

February 24, 2014

Mr. Richard LaMunyon
City Administrator
City of Maize
10100 W Grady Avenue
P.O. Box 245
Maize, Kansas 67101

Subject: City of Maize Bridge Inspections; PEC Project No. 32-14065-0022

Dear Mr. LaMunyon,

We have completed our inspections of the 4 bridges in the City of Maize. There are two structures that warrant load postings. See the attached summary of posting requirements map for clarification. In addition, the structure at 61st St. over the Big Slough Tributary continues to be functionally obsolete, as it has been the last few inspection cycles. The following is a brief summary of the important findings.

Structure No.	Facility Carried	Feature Intersected	Location	Posting	Posting Signs	Functionally Obsolete / Structurally Deficient	
001	517650870000001	Local Access	Big Slough Tributary	300' NE of K-96 & 45th St.	Not Posted	-	-
002	000870809006069	Tyler Rd.	Big Slough	400' N of 45th St.	Not Posted	Remove	-
003	000870807606040	61st St.	Big Slough Tributary	0.33 Mi. W of Tyler Rd.	Posted	15-23-36	FO
004	000870809006041	Tyler Rd.	Little Slough	600' S of 61st St.	Posted	14-20-23	-

Enclosed is a bridge inspection submittal sheet for the City of Maize 2014 biennial bridge inspections. Attached with this submittal sheet is a bridge location map, master list, maintenance list, other lists as required by the KDOT Local Routine Bridge Inspection Contract Scope of Services, KDOT's web portal data validation, sufficiency forms, and updated load ratings for the structures. Also included are the bridge inventory & assessments, the new inspection forms, the field inspection forms, and inspection photographs for each structure. Please combine these files with your previous inspection files which must be kept for KDOT BLP field reviews and used as a reference for future re-inspections.

If you have any questions or need additional information, please call.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

C. William Pyles Jr., P.E.
Bridge Design Engineer

CWPJ

Encl: As noted

Routine Bridge Inspection Submittal

County/City Maize

This form shall be completed and attached to the SI&A Forms and any updates (removals, additions, and/or transfers) when submitted to the Bureau of Local Projects for updating of bridge inspection records.

Inspections Team Leader C. William Pyles Jr. Date Feb 19, 2014

Load Ratings Performed by N/A Date N/A

Office Review Performed by C. William Pyles Jr. Date Feb 20, 2014

Scour POA's Reviewed by C. William Pyles Jr. Date Feb 24, 2014

Data Validation Performed by C. William Pyles Jr. * Date Feb 20, 2014

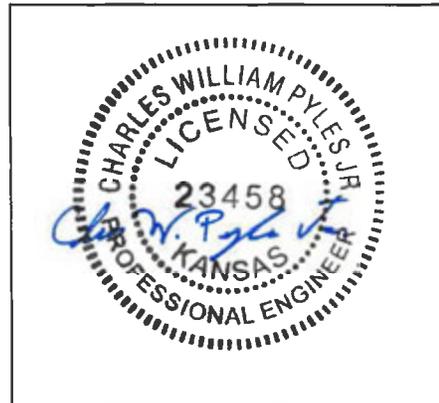
Sufficiency Rating Calculated by C. William Pyles Jr. * Date Feb 20, 2014

*Please attach web portal generated Data Validation/Sufficiency Rating forms along with scanned Scour Plan of Action Section 2(s) for all applicable bridges with this submittal.

The licensed professional Engineer in charge of the inspection group should sign and seal below.

Charles W. Pyles Jr.

(Signature)



(Seal)

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
MASTER LIST**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Structure Type	Structure Length	Insp. M/YR	Inspected By	Insp. Freq.	Posting	Missing Weight Limit Signing?	SD/FO Status	Sufficiency Number	Deck	Super	Sub	Culvert	Channel	Route Alignment	Waterway	Scour Vulnerability	Structural Evaluation	Deck Width Appraisal	Load Rating Update Rqd	Scour Analysis / Assessment Rqd
	8	7	6A	9	43	49	90		91	41				58	59	60	62	61	72	71	113	67	68		
001	517650870000001	Local Access	Big Slough Tributary	300' NE of K-96 & 45th St.	119	23.1	2/14	CWPJ	24	Not Posted	-	-	96.50	N	N	N	8	7	8	8	8	7	9	N	N
002	000870809006069	Tyler Rd.	Big Slough	400' N of 45th St.	201	118.1	2/14	CWPJ	24	Posting Not Required	Remove Signs	-	90.00	6	8	8	N	8	8	8	5	8	4	N	N
003	000870807606040	61st St.	Big Slough Tributary	0.33 Mi. W of Tyler Rd.	119	27.9	2/14	CWPJ	24	15-23-36	All Present	FO	57.40	N	N	N	6	6	7	6	8	5	3	Y	N
004	000870809006041	Tyler Rd.	Little Slough	600' S of 61st St.	319	25.9	2/14	CWPJ	24	Posting Required	14-20-23	-	71.30	N	N	N	7	7	7	7	8	4	5	Y	N

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
MAINTENANCE LIST**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Recommended Maintenance
001	517650870000001	Local Access	Big Slough Tributary	300' NE of K-96 & 45th St.	Trees in the channel need to be removed
002	000870809006069	Tyler Rd.	Big Slough	400' N of 45th St.	Remove load posting signs. Structure does not require posting. Monitor asphalt deck patches.
003	000870807606040	61st St.	Big Slough Tributary	0.33 Mi. W of Tyler Rd.	Remove silt and trash blocking cells
004	000870809006041	Tyler Rd.	Little Slough	600' S of 61st St.	Install load posting signs, 14-20-23. Use signs from structure 002. Remove debris from cells

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
CRITICAL INSPECTION FINDINGS**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Description of Critical Inspection Finding
N/A	N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
SCOUR PLANS OF ACTION**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	
N/A	N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
STRUCTURES REQUIRING ANNUAL INSPECTION**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Inspection Due Date	Reason for Annual Inspection	Item(s) to be Inspected
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
FRACTURE CRITICAL STRUCTURES**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Structure Type	Special Equipment Required	Items of Concern
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
STRUCTURES WITH PINS & HANGERS**

City No.	Structure No.	Facility Carried	Feature Intersected	Location
N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
UNDERWATER INSPECTION STRUCTURES**

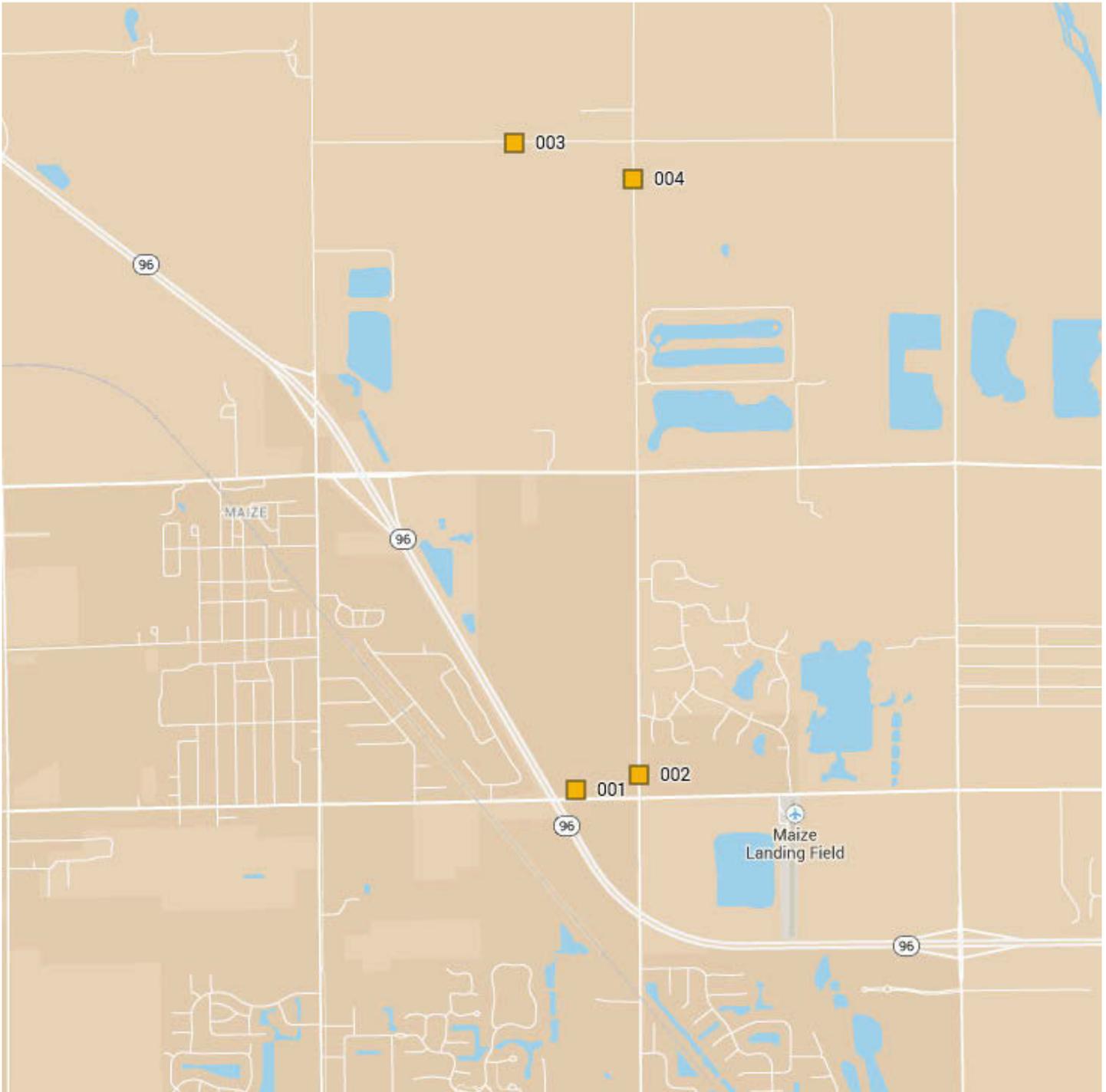
City No.	Structure No.	Facility Carried	Feature Intersected	Location	Type (I, II, III, IV)
N/A	N/A	N/A	N/A	N/A	N/A

**CITY OF MAIZE 2014 BIENNIAL INSPECTION
STRUCTURES WITH INACCESSABLE SUBSTRUCTURE UNITS**

City No.	Structure No.	Facility Carried	Feature Intersected	Location	Inaccessible Unit
N/A	N/A	N/A	N/A	N/A	N/A

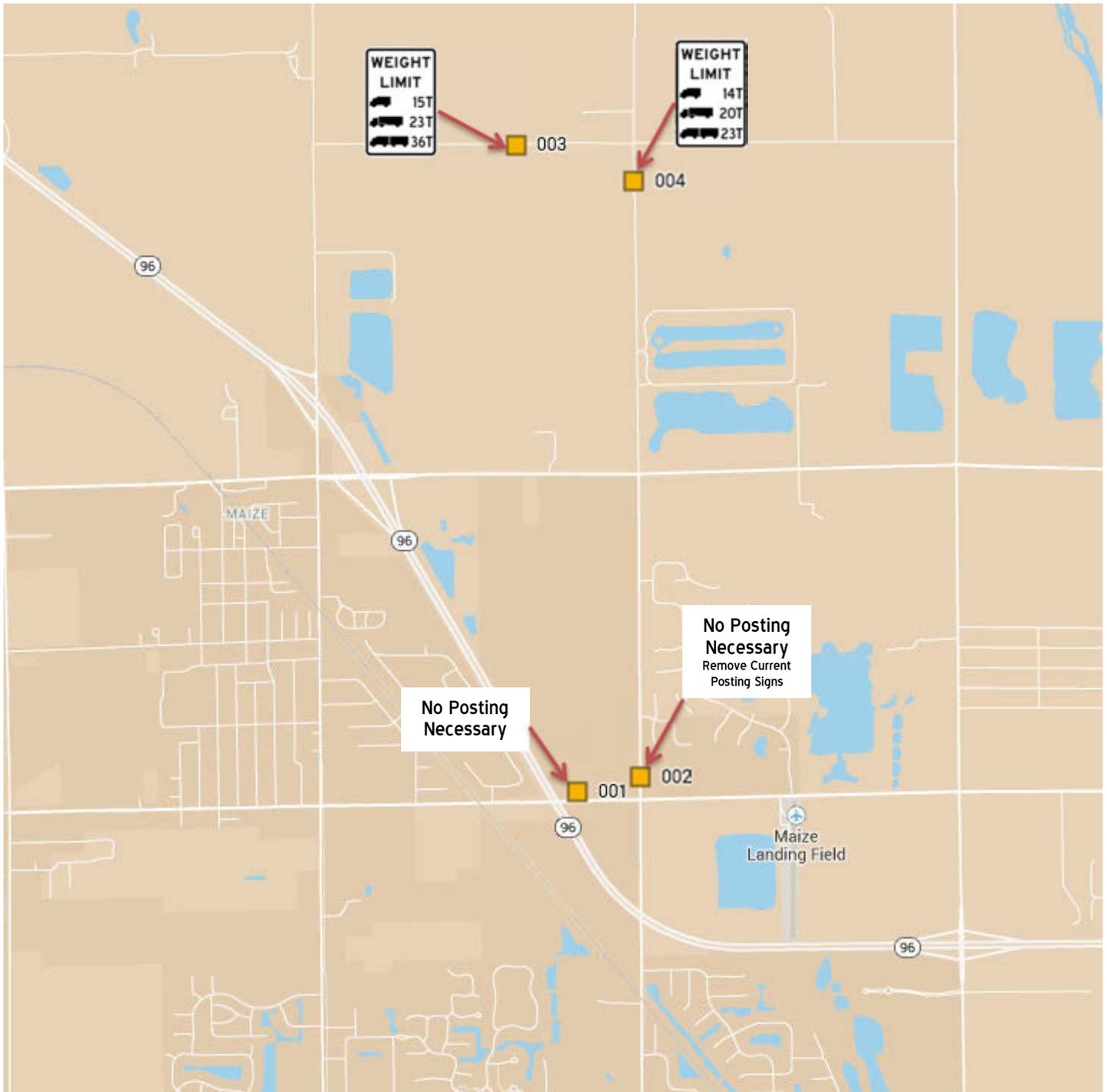
Biennial Bridge Inspection Map

City of Maize



Summary of Posting Requirements

City of Maize



Sufficiency Rating Results

[Print](#)

Structure ID	Inspection Date		Struct Rating	Deck Geom	Under Clrnc	SR Prefix	SR Rating	SD/FO Status	HRRB Status
000870807606040	02/19/2014	Previous Ratings:	5	3	N		57.4	FO	Rehabilitation
		Calculated Ratings:	5	3	N		57.4	FO	Rehabilitation
000870809006041	02/19/2014	Previous Ratings:	4	5	N		71.3		Not Eligible
		Calculated Ratings:	4	5	N		71.3		Not Eligible
000870809006069	02/19/2014	Previous Ratings:	8	4	N		90.0		Not Eligible
		Calculated Ratings:	8	4	N		90.0		Not Eligible
517650870000001	02/19/2014	Previous Ratings:	7	9	N		96.5		Not Eligible
		Calculated Ratings:	7	9	N		96.5		Not Eligible

Structures requested: 4

Structures in the ratings list: 4

LOCAL BRIDGE INSPECTION SYSTEM

BRIDGE DATA VALIDATION EXCEPTIONS

Maize PCG

Bridge ID	On/Under	Check #	Severity	Exception ID	Exception Description
000870807606040			OK		Bridge generated no validation errors.
000870809006041			OK		Bridge generated no validation errors.
000870809006069			OK		Bridge generated no validation errors.
517650870000001			OK		Bridge generated no validation errors.

4 bridges generated 0 exceptions

All Bridge Groups

4 bridges generated 0 exceptions

Printed 2/20/2014

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO **517650870000001** (1) STATE **Kansas** (4) CITY **Maize** (3) COUNTY **Sedgwick**
 LPA Bridge ID **001** (5A) ROUTE ON/UNDER **Route On Structure** HBP FUNDING ELIGIBILITY **Not Eligible**

IDENTIFICATION	
(5B) ROUTE TYPE	City Street
(5C) SERVICE TYPE	Service Road
(5D) ROUTE NUMBER	00000
(5E) SUFFIX	N/A (NBI)
(6A) FEATURE INTERSECTED	Big Slough Trib.
(9) LOCATION	300' NE of K-96 & 45th
(16) LATITUDE	37 ° 46 ' 00.00 "
(17) LONGITUDE	97 ° 26 ' 54.00 "
(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	Local Access

GEOMETRIC DATA	
(112) NBIS BRIDGE DEFINITION	Long Enough
(49) STRUCTURE LENGTH	23.1 FT
(48) MAXIMUM SPAN LENGTH	7.0 FT
(32) ROUTE WIDTH	39.0 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	39.5 FT
(52) DECK WIDTH OUT TO OUT	41.0 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	40.0 FT
(10) MIN VERT CLEARANCE OVER ROUTE	9,999.00 FT
(53) MIN VERT CLEARANCE OVER BRIDGE	9,999.00 FT
(33) MEDIAN	No Median
(35) STRUCTURE FLARED	No flare
(54A) MIN VERT UNDERCLEARANCE REF	Feature not hwy or RR
(54B) MIN VERT UNDERCLEARANCE	99.00 FT
(55A) MIN LATERAL UNDERCLEAR REF RT	Feature not hwy or RR
(55B) MIN LATERAL UNDERCLEAR RT	99.0 FT
(56) MIN LATERAL UNDERCLEARANCE LEFT	99.0 FT

FUNCTIONAL DESCRIPTION	
(26) FUNCTIONAL CLASSIFICATION	Urban 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	City/Municipal Hwy Agenc
(22) OWNER	City/Municipal Hwy Agenc
(37) HISTORICAL SIGNIFICANCE	Not eligible for NRHP
(101) PARALLEL STRUCTURE	No bridge exists
(103) TEMPORARY STRUCTURE	Unknown (NBI)

STRUCTURE AND MATERIALS	
(45) NUMBER OF MAIN SPANS	3
(43B) MAIN SPAN DESIGN TYPE	Culvert
(43A) MAIN SPAN MATERIAL TYPE	Concrete
(107) DECK TYPE	N N/A (NBI)
(108A) DECK SURFACE	N N/A (no deck (NBI))
(108B) MEMBRANE	N/A (no deck (NBI))
(108C) DECK PROTECTION	N N/A (no deck (NBI))
(46) NUMBER OF APPROACH SPANS	0
(44B) APPROACH SPAN DESIGN TYPE	-2
(44A) APPROACH SPAN MATERIAL TYPE	Not Applicable (P)

AGE AND SERVICE	
(29) AVERAGE DAILY TRAFFIC	2
(109) AVERAGE DAILY TRUCK TRAFFIC	0 %
(30) YEAR OF ADT	2010
(27) YEAR BUILT	2004
(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	3.000 MI

CONDITION	
(58) DECK CONDITION RATING	N
(59) SUPERSTRUCTURE CONDITION	N
(60) SUBSTRUCTURE CONDITION	N
(62) CULVERT CONDITION	8
(61) STREAM STABILITY / CHANNEL	7

LOAD RATING	
(66) INVENTORY LOAD RATING	34 ton, HS 18.00
(64) MAXIMUM LOAD RATING	57 ton, HS 31.00
(31) DESIGN LOAD	5 MS 18 (HS 20)
(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	Open, no restriction

APPRAISAL	
DEFICIENCY STATUS	Not Deficient
(72) BRIDGE ROUTE ALIGNMENT	8
(71) WATERWAY ADEQUACY	8
(113) SCOUR VULNERABILITY	8
(67) STRUCTURAL EVALUATION	7
(68) DECK WIDTH APPRAISAL	9
(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
SUFFICIENCY RATING	96.50
(36A) BRIDGE RAILS	0
(36B) RAIL TRANSITIONS	0
(36C) APPROACH GUARDRAILS	0
(36D) APPROACH GUARDRAIL ENDS	0

SCHEDULE			
(90) ROUTINE INSPECTION DATE			02/19/2014
(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)

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

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	200
(115) FUTURE ADT YEAR	2030

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO	517650870000001	(1) STATE	Kansas	(4) CITY	Maize	(3) COUNTY	Sedgwick
LPA Bridge ID	001	(5A) ROUTE ON/UNDER	Route On Structure	HBP FUNDING ELIGIBILITY		Not Eligible	

NOTES

STRUCTURE -
NOTES Bridge 517650870000001 entered 3/11/2010 09:32:14 by userid kdot_blp

INSPECTION Channel - Minor brush, lots of small trees up and downstream that need removed.
NOTES

ROADWAY -
NOTES

Bridge No.

51765087000001

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Roadway looking East



Roadway looking West



Elevation looking upstream



Elevation looking downstream

Bridge No.

51765087000001

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Looking upstream



Looking downstream



Trees and other vegetation to be cleared upstream



Trees and other vegetation to be cleared downstream

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO **000870809006069** (1) STATE **Kansas** (4) CITY **Maize** (3) COUNTY **Sedgwick**
 LPA Bridge ID **002** (5A) ROUTE ON/UNDER **Route On Structure** HBP FUNDING ELIGIBILITY **Not Eligible**

IDENTIFICATION	
(5B) ROUTE TYPE	County Hwy
(5C) SERVICE TYPE	Mainline
(5D) ROUTE NUMBER	00000
(5E) SUFFIX	N/A (NBI)
(6A) FEATURE INTERSECTED	BIG SLOUGH
(9) LOCATION	400' N of 45th St.
(16) LATITUDE	37 ° 46 ' 02.64 "
(17) LONGITUDE	97 ° 27 ' 41.20 "
(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	Tyler Rd.

GEOMETRIC DATA	
(112) NBIS BRIDGE DEFINITION	Long Enough
(49) STRUCTURE LENGTH	118.1 FT
(48) MAXIMUM SPAN LENGTH	44.9 FT
(32) ROUTE WIDTH	27.9 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	27.9 FT
(52) DECK WIDTH OUT TO OUT	29.9 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	27.9 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

FUNCTIONAL DESCRIPTION	
(26) FUNCTIONAL CLASSIFICATION	Urban 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	City/Municipal Hwy Agenc
(22) OWNER	City/Municipal Hwy Agenc
(37) HISTORICAL SIGNIFICANCE	Hist sign not determin
(101) PARALLEL STRUCTURE	No bridge exists
(103) TEMPORARY STRUCTURE	Unknown (NBI)

STRUCTURE AND MATERIALS	
(45) NUMBER OF MAIN SPANS	3
(43B) MAIN SPAN DESIGN TYPE	Slab
(43A) MAIN SPAN MATERIAL TYPE	Concrete Continuous
(107) DECK TYPE	Concrete-Cast-in-Place
(108A) DECK SURFACE	Monolithic Concrete
(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)

AGE AND SERVICE	
(29) AVERAGE DAILY TRAFFIC	2,015
(109) AVERAGE DAILY TRUCK TRAFFIC	6 %
(30) YEAR OF ADT	2010
(27) YEAR BUILT	1989
(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

CONDITION	
(58) DECK CONDITION RATING	6
(59) SUPERSTRUCTURE CONDITION	8
(60) SUBSTRUCTURE CONDITION	8
(62) CULVERT CONDITION	N
(61) STREAM STABILITY / CHANNEL	8

LOAD RATING	
(66) INVENTORY LOAD RATING	50 ton, HS 27.00
(64) MAXIMUM LOAD RATING	83 ton, HS 45.00
(31) DESIGN LOAD	5 MS 18 (HS 20)
(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

APPRAISAL	
DEFICIENCY STATUS	Not Deficient
(72) BRIDGE ROUTE ALIGNMENT	8
(71) WATERWAY ADEQUACY	8
(113) SCOUR VULNERABILITY	5
(67) STRUCTURAL EVALUATION	8
(68) DECK WIDTH APPRAISAL	4
(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
SUFFICIENCY RATING	90.00
(36A) BRIDGE RAILS	1
(36B) RAIL TRANSITIONS	1
(36C) APPROACH GUARDRAILS	1
(36D) APPROACH GUARDRAIL ENDS	0

SCHEDULE			
(90) ROUTINEINSPECTION DATE			02/19/2014
(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)

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

PROPOSED IMPROVEMENTS	
(75A) TYPE OF WORK	Rehab Deck
(75B) WORK BY	Contract
(76) IMPROVEMENT LENGTH	200.00 FT
(94) BRIDGE COST	\$50000
(95) ROADWAY COST	\$15000
(96) TOTAL COST	\$75000
(97) COST ESTIMATE YEAR	2012
(114) FUTURE ADT	2,700
(115) FUTURE ADT YEAR	2028

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO	000870809006069	(1) STATE	Kansas	(4) CITY	Maize	(3) COUNTY	Sedgwick
LPA Bridge ID	002	(5A) ROUTE ON/UNDER	Route On Structure	HBP FUNDING ELIGIBILITY		Not Eligible	

NOTES

STRUCTURE
NOTES

INSPECTION NOTES Deck / Superstructure - Top has approximately 20% spall with map cracking. Large spall portion patched with asphalt. Cracks are not reflected through to the bottom of the slab. Edge has cracks / spall / eff. at and near the drip groove.

Substructure - Pier caps and concrete piles are sound.

ROADWAY
NOTES

Bridge No.

000870809006069

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Roadway looking North



Roadway looking South



Upstream elevation



Downstream elevation

Bridge No.

000870809006069

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Looking upstream



Looking downstream



Load posting sign



Upstream elevation

Bridge No.

000870809006069

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



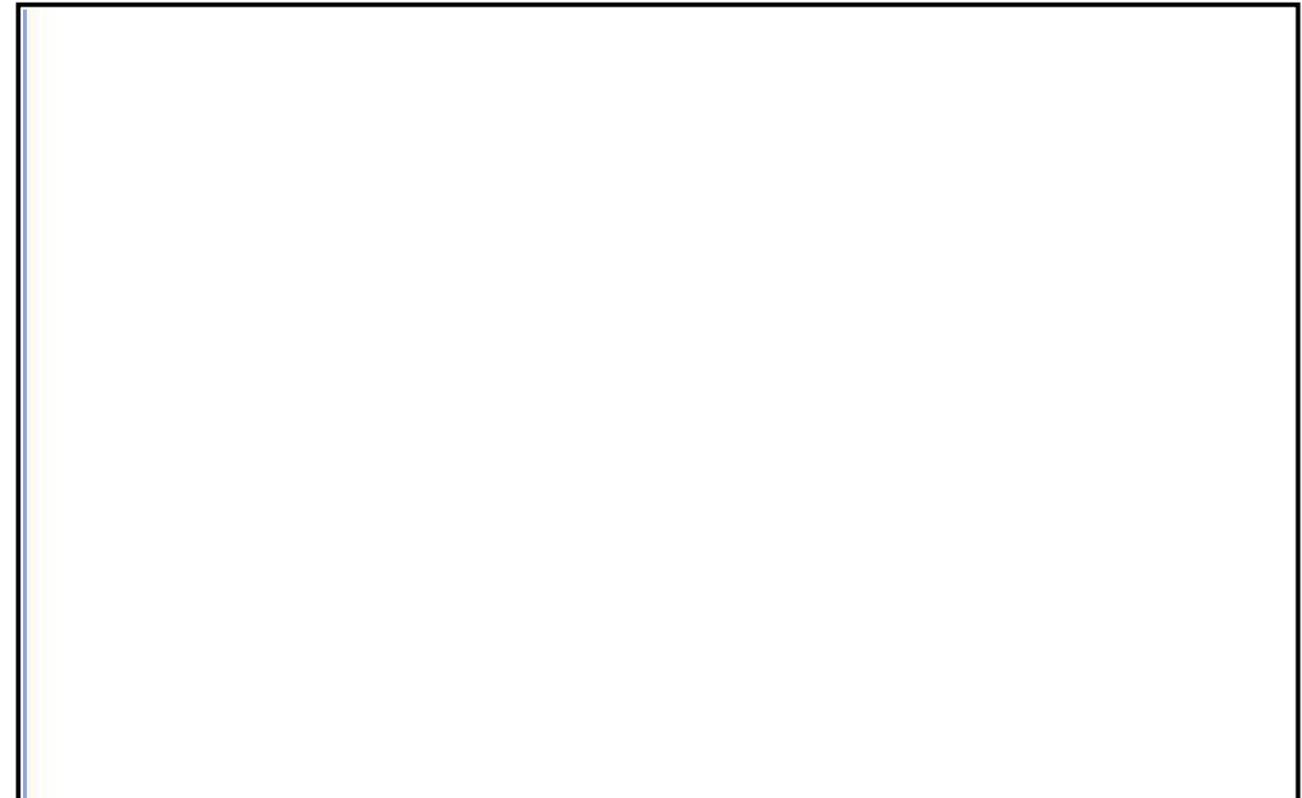
Typical deck edge cracking / spall / efflorescence at or near drip groove



Typical deck edge cracking / spall / efflorescence at or near drip groove



Spalled area on deck patched multiple times with asphalt



Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO **000870807606040** (1) STATE **Kansas** (4) CITY **Maize** (3) COUNTY **Sedgwick**
 LPA Bridge ID **003** (5A) ROUTE ON/UNDER **Route On Structure** HBP FUNDING ELIGIBILITY **Rehabilitation**

IDENTIFICATION	
(5B) ROUTE TYPE	County Hwy
(5C) SERVICE TYPE	Mainline
(5D) ROUTE NUMBER	00000
(5E) SUFFIX	N/A (NBI)
(6A) FEATURE INTERSECTED	Big Slough Trib.
(9) LOCATION	0.33 Mi. W of Tyler Rd.
(16) LATITUDE	37 ° 47 ' 45.33 "
(17) LONGITUDE	97 ° 27 ' 06.51 "
(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	61st St.

FUNCTIONAL DESCRIPTION	
(26) FUNCTIONAL CLASSIFICATION	Urban 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	City/Municipal Hwy Agenc
(22) OWNER	City/Municipal Hwy Agenc
(37) HISTORICAL SIGNIFICANCE	Hist sign not determin
(101) PARALLEL STRUCTURE	No bridge exists
(103) TEMPORARY STRUCTURE	Unknown (NBI)

AGE AND SERVICE	
(29) AVERAGE DAILY TRAFFIC	200
(109) AVERAGE DAILY TRUCK TRAFFIC	5 %
(30) YEAR OF ADT	2010
(27) YEAR BUILT	1948
(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	2 M 13.5 (H 15)
(65) INVENTORY LOAD RATING METHOD	LF Load Factor
(63) OPERATING (MAX) LOAD RATING METHOD	LF Load Factor
(70) POSTING REQUIREMENTS	30.0-39.9%below
(41) POSTING STATUS	Posted for load

SCHEDULE			
(90) ROUTINEINSPECTION DATE			02/19/2014
(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	Repl-Load Capacity
(75B) WORK BY	Contract
(76) IMPROVEMENT LENGTH	200.00 FT
(94) BRIDGE COST	\$120000
(95) ROADWAY COST	\$50000
(96) TOTAL COST	\$200000
(97) COST ESTIMATE YEAR	2015
(114) FUTURE ADT	300
(115) FUTURE ADT YEAR	2028

GEOMETRIC DATA	
(112) NBIS BRIDGE DEFINITION	Long Enough
(49) STRUCTURE LENGTH	27.9 FT
(48) MAXIMUM SPAN LENGTH	6.9 FT
(32) ROUTE WIDTH	27.9 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	19.4 FT
(52) DECK WIDTH OUT TO OUT	21.7 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	19.0 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	4
(43B) MAIN SPAN DESIGN TYPE	Culvert
(43A) MAIN SPAN MATERIAL TYPE	Concrete
(107) DECK TYPE	N N/A (NBI)
(108A) DECK SURFACE	N N/A (no deck (NBI))
(108B) MEMBRANE	N/A (no deck (NBI))
(108C) DECK PROTECTION	N N/A (no deck (NBI))
(46) NUMBER OF APPROACH SPANS	0
(44B) APPROACH SPAN DESIGN TYPE	-1
(44A) APPROACH SPAN MATERIAL TYPE	Unknown (NBI)

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

APPRAISAL	
DEFICIENCY STATUS	Functionally Obsolete
(72) BRIDGE ROUTE ALIGNMENT	7
(71) WATERWAY ADEQUACY	6
(113) SCOUR VULNERABILITY	8
(67) STRUCTURAL EVALUATION	5
(68) DECK WIDTH APPRAISAL	3
(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
SUFFICIENCY RATING	57.40
(36A) BRIDGE RAILS	0
(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

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO	000870807606040	(1) STATE	Kansas	(4) CITY	Maize	(3) COUNTY	Sedgwick
LPA Bridge ID	003	(5A) ROUTE ON/UNDER	Route On Structure	HBP FUNDING ELIGIBILITY		Rehabilitation	

NOTES

STRUCTURE NOTES -

INSPECTION NOTES
Culvert - Minor cracking, no exposed reinforcing.
Channel - Approximately 40% silt and trash filling barrels. Needs cleaned out.

ROADWAY NOTES -

Bridge No.

000870809006069

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Roadway looking East



Roadway looking West



Upstream elevation



Downstream elevation

Bridge No.

000870809006069

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Looking upstream



Looking downstream



Load posting sign



Siltation and debris to be removed

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO **000870809006041** (1) STATE **Kansas** (4) CITY **Maize** (3) COUNTY **Sedgwick**
 LPA Bridge ID **004** (5A) ROUTE ON/UNDER **Route On Structure** HBP FUNDING ELIGIBILITY **Not Eligible**

IDENTIFICATION	
(5B) ROUTE TYPE	County Hwy
(5C) SERVICE TYPE	Mainline
(5D) ROUTE NUMBER	00000
(5E) SUFFIX	N/A (NBI)
(6A) FEATURE INTERSECTED	Little Slough
(9) LOCATION	600' S. of 61st St.
(16) LATITUDE	37 ° 47 ' 39.44 "
(17) LONGITUDE	97 ° 27 ' 42.31 "
(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	Tyler Rd

FUNCTIONAL DESCRIPTION	
(26) FUNCTIONAL CLASSIFICATION	Urban 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	City/Municipal Hwy Agenc
(22) OWNER	City/Municipal Hwy Agenc
(37) HISTORICAL SIGNIFICANCE	Not eligible for NRHP
(101) PARALLEL STRUCTURE	No bridge exists
(103) TEMPORARY STRUCTURE	Unknown (NBI)

AGE AND SERVICE	
(29) AVERAGE DAILY TRAFFIC	200
(109) AVERAGE DAILY TRUCK TRAFFIC	5 %
(30) YEAR OF ADT	2010
(27) YEAR BUILT	1970
(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	17 ton, HS 8.00
(64) MAXIMUM LOAD RATING	22 ton, HS 11.00
(31) DESIGN LOAD	5 MS 18 (HS 20)
(65) INVENTORY LOAD RATING METHOD	LF Load Factor
(63) OPERATING (MAX) LOAD RATING METHOD	LF Load Factor
(70) POSTING REQUIREMENTS	>39.9% below
(41) POSTING STATUS	Posting Recommended

SCHEDULE	
(90) ROUTINE INSPECTION DATE	02/19/2014
(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	Repl-Load Capacity
(75B) WORK BY	Unknown (NBI)
(76) IMPROVEMENT LENGTH	120.00 FT
(94) BRIDGE COST	\$100000
(95) ROADWAY COST	\$20000
(96) TOTAL COST	\$175000
(97) COST ESTIMATE YEAR	2015
(114) FUTURE ADT	80
(115) FUTURE ADT YEAR	2028

GEOMETRIC DATA	
(112) NBIS BRIDGE DEFINITION	Long Enough
(49) STRUCTURE LENGTH	25.9 FT
(48) MAXIMUM SPAN LENGTH	4.9 FT
(32) ROUTE WIDTH	27.9 FT
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB	26.9 FT
(52) DECK WIDTH OUT TO OUT	26.9 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	26.9 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	4
(43B) MAIN SPAN DESIGN TYPE	Culvert
(43A) MAIN SPAN MATERIAL TYPE	Steel
(107) DECK TYPE	N N/A (NBI)
(108A) DECK SURFACE	N N/A (no deck (NBI))
(108B) MEMBRANE	N/A (no deck (NBI))
(108C) DECK PROTECTION	N N/A (no deck (NBI))
(46) NUMBER OF APPROACH SPANS	0
(44B) APPROACH SPAN DESIGN TYPE	-1
(44A) APPROACH SPAN MATERIAL TYPE	Unknown (NBI)

CONDITION	
(58) DECK CONDITION RATING	N
(59) SUPERSTRUCTURE CONDITION	N
(60) SUBSTRUCTURE CONDITION	N
(62) CULVERT CONDITION	7
(61) STREAM STABILITY / CHANNEL	7

APPRAISAL	
DEFICIENCY STATUS	Not Deficient
(72) BRIDGE ROUTE ALIGNMENT	7
(71) WATERWAY ADEQUACY	7
(113) SCOUR VULNERABILITY	8
(67) STRUCTURAL EVALUATION	4
(68) DECK WIDTH APPRAISAL	5
(69) HORIZ. UNDERCLEARANCE APPRAISAL	N
SUFFICIENCY RATING	71.30
(36A) BRIDGE RAILS	0
(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

Bridge Inventory & Appraisal (English)

(8) STRUCTURE NO	000870809006041	(1) STATE	Kansas	(4) CITY	Maize	(3) COUNTY	Sedgwick
LPA Bridge ID	004	(5A) ROUTE ON/UNDER	Route On Structure	HBP FUNDING ELIGIBILITY		Not Eligible	

NOTES

STRUCTURE NOTES _Delete this inspection date 5/11/2010

INSPECTION NOTES Culvert - Bottom of CMP has superficial corrosion and minor pitting . No deformation of pipes. Channel - Minor debris in pipes.
Posting required. Post at 14-20-23. Move the posting signs from structure 002 (Tyler near 45th St.) to this structure.

ROADWAY NOTES -

Bridge No.

00870809006041

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



UTC 2014-02-19 16:47:33
 SW map
 N:097°26'42.56"
 W:027°47'33.76"

Roadway looking North



UTC 2014-02-19 16:48:04
 SW map
 N:097°26'42.56"
 W:027°47'33.76"

Upstream elevation



UTC 2014-02-19 16:47:37
 SW map
 N:097°26'42.56"
 W:027°47'33.76"

Downstream elevation



UTC 2014-02-19 16:47:49
 SW map
 N:097°26'42.56"
 W:027°47'33.76"

Looking upstream

Bridge No.

00870809006041

Inspection Date:

02/19/2014

County:

Sedgwick

Inspector:

CWPJ



Looking downstream

