

AGREEMENT BETWEEN

JACKSON COUNTY, KS AND E.E.S. LLC
RS and OFF-SYSTEM BIENNIAL BRIDGE INSPECTION

This Agreement is made and entered into on the last date executed below, by and between the Jackson County, KS hereinafter referred to as the COUNTY, and E.E.S. LLC hereinafter referred to as the CONSULTANT.

Witnesseth:

WHEREAS, the Highway Bridge Replacement and Rehabilitation portion of the law requires that all structures defined as bridges located on public roads must be inspected on a cycle, not to exceed two years in accordance with National Bridge Inspection Standards (NB1S); and

WHEREAS, the COUNTY has requested the CONSULTANT retained by the COUNTY to inspect and analyze all public bridges located on its RS and Off-System in compliance with the National Bridge inspection Standards; and

WHEREAS, the COUNTY and the CONSULTANT are authorized to enter into an agreement for such work.

WHEREAS, the County Commission of the COUNTY has approved the herein above referenced inspections and has agreed to participate in certain costs of \$11,094.00 and to the extent as hereinafter set out.

NOW, THEREFORE, the CONSULTANT agree as follows:

- The biennial bridge inspections shall be conducted in accordance with federal regulations and references listed in Appendix A.
- Bridge Inspection Team Leaders must be on the prequalified inspector's list maintained by KDOT.
- The standard KDOT Bureau of Local Projects Bridge Inspection Form (BIF) shall be used to record the field inspection data. Critical Findings shall be recorded on the standard KDOT Bureau of Local Projects Bridge Inspection Critical Findings form.
- All NBI Data Items shall be verified during the inspection and updated or corrected. This may require coordination with the City/County on AADT and similar items not observable.
- The work performed under this contract is subject to review by the Owner as well as KDOT. If errors or discrepancies are found the Consultant (or LPA if the

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- The work performed under this contract is subject to review by the Owner as well as KDOT. If errors or discrepancies are found the Consultant (or LPA if the

inspection is performed by the LPA) shall be required to make corrections at no additional cost. KDOT will perform QC/QA evaluations of bridge inspections including field reviews, review of ratings, bridge inspection files, and data entry. Substandard work is grounds for removal of the inspector from the KDOT prequalified list.

- The Owner has 192 bridges to be inspected.
- Bridges not currently in the inventory or bridges that have had major rehabilitation work require an Inventory Inspection using the Inventory Inspection form in the KDOT BLP Bridge Inspection manual. The Owner has 5 bridges requiring an Inventory Inspection. However, new inventory inspection reports will be considered an additional contract item to be negotiated between the Consultant and County.
- Review scour assessment information in the bridge folder, and report if the information is inadequate or needs updating. Scour analysis are not part of this agreement. However, scour analysis can be performed as an additional contract item to be negotiated between the Consultant and County.
- Review load rating information in the bridge folder, and report if the information is inadequate or needs updating. Load rating calculations are not part of this agreement. However, load ratings analysis can be performed as an additional contract item to be negotiated between the Consultant and County.
- Review fracture critical information in the bridge folder, and report if the information is inadequate. . Fracture Critical Inspections are not part of this agreement. However, fracture critical inspection can be performed as an additional contract item to be negotiated between the Consultant and County.
- Review photographs in the bridge file; add any required photos that are not in the bridge folder. Provide new photographs of items as necessary to adequately document significant deficiencies, changed conditions, or repairs needed a minimum of 1 picture per bridge
- The Inspection Data will be entered in the KDOT BLP Bridge Inspection Web Portal no later than 30 days following the bridge inspection. All NBI Data Items in the existing database are to be checked while performing data entry, and errors in the data shall be corrected.
- During the inspection, Critical Findings shall be reported to the bridge owner immediately by the most expedient method.
- During the inspection, weight limits sign missing or other items affecting the safety of the public or integrity of the bridge shall be reported to the bridge owner immediately by the most expedient method.

- Deliverables: Provide 5 copies of the report summarizing bridge inspection results of the maintenance recommendation report. Provide 5 copies of bridge index max with bridge numbers. Provide 2 Copies of the Maintenance Recommendation Report. Provide 3 copies of inventory and operating ratings with ratings for all 5 truck types for each bridge. All reports shall be in compliance with the KDOT Bridge Inspection Manual as well as outlined in Randy Pool's letter dated 3/30/12 (RFP for Biennial Bridge Inspections If applicable the Critical Findings forms must be submitted to KDOT BLP within one (1) week of the inspection.
- All work shall be performed and data entered into the KDOT portal within 30 days of the required inspection date. Required reports and assembly of updates to the bridge folder shall be completed within 30 days of the completion of the field inspection.

NOW, THEREFORE, the COUNTY agrees as follows:

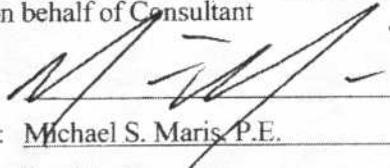
- Shall furnish all data in the possession of the County that can be released that will help the Consultant in the accomplishment of the work including but not limited to appropriate municipal maps showing the location of the bridges, plans for the bridges when available, and any prior inspection reports.

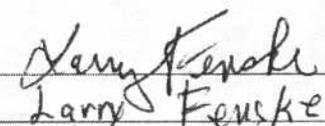
Upon completion of the bridge inspection, and analysis work, the Consultant shall invoice the County for the agreed costs of \$11,094.00. Reimbursement shall be made by the County within thirty (30) days of the invoice date.

CONSULTANT

COUNTY

I hereby certify that I have authority to execute this contract on behalf of Consultant

By: 
 Name Printed: Michael S. Maris, P.E.
 Title: President
 Date: April 18, 2012

By: 
 Name Printed: Larry Fenske
 Title: Chairman
 Date: 4/23/12

(Affix Corporate Seal) "NO SEAL"

Approved as to form:


 County Administrator

APPENDIX A STUDY PROCEDURES AND DESIGN CRITERIA

The procedures followed in the field inspection of the bridges and the criteria utilized in the subsequent structural analyses and weight limit ratings, where performed, were derived from the following reference sources, current editions:

1. American Association of State Highway and Transportation Officials (AASHTO) The Manual for Bridge Evaluation
2. KDOT BLP 2012 Bridge Inspection Manual
3. Report No. FHWA-PD-96-001, Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges
4. KDOT Design Manual, Volume III, Bridge Section, Bridge Load Rating
5. KDOT "Supplemental Coding Guide for Bridge Inspection and Rating"
6. Manual on Uniform Traffic Control Devices
7. Report No. FHWA-IP-86-26, Inspection of Fracture Critical Bridge Members
8. FHWA Bridge Inspector's Reference Manual

APPENDIX B WORK FEE BREAKDOWN

1. <u>Field Work:</u>	192 Bridges @	\$42.00	<u>\$8,064.00</u>
2. <u>Office Work:</u>	192 Bridges @	\$15.00	<u>\$2,880.00</u>
3. <u>New Inventory Extra Work:</u>	5 Bridges @	\$30.00	<u>\$150.00</u>
4. <u>Grand Total:</u>	192 Bridges @		<u>\$11,094.00</u>

Average Cost Per Bridge \$57.78

Any additionally work negotiated with Consultant and County will be at the rate of:

Direct Cost + Overhead + 10% Profit

INSPECTION RATES

Bridge Type	Cost	
Routine Inspection	\$ 105 per bridge	
Inventory Inspection	\$ 270 per bridge	
Fracture Critical Inspection	\$2,100 per bridge	
Total Estimated Project Cost		\$ 21,405

*Price shall be adjusted for number of fracture critical inspection.

TIME FRAME

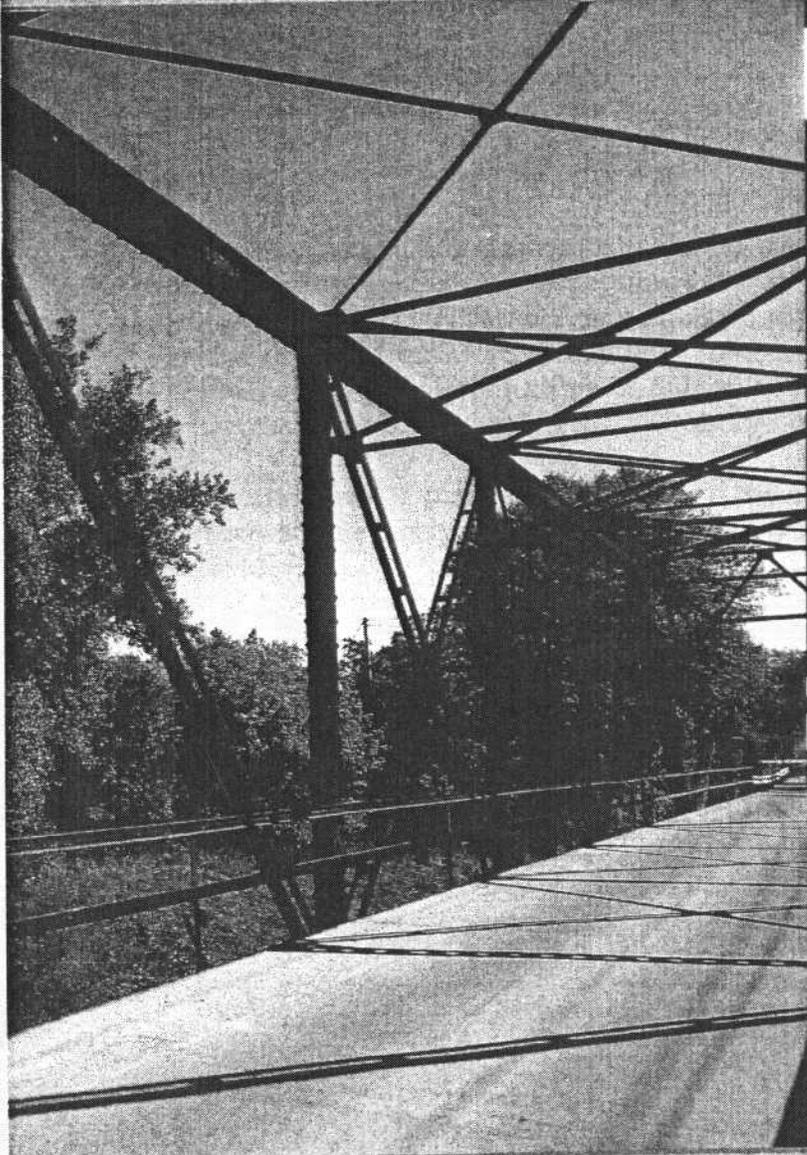
The project will be completed within 90 days of commencement.

2-2071M

JACKSON CO.

BIENNIAL BRIDGE INSPECTION

2012



APRIL 23, 2012

BG Consultants
Engineers • Architects • Surveyors

Moni El-Aasar, Ph.D, P.E., F.ASCE
4806 Vue Du Lac Place
Manhattan, Kansas 66502
moni@bgcons.com
(785) 537-7448

Section 1

Section 2

Section 3

Section 4

Proposed Fee

CFS Engineers proposes to provide the required services to Jackson County for a Lump Sum of \$20,965.00. Costs are broken down as follows:

<u>Type of Inspection</u>	<u>No. of Bridges</u>	<u>Cost per site</u>	<u>Total Cost</u>
Routine Bridge Inspections	191	\$65.00	\$12,415.00
Inventory Bridge Inspections	5	\$70.00	\$350.00
		Total Bridge Inspections	\$12,765.00

*Fracture Critical Inspections (4)

<u>Bridge Number</u>	<u>Type</u>	<u>Cost</u>
N-304	2-Girder	\$100.00
R-324	Truss	\$4,000.00
238-S7	2-Girder	\$100.00
BSN 490	Truss	\$4,000.00
	Total Fracture Critical Inspection	\$8,200.00

GRAND TOTAL \$20,965.00

*It should be noted that Fracture Critical Inspections (FCI) are offered by CFS, but the first cycle of FCI will be performed by KDOT-BLP and may not be required at this time. It may be beneficial to Jackson County to delay the FCI at this time.



Glenn Pataky
President



Mid-Continent Micrographics, Inc.

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Email: glennpataky@midcontmicro.com



Jackson County Road & Bridge, Room 106
400 New York
Holton, KS. 66436

The following is a break down on the items that you wish to have put onto archival security microfilm for long term storage with a Digital copy on DVD returned for to you for your office use.

- 1 Jackson County Map 1967. \$17.50
- 15 Loose onion skin maps \$17.50 each = \$262.50
- 1 Road Record 1858-1872. \$129.00
- 1 Rural Resident Locator maps. \$595.00
- 1 Raod Record 20X14 \$700.00.
- 1 Record of Bridges \$59.00
- Road Record 1 19.5 X 14 \$189.00
- Road Record 2 \$189.00
- Road Record 3 \$210.00
- Road Record 4 \$175.00
- Road Closings. \$189.00
- 53 7 1/2 X 5 1/2 Field Notes and Surveys @ \$23.00 each for \$1,219.00

MAR 21 2012

Total for this project is \$3,934.00.

This includes pick-up and delivery back to you courthouse. All records will be picked up on a Friday and returned on the following Monday to keep them out of your office for as little as possible. The small Field Notes and Survey books will need to be out for a longer period of time.

Archival film will be created for long term security back-up storage.

Digital images of all records will be created and will be delivered back to you on DVD's for easy reference.

Should you wish for us to schedule this work, please have this proposal signed and dated below and fax back to me.

Sincerely,

Glenn Pataky

Approved by:

Sam Fenske

Date:

4/23/12