Commission: CalAmp has implemented a turn-key Automatic Vehicle Location system for Boston Water and Sewer Commission. The (BWSC) currently operates water and sewer services for the City of Boston. The full end-to-end AVL system utilizes 2-way radio for wireless communications. With over 200 vehicles in the service fleet Boston Water & Sewers serves over a half million people in the greater Boston metropolitan area. The AVL system uses both ESRI ArcView as well as ArcGIS 9.



City of Manchester, New Hampshire: Centered in a metro area of over 400,000 people, the City of Manchester is the largest city in the state of New Hampshire. The City uses that CalAmp GovOutlook AVL system to track hundreds of vehicles from various departments, including: Public Works, Highway, Parks, and Water. In particular, the City uses the GovOutlook system to track and report on their snow plows fleet within their Highway Department to monitor snowfighting operations including plow mileage and time.



City of Oklahoma City: The City of Oklahoma City has implemented a CalAmp GovOutlook system over several departments including Water, Solid Waste, and Street Maintenance. Encompassing a wide variety of vehicles, the CalAmp GovOutlook system provides different reports for different groups and vehicles. Some departments are using the CalAmp customized Garmin messaging terminal to provide instant communication between driver and dispatcher. In addition the CalAmp GovOutlook system is tracking various sensor and events on certain vehicles such as lights, signs, and PTO activation.



Snohomish County: Home to the City of Everett, Snohomish County is the third most populated county in the State of Washington with over 722,000 residents. With a large unincorporated area around its cities, Snohomish County uses the CalAmp AVL system to manage and track its large vehicle fleet in both dense urban areas and remote forests. Snohomish County tracks multiple departments using the CalAmp AVL system including its snow plow fleet in heavy snow fighting events.



Clark County: Clark County, Nevada is home to the world renowned entertainment, gambling, and tourist destination of Las Vegas. With nearly 2 million permanent residents, Clark County is the most populous county in the State of Nevada. Clark County is a massive local government operation, with over 8,500 county employees, 1800 vehicles, and 8,100 square miles of land. In order to effectively manage their expansive vehicle fleet operations and maintenance, the County selected CalAmp to supply a state-of-the-art AVL solution that not only provides real time vehicle location and usage, but interfaces to engine diagnostics from the vehicles' on-board computers.



City of Miami Beach: Home to the glamorous area known as South Beach, the City of Miami Beach also includes nearly 90,000 residents who depend on the City for a variety of standard civil and municipal services. Encouraged by the overwhelming success of CalAmp's AVL system for local Miami-Dade County, Miami Beach selected CalAmp to provide a highly

customized and integrated AVL system for City vehicles. The CalAmp GovOutlook system is able to leverage the advanced Esri GIS mapping technology that the City has developed and uses in-house.



City of Tacoma: Just south of Seattle, Washington lies the City of Tacoma. With a population of 200,000 the City of Tacoma is the third largest city in the state. Through a competitive RFP process, the City of Tacoma selected CalAmp to provide a turn-key AVL system to provide GPS tracking capabilities for its Solid Waste division vehicles. CalAmp outfitted the City' solid waste vehicles with an AVL system that included sensors for tracking the automatic armature lifts and relating the data to the City's Esri GIS map data and customer database.



City of Santa Fe: With nearly 70,000 residents, the City of Santa Fe, is one of the largest cities and capitol of the State of New Mexico. Taking note of the success of the CalAmp GovOutlook system in neighboring Bernalillo County (Albuquerque), the City of Santa Fe piggy-backed off the existing AVL contract with CalAmp to purchase their own system. The City now tracks 170 vehicles across multiple departments such as: Public Works, Water, Environmental Services, and many others.



City of Fresno: CalAmp has implemented a full scale multi-agency AVL system for the City of Fresno. With a fast growing population around 1 million people in the greater metro area, the city looked to CalAmp to provide a customized AVL system for the Water, Sewer, and Planning agencies within the City. Spanning over 450 vehicles and dozens of computer workstations, the system is integrated with the City's extensive Esri GIS mapping programs. The system has several key features including sensors on the sanitation vehicle loading arms.



San Antonio Water System (SAWS): SAWS is a public utility owned by the City of San Antonio, TX providing water and services to more than 1.6 million people in the greater San Antonio Metropolitan Area. Tracking a wide variety of service vehicles, the GovOutlook system allows SAWS to manager their mobile resources more efficiently and increase customer service over the eight county coverage area..



City of Huntsville: With a metro area of over 400,000 residents Huntsville, Alabama needed an AVL solution to monitor its 800 city vehicles. Selected through a competitive RFP process, CalAmp won the contract and delivered a turn-key AVL system providing vehicle location software and reporting for various city departments. The system uses existing city infrastructure for wireless data transmission (WiFi) that is collected when the vehicles enter various city facilities and yards.

References

City of Dayton

Dayton, OH USA
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Snohomish County

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Contact: James Parker
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City of West Allis

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City of Longmont

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City of Ann Arbor

Ann Arbor, MI USA
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Contact: David Wilburn
dwilburn@a2gov.org

Additional references available upon request.



County of Boone
RFP #: 48-31AUG15
MDC/GPS Vehicle Tracking & Fleet Management System
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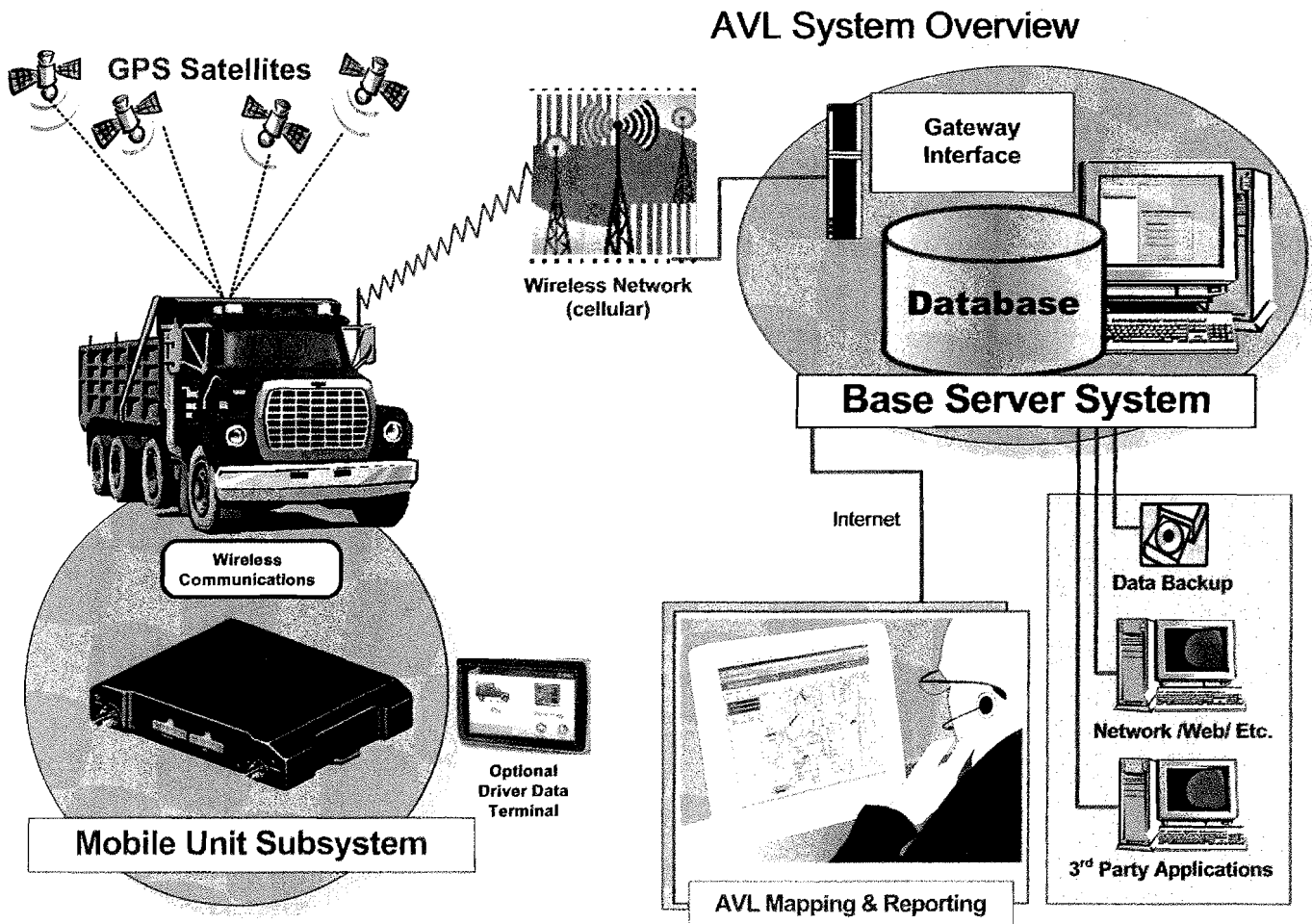


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Technical Overview



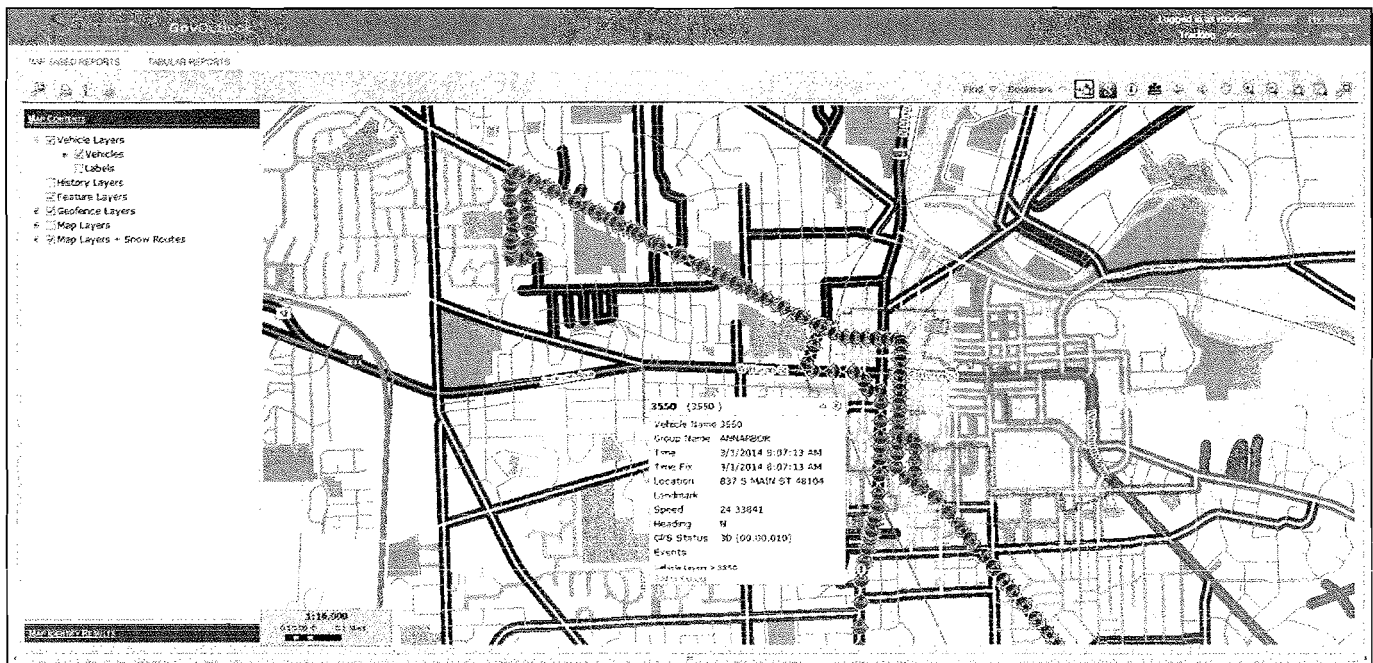
CalAmp's GovOutlook AVL System

The CalAmp GovOutlook solution consists of in-vehicle equipment and base applications and equipment. The **In-Vehicle Equipment is centered on the CalAmp LMU Mobile Unit**, a self-contained "black box" device integrating GPS location and sensor technologies, as well as wireless communications. The mobile device can be connected to any device or sensor including lights, ignition, doors open/closed, alarms, etc. In addition, any variety of in-vehicle computing devices such as laptops or MDT's can be connected to the unit and mounted for a driver interface to the system.

The LMU is responsible for the reporting of vehicle location and status information in addition to acting, if desired in the future, as a transparent communications gateway between the Base and Mobile Data or other onboard devices such as laptops, MDTs, tablets, etc.

The GovOutlook **Base Application** will be a configurable Web-browser based application based on Esri ArcGIS Server hosted offsite by CalAmp. Users interact with the system through industry-standard mapping tools as well as customized reporting applications. The CalAmp GovOutlook program will use the client's existing Esri GIS map data if it's available.

The Base Server manages all fleet communications and configuration, acts as a messaging and data transfer gateway between base-side applications and in-vehicle devices, and archives and distributes the vehicle location and status information to the mapping application over the Internet. The Base Server will be hosted by CalAmp in our state-of-the-art server hosting facilities.



Third Party System Integration

One of the main differences between CalAmp and other AVL providers is our unparalleled experience with integrating our AVL and mobile data systems with third party applications. CalAmp has worked with dozens of third party providers of scheduling, dispatch, work order management, maintenance, as well as “home-grown” applications for various agencies.

CalAmp has extensive experience interfacing with all types of third party applications such as:

- Work Orders
- Maintenance
- Scheduling
- Computer Aided Dispatch
- Routing
- Esri GIS
- Third Party Databases

The CalAmp GovOutlook system is based on Esri ArcGIS Server and a SQL database, and has been engineered to share data with third party applications in a variety of ways.

CalAmp is able to leverage its vast engineering experience to allow for the easy integration and real-time sharing of all system data with third party applications and databases. CalAmp has written interface programs specific to a number of applications and databases (using methods such as Web Services, Esri Map Services, COM/DCOM, ODBC, XML, SOAP, REST, TCP/IP sockets, CORBA, Oracle databases, data queues in an AS/400 environment, network files, etc.).

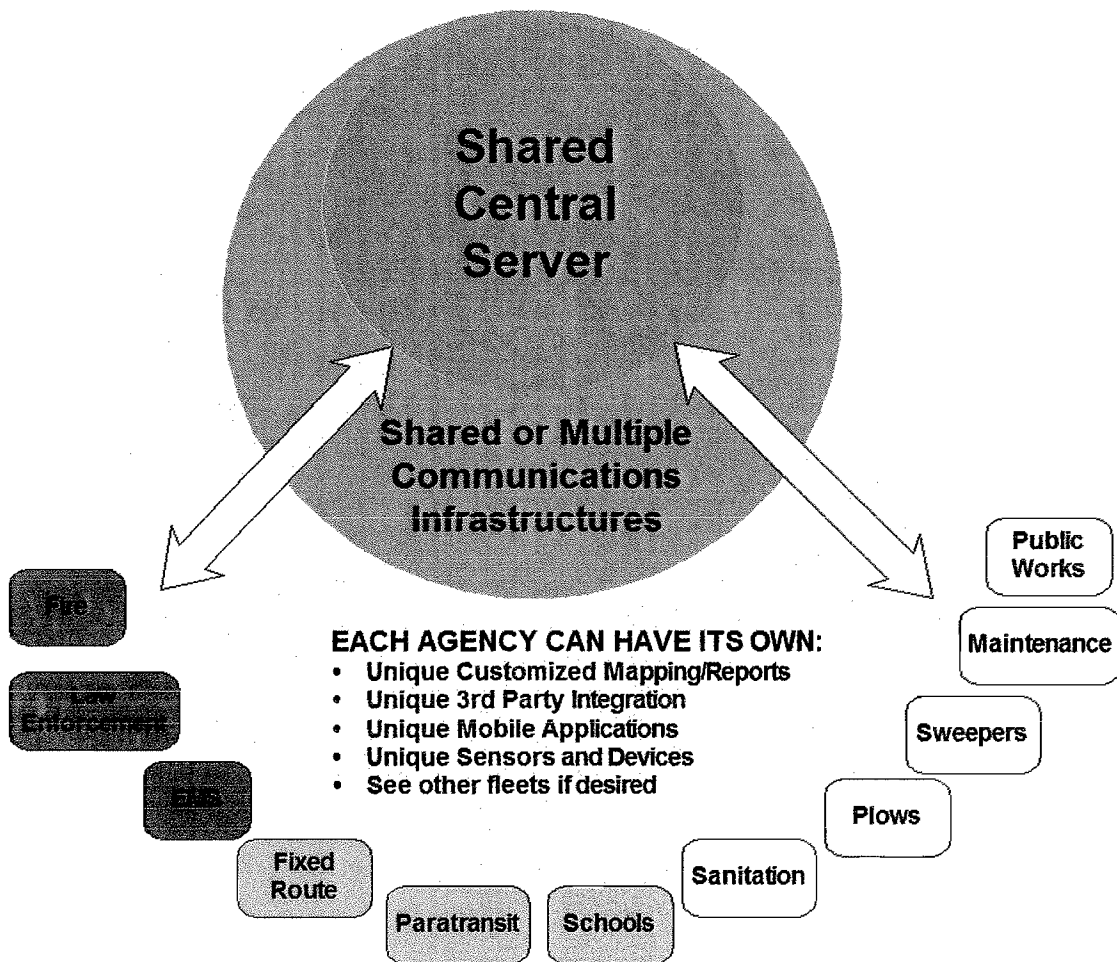
With dozens of customized integrated systems in place throughout the world, full system integration is just par for the course with the CalAmp system.

Enterprise Shared Multi-Agency Systems

CalAmp has extensive experience implementing large enterprise systems that can be shared by several agencies within one organization, city, county, etc. The CalAmp system can be configured so that specific users only view their own vehicle fleet group, maps, and reports, but the system will share the same backbone, servers, communications, etc.

For instance a city may only have to invest in one system yet their public works, parks, and fire departments can all use and share that same system.

CalAmp has implemented these shared enterprise systems for a variety of cities and counties throughout the country including many of the largest metro governments in the country.



Wireless Communications Options

Wireless data will be bundled into the monthly AVL system services fees to provide simple single point of contact and responsibility for all hardware, service, support, and billing issues related to all elements of the CalAmp system.

CalAmp can use virtually any cellular wireless carrier for the communications portion of this system. CalAmp recommends using the Verizon network for the best combination of value, coverage, and longevity. CalAmp has partnerships and capabilities with every major domestic wireless carrier, so if an alternative carrier is required, this is an option.

Update Rate

We typically recommend a one minute or thirty second update rate. The Unit will report at this default reporting rate **in addition** to the position/status data sent upon: ignition on/off, stops, starts, turns, and events. The update rate you need will depend on how frequently you want your location and other data from the vehicles. Update rates can adjust dynamically depending on factors such as vehicle status or the triggering of an on-board sensor.

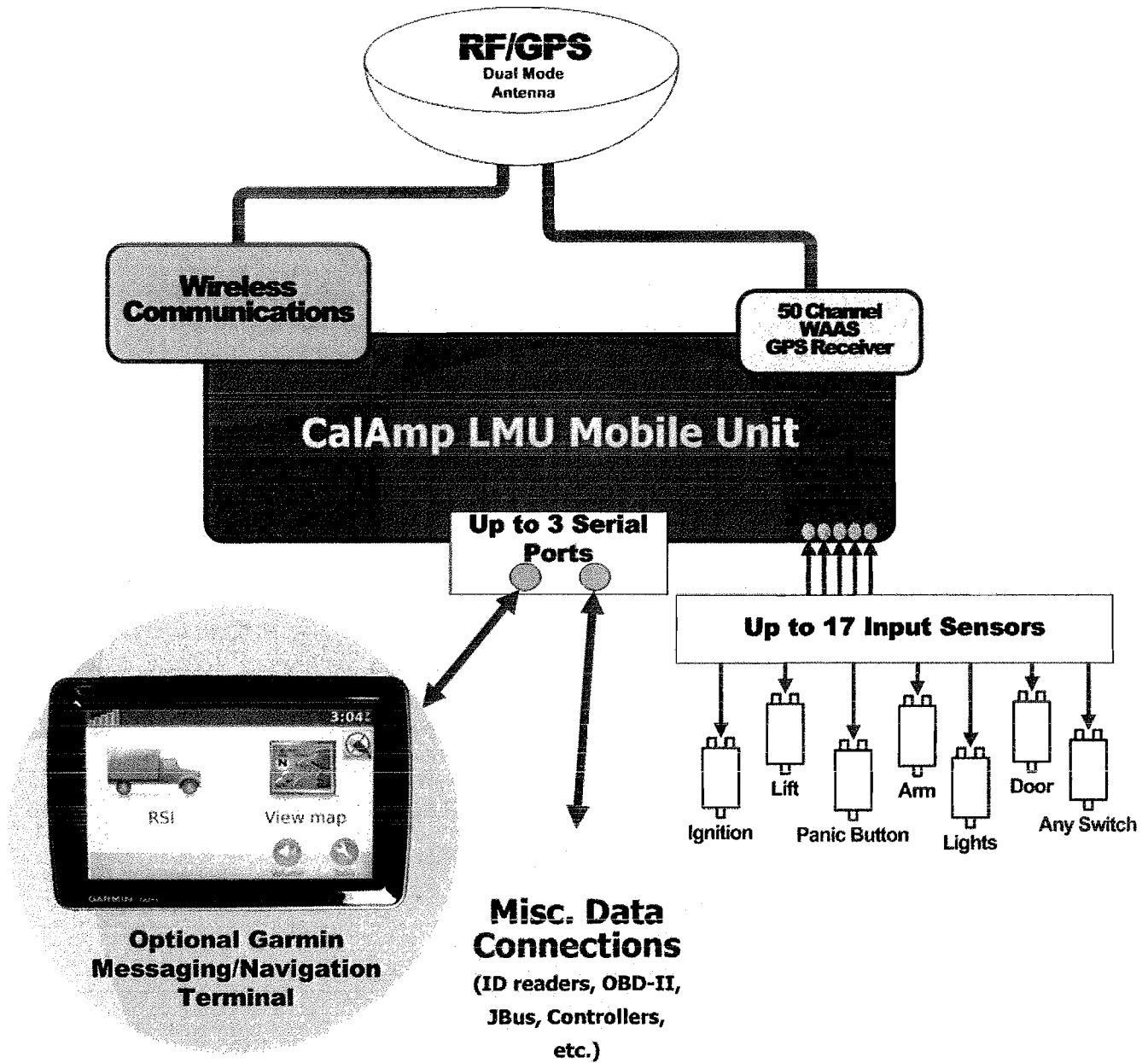
CalAmp will work with you to help determine an update rate for you as we have extensive experience implementing AVL systems with fleets just like yours. Monthly Service Pricing is determined by update rate.

Hybrid Communications Options

CalAmp specializes in engineering customized AVL systems that can use a combination of wireless communications technologies. Our mobile units can support any combination of: cellular, satellite, WiFi, private radio, and several others. CalAmp has unparalleled experience in the design and implementation of these complicated customized hybrid systems.

CalAmp has worked with more communications technologies in our 20+ years of technology leadership than any other vendor in this marketplace. There are several options for wireless communications and CalAmp is proficient with all of them.

CalAmp LMU Mobile Units



CalAmp LMU - AVL Mobile Units

The recommended CalAmp LMU Mobile Unit includes a dual-mode GPS and RF antenna and associated cabling (if necessary).

Each CalAmp LMU Mobile Unit contains a 50 channel GPS receiver (or greater), wireless communications, and optional multiple external data and sensor ports. To ensure reliability and availability of the entire system, the critical mobile units are built to exacting military standards to resist vibration, climate, and electromagnetic interference. First-quality components, extensive RF/EMI shielding, and specialty power conditioning circuits protect the GPS receiver and micro-controller in the “computer hostile” vehicular environment.

Each CalAmp LMU will be equipped with a state-of-the-art 50 channel, WAAS enabled, all-in-view GPS receiver. This GPS receiver delivers superior performance and field-proven reliability and provides for fast signal reacquisition, position accuracy, and the filtering of spurious and erroneous data. The GPS accuracy is 2 meters (7 feet).

CalAmp can offer multiple types of LMU mobile units with similar functionality that may support different wireless technologies as well as quantities and types of inputs/outputs.

The CalAmp LMU product line offers a wide variety of the newest state-of-the-art AVL devices for various customer needs. The CalAmp LMU mobile GPS devices can be equipped with a variety of networks, options, serial ports and sensors that integrate to virtually any devices and external status signals, such as ignition on/off, door open/shut, lights, plow, engine diagnostics, data terminal, ID readers, etc.

Some of the options that are available with CalAmp GovOutlook hardware are:

- Different wireless carriers.
- Various wireless networks: 2G (GPRS or CDMA), 3G (HSPA or EVDO Rev A), 4G/LTE or WiFi
- Engine Diagnostics (Light Duty OBD-II or Heavy Duty JBus)
- Customized Garmin or MDT Driver Interface for messaging, login, and navigation
- Driver ID Readers (RF ID, magnetic stripe cards, or iButton)
- Emergency Panic Buttons (dash mounted or wireless handheld buttons)
- Inputs/Outputs (sensors, serial ports, USB ports, Ethernet ports, WiFi hot spot)

Interface to Devices and Sensors

The CalAmp LMU Mobile Unit is optionally capable of interfacing to a wide variety of external mobile data terminals, mobile computing devices, in-vehicle peripherals, and various sensor systems. The CalAmp LMU Mobile Unit serves as a mobile gateway, paying particular attention to supporting a variety of devices. The CalAmp LMU Mobile Unit will be connected to the on-board vehicle power and optionally to any sensor signals as desired such as:

- Ignition on/off
- Ignition enabled/disabled
- Door open/locked
- Lights on/off
- Any device/event/switch/data source
 - Brooms/Plows/Spreader Controllers
 - Armature/device up/down
 - RF ID, Card Swipe Reader, iButton Driver ID
 - Vehicle Engine Diagnostics
 - Landmarking
 - Siren/Light Bar/Flashers
 - PTO
 - Cameras

Panic Button Option

The CalAmp LMU Mobile Unit can be equipped with an emergency panic button configuration that is a dashboard-mounted button that sends a priority signal over-the-air to the dispatch interface or real-time alert. CalAmp can also offer a wireless handheld panic button that can be activated up to 300 feet from the vehicle.

Driver ID Readers

CalAmp offers a variety of Driver ID solutions including readers that are compatible with existing customer ID cards such as RF ID and magnetic stripe cards. In addition CalAmp can offer an iButton key fob solution for unique stand-alone driver identification with a key fob and reader.

Antennas, Cables, and Connectors

The high gain antenna increases the ability for the GPS to receive weak signals under trees or canopy, while its very small design presents little or no profile for tampering or inadvertent damage. The CalAmp LMU Mobile Unit can use any type of GPS antenna that is required or specified. The CalAmp LMU Mobile Unit comes with all bracketing, cabling, and connectors required for full installation. CalAmp configures the system so it cannot be easily disabled by the driver and/or user.

Back-Up Tamper Alert Battery

Our CalAmp LMU devices come equipped with a small back-up battery that can alert the system immediately if power has been cut to the unit. The priority over the air message can be configured to notify specific users (via text, e-mail, or software) that power has been cut to the unit and its current position.

Harsh Driving Behavior Detection

The LMU devices are equipped with an accelerometer/gyroscope that can detect various types of movement anomalies such as harsh acceleration, harsh braking, as well as movement when the vehicle is not on. All of these exception events can be set to alert or appear in a report or dashboard.

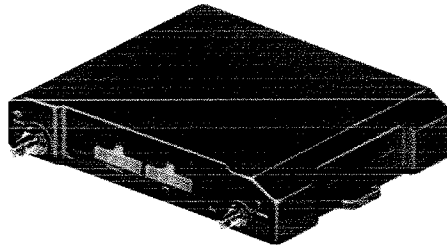
Engine Diagnostics

As an option, an interface to engine diagnostics can be added to the CalAmp LMU Mobile Unit giving you real-time access to engine trouble codes and other available vehicle information for either light duty (OBD-II) or heavy duty (JBus) vehicle types.

Diagnostic data available from the diagnostic interface varies greatly depending on the specific vehicle make, model, and year. Basic Diagnostic Trouble Codes (DTC), and mileage are typically available from most vehicles but it is not absolutely guaranteed. The availability of data for such things as Fuel Economy and seat belt usage varies greatly and is not available on many vehicle types.

The LMU with optional diagnostic interface is capable of capturing all basic (and non-proprietary) diagnostic data that is made available on each specific vehicle. Diagnostic data and trouble codes are far from standard, so certain data may/may not be available on every vehicle depending on make/model/year. This is a universal issue for all AVL providers.

CalAmp LMU 4220 Standard Mobile Unit



GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
Kick Start	3 sec @ -130 dBm
AGPS Capable	

CELLULAR

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data	
Operating Bands (MHz)		
GSM/GPRS	850/900/1800/1900	
CDMA/1XRTT	850/1800	
HSPA/UMTS	800(VI)/850(V)/900(VIII)/ 1700(IV)/1900(II)/2100(I)	
Transmitter Power		
GSM/GPRS	850/900	32.5 dBm
	1800/1900	29.3 dBm
CDMA/1XRTT	850	24 dBm
	1800	23 dBm
HSPA/UMTS	(all bands)	23 dBm
HSPA data rates	5.6 Mbps upload/7.2 Mbps download	
HSPA Fallback	EDGE/GPRS/GSM quad band EDGE MCS1-MCS9 3GPP Release 6	

COMPREHENSIVE I/O

Digital Ignition Inputs	1 fixed bias
Digital Inputs	7 (high/low selectable 0-30 VDC)
Digital Outputs	5 (open collector relay 150mA)
Current Limited Outputs	2 (20mA)
A/D Inputs	4 (0 - 30VDC, +/-0.1V accuracy)
1-Wire Interface	2 (driver ID, temperature sense)
Status LEDs	GPS and cellular

ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113

Specifications Subject to Change

ELECTRICAL

Operating Voltage	6-32 VDC
Power Consumption	4 mA @ 12 V (deep sleep) 10 mA @ 12 V (sleep on network with SMS) 20 mA @ 12 V (sleep on network with GPRS) 70 mA @ 12 V (active tracking)

PHYSICAL

Dimensions	4.3 x 3.2 x 0.86", (110 x 81 x 22mm)
Weight	4 oz, (113 g)

CONNECTORS, SIM ACCESS

SIM Access	Internal
External Cellular	SMC
External GPS	SMA (with tamper monitoring, 3.0V)
WiFi Option	RP-SMA
Vehicle Bus Option	DB-15
4-Pin Molex	Power, ground, ignition, A/D
Two 5-Pin Molex	Switched power serial
16-Pin Molex	Expansion port
22-Pin Molex	I/O connection

CERTIFICATIONS

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

MOUNTING

Tie-wrap, adhesive, or velcro
 Screw mounting bracket

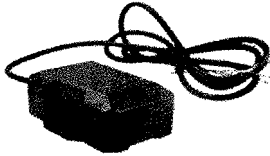
OPTIONAL FEATURES/FUNCTIONS

- External antennas (GPS, cellular, combined GPS/cellular)
- Serial adapter cable RS-232 8-wire (PPP, AT cCommands, NMEA GPS output)
- jPOD dongle for truck ECU interface
- Connectorized I/O wiring harnesses
- Built-in or external backup batteries

DEVELOPMENT SUPPORT OPTIONS

- Customized hardware and software development available on request

CalAmp TTU-2830 Mobile Unit (Weather-Proof+Battery Powered)



- 500 message cycles on fully charged battery pack
- 18 months with 0 messages until a final 30 min tracking session
- 6 months with single message cycle per day on fully charged battery pack
- Optionally configured with vehicle accessory power plug (cigarette lighter)

General Specifications

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50-channel GPS
Operating Voltage	12 and 24 volt systems

GPS Specifications

Location Technology	50-channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

Battery Pack Specifications

Battery Capacity	3.8 amp hour
Battery Operating Voltage	3.6 volts
Battery Technology	Lithium Ion

Cellular Specifications

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
GSM/GPRS Quad-Band	850/900/1800/1900 MHz
GSM/GPRS Output Power	Class 4 (2 Watts) 850/900 bands Class 1 (1 Watt) 1800/1900 bands
CDMA Dual-Band	800/1900 MHz
CDMA Output Power	800: +24dBm 1900: +24dBm
HSPA/UMTS Dual-Band	900/2100 MHz (bands VIII, I) or 850/1900 MHz (bands V, II) 3GPP release 6 5.6 Mbps upload, 7.2 Mbps download
GSM/GPRS/EDGE Fallback	850/900/1800/1900 quad-band GPRS class 12, EDGE MCS1-MCS9

Certifications

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

Comprehensive I/O

Digital Inputs	3 programmable bias
Digital Outputs	3 open collector (150mA)
Status LEDs	GPS and cellular

Electrical Specifications

Operating Voltage	6-32 VDC
Power Consumption	3 mA @ 12V (deep sleep) 10 mA @ 12V (sleep on network with SMS) 20 mA @ 12V (sleep on network with GPRS) 70 mA @ 12V (active standby)

Physical Specifications

Dimensions	4.3 x 3.2 x 1.6", (110 x 80 x 40 mm)
Weight	9.6 oz, (272 g)

Environmental Specifications

Operating Temperature	-30° to +75° C
Storage Temperature	-40° to +85° C
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI:	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

Connectors, SIM Access

SIM Access	Internal
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Mounting

Screw Mount
 Magnet Mount
 Tie Wrap

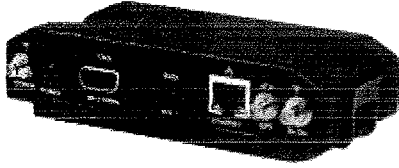
Key Features

- 6 months with single message cycle per day on fully charged batteries
- 3.8 Ah lithium ion re-chargeable battery pack
- IP66 sealed enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging
- Internal GSM and GPS antennas
- Super sensitive GPS (-162 dBm tracking)
- Ultra-low power safe mode (<1mA)
- 3-axis accelerometer for motion, hard braking/acceleration, and impact detection
- 3 inputs and 3 outputs
- Voltage monitoring and low battery notification
- 20,000 buffered messages for data logging during coverage loss
- 32 built-in geo-fences (and 5400 vertices for polygon zones)
- PEG™ Exception-Based Rules
- Automatic, Over-The-Air Unit configuration on Power-up (PULS™)
- Over-The-Air Firmware Download (PULS™)
- Web-Based Device Management (PULS™)
- J1939 & J1708 ECU interface support (option)
- OBDII ECU interface support (option)

Development Support Options

- Customized hardware and software development available on request

CalAmp LMU-5000 (AVL and LTE Router)



- Optional External WiFi Router Connectivity

LMU-5000 SPECIFICATIONS

PROCESSOR

Processor	ARM Cortex A9 32bit MCU
Speed	400 MHz
Flash	Up to 128MB
RAM	Up to 64MB @ 133MHz bus speed
Real Time Clock	

OPERATING SYSTEM, SOFTWARE INTERFACE, SECURITY

Operating System	Linux OpenWrt 3.3
Application Interfaces	TCP/IP, UDP/IP, DHCP, HTTP, IP Router, PPP, HTTP Web server, Telnet DHCP server, DDNS, DDNS Client, NAT, NMEA, TAIP, TSIP, GPS, TFTP, IP port forwarding
Security	VPN (SSL v2, TLS v1) SSH server, SCP, SFTP

GPS

Location Technology	GPS with SBAS, DGPS
Receiver Type	50 channels
Tracking Sensitivity	-162 dBm
Acquisition Sensitivity	-148 dBm
Location Accuracy	2.0m
AGPS Capable	

CELLULAR

LTE	700/800/900/2100/2600 MHz (depending on configuration) Downlink up to 100 Mbps (peak burst rate) Uplink up to 50 Mbps (peak burst rate) Fallback to HSPA/CDMA (depending on configuration)
HSPA Tri-Band	850/1900/1200 MHz diversity capability Downlink up to 7.2 Mbps Uplink up to 5.76 Mbps Fallback to HSDPA/UMTS/EDGE/GPRS/2.4GHz
EVDO Rev A Dual-Band	800/1900MHz diversity capability Downlink up to 3.1Mbps Uplink up to 1.8Mbps Fallback to CDMA 1X Rev 0 CDMA 1xRTT

DEVELOPMENT SUPPORT OPTIONS

Customized hardware and software development available on request

CERTIFICATIONS

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

COMPREHENSIVE I/O

Digital Inputs	7 (high/low selectable 0-30 VDC)
Digital Outputs	5 relay driver outputs (200mA) 2 low current LED outputs (20mA)
Voltage A/D input	4 ± 0.1V accuracy and voltage range 0-30VDC
1-Wire [®] Interface	2 (driver ID, Temperature sense)
Status LEDs	Power, COMM, GPS, Wi-Fi, and BT

ENVIRONMENTAL

Temperature	-30° to +70° C (connected to primary power) -40° to +85° C (storage)
Humidity	95% R.H. @ 50° C non-condensing
Shock and Vibration	U.S. Military Standard 202G and 801G, SAE J1455
EMC/EMI	SAE J1113

ELECTRICAL

Operating Voltage	7-32 VDC (momentary) 9-30 VDC (start-up, operating)
Power Consumption	13mA (deep sleep) 161mA (SMS+UDP connection, GPS off) 270mA (continuous transmit) 2A (peak transmitting)
Back Up Battery	Lithium-Ion 3.7 V 1000mAh (See online technical specifications for latest details regarding battery)

PHYSICAL

Dimensions	5.2 x 2.7 x 1.2" (131 x 67 x 29mm)
Weight	5.4.0 oz, (153g)

CONNECTORS, SIM ACCESS

SIM Access	Slot Access
Cellular	SMA main, SMA diversity
External GPS	SMA (with tamper monitoring, 3.0v)
External WiFi	SMA RP
Ethernet	10/100 Base-T RJ45
USB	On-The-Go (mini), Host Type A
Serial	1 DB-9 (RS232/RS485), 1 5-Pin Molex TTL level switch power
4-Pin Molex	Power, ignition, ADC
22-Pin Molex	I/O connections

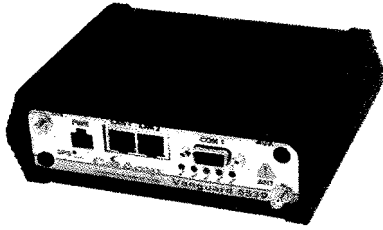
MOUNTING

Screw mounting bracket
Tie-wrap or adhesive

OPTIONAL ACCESSORIES

All necessary antennas (GPS, cellular, combined GPS/cellular)
Serial adapter cable RS-232 8-wire (PPP, AT commands, NMEA GPS output)
External jPOD™ truck ECU interface
Connectorized I/O wiring harnesses

CalAmp Vanguard 5530 (AVL and LTE WiFi Router)



The CalAmp Vanguard 5530 is a multi-function cellular router and features high-speed, secure LTE broadband wireless connectivity in a rugged industrial design, with optional WiFi and high-precision GPS for mobile applications.

GENERAL

Input Voltage	9 to 32 VDC
TX Power @13.8 VDC	350 mA (500 mA Mobile SKU)
RX Power @13.8 VDC	130 mA (240 mA Mobile SKU)
Diversity Support	Rx Diversity
Security	IPsec, GRE Tunneling, PPTP VPN RADIUS Client
Router	MAC Filtering, DMZ, Dynamic DNS
Device Management	SNMP, HTTP embedded web server
Certifications	Military Specs, Hazardous Env, UL Class I, Div II

CONNECTORS/INTERFACE

LED Indicators	RSSI, SVC, NET, GPS, AUX
Power	4-pin locking connector
Ethernet	Dual 10/100 Mbps RJ-45, auto MDIX, auto-negotiate, & activity LED
Serial	EIA-232F DE9 Female DCE, up to 115Kbps
I/O	7 digital inputs, 5 digital outputs, 4 analog inputs, 2 1-wire bus interfaces
Primary Antenna	50 Ohm SMA Female
RX Diversity Antenna	50 Ohm SMA Female
GPS Antenna	50 Ohm SMA Female (optional)
WLAN/WPAN Antenna	50 Ohm RP-SMA Female (optional)

MECHANICAL/ENVIRONMENTAL

Dimensions	4.5 (L)x6.0 (W)x1.9 (H) in, 11.4 x 15.2 x 4.8 cm
Weight	2.5lb, 1.13 kg
Temperature Range	-30° to +70° C, -22° to +158° F
Humidity	5% to 95% non-condensing

LTE TECHNOLOGY/BANDS

LTE CAT 3	Quad-band 700/850/AWS[1700/2100] 1900 MHz Downlink 100 Mbps; Uplink 50 Mbps
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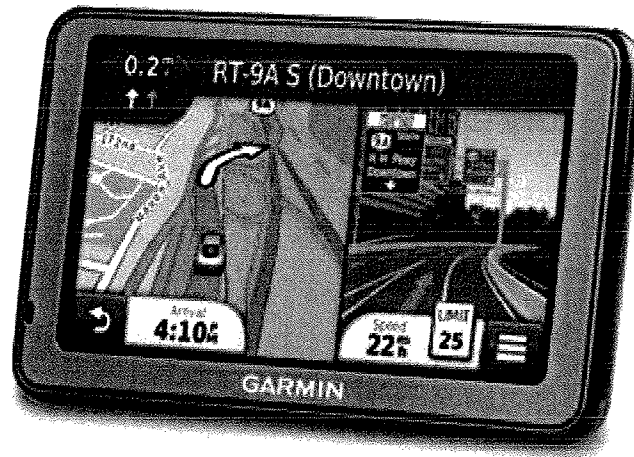
GSM TECHNOLOGY/BANDS

UMTS/HSPA	Quad-band 850/900/1900/2100 MHz Downlink 7.2 Mbps, Uplink 2.0 Mbps
EDGE/GPRS	Quad-band 850/900/1800/1900 MHz Downlink 236 kbps, Uplink 236 kbps
WLAN 802.11 b/g	2412-2462 MHz

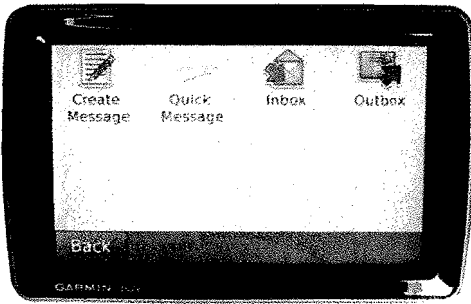
Specifications subject to change

Optional Customized Garmin Messaging Terminal

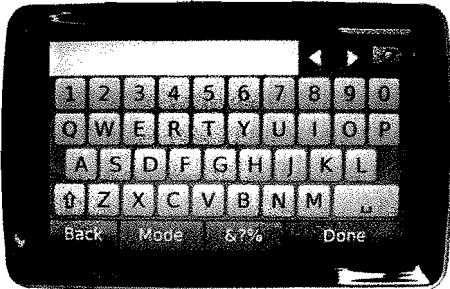
For systems that require integrated messaging and navigation capabilities for its drivers, CalAmp offers a customized Garmin navigation solution. This customization process allows us to use the Garmin unit as a messaging terminal providing both free form and pre-programmed status messages between the driver and the dispatch user. Leveraging the universally familiar Garmin color touch screen interface, CalAmp creates a powerful messaging and data terminal for your drivers. In addition to providing the standard Garmin navigation tools, the CalAmp customization allows the mobile user to do two-way messaging and view dispatched destinations, way points and custom routes (optional). Drivers can login to the system using a Driver and Route Login form, as well as send any variety of free form or preprogrammed status message to the base. CalAmp will work with you to determine how we can implement a system that fits your needs at the lowest cost possible.



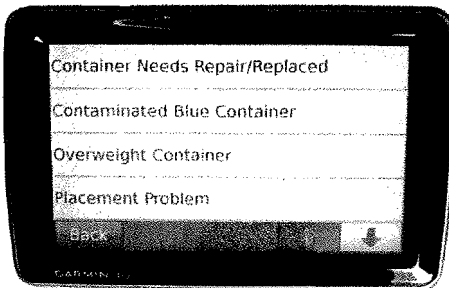

GARMIN™



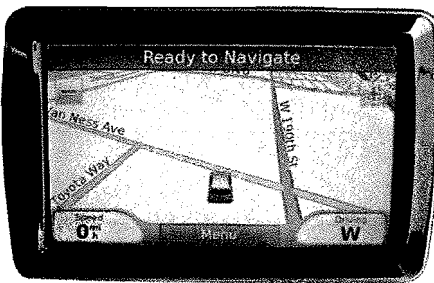
The CalAmp Garmin Unit can be configured to provide a simple two-way messaging interface between the driver and AVL mapping operator. All messages sent by the driver are time and location tagged and can be used for a variety of status updates and activity reporting.



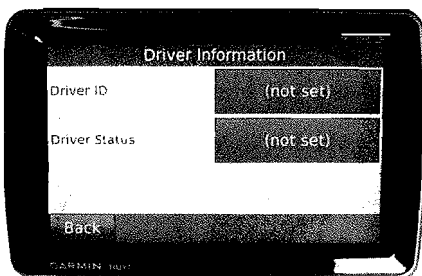
Messaging can be either free form text messages or preprogrammed (canned) status messages.



Canned messages can be custom created by CalAmp for any of your fleet's unique operations, priorities, and terminology. The driver simply selects a preprogrammed message to be sent back to the operator and system.

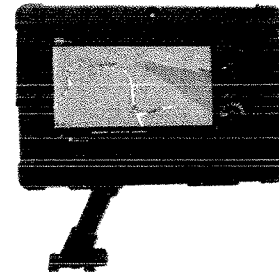
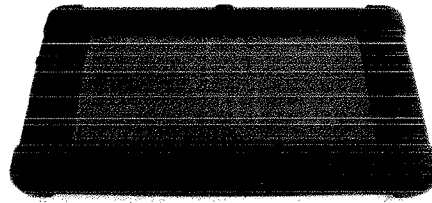


The CalAmp Garmin Unit also retains its core Garmin navigation functionality that provides voice guided turn by turn directions to the desired destination. The CalAmp Garmin Unit has multiple settings for a viewing the map and route as the driver is guided to the destination.



The CalAmp Garmin Unit allows the driver to log in to a vehicle with a unique ID as well as status.

Optional Mobile Data Terminal: MDT-7



With CalAmp's MDT-7, customers can develop and license user applications specific for their markets on the open Android OS environment and deliver these applications anywhere, anytime. CalAmp's MDT-7 is connected to CalAmp's leading LMU products either through a wired serial cable or wirelessly using Bluetooth or WiFi technologies. This makes MDT-7 ideally suited to deliver value-added applications to all types of fleet applications where a customizable driver interface is required.

SPECIFICATIONS

General

- **Operating System** Android™ 4.2.2 (Jelly Bean)
- **Processor** 1.5 GHz Cortex A9 Dual-Core Processor
- **Memory and Storage** 1 GB DDR3 Internal RAM, 8 GB Internal Flash, Micro SD Card Slot
- **Display** 7" 1024x600 LCD multi touch-five point, capacitive G+G

Connectivity

- **Serial Interface** USB 2.0
- **Wireless** WiFi 802.11 b/g/n, Bluetooth 2.1 + EDR

Electrical

- **Operating Voltage** 9-36V automotive supply through dock, 5 V mini USB connector, Li-polymer Battery 2000mAh/3.7V internal battery
- **Operating Modes** Running, stand by, or deep sleep
1-hour battery life, 3-hour charge time

Mechanical

- **Dimensions** 210 x 145 x 26 mm
- **Weight** 510g
- **Enclosure** Ruggedized IP53 Silicon Case
- **Connectors** Headphone, Mini USB OTG, Internal SD Card Slot
- **Hard Keys** On/Off, Volume +/-

Environmental

- **Temperature**-20° to +60° C (operating), -30° to +70° C (storage)
- **Shock and Vibration** SAE J1455

Mounting

- MDT Dock, with One-Touch quick release button
9-36V automotive supply through dock
Simple snap connect

Connects with multiple standard mounting solutions

GovOutlook Mapping and Display Application

Our powerful Web-Based mapping and display application, CalAmp GovOutlook, will provide operations personnel the capability to rapidly, geographically analyze the GPS information and make critical decisions. This application is based on an Esri ArcGIS Server Geographic Information System (GIS), which displays data collected from the mobile units at the Base Server. They run the tools and controls that enable the operations personnel to quickly adapt the information they are collecting and analyzing the views they are using to manage evolving situations.

The Mapping and Display Application provides valuable AVL Management tools:

- Real-Time Vehicle Tracking (map-based)
- Report Generation (tabular or map-based)

The assignment of user-permission levels allows access to appropriate sub-sets of the installed functionality.

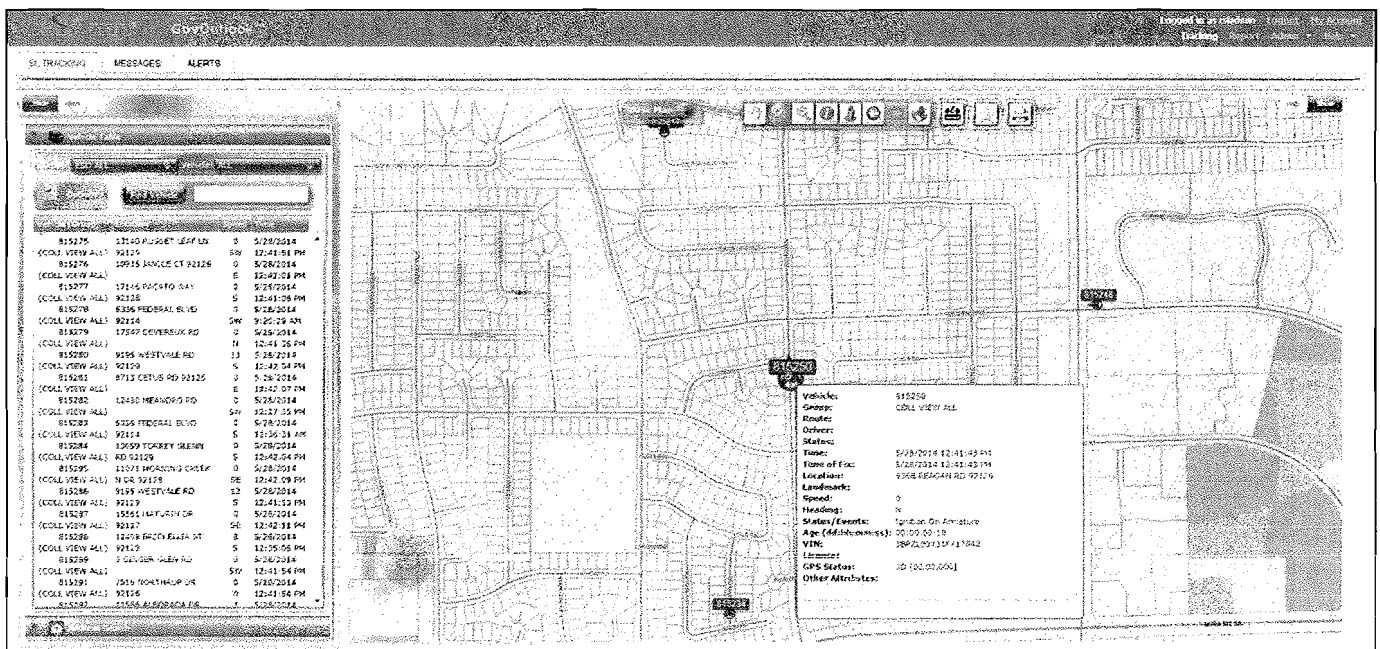


Note: Your user interface will differ depending on customized configuration and preferences.

Real-Time Vehicle Tracking

The CalAmp GovOutlook Application displays the current location and status of the vehicle fleet, along with address, route, and other attribute information, over both raster and vector-based maps (as desired). The use of a powerful Esri ArcGIS Server engine along with the incorporation of vector map data allows for almost endless display and analysis possibilities. A wide variety of customizable functionality is available and is described below.

The vehicle icons may be configured to indicate (using colors, directional symbols, labels, and size) various vehicle attributes (such as ID, status, speed, heading, etc.). All of the vehicle attribute data may be instantly queried and displayed in a pop-up box using a standard identify tool. Further, alarm and event notification may be set to notify the user of a status change for a particular vehicle.



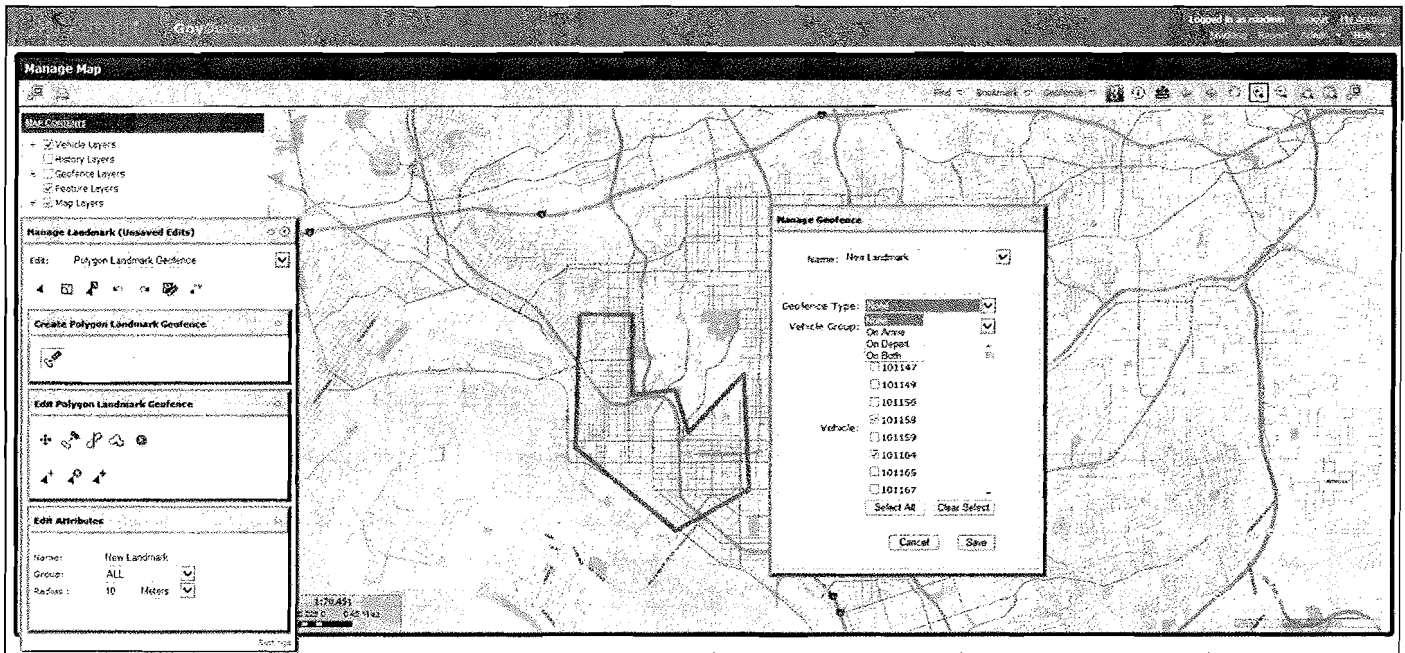
Clicking on a vehicle from the menu bar list will reveal more options for that specific vehicle.

Map Viewing Features

The CalAmp GovOutlook Application displays the vehicle data in a “map window.” The map window can be set to display a particular area, route, stop, or address, or to track a specific sub-set of the entire fleet (from the entire fleet to an individual vehicle). In CalAmp GovOutlook the map display window possesses a full-set of map manipulation and query functionality. Map manipulation tools and buttons are available to zoom, pan, and center the display on a particular vehicle, route, stop, or address. Additional tools are available to enable or disable labeling, to customize the map display according to user preferences, and to enter points and attributes (for incidents, etc.). Map query options include the ability to locate an address, vehicle, or stop, along with the capability to identify the closest available vehicle(s) to any entered point, address, or incident.

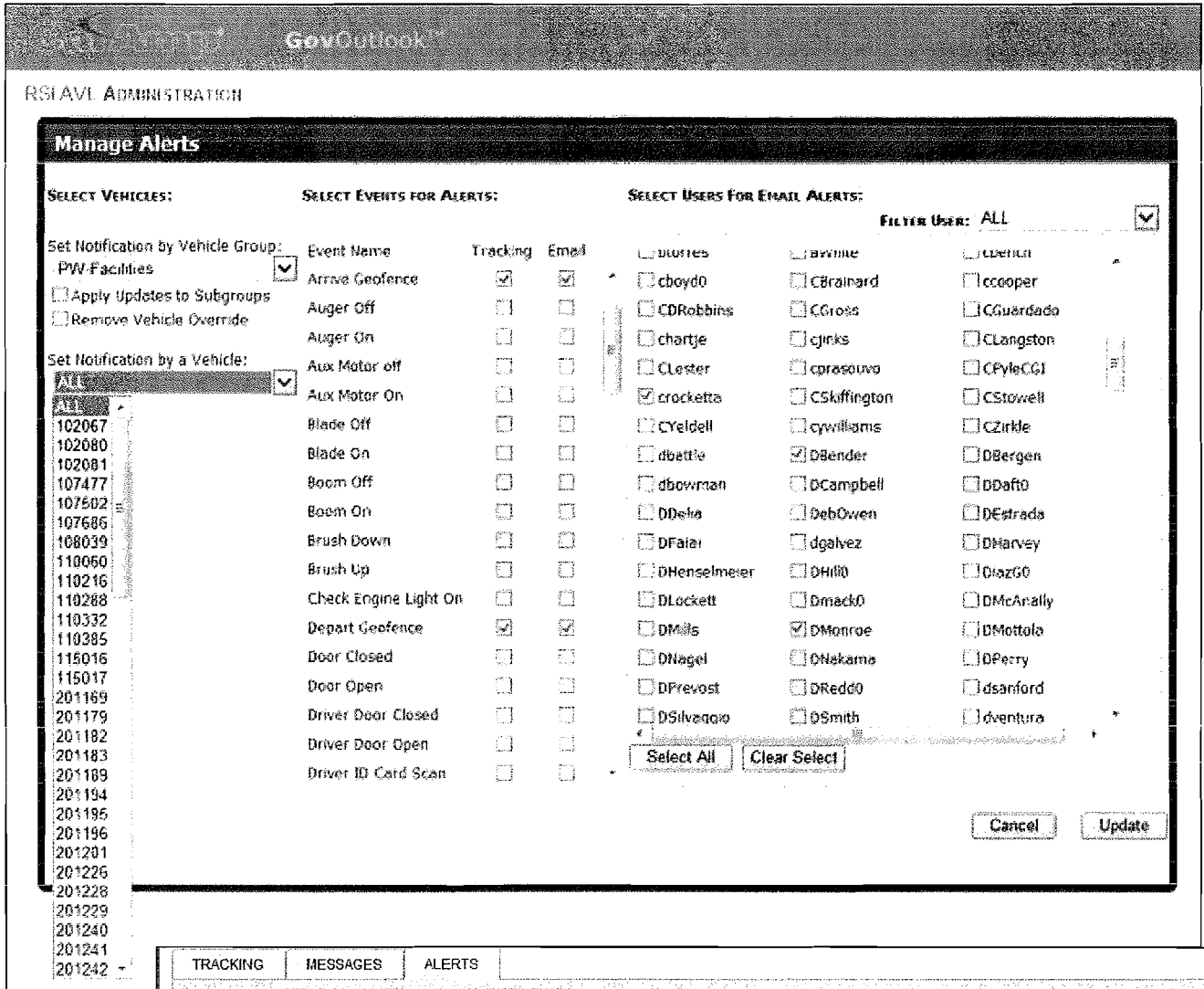
Geo-Borders

The CalAmp GovOutlook system allows the user to set geo-fences on the map display. This geo-borders will create an alert and/or exception report when breached and will appear as another item of status data with each vehicle position report. Geo-borders can be created as polygons or a configurable radius from a specific point, as well as created from existing boundaries, landmarks or zones within your GIS.



Real-Time Alerts

The CalAmp GovOutlook system allows authorized administrators extensive control over system features including alerts and alarms. The system can be configured to notify selected users when specific events occur with any of the vehicles. This includes geo-borders, hours of operation, idle, panic buttons, etc. Notifications can be sent as an e-mail, SMS, or to the alert screen on the software.



TRACKING	MESSAGES	ALERTS	
Filter by Group:	ALL	Vehicle:	ALL
VEHICLE	ALERT TEXT	DATE	
20333 ▲ 0644030 (WasteWater)	Depart Geofence Line Maintenance	2/1/2011 5:17:16 PM	
20332 ▲ 0644030 (WasteWater)	Arrive Geofence Line Maintenance	2/1/2011 5:02:59 PM	
20330 ▲ 0244202 (WasteWater)	Arrive Geofence Line Maintenance	2/1/2011 1:23:48 PM	
20321 ▲ 0933275 (Water)	Arrive Geofence Line Maintenance	2/1/2011 1:23:23 PM	
20329 ▲ 0831445 (Bulky)	Depart Geofence Solid Waste Management	1/21/2011 6:50:30 AM	

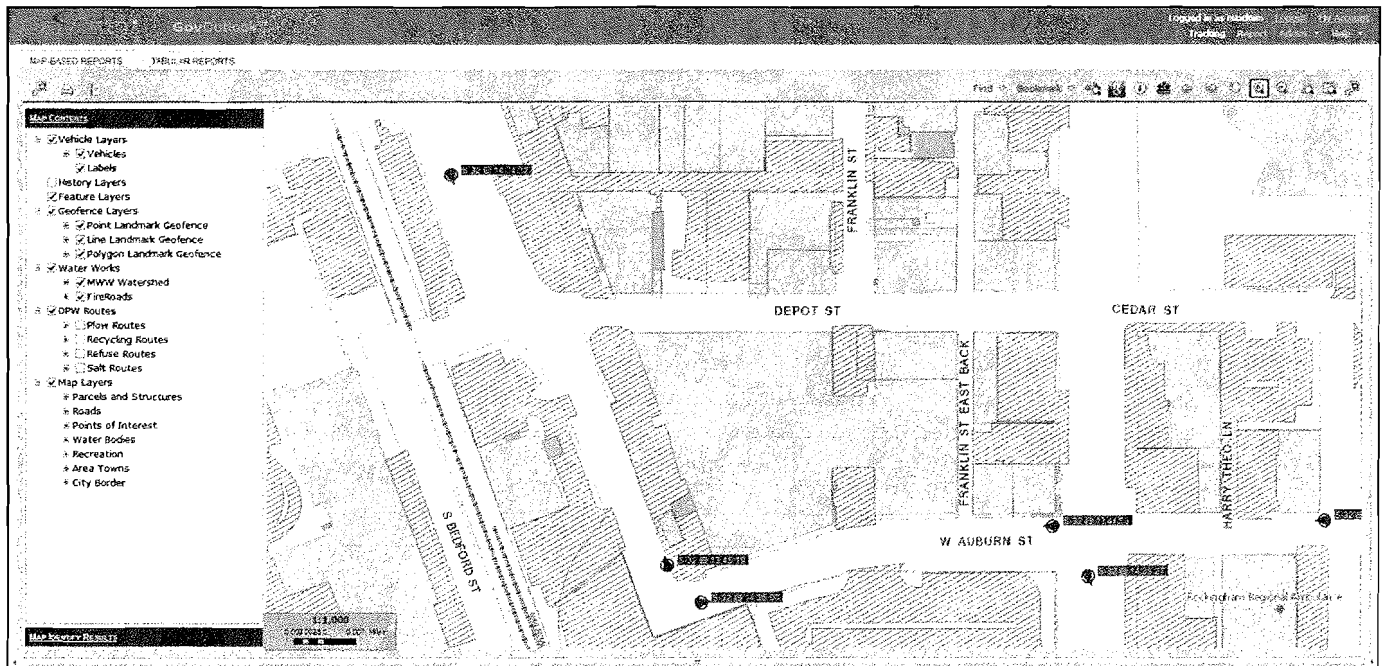
Esri

The CalAmp GovOutlook Mapping application is based on mapping and GIS engines from Esri, the largest GIS software vendor in the world, and a pioneer of the technology. Their systems are in use throughout the world by utilities, governments, and large companies, in thousands of applications, which rely on analysis of spatially referenced data. CalAmp GovOutlook was the first system in the world to implement a real-time GPS interface into ArcView. The CalAmp GovOutlook application is based on the actual Esri ArcGIS Server software, but no licenses are needed by the customer.



Using YOUR Map Data

The CalAmp GovOutlook system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own Esri GIS maps. CalAmp allows you to utilize your existing investment of time and labor that went into your Esri map data. The CalAmp GovOutlook system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. CalAmp has extensive experience working with Esri data and environments in all forms (.shp files, SDE, etc.). As an option, CalAmp can actually access your GIS map data in real time via Map Services.



Leveraging GIS Technology

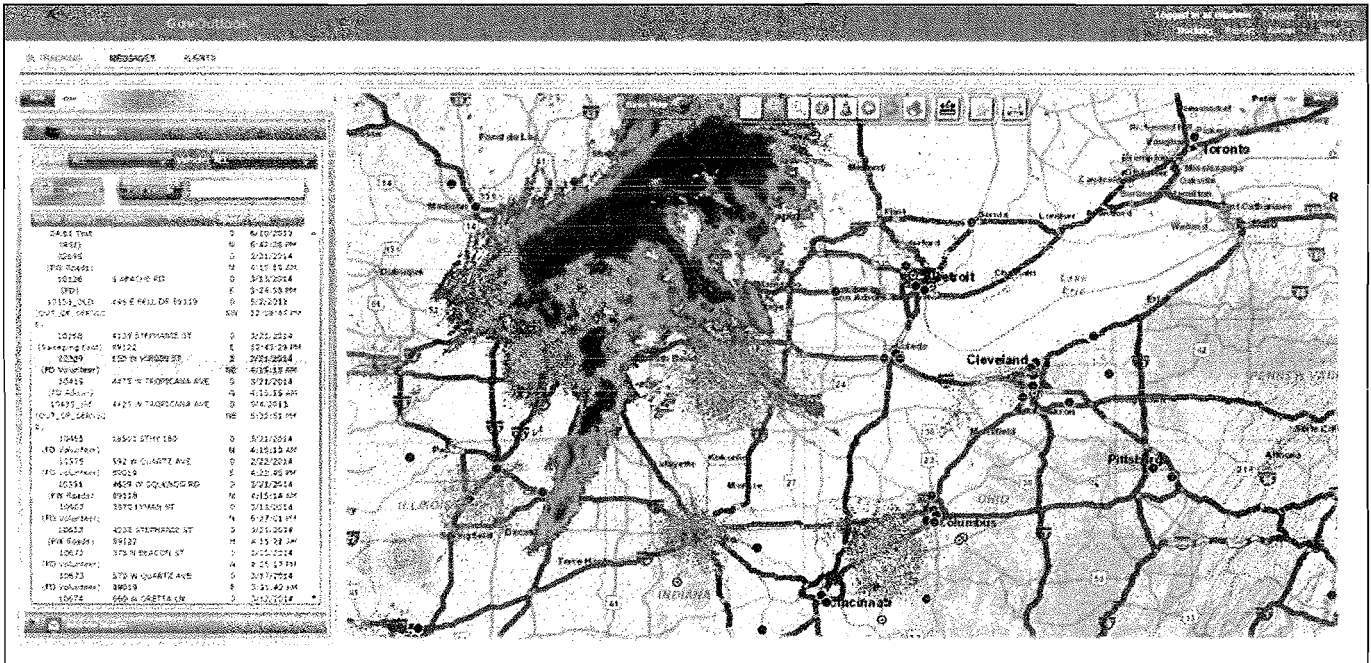
Because CalAmp uses a powerful Esri GIS as the basis for both display and analysis, operations has the capability to perform complex “spatial query” analysis that capitalizes on the geographic referencing or correlation of the GPS location and velocity data collected with the base map. Our use of vectorized maps allows the user to analyze space and time components in entirety. Query capabilities are virtually unlimited. For example, GovOutlook includes a unique algorithm developed by CalAmp, which selects and recommends a vehicle for dispatch based on real-time location.

All of the real-time tracking functionality is available through the menus, buttons, and tools of the graphical user interface (which is easily customized to accommodate specific desires and requirements).

External Data Overlays

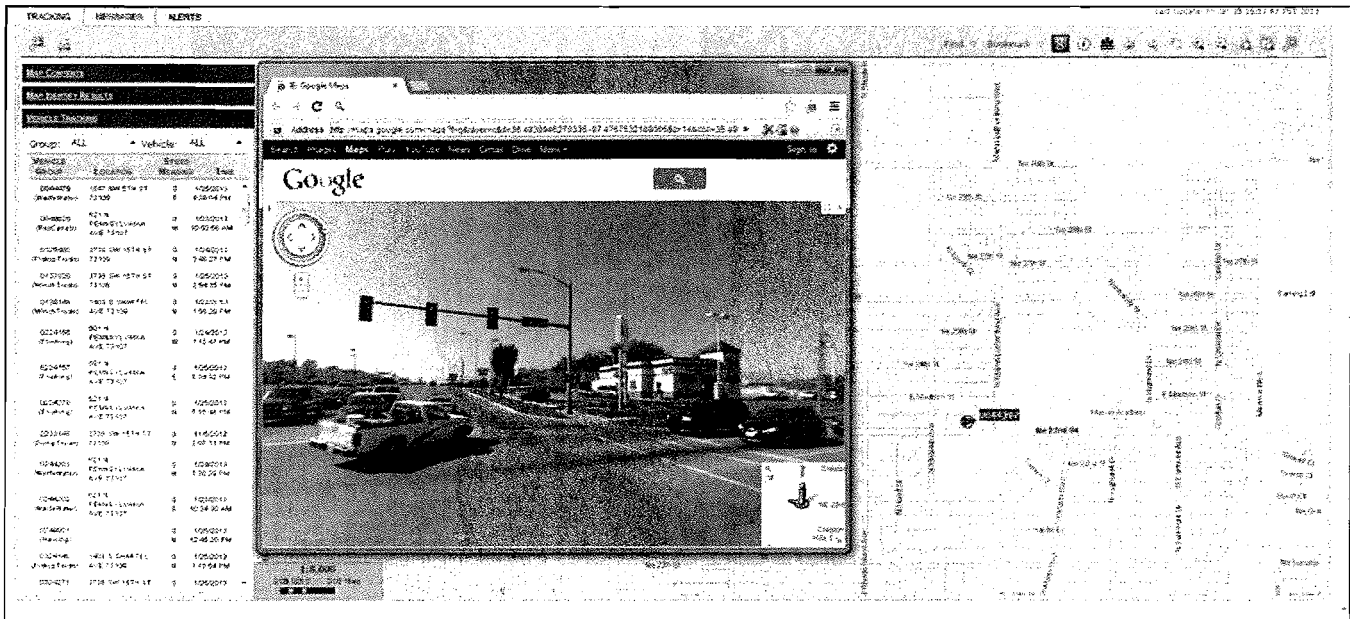
Because of our powerful universally used Esri GIS mapping engine, we can display external data from other map data sources as an option. Data can come from your own GIS sources or external sources and used as a layer in our AVL mapping. **Some examples of these optional sources/feeds are:**

- Real-Time Weather
- Real-Time Traffic
- Real-Time Radar



Google Maps Street View Tool

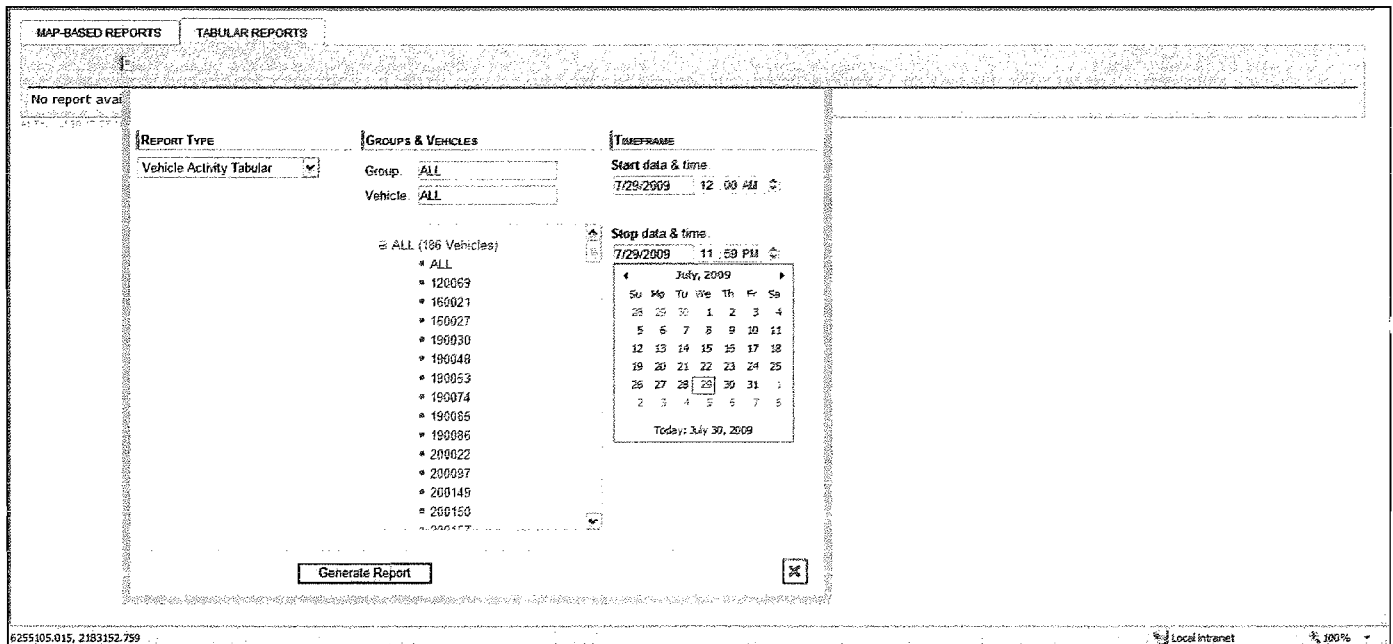
The CalAmp GovOutlook system has a feature that leverages the highly useful Google Maps Street View tool from the CalAmp GovOutlook system interface. This CalAmp Google Street View Tool allows the user to click anywhere on the GIS map data within the CalAmp GovOutlook Map window, and CalAmp GovOutlook will hyperlink that location to a new pop-up window showing the Google Maps Street View of that exact location. This function allows the CalAmp GovOutlook user to see the typical real world surroundings of a specific place from their GIS. The Google Maps Street View shows images of the area recently captured (not real-time) by Google's mobile cameras. It allows the users to see things like buildings, road signs, lanes, businesses and other permanent structures that exist at that location that their GIS data does not have.



Reporting Functions

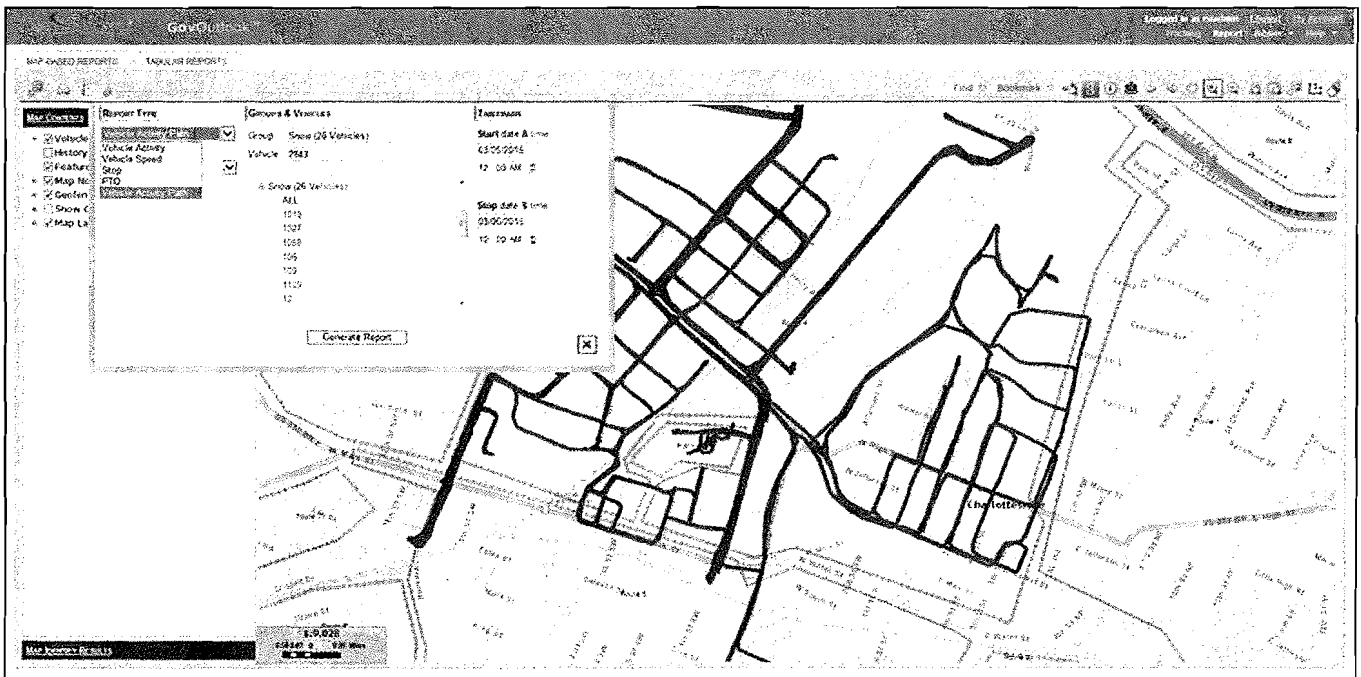
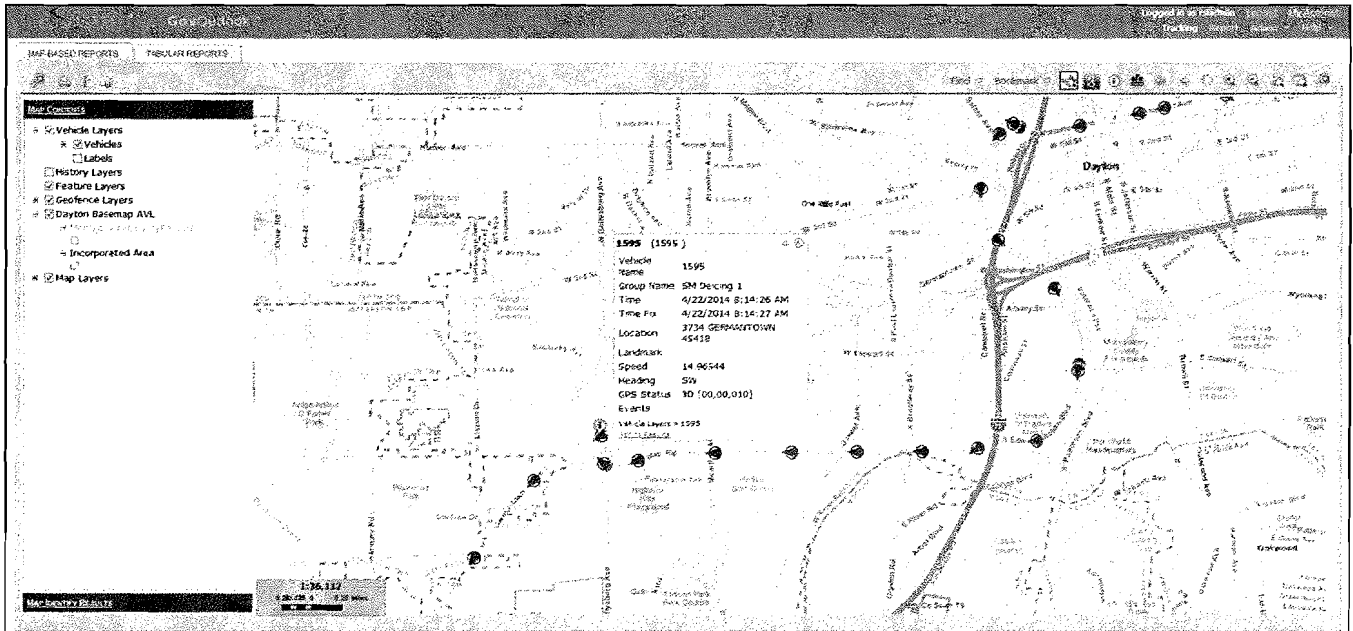
The Report Generation component is an extension to the real-time component of CalAmp GovOutlook described above, and can generate both tabular and graphical map-based reports based on archived vehicle location and status data. Reports may be produced for selected vehicles (or groups of vehicles) according to time, location, and status criteria. The **Map-based report** displays allow users to visually display or re-trace a vehicle's route and status, and include the same map manipulation and query functionality as the real-time vehicle tracking displays. **Tabular reports** display unit location and activity in a text-based spreadsheet or table. Such reports may be exported into virtually any format including .CSV and MS Excel files.

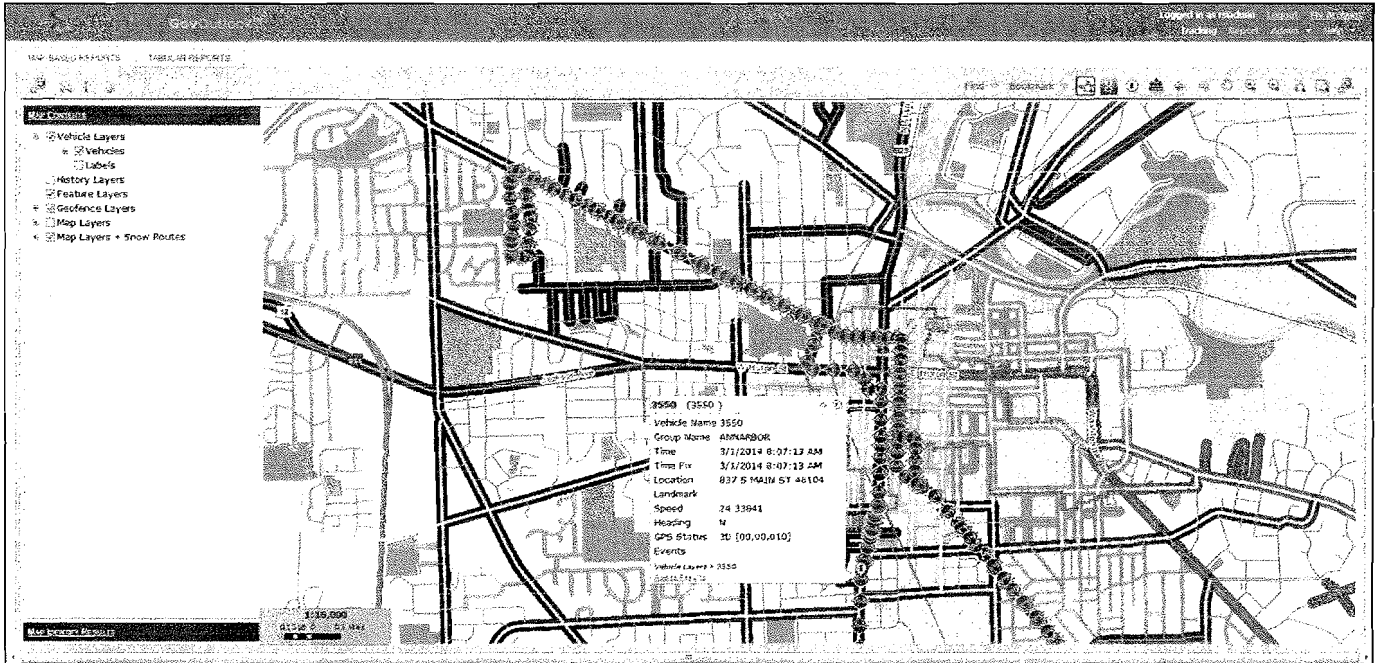
Specific types of reports will be customized to the customers' guidelines as part of initial system design review.



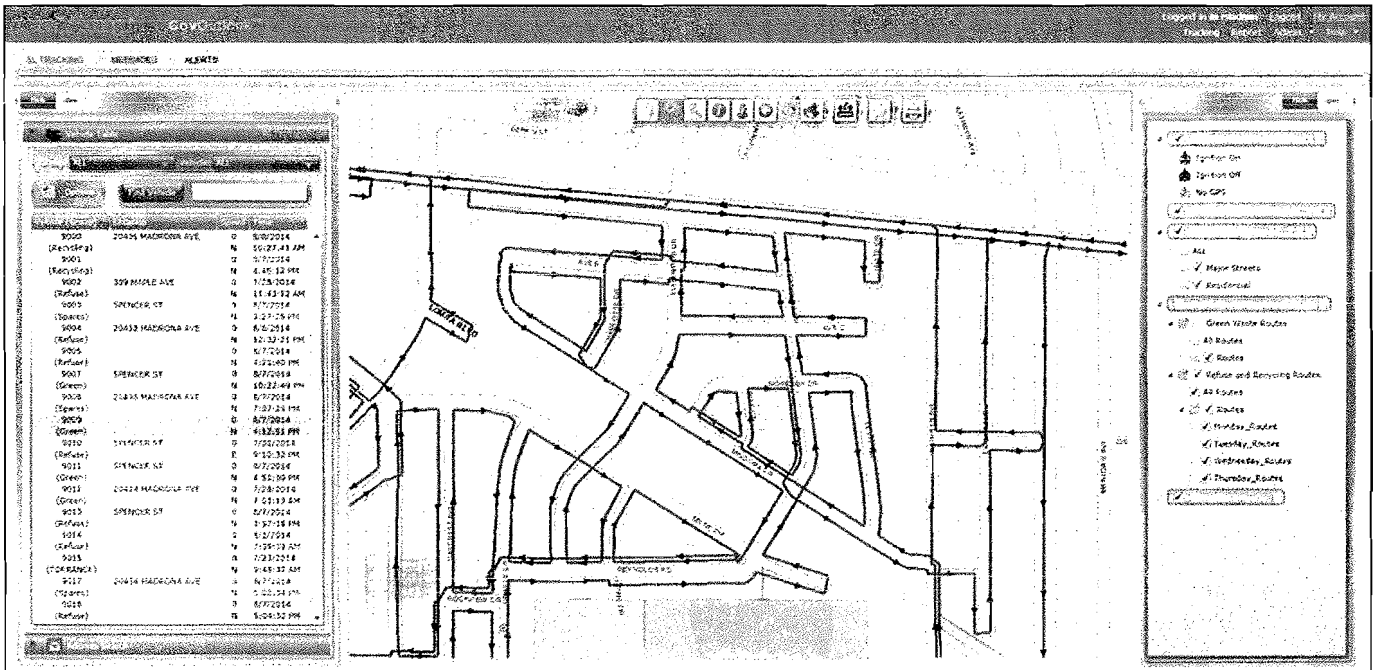
Breadcrumb Replay Feature

The CalAmp GovOutlook system allows you to watch a historical “replay” of any portion of a vehicle’s activity history at various speeds. Controls let you play, pause, rewind, and fast forward the replay allowing you to watch the vehicles’ movement and behavior including location, device activities, alerts, status changes, events, etc. Each breadcrumb icon represents a vehicle position and all its underlying data including address, direction, speed, and status. Breadcrumb icons can be customized to represent various statuses and events, such as ignition off/on, or a device is activated (broom, plow, armature, PTO, etc.)





Third Party Snow Plow Route Overlays



Third Party Turn by Turn Route Overlay

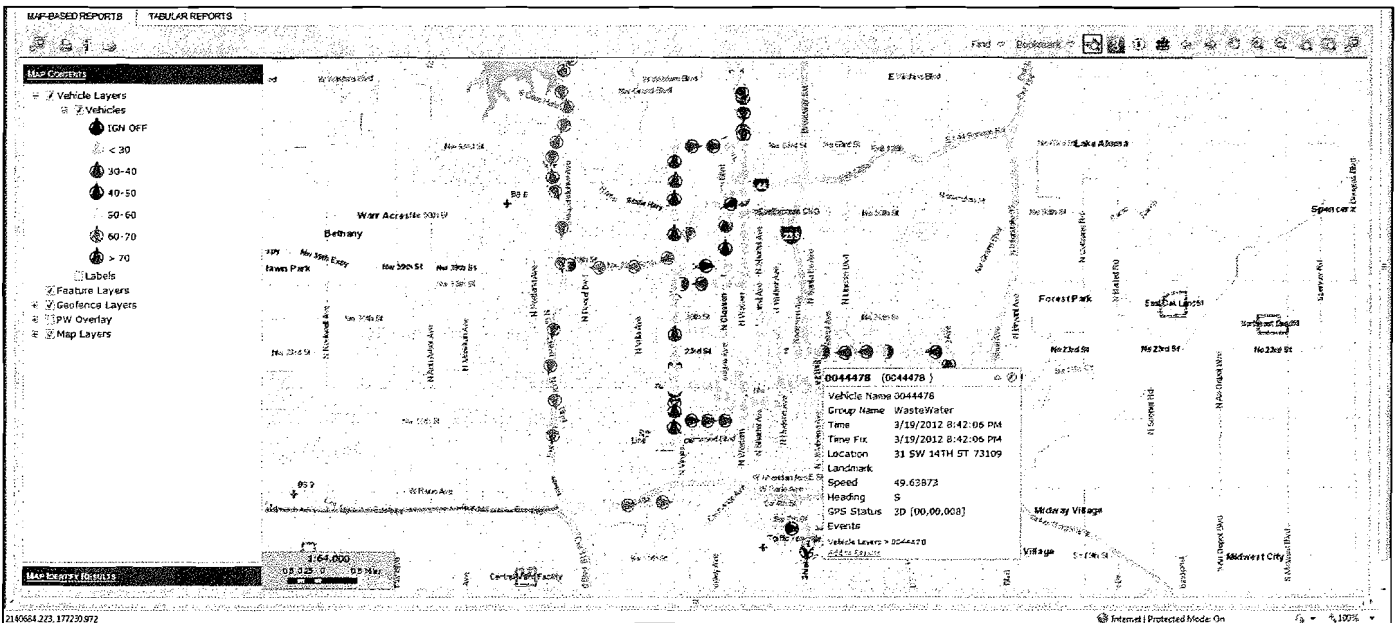
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Reports

The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that cover all the main vehicle activities that one would expect from an industry leading AVL system. We have spent years working with hundreds of fleet customers to refine our report offerings to encompass the most useful and important reports. Some of the data in our standard reports are:

- Vehicle Activity
- Travel & Stop
- Speed
- Harsh braking/acceleration
- Geo-borders
- Vehicle Usage (Mileage, Idle Time & Engine Hours)
- Vehicle Inactivity
- Sensor Reports (armatures, PTO, broom, plows, etc.)
- Diagnostic Trouble Codes (if equipped)



Color Coded Speed Report

Custom Reports

CalAmp will work with the customer to supply a number of customized reports with the system. CalAmp uses industry standard database and reporting tools (Crystal Reports) so the customer can generate their own customized reports if desired.



Vehicle Activity

Generated on 7/24/2012 7:24 PM MST

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Group: 201030 WEST CONT (44 Vehicles) | Vehicle: 030080 | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Date & Time	Location	Landmark	Speed	Heading	Event Description
201030 WEST CONT					
Vehicle: 030080					
7/23/2012 5:43:43AM	4020 W GLENROSA AVE 85019	GSC	0	N	Ignition ON
7/23/2012 5:44:43AM	4020 W GLENROSA AVE 85019	GSC	0	N	
7/23/2012 5:44:45AM	4020 W GLENROSA AVE 85019	GSC	0	N	
7/23/2012 5:48:52AM	4020 W GLENROSA AVE 85019	GSC	0	N	Armature
7/23/2012 5:58:52AM	4020 W GLENROSA AVE 85019	GSC	5	N	
7/23/2012 5:59:52AM	4205 W GLENROSA AVE 85019		28	W	Depart Geofence
7/23/2012 6:04:52AM	4234 W INDIAN SCHOOL RD 85019		34	E	
7/23/2012 6:05:52AM	3600 W INDIAN SCHOOL RD 85019		49	E	
7/23/2012 6:06:52AM	4102 N 30TH AVE 85017		49	E	
7/23/2012 6:08:52AM	0 N/A 85015		34	N	
7/23/2012 6:09:52AM	5009 N 117@CAMELBACK NB UP		66	N	

Overspeed

Generated on 7/24/2012 10:39 PM EST

Page 1 of 1

Group: Building & Code | Vehicle: ALL | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Date & Time	Location	Location	Description	Speed	Over Limit
Building					
Vehicle: 1545					
7/23/2012 9:31:20AM	1601 ALTON CT 33139		Overspeed	26	21
Vehicle: 2689					
7/23/2012 10:58:47AM	1601 LENOX CT 33139		Overspeed	16	11
Vehicle: 2692					
7/23/2012 6:59:34AM	STHY 112 E 33142		Overspeed	73	18
7/23/2012 7:00:34AM	STHY 112 E 33142		Overspeed	68	13
7/23/2012 7:07:34AM	1369 I 195 RAMPOFEB 33140	Central Zone	Overspeed	47	17
7/23/2012 4:26:20PM	STHY 112 W 33142		Overspeed	71	16
7/23/2012 4:45:37PM	RAMP 33012		Overspeed	43	23
7/23/2012 4:50:48PM	6945 W 24TH AVE 33016		Overspeed	36	11
Vehicle: 4174					
7/23/2012 2:33:19PM	3674 PINE TREE DR 33140	Central Zone	Overspeed	44	14
7/23/2012 2:38:43PM	1055 W 47TH CT 33140	Central Zone	Overspeed	24	19
Vehicle: 4180					
7/23/2012 11:37:55AM	1692 71ST ST 33141		Overspeed	46	16
Code Compliance					
Vehicle: 1549					
7/23/2012 7:08:07AM	1672 MERIDIAN CT 33139		Overspeed	20	15
7/23/2012 9:28:24AM	1287 COLLINS CT 33139		Overspeed	15	10
Vehicle: 1582					
7/23/2012 12:59:16AM	6301 INDIAN CREEK DR 33141	North Zone	Overspeed	43	13
Vehicle: 4196					
7/23/2012 12:47:09PM	1186 LINCOLN CT 33139		Overspeed	21	16
7/23/2012 7:56:00PM	4925 PINE TREE DR 33140	Central Zone	Overspeed	41	11
Vehicle: 4197					
7/23/2012 7:26:15PM	1707 LENOX CT 33139		Overspeed	15	10

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Vehicle Usage

Generated on 7/24/2012 9:36 PM CST

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Group: CrewTrucks | Vehicle: ALL | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Vehicle Name	Miles Traveled	Engine Time (HH:MM:SS)	Idle Time (HH:MM:SS)
CrewTrucks			
0928046	83.7	9:08:00	2:46:00
1125022	61.2	7:37:00	3:01:00
1125024	108.7	12:21:00	6:21:00
1130010	58.6	13:07:00	7:13:00
1130029	28.3	8:59:00	5:25:00
1132023			
1231026			

Vehicle Usage Detailed

Generated on 6/25/2014 5:11 PM EST

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Group: SM Pickups | Vehicle: ALL | Timeframe: Mon 6/16/2014 12:00 AM - Sat 6/21/2014 12:00 AM

Date	Miles Traveled	Engine Time (HH:MM:SS)	Idle Time (HH:MM:SS)
SM Pickups			
Vehicle: 1344			
6/16/2014 12:00:00AM	13.7	2:21:00	1:20:48
6/17/2014 12:00:00AM	13.2	1:33:08	0:35:29
6/18/2014 12:00:00AM	15.4	2:35:50	1:33:03
6/19/2014 12:00:00AM	24.5	2:27:55	0:52:15
6/20/2014 12:00:00AM	44.7	3:22:19	0:59:22
Vehicle: 1675			
6/16/2014 12:00:00AM	5.1	0:21:52	0:05:03
6/17/2014 12:00:00AM	0.0		
6/18/2014 12:00:00AM	0.0	0:01:02	0:01:02
6/19/2014 12:00:00AM	0.0		
6/20/2014 12:00:00AM	0.1	0:09:39	0:06:59
Vehicle: 1676			
6/16/2014 12:00:00AM	31.7	5:51:43	3:38:42
6/18/2014 12:00:00AM	4.0	0:16:22	0:04:04
6/19/2014 12:00:00AM	259.7	6:29:20	1:19:13
6/20/2014 12:00:00AM	6.9	0:29:23	0:10:21
Vehicle: 1678			
6/16/2014 12:00:00AM	21.6	3:48:08	2:17:01
6/17/2014 12:00:00AM	27.9	4:54:59	3:03:22
6/18/2014 12:00:00AM	36.1	5:42:58	3:14:01
6/19/2014 12:00:00AM	28.5	4:26:41	2:41:03
6/20/2014 12:00:00AM	36.8	3:37:15	1:12:12
Vehicle: 1679			
6/16/2014 12:00:00AM	28.6	2:46:07	1:05:10
6/17/2014 12:00:00AM	28.1	3:08:50	1:15:11
6/18/2014 12:00:00AM	36.4	3:45:43	1:24:08
6/19/2014 12:00:00AM	28.4	2:52:37	1:10:26
6/20/2014 12:00:00AM	27.3	2:53:45	1:09:29
Vehicle: 1680			
6/16/2014 12:00:00AM	27.9	3:01:00	1:17:00
6/17/2014 12:00:00AM	24.1	2:15:21	0:45:04
6/18/2014 12:00:00AM	13.2	1:07:06	0:25:03
6/19/2014 12:00:00AM	35.5	3:18:59	1:15:30
6/20/2014 12:00:00AM	44.0	5:21:19	2:39:56
Vehicle: 1696			
6/16/2014 12:00:00AM	103.4	6:47:07	1:41:34
6/17/2014 12:00:00AM	94.6	10:35:36	4:07:49
6/18/2014 12:00:00AM	75.3	11:08:06	4:25:15
6/19/2014 12:00:00AM	60.4	10:43:47	4:16:11
6/20/2014 12:00:00AM	60.4	7:33:24	2:25:00



Main Report

- ALL
- Animal Control
- Assessor Admin
- Automotive SVCS
- Coroner Off SVC
- Detention Sherif
- Detention-Admin
- DOA Buik Maint
- DOA Faci AEM
- DOA Faci Elect
- DOA Faci HVAC
- DOA Landside
- Fam SVC CPS NFS
- FD
- FD Fire PROTEMS
- FD Mechanic
- FD Volunteer
- JUV JUST ADMIN
- JUV JUST PROB
- Parks Indian Sp
- Parks Sp Faci
- Pingree
- PW Flood
- PW Roads
- PW Traffic 101
- PW Traffic 202
- RPA Faci Sites
- Sweeping East

Diagnostic Report

Generated on 8/25/2014 1:50 PM PST
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Group: ALL | Vehicle: ALL | Timeframe: Mon 8/18/2014 12:00 AM - Tue 8/17/2014 12:00 AM

Date & Time	Alerts	DTC	Description
8/18/2014 7:12:39AM	NONE	3 / 5 / 1	- Current Below Normal Or Open Circuit
8/18/2014 11:43:49AM	NONE	1 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
Vehicle: 12384			
8/18/2014 8:31:03PM	NONE	2 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
8/18/2014 8:31:33PM	NONE	2 / 1 / 1	- Data Valid But Below Normal - Most Severe Level
8/18/2014 8:33:47PM	NONE	2 / 1 / 1	- Data Valid But Below Normal - Most Severe Level
Vehicle: 12386			
8/18/2014 5:18:53AM	NONE	3 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
8/18/2014 2:49:13PM	NONE	22 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
8/18/2014 2:54:28PM	NONE	22 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
Vehicle: 13015			
8/18/2014 7:33:26AM	NONE	1 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
Vehicle: 13016			
8/18/2014 6:45:11AM	NONE	3 / 0 / 0	- Data Valid But Above Normal - Most Severe Level
Vehicle: 13309			
8/18/2014 7:04:07AM	NONE	1 / 5 / 5	- Current Below Normal Or Open Circuit
8/18/2014 7:04:07AM	NONE	1 / 10 / 1	- Abnormal Rate of Change
8/18/2014 10:43:50AM	NONE	1 / 5 / 5	- Current Below Normal Or Open Circuit
8/18/2014 10:43:50AM	NONE	1 / 10 / 1	- Abnormal Rate of Change
Vehicle: 13543			
8/18/2014 7:14:40AM	NONE	221 / 4 / 0	- Voltage Below Normal, Or Shorted to Low Source
8/18/2014 7:14:40AM	NONE	254 / 6 / 0	- Current Above Normal Or Grounded Circuit
8/18/2014 7:14:40AM	NONE	110 / 2 / 0	Engine Coolant Temperature - Data Erratic, Intermittent Incorrect
8/18/2014 7:16:25AM	NONE	110 / 2 / 0	Engine Coolant Temperature - Data Erratic, Intermittent Incorrect
8/18/2014 7:16:25AM	NONE	221 / 4 / 0	- Voltage Below Normal, Or Shorted to Low Source
8/18/2014 7:16:25AM	NONE	254 / 6 / 0	- Current Above Normal Or Grounded Circuit
8/18/2014 7:18:09AM	NONE	221 / 4 / 0	- Voltage Below Normal, Or Shorted to Low Source
8/18/2014 7:18:09AM	NONE	254 / 6 / 0	- Current Above Normal Or Grounded Circuit
8/18/2014 7:18:09AM	NONE	7 / 5 / 0	- Current Below Normal Or Open Circuit
8/18/2014 7:18:09AM	NONE	8 / 5 / 0	- Current Below Normal Or Open Circuit
8/18/2014 7:18:09AM	NONE	110 / 2 / 0	Engine Coolant Temperature - Data Erratic, Intermittent Incorrect



Armature Summary

Generated on 7/24/2012 7:32 PM MST

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Group: 201030 WEST CONT | Vehicle: ALL | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Vehicle Name	Armature Total
201030 WEST CONT	
030055	451
030057	957
030073	815
030080	707
130205	752
130206	833
130213	666
130233	702
330366	897
530444	810
530456	836
730031	1,010
730032	602
730033	2
730036	6
730038	844
830069	625
830070	877
830076	669
930176	511
930185	1,039

Armature

Generated on 7/24/2012 7:31 PM MST

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Group: 201030 WEST CONT (44 Vehicles) | Vehicle: 030080 | Timeframe: Mon 7/23/2012 12:00 AM - Tue 7/24/2012 12:00 AM

Date & Time	Location	Landmark	Event Description	Duration (HH:MM:SS)
201030 WEST CONT				
Vehicle: 030080				
7/23/2012 5:48:52AM	4020 W GLENROSA AVE 85019		Armature	
7/23/2012 6:26:59AM	18652 N 50TH AVE 85308		Armature	
7/23/2012 6:27:28AM	18646 N 50TH AVE 85308		Armature	
7/23/2012 6:28:17AM	18634 N 50TH AVE 85308		Armature	
7/23/2012 6:28:48AM	18628 N 50TH AVE 85308		Armature	
7/23/2012 6:29:32AM	18616 N 50TH AVE 85308		Armature	
7/23/2012 6:29:58AM	18610 N 50TH AVE 85308		Armature	
7/23/2012 6:30:30AM	4931 W MCRAE WAY 85308		Armature	
7/23/2012 6:30:50AM	4926 W MCRAE WAY 85308		Armature	
7/23/2012 6:31:16AM	4919 W MCRAE WAY 85308		Armature	
7/23/2012 6:31:37AM	4907 W MCRAE WAY 85308		Armature	
7/23/2012 6:32:20AM	4819 W MCRAE WAY 85308		Armature	
7/23/2012 6:32:50AM	4807 W MCRAE WAY 85308		Armature	
7/23/2012 6:33:20AM	4801 W MCRAE WAY 85308		Armature	
7/23/2012 6:34:04AM	4787 W MCRAE WAY 85308		Armature	
7/23/2012 6:35:04AM	4776 W MCRAE WAY 85308		Armature	
7/23/2012 6:35:24AM	4770 W MCRAE WAY 85308		Armature	
7/23/2012 6:35:47AM	4763 W MCRAE WAY 85308		Armature	
7/23/2012 6:36:11AM	4745 W MCRAE WAY 85308		Armature	



Travel & Stop

Generated on 6/25/2014 4:59 PM EST

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Group: Public Works (104 Vehicles) | Vehicle: 1711 | Timeframe: Mon 6/23/2014 12:00 AM - Mon 6/23/2014 12:00 PM

Date & Time	Location	Landmark	Event Description	Duration (HH:MM:SS)
SM Pickups				
Vehicle: 1711				
6/23/2014 7:11:06AM		Ottawa Yard	Ignition On	0:19:42
6/23/2014 7:30:48AM		Ottawa Yard	Ignition Off	0:28:50
6/23/2014 7:59:38AM	91 E BURTON MU 45405		Ignition On	0:02:31
6/23/2014 8:02:09AM	93 E BURTON MU 45405		Ignition Off	0:00:12
6/23/2014 8:02:21AM	93 E BURTON MU 45405		Ignition On	0:01:58
6/23/2014 8:04:19AM	93 E BURTON MU 45405		Ignition Off	0:02:26
6/23/2014 8:06:45AM	93 E BURTON MU 45405		Ignition On	0:29:05
6/23/2014 8:17:32AM			Start Moving	0:00:07
6/23/2014 8:17:39AM	96 E BURTON MU 45405		Stop Moving	0:00:15
6/23/2014 8:17:54AM			Start Moving	0:00:50
6/23/2014 8:18:44AM	1268 N MAIN 45405		Stop Moving	0:00:14
6/23/2014 8:18:58AM			Start Moving	0:01:05
6/23/2014 8:20:03AM	802 N MAIN 45405		Stop Moving	0:00:06
6/23/2014 8:20:09AM			Start Moving	0:00:23
6/23/2014 8:20:32AM	175 N 45405		Stop Moving	0:00:20
6/23/2014 8:20:52AM			Start Moving	0:01:52
6/23/2014 8:22:44AM	386 N MAIN 45405		Stop Moving	0:00:46
6/23/2014 8:23:30AM			Start Moving	0:01:30
6/23/2014 8:25:00AM	76 N LUDLOW MU 45402		Stop Moving	0:00:32
6/23/2014 8:25:32AM			Start Moving	0:03:01

Stop

Generated on 6/25/2014 5:01 PM EST

Page 1 of 1

Group: Public Works (104 Vehicles) | Vehicle: 1711 | Timeframe: Mon 6/23/2014 12:00 AM - Mon 6/23/2014 12:00 PM

Location	Landmark	Duration
SM Pickups		
Vehicle: 1711		
6/23/2014 8:17:39AM	96 E BURTON MU 45405	0:00:15
6/23/2014 8:18:44AM	1268 N MAIN 45405	0:00:14
6/23/2014 8:20:03AM	802 N MAIN 45405	0:00:06
6/23/2014 8:20:32AM	175 N 45405	0:00:20
6/23/2014 8:22:44AM	386 N MAIN 45405	0:00:46
6/23/2014 8:25:00AM	76 N LUDLOW MU 45402	0:00:32
6/23/2014 8:28:33AM	US 45408	0:02:47
6/23/2014 8:31:23AM	US 45408	2:11:59
6/23/2014 10:48:42AM	571 S PERRY MU 45402	0:00:05
6/23/2014 10:49:31AM	136 WASHINGTON MU 45402	0:00:05
6/23/2014 10:50:57AM	US 45408	1:09:00



Vehicle Spreader Utilization

Generated On: 8/2/2011 4:09:14PM

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Group Selection: ALL VEHICLES | Start Time: 2011-03-01 00:00:00 Stop Time: 2011-03-31 23:59:59 |

Timefix	Spreader Status	Granular			Direct		Total (gal)
		Spread Rate Index	Material Setting (lbs/mi)	Material Total (lbs)	Spread Rate Index	Setting (gal/mi)	
FLOW							
Vehicle ID: 42356							
03/29/11 08:34:07	P	0	0	0	0	0	72657
03/29/11 08:34:08	O	0	0	0	0	0	72657
03/29/11 08:34:42	S	0	0	0	9	100	72657
03/29/11 08:34:55	S	0	0	0	6	60	72660
03/29/11 08:34:55	S	0	0	0	6	60	72660
03/29/11 08:34:55	S	0	0	0	6	60	72660
03/29/11 08:34:56	S	0	0	0	0	140	72661
03/29/11 08:35:12	S	0	0	0	0	140	72662
03/29/11 08:36:01	O	0	0	0	0	0	72691
03/29/11 08:36:08	S	0	0	0	0	140	72691
03/29/11 08:37:09	S	0	0	0	9	100	72762
03/29/11 08:37:19	S	0	0	0	0	140	72770
03/29/11 08:39:12	O	0	0	0	0	0	72902
03/29/11 08:40:29	S	0	0	0	0	140	72902
03/29/11 08:43:10	O	0	0	0	0	0	73089
03/29/11 08:43:10	O	0	0	0	0	0	73089
03/29/11 08:44:50	S	0	0	0	8	80	73094
03/29/11 08:44:51	S	0	0	0	7	70	73094
03/29/11 08:44:52	S	0	0	0	8	80	73095
03/29/11 08:44:52	S	0	0	0	9	100	73096
03/29/11 08:49:05	O	0	0	0	0	0	73307
03/29/11 08:54:28	S	0	0	0	9	100	73307
03/29/11 08:57:59	B	0	0	0	0	100	73307
03/29/11 08:58:04	S	0	0	0	9	100	73310

Implementation Time Line

CalAmp will determine an appropriate implementation schedule for each specific project and customer. Here is a typical schedule to implement the system as outlined below. Some key milestones follow. (This is an example subject to change. A detailed and accurate project work plan cannot feasibly be created without meeting with the customer to determine specific configurations, preferences, processes, priorities, resources, etc.)

AVL System System Implementation Schedule							
ID	%	Task Name	Start	Finish	Duration	Predecessor	Resource Names
1	0%	AVL Project Completion	Tue 5/1/12	Thu 8/23/12	83 days		
2	0%	Receipt of Order	Tue 5/1/12	Tue 5/1/12	1 day		Customer
3	0%	Design Review	Wed 5/2/12	Tue 5/22/12	15 days	2	
4	0%	Develop Design Review	Wed 5/2/12	Tue 5/15/12	10 days		RSI/Customer
5	0%	Submit Design Review	Wed 5/16/12	Tue 5/22/12	5 days	4	RSI
6	0%	Design Review Acceptance	Tue 5/22/12	Tue 5/22/12	0 days	5	Customer Project Team
7	0%	Base Station System Install/Config	Wed 5/2/12	Tue 5/22/12	15 days		
8	0%	GIS Map Data	Wed 5/2/12	Tue 5/8/12	5 days		Customer GIS Department
9	0%	Server Software Installation	Wed 5/9/12	Tue 5/22/12	10 days	8	RSI
10	0%	Base Station System Completed	Tue 5/22/12	Tue 5/22/12	0 days	9	RSI
11	0%	Shipping Phase	Wed 5/2/12	Mon 6/18/12	34 days		
12	0%	System Delivery	Wed 5/2/12	Mon 6/18/12	34 days		
13	0%	Mobile Unit Build Procurement	Wed 5/2/12	Mon 6/11/12	29 days		
14	0%	Mobile Units	Wed 5/2/12	Mon 6/4/12	24 days	2	RSI
15	0%	Testing	Tue 6/5/12	Mon 6/11/12	5 days		
16	0%	Mobile Units	Tue 6/5/12	Mon 6/11/12	5 days	14	RSI
17	0%	Shipping	Tue 6/12/12	Mon 6/18/12	5 days		
18	0%	Mobile Units	Tue 6/12/12	Mon 6/18/12	5 days	16	RSI
19	0%	50% System Payment Milestone	Mon 6/18/12	Mon 6/18/12	0 days	18	Customer
20	0%	System Completion	Tue 6/19/12	Mon 7/9/12	15 days		
21	0%	Training (Installation)	Tue 6/19/12	Thu 6/21/12	3 days	17	RSI
22	0%	Configuration	Fri 6/22/12	Thu 6/28/12	5 days	21	
23	0%	Complete ATP	Fri 6/29/12	Mon 7/9/12	7 days	21,22	
24	0%	25% Payment Milestone	Mon 7/9/12	Mon 7/9/12	0 days	23	Customer
25	0%	User Training	Tue 7/10/12	Mon 7/23/12	10 days		
26	0%	Develop User Training Plan	Tue 7/10/12	Mon 7/16/12	5 days	23	RSI PM
27	0%	Complete User Training	Tue 7/17/12	Mon 7/23/12	5 days	26	RSI PM / Customer Users
28	0%	25% Payment Milestone	Mon 7/23/12	Mon 7/23/12	0 days	25	Customer
29							
30	0%	Mobile Unit Installation	Fri 6/22/12	Thu 8/23/12	45 days	21	Customer Installation Team

Project Management

The CalAmp project manager will serve as the liaison for CalAmp during the implementation process and through the duration of the system. The project manager will serve as the point of contact for all technical and support issues.

Implementation

The Project Manager will schedule periodic calls/meetings to monitor the initial implementation and installation process. Communication is key in our implementations so we will be using a variety of methods including e-mail and telephone, as well as in person meetings when appropriate. Scheduling and planning will utilize industry standard project management tools such as Microsoft Project and other related systems.

Project Initiation

Introductions
Kick Off Meeting

Project Planning

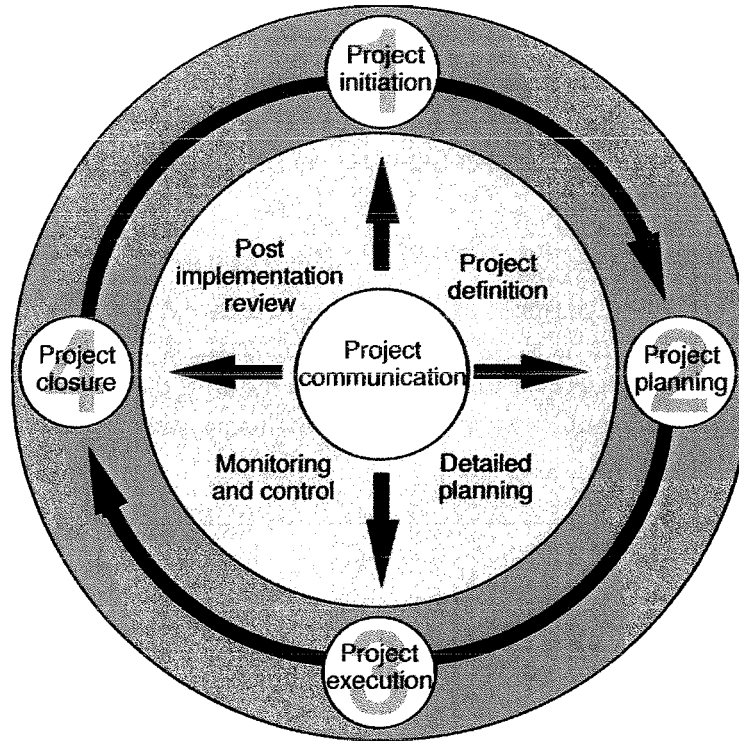
Design Review
Define Roles and Responsibilities
Expectations

Project Execution

Scheduled Communication
Status Updates
Resolving Issues
Developing Options
Following Up

Project Closure

Acceptance Testing
Final Review



Project Manager

Brian Burda, Sr. Director

Education: B.S. Computer Science, University of Southern California

Experience:

Consultant, Process Control and Software Development, Clients include H.J. Heinz, United Airlines, ORE-IDA Foods, Weight Watchers, and the Marriott Hotel Corporation

*Brian has 22 years of experience implementing AVL and tracking systems using GPS.

Brian will serve as the lead project manager for the AVL implementation. Brian has extensive experience implementing AVL systems and will oversee the development of the Scope of Work and Implementation Work Plan.

Key CalAmp Personnel

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Lead Software and Hardware Integration Manager

Mark Holzworth, Director of Software Engineering

Education: B.S. Electrical Engineering, University of California at Santa Barbara

Experience:

Software engineer, Professional Products, Magellan Systems Corporation

*Mark has over 20 years of experience in developing software to interface GPS and GIS, and embedded network communications control systems for AVL.

Mark will oversee all integration efforts for this system. Mark has extensive experience interfacing various back end applications with the CalAmp GovOutlook system.

Executive Contact

Jonathan Michels, VP of Government Business

Education: B.S. Economics, Wharton School of the University of Pennsylvania

M.B.A., AGSM, University California at Los Angeles

Experience:

Director, Professional Products Division, Magellan Systems Corporation (GPS Manufacturer)

Vice President, Cellularm, radio frequency data network operator

GIS Analyst, Toyota Motor Sales, USA

*Jon has over 25 years of experience in GIS, 24 years in RF communications and data, and 23 years in GPS technology.

Jon will serve as the main point of contact for all contractual and administrative matters for this system.

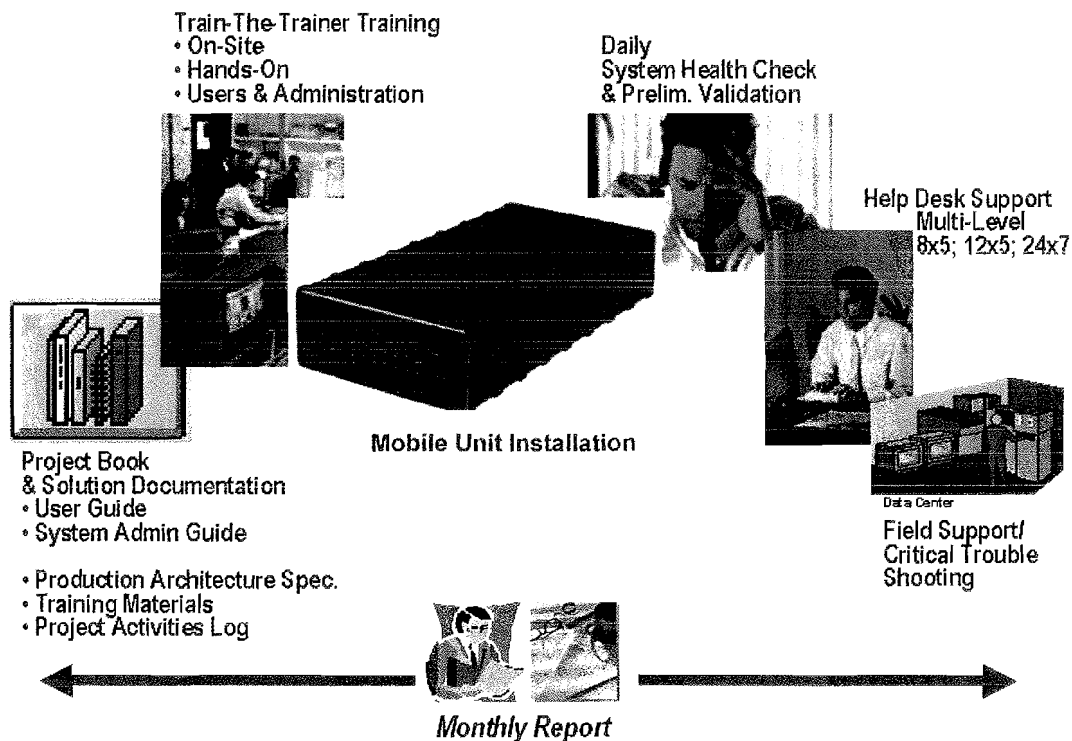
Training

CalAmp Training Methodology

CalAmp will provide live training sessions on the entire AVL system sufficient to ensure complete understanding and operations proficiency by the desired client staff and administrative personnel. The client will receive training to be provided to the entire staff exposed to the system, with an intensive “train-the-trainer” approach for selected personnel in order to maximize long-term worker productivity. The training sessions shall be held at locations specified by the client for administrative, driver, dispatch, executive, maintenance, and all other relevant parties. All materials and manuals will be provided in both printed and electronic format.

Training Program Overview

CalAmp and the other team members will work with the customer’s team to define the required courses and a reasonable number of attendees/course duration during the implementation phase of the project.



Training Program

The CalAmp GovOutlook Training Program is designed to indoctrinate all employees in the use of the CalAmp GovOutlook System.

All training will be specific, where appropriate, to the CalAmp GovOutlook system, and will include practical user instruction, hands-on sessions using CalAmp GovOutlook specific equipment and data, and vendor observation of live operations following system startup. The training sessions will be presented over the course of the project, and will enable customer personnel to assume the responsibility of the system upon Substantial Completion.

In concert with the customer Project Manager, CalAmp will develop and conduct a one-time operational overview of the entire CalAmp GovOutlook operating system, which will provide Management with a practical, working knowledge of the CalAmp GovOutlook system and its operational, customer, and functional capabilities.

The development of the Training and Orientation Program and the scheduling of the actual training sessions will take into consideration customer staff availability due to shift assignments and logistics. CalAmp GovOutlook will coordinate with the customer Project Manager to ensure that personnel are available when the Training Programs are to be conducted. Furthermore, it is assumed that all attendees will be familiar with the basic concepts of the Windows Operating System, knowledge that is essential in order to be able to take full advantage of the courses offered. A workable understanding of Windows will be a pre-requisite for all attendees.

Advanced Training

During the installation and testing process there will be a need for certain customer personnel (drivers, dispatchers and supervisors) to become familiar with some of the fundamental aspects of the system so they can participate in the testing process and in the evaluation of the software and system's performance. For this reason, a number of courses will be provided in advance of the Regular Training program. The content of the courses will focus on familiarizing select customer staff with the basic functionality and operational features of the system, together with 'hands-on' training in the use of the hardware to the extent necessary to support the initial Testing. CalAmp will provide Advance Training as necessary to support initial testing and integration.

The customer's Project Manager will designate the specific individuals who will participate in this training when CalAmp indicates it is time to begin the Advance Training Course.

CalAmp will supply the specified manuals and documentation in both hard and soft copy.

Instruction Manuals

User/Operating Procedure manuals, specific to the CalAmp GovOutlook System, will be provided to each trainee. The User/Operating Procedure manuals will consist of the generic capabilities for each component as well as all the necessary amendments that describe customer's specific modifications and enhancements. Course Training Manuals, for each functional or technological area of training, will be provided to the customer Project Manager, along with master copies of all training and orientation documents in order to facilitate duplication of materials for future training purposes. Vendor equipment manuals relating to the specific software and hardware utilized in the project will also be delivered to the customer's Project Manager. (Note: Any duplication of materials is for internal use on the CalAmp GovOutlook Project and may NOT be distributed to outside sources without the written approval of the vendor.)

All such printed training/orientation materials will be:

- Approved by the customer Project Manager prior to their use or distribution
- Customized and specific to the CalAmp GovOutlook Project and the products used therein and the systems operating therein.
- Complete and current as of the date of Substantial Completion of the CalAmp GovOutlook Project.
- Easily understandable, detailed and focused to the inherent knowledge levels of each of the below-described staff categories based on their individual 'need to know'.
- Updated, as necessary, consistent with any maintenance and support agreements to this Project.

Personnel To Be Trained

There will be several levels of staffing associated with the CalAmp GovOutlook operation; therefore, the training and orientation program will focus on both the required ('need to know') and inherent technical expertise of each of the employee groups or individuals, as follows:

Drivers

Anticipated staff (final count TBD)

An in depth orientation in the AVL System function, usage, and dispatching requirements at the vehicle level.

A basic orientation in AVL System functionality and trouble shooting (when to ask for help).

A practical orientation in System capabilities as they relate to overall operations and customer services.

Dispatchers

Anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and dispatch center levels.

An in-depth orientation in data entry and retrieval, report design, generation and production.

Supervisors

An anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center level.

The ability to train new drivers, dispatchers and supervisors in the use of and overall understanding of system functionality as it relates to all components and features of the CalAmp GovOutlook technology.

Operator Management

An anticipated staff (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center levels.

An orientation in systems management, the interoperability of the overall CalAmp GovOutlook system capabilities, customer service features and potential report development and generation.

Maintenance monitoring requirements of the equipment and software and system repair and service procedures.

Client Management

An anticipated staff (final count TBD), including the Director, Information Systems Manager and administrative staff. (final count TBD)

An in-depth orientation in the usage and a practical orientation in the features relating to operations and customer services of all AVL equipment at the vehicle and Dispatch Center levels.

A basic orientation in function trouble shooting (when to ask for help) at both the vehicle and Dispatch Center levels.

An orientation in systems management, the interoperability of the overall CalAmp GovOutlook system capabilities, customer service features and potential report development and generation.

Maintenance monitoring requirements of the equipment and software and system repair and service procedures.

Note: The Information Systems Manager will be trained to a significantly higher technical level. This individual will perform technical maintenance, hardware repair/replacement, troubleshoot problems, investigate communication system problems (LAN, WAN, etc.) and deal with all technical problems and upgrades in cooperation with CalAmp.

Test and Implementation Plan

The major purpose of the Implementation Plan is to define a process for deploying the technical elements of the CalAmp GovOutlook Project, and then schedule the integration of these elements into each agency's operating system. This transition not only calls for a partial re-deployment and enhancement of the current rolling stock, but also for the smooth integration and deployment of the AVL technology that is specified in the Scope of Work. In order to make the transition as smooth as possible and overcome any functional, technical, operational, and communication difficulties as they arise, CalAmp will utilize a phased approach.

At the same time, in order to ensure the final delivery of a system that conforms to the Project requirements, significant emphasis will be placed on the importance of achieving the operational and technological functionality defined in this Scope of Work and other 'Contract Documents'. The Implementation and Test Plan represents the vehicle through which CalAmp shall examine each operating function of the CalAmp GovOutlook system to:

- Verify compliance with the system specifications, level of service standards and operating performance criteria
- Obtain client's acceptance.

CalAmp will be responsible for component specific testing. As integration of the technical components begins, client's Project Manager (& necessary staff) will oversee and coordinate the implementation of the integration testing in order to ensure compliance with the overall project and performance objectives set forth herein. The anticipated dates for conducting the required testing are defined in the Project Work Plan and will be finalized during the Design Review.

Two levels of system testing will be employed during the course of the CalAmp GovOutlook Project, as follows:

Laboratory: individual module testing followed by integration testing to ensure the functionality of the components and the interoperability of the data interfaces between each component prior to deployment.

Acceptance Testing: the final test to ensure that each technical component of the system as well as the total system (technical components and operating services) conforms to system specifications, level of service standards and operating performance criteria.

As each service element comes on-line during the Test, it will remain on-line at the conclusion of the test and be operated in parallel by the Dispatch Center with the other elements that are already operational. The same will hold true for the activated functionalities of the project technologies mentioned above.

Due to the linear approach of the project plan, if any of the elements fail during testing, further elements cannot be deployed until the problem has been resolved.

At the conclusion of each formal testing phase, CalAmp will provide client with written certification of the test results and performance compliance for each of the system components. In the event of testing problems, client, CalAmp and the appropriate agencies will meet and confer on the results of the testing performed. Subsequent decisions to proceed with the project must be approved by all parties. All the participants must attend scheduled meetings through means of conference calls or on-site visitations.

Also, final details of the Laboratory and Acceptance Tests will be confirmed with the Stakeholders before implementation of the testing in order to ensure client service level does not degrade below current service levels during the testing process.

Finally, in addition to the above formal testing procedures, there will be a comprehensive demonstration of the operating system to client. This demonstration (Acceptance Test) is necessary in order to satisfy the parties that Substantial Completion has been achieved.

Acceptance Testing

There are two fundamental aspects to the Acceptance Testing – functional and operational. The functionality of the CalAmp GovOutlook System will have been completely tested by the Test phase of the project. To a lesser extent, the ability of the user to change the operational parameters in order to change the service provided will have also been demonstrated. As a consequence, the Acceptance Test is largely a confirmation of the functional requirements and a stress / full loading test of the operation as the service parameters are changed based upon real time public demand.

Because of the inherent inability to predict the need for service changes, it is only by observing the system over a period of time that we can be reasonably assured that all the possible combinations and scenarios have been considered. During the Acceptance Testing the performance of the System will also be evaluated, with regard to the ability of the system to respond in a timely and efficient manner to customer oversight and customer requests.

Installation

If desired, CalAmp can be responsible for the installation of all equipment furnished under this contract. CalAmp can perform the installation and provide local support. CalAmp will require the client's cooperation and assistance in coordinating vehicle access and availability.

All work will be executed in the manner best calculated, according to local conditions, to promote rapidity and accuracy; to secure safety to life, personnel and property; to assure safe and continuous operation of the existing dispatch, computer, and daily operations; and, to reduce to a minimum any interference with the public and with other contractors in or about the property.

Management and Installation

The installation team manages all aspects of the installation of these units by working closely with client representatives. Together, the installation team and client will identify vehicles and schedule installations on a on a non-intrusive basis. Installation of CalAmp LMU Mobile hardware units will be verified by inspections. Typically, we perform a physical checkout of the installation, which includes ensuring proper form, fit, security, and location of the unit. In addition, a communications check is performed to ensure that the modem is operational.

Operational Checkout

Upon completion of a small subset of the entire installation, we will perform a complete operational checkout of the hardware and firmware. This checkout will ensure bi-directional communication between the CalAmp LMU Mobile hardware unit and CalAmp GovOutlook Base Server and verify the accuracy of receive/transmit (RX/TX) event data shared between the CalAmp LMU Mobile hardware units and The CalAmp GovOutlook Base Server software. Upon successful completion of this test, the units and vehicles are tagged as "ready for integration."

Warranty

As an expression of confidence in our products to continue meeting the high standard of reliability and performance that our customers have come to expect, CalAmp products are covered by the following warranty.

CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. During the warranty period CalAmp provides the warranty service. CalAmp will, at its option, either repair or replace products which prove to be defective. The Customer shall prepay shipping charges for products returned to CalAmp for warranty service and CalAmp shall pay for return of products to Customer. However, the Customer shall pay all shipping charges, duties, and taxes for products returned to CalAmp from outside the United States. This warranty shall not apply to damage resulting from:

- Improper or inadequate maintenance by the Customer
- Customer-supplied interfacing
- Unauthorized modification or misuse
- Operation outside of the product environmental specifications
- Improper installation, where applicable

No other warranty is expressed or implied. CalAmp specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Remedies provided herein are Customer's sole and exclusive remedies. CalAmp shall not be liable for any direct, indirect, special incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

Service Response Plan

The following is CalAmp’s standard Customer Support Plan:

CalAmp will support the software throughout the life of the contract and warrant/maintain all equipment for one year, parts and labor, or unless otherwise extended. In addition, CalAmp will provide two options to help ensure smooth operation of the system:

1) Phone Support During the warranty period, CalAmp will provide unlimited phone support via our toll-free number [(866) 869-7700]. After hours support is available 24/7 through the 911 option on our telephone system.

2) Remote Access Support

Any travel required to support on-site service is not included.

Severity	Time Reported	Target Response Time	Response Method
1	7x24	<4 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
2	Regular Hours	<3 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
2	After Hours	Next Business Day	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
3	Regular Hours	<8 Hours	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)
3	After Hours	Next Business Day	Phone Call (Follow-up with Remote Access Troubleshooting as Necessary)

* Response time targets are measured from receipt of first notification by telephone to our Torrance Office Number [(310) 787-7700] or toll-free number [(866) 869-7700]. For after hours calls follow our instructions for Emergency Service, directory 911. A page will go out to an on-call support provider.

***Regular Hours are defined as Monday through Friday, 9 A.M. to 5 P.M. Pacific Time, excluding holidays. After Hours are all non-Regular Hours.*

Problem Severity Definitions

a. **Severity 1** – A Severity 1 Problem is a catastrophic failure that severely impacts the Customer’s ability to conduct its core business – i.e., the Customer’s Automatic Vehicle Locator and/or Mobile Data System are down or not functioning and no procedural workaround exists.

b. **Severity 2** - A Severity 2 Problem is a high-impact Problem that disrupts important functions of the Customer's operation, but the Customer can still remain productive and maintain necessary business-level operations.

c. **Severity 3** - A Severity 3 Problem is a Problem that is of lesser magnitude than a Severity 1 or 2 Problem.

Problem Resolution Targets

a. **Severity 1** - When working a "Severity 1" Problem, the objective is to resolve the Problem entirely or to downgrade the Problem's Severity designation (*i.e.*, provide Customer sufficient functionality so that the Problem may be reclassified as Severity 2 or 3) within 24 hours after the Problem is reported. Efforts to isolate, diagnose, and effect a work-around for, repair, or downgrade a "Severity 1" Problem shall be continuous (*i.e.*, around-the-clock) between Customer, Service Provider and CalAmp (as needed), provided that Customer performs all of its obligations hereunder, including providing remote access to its systems. Periodic phone contact and progress updates will be provided at regular intervals during problem resolution. When the severity level has been changed to "Severity 2" or "Severity 3," the guidelines cited below are followed.

b. **Severity 2** - When working a "Severity 2" Problem, the objective is to have a solution and/or fix to the Customer within fifteen (15) business days. Efforts to isolate, diagnose, and affect a work-around or repair to a "Severity 2" Problem shall be continuous during Regular Hours. Customer resources may need to be available after hours and/or weekends upon mutual agreement between Customer and Service Provider, on a case-by-case basis.

c. **Severity 3** - When working a "Severity 3" Problem, the objective is to get the Customer a fix to the Problem or develop a workaround acceptable to the Customer within thirty (30) business days. Such a fix will typically be provided via a software patch or upgrade from CalAmp.

In-Vehicle Hardware Service

Once the units are deemed faulty and in need of RMA:

- 1) CalAmp will issue an RMA number.
- 2) Customer is responsible for removing/swapping the unit from the vehicle. (CalAmp will train your staff, it is a relatively simple process.)
- 3) Customer is responsible for suitable packaging and shipment to CalAmp in Torrance, CA.
- 4) CalAmp will repair/replace the RMA unit at our discretion.
- 5) CalAmp will package and ship back to customer.
- 6) Customer is responsible for re-installing unit back in vehicle.

Note: With specific arrangements, CalAmp can optionally provide complete on-site service.

Response to Specifications

3.2. Scope of Services:

The proposed system shall include, at a minimum, the features listed in the General Specifications section below. Respondents shall identify whether the proposed system complies with each requirement and explain the compliance in a narrative. In order to demonstrate total system knowledge and an understanding of requirement, Respondents shall submit a proposal package. This package shall include a paragraph-by-paragraph response for all sections. The responses are limited to: understood and comply, clarification, or exception.

3.3. General Specifications for Large Trucks, Equipment, and Other County Owned Vehicles:

3.3.1. The MDC system with Automatic Vehicle Location (AVL)/GPS to be supplied shall retrofit each vehicle.

Comply. The various models of CalAmp devices can be installed on any type of vehicle or equipment. CalAmp can train your staff, and/or perform the installation and provide local support if desired. CalAmp will require the client's cooperation and assistance in coordinating vehicle access and availability. The installation team manages all aspects of the installation of these units by working closely with client representatives. Together, the installation team and client will identify vehicles and schedule installations on a on a non-intrusive basis. See Installation.

3.3.2. The system shall be a turnkey web hosted vehicle management solution that provides visibility into the daily work activities of the equipped vehicles.

Comply. CalAmp GovOutlook is an enterprise level SaaS AVL system that is accessed via Web browser using unique login and password. The CalAmp GovOutlook Application displays the current location and status of the vehicle fleet 24/7.

3.3.3. The communications technology to be used for transmitting data shall be General

Packet Radio Service (GPRS). The system shall include all necessary hardware items, processors, antennas, etc.

Comply. We can provide this as specified, however we are assuming you don't really want GPRS since that is the existing 2G technology that is going away very soon. CalAmp can use virtually any cellular wireless carrier and technology for the communications portion of this system. CalAmp recommends using the Verizon CDMA network for the best combination of value, coverage, and longevity. CalAmp has worked with more communications technologies in our 20+ years of technology leadership than any other vendor in this marketplace. CalAmp GovOutlook systems can use any type of public data network (cellular) including: CDMA, GPRS/HSPA, GSM, EV-DO, Nextel/iDEN, 3G, 4G/LTE, and many others.

The CalAmp LMU Mobile Unit comes with all bracketing, cabling, and connectors required for full installation

3.3.4. Respondents shall state the average accuracy of their system.

Comply. The GPS accuracy is 2 meters (7 feet) CEP.

3.3.5. The system shall support substantial flash memory for storage of data over extended periods of connectivity loss to allow for storage of all readings until GPRS coverage is reestablished. The system shall then transmit the data stored by the vendor and provide a full historical record, without interruption, of the vehicle.

Comply. If the mobile unit goes out of cellular coverage area, the device has store and forward capability for up to 20,000 positions. All data points will time tagged and stored and uploaded over the air once connectivity is restored.

3.3.6. The system shall provide the ability to detect power loss and immediately report if a unit has been inadvertently or intentionally disconnected and reconnected.

Comply. The device has a built-in tamper alert battery that can send a real time notification to any user if power to the device is disconnected. Our standard devices have internal batteries for reporting when power is cut to the unit.

3.3.7. Vendor shall state the typical draw of current in "key-off" mode to provide minimal battery discharge when not in use.

Comply. The CalAmp LMU mobile Units draw very little power and have a sleep mode which keeps them from draining a vehicle's battery. The CalAmp LMU mobile unit will be programmed to perform wake/sleep at certain times even with ignition off. See Mobile Unit specification sheets for the various statistics.

3.3.8. The system shall provide hourly usage reports to reflect how many minutes in each hour a vehicle was in use.

Comply. The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that covers trips, idle, speed, stops, hours, mileage, etc. Reports may be exported into virtually any format including PDF format, MS Excel files and SQL format, etc.

3.3.9. The system shall provide mileage reports to reflect how many miles in each day, month, and year the vehicle was driven.

Comply. The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that covers trips, idle, speed, stops, hours, mileage, etc. Reports may be exported into virtually any format including PDF format, MS Excel files and SQL format, etc.

3.3.10. The system shall provide the ability to draw geo-fences, label fences, and show the accumulation of time and mileage within said fence.

Comply. As a standard feature, the CalAmp GovOutlook system uniquely allows the user to set highly advanced geo-fences and landmarks on the map display because of the powerful underlying GIS engine in our AVL application. Landmarks and Geo-borders can be created as infinite-sided polygons, a configurable radius from a specific point, deviation from a line (ie route), and most importantly: created from existing boundaries, landmarks or zones within your GIS. The geo-borders will create an alert and/or exception report when breached. Our geo-fencing tool allows the user to create and manage their geo-fences as well.

3.3.11. The system shall provide user-configurable notifications for excess speeds, excess idle times, and operation after normal operating hours, previous power loss, maintenance exceptions, and possibly battery voltage.

Comply. The CalAmp GovOutlook system allows authorized administrators extensive control over system features including alerts and alarms. The system can be configured to notify selected users when specific events occur with any of the vehicles. This includes geo-borders, hours of operation, idle, panic buttons, etc. Notifications can be sent as an e-mail, SMS, or to the alert screen on the software.

3.3.12. The system should provide user-configurable odometer and hour meter that syncs with the vehicle's actual odometer and hour meter. The system shall also include the ability to readjust to both odometer and hour meters if a variance occurs.

Comply. Our unit calculates highly accurate mileage data (more accurate than the odometer). We can also optionally connect to odometer via diagnostic port. These readings can be adjusted in the administrative interface.

3.3.13. The system shall be a rugged design constructed of components intended and suitable for the mobile equipment market. The system shall conform to SAE1455 for chassis – mounted devices and not be damaged by mechanical shock of +/- 25g. For guaranteed low temperature operations, the device must operate without degradation of performance in ambient temperatures of -30°C to 60°C.

Comply. To ensure reliability and availability of the entire system, the critical mobile units are built to exacting military standards to resist vibration, climate, and electromagnetic interference. First-quality components, extensive RF/EMI shielding, and specialty power conditioning circuits protect the GPS receiver and micro-controller in the "computer hostile" vehicular environment.

3.3.14. The system shall contain all necessary hardware and onboard memory to log GPS coordinates (latitude/longitude), speed, heading and time, engine hours (ignition "on" time), and may include optional spreader data.

Comply. If the mobile unit goes out of cellular coverage area, the device has store and forward capability for up to 20,000 positions. All data points will time tagged and stored and uploaded over the air once connectivity is restored.

The CalAmp GovOutlook Application displays the current location and status of the vehicle fleet, along with address, route, and other attribute information, over both raster and vector-based maps (as desired).

The CalAmp LMU mobile Unit will be connected to the on-board vehicle power and any sensor signals, to capture, speed, date, time, direction, idle time, travel/stop, ignition on/off, PTO, spreaders on/off, plow up/down, and location. Reports can be generated to cover these vehicle activities.

3.3.15. The system should be able to have an option to export and send daily reports (CSV files) to an email or a File Transfer Protocol (FTP) account hosted at Boone County for data archiving purposes that is accessible and read within a Geographic Information System (GIS) database.

Comply. CalAmp servers archive all data indefinitely and typically keeps 6 months live for instant reporting. Any time increment can be quickly restored upon request. The CalAmp GovOutlook Base database is based on SQL Server and manages all fleet data and archives and distributes the vehicle location and status information. All vehicle data and reports can be exported to CSV/Excel/SQL files for additional reporting capability. Data can be provided to the customer at any time and frequency via FTP or other data transfer method such as a Web Service.

The CalAmp GovOutlook Mapping application is actually based on mapping and GIS engines from ESRI- ArcGIS Server! The CalAmp GovOutlook system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own ESRI GIS maps within our application. The CalAmp GovOutlook system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. A satellite view is included.

3 .3 .16. The system should include various steps and options for exporting purposes such as:

3 .3 .16.1. Vehicle Selection: The option to filter export data by vehicle.

Comply. The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that covers trips, idle, speed, stops, hours, mileage, etc. Reports may be produced for selected vehicles (or groups of vehicles).

3 .3 .16.2. Scheduling Descriptors: The option to filter export data by scheduling descriptors such as Schedule Title, Schedule Description, Time Zone, etc.

Comply.

3 .3 .16.3. Scheduling Frequency: The option to choose the frequency of running the export (daily, monthly, yearly, etc); the option to choose the timeframe in which to run the export by selecting a start and end date and time; and the option to select a time and date for this data to be sent.

Comply. Reports may be produced based on different frequencies (daily, weekly, monthly, quarterly, etc).

3.3.16.4. The system should be accessible by any County employee that has been given a username and password to login and schedule new reports and/or edit existing scheduled reports.

Comply. The CalAmp GovOutlook system can support unlimited simultaneous users. The CalAmp GovOutlook System provides for multiple access levels for users and can be configured so that specific users only have access to specific functionality or vehicle information. CalAmp GovOutlook has extensive grouping and subgrouping capabilities that allow/limit specific user access to specific vehicles/groups.

3.3.17. The system shall have software with the ability to modify cellular reporting characteristics of hardware to optimize information based on need. Configuration possibilities should include the ability to initiate reports on equipment power up or power down, by a certain number of minutes of operation, by a wake-up feature to set a periodic interval for a "nightly report", and on the change of a switch state (i.e. vehicle's status as changed such as ignition off/on, spreader off/on, speed change, etc). The County should be able to change this configuration via a web interface and have changes applied over-the-air without physically handling the GPS device.

Comply. The CalAmp GovOutlook system can update at virtually any rate and update rates can adjust dynamically depending on factors such as vehicle status or the triggering of an on-board sensor. CalAmp typically recommends a 30-60 second update rate when moving, plus all events such as starts, stops, turns, ignition, sensors, etc. These configurations are controlled by CalAmp and can be changed/configured at the client's request. All updates are done remotely over-the-air and do not require physically touching the unit.

3.3.18. All collected data shall be stored at a data center and available for access by users with the appropriate security access twenty-four (24) hours per day, seven (7) days per week.

This solution provides detailed mapping and reporting of interfaces that are accessible via most standard internet web browsers. Respondent shall describe the access to historical data and the timeframes for access.

Comply. CalAmp GovOutlook is an enterprise level Web browser based AVL system that is accessed via Internet Explorer or Chrome using unique login and password. The CalAmp GovOutlook Application displays the current location and status of the vehicle fleet 24/7. CalAmp archives all data indefinitely and typically keeps 6 months live for instant reporting but can discuss alternative time frames for this project if desired. Any time increment can be quickly restored upon request. The CalAmp GovOutlook Base database is based on SQL Server and manages all fleet data and archives and distributes the vehicle location and status information. All vehicle data and reports can be exported to CSV/Excel/SQL files for additional reporting capability. Data can be provided to the customer at any time and frequency via FTP or other data transfer method.

3.3.19. The system shall provide a user customizable dashboard with quick fleet summary reports.

The GovOutlook interface has both a real time map and corresponding vehicle table/dashboard that shows current vehicle data such as address, speed, and heading at a glance. Reports can be searched for additional information. The user can configure which vehicle, group, or subgroup to display. The vehicle icons are configured to indicate (using colors, directional symbols, labels, and size) various vehicle attributes (such as ID, status, speed, heading, etc.). All of the vehicle attribute data may be instantly queried and displayed in a pop-up box using a standard identify tool.

3.3.20. The system shall geo-stamp and reverse geo-code every data point provided within the historical trip report.

Comply. Our GovOutlook AVL mapping system is actually based on ESRI ArcGIS Server. The CalAmp GovOutlook system can use virtually any type of map data, but in particular our software can overlay our AVL information on your own Esri GIS maps. CalAmp allows you to utilize your existing investment of time and labor that went into your Esri map data. The CalAmp GovOutlook system relates real-time vehicle location and status data to the infrastructure, assets, boundaries, updates, routes, parcels, landmarks, and other critical elements of your constantly changing GIS map data. CalAmp has extensive experience working with Esri data and environments in all forms (.shp files, SDE, etc.). As an option, CalAmp can actually access your GIS map data in real time via Map Services

3.3.21. The system provides a "quick look" homepage that allows the user to see a quick update in regards to the weekly reporting of the assets. The homepage of each user shall be completely customizable based upon the available applications to the homepage.

Comply.

3.3.22. Respondent shall supply a list of all reports that can be obtained from their system.

Comply. The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that covers trips, idle, speed, stops, hours, mileage, etc. Reports may be produced for selected vehicles (or groups of vehicles). The CalAmp GovOutlook system comes with a suite of standard graphical and tabular reports that cover all the main vehicle activities that one would expect from an industry leading AVL system. We have spent years working with hundreds of fleet customers to refine our report offerings to encompass the most useful and important reports. Some of the data in our standard reports are:

- **Vehicle Activity**
- **Travel & Stop**
- **Speed**
- **Harsh braking/acceleration**
- **Diagnostic Codes**
- **Geo-borders**
- **Vehicle Usage (Mileage, Idle Time & Engine Hours)**
- **Vehicle Inactivity**
- **Sensor Reports (armatures, PTO, broom, plows, etc.)**

3.3.23. The system shall provide an unlimited amount of user defined polygonal geo fences.

Comply. As a standard feature, the CalAmp GovOutlook system uniquely allows the user to set highly advanced geo-fences on the map display because of the powerful underlying GIS engine in our AVL application. Geo-borders can be created as infinite-sided polygons, a configurable radius from a specific point, deviation from a line (ie route), and most importantly: created from existing boundaries, landmarks or zones within your GIS. The geo-borders will create an alert and/or exception report when breached. Our geo-fencing tool allows the user to create and manage their geo-fences as well.

3.3.24. The system shall provide unlimited user logins.

Comply. The CalAmp GovOutlook system can support unlimited simultaneous users. The CalAmp GovOutlook System provides for multiple access levels for users and can be configured so that specific users only have access to specific functionality or vehicle information. CalAmp GovOutlook has extensive grouping and subgrouping capabilities that allow/limit specific user access to specific vehicles/groups.

3.3.25. The system shall allow authorized personnel to view the data via standard web browsers.

Comply. The CalAmp GovOutlook system can support unlimited simultaneous users. The CalAmp GovOutlook System provides for multiple access levels for users and can be configured so that specific users only have access to specific functionality or vehicle information. CalAmp GovOutlook has extensive grouping and subgrouping capabilities that allow/limit specific user access to specific vehicles/groups.

3.3.26. The system shall allow the users with administration privileges to set up additional users that may include other administrators or just individuals that only have the ability to view data but not edit any settings, or any combination that the end user would require on a per user basis.

Comply. The CalAmp GovOutlook system can support unlimited simultaneous users. The CalAmp GovOutlook System provides for multiple access levels for users and can be configured so that specific users only have access to specific functionality or vehicle information. CalAmp GovOutlook has extensive grouping and subgrouping capabilities that allow/limit specific user access to specific vehicles/groups.

3.3.27. The system shall provide a fleet wide setting feature that enables the administrator to set options to apply to the entire fleet. The system shall also allow users privileges to view fleets and reports based on the user's login profile.

Comply. The CalAmp GovOutlook system can support unlimited simultaneous users. The CalAmp GovOutlook System provides for multiple access levels for users and can be configured so that specific users only have access to specific functionality or vehicle information. CalAmp GovOutlook has extensive grouping and subgrouping capabilities that allow/limit specific user access to specific vehicles/groups.

3.3.28. The system shall provide route replay function.

Comply. The CalAmp GovOutlook system allows you to watch a historical "replay" of any portion of a vehicle's activity history at various speeds. Controls let you play, pause, rewind, and fast forward the replay allowing you to watch the vehicles' movement and behavior including location, device activities, alerts, status changes, events, etc. Each breadcrumb icon represents a vehicle position and all its underlying data including address, direction, speed, and status. Breadcrumb icons can be customized to represent various statuses and events, such as ignition off/on, or a device is activated (broom, plow, armature, PTO, etc.)

3.3.29. The system may provide a wake-up and check location function. The system should allow the administrator to set a regular interval where the device wakes-up and verifies if offroad equipment has not been moved. If it has been moved, the vehicle reports it has moved through the use of geo fences or other exception reporting. Email alerts will then be sent notifying management that equipment has moved unexpectedly.

Comply. The CalAmp LMU mobile unit can be programmed to perform wake/sleep at certain times even with ignition off. The CalAmp GovOutlook system allows authorized administrators extensive control over system features including alerts and alarms. The system can be configured to notify selected users when specific events occur with any of the vehicles. This includes geo-borders, hours of operation, idle, panic buttons, etc. Notifications can be sent as an e-mail, SMS, or to the alert screen on the software.

3.3.30. Equipment shall have the ability to be transferred from one vehicle to another without any additional costs.

Comply. Typically the mobile unit is only installed up under the dashboard or in the trunk and is only connected with power, ground, and ignition (and optionally diagnostics). They can be uninstalled and reinstalled in a different vehicle when desired. Reassigning the unit to a different vehicle can be easily and quickly done via the Web interface. Physical swapping of the unit can be done by trained County mechanics or optionally by CalAmp.

3.4. Optional - Specifications for Snow Equipment:

3.4.1. In addition to those listed in the previous section the Respondent shall describe their interface with Force America and Component Technology ACS Spreader Control Systems and provide all information on the system functionality for each including the data/reports provided.

Comply. The CalAmp LMU Mobile Unit is optionally capable of interfacing to a wide variety of external mobile data terminals, mobile computing devices, in-vehicle peripherals, and various sensor systems including any variety of equipped spreader controller units. We interface via RS-232 serial connection to gather spreader data as configured from the controller unit. We have interfaced to many different spreader controller units including Force America, Dickey-John, and many more.

3.4.2. The system shall provide two (2) digital inputs to monitor various functions as needed. Functions include, but are not limited to, sweeper broom activated, water activated, moldboard up/down, and hoist positions.

Comply. CalAmp can offer multiple types of LMU mobile units with similar functionality that may support different wireless technologies as well as quantities and types of inputs/outputs. The CalAmp LMU product line offers a wide variety of the newest state-of-the-art AVL devices for various customer needs. The CalAmp LMU mobile GPS devices can be equipped with a variety of networks, options, serial ports and sensors that integrate to virtually any devices and external status signals, such as ignition on/off, door open/shut, lights, plow, engine diagnostics, data terminal, ID readers, etc.

3.4.3. The system shall be protected and immune to over-voltage conditions and reverse polarity. The system shall utilize a live 12V/24V connection to the vehicle battery.

Comply. Each CalAmp LMU Mobile Unit is standard with 6-32 VDC. To ensure reliability and availability of the entire system, the critical mobile units are built to exacting military standards to resist vibration, climate, and electromagnetic interference. First-quality components, extensive RF/EMI shielding, and specialty power conditioning circuits protect the GPS receiver and micro-controller in the "computer hostile" vehicular environment

3.4.4. To minimize vehicle battery drain, the unit's typical current draw shall not exceed 9mA during sleep mode (key off).

Comply. See Mobile Unit Specification sheets in proposal.

3.4.5. The system shall allow for configurability of GPS defined by distance, time, angle change, start, and stop.

Comply. The CalAmp LMU mobile Unit will be connected to the on-board vehicle power ignition, and any sensor signals, to capture idle time, engine on/off, vehicle speed, travel/stop, location, odd hours, PTO, Foggers on/off, Auxiliary systems etc. Reports can be generated to cover these vehicle activities. The LMU devices are equipped with an accelerometer/gyroscope that can detect various types of movement anomalies such as turns, harsh acceleration, harsh braking, as well as movement when the vehicle is not on. All of these exception events can be set to alert or appear in a report or dashboard.

3.4.6. The system shall allow for configurability of GPRS defined by power up, power down, interval(s), wake-up, and switch change to allow management of the data costs associated with sending information over the air and allow optimization of data costs by determining how often they want to see information about the asset.

Comply. The CalAmp GovOutlook system can update at virtually any rate and update rates can adjust dynamically depending on factors such as vehicle status or the triggering of an on-board sensor. CalAmp typically recommends a 30-60 second update rate when moving, plus all events such as starts, stops, turns, ignition, sensors, etc. Snowplows should report at 10 seconds when the plow is down. These configurations are controlled by CalAmp and can be changed/configured at the client's request.

3.4.7. The system should have two (2) digital outputs available for configuration.

Comply.

3.5.Optional - Training to be Provided:

3.5.1. Training for installation shall be provided to Boone County Technicians.

Comply. CalAmp will provide live training sessions on the entire AVL system sufficient to ensure complete understanding and operations proficiency by the desired client staff and administrative personnel. The training sessions shall be held at locations specified by the client for administrative, driver, dispatch, executive, maintenance, and all other relevant parties. All materials and manuals will be provided in both printed and electronic format. CalAmp and the other team members will work with the customer's team to define the required courses and a reasonable number of attendees/course duration during the implementation phase of the project. See Training.

3.5.2. The successful Respondent shall include user website training in their proposal.

Comply. We can offer online remote training as needed. We can also provide recorded online training from previous training sessions. All materials and manuals will be provided in both printed and electronic format.

3.5.3. On-site training shall be provided to vehicle operators on a date and time approved by the County.

Comply. CalAmp will provide live training sessions on the entire AVL system sufficient to ensure complete understanding and operations proficiency by the desired client staff and administrative personnel. The training sessions shall be held at locations specified by the client for administrative, driver, dispatch, executive, maintenance, and all other relevant parties. All materials and manuals will be provided in both printed and electronic format. CalAmp and the other team members will work with the customer's team to define the required courses and a

reasonable number of attendees/course duration during the implementation phase of the project. See Training.

3.5.4. The successful Respondent shall provide paper and electronic copies of the training materials to be used for the initial training as well as to enable future staff training

Comply. All materials and manuals will be provided in both printed and electronic format.

3.6.Optional - Installation of System:

3.6.1. The price should reflect the cost of the installation of the equipment by the vendor.

Comply. See Pricing.

3.6.2. At least one **(1)** unit of each type of equipment shall be installed by the vendor. Cost of installation for all units is desired.

Comply. CalAmp can train your staff, and/or perform the installation and provide local support if desired. CalAmp will require the client's cooperation and assistance in coordinating vehicle access and availability. The installation team manages all aspects of the installation of these units by working closely with client representatives. Together, the installation team and client will identify vehicles and schedule installations on a on a non-intrusive basis. See Installation.

3.6.3. The awarded Respondent shall be responsible for resolution of technical issues during development and implementation prior to the County's final acceptance. Such resolution shall be accomplished at no additional costs to the County.

Comply.

3.6.4. The system shall be complete, including but not limited to, hardware, mounts connectors, wiring, and software.

Comply. The CalAmp LMU Mobile Unit comes with all bracketing, cabling, and connectors required for full installation.

3.6.5. The successful Respondent shall provide the County with an Acceptance Test Plan that aligns with and meets all agreed upon system specifications.

Comply. During the Acceptance Testing the performance of the System will also be evaluated, with regard to the ability of the system to respond in a timely and efficient manner to customer oversight and customer requests.

3.6.6. The system shall be fully operational and demonstrated in a site test prior to County acceptance.

Comply. Every installation concludes with full inspection and functionality testing. CalAmp will be responsible for component specific testing. As integration of the technical components begins, client's Project Manager (& necessary staff) will oversee and coordinate the implementation of the integration testing in order to ensure compliance with the overall project and performance objectives set forth herein. The anticipated dates for conducting the required testing are defined in the Project Work Plan and will be finalized during the Design Review. See Test and Implementation Plan

3.6.7. Workers installing the system shall be paid not less than the prevailing hourly rate of wages, as found by the Department of Labor and Industrial Relations of Missouri. See Section 4.2. Prevailing Wage.

Comply.

3.6.8. Insurance shall be required should installation of the system be included in the contract. Insurance Requirements are described in Section 4.1.

Comply.

3.7 .Delivery:

3.7.1. The equipment must be received within sixty (60) days of the fully executed contract.

Comply.

3.7.2. Firm delivery schedules are essential. Respondents shall set forth in their proposal the number of calendar days in which delivery will be fully complete in strict accordance with the specifications on the Response Page. A timely delivery schedule with an installation and training schedule shall be stated on the Response Page.

Comply. See Implementation Timeline for a base timeline. The project manager will work the County project team to further solidify the details of the implementation process when options and resource availability are more clearly known.

3.7.3. The delivery terms are FOB Destination with Inside Delivery to designated room. All deliveries shall be made FOB Destination with freight charges included and prepaid. The seller pays and bears the freight charges.

Comply.

3.8.Warranty:

3.8.1. The proposed system's equipment shall be warranted for a period of one (1) year from the date of acceptance for operation (substantial completion) by the County or County's Representatives.

Comply. CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. During the warranty period CalAmp provides the warranty service. CalAmp will, at its option, either repair or replace products which prove to be defective. Extended annual warranties are available as an option. See Warranty.

3.8.2. The equipment shall be warranted to be free from defects in workmanship, design, and materials.

Comply. CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. During the warranty period CalAmp provides the warranty service. CalAmp will, at its option, either repair or replace products which prove to be defective. Extended annual warranties are available as an option. See Warranty.

3.8.3. If any equipment should fail during the warranty period, it shall be replaced and the proposed system restored to service at no expense to the Owner.

Comply. CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty

agreement. During the warranty period CalAmp provides the warranty service. CalAmp will, at its option, either repair or replace products which prove to be defective. Extended annual warranties are available as an option. See Warranty.

3.8.4. Warranty shall be handled through a local dealer or representative.

Comply.

3.8.5. The successful Respondent shall deliver to the Owner or Owner's Representatives, prior to final acceptance for operation of any item of equipment, the manufacturer's written warranty as outlined above.

Comply. See Warranty included in proposal.

3.8.6. The manufacturer's warranty period shall run concurrently with the Owner's warranty.

Comply.

3.8.7. The successful Respondent shall be responsible for obtaining equipment warranties from each of the respective suppliers or manufacturers for the equipment specified.

Comply.

3.8.8. Manufacturer equipment warranties shall be transferred to the Owner.

Comply.

3.9.Repair

3.9.1. Respondent shall describe their remote support and on-site support plan including cost of each. It is expected that support will be provided 24 hours per day and 7 days per week.

Comply. CalAmp will provide telephone and email support to help ensure smooth operation of the system. During the warranty period, CalAmp will provide unlimited phone support via our toll-free number [(866) 869-7700]. After hours support is available 24/7 through the 911 option on our telephone system. See Service Response Plan. Additional access and procedures can be provided as well. CalAmp highly recommends keeping a pool of spare units onsite that can be swapped in very easily to avoid down time and unnecessary logistical delays.

3.9.2. Respondent shall state the number of years they will maintain a complete stock of all repair components for the proposed MDC/GPS Vehicle Tracking and Fleet Management System after initial delivery. Parts shall be available for same-day shipment, on an expedited basis, 24 hours a day, 365 days a year, including weekends and holidays. The successful Respondent shall provide a letter from the manufacturer in writing that details this requirement and condition as part of the award of the contract.

Comply. The mobile devices are guaranteed to be technologically viable for no less than 5 years. Firmware upgrades will be provided at no extra charge. In addition CalAmp is constantly coming out with new releases of various mobile units that will be compatible with the GovOutlook system. We manufacture over 2 million M2M devices annually.

7. RESPONSE / PRICING PAGE

In compliance with this Request for Proposal and subject to all the conditions thereof, the Respondent agrees to furnish the services/equipment/supplies requested and proposed and certifies he/she has read, understands, and agrees to all terms, conditions, and requirements of this proposal and is authorized to contract on behalf of the Respondent named below. Note that this form must be signed and that all signatures must be originals.

Company Name: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Telephone: (310) 564-8500

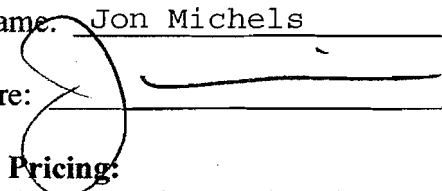
Facsimile: (310) 787-7435

Email: blim@calamp.com

Federal Tax ID (or Social Security Number): 33-0477102

Print Name: Jon Michels

Title: Vice-President

Signature: 

Date: 8/21/15

7.1. Pricing:

The County is providing this Response Form for summarized pricing. Please attach a more detailed listing outlining the equipment, labor, installation, set-up, testing, and training with all costs. Costs shall include cost of equipment, add-on features cost, software cost (if applicable), training cost, labor, a minimum of five (5) years of renewal for equipment maintenance broken out per year, warranty, and any other costs. Fee proposal shall include full itemized pricing information. As appropriate, items should include professional fees, materials, out of pocket expenses, sub-consultant fees, and any other costs anticipated by the Respondent to satisfy the purpose of this Request for Proposal.

Any list of equipment is provided for informational purposes. Respondent shall price one of the identified acceptable models within or price an approved equal. Determination of equality is solely Boone County's responsibility. Please attach itemized pricing with brand and model numbers.

Please see attached pricing

	Description		
7.1.1.	Base Price: MDC/GPS System for Large Trucks, Equipment, and Other County Owned Vehicles	\$	Price Per Vehicle
7.1.2.	Add Option 1: Snow Equipment	\$	Price Per Equipment
7.1.3.	Recurring Fees: Data or subscription plans	\$	Per Month
7.1.4.	Delivery Time: Number of calendar days in which delivery will be complete following receipt of order		Calendar Days
7.1.5.	Add Option 2: Training Session	\$	Per Session

7.1.6.	Training Time: Number of calendar days allowed for training for receipt of order		Calendar Days
7.1.7.	Add Option 3: Installation	\$	
7.1.8.	Installation Time: Number of calendar days in which installation will be complete following receipt of order	\$	Calendar Days

7.2. Describe Warranty on equipment and labor (or attach description):

CalAmp warrants all products against defects in materials and workmanship for a period of one year from the date of factory sale, or the term outlined in an extended warranty agreement. See Warranty.

7.3. List any deviations to the required specifications/scope of work:

See Response to Specifications

7.4. List all sub-contractors that will be utilized on this project (if any):

To be determined

7.5. Provide a contract person who will be responsible for coordinating the efforts and personnel of all parties involved in the response, to include, but not be limited to, oral presentations, demonstrations, site visits, and responses to request for clarification, if any. Provide the following:

Name: Brett Lim

Organization: CalAmp Radio Satellite Integrators

Address: 19144 Van Ness Ave, Torrance, CA 90501

Phone: (310) 564-8500

Facsimile: (310) 787-7435

E-Mail: blim@calamp.com



County of Boone

RFP #: 48-31AUG15

MDC/GPS Vehicle Tracking System

MOBILE HARDWARE

quantity		per unit			total
42	<u>MOBILE UNIT (LMU 4220)</u> <i>Mobile Units Configured for cellular network Includes standard tamper alert back-up battery Hard-wired, includes all necessary cabling and mount.</i>	\$	135 each	\$	5,670
16	<u>Spreader Controller Interface</u> <i>CalAmp costs only.</i>	\$	245 each	\$	3,920
42	<u>MOBILE UNIT INSTALLATION PER VEHICLE</u> <i>Client staff can be easily trained on installations.</i>	\$	85 each	\$	3,570

MONTHLY WEB TRACKING SERVICE FEES

quantity		per unit			total
42	<u>CALAMP GOVOUTLOOK TRACKING SERVICE FEES (per Month per Device)</u> <i>GovOutlook Web Browser Based ESRI ArcGIS Server Mapping & Reporting Includes wireless data plan and unlimited Web software access. Service fees are calculated per vehicle per month. Assumes 60 second update rate, plus stops, starts, turns, and events. Other update rates available as an option.</i>	\$	19.00 each	\$	798
	Optional update rates:				
	30 seconds	\$	22.00 each		
	10 seconds	\$	25.00 each		
	Off Season (6 month max)	\$	10.00 each		

ADDITIONAL SYSTEM OPTIONS

TBD quantity		per unit	total
1	DAYS ONSITE TRAINING (remote training is free)	\$ 1,000 each	\$ 1,000
1	LOT TRAVEL EXPENSES (per trip)	\$ 950 each	\$ 950
1	Sensor Integration to existing on-vehicle sensor (each) <i>(broom, plow, PTO, door, box, etc)</i>	\$ 50 each	\$ 50
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (Light Duty OBD-II)	\$ 85 each	\$ 85
1	ENGINE DIAGNOSTIC DATA INTERFACE ADD-ON (Heavy Duty JBus)	\$ 125 each	\$ 125
1	CALAMP CUSTOMIZED GARMIN MDTs <i>Customized messaging and navigation device Includes Mount, Cabling, & Configuration</i>	\$ 375 each	\$ 375
1	CALAMP MDT-7 MOBILE DATA TERMINAL <i>Customized Android Based messaging and navigation device Includes Mount, Cabling, & Configuration Can support significant optional customization.</i>	\$ 495 each	\$ 495
1	MOBILE UNIT (TTU)(Battery powered asset tracker)	\$ 185 each	\$ 185
1	MOBILE UNIT (LMU 5000) (High Speed Router) <i>Requires separate broadband wireless account.</i>	\$ 595 each	\$ 595
1	Real Time Data Feed to Third Party System	TBD each	\$ -
1	RF ID Reader (Driver ID)	\$ 250 each	\$ 250
1	Emergency Buttons Wireless Handheld Medallion	\$ 150 each	\$ 150
1	In Vehicle Button (Emergency or other status) <i>Hard-wired On-Vehicle Button</i>	\$ 75 each	\$ 75
1	Magnetic Card Stripe Reader (Driver ID)	\$ 125 each	\$ 125
1	iButton/Key Fob Reader (Driver ID)	\$ 95 each	\$ 95
42	EXTENDED ANNUAL WARRANTY ON HARDWARE (per unit) <i>Optional Hardware Warranty Past year one.</i>	\$ 18 each	\$ 756

CONFIDENTIAL

Does not include any applicable sales tax.

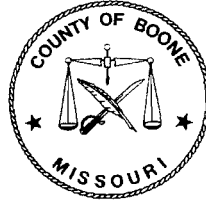
Bonding may incur additional fees.

Minimum Order Quantities may apply for some products.

Includes all manuals and documentation

FOB Torrance, CA

COUNTY OF BOONE – MISSOURI



REQUEST FOR PROPOSAL

FOR

**MDC/GPS VEHICLE TRACKING
AND FLEET MANAGEMENT SYSTEM**

REQUEST FOR PROPOSAL #: 48-31AUG15
RELEASE DATE: July 31, 2015

SUBMITTAL DEADLINE: August 31, 2015
SUBMITTAL TIME: 2:00 p.m. CST

BOONE COUNTY PURCHASING
613 EAST ASH STREET, ROOM 109
COLUMBIA, MO 65201
www.showmeboone.com

CHELI HALEY, BUYER
PHONE: (573)886-4392
FACSIMILE: (573)886-4390
E-MAIL: chaley@boonecountymo.org

NOTICE OF REQUEST FOR PROPOSAL

Boone County is accepting Request for Proposal for the following:

Request for Proposal Number: 48-31AUG15 – MDC/GPS Vehicle Tracking and Fleet Management System

Sealed proposals will be accepted until 2:00 p.m. on August 31, 2015 in the Boone County Purchasing Office, Boone County Annex Building, 613 East Ash Street, Room 109, Columbia, MO 65201.

Requests for Proposal are available in the Purchasing Office and requests for copies may be made by phone: (573)886-4392, by fax: (573)886-4390, or by email: chaley@boonecountymo.org.

Vendors may obtain further information on the Boone County webpage at www.showmeboone.com.

Cheli Haley,
Buyer

Insertion Date: July 31, 2015
COLUMBIA MISSOURIAN

1. INSTRUCTIONS AND GENERAL CONDITIONS

1.1. **Delivery of Proposals:**

Sealed proposals, subject to Instructions and General Conditions and any special conditions set forth herein will be received at the Boone County Purchasing office until the proposal closing date and time indicated herein for furnishing the County with services as detailed in the following request for proposal.

1.2. **Proposal Closing:**

All proposals shall be delivered before 2:00 p.m. Central Standard Time on Monday, August 31, 2015 to:

Boone County Purchasing Department
Attn: Cheli Haley, Buyer
613 East Ash Street, Room 109
Columbia, MO 65201

The County will not accept any proposals received after 2:00 p.m. and will return late proposals to the Respondent.

1.3. **Submissions:**

Respondents must submit one (1) original and eight (8) copies of the proposal. Proposals will be opened publicly, and only names of Respondents will be read aloud. All proposal responses will be considered public information. All responses will become part of public record following contract execution or rejection and will be released to any person who requests it.

Proposals must be submitted in a sealed envelope identified with the proposal number and date of closing. List the Request for Proposal number on the outside of the box or envelope and note "Response to Request for Proposal enclosed."

If you do not care to submit a proposal, please return the No Bid Response Page and note your reason. No faxed or electronic transmitted proposals will be accepted.

If you have obtained the proposal document from our webpage or from a source other than the Boone County Purchasing Department, please check with our office prior to submitting your proposal to ensure that you have a complete package. The Purchasing Department cannot be responsible for providing you with addenda for this proposal if you are not on our list of registered vendors. You may check our website for addenda at www.showmeboone.com, then select "Purchasing," then "Current Bid Opportunities."

2. INTRODUCTION AND GENERAL INFORMATION

2.1. Introduction:

This document constitutes a request for sealed proposals for MDC/GPS Vehicle Tracking and Fleet Management System as set forth herein.

2.2. Organization:

This document, referred to as a Request for Proposal (RFP) is divided into the following sections and contains the attachments listed:

1. Instructions and General Conditions
2. Introduction and General Information
3. Scope of Services
4. Other Terms and Conditions
5. Contract Terms and Conditions
6. Response to Proposal
7. Response/Pricing Page
8. Attachments
 - a) Respondent's Acknowledgment
 - b) Instructions for Compliance with House Bill 1549 and Work Authorization Certification
 - c) Certification of Individual Respondent and Individual Affidavit
 - d) Signature and Identity of Respondent
 - e) Certification Regarding Debarment
 - f) Standard Terms and Conditions
 - g) Statement of Respondent's Qualifications and Prior Experience
 - h) Anti-Collusion Statement
 - i) Affidavit of Compliance with the Prevailing Wage Law (*Awarded Contractor returns at completion*)
 - j) Affidavit of Compliance with OSHA (*Awarded Contractor returns at completion*)
 - k) "No Bid" Response Form
 - l) Annual Wage Order #22

2.3. Guidelines for Written Questions:

All questions regarding this Request for Proposal should be submitted in writing no later than 5:00 p.m. on Tuesday, August 18, 2015. All questions must be mailed, faxed, or emailed to the attention of Cheli Haley, Buyer. All such questions will be answered in writing, and such answers will be provided to all parties having obtained a Request for Proposal packet by the County and by posting the addendum on the Purchasing Department page of the County website under Current Bid Opportunities. Questions should be submitted to:

Boone County Purchasing Department
Attn: Cheli Haley, Buyer
613 East Ash Street, Room 109
Columbia, MO 65201
Phone: (573)886-4392
Facsimile: (573)886-4390
chaley@boonecountymo.org
www.showmeboone.com

In the event that it becomes necessary to revise any part of this RFP, written addenda will be issued. Any addendum to this RFP is valid only if in writing and issued by the Boone County Purchasing Department. Verbal conversations or agreements with any officer, agent, or employee of the County, which modify any terms or obligations of the RFP, are invalid.

2.4.Owner’s Tax Exemption Status:

2.4.1. The Owner of this project, County of Boone, is a sales tax exempt entity. Because of this, materials purchased for and used on this project are eligible for exemption from Missouri sales tax. All Respondents acknowledge and agree that its lump sum price to the County of Boone excludes Missouri sales and use taxes and that the proposed contract sum does not include any Missouri sales taxes for which the County of Boone receives an exemption.

2.4.2. To enable the County of Boone to take advantage of its tax-exempt status, purchase of materials and equipment by the Contractor for its work on this project shall be made under and pursuant to the tax exempt purchase procedure authorized by Missouri Statutes. This procedure includes, among other requirements, the issuance of project exempt certificates to all Contractors who use those certificates to effect tax exempt purchases.

2.5.Billing and Payment:

All invoices must be submitted to the Boone County Public Works Department. Payment will be made within thirty (30) days after receipt of a correct and valid invoice following completion and acceptance of the project. The Purchase Order or contract number should appear on the invoice.

2.6.Designee:

Boone County Public Works, 5551 Tom Bass Road, Columbia, MO 65201

2.7.Proposed Solicitation/Award Schedule:

July 31, 2015	Release of RFP
July 31, 2015	Advertisement of RFP
August 18, 2015	Deadline for submitting questions
August 31, 2015 at 2:00 p.m.	Proposal due date and time
August 31, 2015 – September 30, 2015	RFP Evaluation
September 30, 2015	Contract Award
October 30, 2015	Notice to Proceed
December 31, 2015	Completion/Full Acceptance Date

3. SCOPE OF SERVICES

3.1. **Background:**

The Boone County Public Works Department requests proposals for the purchase of a Mobile Data Collection (MDC)/Global Positioning System (GPS) vehicle tracking and fleet management system, and associated services, herein after referred to as “system.” The County currently has a provider in which the devices in most of its units will be obsolete when 2G communications are eliminated. The proposed system will be used to track no less than the forty-two (42) units listed. Units consist of: five (5) tractor mowers with telemetry on/off for mower section, eight (8) motor graders, sixteen (16) dump trucks (tandem and single axle) with spreader/plow systems, eight (8) work trucks (one ton or greater), four (4) supervisor pickup trucks, and one (1) aerial bucket truck.

3.2. **Scope of Services:**

The proposed system shall include, at a minimum, the features listed in the General Specifications section below. Respondents shall identify whether the proposed system complies with each requirement and explain the compliance in a narrative. In order to demonstrate total system knowledge and an understanding of requirement, Respondents shall submit a proposal package. This package shall include a paragraph-by-paragraph response for all sections. The responses are limited to: understood and comply, clarification, or exception.

3.3. **General Specifications for Large Trucks, Equipment, and Other County Owned Vehicles:**

3.3.1. The MDC system with Automatic Vehicle Location (AVL) / GPS to be supplied shall retrofit each vehicle.

3.3.2. The system shall be a turnkey web hosted vehicle management solution that provides visibility into the daily work activities of the equipped vehicles.

3.3.3. The communications technology to be used for transmitting data shall be General Packet Radio Service (GPRS). The system shall include all necessary hardware items, processors, antennas, etc.

3.3.4. Respondents shall state the average accuracy of their system.

3.3.5. The system shall support substantial flash memory for storage of data over extended periods of connectivity loss to allow for storage of all readings until GPRS coverage is reestablished. The system shall then transmit the data stored by the vendor and provide a full historical record, without interruption, of the vehicle.

3.3.6. The system shall provide the ability to detect power loss and immediately report if a unit has been inadvertently or intentionally disconnected and reconnected.

3.3.7. Vendor shall state the typical draw of current in “key-off” mode to provide minimal battery discharge when not in use.

3.3.8. The system shall provide hourly usage reports to reflect how many minutes in each hour a vehicle was in use.

3.3.9. The system shall provide mileage reports to reflect how many miles in each day, month, and year the vehicle was driven.

3.3.10. The system shall provide the ability to draw geo-fences, label fences, and show the accumulation of time and mileage within said fence.

3.3.11. The system shall provide user-configurable notifications for excess speeds, excess idle times, and operation after normal operating hours, previous power loss, maintenance exceptions, and possibly battery voltage.

3.3.12. The system should provide user-configurable odometer and hour meter that syncs with the vehicle's actual odometer and hour meter. The system shall also include the ability to readjust to both odometer and hour meters if a variance occurs.

3.3.13. The system shall be a rugged design constructed of components intended and suitable for the mobile equipment market. The system shall conform to SAE1455 for chassis – mounted devices and not be damaged by mechanical shock of +/- 25g. For guaranteed low temperature operations, the device must operate without degradation of performance in ambient temperatures of -30°C to 60°C.

3.3.14. The system shall contain all necessary hardware and onboard memory to log GPS coordinates (latitude/longitude), speed, heading and time, engine hours (ignition “on” time), and may include optional spreader data.

3.3.15. The system should be able to have an option to export and send daily reports (CSV files) to an email or a File Transfer Protocol (FTP) account hosted at Boone County for data archiving purposes that is accessible and read within a Geographic Information System (GIS) database.

3.3.16. The system should include various steps and options for exporting purposes such as:

3.3.16.1. Vehicle Selection: The option to filter export data by vehicle.

3.3.16.2. Scheduling Descriptors: The option to filter export data by scheduling descriptors such as Schedule Title, Schedule Description, Time Zone, etc.

3.3.16.3. Scheduling Frequency: The option to choose the frequency of running the export (daily, monthly, yearly, etc); the option to choose the timeframe in which to run the export by selecting a start and end date and time; and the option to select a time and date for this data to be sent.

3.3.16.4. The system should be accessible by any County employee that has been given a username and password to login and schedule new reports and/or edit existing scheduled reports.

3.3.17. The system shall have software with the ability to modify cellular reporting characteristics of hardware to optimize information based on need. Configuration possibilities should include the ability to initiate reports on equipment power up or power down, by a certain number of minutes of operation, by a wake-up feature to set a periodic interval for a “nightly report”, and on the change of a switch state (i.e. vehicle's status as changed such as ignition off/on, spreader off/on, speed change, etc). The County should be able to change this configuration via a web interface and have changes applied over-the-air without physically handling the GPS device.

3.3.18. All collected data shall be stored at a data center and available for access by users with the appropriate security access twenty-four (24) hours per day, seven (7) days per week. This solution provides detailed mapping and reporting of interfaces that are accessible via most standard internet web browsers. Respondent shall describe the access to historical data and the timeframes for access.

3.3.19. The system shall provide a user customizable dashboard with quick fleet summary reports.

3.3.20. The system shall geo-stamp and reverse geo-code every data point provided within the historical trip report.

3.3.21. The system provides a “quick look” homepage that allows the user to see a quick update in regards to the weekly reporting of the assets. The homepage of each user shall be completely customizable based upon the available applications to the homepage.

3.3.22. Respondent shall supply a list of all reports that can be obtained from their system.

3.3.23. The system shall provide an unlimited amount of user defined polygonal geo fences.

3.3.24. The system shall provide unlimited user logins.

3.3.25. The system shall allow authorized personnel to view the data via standard web browsers.

3.3.26. The system shall allow the users with administration privileges to set up additional users that may include other administrators or just individuals that only have the ability to view data but not edit any settings, or any combination that the end user would require on a per user basis.

3.3.27. The system shall provide a fleet wide setting feature that enables the administrator to set options to apply to the entire fleet. The system shall also allow users privileges to view fleets and reports based on the user’s login profile.

3.3.28. The system shall provide route replay function.

3.3.29. The system may provide a wake-up and check location function. The system should allow the administrator to set a regular interval where the device wakes-up and verifies if off-road equipment has not been moved. If it has been moved, the vehicle reports it has moved through the use of geo fences or other exception reporting. Email alerts will then be sent notifying management that equipment has moved unexpectedly.

3.3.30. Equipment shall have the ability to be transferred from one vehicle to another without any additional costs.

3.4.Optional - Specifications for Snow Equipment:

3.4.1. In addition to those listed in the previous section the Respondent shall describe their interface with Force America and Component Technology ACS Spreader Control Systems and provide all information on the system functionality for each including the data/reports provided.

3.4.2. The system shall provide two (2) digital inputs to monitor various functions as needed. Functions include, but are not limited to, sweeper broom activated, water activated, moldboard up/down, and hoist positions.

3.4.3. The system shall be protected and immune to over-voltage conditions and reverse polarity. The system shall utilize a live 12V/24V connection to the vehicle battery.

3.4.4. To minimize vehicle battery drain, the unit’s typical current draw shall not exceed 9mA during sleep mode (key off).

3.4.5. The system shall allow for configurability of GPS defined by distance, time, angle change, start, and stop.

3.4.6. The system shall allow for configurability of GPRS defined by power up, power down, interval(s), wake-up, and switch change to allow management of the data costs associated with sending information over the air and allow optimization of data costs by determining how often they want to see information about the asset.

3.4.7. The system should have two (2) digital outputs available for configuration.

3.5.Optional – Training to be Provided:

3.5.1. Training for installation shall be provided to Boone County Technicians.

3.5.2. The successful Respondent shall include user website training in their proposal.

3.5.3. On-site training shall be provided to vehicle operators on a date and time approved by the County.

3.5.4. The successful Respondent shall provide paper and electronic copies of the training materials to be used for the initial training as well as to enable future staff training

3.6.Optional - Installation of System:

3.6.1. The price should reflect the cost of the installation of the equipment by the vendor.

3.6.2. At least one (1) unit of each type of equipment shall be installed by the vendor. Cost of installation for all units is desired.

3.6.3. The awarded Respondent shall be responsible for resolution of technical issues during development and implementation prior to the County's final acceptance. Such resolution shall be accomplished at no additional costs to the County.

3.6.4. The system shall be complete, including but not limited to, hardware, mounts connectors, wiring, and software.

3.6.5. The successful Respondent shall provide the County with an Acceptance Test Plan that aligns with and meets all agreed upon system specifications.

3.6.6. The system shall be fully operational and demonstrated in a site test prior to County acceptance.

3.6.7. Workers installing the system shall be paid not less than the prevailing hourly rate of wages, as found by the Department of Labor and Industrial Relations of Missouri. See Section 4.2. Prevailing Wage.

3.6.8. Insurance shall be required should installation of the system be included in the contract. Insurance Requirements are described in Section 4.1.

3.7.Delivery:

3.7.1. The equipment must be received within sixty (60) days of the fully executed contract.

3.7.2. Firm delivery schedules are essential. Respondents shall set forth in their proposal the number of calendar days in which delivery will be fully complete in strict accordance with the specifications on the Response Page. A timely delivery schedule with an installation and training schedule shall be stated on the Response Page.

3.7.3. The delivery terms are FOB Destination with Inside Delivery to designated room. All deliveries shall be made FOB Destination with freight charges included and prepaid. The seller pays and bears the freight charges.

3.8.Warranty:

3.8.1. The proposed system's equipment shall be warranted for a period of one (1) year from the date of acceptance for operation (substantial completion) by the County or County's Representatives.

3.8.2. The equipment shall be warranted to be free from defects in workmanship, design, and materials.

3.8.3. If any equipment should fail during the warranty period, it shall be replaced and the proposed system restored to service at no expense to the Owner.

3.8.4. Warranty shall be handled through a local dealer or representative.

3.8.5. The successful Respondent shall deliver to the Owner or Owner's Representatives, prior to final acceptance for operation of any item of equipment, the manufacturer's written warranty as outlined above.

3.8.6. The manufacturer's warranty period shall run concurrently with the Owner's warranty.

3.8.7. The successful Respondent shall be responsible for obtaining equipment warranties from each of the respective suppliers or manufacturers for the equipment specified.

3.8.8. Manufacturer equipment warranties shall be transferred to the Owner.

3.9.Repair

3.9.1. Respondent shall describe their remote support and on-site support plan including cost of each. It is expected that support will be provided 24 hours per day and 7 days per week.

3.9.2. Respondent shall state the number of years they will maintain a complete stock of all repair components for the proposed MDC/GPS Vehicle Tracking and Fleet Management System after initial delivery. Parts shall be available for same-day shipment, on an expedited basis, 24 hours a day, 365 days a year, including weekends and holidays. The successful Respondent shall provide a letter from the manufacturer in writing that details this requirement and condition as part of the award of the contract.

4. OTHER TERMS AND CONDITIONS

4.1. Insurance Requirements:

4.1.1. Insurance Requirements shall apply if the County includes Section 3.6. Optional – Installation of System in the contract.

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

4.1.3. Employers Liability and Workers Compensation Insurance:

The Contractor shall take out and maintain during the life of this contract Employers Liability and Workers Compensation Insurance for all of its employees employed at the site of work, and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workers Compensation Insurance for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. Workers Compensation coverage shall meet Missouri statutory limits. Employers Liability limits shall be \$500,000.00 each employee, \$500,000.00 each accident, and \$500,000.00 policy limit. In case any class of employees engaged in hazardous work under this Contract at the site of the work is not protected under the Workers Compensation Statute, the Contractor shall provide and shall cause each subcontractor to provide Employers Liability Insurance for the protection of their employees not otherwise protected.

4.1.4. Commercial General Liability Insurance:

The Contractor shall take out and maintain during the life of this contract, such commercial general liability insurance as shall protect it and any subcontractor performing work covered by this contract, from claims for damages for personal & advertising injury, bodily injury including accidental death, as well as from claims for property damages, which may arise from operations under this contract, whether such operations be by themselves or for any subcontractor or by anyone directly or indirectly employed by them. The amounts of insurance shall be not less than \$2,000,000.00 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death. If the Contract involves any underground/digging operations, the general liability certificate shall include X, C, and U (Explosion, Collapse, and Underground) coverage. If providing Commercial General Liability Insurance, then the Proof of Coverage of Insurance shall also be included.

4.1.4.1. Contractor may satisfy the minimum liability limits required for Commercial General Liability or Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum per occurrence limit of liability under the umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "Each Occurrence" limit for either Commercial General Liability or Business Auto Liability. Contractor agrees to include the County as an Additional Insured on the umbrella or Excess Liability, unless the Certificate of Insurance state the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.

4.1.5. Business Automobile Liability:

The Contractor shall maintain during the life of this contract, automobile liability insurance in the amount of not less than \$2,000,000.00 combined single limit for any one occurrence,

covering both bodily injury, including accidental death, and property damage, to protect themselves from any and all claims arising from the use of the Contractor's own automobiles, teams and trucks; hired automobiles, teams and trucks; non-owned and both on and off the site of work.

4.1.6. Subcontractors:

Contractor shall cause each Subcontractor to purchase and maintain insurance of the types and amounts specified herein. Limits of such coverage may be reduced only upon written agreement of County. Contractor shall provide to County copies of certificates of insurance evidencing coverage for each Subcontractor. Subcontractors' commercial general liability and business automobile liability insurance shall name County as Additional Insured and have the Waiver of Subrogation endorsements added.

4.1.7. Proof of Carriage of Insurance:

The Contractor shall furnish the County with Certificate(s) of Insurance which name the County as additional insured in an amount as required in this contract, contain a description of the project or work to be performed and provided for Commercial General Liability, Business Auto Liability, and Umbrella or Excess Liability (not on Workers Compensation). The Certificate of Insurance shall provide that there will be no cancellation, non-renewal or reduction of coverage without thirty (30) days prior written notice to the County. In addition, such insurance shall be on an occurrence basis and shall remain in effect until such time as the County has made final acceptance of the services provided.

4.1.8. Indemnity Agreement:

To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with providing these services. This provision does not, however, require contractor to indemnify, hold harmless, or defend the County of Boone from its own negligence.

4.1.8.1. Failure to maintain the required insurance in force may be cause for contract termination. In the event the Agency/Service fails to maintain and keep in force the required insurance or to obtain coverage from its subcontractors, the County shall have the right to cancel and terminate the contract without notice. The vendor receiving a contract award shall provide an Insurance Certificate to the Purchasing Department at time of contract execution with the following levels of insurance.

4.2. Prevailing Wage:

4.2.1. Prevailing Wage Rates shall apply if the County includes Section 3.6. Optional – Installation of System in the contract.

4.2.2. Not less than the prevailing hourly rate of wages, as found by the Department of Labor and Industrial Relations of Missouri, shall be paid to all workers performing work under this contract. The Contractor shall comply with all requirements of the prevailing wage law of Missouri, Revised Statutes of Missouri, Section 290.210 to 290.340, including the latest amendments thereto. The prevailing wage law does not prohibit payment of more than the prevailing rate of wages nor does it limit the hours of work, which may be performed by any

worker in any particular period of time. Wage Rate Certifications will be submitted for each employee for hours worked and upon completion of the project and prior to payment, contractor will be required to file with the County an affidavit stating that contractor has fully complied with the provisions and requirements of the Prevailing Wage Law. Prevailing Wage Order Number 22 is attached.

4.3. Employment of Unauthorized Aliens Prohibited:

4.3.1. Contractor shall comply with Missouri State Statute Section 285.530 in that they shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. As a condition for the award of this contract, the Contractor shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. The Contractor shall also sign an affidavit affirming that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Please return a copy of the Memorandum of Understanding that you will receive following completion of enrollment. This will provide the County the proof of enrollment.

4.3.2. Contractor shall require each subcontractor to affirmatively state in its contract with Contractor that the subcontractor shall not knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. Contractor shall also require each subcontractor to provide Contractor with a sworn affidavit under the penalty of perjury attesting to the fact that the subcontractor's employees are lawfully present in the United States

4.4. OSHA Program Requirements:

4.4.1. The Contractor is familiar with the requirements of 292.675 RSMo. The Contractor shall provide a ten (10) hour Occupational Safety and Health Administration (OSHA) construction safety program for their on-site employees, subcontractors or others acting on behalf of Contractor on-site which meets the requirements of 292.675 RSMo.

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

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

4.5. Overhead Power Line Safety Act:

4.5.1. The Contractor is aware of the provisions of the Overhead Power Line Safety Act, 319.075 to 319.090 RSMo, and agrees to comply with the provisions thereof. Contractor understands that it is their duty to notify any utility operating high voltage overhead lines and make appropriate arrangements with said utility if the performance of contract would cause any activity within ten feet of any high voltage overhead line. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend the County, its directors, officers, agents, and employees from and against all claims, damages, losses and expenses (including but not

limited to attorney's fees) arising by reason of any act or failure to act, negligent or otherwise, of Contractor, of any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), of anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, in connection with any claims arising under the Overhead Power Line Safety Act. Contractor expressly waives any action for Contribution against the County on behalf of the Contractor, any subcontractor (meaning anyone, including but not limited to consultants having a contract with contractor or a subcontract for part of the services), anyone directly or indirectly employed by contractor or by any subcontractor, or of anyone for whose acts the contractor or its subcontractor may be liable, and agrees to provide a copy of this waiver to any party affected by this provision.

4.6.Sales/Use Tax Exemption:

4.6.1. County will provide the Contractor with a completed Missouri Project Exemption and Missouri Tax Exemption letter for Boone County, Missouri and the Contractor shall be responsible for furnishing the exemption certificate and tax exemption letter to all authorized sub-contractors and suppliers providing materials incorporated in the work. All invoices issued for purchases for such materials, supplies, and taxable rentals shall be in the name of Boone County and contain the project number assigned by Boone County for the contract awarded. It shall be the responsibility of the Contractor to ensure that no sales or use taxes are included in the invoices and that the County pays no sales/use taxes from which it is exempt. The Contractor shall be responsible for obtaining revised exemption certificates and revised expiration dates if the work extends beyond the estimated project completion date or a certificate expiration date. The Contractor shall also be responsible for retaining a copy of the project exemption certificate for a period of five years and for compliance with all other terms and conditions of section 144.062 RSMo. Not otherwise herein specified. The Contractor agrees not to use or permit others to use the project exemption certificate for taxable purchases of materials or rentals and supplies not directly incorporated into or used in the work to which it applies and agrees to indemnify and hold the County harmless from all losses, expenses and costs including litigation expenses and attorney fees resulting from the unauthorized use of such project exemption certificates.

4.7.Subcontractors, Suppliers, and Others:

4.7.1. Contractor shall not employ any Subcontractor, Supplier, or other person or organization, whether initially or as a substitute, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other person or organization to furnish or perform any of the Work against whom the Contractor has a reasonable objection.

4.7.2. If the Owner requires identity of certain Subcontractor, Suppliers, or other persons or organizations (including those who are to furnish the principal items of material and equipment) to be submitted to Owner in advance of the specified date prior to the Effective Date of the Agreement for acceptance by Owner and if Contractor has submitted a list thereof in accordance with the project Specifications, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the Contract Documents) of any such Subcontractor, Supplier, or other person or organization so identified may be revoked on the basis of reasonable objection after due

investigation, in which case Contractor shall submit an acceptable substitute, the Contract Price will be increased by the difference in the cost occasioned by such substitution and an appropriate Change Order will be issued or Written Amendment signed. No acceptance by Owner of any such Subcontractor, Supplier, or other person or organization shall constitute a waiver of any right of Owner to reject defective Work.

4.7.3. Smoking and consumption of alcoholic beverages is PROHIBITED in all County buildings. Any employees of any contractor or subcontractor who does not adhere to Boone County's policies which prohibit the use of tobacco and alcoholic beverages in their facilities will be escorted off the jobsite and may not return. The contractor or subcontractor who the employee is employed will be notified. Further violations could result in the termination of this Contract.

4.7.4. All contractor employees will conduct themselves in a professional manner. Harassment of other construction personnel, owner personnel, or the general public will result in immediate and permanent removal from the project.

4.7.5. Owner reserves the right to require the removal from the site of the Work any employee of the Contractor or any subcontractor if, in the judgment of the Owner, such removal is necessary to protect the interest of the Owner, upon written notice from the Owner.

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

4.7.7. All trash shall be removed from site by the Contractor. In the event a dispute arises among the Contractor and any others as to the responsibility for cleanup, the County Representative may cause the clean up to be done and allocate the costs among the parties responsible for keeping the premises and surrounding area free of accumulation of waste or rubbish. The allocation made by the County Representative shall be binding on the Contractor.

4.7.8. If the Contractor should find it necessary to work hours other than 7:30 a.m. to 4:30 p.m. on Monday through Friday, the Contractor must notify the County Representative at least twenty four (24) hours prior to the start of that work beyond the established times. The request for these additional work hours is subject to approval by the County Representative.

4.7.9. Report all accidents, regardless of how minor, to a County Representative. Provide a detailed incident report for those requiring off-site medical treatment.

4.7.10. It is the Contractor's responsibility to coordinate all applicable permit inspections as required.

4.7.11. The Contractor is to provide a "sequencing plan" to insure that no disruption of existing service occurs. No cutover of new service will be allowed without prior consent of a County Representative.

4.7.12. The County shall have all contractor personnel sign in at the front office each day before coming onto the premise.

5. CONTRACT TERMS AND CONDITIONS

5.1. Contract Period:

5.1.1. The initial term of the resulting contract agreement for the proposed system from this request for proposal shall begin at the time of contract award. The period of award shall be for one (1) year with the possibility of four (4) one-year renewal periods commencing upon the approval of the Boone County Commission and contract execution.

5.2. Transient Employers:

5.2.1. Every transient employer, as defined in Section 285.230 RSMo, must post in a prominent and easily accessible place at the work site a clearly legible copy of the following: (1) the notice of registration for employer withholding issued to such transient employer by the director of revenue; (2) proof of coverage for workers' compensation insurance or self-insurance signed by the transient employer and verified by the department of revenue through the records of the division of workers' compensation; and (3) the notice of registration for unemployment insurance issued to such transient employer by the division of employment security. Any transient employer failing to comply with these requirements shall, under Section 285.234 RSMo, be liable for a penalty of five hundred dollars (\$500.00) per day until the notices required by this section are posted as required by law.

5.2.2. The successful Respondent shall be obligated to enter into a written contract with the County within fifteen (15) days of award on contract forms provided by the County. If Respondent desires to contract under their own written agreement, any such proposed agreement shall be submitted with their response. County reserves the right to modify any proposed form agreement or withdraw its award to a successful Respondent if any proposed agreement contains terms and conditions inconsistent with its request or are unacceptable to county legal counsel.

5.2.3. Provisions for Termination: The contract may be terminated by the County for any of the following reasons or under any of the following circumstances.

5.2.3.1. Due to a material breach of any term or condition of this agreement.

5.2.3.2. If in the opinion of Boone County, deliveries of products/services are delayed or products/services delivered are not in conformity with the contract documents.

5.2.3.3. If appropriations are not made available and budgeted for in any calendar year.

5.2.3.4. Boone County 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 County.

5.2.4. In case of any default by the Contractor, the County may procure the product or service from other sources and hold the Contractor responsible for any damages incurred including, but not limited to, excess cost or handling charge. The County shall have the right to remove any Contractor who defaults on any contract with the County from all Respondents' lists.

5.2.5. The successful Contractor is prohibited from assigning, transferring, conveying, subletting, or otherwise disposing of this agreement or its rights, title or interest therein, or its power to execute such agreement to any other person, company or corporation without the prior consent and approval in writing by the County.

5.2.6. Respondents must clearly state in writing any restrictions or deviations from these specifications. In the absence of such statement, the County will assume that all items/services offered are in strict compliance with the technical and financial requirements, contract terms and

conditions as described in these specifications. The proposal of the Contractor will be included as part of the final contract.

5.2.7. Award will be made by written notification from the Purchasing Director. This written notice shall be deemed to result in a binding contract which shall be governed by the laws of the State of Missouri as adopted and in force on the date of the agreement.

5.2.8. Contractor agrees to furnish services and to perform the project within the stated completion schedule, and in strict compliance with requirements stated in this Request for Proposal document.

5.2.9. Contractor proposes and agrees to accept, as full compensation for furnished services, the price submitted in response to the Request for Proposal document. All related costs associated with providing the services specified shall be considered by both County and Contractor to be included within this quoted price. The county shall not pay, nor be liable for, any additional cost including, but not limited to taxes, insurance, interest, penalties, termination payments, attorney fees, liquidation damages, etc.

5.2.10. Contractor agrees that no modification of any provision contained in the contract shall be made, or construed to be made, unless such modification is mutually agreed to by both parties and incorporated in a written amendment to the contract approved by the Purchasing.

5.2.11. Contractor shall provide and may also be asked to install equipment that meets or exceeds the specifications contained in the Request for Proposal.

5.2.12. The Contractor must provide any additional equipment necessary, at no cost to the County, if the awarded equipment does not meet the specifications outlined in this document. The County shall determine whether the specifications are adequately met.

5.2.13. The attached Standard Terms and Conditions for contracts shall apply to the contract award.

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

5.2.15. Equal Opportunity: The County of Boone is an equal opportunity affirmative action employer, pursuant to federal and state law, and all respondents submitting proposals shall be considered to be EEO/AA employers in compliance with federal and state laws, unless otherwise stipulated by the Respondents herein.

5.2.16. Domestic Purchasing Policy: Contractors are encouraged to select and use materials manufactured, assembled, or produced in the United States in the performance of this contract whenever the quality and price are comparable with other goods. By submission of this proposal, the vendor certifies that they are in compliance with Section 34.353 and, if applicable, Section 34.359 (“Missouri Domestic Products Procurement Act”) of the Revised Statutes of Missouri, 1987.

5.2.17. If a contradiction in the contract documents occurs then the more expensive interpretation shall prevail and be inclusive in that respective contractor’s proposal response.

6. RESPONSE TO PROPOSAL

6.1. Submission of Proposals:

6.1.1. When submitting a proposal, Respondents should include the original and eight (8) copies.

6.1.2. Respondents shall submit the proposal to:

Boone County Purchasing Department
Cheli Haley, Buyer
613 East Ash Street, Room 109
Columbia, MO 65201

6.1.3. Proposals must be delivered no later than 2:00 p.m. on August 31, 2015. Proposals will not be accepted after this date and time.

6.2. Organization of Proposals:

6.2.1. To facilitate the evaluation process, Respondents are encouraged to organize their proposal as described in Section 6.4.

6.2.1.1. Each distinctive section should be titled with paragraph number and all material related to that category should be included therein.

6.2.1.2. The signed response page from the original Request for Proposal and all signed amendments should be placed at the beginning of the proposal response.

6.2.1.3. The Proposal must, at a minimum, address all mandatory and desired services, equipment, materials, etc. Responses will fully described how the service will be performed and what hardware/software (if any) is required at the County to access the service.

6.2.2. Respondents are cautioned that it is the Respondent's sole responsibility to submit information related to the evaluation categories, and that the County is under no obligation to solicit such information if it is not included with the proposal. Respondents' failure to submit such information may cause an adverse impact on the evaluation of the proposal. Any Respondent whose responses deviate from the outlined specifications may automatically be disqualified.

6.2.3. Respondents and their agents (including subcontractors, employees, consultants, or anyone else acting on their behalf) must direct all of their questions or comments regarding the RFP, the evaluation, etc to the buyer of record indicated on the first page of this RFP. Respondents and their agents may not contact any County employee other than the buyer of record regarding any of these matters during the solicitation and evaluation process. Inappropriate contacts are grounds for suspension and/or exclusion from specific procurements. Respondents and their agents who have questions regarding this matter should contact the buyer of record.

6.3. Competitive Negotiation of Proposals:

6.3.1. Respondents are advised that under the provisions of this Request for Proposal, the County reserves the right to conduct negotiations of the proposals received or to award a contract without negotiations. If such negotiations are conducted, the following conditions shall apply:

6.3.1.1. Negotiations may be conducted in person, in writing, or by telephone.

6.3.1.2. Negotiations will only be conducted with potentially acceptable proposals. The County reserves the right to limit negotiations to those proposals that receive the highest rankings during the initial evaluation phase.

6.3.1.3. Terms, conditions, prices, methodology, or other features of the Respondent's proposal may be subject to negotiation and subsequent revision. As part of the negotiations, the Respondent may be required to submit supporting financial, pricing, and other data in order to allow a detailed evaluation of the feasibility, reasonableness, and acceptability of the proposal.

6.3.1.4. The mandatory requirements of the Request for Proposal shall not be negotiable and shall remain unchanged unless the County determines that a change in such requirements is in the best interest of the entities.

6.4.Evaluation and Award Process:

6.4.1. Boone County has selected an evaluation team to review responses and to make a formal recommendation for award to the County Commission. After determining a responsible Respondent and a responsive proposal through the determination that the proposal satisfies the mandatory requirements stated in the Request for Proposal, the evaluation team will use both objective analysis and subjective judgment in conducting a comparative assessment of the proposal in accordance with the evaluation criteria stated as follows: a) Method of Performance; b) Experience/Expertise; c) Cost

6.4.2. After an initial evaluation process, a question and answer interview may be conducted with the Respondent, if deemed necessary by the County. In addition, the County may request to visit sites where proposed equipment is in operation. Respondent may be asked to make an oral presentation of their proposal to the evaluation team at a designated Boone County location. Attendance cost shall be at the Respondent's expense. All arrangements and scheduling will be coordinated by the County.

6.4.3. Experience and reliability of the Respondent's organization are considered subjectively in the evaluation process. Therefore, Respondents are advised to submit any information which documents successful and reliable experience in past performances, especially those performances related to the requirements of this Request for Proposal.

6.4.4. Respondents are required to have been in the business at least two (2) years and must provide five (5) references from clients whose systems were installed within the last five (5) years.

6.4.5. Respondents should provide the following information related to previous and current services/contracts performed by the Respondent's organization and any proposed subcontractors which are similar to the requirements of this Request for Proposal. At a minimum the Respondent shall include:

- a) Name, address, and telephone number of five (5) client/contracting agencies and a representative of each who may be contacted for verification of all information submitted;
- b) Dates and locations of the service/contract; and
- c) A brief, written description of the specific equipment installed and prior services performed and requirements thereof.

6.4.6. Respondents should submit a copy of all licenses, certifications, accreditation, and/or permits, which may be required by state, federal, and/or local law, statute, or regulation in the course of conduct of the Respondent's business. If not submitted with the proposal, the County

reserves the right to request and obtain a copy of any license or certification required to perform the defined services prior to contract award.

6.4.7. Respondents shall provide a list of qualifications of the Respondent and/or the staff of the Respondent's organization who will be involved in the project. List shall include number of certified technicians and levels of experience on the proposed system and state how many miles they are located from Boone County.

6.4.8. Proposals will be subjectively evaluated based on the Respondent's distinctive plan for performing the requirements of the RFP. Therefore, Respondents should present a written narrative, which demonstrates the method or manner in which the Respondent proposes to satisfy these requirements. The language of the narrative should be straightforward and limited to facts, solutions to problems, and plans of action.

6.4.9. Where the words "shall" or "must" are used, they signify a required minimum function of system capacity that will heavily impact the Respondent's final response rating.

6.4.10. Where the words "should", "may" or "desired" are used, they signify that the feature or capacity is desirable but not mandatory; therefore, the specifications in question will possess minimal impact on the Respondent's final response rating.

6.4.11. The method by which the proposed method of performance is written will be left to the discretion of the Respondent. However, Respondents should address each specific paragraph and subparagraph of the Specifications by paragraph and page number as an item for discussion. Immediately below these numbers, write descriptions of how, when, by whom, with what, to what degree, why, where, et cetera, the requirements will be satisfied.

6.5.Rejection / Withdrawal of Response to Proposal:

6.5.1. The County reserves the right, at its discretion, to reject any or all proposals or parts thereof. The County reserves the right to waive defects or informalities, to negotiate with Respondents and to accept the proposal deemed to be in the best interest of the County.

6.5.2. Proposals may be withdrawn on written request from the Respondent at the address shown in the solicitation prior to the time of acceptance. Negligence on the part of the Respondent in preparing the proposal confers no right of withdrawal after the time fixed for the acceptance of the proposals.

6.6.Validity of Proposal Response:

6.6.1. Respondents agree that proposals will remain firm for a period of ninety (90) calendar days after the date specified for the return of proposals.

7. RESPONSE / PRICING PAGE

In compliance with this Request for Proposal and subject to all the conditions thereof, the Respondent agrees to furnish the services/equipment/supplies requested and proposed and certifies he/she has read, understands, and agrees to all terms, conditions, and requirements of this proposal and is authorized to contract on behalf of the Respondent named below. Note that this form must be signed and that all signatures must be originals.

Company Name: _____

Address: _____

Telephone: _____ Facsimile: _____

Email: _____

Federal Tax ID (or Social Security Number): _____

Print Name: _____ Title: _____

Signature: _____ Date: _____

7.1. Pricing:

The County is providing this Response Form for summarized pricing. Please attach a more detailed listing outlining the equipment, labor, installation, set-up, testing, and training with all costs. Costs shall include cost of equipment, add-on features cost, software cost (if applicable), training cost, labor, a minimum of five (5) years of renewal for equipment maintenance broken out per year, warranty, and any other costs. Fee proposal shall include full itemized pricing information. As appropriate, items should include professional fees, materials, out of pocket expenses, sub-consultant fees, and any other costs anticipated by the Respondent to satisfy the purpose of this Request for Proposal.

Any list of equipment is provided for informational purposes. Respondent shall price one of the identified acceptable models within or price an approved equal. Determination of equality is solely Boone County's responsibility. Please attach itemized pricing with brand and model numbers.

	Description		
7.1.1.	Base Price: MDC/GPS System for Large Trucks, Equipment, and Other County Owned Vehicles	\$	Price Per Vehicle
7.1.2.	Add Option 1: Snow Equipment	\$	Price Per Equipment
7.1.3.	Recurring Fees: Data or subscription plans	\$	Per Month
7.1.4.	Delivery Time: Number of calendar days in which delivery will be complete following receipt of order		Calendar Days
7.1.5.	Add Option 2: Training Session	\$	Per Session

7.1.6.	Training Time: Number of calendar days allowed for training for receipt of order		Calendar Days
7.1.7.	Add Option 3: Installation	\$	
7.1.8.	Installation Time: Number of calendar days in which installation will be complete following receipt of order	\$	Calendar Days

7.2. Describe Warranty on equipment and labor (or attach description):

7.3. List any deviations to the required specifications/scope of work:

7.4. List all sub-contractors that will be utilized on this project (if any):

7.5. Provide a contract person who will be responsible for coordinating the efforts and personnel of all parties involved in the response, to include, but not be limited to, oral presentations, demonstrations, site visits, and responses to request for clarification, if any. Provide the following:

Name: _____

Organization: _____

Address: _____

Phone: _____ Facsimile: _____

E-Mail: _____

8. ATTACHMENTS

- a) Statement of Respondent's Qualifications and Prior Experience
- b) Respondent's Acknowledgment
- c) Instructions for Compliance with House Bill 1549 and Work Authorization Certification
- d) Certification of Individual Respondent and Individual Affidavit
- e) Signature and Identity of Respondent
- f) Certification Regarding Debarment
- g) Anti-Collusion Statement
- h) Affidavit of Compliance with the Prevailing Wage Law (*Awarded Contractor returns at completion of project*)
- i) Affidavit of Compliance with OSHA (*Awarded Contractor returns at completion of project*)
- j) Standard Terms and Conditions
- k) "No Bid" Response Form
- l) Annual Wage Order No. 22

STATEMENT OF RESPONDENT'S QUALIFICATIONS

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

1. Name of Respondent: _____

2. Business Address: _____

3. When Organized: _____

4. When Incorporated: _____

5. List Federal Tax ID or SS Number: _____. If not incorporated, state type of business (sole proprietor, partnership, or other): _____

6. Number of years engaged in business under present firm name: _____

7. If you have done business under a *different name*, please give name and business location under that name: _____

8. Percent of work done by own staff: _____

9. Have you ever failed to complete any work awarded to your company?
 Yes No
If yes, where and why? _____

10. Have you ever defaulted on a contract or been in litigation for services performed?
 Yes No
If so, give details: _____

11. List of projects currently in progress: _____

12. List of contracts *with contact information*, completed within the last five (5) years, for similar services as described in this proposal, including value of each: *Form provided on next page.*

*** Attach additional sheets as necessary ***

PRIOR EXPERIENCE

Include references familiar with your company's work performance. References of similar services for governmental agencies are preferred.

1. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

2. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

3. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

4. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

5. Prior Equipment and/or Services Provided for:

Company Name:

Address:

Contact Name:

Telephone Number:

Date of Contract:

Length of Contract:

Description (include type, Mfr/Brand of equipment, service performed):

RESPONDENTS ACKNOWLEDGMENT

STATE OF _____)
) ss
COUNTY OF _____)

On this _____ day of _____, 2015, before me appeared

_____, to me personally known, who being first duly sworn by me, did say that he/she executed the foregoing Request for Proposal with full knowledge and understanding of all its terms and provisions and of the plans and specifications; that the correct legal name and address of the Respondent, including those of all partners of joint ventures, is fully and correctly set out above; that all statements made therein by or for the Respondent are true; and

(if a sole individual) acknowledged that he/she executed the same as his/her free act and deed.

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

(if a corporation) that he/she is the _____ of
President or Other Agent
_____; that the foregoing Request for Proposal was signed
Name of Corporation
and sealed in behalf of said corporation by authority of its board of directors; and he/she acknowledged said Proposal to be the free act and deed of said corporation.

In witness whereof, I hereunto set my hand and official seal at _____,
_____ the day and year first above written.

Notary Public

(Seal)

My commission expires: _____

(Complete and fill out all parts applicable. Strike out all parts not applicable)

INSTRUCTIONS FOR COMPLIANCE WITH HOUSE BILL 1549

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

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

<http://www.uscis.gov/e-verify>

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

CERTIFICATION OF INDIVIDUAL RESPONDENT

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

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

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

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

Applicant	Date	Printed Name
-----------	------	--------------

SIGNATURE AND IDENTITY OF RESPONDENT

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

- Sole Individual Partnership LLC
- Corporation, incorporated under laws of the State of _____
- Other: _____

Name of individual, all partners,
or joint venturers:

Address of each:

doing business under the name of:

(If using a fictitious name, show this name
Above in addition to legal names)

Address of principal place of business
in Missouri

(If a corporation, show its name above)

Address of principal place of business
in Missouri

ATTEST:

Signature

Dated _____, 20__

Print Name and Title

NOTE:

If the Respondent is doing business under a FICTITIOUS NAME, the Proposal shall be executed in the legal name of the individual, partners, LLC, or corporation, with the legal address shown, and the REGISTRATION OF FICTITIOUS NAME filed with the Secretary of State, as required by RSMo Secs. 417.200 - 417.230 shall be attached.

If the Respondent is a CORPORATION NOT ORGANIZED UNDER THE LAWS OF MISSOURI, it shall procure a CERTIFICATE OF AUTHORITY TO DO BUSINESS IN MISSOURI, as required by RSMo Secs. 351.570 et seq.

A CERTIFIED COPY of such Registration of Fictitious Name or Certificate of Authority to do Business in Missouri shall be returned with the Respondent's Proposal.

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).

(READ INSTRUCTIONS BEFORE COMPLETING 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.

Print Name and Title of Authorized Representative

Signature

Date

(Please complete and return with Proposal)

AFFIDAVIT OF COMPLIANCE WITH THE PREVAILING WAGE LAW

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

State of _____, personally came and appeared (name and title)

_____ of the (name of company)

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

(name of project) _____ located at

(name of institution) _____ in _____ County,

Missouri and completed on the _____ day of _____, 20_____.

Signature

Subscribed and sworn to me this _____ day of _____, 20_____.

My commission expires _____, 20_____.

Notary Public

STANDARD TERMS AND CONDITIONS - BOONE COUNTY, MISSOURI

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

12. No bid transmitted by fax machine or e-mail will be accepted.
13. The County of Boone, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is accepted by the County.
14. The County reserves the right to award to one or multiple respondents. The County also reserves the right to not award any item or group of items if the services can be obtained from a state or other governmental entities contract under more favorable terms.
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.



BOONE COUNTY PURCHASING
613 East Ash Street, Room 109
Columbia, MO 65201

NO BID RESPONSE FORM

Cheli Haley
Buyer

Phone: (573)886-4392

Fax: (573)886-4390

chaley@boonecountymmo.org

PROPOSAL INFORMATION:

RFP Number: 48-31AUG15

RFP Title: MDC/GPS Vehicle Tracking and Fleet Management System

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

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

Business Name: _____

Address: _____

Telephone: _____

Contact: _____

Date: _____

Reason(s) for not bidding:

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

In the County Commission of said county, on the

24th

day of

November 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 attached Contract Amendment Number One to 47-23OCT14 – Records Shredding and Disposal Services.

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 One.

Done this 24th day of October, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill

Presiding Commissioner

Karen M. Miller
Karen M. Miller

District I Commissioner

Janet M. Thompson
Janet M. Thompson

District II Commissioner

558-2015

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, CPPO, CPPB
DATE: February 6, 2015
RE: Amendment Number One – 47-23OCT14 – Records Shredding and Disposal Services

Contract 47-23OCT14 – *Records Shredding and Disposal Services* was approved by commission for award to Data Retention Services of Columbia, MO on December 18, 2014, commission order 584-2014. This amendment clarifies that paper recycling is \$300 per month for up to 300 containers traded-out per year. Additional container trade-outs beyond 300 will be billed at \$12.00 per pick-up.

Invoices for recycled paper will be paid from department 1190 – Non-Departmental, account 83160 – Recycling & Dump Fees.

cc: Contract File

**CONTRACT AMENDMENT #1
RECORDS SHREDDING AND DISPOSAL- TERM & SUPPLY
#47-23OCT14**

Contract 47-23OCT14 dated December 18, 2014 made by and between Boone County, Missouri and Data Retention Services, Inc., for and in consideration of the performance of the respective obligations of the parties set forth herein, is amended as follows:

The following items are ADDED to this contract:

1. Paper Recycling: \$300.00 / month / for up to 300 containers traded-out per year. Additional container trade-outs beyond 300 will be billed at \$12.00 per pick-up. Containers provided free of charge. Unbaled cardboard will continue to be picked up for recycle.
2. Contractor agrees that all shredded paper is recycled.
3. Contract is renewed for the period November 1, 2015 through October 31, 2016.

Except as specifically amended herein, all other terms, conditions and provisions of the original agreement 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.

DATA RETENTION SERVICES, INC.
 by [Signature]
 title President

BOONE COUNTY, MISSOURI
 by: Boone County Commission
[Signature]
 Daniel K. Atwill, Presiding Commissioner

APPROVED AS TO FORM:
[Signature]
 County Counselor

ATTEST:
[Signature]
 Wendy S. Noren, 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.)

Shredding - Term and Supply
Paper & Cardboard Recycling: \$300/month

[Signature] by [Signature] 11/16/2015
 Signature Date Appropriation Account

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

November Session of the October Adjourned

Term. 20 15

County of Boone

} ea.

In the County Commission of said county, on the

24th

day of

November

20

15

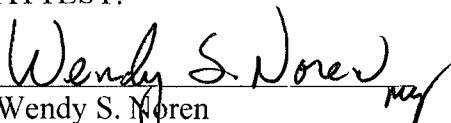
the following, among other proceedings, were had, viz:

Now on this day the County Commission of the County of Boone does hereby approve the following budget revision for the Prosecuting Attorney to cover added costs of homicide trials in 2015.

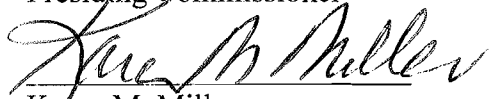
Department	Account	Department Name	Account Name	Decrease \$	Increase \$
1123	86800	Emergency & Contingency	Emergency	11,000	
1262	84600	Victim Witness	Court Costs		500
1262	84700	Victim Witness	Witness Expense		5,500
1262	84800	Victim Witness	Transcripts		5,000


Done this 24th day of November, 2015.

ATTEST:


 Wendy S. Noren
 Clerk of the County Commission


 Daniel K. Atwill
 Presiding Commissioner


 Karen M. Miller
 District I Commissioner


 Janet M. Thompson
 District II Commissioner

REQUEST FOR BUDGET REVISION

BOONE COUNTY, MISSOURI

RECEIVED

10/23/2015
EFFECTIVE DATE

FOR AUDITORS USE

OCT 26 2015

Department				Account				BOONE COUNTY AUDITOR Department Name		Account Name		(Use whole \$ amounts)	
												Transfer From	Transfer To
										Decrease	Increase		
1	1	2	3	8	6	8	0	0	Emergency & Contingency	Emergency	11,000.00		
1	2	6	2	8	4	6	0	0	Victim Witness	Court Costs		500.00	
1	2	6	2	8	4	7	0	0	Victim Witness	Witness Expense		5500.00	
1	2	6	2	8	4	8	0	0	Victim Witness	Transcripts		5000.00	

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 necessary): **Cover cost of homicide trials in 2015**

COVER TRIAL COSTS

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

Daniel K Knight

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:

[Signature]

Auditor's Office

Agenda

[Signature] *[Signature]* *[Signature]*

PRESIDING COMMISSIONER DISTRICT I COMMISSIONER DISTRICT II COMMISSIONER

Emergency Funds Estimate 2015

Attorney	Transcripts	Meals	Travel/Mileage	Lodging	Labs
Andrea Hayes		\$ 50.00	\$ 250.00		
Brouck Jacobs	\$ -	\$ -	\$ -	\$ -	\$ -
Cassandra Rogers	\$ 750.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00
Cecily Daller			\$ 1,000.00	\$ 500.00	
Jennifer Rodewald		\$ 250.00	\$ 250.00		
Jessica Caldera	\$ 750.00				
Merilee Crockett	\$ 250.00				
Roger Johnson	\$ 500.00	\$ 250.00	\$ 300.00	\$ 275.00	
Ryan Redmon	\$ 250.00				
Spencer Bartlett	\$ 250.00				
Stephanie Morrell	\$ 500.00				
Tracy Gonzalez	\$ 750.00	\$ 500.00	\$ 750.00	\$ 500.00	
	\$ 4,000.00	\$ 1,550.00	\$ 3,050.00	\$ 1,775.00	\$ 500.00
Total	\$ 10,875.00				

LEDGER YEAR	DEPT	Department Name	ACCOUNT CLASS	ACCOUNT	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	ACTUAL REV/EXP	REMAINING BALANCE
2015	1262	VICTIM WITNESS	20000	22500	SUBSCRIPTIONS/PUBL	132.00	132.00	38.83	93.17
	1262	VICTIM WITNESS		23000	OFFICE SUPPLIES	2,300.00	2,300.00	2,227.37	72.63
	1262	VICTIM WITNESS		23001	PRINTING	320.00	320.00	.00	320.00
	1262	VICTIM WITNESS		23050	OTHER SUPPLIES	250.00	250.00	.00	250.00
	1262	VICTIM WITNESS		23850	MINOR EQUIP & TOOL	750.00	300.00	.00	300.00
					TOTAL	3,752.00	3,302.00	2,266.20	1,035.80
2015	1262	VICTIM WITNESS	30000	37000	DUES & PROF CERTIF	475.00	625.00	606.00	19.00
	1262	VICTIM WITNESS		37200	SEMINARS/CONFEREN/	435.00	435.00	435.00	.00
	1262	VICTIM WITNESS		37220	TRAVEL (AIRFARE, M	93.00	393.00	345.13	47.87
	1262	VICTIM WITNESS		37230	MEALS & LODGING-TR	705.00	705.00	718.91	13.91-
					TOTAL	1,708.00	2,158.00	2,105.04	52.96
2015	1262	VICTIM WITNESS	40000	48000	TELEPHONES	1,600.00	1,600.00	1,147.17	452.83
					TOTAL	1,600.00	1,600.00	1,147.17	452.83
2015	1262	VICTIM WITNESS	80000	84010	RECEPTION/MEETINGS	4,925.00	4,925.00	3,512.07	1,412.93
	1262	VICTIM WITNESS		84600	COURT COSTS	2,500.00	2,500.00	2,374.06	125.94
	1262	VICTIM WITNESS		84700	WITNESS EXPENSES	7,000.00	7,000.00	7,424.08	424.08-
	1262	VICTIM WITNESS		84800	TRANSCRIPTS-CRIMIN	5,000.00	5,000.00	5,166.53	166.53-
					TOTAL	19,425.00	19,425.00	18,476.74	948.26
					TOTAL	26,485.00	26,485.00	23,995.15	2,489.85

*** END OF REPORT ***

Mike Yaquinto - Emergency Funds Request

From: Bonnie Adkins
To: Mike Yaquinto
Date: 11/4/2015 9:45 AM
Subject: Emergency Funds Request

Good morning Mike,

Will you please put our emergency funds request on the Commission Agenda for November 19th at 1:30?

Please let me know if you have any questions.

Bonnie Adkins
Boone County Prosecutor's Office
Office Administrator
705 E. Walnut Street
Columbia, Missouri 65201
573-886-4112
573-886-4148 (Fax)
badkins@boonecountymmo.org

This email may contain confidential and/or privileged information. If you are not the intended recipient (or have received this email in error), please notify the sender immediately and destroy this email. Any unauthorized copying, disclosure, or distribution of the material in this email is strictly forbidden.

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

November Session of the October Adjourned

Term. 20 15

In the County Commission of said county, on the 24th day of November 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 13th Judicial Circuit to increase revenue and expenditures for the Fostering Court Improvement JCIP sub-grant for the period 10/15/2015 – 12/31/2015.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
1243	3451	Judicial Grants	State Reimbursement		250
1243	37230	Judicial Grants	Meals		250

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill

Daniel K. Atwill
Presiding Commissioner

Karen M. Miller

Karen M. Miller
District I Commissioner

Janet M. Thompson

Janet M. Thompson
District II Commissioner

REQUEST FOR BUDGET AMENDMENT

BOONE COUNTY, MISSOURI


10/22/15

EFFECTIVE DATE

FOR AUDITORS USE

Department				Account					Department Name	Account Name	(Use whole \$ amounts)	
											Decrease	Increase
1	2	4	3	0	3	4	5	1	Judicial Grants	State Reimbursement		250.00
1	2	4	3	3	7	2	3	0	Judicial Grants	Meals		250.00

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 Fostering Court Improvement JCIP Sub-Grant for the period 10/15/15 – 12/31/15.**



 Requesting Official

TO BE COMPLETED BY AUDITOR'S OFFICE

- A schedule of previously processed Budget Revisions/Amendments is attached.
- A fund-solvency schedule is attached.
- Comments: *FCI JCIP Sub-Grant*

10

 Auditor's Office

Agenda



 PRESIDING COMMISSIONER



 DISTRICT I COMMISSIONER



 DISTRICT II COMMISSIONER

BUDGET AMENDMENT PROCEDURES

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

1243 Judicial Grants & Contracts
Fostering Court Improvement Grant
Calculations for Budget Amendment
October 15, 2015- December 31, 2015

	37230 - Meals	03451- State Reimburse- ment
October - December 2015 Exp. Estimate:	<u>\$ 250.00</u>	<u>\$ 250.00</u>
2015 Budget Amendment Expenditure Amounts:	\$ 250.00	<u>\$ 250.00</u>
2015 Budget Amendment Revenue Amounts:	\$ 250.00	<u>\$ 250.00</u>

Grant Award:	
Oct.-Dec 2015	\$250.00
Jan-Sept. 2016	<u>\$750.00</u>
Total Grant Award:	<u><u>\$1,000.00</u></u>

1243 Judicial Grants & Contracts
 Fostering Court Improvement Grant
 Calculations for Budget Amendment
 January 1, 2016- September 30, 2016

	37230 - Meals	03451-State Reimburse- ment
January - September 2016 Exp Estimate:	<u>\$ 750.00</u>	<u>\$ 750.00</u>
2016 Budget Amendment Expenditure Amounts:	\$ 750.00	<u>\$ 750.00</u>
2016 Budget Amendment Revenue Amounts:	\$ 750.00	<u>\$ 750.00</u>

Grant Award:	
Oct.-Dec 2015	\$250.00
Jan-Sept. 2016	<u>\$750.00</u>
Total Grant Award:	<u><u>\$1,000.00</u></u>



State of Missouri
Office of State Courts Administrator
Administrative Services Division

Issue Date

October 15, 2015

Award Amount

\$1,000.00

Contract PeriodOctober 15, 2015 to
September 30, 2016**Fostering Court Improvement JCIP Sub-grant**

The Fostering Court Improvement sites are measured on pre-determined outcomes to include permanency, timeliness and child safety measures. Funding is provided to assist in the implementation of strategies to improve services and outcomes for children.

Contract Number

OSCA 16-015-03



Original Contract



Contract Amendment

Federal CFDA # 93.586

Court/Recipient Information:

The Honorable Christine Carpenter
Presiding Judge
Thirteenth Judicial Circuit
705 East Walnut
Columbia, Missouri 65201

Project Director:

Angie Jaco
Deputy Juvenile Officer
Thirteenth Judicial Circuit
705 East Walnut
Columbia, Missouri 65201

OSCA Program Contact

Kim Abbott
573-522-6768

OSCA Fiscal Contact

Shelly Peters
573-522-2751

 Special Conditions of this award are attached. There are no special conditions of this award. Original RFP requirements only.

Funding to cover meals for monthly meetings to ensure more participation. Meetings include attorney round table luncheons with Children's Division, Juvenile Office staff and Guardian ad Litem. The meetings gives time to evaluate goals and objectives to determine what has worked and what needs to be changed.

Requested Funding: \$1,000.00

Awarded Funding: \$1,000.00

Please Sign, Date and Return by Mail to:

Office of State Courts Administrator
Attn: Contracts Unit
P.O. Box 104480
Jefferson City, MO 65110 - 4480

In witness thereof, the parties below hereby execute this agreement.

Appointing Authority Signature

Mary Epping

Printed Name

Mary Epping

Date

10/15/15

OSCA Signature

Earl Kraus

Printed Name

Earl Kraus

Presiding Judge Signature

Christine Carpenter

Title

Deputy State Courts Administrator

Printed Name

Christine Carpenter

Date

10/15/15

Date

10/15/2015

Fostering Court Improvement JCIP Sub-grant: Local Court Enhancements (FY16)

The Fostering Court Improvement sites are measured on pre-determined outcomes including permanency, timeliness, and child safety measures. In addition, the Children's Division Quality Assurance Specialists provide child welfare data to the local project sites. Strategies are then developed to address areas of deficiency which are identified in the outcome measurements. Funding is available **up to \$1000** for each of the project sites to assist them in their ability to implement strategies to improve services and outcomes for children and families. Each site will be required to submit a funding request on this form, along with budgets and justification, for their request in terms of the child welfare goals they hope to achieve and how the funding will support such. Reimbursement would be made in accordance with approved budgets, within OSCA Financial Guidelines, after costs have been incurred.

Budget Request

1. Please break down your funding request:

Budget Line Item	Approximate Cost	Budget Line Item	Approximate Cost
a. Lunches	\$1000	e.	
b.		f.	
c.		g.	
d.		h.	

2. Total Budget Request \$ 1000

3. Specific County to be reimbursed: Boone

Justification (attach additional sheets, if necessary)

1. How will this funding enhance your courts ability to meet outcomes for children and families?

The Fostering Court Improvement team meets monthly. In order to ensure good participation from stakeholders, we meet over lunch right after Court. We use the funds in our budget to provide lunches during those meetings. We have up to 25 people present at most meetings. We review goals, and adjust our goals and committees as needed. We have identified certain areas we need to improve, including the need to decrease the number of days kids are staying in out-of-home care. Recently, we have reviewed a report that shows we were able to reunify kids with parents on an average of 284 days. We did have two cases that were considered "outliers", due to extenuating circumstances, those two kids were in care much longer than average. Once those cases were adjusted for, our cases reunified in well under a year. We've also identified that cases with a guardianship goal have not been achieving permanency in an acceptable time period. We have developed a committee to explore the reasons for that, and are working to develop protocol to change the goal to guardianship earlier, if appropriate.

2. Provide a timeline and description of how the funding will be used.

(Funding must be spent prior to September 30, 2016 and OSCA must be billed prior to October 9, 2016.)

Providing lunches for monthly FCI meetings, as well as quarterly contract attorney round table meetings. FCI lunches will be provided November 2015-September 2016, as well as quarterly contract attorney round table meetings in December 2015, March 2016, June 2016, and September 2016.

For OSCA Internal Use Only		Yes	No
1. Does this request fall within the scope of the Fostering Court Improvement Program?			
2. Does this request meet the requirements of the DHHS-ACF requirements for uses of these grant funds?			
3. Is it clear that funding will be expended by September 30, 2016 and billed to OSCA before October 9, 2016?			
4. Are there any special terms or conditions attached to this award?			
Authorization (please both sign and print your name)			
Circuit 13 th	Signature - Presiding Judge <i>Christine Cozart</i>	Date 9-29-15	
OSCA OSCA 16-015-03	Deputy State Courts Administrator <i>Eric Blum</i>	Date 10/15/2015	

Return to:

Office of State Courts Administrator, Contracts Section
2112 Industrial Drive, P.O. Box 104480, Jefferson City, MO 65110

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

November Session of the October Adjourned

Term. 20 15

County of Boone

} ea.

In the County Commission of said county, on the

24th

day of

November

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 13th Judicial Circuit for the implementation of juvenile justice programming assistance for delinquent youth for the period July 1, 2015 to December 31, 2015.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
1243	3451	Judicial Grants	State Reimbursement		12,473
1243	23050	Judicial Grants	Other Supplies		2,995
1243	23400	Judicial Grants	Food		1,013
1243	71100	Judicial Grants	Outside Services		6,084
1243	71600	Judicial Grants	Equipment Lease		2,381

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
 Wendy S. Noren
 Clerk of the County Commission

Daniel K. Atwill
 Daniel K. Atwill
 Presiding Commissioner

Karen M. Miller
 Karen M. Miller
 District I Commissioner

Jaret M. Thompson
 Jaret M. Thompson
 District II Commissioner

REQUEST FOR BUDGET AMENDMENT

BOONE COUNTY, MISSOURI

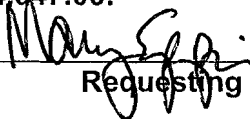
10/26/15

EFFECTIVE DATE

FOR AUDITORS USE

Department				Account					Department Name	Account Name	(Use whole \$ amounts)	
											Decrease	Increase
1	2	4	3	0	3	4	5	1	Judicial Grants	State Reimb. - Grant		\$12,473.00
1	2	4	3	2	3	0	5	0	Judicial Grants	Other Supplies		\$2,995.00
1	2	4	3	2	3	4	0	0	Judicial Grants	Food		\$1,013.00
1	2	4	3	7	1	1	0	0	Judicial Grants	Outside Services		\$6,084.00
1	2	4	3	7	1	6	0	0	Judicial Grants	Equipment Lease		\$2,381.00

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): **This funding through OSCA will be for the implementation of juvenile justice programming assistance for delinquent youth who can be diverted from secure detention by use of the objective screening instrument Juvenile Detention Assessment into a non-secure pre-adjudication placement. This amount is for 7/1/15 through 12/31/15 expenditures and revenue. This grant runs from July 1, 2015 – June 30, 2016. Total amount awarded: \$24,947.00.**


Requesting Official

TO BE COMPLETED BY AUDITOR'S OFFICE

- A schedule of previously processed Budget Revisions/Amendments is attached.
- A fund-solvency schedule is attached.
- Comments: *Juvenile Justice Program Assistance*


Auditor's Office

Agenda


PRESIDING COMMISSIONER


DISTRICT I COMMISSIONER


DISTRICT II COMMISSIONER

BUDGET AMENDMENT PROCEDURES

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

1243 Judicial Grants & Contracts
 Juvenile Justice Programming Assistance
 Calculations for Budget Amendment
 July 1, 2015 - December 31, 2015

	23050- Other Supplies	23400- Food	71100- Outside Services	71600- Equipment Lease	Total
July - December 2015	\$2,995.00	\$ 1,013.00	\$ 6,084.00	\$ 2,381.00	<u>\$12,473.00</u>
2015 Budget Amendment Expenditure Amounts:					\$12,473.00
2015 Budget Amendment Revenue Amounts:					\$12,473.00

Grant Award:	
July - December 2015	\$12,473.00
Jan. - June 2016	<u>\$12,474.00</u>
Total Grant Award:	<u>\$24,947.00</u>

1243 Judicial Grants & Contracts
 Juvenile Justice Programming Assistance
 Calculations for Budget Amendment
 January 1, 2016 - June 30, 2016

	23050- Other Supplies	23400- Food	71100- Outside Services	71600- Equipment Lease	Total
January-June 2016	\$2,995.00	\$ 1,013.00	\$ 6,085.00	\$ 2,381.00	<u>\$12,474.00</u>
2016 Budget Amendment Expenditure Amounts:					\$12,474.00
2016 Budget Amendment Revenue Amounts:					\$12,474.00

Grant Award:

July - December 2015	\$12,473.00
Jan. - June 2016	<u>\$12,474.00</u>
Total Grant Award:	<u>\$24,947.00</u>



State of Missouri
Office of State Courts Administrator
Administrative Services Division

Issue Date	Award Amount
July 9, 2015	
Contract Period	\$24,946.75
7/1/2015 to 6/30/2016	

Juvenile Justice Program Assistance

The Family Court Committee of the Supreme Court of Missouri, in cooperation with the Circuit Court Budget Committee has approved and provided funding for the implementation of juvenile justice programming assistance for delinquent youth who can be diverted from secure detention by use of the objective screening instrument Juvenile Detention Assessment (JDTA) into a non-secure;pre-adjudication placement.

Contract Number	<input checked="" type="checkbox"/> Original Contract
OSCA 16-003-07	<input type="checkbox"/> Contract Amendment

Court/Recipient Information:	Project Director:	OSCA Program Contact
The Honorable Christine Carpenter Presiding Judge Thirteenth Judicial Circuit 705 East Walnut Street Columbia, MO 65201	Courtney Pulley Supervisor Thirteenth Judicial Circuit 705 East Walnut Street Columbia, MO 65201	Jay Rodieck 573-522-2043
		OSCA Fiscal Contact
		Shelly Peters 573-522-2751

Special Conditions of this award are attached. There are no special conditions of this award. Original RFP requirements only.

Funding provided to assist with Intensive Crisis Intervention Services, In-Home Monitoring Services, Shelter Care Services and Evening Reporting Center program for the Thirteenth Judicial Circuit.

Requested Funding: \$24,946.00 Awarded Funding: \$24,946.75

Please Sign, Date and Return by Mail to:

Office of State Courts Administrator
Attn: Contracts Unit
P.O. Box 104480
Jefferson City, MO 65110 - 4480

In witness thereof, the parties below hereby execute this agreement

Appointing Authority Signature		OSCA Signature	
<i>Mary Eppang</i>		<i>Earl Kraus</i>	
Printed Name	Date	Printed Name	
Mary Eppang	7/13/15	Earl Kraus	
Presiding Judge Signature		Title	
<i>Christine Carpenter</i>		Deputy State Courts Administrator	
Printed Name	Date	Date	
CHRISTINE CARPENTER	7-14-15	7/14/2015	



SUPREME COURT OF MISSOURI
OFFICE OF STATE COURTS ADMINISTRATOR

KATHY S. LLOYD
STATE COURTS
ADMINISTRATOR

2112 Industrial Drive
P.O. Box 104480
Jefferson City, Missouri
65110

PHONE (573) 751-4377
FAX (573) 522-6152

July 9, 2015

The Honorable Christine Carpenter
Presiding Judge
Thirteenth Judicial Circuit
705 East Walnut Street
Columbia, MO 65201

Dear Judge Carpenter:

On behalf of the Family Court Committee, I am pleased to announce the award of funding for the Juvenile Justice Program Assistance. The Thirteenth Judicial Circuit has been awarded \$24,946.75 to assist with the Intensive Crisis Intervention, In-home Monitoring, Shelter Care and Evening Reporting Center Programs for FY16 under contract OSCA 16-003-07.

Funds are available to your court per the terms of the attached contract award. OSCA, Contracts Unit, requests the contract award be signed and returned to us for filing with the award documentation. Quarterly reports concerning the number of juveniles served and recidivism outcomes should be submitted with a final report being submitted at the end of the funding period. Additional information will be sent out soon.

When entering into contracts for this program, courts should determine if the individual is an employee of the state of Missouri, a member of the General Assembly a statewide elected official or county employee. If this is the case, the court must comply with sections 105.450 to 105.458, RSMo, regarding conflict of interest. Your county purchasing policies and rules will apply to the contracting with individuals that fall into this category.

The county should consider language concerning liability as it relates to the contractor. For example OSCA uses the following in its contracts. "The contractor shall agree that neither the state of Missouri nor the county shall be responsible for any liability incurred by the contractor arising out of the ownership, selection, possession, leasing, rental, operation, control, use, maintenance, delivery, return and/or installation of equipment provided by the contractor, except as otherwise provided in the contract."

Additional language that OSCA uses in its contracts concerning liability is as follows. "The contractor shall understand and agree that the state of Missouri and the county cannot save

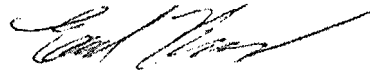
and hold harmless and/or indemnify the contractor against any liability incurred or arising as a result of any activity of the contractor or any activity of the contractor's employees related to the contractor's performance under the contract. Therefore, the contractor must acquire and maintain adequate liability insurance in the form(s) and amount(s) sufficient to protect the state of Missouri, its agencies, its employees, its clients and the general public against any such loss, damage and/or expense related to his/her performance under the contract.”

The following OSCA staff members have been designated to assist you and your court staff with any additional information you may need related to this program. They may be reached by telephone at 573-751-4377 or via e-mail as indicated below:

Jay Rodieck, Program Administration – jay.rodieck@courts.mo.gov
Russell Rottmann, Contractual Matters – osca.contracts@courts.mo.gov
Jessica Schwaller, Quarterly Reports – jessica.Schwaller@courts.mo.gov
Shelly Peters, Fiscal Matters (invoicing/reimbursements) – shelly.peters@courts.mo.gov

Congratulations on your award.

Sincerely,



Earl Kraus
Deputy State Courts Administrator

EK/rr

Enclosures:
Juvenile Justice Program Assistance Contract Award

Name of proposed program and juvenile/family court submitting the application:

13th Circuit Family Court-Juvenile Division, Intensive Crisis Intervention Services, In Home Monitoring Services, Shelter Care Services, and Evening Reporting Center Program

The geographical area to be served:

The Thirteenth Judicial Circuit Juvenile Division is comprised of Boone and Callaway counties which are progressive counties located in the center of the state at the crossroads of major east-west and north-south highways. Demographics are of an urban, semi-urban, and rural composition with a unique degree of ethnic diversity. Boone and Callaway Counties are home to a significant number of minority populations, including Asian, Native American, Hispanic, African American, Multi-Racial, in addition to the Caucasian population. Population growth and prospects for additional growth are placing increasing demands on county government. According to 2010 population data provided by the U.S. Census Bureau, Boone and Callaway counties had a combined population of 206,974. Specifically, Boone County made up 162,642 of this population and Callaway 44,332. The Circuit as a whole has shown a moderate increase in population since 2010. According to the United States Census Bureau QuickFacts, it is estimated that as of 2013, Boone County has a population of 170,773 and Callaway County has a population of 44,359 for a combined circuit population of 215,132 which shows moderate increases from 2010 of approximately 1.4 % annually.

Need for the Programs:

According to information posted on the Juvenile Detention Alternatives Initiative (JDAI) Help Desk website (www.jdaihelpdesk.org), studies conducted on the juvenile justice system across the United States found the system to be "arbitrary, discriminatory, and ineffective". Specifically speaking, the system of detaining youth was faulted across the U.S. In the early 1990's, two out of every three youth who were detained went to detention centers that were over crowded and could not provide the programs and services mandated by law. Less than one third of the youth were in detention for violent offenses and in 1995, two-thirds of these youth in detention were minority youth. Further research posted on the JDAI help desk website shows that youth who are placed in detention with other delinquent youth are more likely to leave detention having more undesirable behaviors than when they entered and further one study conducted in Arkansas revealed that once a youth has been placed in detention one time, their likelihood of returning was high.

The Thirteenth Circuit began participating in JDAI in October of 2009. It was not until January 1, 2010, that the Thirteenth Circuit officially began using the Juvenile Detention Assessment (JDTA) to screen referrals to detention. Shortly thereafter, other JDAI core strategies were being researched and implemented in our Circuit in efforts to reduce the unnecessary use of detention in the 13th Circuit and develop alternatives to detention for youth in the community.

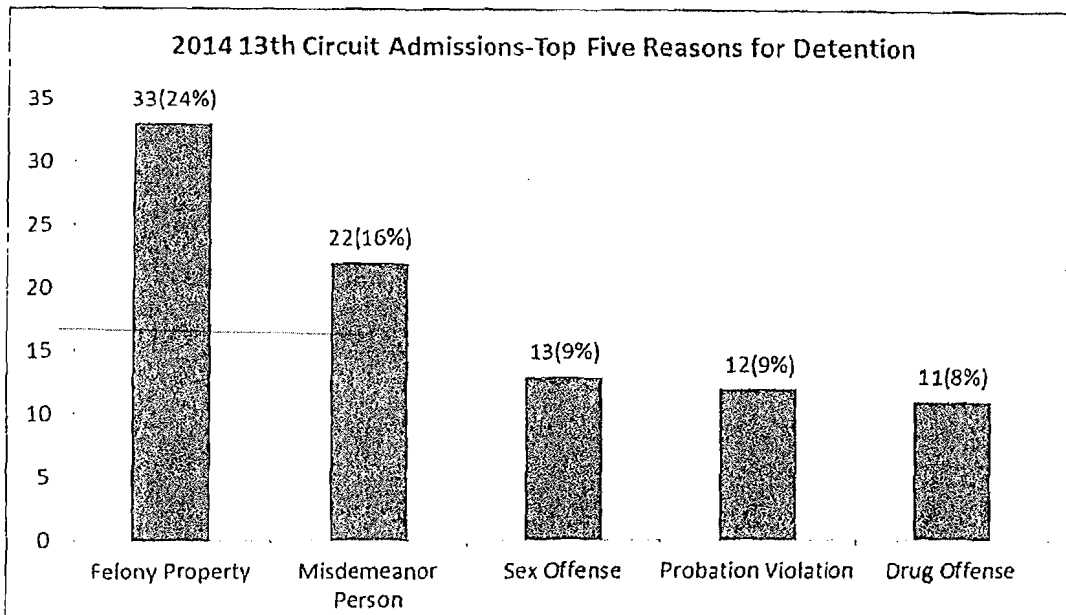
In 2012, there were a total of 170 Thirteenth Circuit youth admitted to detention producing an average daily population of 4.2 and an average length of stay in detention of 8.3 days. To date this is a 21% increase in the average daily population of Thirteenth Circuit youth and a 8% decrease in their average length of stay in detention from 2011. Youth of color made up 58% of the 170 Thirteenth circuit youth detained during this period.

In 2013, there were a total of 167 Thirteenth Circuit youth admitted to detention producing an average daily population of 3.7 and an average length of stay in detention of 8.1 days. This is an 11.9% decrease in the average daily population of Thirteenth Circuit youth and a 2.4% decrease in their average length of stay in detention in from 2012. Youth of color made up 62% of the Thirteenth Circuit youth detained during this period. Overall detention numbers, average daily population and average length of stay decreased slightly since 2012, but the percentage of youth of color detained has increased 4%.

In 2014, there were a total of 140 Thirteenth Circuit youth admitted to detention producing an average daily population of 4.3 and an average length of stay in detention of 11.4 days. Youth of color made up 64% of the Thirteenth Circuit youth detained during this period. While this is a 16.2 % increase in the average daily population and a 28.9% increase in the average length of stay in detention from 2013, this is 30 less juveniles (or 17% decrease) than were admitted in 2012. The Thirteenth Circuit has strived to use the JDTA to ensure only appropriate youth were detained, which is evidenced by this annual decline of total youth admitted.

In addition to reviewing the Thirteenth Circuit's assessment tools for detention, in 2011, the Thirteenth Circuit developed a Disproportionate Minority Contact Committee to look at racial disparity in the juvenile justice system through technical assistance from the Annie E. Casey Foundation, Missouri Juvenile Justice Association, and Office of State Courts Administrators. In 2008, a study was conducted by the Office of State Courts Administrators in conjunction with the Missouri Juvenile Justice Advisory Group, Department of Public Safety in collaboration with the Missouri Juvenile Justice Association. The study found that Boone County had a relative rate index (RRI) of 7.7 regarding African American youth referred to the juvenile justice system. According to this report, the relative rate index measures the over or under representation of minorities at certain contact points in the juvenile justice system. This relative rate index shows that African American youth were referred to the juvenile justice system in Boone County Missouri 7.7 times more than their Caucasian counterparts which can lead to over representation of youth of color in juvenile detention facilities. According to a report completed by the Office of State Courts Administrators in March of 2014, the relative rate index in Boone County decreased to 5.7. This may indicate that the efforts through JDAI have had an impact on decreasing these numbers. The Thirteenth Circuit continues to work towards reaching the statewide relative rate index average of 2.8.

After looking at detention admission numbers for the Robert L. Perry Juvenile Justice Center, the next area of focus was to determine why youth are being detained at the Robert L. Perry Juvenile Justice Center. The following table is a breakdown of the top five reasons for admission in 2014 and the number and percentage of youths admitted for each category:



Admissions data for 2014, illustrates that the top five reasons for detention thus far have been: 1) Felony Property, 2) Misdemeanor Person, 3) Sex Offense, 4) Technical or Probation Violation, and 5) Drug Offense. Felony property crimes continue to be the number one reason for detention in 2014. Status Offenses are no longer part of the top five reasons for detention which is promising however, probation violations now are the number four reason for detention of youth. Overall, four out of the top five reasons for detention are law violations. This is an indication that detention is being used more appropriately for community safety. Sex offenses, as the number three reason for detention, may impact average daily population and average length of stay if the juvenile needs to stay at the Robert L. Perry Juvenile Justice Center because they would otherwise have easy access to the victim.

According to experts in the field of Juvenile Justice, professional standards suggest that secure detention should be used to accomplish the following: to make sure that the youth appears in court and to minimize the risk of serious re-offending while waiting to appear in court. Prior to January 1, 2010 in the Thirteenth Circuit, the decision to detain youth was at the discretion of fourteen different deputy juvenile officers, leaving the decision to detain or not, to be highly subjective. The rate of youth who were detained for failure to appear in Court for the Thirteenth Circuit in 2014 was 4% which is very small compared

to the top five reasons listed above which indicate the alternatives to detention developed are having an impact in this area.

Prior to 2010, the 13th Circuit had guidelines to follow when making a decision to detain, however the reason to detain was often based generally on several main criteria such as the offense committed, how cooperative the youth/parents were, whether or not they had a suitable adult to supervise them, and the need to hold youth accountable for their actions. All these factors could be influenced by the youth's attitude, pressure from law enforcement to authorize detention, the deputy juvenile officers' frustration in not knowing what else to do with the youth as well as the responsibility to public safety.

On January 1, 2010, the Thirteenth Circuit Juvenile Division began using the Missouri Juvenile Detention Assessment (JDTA) on all youth who were presented for detention whom the juvenile office had in-person contact with. In 2012, the Missouri Juvenile Detention Assessment was implemented for all youth presented by law enforcement, whether there was in-person contact or not which explains the increase in the number of JDTA forms completed in 2012 on the chart. The table below shows how many youth scored within each of the three risk levels on the form. For the years 2011 to 2014 see the chart below.

Year	High	Medium	Low	Total for Year
2011	152	60	92	304
2012	141	156	628	925
2013	126	167	526	819
2014	155	177	505	837

In 2014, there were 53 overrides of the JDTA instrument. This amounted to an overall override rate of 6.3%. However the true override rate that JDAI focuses on is the rate of those youth eligible for release or release with a detention alternative who are placed in detention. This would be all youth who scored in the medium or low risk range and were placed in detention. In 2014, there were 18 medium risk youth and 1 low risk youth placed in detention, which amounted to 2.7% of the 682 youth eligible for release. This rate was lower than our projected goal of 10%, but higher than our 2013 rate of 1.3%. The use of the JDTA has greatly improved our process of determining which youth are appropriate for detention. Alternatives to Detention that have been developed in the 13th Circuit have helped to keep the override rate low by providing a variety of alternatives to detention that address varying issues and levels of risk. In using the JDTA form, it has helped make objective the decision making process for all youth.

After starting JDAI in the Thirteenth circuit, the circuit quickly found the need to develop more suitable detention alternatives. In April, 2010, the circuit developed shelter care as an alternative to detention. With the development of shelter care, the circuit had a suitable alternative for those youth who refused to go home, their parents refused to allow them to return home, or for those youth who did not have a suitable custodian to release them to at the time. This detention alternative often requires an override up as many of these

youth are low risk youth on the JDTA, but present for an immediate need for placement which may partially account for the increase in the override rate to 6.3%. In May of 2010, the circuit developed a detention alternative committee to look at our current alternatives and develop additional alternatives. Following this committee's work, the Evening Reporting Center was developed in August 2010; the use of cell units for electronic monitoring was implemented in March 2011; and the use of the Global Positioning System (GPS) began in April 2011. The circuit formalized the conditional release alternative in 2011. In January 2012, the circuit began using Intensive Crisis Intervention Services. Intensive Crisis Intervention Services is another service that is commonly used for low risk youth as the youth and family may need immediate crisis services. We continue to use each of these as alternatives to detention, but also use Shelter Care, Intensive Crisis Intervention Services, the Evening Reporting Center, and In Home Detention with cell and GPS technology as sanctions for youth under Informal and Formal Supervision

While the court has strived to work on creating and maintaining the above mentioned alternatives to detention, one major obstacle is funding. The circuit began providing GPS and Cell Unit Monitoring in March 2011, it found that this alternative was cost prohibitive for families. The court used Title II funds to help families who were determined indigent by the Court; however this funding ended on September 30, 2012. Title II dollars were also used to pay for Shelter Care as an alternative to detention. The circuit has provided shelter care as an alternative to detention since April 1, 2010. OSCA began funding ICIS, Shelter Care, some ERC services, and In Home Detention in July 2013 through the Juvenile Alternatives to Detention Program Grant. Starting in July 2014 these programs have been funded through the Juvenile Justice Program Assistance Grant.

Funds are being requested so that we can continue to pay for the use of shelter care and to pay for the use of GPS and cell units for electronic monitoring for not only indigent families, but for all youth placed on In Home Detention through cell and GPS units in an effort to expand the use of this as an alternative to detention and a sanction.

In terms of funding requested for the Evening Reporting Center, there are two major costs: Moral Reconciliation Therapy ("MRT"), and meals. The circuit has an agreement with the Reality House Programs, Incorporated, who provide a licensed therapist to facilitate MRT to the youth participating in the Evening Reporting Center at a cost of \$35.80 per thirty minute session, for two days a week. MRT requires the use of workbooks for which funding is needed. MRT therapy was originally covered through a diversionary grant through the Missouri Division of Youth Services; however, funding was depleted at the end of December 2014, and a Juvenile Justice Program Assistance Grant Amendment was submitted to allow it to be covered starting in January 2015 through the end of the current grant cycle. There are also costs associated with providing daily meals for the youth at the Evening Reporting Center. The circuit uses the United States Department of Agriculture Guidelines to provide cold meals for youth which consists of two slices of bread and youth's choices of either peanut butter and jelly, or sandwich meat; snack crackers; a fruit cup or pudding and a nutritious drink with appropriate daily values of vitamin C. This meal costs approximately \$1.50 per youth per day while at the Evening

Reporting Center. The circuit requests minimal funding for Evening Reporting Center supplies such as paper plates, food preparation gloves, paper towels, cups, and wet wipes for food cleanup. In addition, youth do a variety of educational and art activities and the circuit requests funding for minimal art supplies such as paper, paint, markers, colored pencils, glue, and safety scissors for these activities.

In 2011, Intensive Crisis Intervention Services (ICIS) were developed to address situations involving youth in custody by law enforcement for domestic related status offenses or law violations as well as disruptive school behavior. The circuit began using ICIS in January 2012. The circuit contracts with two local therapy providers who make contact with the family in the home immediately upon receiving the referral from the Juvenile Office and provide up to 18 hours (approximately two weeks) of therapy to the family to help identify and address the issues that may be contributing to or causing these referrals. The therapists then makes recommendations for additional services for the families and a final meeting is held with the family, therapist, and Juvenile Office representative to ascertain the success of the program. In addition a stakeholder survey is completed by the family at the completion of the program. The therapist is then reimbursed at a rate of \$625 per family served. These services were funded through the Annie E. Casey Foundation until 2012, juvenile diversion funds were received through OSCA that helped the 13th Circuit continue to fund these services and now have been funded through the Juvenile Justice Program Assistance Grant since July 2014.

The Thirteenth Circuit wants to continue to offer Intensive Crisis Intervention Services (ICIS), a detention alternative that addresses the immediate crisis needs facing youth age 8-16, who are in custody with law enforcement for domestic related status or law violation offenses as well as for disruptive school behavior. ICIS can also be used as a sanction for youth under supervision who are experiencing disruptive behavior in school or domestic issues in the home who may not be in the custody of law enforcement, but need a more immediate response to their current issues.

The Thirteenth Circuit has continued to use several of these alternatives to detention more frequently as a sanction for youth in 2014 who are already under the jurisdiction of the court as a means to address dangerous or problematic behaviors in lieu of placement at the Robert L. Perry Juvenile Justice Center for detention or evaluation. Currently, the circuit regularly uses both cell and GPS In-Home Detention as well as the Evening Reporting Center as sanctions for violations of a juvenile's supervision, which overall have been very successful in addressing problematic behaviors in lieu of detention. Also several youth who have scored a release on the Missouri Juvenile Detention Assessment, but had a supervisory approved override up, were assigned to Shelter Care and the ICIS program when a simple release back to the family was not seen as suitable by both the Deputy Juvenile Officer, parent, and the youth and more intervention was needed.

In 2011, the Thirteenth Circuit researched and worked to establish a uniform sanctions grid to respond to technical probation violations. With the creation of the sanctions grid, the Evening Reporting Center and In Home Detention are used to respond to serious and persistent technical probation violations such as persistent school problems, youth who

ran away from home for extended periods of time, and youth who failed to report to see their Deputy Juvenile Officer as directed on multiple, consecutive occasions. Multiple youth who had been detained at the Robert L. Perry Juvenile Justice Center, were released at the detention hearings pre-adjudication to participate in several alternatives to detention such as ICIS, ERC, and In Home Detention once it was determined that further detention was not needed pending adjudication and disposition. Furthermore, several youth were released from the Robert L. Perry Juvenile Justice Center post adjudication, pre-disposition, who were being evaluated on the program side of the Robert L. Perry Juvenile Justice Center. This allowed further evaluation of the youth in the community while participating in the Evening Reporting Center or In Home Detention as a step down to a less secure environment, but with some restriction of movement and services in place.

Several youth have also participated in the Evening Reporting Center and In Home Detention post-adjudication and post-disposition when it was determined that some problematic behaviors persisted that needed further restriction and monitoring, but did not rise to the level of detention or placement at the Robert L. Perry Juvenile Justice Center.

Number of people to be served and the number of hours of service to be provided:

ICIS: The circuit estimates that approximately 15 youth and families would be served at \$625 per youth/family, which comes to \$9,375 which is a moderate decrease from our previous estimate of 20 youth due to past and current usage trends. Specifically, this breakdowns to each family receiving approximately nine hours of service weekly for two weeks, giving each family approximately eighteen hours of crisis intervention services. This figures out to an hourly rate of \$34.72. The \$625 payment to a provisionally or fully licensed clinical social worker or professional counselor would cover any mileage or administrative cost associated with them providing this service.

The circuit arrived at this estimate in that during the past grant year the circuit had 9 families referred to the ICIS program during the prior grant period and 8 families that actually participated. During the first 3 quarters of the current grant reporting period the circuit have had 11 families referred to the ICIS program and 10 that participated, therefore the circuit anticipates that the circuit will have approximately 15 families that will participate due to past history of usage as well as use of this program for a potential sanction for youth post adjudication/disposition who are having difficulties in the home that have led to a parental referral or school referral.

GPS/Cell Unit Monitoring:

One of our case processing goals is to have all youth placed on some form of in-home detention be released within fourteen days. It is our circuit's policy and practice to release youth at their first court appearance if they have had no problems or concerns while on in-home detention. The circuit continues to have the goal of setting each of these youth for first appearance within fourteen days of being placed on in-home detention. During

the first half of this grant year, July 1 through December 31, the average number of days youth have been placed on home detention as an alternative to detention has been 15.9. During the first half of this grant year, the circuit has had 33 youth participate in GPS or Cell Unit Monitoring as an alternative to detention or a sanction. Youth have historically only been eligible for GPS/Cell Unit through grant funding if the Court finds the family indigent prior to the current grant period. The circuit continues to have the goal of putting more of our technical probation violators who are in custody and who score detention on GPS or Cell Unit Monitoring instead of those youth having to be placed in detention. If they are placed in detention, the circuit looks to immediately release them at their detention hearing on home detention until their next court appearance. For the current grant year and for the coming year, we will be looking to cover all youth placed on In Home Detention as an alternative to detention and post adjudication/post disposition sanction. We estimate providing 1120 days of Cell Unit Monitoring or GPS monitoring for approximately fourteen days each to 80 youth. The cost of Cell Unit Monitoring is \$4.24 daily and the cost of GPS Monitoring is \$4.35 daily. Cell Units have been used the majority of the time during the first half of the grant year with GPS units only being used approximately 9% of the time, however this trend reversed during the second half of the grant year through the 3rd quarter as more GPS units have been available. We will continue to monitor this trend.

Shelter Care: We are estimating that we will provide shelter care to 7 youth who stay an average of 5 days at a time which comes to 35 shelter care beds at \$79.85/night. The maximum days allowed to remain in shelter care is 7 days. We arrived at this figure by looking at 2014 where 6 youth was served which is an increase from 4 youth in 2013, where these youth stayed an average of 3.75 days. We continue to feel that this program is being underutilized and are looking at ways to increase the usage of this program.

Evening Reporting Center: In September, 2012, we began facilitating our own Evening Reporting Center in a building owned by Boone County. Therefore, Boone County assumes the costs of the building. There are the costs of purchasing Moral Reconciliation Therapy workbooks, purchasing meals, and providing snacks five days a week while programming is being facilitated by the Court. Grant funds were previously received through Court Diversion Funds from the Missouri Division of Youth Services to assist in the cost for the licensed practitioner who provides the Moral Reconciliation Therapy, however those funds were depleted and Moral Reconciliation Therapy was then covered under the Juvenile Justice Program Assistance Grant as of January 2015. We would like for the Moral Reconciliation Therapy to continue funding through the Juvenile Justice Programming Assistance Grant as it is such an integral part of the programming at the Evening Reporting Center and would allow for greater continuity of programming and costs. It should be noted that Moral Reconciliation Therapy is an evidenced based model of treatment. From July 1, 2014 through December, 2014, 24 youth participated in the Evening Reporting Center, or an average of 4 youth monthly, an increase from 2013 of 3.1 youth monthly. The average number of days for youth participation was 21 days. This is an increase from 2013. The main increase has been due to the Evening Reporting Center being utilized as a sanction more frequently. It should be noted we also no longer partnering with the Boys and Girls Club two days a week, therefore an additional two

days a week are needed for meals and snacks. This would therefore entail 21 days of meals and snacks for each youth. In this next grant year, we would estimate 50 youth participating an average of 21 days as we would look to continue the use as not only an alternative to detention, but also as a sanction for youth. This would entail each youth participating in MRT therapy two days a week for approximately six sessions. Average monthly costs for MRT therapy is \$35.85 per unit, or \$395 monthly for an average yearly cost of \$4,740 or \$94.80 per youth for 50 youth. Meals would cost \$1.50 a day for 21 days for each youth for a total of 1050 meals, \$1,575. Snacks averaged \$300.00 during 2014 which is an estimate of \$6.00 per youth. The workbooks are \$25.00 for each youth for a cost of \$1,250. We also estimate approximately \$150 for supplies such as educational, art, and food preparation supplies.

We arrived at this estimate as we had 24 youth participate in the ERC as an alternative to detention or sanction between July 2014 and December 2014 which is showing a greater rate of usage than the previous grant period in which 21 youth had participated between July 2013 and June 2014. We anticipate an increase in the use of this program not only as an alternative to detention, but also as a sanction for youth to remain in the community with closer supervision and treatment as we have streamlined usage of the program so that youth who are referred to the Evening Reporting Center as a sanction no longer require a Court order to participate. In addition, youth under Informal Supervision are now allowed to participate as a sanction for behaviors. This has been proven to be successful.

Implementation Plan:

ICIS: This is an established detention alternative and would not require implementation but simply a continuation of an existing service. The circuit currently contracts with two local counseling agencies. A copy of the contract the circuit has with each of our providers is included in this proposal which outlines the program and services provided. The circuit also has requested copies of their licensure materials that will be attached hereto.

GPS and Cell-Unit Monitoring: This is also an established detention alternative that the circuit would want to provide to all families without charge when youth are ordered to participate both as an alternative to detention or a sanction. The circuit would not need to implement anything as we currently have an agreement that the family signs which outlines conditions/rules of the program. The service is currently provided by BI, Incorporated to the Thirteenth Circuit.

Shelter Care: This is also an established detention alternative and would not require implementation but simply a continuation of an existing service. Shelter Care is currently provided to us by Rainbow House and Coyote Hills. A copy of the Memorandums of Understanding that the circuit has with each agency are included in this proposal which outlines the program and services provided. The circuit has also included their up to date licensure with the state of Missouri to operate a residential facility.

Evening Reporting Center: This is also an established detention alternative and would not require implementation but simply a continuation of an existing service. The circuit would also want to use funding to use the Evening Reporting Center as a sanction for technical probation violations so as to lessen the need for detention, but also respond to problematic behaviors in the community. The circuit currently contracts with staff from Reality House Program, Incorporated to provide Moral Reconciliation Therapy. The circuit has also recently partnered with Pathways Behavioral Healthcare, Incorporated to provide educational groups and family interventions at no cost to youth or the 13th Circuit. The circuit purchases food supplies that provide meals and snacks for our youth that provide nutritious benefits for youth while attending the Evening Reporting Center. The circuit also purchases the Moral Reconciliation books, provide Moral Reconciliation Therapy, as well as educational and therapeutic activities. The MRT Certification of the therapist will be included with this proposal.

Project Goals and Objectives:

Goal: Provide detention alternatives to youth that are specific to a youth's and family's needs in order to prevent subsequent detentions/referrals and additionally provide post adjudication/dispositional services that can be used as a sanction to prevent further re-offenses and lessen the need to return to Court and/or have a juvenile detained.

ICIS:

Objective 1: Survey each family who receives services under the program and report number and percentage who reported the service met their needs and was helpful to them.

Objective 2: Track the number and percentage of youth who receive services and who receive a new law violation referral prior to their intake conference/court hearing or completion of the program as well as the number and percentage of youth who receive subsequent law violation referrals 6 months after their release from the program.

Objective 3: Track the number of youth who receive services who are detained prior to successfully completing the program as well as the number and percentage of youth who are detained 6 months after the release from the program.

GPS/Cell Unit Monitoring:

Objective 1: Track the number of youth who are placed on GPS and Cell Unit Monitoring as well as the number and percentage of youth who receive a new law violation referral prior to their intake conference/court hearing or completion of the program and 6 months after their release from the program.

Objective 2: Track the number of youth who are placed on GPS and Cell Unit Monitoring who fail to appear for their scheduled intake/court hearing.

Objective 3: Track the number of youth who are placed on GPS and Cell Unit Monitoring who violate the conditions of GPS/Cell Unit Monitoring and are detained prior to completing the program and number of youth detained 6 months after release from the program.

Shelter Care:

Objective 1: Track the number of youth who are placed in Shelter Care as well as the number and percentage of youth who receive a new law violation referral prior to their intake conference/court hearing or completion of the program and receive a new law violation referral 6 months after their release from the program.

Objective 2: Track the number of youth who are placed in Shelter Care who fail to appear for their scheduled intake/court hearing.

Objective 3: Track the number of youth who are placed in Shelter Care who violate the conditions of Shelter Care and are detained 6 months after their release from the program.

Evening Reporting Center:

Objective 1: Track the number of youth who are placed in the Evening Reporting Center as well as the number and percentage of youth who receive a new law violation referral prior to their intake conference/court hearing or completion of the program and 6 months after their release from the program.

Objective 2: Track the number of youth who are placed in the Evening Reporting Center who fail to appear for their scheduled intake/court hearing.

Objective 3: Track the number of youth who are placed in Evening Reporting Center who violate the conditions of Evening Reporting Center who are detained and detained 6months after their release from the program.

Sustainability:

If funding is no longer available for these programs the circuit will examine resources from our existing budget to cover the cost of the programs. The circuit would have to evaluate our detention alternatives and post adjudication/dispositional programming and the success of each and then determine which alternatives and post adjudication/dispositional services the circuit is able to continue funding using our existing contractual dollars.

Budget Narrative:

ICIS: \$625/juvenile and family x 15 juvenile/families = \$9,375. This breakdowns to approximately 18 hours of counseling and crisis services from a provisionally or fully licensed clinical social worker or professional counselor over a two week period @

\$34.72/hour. The \$625 payment to a provisionally or fully licensed clinical social worker or professional counselor would cover any mileage or administrative cost associated with them providing this service.

GPS/Cell Unit Monitoring: \$4.24/day x 1000 days of Cell Unit Monitoring = \$4,240 and \$4.35/day x 120 days of GPS monitoring = \$522 for a total of **\$4,762** The circuit estimates providing 1000 days of Cell Unit Monitoring to 71 youth for approximately fourteen days each which comes to \$59.72/youth. The circuit also estimate providing 120 days of GPS monitoring to 9 youth for approximately fourteen days each which comes to \$58/youth.

Shelter Care: Current state of Missouri Emergency Residential care rate of \$79.85/day x 35 days= **\$2,794.75** This is based on serving 7 youth staying an average of five days. \$79.85 x 5 days=\$399.25/youth.

Evening Reporting Center: The cost per youth is \$160.30, which includes \$94.80 for MRT per youth, \$25.00 for an MRT workbook per youth, \$31.50 for meals per youth, \$6.00 for snacks per youth, \$3.00 for food preparation, educational, and art supplies per youth. Therefore with 50 youth at \$160.30 each = **\$8,015**

Summarization:

ICIS: \$9,375
GPS/Cell Unit Monitoring: \$4,762
Shelter Care: \$2,794
Evening Reporting Center: \$8,015

Total Funding Request: **\$24,946**

**County Treasurer to which all reimbursements will be made: Nicole Galloway,
Boone County Treasurer**

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

November Session of the October Adjourned

Term. 20 15

County of Boone

} ea.

In the County Commission of said county, on the

24th

day of

November

20

15

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

Now on this day the County Commission of the County of Boone does hereby accept the attached easement for street purposes and easement for utility purposes for a portion of Rangeline Road.

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill

Daniel K. Atwill
Presiding Commissioner

Karen M. Miller

Karen M. Miller
District I Commissioner

Janel M. Thompson

Janel M. Thompson
District II Commissioner



Recorded in Boone County, Missouri

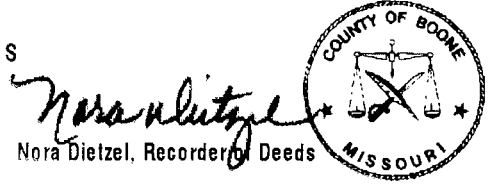
Date and Time: 11/25/2015 at 10:04:23 AM

Instrument #: 2015024952 Book: 4524 Page: 19

Instrument Type: ESMT

Recording Fee: \$30.00 S

No. of Pages: 3



GRANT OF EASEMENT FOR STREET PURPOSES

THIS INDENTURE, made on the 7th day of October, 2015, by and between **The City of Columbia**, a Municipal Corporation of the State of Missouri, Grantor, and **The County of Boone**, a political subdivision of the State of Missouri, in the County of Boone and the State of Missouri, Grantee; Grantee's mailing address is 801 E. Walnut Street, Rm. 315, Columbia, MO 65201

WITNESSETH:

That Grantor, in consideration of the sum of Ten Dollars (\$10.00), and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby grant unto The County of Boone, its successors and assigns, an easement of way for street purposes, over the following described real estate, situated in the County of Boone, State of Missouri, to wit:

Resolution #

LEGAL DESCRIPTION:

A parcel of land over tracts of land described in warranty deeds in Book 363 at Page 154, Book 606 at Page 3 and Book 514 at Page 491, said tracts also being described in surveys in Book 601 at Page 308 and Book 368 at Page 20, all of the Boone County Records; situate in the southwest quarter (1/4) of Section 30, Township 47 North, Range 11 West and the northwest quarter (1/4) of Section 31, Township 47 North, Range 11 West, Boone County, Missouri; said parcel being described as follows:

Starting at the northeast corner of the northwest quarter (1/4) of said Section 31; thence along the section line S.89°46'40"W., 928.03 feet to the POINT OF BEGINNING on the easterly line of Tract 1 of the survey as recorded in Book 4492 at Page 46 of said Boone County Records; thence along the lines of said Tract 1 S.33°39'40"E., 406.84 feet; S.28°09'30"E., 179.45 feet; S.18°11'50"E., 231.31; S.29°20'00"W., 285.45 feet; S.37°51'40"W., 150.42 feet; S.45°11'10"W., 342.17 feet; along a curve to the right having a radius of 590.00 feet a distance of 461.48 feet (the chord of said curve having bearing and distance of S.67°35'30"W., 449.80 feet); S.90°00'00"W., 908.90 feet; along a curve to the left having a radius of 510.00 feet a distance of 787.89 feet (said curve having bearing and distance of S.45°44'30"W., 711.84 feet; S.1°29'00"W., 128.45 feet; S.20°34'30"W., 52.91 feet; N.88°31'00"W., 24.14 feet to the west line of said Tract 1 on the west line of said Section 31; thence along said line N.1°24'50"E., 356.81 feet; thence continuing along the lines of said Tract 1 along a non-tangent curve to the right having a radius of 580.00 feet a distance of 714.74 feet (the chord of said curve having bearing and distance of N.54°41'50"E., 670.37 feet); N.86°40'10"E., 172.15 feet; N.90°00'00"E., 737.04 feet; along a curve to the left having a radius of 510.00 feet a distance of 398.90 feet (the chord of said curve having bearing and distance of N.67°35'30"E., 388.81 feet); N.45°11'10"E., 342.17 feet; along a curve to the left having a radius of 510.00 feet a distance of 362.20 feet (the chord of said curve having bearing and distance of N.24°50'20"E., 354.63 feet); N.11°07'50"W., 274.75 feet; N.30°22'00"W., 61.40 feet; N.33°39'40"W., 459.67 feet to the south line of said Section 30; thence continuing along the lines of


said Tract 1; N.33°39'40"W., 754.16 feet; along a curve to the right having a radius of 1,040.00 feet a distance of 628.62 feet (the chord of said curve having bearing and distance of N.16°20'40"W., 619.09 feet); N.0°58'20"E., 896.98 feet to the south Right-of-Way line of Missouri State Route H; thence along said south line and the north line of said Tract 1 S.88°58'30"E., 66.46 feet to the northwest corner of a tract of land as shown in the survey as recorded in Book 383 at Page 222 of said Boone County Records; thence continuing along the easterly line of said Tract 1 and the westerly line of said tract described in said Survey S.1°02'00"W., 812.15 feet to the northwest corner of a tract of land as shown in the survey as recorded in Book 601 at Page 308 of said Boone County Records; thence along a line of said survey S.44°45'30"E., 20.15 feet; thence leaving said line and continuing along the lines of said Tract 1 S.0°58'30"W., 70.70 feet; along a curve to the left having a radius of 960.00 feet a distance of 580.26 feet (the chord of said curve having bearing and distance of S.16°20'40"E., 571.47 feet); S.33°39'40"E., 806.99 feet to the POINT OF BEGINNING.


This grant includes the right of The County of Boone, a political subdivision of the State of Missouri, its officers, agents and employees, to enter upon said real estate at any time for the purposes of exercising any of the rights herein granted.

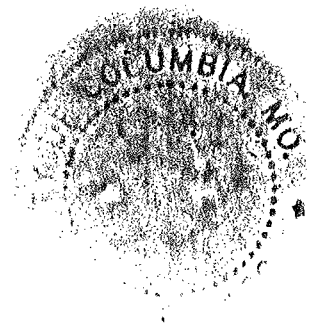
The Grantor warrants that, subject to liens and encumbrances of record at the date of this easement, they are the owners of the above-described land and have the right and authority to make and execute this Grant of Easement.

IN WITNESS WHEREOF, the said City of Columbia, has caused these presents to be signed by its City Manager, Mike Matthes the day and year first written above.

The City of Columbia

By: 
Mike Matthes

ATTEST: 
Sheela Amin, City Clerk





Recorded in Boone County, Missouri

Date and Time: 11/25/2015 at 10:04:23 AM

Instrument #: 2015024953 Book: 4524 Page: 20

Instrument Type: ESMT

Recording Fee: \$30.00 S

No. of Pages: 3



EASEMENT FOR UTILITY PURPOSES

KNOW ALL PERSONS BY THESE PRESENTS:

THAT THE UNDERSIGNED, **The City of Columbia**, a Municipal Corporation of the State of Missouri, hereinafter referred to as **Grantor(s)**, on this 7th day of October, 2015 in consideration of the sum of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does or do hereby Grant, Bargain, and Sell to **The County of Boone**, a political subdivision of the State of Missouri, herein County or **Grantee** (Grantee's mailing address is: One Government Center, 801 E. Walnut, Street, Columbia, MO), its successors and assigns, both individually and as Trustee for the use and benefit of the "Benefited Parties" described below herein, hereinafter called Grantees, a utility easement with the right, privilege and authority to erect, construct, install, lay, operate, survey, inspect, maintain, repair, rebuild, replace and remove utility lines and utility facilities, including but not limited to water mains, power transmission lines, sanitary sewer lines and all other public utilities, and all necessary appurtenances to make said utilities complete and usable, over, under, across, and upon the following described real estate situated in Boone County, Missouri, to-wit:

Resolution #

LEGAL DESCRIPTION: Two parcels of land over tracts of land described in warranty deeds in Book 363 at Page 154, Book 606 at Page 3 and Book 514 at Page 491, said tracts also being described in surveys in Book 601 at Page 308 and Book 368 at Page 20, all of the Boone County Records; situate in the southwest quarter (1/4) of Section 30, Township 47 North, Range 11 West and the northwest quarter (1/4) of Section 31, Township 47 North, Range 11 West, Boone County, Missouri; said parcels being described as follows:

Starting, for the first parcel, at the northeast corner of the northwest quarter (1/4) of said Section 31; thence along the section line S.89°46'40"W., 904.06 feet to the POINT OF BEGINNING on the easterly line of Tract 3 of the survey as recorded in Book 4492 at Page 46 of said Boone County Records; thence along the lines of said Tract 3 S.33°39'40"E., 394.59 feet; S.28°09'30"E., 182.16 feet; S.18°11'50"E., 241.86; S.29°20'00"W., 295.75 feet; S.37°51'40"W., 153.19 feet; S.45°11'10"W., 343.45 feet; along a curve to the right having a radius of 610.00 feet a distance of 477.12 feet (the chord of said curve having bearing and distance of S.67°35'30"W., 465.05 feet); S.90°00'00"W., 908.90 feet; along a curve to the left having a radius of 490.00 feet a distance of 756.99 feet (said curve having bearing and distance of S.45°44'30"W., 683.93 feet; S.1°29'00"W., 131.82 feet; S.20°34'30"W., 52.20 feet; N.80°55'30"W., 20.41 feet to a westerly line of said Tract 1 on the west line of said Section 31; thence along the lines of said Tract 1 N.20°34'30"E., 52.91 feet; N.1°29'00"E., 128.45 feet; along a curve to the right having a radius of 510.00 feet a distance of 787.89 feet (the chord of said curve having bearing and distance of N.45°44'30"E., 711.84 feet); N.90°00'00"E., 908.90 feet; along a curve to the left having a radius of 590.00 feet a distance of 461.48 feet (the chord of said curve having bearing and distance of N.67°35'30"E., 449.80 feet); N.45°11'10"E., 342.17 feet; N.37°51'40"E., 150.42 feet; N.29°20'00"E., 285.45 feet; N.18°11'50"W., 231.31 feet; N.28°09'30"W., 179.45 feet; N.33°39'40"W., 406.67 feet to the south line of said Section 30; thence continuing along the lines of said Tract 1; N.33°39'40"W., 806.99 feet; along a curve to the right having a radius of 960.00 feet a distance of 580.26 feet (the chord of said curve having bearing and distance of N.16°20'40"W., 571.47 feet); N.0°58'20"E., 70.70 feet to the northwest line of a tract of land as shown in the survey as recorded in Book 601 at Page 308 of said Boone County Records; thence along said line S.44°45'30"E., 27.93 feet;

thence leaving said line S.0°58'20"W., 51.21 feet; along a curve to the left having a radius of 940.00 feet a distance of 568.17 feet (the chord of said curve having bearing and distance of S.16°20'40"E., 559.56 feet); S.33°39'40"E., 820.20 feet to the POINT OF BEGINNING.

AND

Starting, for the second parcel, at the northeast corner of the northwest quarter (1/4) of Section 31, Township 47 North, Range 11 West; thence along the section line S.89°46'40"W., 1,023.90 feet to the POINT OF BEGINNING on the westerly line of Tract 1 of the survey as recorded in Book 4492 at Page 46 of said Boone County Records, also being the westerly line of the permanent street easement granted this date; thence along the lines of said Tract 1 S.33°39'40"E., 459.67 feet; S.30°22'00"E., 61.40 feet; S.11°07'50"E., 274.75 feet; along a non-tangent curve to the right having a radius of 510.00 feet a distance of 362.20 feet (the chord of said curve having bearing and distance of S.24°50'20"W., 354.63 feet); S.45°11'10"W., 342.17 feet; along a curve to the right having a radius of 510.00 feet a distance of 398.90 feet (the chord of said curve having bearing and distance of S.67°35'30"W., 388.81 feet); S.90°00'00"W., 737.04 feet; S.86°40'10"W., 172.15 feet; along a non-tangent curve to the left having a radius of 580.00 feet a distance of 714.74 feet (said curve having bearing and distance of S.54°41'50"W., 670.37 feet) to the westerly line of said Tract 1 on the west line of said Section 31; thence along said Section line; N.1°24'50"E., 56.87 feet; thence along the lines of Tract 2 of said Survey along a curve to the right having a radius of 600.00 feet a distance of 684.63 feet (the chord of said curve having bearing and distance of N.57°15'20"E., 648.09 feet); N.86°40'10"E., 172.15 feet; N.90°00'00"E., 737.62 feet; along a curve to the left having a radius of 490.00 feet a distance of 383.26 feet (the chord of said curve having bearing and distance of N.67°35'30"E., 373.56 feet); N.45°11'10"E., 342.17 feet; along a curve to the left having a radius of 490.00 feet a distance of 345.28 feet (the chord of said curve having bearing and distance of N.25°00'00"E., 338.18 feet); N.11°07'50"W., 269.20 feet; N.30°22'00"W., 56.28 feet; N.33°39'40"W., 472.88 feet to the south line of said Section 30; thence continuing along the lines of said Tract 2; N.33°39'40"W., 740.95 feet; along a curve to the right having a radius of 1,060.00 feet a distance of 640.70 feet (the chord of said curve having bearing and distance of N.16°20'40"W., 631.00 feet); N.0°58'20"E., 897.00 feet to the south Right-of-Way line of Missouri State Route H; thence along said line S.88°58'30"E., 20.00 feet to the northwest corner of said Tract 1; thence along the lines of said easement S.0°58'20"W., 896.98 feet; along a curve to the left having a radius of 1,040.00 feet a distance of 628.62 feet (the chord of said curve having bearing and distance of S.16°20'40"E., 619.09 feet); S.33°39'40"E., 754.16 feet to the POINT OF BEGINNING.

The "Benefited Parties" referred to above herein shall be deemed to mean any public corporation, any public entity, any public water supply district, any utility cooperative, and any utility company regulated by the Missouri Public Service Commission, and said Benefited Parties shall have the right to use the easement area for the aforesaid purposes.

The parties agree that in the event the County or a Benefited Party installs utility lines or utility facilities in the above described easement area, such installation shall not materially interfere with any preexisting utility lines or utility facilities installed in the easement area by the County or a Benefited Party and that the provisions of this paragraph may be enforced by proceedings in law or in equity, or both, and in any said legal proceedings the prevailing party shall have the right to recover from the other party or parties all reasonable litigation expenses, including a reasonable attorney fee.

The parties agree that this easement may not be terminated or amended without the prior written consent of The County of Boone and each Benefited Party which has any utility lines or utility facilities located in the easement area at the time of the proposed termination or amendment.

Grantor agrees that it will not erect any building or structure on the easement area or permit the installation of any obstruction on the easement area which will interfere with the construction, placement, operation and maintenance of utility lines and facilities in the easement area.

The County of Boone and/or any Benefited Party shall have the right to trim, clear, cut and remove from the easement area any tree, brush, shrub, plant or other object of any kind which in the reasonable judgment of said party may interfere with the installation and/or maintenance of utility lines and utility facilities in the easement area.

IN WITNESS WHEREOF, the said City of Columbia, has caused these presents to be signed by its City, Manager Mike Matthes, the day and year first written above.

City of Columbia, a Municipal Corporation of the State of Missouri

Mike Matthes
Mike Matthes, City Manager

Attest: Sheela Amin
Sheela Amin,
City Clerk

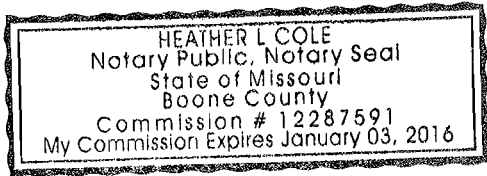


STATE OF MISSOURI }
 } ss.
COUNTY OF BOONE

On this 7 day of October, 2015 before me, a Notary Public in and for said state, personally appeared Mike Matthes, who being by me duly sworn, acknowledged that he is the City Manager of the City of Columbia, Missouri and the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same for the purposes therein stated on behalf of the City.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in the County aforesaid, the day and year first above written.

Heather L. Cole
Notary Public



022606

022606
COUNCIL OF THE CITY OF COLUMBIA

Introduced by McDavid

First Reading 9-21-15

Second Reading 10-5-15

Ordinance No. 022606

Council Bill No. B 278-15

AN ORDINANCE

authorizing the City Manager to convey street and utility easements to The County of Boone and a water line easement to Consolidated Public Water Supply District No. 1 of Boone County, Missouri necessary for the relocation of Rangeline Road as part of the Runway 13/31 extension project at the Columbia Regional Airport; and fixing the time when this ordinance shall become effective.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to convey easements necessary for the relocation of Rangeline Road as part of the Runway 13/31 extension project at the Columbia Regional Airport as follows:

Grant of Easement for street purposes to The County of Boone, substantially in the same form as set forth in "Exhibit A" attached hereto.

Grant of Easement for utility purposes to The County of Boone, substantially in the same form as set forth in "Exhibit B" attached hereto.


Water Line Easement to Consolidated Public Water Supply District No. 1 of Boone County, Missouri, substantially in the same form as set forth in "Exhibit C" attached hereto.

ORIGINAL
TO CPWSDF

SECTION 2. This ordinance shall be in full force and effect from and after its passage.

PASSED this 5th day of October, 2015.

ATTEST:

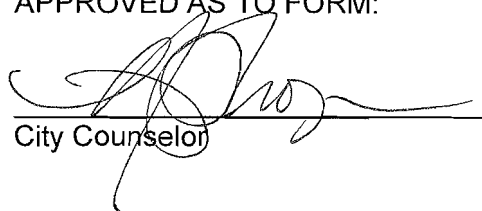


City Clerk



Mayor and Presiding Officer

APPROVED AS TO FORM:



City Counselor

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

In the County Commission of said county, on the

24th

day of

November

20 15

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

Now on this day the County Commission of the County of Boone does hereby accept the attached invoice from the City of Columbia in the amount of \$93,977.04 pertaining to operating costs of the Joint Communications Center for the period July through September, 2015.

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill

Daniel K. Atwill
Presiding Commissioner

Karen M. Miller

Karen M. Miller
District I Commissioner

Janel M. Thompson

Janel M. Thompson
District II Commissioner

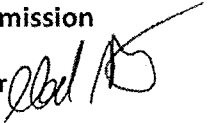


17 N. 7th Street, Suite A
Columbia, MO 65201

Phone (573) 886-7202
Fax (573) 875-1072

MEMORANDUM

TO: **Boone County Commission**

FROM: **Chad Martin, Director** 

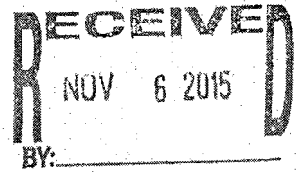
DATE: **November 10, 2015**

RE: **3rd Quarter 911 Joint Communication Invoice**

Attached is the invoice from the City of Columbia in the amount of \$93,977.04 pertaining to operating costs of the Joint Communications Center (911 call/dispatch center) for the period July through September, 2015. The County's FY 2015 budget includes an appropriation to reimburse the City of Columbia for operating costs of the 911 call center with such reimbursement to be made from the proceeds of the 3/8-cent sales tax dedicated to 911 and emergency management purposes.

The Boone County Auditor's Office and the Finance Department/Account Division of the City have agreed that the City will invoice the County on a quarterly basis for actual expenses incurred for the operation of the 911 call/dispatch center until such time that all operations, and associated costs, are transferred to the County. Documentation supporting the amounts invoiced has been provided by the City which have been reviewed. The documentation supports the invoiced amount and the invoiced expenses appear to be reasonable and directly related to the operations of the 911 Joint Communications call center.

INVOICE



CITY OF COLUMBIA
FINANCE DEPARTMENT/CASHIERS
P O BOX 6912
COLUMBIA, MO 65205

(573) 874-7373

TO: BOONE COUNTY-DIR JOINT COMMUN
801 EAST WALNUT, ROOM 333
COLUMBIA, MO 65201

INVOICE NO: 268451
DATE: 11/04/15

CUSTOMER NO: 1608/23977

TYPE: JC - JC JOINT COMMUNICATIONS

QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.00	JOINT COMMUNICATIONS QTRLY OPERATING COSTS PUBLIC SAFETY JOINT COMMUNICATIONS FOR THE PERIOD JULY THROUGH SEPTEMBER 2015 ***SEE ATTACHED***	93,977.04	93,977.04

TOTAL DUE: \$93,977.04

PLEASE DETACH AND SEND THIS COPY WITH REMITTANCE

DATE: 11/04/15 DUE DATE: 11/18/15
CUSTOMER NO: 1608/23977

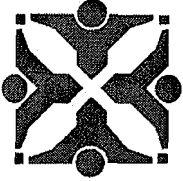
NAME: BOONE COUNTY-DIR JOINT COMMUN
TYPE: JC - JC JOINT COMMUNICATIONS

REMIT AND MAKE CHECK PAYABLE TO:
CITY OF COLUMBIA
FINANCE DEPARTMENT/CASHIERS
P O BOX 6912
COLUMBIA MO 65205

Please note:
When you provide a check as payment, you authorize us to either use the information from your check to make a one-time electronic funds transfer from your account or to process the payment as a check transaction. For inquiries, please call Customer Service at 874-7373.

INVOICE NO: 268451
TERMS: NET 14 DAYS

AMOUNT: \$93,977.04



TO: Chad Martin, Director Boone County Joint Communications
FROM: John Blattel, Finance Director *JR*
DATE: November 3, 2015
SUBJECT PSJC 3rd Quarter Billing 2015

Attached are the expenditures for Public Safety Joint Communications for the period July through September, 2015. Please invoice the County as indicated for \$93,977.04.

If questions arise, feel free to contact Laura Peveler at 874-7541

Thank you.

**FY 2015 PSJC Budget
11/3/2015**

	Proposed FY 2015 Budget	Amount Due January - March 2015	Amount Due April - June 2015	Amount Due July - September 2015	Amount Due October - December 2015
Operating Budget:					
Personnel Services	\$610,752	\$127,075.88	\$0.00	\$0.00	
Supplies & Materials	\$84,975	\$1,190.98	\$453.65	\$178.15	
Travel & Training	\$59,650	\$3,381.80	\$750.00	\$900.00	
Intragovernmental Charges	\$193,269	\$48,317.25	\$48,317.25	\$48,067.25	
Util. Serv & Other Misc.	\$1,040,306	\$44,318.55	\$28,774.78	\$44,906.74	
Capital Outlay	\$331,000	\$0.00	\$0.00	\$0.00	
Total Expenditures	\$2,319,952	\$224,284.46	\$78,295.68	\$94,052.14	\$0.00
Offsets:					
Traffic Enforcement	\$0	\$195.04	\$0.00	\$0.00	\$0.00
911 Records Request	\$0	\$20.00	\$136.40	\$75.10	\$0.00
Total Offsets	\$0	\$215.04	\$136.40	\$75.10	\$0.00
Total Expenditures Less Offsets	\$2,319,952	\$224,069.42	\$78,159.28	\$93,977.04	\$0

The FY 2015 budget covers the timeframe of October 1, 2014 - September 30, 2015. This budget assumes all city personnel transition over to be County employees on January 1, 2015.

**PSJC Expenses - Detail by Account Number
July - September 2015**

Account Number	Account Name	Total
110-3510-517.12-30	Postage	\$62.80
110-3510-517.14-10	Parts-Fleet Maintenance	\$115.35
Materials & Supplies Total		\$178.15
110-3510-517.20-30	Education & Training Mats	\$900.00
Travel and Training Total		\$900.00
110-3510-517.30-43	Computer Replacement	\$3,593.76
110-3510-517.30-44	IT Support & Maintenance	\$35,819.25
110-3510-517.30-49	GIS Fee	\$4,832.49
110-3510-517.30-50	Fiber Optics	\$500.00
110-3510-517.30-58	Self Insurance Charges	\$1,695.99
110-3510-517.30-87	Building Maintenance	\$1,625.76
Intragovernmental Charges Total		\$48,067.25
110-3510-517.35-32	Electric	\$6,182.42
110-3510-517.35-33	Telephone	\$11,911.65
110-3510-517.35-37	Storm Water	\$12.00
110-3510-517.35-38	Wireless Communications	\$461.57
110-3510-517.45-90	Rentals	\$9,497.90
110-3510-517.45-92	Equipment Rentals	\$64.35
110-3510-517.48-01	Maintenance Agreements	\$10,107.45
110-3510-517.48-20	Equipment Maintenance	\$3,724.99
110-3510-517.49-90	Miscellaneous Contractual	\$2,717.05
110-3510-517.48-10	Maintenance Services	\$227.36
Utilities, Services, & Miscellaneous Total		\$44,906.74
Total Quarterly Expenses		\$94,052.14

Actual Expenses for JCIC
July - September, 2015
From Frank Bohac system <https://bconserv.com/dss/default.asp>
As of 10/29/15

Account Number	Account Name	Acctng Period	Transaction Code	Transaction Date	Transaction Description	Total Expenses
110-3510-517.12-30	Postage	1015	AJ	7/31/2015	POSTAGE	\$6.63
110-3510-517.12-30	Postage	1115	AJ	8/31/2015	POSTAGE	\$4.71
110-3510-517.12-30	Postage	1015	AJ	7/31/2015	UPS	\$47.46
110-3510-517.12-30	Postage	1215	AJ	9/30/2015	POSTAGE	\$4.00
110-3510-517.14-10	Parts-Fleet Maintenance	1115	AJ	8/31/2015	FLEET CHARGES	\$115.35
Total Material & Supplies Services						\$178.15
110-3510-517.20-30	Education & Training Mats	1015	AP	7/6/2015	NATIONAL ACADEM	\$50.00
110-3510-517.20-30	Education & Training Mats	1115	AP	8/5/2015	NATIONAL ACADEM	\$50.00
110-3510-517.20-30	Education & Training Mats	1215	AP	9/2/2015	NATIONAL ACADEM	\$150.00
110-3510-517.20-30	Education & Training Mats	1115	AP	8/29/2015	NATIONAL ACADEM	\$650.00
Total Travel & Training Services						\$900.00
110-3510-517.30-43	Computer Replacement	1115	AJ	8/1/2015	MONTHLY INTRAGO	\$1,197.92
110-3510-517.30-43	Computer Replacement	1015	AJ	7/1/2015	MONTHLY INTRAGO	\$1,197.92
110-3510-517.30-43	Computer Replacement	1215	AJ	9/1/2015	MONTHLY INTRAGO	\$1,197.92
110-3510-517.30-44	IT Support & Maintenance	1015	AJ	7/1/2015	MONTHLY INTRAGO	\$11,939.75
110-3510-517.30-44	IT Support & Maintenance	1215	AJ	9/1/2015	MONTHLY INTRAGO	\$11,939.75
110-3510-517.30-44	IT Support & Maintenance	1115	AJ	8/1/2015	MONTHLY INTRAGO	\$11,939.75
110-3510-517.30-49	GIS Fee	1215	AJ	9/1/2015	MONTHLY INTRAGO	\$1,610.83
110-3510-517.30-49	GIS Fee	1115	AJ	8/1/2015	MONTHLY INTRAGO	\$1,610.83
110-3510-517.30-49	GIS Fee	1015	AJ	7/1/2015	MONTHLY INTRAGO	\$1,610.83
110-3510-517.30-50	Fiber Optics	1015	AJ	7/1/2015	FIBER OPTIC CHA	\$250.00
110-3510-517.30-50	Fiber Optics	1115	AJ	8/1/2015	FIBER OPTIC CHA	\$250.00
110-3510-517.30-58	Self Insurance Charges	1115	AJ	8/1/2015	SELF INSURANCE	\$565.33
110-3510-517.30-58	Self Insurance Charges	1215	AJ	9/1/2015	SELF INSURANCE	\$565.33
110-3510-517.30-58	Self Insurance Charges	1015	AJ	7/1/2015	SELF INSURANCE	\$565.33
110-3510-517.30-87	Building Maintenance	1215	AJ	9/1/2015	MONTHLY INTRAGO	\$541.92
110-3510-517.30-87	Building Maintenance	1115	AJ	8/1/2015	MONTHLY INTRAGO	\$541.92
110-3510-517.30-87	Building Maintenance	1015	AJ	7/1/2015	MONTHLY INTRAGO	\$541.92
Total Intragovernmental Charges						\$48,067.25
110-3510-517.35-32	Electric	1215	AP	10/15/2015	AMERENUE	\$98.00
110-3510-517.35-32	Electric	1215	AP	10/1/2015	HOWARD ELECTRIC	\$236.35
110-3510-517.35-32	Electric	1215	AP	9/15/2015	BOONE ELECTRIC	\$115.12
110-3510-517.35-32	Electric	1215	AP	9/1/2015	HOWARD ELECTRIC	\$190.16
110-3510-517.35-32	Electric	1115	AP	8/17/2015	AMERENUE	\$78.41
110-3510-517.35-32	Electric	1115	AP	8/15/2015	BOONE ELECTRIC	\$125.90
110-3510-517.35-32	Electric	1015	AJ	7/21/2015	UB CHARGE UPDAT	\$147.47
110-3510-517.35-32	Electric	1015	AP	7/1/2015	HOWARD ELECTRIC	\$186.16
110-3510-517.35-32	Electric	1015	AP	7/22/2015	CITY OF COLUMBI	\$384.95
110-3510-517.35-32	Electric	1215	AP	10/1/2015	HOWARD ELECTRIC	\$177.88
110-3510-517.35-32	Electric	1215	AP	9/16/2015	AMERENUE	\$153.31
110-3510-517.35-32	Electric	1215	AJ	9/1/2015	UB CHARGE UPDAT	\$199.72
110-3510-517.35-32	Electric	1215	AP	9/1/2015	HOWARD ELECTRIC	\$218.46
110-3510-517.35-32	Electric	1115	AP	8/18/2015	AMERENUE	\$240.32
110-3510-517.35-32	Electric	1115	AP	8/17/2015	AMERENUE	\$147.49
110-3510-517.35-32	Electric	1015	AP	7/20/2015	AMERENUE	\$240.20
110-3510-517.35-32	Electric	1015	AP	7/1/2015	BOONE ELECTRIC	\$120.51
110-3510-517.35-32	Electric	1015	AP	7/1/2015	HOWARD ELECTRIC	\$248.81
110-3510-517.35-32	Electric	1215	AP	9/23/2015	CITY OF COLUMBI	\$351.37
110-3510-517.35-32	Electric	1015	AP	7/22/2015	CITY OF COLUMBI	\$28.49
110-3510-517.35-32	Electric	1215	AJ	9/22/2015	UB CHARGE UPDAT	\$129.59
110-3510-517.35-32	Electric	1215	AP	9/17/2015	AMERENUE	\$224.20
110-3510-517.35-32	Electric	1215	AP	9/16/2015	AMERENUE	\$77.36
110-3510-517.35-32	Electric	1115	AP	8/1/2015	HOWARD ELECTRIC	\$202.89
110-3510-517.35-32	Electric	1115	AP	8/1/2015	HOWARD ELECTRIC	\$208.49
110-3510-517.35-32	Electric	1115	AP	8/1/2015	BOONE ELECTRIC	\$127.37
110-3510-517.35-32	Electric	1015	AJ	7/31/2015	UB CHARGE UPDAT	\$211.22
110-3510-517.35-32	Electric	1215	AP	9/23/2015	CITY OF COLUMBI	\$25.85
110-3510-517.35-32	Electric	1215	AP	10/15/2015	AMERENUE	\$50.57
110-3510-517.35-32	Electric	1215	AP	9/1/2015	BOONE ELECTRIC	\$127.81
110-3510-517.35-32	Electric	1115	AJ	8/21/2015	UB CHARGE UPDAT	\$171.05
110-3510-517.35-32	Electric	1015	AP	7/17/2015	AMERENUE	\$76.09

Actual Expenses for JCIC

July - September, 2015

From Frank Bohac system <https://bconserv.com/dss/default.asp>

As of 10/29/15

Account Number	Account Name	Accntng Period	Transaction Code	Transaction Date	Transaction Description	Total Expenses
110-3510-517.35-32	Electric	1015	AP	7/17/2015	AMERENUE	\$141.29
110-3510-517.35-32	Electric	1015	AP	7/15/2015	BOONE ELECTRIC	\$118.68
110-3510-517.35-32	Electric	1015	AJ	7/1/2015	UB CHARGE UPDAT	\$160.80
110-3510-517.35-32	Electric	1115	AP	8/24/2015	CITY OF COLUMBI	\$411.07
110-3510-517.35-32	Electric	1115	AP	8/24/2015	CITY OF COLUMBI	\$29.01
110-3510-517.35-33	Telephone	1115	AP	8/6/2015	CENTURYLINK	\$713.44
110-3510-517.35-33	Telephone	1015	AJ	7/31/2015	TELEPHONE 07/20	\$617.50
110-3510-517.35-33	Telephone	1115	AP	7/23/2015	CENTURYLINK	\$1,878.65
110-3510-517.35-33	Telephone	1215	AP	9/6/2015	CENTURYLINK	\$713.44
110-3510-517.35-33	Telephone	1015	AP	6/23/2015	CENTURYLINK	\$1,852.34
110-3510-517.35-33	Telephone	1215	AP	9/23/2015	CENTURYLINK	\$1,958.55
110-3510-517.35-33	Telephone	1015	AP	7/31/2015	LANGUAGE LINE S	\$93.62
110-3510-517.35-33	Telephone	1015	AP	7/6/2015	CENTURYLINK	\$713.44
110-3510-517.35-33	Telephone	1215	AJ	9/30/2015	TELEPHONE 09/20	\$617.50
110-3510-517.35-33	Telephone	1115	AP	8/31/2015	LANGUAGE LINE S	\$256.01
110-3510-517.35-33	Telephone	1215	AP	8/23/2015	CENTURYLINK	\$1,879.66
110-3510-517.35-33	Telephone	1115	AJ	8/31/2015	TELEPHONE 08/20	\$617.50
110-3510-517.35-37	Storm Water	1215	AJ	9/1/2015	UB CHARGE UPDAT	\$4.00
110-3510-517.35-37	Storm Water	1015	AJ	7/1/2015	UB CHARGE UPDAT	\$4.00
110-3510-517.35-37	Storm Water	1015	AJ	7/31/2015	UB CHARGE UPDAT	\$4.00
110-3510-517.35-38	Wireless Communications	1115	AP	8/26/2015	AT&T MOBILITY	\$114.33
110-3510-517.35-38	Wireless Communications	1115	AP	8/9/2015	SPRINT/NEXTEL	\$37.99
110-3510-517.35-38	Wireless Communications	1015	AP	7/9/2015	SPRINT/NEXTEL	\$37.99
110-3510-517.35-38	Wireless Communications	1015	AP	7/26/2015	AT&T MOBILITY	\$114.33
110-3510-517.35-38	Wireless Communications	1215	AP	9/26/2015	AT&T MOBILITY	\$118.94
110-3510-517.35-38	Wireless Communications	1215	AP	9/9/2015	SPRINT/NEXTEL	\$37.99
110-3510-517.45-90	Rentals	1215	AP	9/24/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1115	AP	8/25/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1015	AP	7/30/2015	WYATT, JIMMIE	\$1,304.77
110-3510-517.45-90	Rentals	1015	AP	7/27/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1015	AP	6/26/2015	CONTEMPORARY BR	\$1,222.51
110-3510-517.45-90	Rentals	1215	AP	9/24/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1215	AP	9/1/2015	UMC/CURATORS -	\$315.00
110-3510-517.45-90	Rentals	1115	AP	8/25/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1115	AP	8/1/2015	UMC/CURATORS -	\$315.00
110-3510-517.45-90	Rentals	1015	AP	7/27/2015	USCOC OF GREATE	\$225.10
110-3510-517.45-90	Rentals	1015	AP	7/1/2015	UMC/CURATORS -	\$315.00
110-3510-517.45-90	Rentals	1115	AP	8/30/2015	AMERICAN TOWERS	\$600.00
110-3510-517.45-90	Rentals	1115	AP	8/30/2015	SPECTRASITE COM	\$515.00
110-3510-517.45-90	Rentals	1215	AP	8/26/2015	CONTEMPORARY BR	\$1,222.51
110-3510-517.45-90	Rentals	1115	AP	7/29/2015	CONTEMPORARY BR	\$1,222.51
110-3510-517.45-90	Rentals	1015	AP	7/29/2015	AMERICAN TOWERS	\$600.00
110-3510-517.45-90	Rentals	1015	AP	7/29/2015	SPECTRASITE COM	\$515.00
110-3510-517.45-92	Equipment Rentals	1215	AP	9/1/2015	MIDWEST PAGING	\$21.45
110-3510-517.45-92	Equipment Rentals	1115	AP	8/1/2015	MIDWEST PAGING	\$21.45
110-3510-517.45-92	Equipment Rentals	1015	AP	7/1/2015	MIDWEST PAGING	\$21.45
110-3510-517.48-01	Maintenance Agreements	1015	AP	7/9/2015	MSHP CJ TECH FU	\$387.45
110-3510-517.48-01	Maintenance Agreements	1115	AP	8/1/2015	INFORMER SYSTEM	\$9,720.00
110-3510-517.48-10	Vehicle Maintenance	1115	AJ	8/31/2015	FLEET CHARGES	\$227.36
110-3510-517.48-20	Equipment Maintenance	1115	AP	8/17/2015	SPECTRUM ANTENN	\$1,330.00
110-3510-517.48-20	Equipment Maintenance	1015	AP	7/2/2015	SPECTRUM ANTENN	\$1,330.00
110-3510-517.48-20	Equipment Maintenance	1115	AP	8/19/2015	CALL ONE INC	\$75.49
110-3510-517.48-20	Equipment Maintenance	1215	AP	9/11/2015	WIRELESSUSA/COL	\$897.50
110-3510-517.48-20	Equipment Maintenance	1115	AP	8/25/2015	WIRELESSUSA/COL	\$92.00
110-3510-517.49-90	Miscellaneous Contractual	1015	AP	7/1/2015	LISA ARNOLD CLE	\$585.00
110-3510-517.49-90	Miscellaneous Contractual	1215	AP	10/1/2015	LISA ARNOLD CLE	\$734.63
110-3510-517.49-90	Miscellaneous Contractual	1115	AP	8/1/2015	LISA ARNOLD CLE	\$667.42
110-3510-517.49-90	Miscellaneous Contractual	1215	AP	9/1/2015	LISA ARNOLD CLE	\$585.00
110-3510-517.49-90	Miscellaneous Contractual	1215	AJ	9/25/2015	EZ PARK: JOINT	\$80.00
110-3510-517.49-90	Miscellaneous Contractual	1115	AP	8/3/2015	ROTTLER PEST &	\$30.00
110-3510-517.49-90	Miscellaneous Contractual	1115	AP	8/3/2015	ROTTLER PEST &	\$35.00

Actual Expenses for JCIC

July - September, 2015

From Frank Bohac system <https://bconserv.com/dss/default.asp>

As of 10/29/15

Account Number	Account Name	Accntng Period	Transaction Code	Transaction Date	Transaction Description	Total Expenses
	Total Utilities, Services, & Miscellaneous					\$44,906.74
	Total Quarterly Expenses					\$94,052.14

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

November Session of the October Adjourned

Term. 20 15

County of Boone

} ea.

In the County Commission of said county, on the

24th

day of

November

20 15

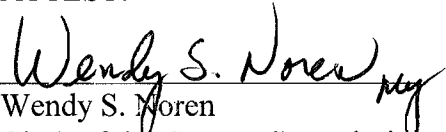
the following, among other proceedings, were had, viz:


Now on this day the County Commission of the County of Boone does hereby approve the following budget revision for the Public Works Department for the purchase of a small plow and spreader to be installed on a recently acquired one-ton truck.

Department	Account	Department Name	Account Name	Decrease \$	Increase \$
2040	92300	PW	Replacement Equipment	10,250	
2040	91300	PW	Machinery & Equipment		10,250

Done this 24th day of November, 2015.

ATTEST:


 Wendy S. Noren
 Clerk of the County Commission


 Daniel K. Atwill
 Presiding Commissioner


 Karen M. Miller
 District I Commissioner


 Janet M. Thompson
 District II Commissioner

BOONE COUNTY, MISSOURI
REQUEST FOR BUDGET REVISION

Please return purchase req with
 back-up to Auditor's Office.

11/10/15
 EFFECTIVE DATE

NOV 10 2015

FOR AUDITORS USE

BOONE COUNTY AUDITOR

(Use whole \$ amounts)
 Transfer From Transfer To
 Decrease Increase

Dept	Account	Fund/Dept Name	Account Name	Transfer From Decrease	Transfer To Increase
2040	92300	PW	Replacement Equipment	10,250	
2040	91300	PW	Machinery + Equipment		10,250
				10,250	10,250

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 necessary):

The Public Works Department is requesting to purchase a small plow and spreader to be installed on a recently acquired one-ton truck. The addition of another small plow truck to the fleet would increase coverage in Subdivisions during snow events and potentially fill in for other units if one of them is "downed" due to mechanical failure.

PURCHASE PLOW + SPREADER

Do you 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):

[Signature]
 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:

Agenda

[Signature] Auditor's Office
[Signature] PRESIDENT COMMISSIONER
[Signature] DISTRICT I COMMISSIONER
[Signature] DISTRICT II COMMISSIONER

Boone County Public Works

Gregory P. Edington
Assistant Manager
Maintenance Operations Division



5551 Tom Bass Road
Columbia, Missouri 65201-9711
(573) 449-8515 ext (226)
FAX (573) 875-1602
EMAIL: gedington@boonecountymo.org

Date: November 10, 2015

To: Boone County Commissioners

From: Greg Edington

Subject: 2015 additional equipment purchases

The Public Works Dept. (2040) is requesting to purchase a small plow and spreader to be installed on a recently acquired (2015) one ton truck. The addition of another small plow truck to the fleet would increase coverage in Subdivisions during snow events and potentially fill in for other units if one of them is "downed" due to a mechanical failure. To facilitate the purchase we will need to initiate a budget revision to move funds (cost savings) from 2040-92300 to 2040-91300. The amount needed to secure the purchases would be approximately \$10,250.

The Department is also in need of replacing two buckets for skid steers due to excessive wear on the back side of the buckets. The cost for repair has been determined to exceed the cost of new buckets. A proposal from Bobcat of St. Louis lists an 80" bucket at \$2,200 for an extended total of \$4,400 for both. The department is requesting to utilize cost savings in 2040-92300 to fund the purchase.

Year	<u>2015</u>	Original Appropriation	<u>696,740.00</u>
Dept	<u>2040 PW-MAINTENANCE OPERATIONS</u>	Revisions	<u>5,262.00</u>
Acct	<u>92300 REPLCMENT MACH & EQUIP</u>	Original, + Revisions	<u>702,002.00</u>
Fund	<u>204 ROAD & BRIDGE FUND</u>	Expenditures	<u>260,553.00</u>
		Encumbrances	<u>127,257.64</u>
Class/Account	<u>A ACCOUNT</u>	Actual To Date	<u>387,810.64</u>
Account Type	<u>E EXPENSE</u>	Remaining Balance	<u>314,191.36</u>
Normal Balance	<u>D DEBIT</u>	Shadow Balance	<u>314,191.36</u>

Expenditures by Period

January	_____	July	<u>48,299.00</u>
February	_____	August	_____
March	_____	September	_____
April	<u>212,254.00</u>	October	_____
May	_____	November	_____
June	_____	December	_____

F2=Key Scr F3=Exit F5=Ledger Transactions F7=Transactions F9=Budget

CERTIFIED COPY OF ORDER

STATE OF MISSOURI }
County of Boone } ea.

November Session of the October Adjourned

Term. 20 15

In the County Commission of said county, on the 24th day of November 20 15

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

Now on this day the County Commission of the County of Boone does hereby rescind Commission Order 553-2015. The closed session meeting has been rescheduled from November 24, 2015 to December 1, 2015.

Done this 24th day of November, 2015.

ATTEST:

Wendy S. Noren
Wendy S. Noren
Clerk of the County Commission

Daniel K. Atwill
Daniel K. Atwill
Presiding Commissioner

Karen M. Miller
Karen M. Miller
District I Commissioner

Janet M. Thompson
Janet M. Thompson
District II Commissioner

CERTIFIED COPY OF ORDER

STATE OF MISSOURI

} ea.

November Session of the October Adjourned

Term. 20 15

County of Boone

24th

day of

November

20 15

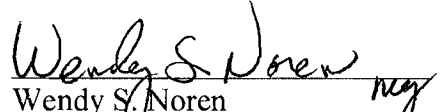
In the County Commission of said county, on the


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

Now on this day the County Commission of the County of Boone does hereby authorize a closed meeting on Tuesday, December 1, 2015, at 2:00 p.m. The meeting will be held in the Conference Room 338 of the Roger B. Wilson Boone County Government Center at 801 E. Walnut, Columbia, Missouri, as authorized by RSMo 610.021(1), to discuss legal actions, causes of action or litigation involving a public governmental body and any confidential or privileged communications between a public governmental body or its representatives and its attorneys.

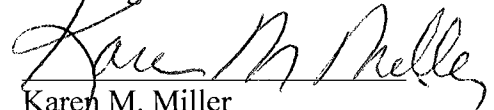
Done this 24th day of November, 2015.

ATTEST:

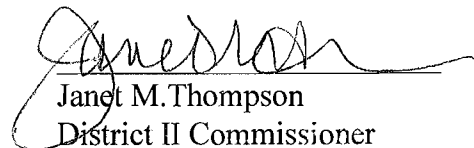

Wendy S. Noren
Clerk of the County Commission



Daniel K. Atwill
Presiding Commissioner



Karen M. Miller
District I Commissioner



Janet M. Thompson
District II Commissioner