

**CONTRACT  
FOR  
ENGINEERING SERVICES  
BETWEEN  
SEDGWICK COUNTY, KANSAS  
AND  
Parsons Brinckerhoff, Inc.**

**THIS CONTRACT MADE THIS \_\_\_\_ DAY OF \_\_\_\_\_ BY AND BETWEEN:**

**THE BOARD OF COUNTY COMMISSIONERS  
OF SEDGWICK COUNTY, KANSAS**

**Party of the First Part, hereinafter**

**called the**

**"COUNTY"**

**and**

**Parsons Brinckerhoff, Inc.**

**Party of the Second Part, hereinafter**

**called the**

**"CONSULTANT"**

WITNESSETH: WHEREAS the COUNTY has resolved to improve the following bridge structures administered by Sedgwick County hereinafter referred to as the PROJECT, to wit:

Project	Anticipated Improvement	Fee	Letting Date
CIP No.: B-453 Bridge No.: 787-U-2640 263 <sup>rd</sup> St. West over Clear Creek	3-Span RC Haunched Slab or PT Slab, two lanes 12' and 4' shoulders	\$59,300	July 2013
CIP No.: B-456 Bridge No.: 807-Y-3005 103 <sup>rd</sup> St. West over Spring Creek	3-Span RC Haunched Slab, two lanes 12' and 4' shoulders	\$59,300	July 2013

### PROJECT SCOPE

In accordance with the CONSULTANT's proposal to the Sedgwick County Public Works Department on January 17<sup>th</sup>, 2012, a copy of which has been submitted to the COUNTY and made a part hereof, Parsons Brinckerhoff, Inc. ("PB") agrees to conduct those engineering services described in said proposal for the COUNTY's bridges listed above.

The above referenced bridge replacement project shall consist of replacing the existing bridges and associated approach roadway. The project will be administered by Sedgwick County Public Works Department. The bridge approach grading shall be minimum possible to make transitions to existing roadway widths and profile. The bridge channel work shall be kept to minimum possible to accommodate approval by USCOE, DWR and other pertinent permitting agencies. The bridge crossing is located outside of any regulated floodway, but the existing hydraulic characteristics will not be compromised. The survey and plans will be performed in US Customary units. Bridge design shall be designed as per AASHTO LRFD standards specification and KDOT Bridge Manual. Traffic shall be closed during construction. The following items are included in the Scope of Services:

- Surveys (ground as needed)
- Geotechnical investigation for bridge foundation design (as acceptable per COUNTY requirements)
- Drainage, hydrology & hydraulics including meetings with the CORPS and DWR.
- Grading, Paving, Seeding, Structures, Guard Fence and Traffic Control Plans (Preliminary & Final)
- Right-of-way / Easement Descriptions
- Utility Coordination
- Permit Application Assistance
- Cost Estimates
- Special Provisions

## SCOPE OF SERVICES BY CONSULTANT

Refer to Sedgwick County Public Works Design Requirements and scope of services which is attached to this agreement as exhibit "A".

### A. Surveys:

1. Ground survey shall be used for Topography, Contours and Cross-sections with a 3" vertical accuracy. Digital Terrain Modeling (DTM) will be used for obtaining cross-section data.
2. Refer to exhibit "A" section 2 for survey scope of services.
3. Horizontal alignment will be established using Section Corners and POT's.
4. Survey scope shall include topography, land use, contours, buried structures (drainage culverts etc.), utilities, and existing bridge.
5. COUNTY will provide assistance in obtaining information regarding existing Road Records, Right-of-Way and Easement.
6. In the event Section Corners cannot be found, COUNTY will re-establish Section Corners at no expense to the CONSULTANT.

### B. Geology:

1. Subsurface geological investigation for bridge foundation shall consist of 3 borings at each site to determine bridge foundation design (Pilings and/or Drilled Shaft as needed).

### C. Roadway Design:

1. The approach roadway limit shall be kept to minimum possible between touchdown points as a result of new bridge replacement layout.
2. The project shall be designed for no more than 55 mph using AASHTO specifications and Sedgwick County Standards.
3. The anticipated maximum length of approach roadway work is no more than 150' at each end of the bridge.
4. Unless needed for erosion control and stream stabilization, channel work shall be kept to a minimum or none.
5. Traffic shall be closed during construction.
6. Roadway Pavement design (type of pavement and thickness) will be provided by the COUNTY.

D. Bridge Design:

1. The anticipated new bridge type and approximate geometry are as shown in the proposal submitted to the COUNTY dated January 17<sup>th</sup>, 2012.
2. Bridges shall be designed in accordance with AASHTO specifications and KDOT standards and for LRFD Loading.

E. General:

1. The scope shall follow Sedgwick County Public Works design requirements Exhibit "A"
2. The scope shall include Right-of-Way plans and Legal Descriptions.
3. The CONSULTANT shall prepare Utility Coordination Plans to assist the COUNTY for Utility Coordination.
4. The CONSULTANT shall submit all technical data, plans and permit application fees to assist the COUNTY in obtaining permits from permitting agencies including USCOE, DWR, KWPD, and KDHE.
5. Final Construction Cost Estimate shall be provided to the COUNTY at all milestone submittals. Best efforts shall be made during the design to contain the total construction cost estimate within the Sedgwick County CIP Budget.
6. KDOT Standard Specifications for Road & Bridge Construction shall be used, unless otherwise directed by the COUNTY. The design and plan preparation shall conform to Sedgwick County Bridge Design Guidelines and CAD Drawings Guideline attached to this contract (Exhibit "A" section 1.18).

Plan Preparation Procedure:

1. Standard Sedgwick County procedure shall be followed – Field Check Plans, Office Check Plans and Final Plans.
2. All design and plans shall be prepared in US Customary units.
3. All plans and specifications shall be as per COUNTY and KDOT letting.
4. The total number of plan sets to be submitted for each milestone shall be as follows:  
Field Check – 2 Sets to the COUNTY  
Office Check – 2 Sets to the COUNTY  
Final Plans – 1 Set to the COUNTY  
ROW Plans – 3 Sets to the COUNTY

5. Plans submission shall be per Sedgwick County Public Works Design Requirements and Scope of Services as described in exhibit "A". No mylar submission per same document.
6. Utility Submittals – 1 Set (partial) to each Utility Company and 1 Master Set to the COUNTY
7. Permit Application Process – 1 Set (partial) for each agency

**THE CONSULTANT AGREES**

- A. To provide the various technical and professional services, equipment, material and transportation to perform the tasks as outlined in the Scope of Services.
- B. To make available during regular office hours at his/her Wichita office all reports, calculations, sketches, and drawings relating to the plans and specification such as the COUNTY may wish to examine periodically during the performance of this Agreement.
- C. To commence work on the PROJECT within ten (10) days following receipt of written Notice to Proceed from the Director of Public Works, agent for the COUNTY, and to complete the services outlined in the Scope of Services as follows:
  1. Final Right-of-Way Plans, Legal Descriptions and Utility Coordination Plans shall be submitted on or before January 15, 2013.
  2. Final Budget Construction Cost Estimate on or before 30 days preceding the date of letting.
  3. Final Originals, Project Special Provisions and Construction Cost Estimates 30 days before letting date.
  4. The schedule will adhere to Sedgwick County project report/schedule for letting.
  5. The anticipated letting year is stated above.
- D. To the fullest extent permitted by law, to indemnify and hold the COUNTY and COUNTY's authorized employees harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) to the extent caused by the CONSULTANT's negligent act, errors or omissions in performance of professional services under this Agreement and those of CONSULTANT's subconsultants or anyone for whom the CONSULTANT is legally liable.
- E. CONSULTANT shall procure and maintain such insurance as will protect the CONSULTANT from damages resulting from errors, omissions and negligent acts of the CONSULTANT, its agents officers, employees and subcontractors in the performance of the professional services rendered under this Agreement and for which he is legally liable. Such policy of insurance shall be in an amount no less than \$1,000,000. Satisfactory

Certificates of Insurance shall be filed with the COUNTY prior to the time CONSULTANT begins any work under this Agreement.

- F. CONSULTANT shall maintain throughout the period of this Agreement and for a period of three years thereafter, a standard form of errors and omissions insurance with an insurance company satisfactory to the COUNTY. CONSULTANT shall also maintain insurance coverage for comprehensive general liability, automobile liability and workers' compensation in forms and amounts satisfactory to COUNTY. CONSULTANT shall require that any and all consultants engaged or employed by CONSULTANT carry and maintain similar insurance with reasonable prudent limits and coverages in light of the services to be rendered by such consultants. CONSULTANT shall furnish to COUNTY Accord form, Certificate of Insurance that specify insurance coverage limits in force at the time. The insurance policies shall incorporate a provision requiring written notice to the COUNTY at least thirty (30) days prior to any cancellation or non-renewal of the policies.
- G. CONSULTANT covenants and agrees that the design contemplated hereunder and the work shall comply with applicable federal, state and local laws, rules and regulations.

#### **THE COUNTY AGREES**

In order to assist the CONSULTANT in the provision of professional services, the COUNTY will provide:

1. The name of a representative to whom the CONSULTANT will report and from whom CONSULTANT will receive review comments, instructions, directions, and authorizations;
2. Such legal and accounting services, if any, which may be necessary to complete the PROJECT;
3. Any and all existing data concerning the PROJECT that may be available, including traffic data, historic high-water records, right-of-way, easements, land use and ownership involved.
4. All existing survey information including section ties, and reference bench marks in the PROJECT area.
5. All required permits from agencies including, but not limited to Corps of Engineers, Kansas Division of Water Resources, Kansas Department of Health & Environment, U.S. Department of Agriculture, etc. with CONSULTANT providing data and documentation.
6. Final Specifications and Bid Documents

## **FEES AND PAYMENTS**

The COUNTY will compensate the CONSULTANT for the provisions of the professional services described herein a Lump Sum amount not to exceed one hundred and eighteen thousand and six hundred dollars (\$ 118,600.00). Said lump sum amount shall constitute complete payment for all professional services, direct and all other costs incidental to the work.

Any additional scope of work incurred, beyond the scope of services and not caused by the CONSULTANT shall be paid for by the COUNTY with the CONSULTANT obtaining prior approval from the COUNTY. The amount for the out-of-scope services shall be mutually agreed upon prior to the commencement of the additional work. Payment shall be made on a monthly basis upon submission of a proper invoice in an amount equal to the percent of work completed in the preceding month. All invoices shall be due and payable within 30 calendar days.

## **THE PARTIES HERETO MUTUALLY AGREE**

- A. That the right is reserved to the COUNTY to terminate this Agreement at any time, upon written notice, in the event the PROJECT is to be abandoned or indefinitely postponed, or because of the CONSULTANT'S inability to proceed with the work, or because the services of the CONSULTANT are unsatisfactory; provided, that in any case the CONSULTANT shall be paid the reasonable value of the services rendered up to the time of termination on the basis of the provisions of this Agreement, but in no case shall payment be more than the CONSULTANT'S actual cost (salary, overhead and direct expenses) plus a reasonable sum (15%) for fixed fee for profit based on the salary and overhead costs only.
- B. In the event of unavoidable delays in the progress of the work contemplated by this Agreement, i.e., acts of God and/or natural disasters or war, extensions in the time allotted for the work will be granted in writing by the COUNTY provided, however, that the CONSULTANT shall request extensions in writing giving the reasons therefore.
- C. The CONSULTANT agrees to comply with and/or to the following additional provisions with respect to his performance and obligation under this Agreement:
  - 1. The CONSULTANT shall observe the provisions of the Kansas Acts Against Discrimination and shall not discriminate against any person in the performance of work under the present contract because of race, religion, color, sex, physical handicap unrelated to such person's ability to engage in the particular work, national origin or ancestry;

2. In all solicitations or advertisements for employees, the CONSULTANT shall include the phrase "equal opportunity employer" or a similar phrase to be approved by the Kansas Human Rights Commission;
  3. If the CONSULTANT fails to comply with the manner in which the CONSULTANT reports to the Kansas Human Rights Commission in accordance with the provisions of K.S.A. 44-1031, and amendments thereto, the CONSULTANT shall be deemed to have breached the present contract and it may be canceled, terminated, or suspended, in whole or in part, by the COUNTY;
  4. If the CONSULTANT is found guilty of a violation of the Kansas Acts Against Discrimination under a decision or order of the Kansas Human Rights Commission which has become final, the CONSULTANT shall be deemed to have breached the present Agreement and it may be canceled, terminated or suspended, in whole or in part, by the COUNTY;
  5. The CONSULTANT shall include the provision of the above paragraphs 1 through 4, inclusively, in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor.
- D. That the services to be performed by the CONSULTANT under the terms of this Agreement are personal and cannot be assigned, sublet or transferred without specific consent of the COUNTY.
- E. That this Agreement shall be binding upon the parties hereto, their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed to their duly authorized officers as of the date first written above.

APPROVED AS TO FORM:



Robert W. Parnacott  
Assistant County Counselor

Date: 2/24/12

RECOMMENDED FOR APPROVAL

BOARD OF COUNTY COMMISSIONERS  
SEDGWICK COUNTY, KANSAS

\_\_\_\_\_  
David C. Spears, P.E.  
County Engineer

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

\_\_\_\_\_  
Tim R. Norton  
Chairman

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

\_\_\_\_\_  
Kelly B. Arnold  
County Clerk

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

**Parsons Brinckerhoff, Inc..**



Alfred Craig  
Vice President

Date: 2/23/2012

\_\_\_\_\_  
Witness

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



## Exhibit " A "

# **SEDGWICK COUNTY PUBLIC WORKS DESIGN REQUIREMENTS AND SCOPE OF SERVICES**

The Engineering Design Consultant shall furnish the services required for the development of plans, specifications, and estimates of the quantities of work for the designated project in the format and detail required according to this document. This project is expected to be locally administered by Sedgwick County.

**Project Description:** **CIP Project No. B453** - Replacement of Bridge No. 787-U-2640, an 81 ft. continuous steel 2-span bridge built in 1933 with a 24 ft. roadway located on 263<sup>rd</sup> St W between 39<sup>th</sup> and 47<sup>th</sup> St S in southwest Sedgwick County, KS.

NBI No.: 00000000870120

Sufficiency Rating: 34.5 – Structurally Deficient

2010 Traffic Count: 1050

Posted: 15/23/36 Tons

Drainage Area: 20 sq. miles

**Due Date:** Final plans and specifications are anticipated to be due in the third quarter of 2013. An exact submittal date will be determined after consultant selection during the negotiation period.

## **1.0 DESIGN STANDARDS**

- 1.1. U.S. Customary units shall be employed on all projects.
- 1.2. Design standards shall follow the Kansas Department of Transportation (KDOT) Project Development Manual for Non-National Highway System Local Government Road and Street Projects (latest edition).
- 1.3. Plan style and format shall essentially follow that described in the KDOT Design Manuals.
- 1.4. Design bridges according to the American Association of State Highway and Transportation Officials (AASHTO) standards (minimum HS-20 loading).
  - 1.4.1. See Section 3.0 for exceptions.
- 1.5. All construction work and material shall comply with the KDOT Standard Specifications for State Road and Bridge Construction (2007), as well as any KDOT and Sedgwick County special provisions.
- 1.6. All stormwater runoff shall be calculated and managed in accordance with the City of Wichita/Sedgwick County Storm Water Manual (latest version).
- 1.7. Minimum bridge approach grading shall be used to transition roadway width and profiles for bridge specific projects.
- 1.8. Bridge channel work shall be minimized when possible.
- 1.9. Alignment stationing shall be south to north and west to east.
  - 1.9.1. Avoid beginning with Sta. 0+00.
  - 1.9.2. Avoid using the same stationing for multiple alignments, including side roads.

# Exhibit " A"



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Design Requirements and Scope of Services

- 1.10.** North shall be oriented to the top or right side of the sheet.
- 1.11.** The project survey control data should be shown on the first plan-profile sheet. The horizontal and vertical datums shall be per § 2.1.1.
- 1.12.** Cross sections are required on all projects; maximum spacing is 100 ft. and shall be provided at all storm sewer crossings, crossroad pipes, guardrail end points, edge of wearing surfaces of bridges, and any other critical locations deemed necessary by Sedgwick County.
- 1.13.** Traffic control plans shall attempt to balance project cost with road closure time.
  - 1.13.1.** Traffic control measures shall meet the guidelines presented in the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD).
  - 1.13.2.** Traffic is to be closed during construction at any bridge replacement location.
  - 1.13.3.** Local traffic will be carried at all times on either side of the bridge, if applicable, but through traffic may be eliminated in phases if approved by Sedgwick County.
- 1.14.** All hydraulic structures shall be designed to pass 100-year discharges as required by the City of Wichita/Sedgwick County Storm Water Manual.
  - 1.14.1.** Lower discharges may be allowed if justified.
- 1.15.** Use KDOT and Sedgwick County standard detail sheets for plan preparation.
  - 1.15.1.** Consult KDOT Bureau of Local Projects for the use of county standard details when developing plans for Local Public Authority (LPA) administered projects.
- 1.16.** Interim check plans shall be submitted according to § 2.7.3.
- 1.17.** Final plans shall be submitted for production in electronic Portable Document Format (PDF). Use of the PDF/A file format for long-term archival is required, and shall adhere to the following composition:
  - 1.17.1.** Resolution shall be exactly 400 dpi (dots per inch).
  - 1.17.2.** Create PDF files in black and white, using grayscale when shading is necessary for clarity of intent. Do not submit full-color PDF files.
  - 1.17.3.** Use JPEG compression for raster images.
  - 1.17.4.** Submit all plan sheets, including cross sections, as a single multi-page PDF file.
  - 1.17.5.** Create each page in the PDF file for printing on 22"x36" paper using landscape orientation.
  - 1.17.6.** Name the PDF file according to the Sedgwick County project number followed by the fiscal year, using the underscore symbol to separate the entities (e.g. R259\_2011.pdf).
    - 1.17.6.1.** File naming and bookmarking shall be per KDOT E-Plan policy for KDOT administered projects.
  - 1.17.7.** Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).

# Exhibit " A "



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Design Requirements and Scope of Services

- 1.18.** Regardless of the project administrator, each drawing associated with this project shall also be submitted to Sedgwick County in AutoCAD DWG format within the following guidelines:
  - 1.18.1.** Use the latest version available for AutoCAD DWG format.
  - 1.18.2.** All entities shall be created BYLAYER, with color and linetype BYLAYER.
  - 1.18.3.** Any referenced information external to the drawing (cells, blocks, xrefs, shapes, pen table, or non-standard fonts) shall be included.
  - 1.18.4.** Any coordinate information (point number, northing, easting, elevation and description) shall be included as Autodesk Civil 3D point objects or point blocks within the drawings, AutoDesk civil file format or as a delimited ASCII file.
  - 1.18.5.** Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).
    - 1.18.5.1.** The AutoCAD and PDF files may be stored on a single medium, but they shall be located in separate folders.

## 2.0 SCOPE OF SERVICES

The Engineering Design Consultant shall complete the following work items:

- 2.1.** Topographic survey of the project area per KDOT specifications. The survey shall be conducted by a trained and experienced land surveyor licensed by the Kansas State Board of Technical Professions according to Kansas Statutes.
  - 2.1.1.** Geo-reference the survey data to the Kansas State Plain Coordinate System, North American Datum of 1983 (NAD 83) horizontal datum, FIPS Zone 1502, ADS Zone 3951 (South Region), and North American Vertical Datum of 1988 (NAVD 88). All final values shall be in US Survey Feet.
  - 2.1.2.** Indicate the geoid model used to transform the survey data to NAVD 88.
- 2.2.** Geotechnical investigation of in-situ soils and coring of existing surfaced roads
  - 2.2.1.** A minimum of 3 borings at a depth of 5 feet will be obtained for each surfaced road mile of the project in order to evaluate soil conditions and approximate existing surface thicknesses. Bridge projects with minimal road construction may be exempt.
    - 2.2.1.1.** Pavement cores may be required in addition to the borings if a precise surface thickness is needed (e.g. when salvaging existing asphalt).
    - 2.2.1.2.** Reports will include test results for the following laboratory tests in order to classify the in-situ soils, evaluate the shrink/swell potential, and determine their pavement support characteristics:
      - 2.2.1.2.1.** Unconfined compression soil testing
      - 2.2.1.2.2.** Water content and soil density determinations
      - 2.2.1.2.3.** Atterberg limits test



## Exhibit " A"



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Design Requirements and Scope of Services

### 2.7. Prepare project plans

- 2.7.1. Plans shall include grading, paving, storm sewer, structural, guard fence, pavement marking, traffic signal, seeding, stormwater pollution prevention, and traffic control plans, as applicable to the project.
  - 2.7.1.1. For projects to be administered by Sedgwick County, Stormwater Pollution Prevention Plan (SWPPP) shall include a project specific plan sheet(s) detailing the quantity and types of devices to be used, along with their location.
- 2.7.2. Plans shall include a drainage map, prepared according to the KDOT Design Manual.
- 2.7.3. For projects to be let by Sedgwick County - Prepare interim review plans as follows:
  - 2.7.3.1. Preliminary cost estimate within 60 days of execution of contract
  - 2.7.3.2. Field Check - 54% plan completion.
    - 2.7.3.2.1. 1 set 11"x17" plans printed on bond.
    - 2.7.3.2.2. Updated cost estimate.
    - 2.7.3.2.3. PDF copy of 22"x36" plans @ 400 dpi.
  - 2.7.3.3. Utility Coordination Plans - submitted after addressing major comments from Field Check and when the effect of the project on utilities is determined.
    - 2.7.3.3.1. 1 set 22"x36" plans printed on bond to each utility within the project corridor.
    - 2.7.3.3.2. 1 set 11"x17" plans printed on bond submitted to Sedgwick County.
  - 2.7.3.4. Office Check - 94% plan completion.
    - 2.7.3.4.1. 1 set 11"x17" plans printed on bond.
    - 2.7.3.4.2. Updated cost estimate.
    - 2.7.3.4.3. Utility Status Report per §2.5.5
    - 2.7.3.4.4. PDF copy of 22"x36" plans @ 400 dpi.
  - 2.7.3.5. Final Plans – 100% plan completion.
    - 2.7.3.5.1. 3 sets 11"x17" plans printed on bond.
    - 2.7.3.5.2. PDF copy of 22"x36" plans meeting the requirements of §1.17.
    - 2.7.3.5.3. Engineer's Estimate (final).
    - 2.7.3.5.4. Updated Utility Status Report per §2.5.5
    - 2.7.3.5.5. Schedule of Prices.
- 2.7.4. For LPA projects or other projects let by KDOT, follow their schedule and plan activity requirements in addition to that required by Subsection 2.7.3.
- 2.8. Each interim plan submission is subject to review by Public Works staff. The design consultant will work with staff to address review comments in a timely manner.
- 2.9. Prepare and submit any necessary special provisions with Final Plans utilizing KDOT format.

## Exhibit " A"



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Design Requirements and Scope of Services

- 2.10. Meet with project stakeholders as required (elected officials, other agencies, property owners, etc.).
- 2.11. Work with the Contractor to resolve any concerns and answer questions.
  - 2.11.1. Review all shop drawings and other submittals, as required.
  - 2.11.2. Answer requests for information (RFI), as required.
  - 2.11.3. Assist with interpretation of plans during construction.
- 2.12. Revise project plans for change orders, as necessary. Coordinate efforts with the project contractor and Sedgwick County.
- 2.13. For projects with bridge structures:
  - 2.13.1. Provide Operating and Inventory load ratings of new structures based on KDOT 5-Trucks upon submittal of final plans.
  - 2.13.2. Conduct the initial bridge inspection, including load rating revisions, per KDOT specifications after construction of the bridge and acceptance of the project.

### 3.0 COUNTY SPECIFIC BRIDGE DESIGN DETAILS

- 3.1. Spacer frames are to be supported by bar chairs and bolsters, not on the plywood forms.
- 3.2. There shall be 1.5 inches of bottom clearance for steel in slabs.
- 3.3. The minimum section for end bearing pile applications shall be HP12 x 53. The use of HP10 x 42 sections is discouraged.

### 4.0 EXCEPTIONS TO STANDARD KDOT DESIGN

The Engineering Design Consultant shall utilize Sedgwick County special provisions and standard sheets for entrance details, pavement marking, signing details, traffic signals, and traffic control plans. Additionally, most projects will require use of modified KDOT pavement mix designs, which do not allow Recycled Asphalt Pavement (RAP) in the surface course. Coordinate the use of these details and special provisions with the KDOT Bureau of Local Projects on LPA designated projects. Most of the county standard detail sheets and general consultant information can be found at [www.sedgwickcounty.org/Public\\_Works/cad\\_standards.asp](http://www.sedgwickcounty.org/Public_Works/cad_standards.asp). The Storm Water Manual and related documents can be found at [www.wichita.gov/stormwatermanual](http://www.wichita.gov/stormwatermanual).

### 5.0 NONCOLLUSION AND DEBARMENT

Potential consultants should understand that any entity doing business with Sedgwick County will be required to certify that they have not participated in any collusion and have not been or is not currently debarred, voluntarily excluded or disqualified from bidding by any federal, state or local agency. Any questions or concerns regarding this requirement should be discussed with the Public Works Department before submitting a proposal.

# Exhibit "A"

# Bridge Inventory & Appraisal (English)

CIP B453  
SGCO BR No 787-U-2640

(8) STRUCTURE NO **00000000870120** (1) STATE **Kansas** (4) CITY **Rural** (3) COUNTY **Sedgwick**  
 (5A) ROUTE ON/UNDER **Route On Structure** HBP FUNDING ELIGIBILITY **Replacement**

IDENTIFICATION			
(5B) ROUTE TYPE			County Hwy
(5C) SERVICE TYPE			Mainline
(5D) ROUTE NUMBER	00599	(5E) SUFFIX	N/A (NBI)
(6A) FEATURE INTERSECTED			CLEARWATER CREEK
(9) LOCATION			1.0W OF LAKE AFTON
(16) LATITUDE			37 ° 36 ' 43.99 "
(17) LONGITUDE			97 ° 39 ' 35.29 "
(2) HIGHWAY AGENCY DISTRICT			District 05 - Hutchinson
(98A) BORDER BRIDGE STATE			Not Applicable (P)
(98B) BORDER BRIDGE RESPONSIBILITY			%
(99) BORDER BRIDGE STRUCTURE NO.			-
(7) (ROUTE NAME) FACILITY CARRIED			RS 599 263rd W

FUNCTIONAL DESCRIPTION			
(26) FUNCTIONAL CLASSIFICATION			Rural Mjr Collector
(104) NHS DESIGNATION			Not on NHS
(100) STRAHNET DESIGNATION			Not a STRAHNET hwy
(110) NATIONAL TRUCK NET			Not part of natl netwo
(12) BASE HIGHWAY NET			Not on Base Network
(13A) LRS INVENTORY ROUTE		(13B) LRS SUBRTE #	
(11) LRS MILE POINT			0.000 MI
(105) FEDERAL LANDS HIGHWAY			N/A (NBI)
(20) TOLL			Rdwy Agrmt
(21) MAINTAINANCE RESPONSIBILITY			County Hwy Agency
(22) OWNER			County Hwy Agency
(37) HISTORICAL SIGNIFICANCE			Possibly eligible for
(101) PARALLEL STRUCTURE			No    bridge exists
(103) TEMPORARY STRUCTURE			Unknown (NBI)

AGE AND SERVICE			
(29) AVERAGE DAILY TRAFFIC			1,047
(109) AVERAGE DAILY TRUCK TRAFFIC			7 %
(30) YEAR OF ADT			2010
(27) YEAR BUILT			1933
(106) YEAR REHABILITATED			
(102) ONE WAY OR TWO WAY TRAFFIC			2-way traffic
(42A) SERVICE ON THE BRIDGE			Highway
(42B) SERVICE UNDER THE BRIDGE			Waterway
(28A) LANES ON ROUTE			2
(28B) LANES UNDER ROUTE			0
(19) BYPASS DETOUR LENGTH			3.100 MI

LOAD RATING			
(66) INVENTORY LOAD RATING			19 ton, HS 10.00
(64) MAXIMUM LOAD RATING			25 ton, HS 13.00
(31) DESIGN LOAD			0 Other or Unknown
(65) INVENTORY LOAD RATING METHOD			LF Load Factor
(63) OPERATING (MAX) LOAD RATING METHOD			LF Load Factor
(70) POSTING REQUIREMENTS			At/Above Legal Loads
(41) POSTING STATUS			Posted for load

SCHEDULE			
(90) ROUTINE INSPECTION DATE			05/16/2011
(91) ROUTINE INSPECTION FREQUENCY			24 MO
(92) CRITICAL FEATURE INSPECTION:		(93) INSP DATE	
A) FRACTURE CRITICAL	N	MO	A)
B) UNDERWATER INSP	N	MO	B)
C) SPECIAL INSP	N	MO	C)

PROPOSED IMPROVEMENTS			
(75A) TYPE OF WORK			Not Applicable (P)
(75B) WORK BY			Unknown (NBI)
(76) IMPROVEMENT LENGTH			FT
(84) BRIDGE COST			
(95) ROADWAY COST			
(96) TOTAL COST			
(97) COST ESTIMATE YEAR			
(114) FUTURE ADT			1,290
(115) FUTURE ADT YEAR			2031

GEOMETRIC DATA			
(112) NBIS BRIDGE DEFINITION			Long Enough
(49) STRUCTURE LENGTH			81.0 FT
(48) MAXIMUM SPAN LENGTH			39.0 FT
(32) ROUTE WIDTH			37.1 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB			24.0 FT
(52) DECK WIDTH OUT TO OUT			26.6 FT
(50A) LEFT CURB OR SIDEWAY WIDTH			0.0 FT
(50B) RIGHT CURB OR SIDEWAY WIDTH			0.0 FT
(34) SKEW			0.0 °
(47) ROUTE HORIZONTAL CLEARANCE			24.0 FT
(10) MIN VERT CLEARANCE OVER ROUTE			99.99 FT
(53) MIN VERT CLEARANCE OVER BRIDGE			99.99 FT
(33) MEDIAN			No Median
(35) STRUCTURE FLARED			No flare
(54A) MIN VERT UNDERCLEARANCE REF			Feature not hwy or RR
(54B) MIN VERT UNDERCLEARANCE			0.00 FT
(55A) MIN LATERAL UNDERCLEAR REF RT			Feature not hwy or RR
(55B) MIN LATERAL UNDERCLEAR RT			0.0 FT
(56) MIN LATERAL UNDERCLEARANCE LEFT			0.0 FT

STRUCTURE AND MATERIALS			
(45) NUMBER OF MAIN SPANS			2
(43B) MAIN SPAN DESIGN TYPE			Stringer/Girder
(43A) MAIN SPAN MATERIAL TYPE			Steel Continuous
(107) DECK TYPE			Concrete-Cast-in-Place
(108A) DECK SURFACE			Bituminous
(108B) MEMBRANE			None
(108C) DECK PROTECTION			None
(46) NUMBER OF APPROACH SPANS			0
(44B) APPROACH SPAN DESIGN TYPE			-1
(44A) APPROACH SPAN MATERIAL TYPE			Unknown (NBI)

CONDITION			
(58) DECK CONDITION RATING			5
(59) SUPERSTRUCTURE CONDITION			5
(60) SUBSTRUCTURE CONDITION			4
(62) CULVERT CONDITION			N
(61) STREAM STABILITY / CHANNEL			6

APPRAISAL			
DEFICIENCY STATUS			Structurally Deficient
(72) BRIDGE ROUTE ALIGNMENT			8
(71) WATERWAY ADEQUACY			6
(113) SCOUR VULNERABILITY			6
(67) STRUCTURAL EVALUATION			4
(68) DECK WIDTH APPRAISAL			4
(69) HORIZ. UNDERCLEARANCE APPRAISAL			N
SUFFICIENCY RATING			34.50
(36A) BRIDGE RAILS			1
(36B) RAIL TRANSITIONS			0
(38C) APPROACH GUARDRAILS			0
(36D) APPROACH GUARDRAIL ENDS			0

NAVIGATION DATA			
(38) NAVIGABLE WATERWAY			Permit Not Required
(39) NAVIGATION VERTICAL CLEARANCE			FT
(40) NAVIGATION HORIZONTAL CLEARANCE			FT
(111) SUBSTRUCTURE NAV PROTECTION			Unknown (NBI)
(116) MIN NAV VERT CLEAR VERT LIFT BRIDGE			FT



## Exhibit " A "

# **SEDGWICK COUNTY PUBLIC WORKS DESIGN REQUIREMENTS AND SCOPE OF SERVICES**

The Engineering Design Consultant shall furnish the services required for the development of plans, specifications, and estimates of the quantities of work for the designated project in the format and detail required according to this document. This project is expected to be locally administered by Sedgwick County.

**Project Description:** CIP Project No. B456 - Replacement of Bridge No. 807-Y-3005, a 52 ft. continuous steel 2-span bridge with a 26 ft. roadway located on 103<sup>rd</sup> St W (Maize Rd.) between 71<sup>st</sup> and 79<sup>th</sup> St S in south Sedgwick County, KS.

NBI No.: 000870807006364

Sufficiency Rating: 46.5 – Structurally Deficient

2010 Traffic Count: 450

Posted: 15/23/36 Tons

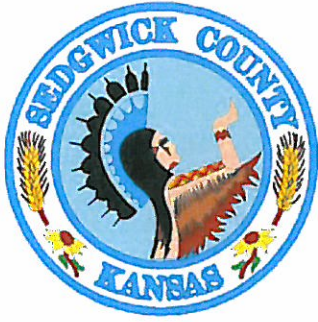
Drainage Area: 8 sq. miles (note: in backwater of private lake)

**Due Date:** Final plans and specifications are anticipated to be due in the third quarter of 2013. An exact submittal date will be determined after consultant selection during the negotiation period.

## **1.0 DESIGN STANDARDS**

- 1.1. U.S. Customary units shall be employed on all projects.
- 1.2. Design standards shall follow the Kansas Department of Transportation (KDOT) Project Development Manual for Non-National Highway System Local Government Road and Street Projects (latest edition).
- 1.3. Plan style and format shall essentially follow that described in the KDOT Design Manuals.
- 1.4. Design bridges according to the American Association of State Highway and Transportation Officials (AASHTO) standards (minimum HS-20 loading).
  - 1.4.1. See Section 3.0 for exceptions.
- 1.5. All construction work and material shall comply with the KDOT Standard Specifications for State Road and Bridge Construction (2007), as well as any KDOT and Sedgwick County special provisions.
- 1.6. All stormwater runoff shall be calculated and managed in accordance with the City of Wichita/Sedgwick County Storm Water Manual (latest version).
- 1.7. Minimum bridge approach grading shall be used to transition roadway width and profiles for bridge specific projects.
- 1.8. Bridge channel work shall be minimized when possible.
- 1.9. Alignment stationing shall be south to north and west to east.
  - 1.9.1. Avoid beginning with Sta. 0+00.
  - 1.9.2. Avoid using the same stationing for multiple alignments, including side roads.

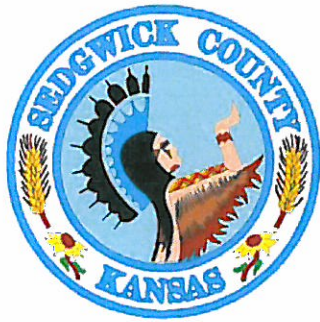
## Exhibit " A"



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Design Requirements and Scope of Services

- 1.10.** North shall be oriented to the top or right side of the sheet.
- 1.11.** The project survey control data should be shown on the first plan-profile sheet. The horizontal and vertical datums shall be per § 2.1.1.
- 1.12.** Cross sections are required on all projects; maximum spacing is 100 ft. and shall be provided at all storm sewer crossings, crossroad pipes, guardrail end points, edge of wearing surfaces of bridges, and any other critical locations deemed necessary by Sedgwick County.
- 1.13.** Traffic control plans shall attempt to balance project cost with road closure time.
  - 1.13.1.** Traffic control measures shall meet the guidelines presented in the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD).
  - 1.13.2.** Traffic is to be closed during construction at any bridge replacement location.
  - 1.13.3.** Local traffic will be carried at all times on either side of the bridge, if applicable, but through traffic may be eliminated in phases if approved by Sedgwick County.
- 1.14.** All hydraulic structures shall be designed to pass 100-year discharges as required by the City of Wichita/Sedgwick County Storm Water Manual.
  - 1.14.1.** Lower discharges may be allowed if justified.
- 1.15.** Use KDOT and Sedgwick County standard detail sheets for plan preparation.
  - 1.15.1.** Consult KDOT Bureau of Local Projects for the use of county standard details when developing plans for Local Public Authority (LPA) administered projects.
- 1.16.** Interim check plans shall be submitted according to § 2.7.3.
- 1.17.** Final plans shall be submitted for production in electronic Portable Document Format (PDF). Use of the PDF/A file format for long-term archival is required, and shall adhere to the following composition:
  - 1.17.1.** Resolution shall be exactly 400 dpi (dots per inch).
  - 1.17.2.** Create PDF files in black and white, using grayscale when shading is necessary for clarity of intent. Do not submit full-color PDF files.
  - 1.17.3.** Use JPEG compression for raster images.
  - 1.17.4.** Submit all plan sheets, including cross sections, as a single multi-page PDF file.
  - 1.17.5.** Create each page in the PDF file for printing on 22"x36" paper using landscape orientation.
  - 1.17.6.** Name the PDF file according to the Sedgwick County project number followed by the fiscal year, using the underscore symbol to separate the entities (e.g. R259\_2011.pdf).
    - 1.17.6.1.** File naming and bookmarking shall be per KDOT E-Plan policy for KDOT administered projects.
  - 1.17.7.** Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).

# Exhibit " A"



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Design Requirements and Scope of Services

- 1.18.** Regardless of the project administrator, each drawing associated with this project shall also be submitted to Sedgwick County in AutoCAD DWG format within the following guidelines:
  - 1.18.1.** Use the latest version available for AutoCAD DWG format.
  - 1.18.2.** All entities shall be created BYLAYER, with color and linetype BYLAYER.
  - 1.18.3.** Any referenced information external to the drawing (cells, blocks, xrefs, shapes, pen table, or non-standard fonts) shall be included.
  - 1.18.4.** Any coordinate information (point number, northing, easting, elevation and description) shall be included as Autodesk Civil 3D point objects or point blocks within the drawings, AutoDesk civil file format or as a delimited ASCII file.
  - 1.18.5.** Submit on CD-ROM or DVD medium. Medium must be labeled with the Sedgwick County project number, project year and consultant name. Include the number of CD-ROMs and total submitted (e.g. 1 of 4, 2 of 4, etc.).
    - 1.18.5.1.** The AutoCAD and PDF files may be stored on a single medium, but they shall be located in separate folders.

## 2.0 SCOPE OF SERVICES

The Engineering Design Consultant shall complete the following work items:

- 2.1.** Topographic survey of the project area per KDOT specifications. The survey shall be conducted by a trained and experienced land surveyor licensed by the Kansas State Board of Technical Professions according to Kansas Statutes.
  - 2.1.1.** Geo-reference the survey data to the Kansas State Plain Coordinate System, North American Datum of 1983 (NAD 83) horizontal datum, FIPS Zone 1502, ADS Zone 3951 (South Region), and North American Vertical Datum of 1988 (NAVD 88). All final values shall be in US Survey Feet.
  - 2.1.2.** Indicate the geoid model used to transform the survey data to NAVD 88.
- 2.2.** Geotechnical investigation of in-situ soils and coring of existing surfaced roads
  - 2.2.1.** A minimum of 3 borings at a depth of 5 feet will be obtained for each surfaced road mile of the project in order to evaluate soil conditions and approximate existing surface thicknesses. Bridge projects with minimal road construction may be exempt.
    - 2.2.1.1.** Pavement cores may be required in addition to the borings if a precise surface thickness is needed (e.g. when salvaging existing asphalt).
    - 2.2.1.2.** Reports will include test results for the following laboratory tests in order to classify the in-situ soils, evaluate the shrink/swell potential, and determine their pavement support characteristics:
      - 2.2.1.2.1.** Unconfined compression soil testing
      - 2.2.1.2.2.** Water content and soil density determinations
      - 2.2.1.2.3.** Atterberg limits test



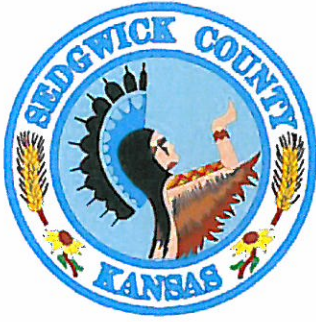
## Exhibit " A"



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Design Requirements and Scope of Services

### 2.7. Prepare project plans

- 2.7.1. Plans shall include grading, paving, storm sewer, structural, guard fence, pavement marking, traffic signal, seeding, stormwater pollution prevention, and traffic control plans, as applicable to the project.
  - 2.7.1.1. For projects to be administered by Sedgwick County, Stormwater Pollution Prevention Plan (SWPPP) shall include a project specific plan sheet(s) detailing the quantity and types of devices to be used, along with their location.
- 2.7.2. Plans shall include a drainage map, prepared according to the KDOT Design Manual.
- 2.7.3. For projects to be let by Sedgwick County - Prepare interim review plans as follows:
  - 2.7.3.1. Preliminary cost estimate within 60 days of execution of contract
  - 2.7.3.2. Field Check - 54% plan completion.
    - 2.7.3.2.1. 1 set 11"x17" plans printed on bond.
    - 2.7.3.2.2. Updated cost estimate.
    - 2.7.3.2.3. PDF copy of 22"x36" plans @ 400 dpi.
  - 2.7.3.3. Utility Coordination Plans - submitted after addressing major comments from Field Check and when the effect of the project on utilities is determined.
    - 2.7.3.3.1. 1 set 22"x36" plans printed on bond to each utility within the project corridor.
    - 2.7.3.3.2. 1 set 11"x17" plans printed on bond submitted to Sedgwick County.
  - 2.7.3.4. Office Check - 94% plan completion.
    - 2.7.3.4.1. 1 set 11"x17" plans printed on bond.
    - 2.7.3.4.2. Updated cost estimate.
    - 2.7.3.4.3. Utility Status Report per §2.5.5
    - 2.7.3.4.4. PDF copy of 22"x36" plans @ 400 dpi.
  - 2.7.3.5. Final Plans – 100% plan completion.
    - 2.7.3.5.1. 3 sets 11"x17" plans printed on bond.
    - 2.7.3.5.2. PDF copy of 22"x36" plans meeting the requirements of §1.17.
    - 2.7.3.5.3. Engineer's Estimate (final).
    - 2.7.3.5.4. Updated Utility Status Report per §2.5.5
    - 2.7.3.5.5. Schedule of Prices.
- 2.7.4. For LPA projects or other projects let by KDOT, follow their schedule and plan activity requirements in addition to that required by Subsection 2.7.3.
- 2.8. Each interim plan submission is subject to review by Public Works staff. The design consultant will work with staff to address review comments in a timely manner.
- 2.9. Prepare and submit any necessary special provisions with Final Plans utilizing KDOT format.



- 2.10. Meet with project stakeholders as required (elected officials, other agencies, property owners, etc.).
- 2.11. Work with the Contractor to resolve any concerns and answer questions.
  - 2.11.1. Review all shop drawings and other submittals, as required.
  - 2.11.2. Answer requests for information (RFI), as required.
  - 2.11.3. Assist with interpretation of plans during construction.
- 2.12. Revise project plans for change orders, as necessary. Coordinate efforts with the project contractor and Sedgwick County.
- 2.13. For projects with bridge structures:
  - 2.13.1. Provide Operating and Inventory load ratings of new structures based on KDOT 5-Trucks upon submittal of final plans.
  - 2.13.2. Conduct the initial bridge inspection, including load rating revisions, per KDOT specifications after construction of the bridge and acceptance of the project.

### 3.0 COUNTY SPECIFIC BRIDGE DESIGN DETAILS

- 3.1. Spacer frames are to be supported by bar chairs and bolsters, not on the plywood forms.
- 3.2. There shall be 1.5 inches of bottom clearance for steel in slabs.
- 3.3. The minimum section for end bearing pile applications shall be HP12 x 53. The use of HP10 x 42 sections is discouraged.

### 4.0 EXCEPTIONS TO STANDARD KDOT DESIGN

The Engineering Design Consultant shall utilize Sedgwick County special provisions and standard sheets for entrance details, pavement marking, signing details, traffic signals, and traffic control plans. Additionally, most projects will require use of modified KDOT pavement mix designs, which do not allow Recycled Asphalt Pavement (RAP) in the surface course. Coordinate the use of these details and special provisions with the KDOT Bureau of Local Projects on LPA designated projects. Most of the county standard detail sheets and general consultant information can be found at [www.sedgwickcounty.org/Public\\_Works/cad\\_standards.asp](http://www.sedgwickcounty.org/Public_Works/cad_standards.asp). The Storm Water Manual and related documents can be found at [www.wichita.gov/stormwatermanual](http://www.wichita.gov/stormwatermanual).

### 5.0 NONCOLLUSION AND DEBARMENT

Potential consultants should understand that any entity doing business with Sedgwick County will be required to certify that they have not participated in any collusion and have not been or is not currently debarred, voluntarily excluded or disqualified from bidding by any federal, state or local agency. Any questions or concerns regarding this requirement should be discussed with the Public Works Department before submitting a proposal.

Exhibit "A"

Bridge Inventory & Appraisal (English)

CIP B456  
SGCO BR No 807-Y-3005

(8) STRUCTURE NO 000870807006364 (1) STATE Kansas (4) CITY Rural (3) COUNTY Sedgwick  
(5A) ROUTE ON/UNDER Route On Structure HBP FUNDING ELIGIBILITY Replacement

IDENTIFICATION	
(5B) ROUTE TYPE	County Hwy
(5C) SERVICE TYPE	Mainline
(5D) ROUTE NUMBER 00000	(5E) SUFFIX N/A (NBI)
(6A) FEATURE INTERSECTED	SPRING CREEK
(9) LOCATION	2.0E 3.6N OF CLEARWATER
(16) LATITUDE	37 ° 33 ' 24.88 "
(17) LONGITUDE	97 ° 28 ' 41.56 "
(2) HIGHWAY AGENCY DISTRICT	District 05 - Hutchinson
(98A) BORDER BRIDGE STATE	Not Applicable (P)
(98B) BORDER BRIDGE RESPONSIBILITY	%
(99) BORDER BRIDGE STRUCTURE NO.	-
(7) (ROUTE NAME) FACILITY CARRIED	Maize

FUNCTIONAL DESCRIPTION	
(26) FUNCTIONAL CLASSIFICATION	Rural Local
(104) NHS DESIGNATION	Not on NHS
(100) STRAHNET DESIGNATION	Not a STRAHNET hwy
(110) NATIONAL TRUCK NET	Not part of natl netwo
(12) BASE HIGHWAY NET	Not on Base Network
(13A) LRS INVENTORY ROUTE	(13B) LRS SUBRTE #
(11) LRS MILE POINT	0.000 MI
(105) FEDERAL LANDS HIGHWAY	N/A (NBI)
(20) TOLL	Rdwy Agrmt
(21) MAINTAINENANCE RESPONSIBILITY	County Hwy Agency
(22) OWNER	County Hwy Agency
(37) HISTORICAL SIGNIFICANCE	Possibly eligible for
(101) PARALLEL STRUCTURE	No    bridge exists
(103) TEMPORARY STRUCTURE	Unknown (NBI)

AGE AND SERVICE	
(29) AVERAGE DAILY TRAFFIC	50
(109) AVERAGE DAILY TRUCK TRAFFIC	-1 %
(30) YEAR OF ADT	2008
(27) YEAR BUILT	1900
(106) YEAR REHABILITATED	
(102) ONE WAY OR TWO WAY TRAFFIC	2-way traffic
(42A) SERVICE ON THE BRIDGE	Highway
(42B) SERVICE UNDER THE BRIDGE	Waterway
(28A) LANES ON ROUTE	2
(28B) LANES UNDER ROUTE	0
(19) BYPASS DETOUR LENGTH	3.100 MI

LOAD RATING	
(66) INVENTORY LOAD RATING	19 ton, HS 10.00
(64) MAXIMUM LOAD RATING	25 ton, HS 13.00
(31) DESIGN LOAD	0 Other or Unknown
(65) INVENTORY LOAD RATING METHOD	LF Load Factor
(63) OPERATING (MAX) LOAD RATING METHOD	LF Load Factor
(70) POSTING REQUIREMENTS	At/Above Legal Loads
(41) POSTING STATUS	Posted for load

SCHEDULE			
(90) ROUTINE INSPECTION DATE			05/16/2011
(91) ROUTINE INSPECTION FREQUENCY			24 MO
(92) CRITICAL FEATURE INSPECTION:		(93) INSP DATE	
A) FRACTURE CRITICAL	N	MO	A)
B) UNDERWATER INSP	N	MO	B)
C) SPECIAL INSP	N	MO	C)

PROPOSED IMPROVEMENTS	
(75A) TYPE OF WORK	Not Applicable (P)
(75B) WORK BY	Unknown (NBI)
(76) IMPROVEMENT LENGTH	FT
(94) BRIDGE COST	
(95) ROADWAY COST	
(96) TOTAL COST	
(97) COST ESTIMATE YEAR	
(114) FUTURE ADT	480
(115) FUTURE ADT YEAR	2031

GEOMETRIC DATA	
(112) NBIS BRIDGE DEFINITION	Long Enough
(49) STRUCTURE LENGTH	51.8 FT
(48) MAXIMUM SPAN LENGTH	24.0 FT
(32) ROUTE WIDTH	29.9 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	26.3 FT
(52) DECK WIDTH OUT TO OUT	30.8 FT
(50A) LEFT CURB OR SIDEWAY WIDTH	0.0 FT
(50B) RIGHT CURB OR SIDEWAY WIDTH	0.0 FT
(34) SKEW	30.0 °
(47) ROUTE HORIZONTAL CLEARANCE	26.3 FT
(10) MIN VERT CLEARANCE OVER ROUTE	99.99 FT
(53) MIN VERT CLEARANCE OVER BRIDGE	99.99 FT
(33) MEDIAN	No Median
(35) STRUCTURE FLARED	No flare
(54A) MIN VERT UNDERCLEARANCE REF	Feature not hwy or RR
(54B) MIN VERT UNDERCLEARANCE	0.00 FT
(55A) MIN LATERAL UNDERCLEAR REF RT	Feature not hwy or RR
(55B) MIN LATERAL UNDERCLEAR RT	0.0 FT
(56) MIN LATERAL UNDERCLEARANCE LEFT	0.0 FT

STRUCTURE AND MATERIALS	
(45) NUMBER OF MAIN SPANS	2
(43B) MAIN SPAN DESIGN TYPE	Stringer/Girder
(43A) MAIN SPAN MATERIAL TYPE	Steel Continuous
(107) DECK TYPE	Concrete-Cast-in-Place
(108A) DECK SURFACE	Gravel
(108B) MEMBRANE	None
(108C) DECK PROTECTION	None
(46) NUMBER OF APPROACH SPANS	0
(44B) APPROACH SPAN DESIGN TYPE	-1
(44A) APPROACH SPAN MATERIAL TYPE	Unknown (NBI)

CONDITION	
(58) DECK CONDITION RATING	6
(59) SUPERSTRUCTURE CONDITION	5
(60) SUBSTRUCTURE CONDITION	4
(62) CULVERT CONDITION	N
(61) STREAM STABILITY / CHANNEL	5

APPRAISAL	
DEFICIENCY STATUS	Structurally Deficient
(72) BRIDGE ROUTE ALIGNMENT	5
(71) WATERWAY ADEQUACY	5
(113) SCOUR VULNERABILITY	5
(67) STRUCTURAL EVALUATION	4
(68) DECK WIDTH APPRAISAL	6
(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
SUFFICIENCY RATING	46.50
(36A) BRIDGE RAILS	1
(36B) RAIL TRANSITIONS	0
(36C) APPROACH GUARDRAILS	0
(36D) APPROACH GUARDRAIL ENDS	0

NAVIGATION DATA	
(38) NAVIGABLE WATERWAY	Permit Not Required
(39) NAVIGATION VERTICAL CLEARANCE	FT
(40) NAVIGATION HORIZONTAL CLEARANCE	FT
(111) SUBSTRUCTURE NAV PROTECTION	Unknown (NBI)
(116) MIN NAV VERT CLEAR VERT LIFT BRIDGE	FT

## CONTRACTOR CERTIFICATION FORM

Complete this form as applicable. The signature on the contract with the County supplies the necessary signature for this Certification.

### *NONCOLLUSION*

I certify the party entering into this contract with Sedgwick County has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any unlawful action, in restraint of free competitive bidding in connection with this contract.

### *HISTORY OF DEBARMENT*

I certify that, except as noted below, the party entering into this contract and any person associated with that party in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, or any other position involving the administration of federal, state or local funds:

1. Is not currently suspended, debarred, voluntarily excluded or disqualified from bidding by any federal, state or local agency;
2. Has not been suspended, debarred, voluntarily excluded or disqualified from bidding by any federal, state or local agency within the past three years;
3. Does not have any proposed debarment or suspension pending;
4. Within the past three years, has not been convicted or had a civil judgment rendered against the party or person associated with the party by a court of competent jurisdiction in any matter involving fraud, anti-trust violations, theft, official misconduct, or other offenses indicating a lack of business integrity or business honesty;
5. Is not currently indicted or otherwise criminally or civilly charged by a federal, state or local government with fraud, anti-trust violations, theft, official misconduct, or other offenses indicating a lack of business integrity or business honesty; and
6. Has not had one or more federal, state, or local government contracts terminated for cause or default within the past three years.

  X   [Check] Answer to Questions 1-6 are all "No"

       [Check] Answer to one or more Questions 1-6 is "Yes" and explain below (attach additional pages or documents if necessary)

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