



Structure Inventory and Appraisal

Bridge ID: GOODRICH-129151
FHWA No.: 129151

Official	SR: 85.8	SD/FO: Not Deficient or Obsolete
Unofficial	SR: 83.8	SD/FO: Functionally Obsolete

IDENTIFICATION

7 Facility Carried: LOCAL
 8B Rte. Signng Prefix: 4
 5C Level of Service: 1 - MAINLINE
 5D Inventory Route: 00000
 City: RURAL
 3 County: 024 - Crawford
 9 Location: 084392405
 5E Directional Suffix: 0 - NOT APPLICABLE
 6 Feature Intersected: SMALL STREAM
 2 District: 0
 Garage: 000
 98 Border Bridge Code:
 % Responsibility: 0
 99 Border Bridge No.:

INSPECTION

90 Inspection Date: 03/30/2016
 Next Routine Insp Date: 03/30/2018
 Inspection Agency: 5 - Consultant
 93A FC Inspection Date:
 92A FC Frequency: 0
 93B UW Inspection Date:
 92B UW Frequency: 0
 93C SI Date:
 92C SI Frequency: 0
 Other Non-NBI Date:
 Other Non-NBI Freq:
 Inspection Type: N/A
 91 Frequency: 24
 Next Insp Type: Regular
 Inspection Group: Crawford County
 Next FC Insp.: NA
 Next UW Insp.: NA
 Next Spec. Insp.: NA
 Next Other Insp.: NA

STRUCTURE TYPE AND MATERIALS

43A Main Span: 3 - Steel
 43B Main Span Design: 02 - Stringer/Multi-beam or Girder
 45 No. Spans Main Unit: 1
 44A Appr. Span: 000 - NA
 44B Appr. Span Design: 000 - NA
 46 No. of Appr. Spans: Near 0 Far 0
 107 Deck Type: 8 - Wood or Timber
 108A Wearing Surface: 7 - Wood or Timber
 108B Membrane: 0 - None
 108C Deck Protection: 0 - None

CONDITION

58 Deck: 7 - Good Condition (some minor problems)
 59 Super: 7 - Good Condition (some minor problems)
 60 Sub: 7 - Good Condition (some minor problems)
 61 Channel/Channel Prot.: 5 - Bank eroded.. major damage
 62 Culvert: N - Not Applicable

GEOMETRIC DATA

48 Length Max Span: 40 ft.
 49 Structure Length: 40 ft.
 34 Skew: 30°
 Deck Area: 1012.0 sq. ft.
 50B Curb/Sdwk Width R: 0 ft.
 50A Curb/Sdwk Width L: 0 ft.
 51 Width Curb to Curb: 24.3 ft.
 52 Width Out to Out: 25.3 ft.
 32 Appr. Roadway width: 20 ft.
 (w/ Shoulders)
 33 Median: 0 - No median
 35 Structure Flared: 00 - No flare
 10 Vertical Clearance: 99'99"
 47 Horiz. Clearance: 24'00"
 53 Min. Vert. Clearance Over: 99'99"
 54B Min. Vert. Underclearance: 00'00"
 55 Min. Lat. Underclearance R: 00'00"
 56 Min. Lat. Underclearance L: 00'00"

APPRAISAL

67 Str. Evaluation: 6 - Equal to present minimum criteria
 68 Deck Geometry: 6 - Equal to present minimum criteria
 69 Underclear Vert & Horiz: N - Not applicable
 71 Waterway Adequacy: 4 - Occasional Flooding - Significant Delays
 72 Approach Alignment: 3 - Intolerable - high priority of corrective action
 36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.
 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 113 Scour Critical: 8 - Stable - Excellent Condition

NAVIGATION DATA

38 Navigation Control:
 0 - No navigation control on waterway (bridge permit not required)
 111 Pier Protection:
 39 Vertical Clearance: 00'00"
 40 Horiz. Clearance: 000'00"

LOAD RATING AND POSTING

31 Design Load: 0 - Unknown
 63 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.
 64 Operating Rating: 32.5 Tons
 65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.
 66 Inventory Rating: 27.0 Tons
 70 Posting: 5 - Equal to or above legal loads
 41 Posting Status: A - Open

16 Latitude: 42.06667756 17 Longitude: -95.3410388

AGE AND SERVICE

27 Year Built: 2003 Design No.: 0
 106 Year Reconstructed: 0
 42A Type of Service on: 1 - Highway
 42B Type of Service Under: 5 - Waterway
 28A Lanes on: 2 28B Lanes under: 0
 29 ADT: 60 30 Year of ADT: 2012
 109 Truck ADT: 0% Speed Limit: 55
 19 Detour Length: 4 ml.

FRA No. (if RR Bridge):
 Mile Post:

CLASSIFICATION

112 NBIS Length: Y
 26 Functional Class: 09 - Rural - Local
 100 STRAHNET: 0 - Not a defense highway
 101 Parallel Structure: N - No parallel structure
 102 Direction of Traffic: 2 - 2-way traffic
 22 Owner: 02 - County Highway Agency
 21 Custodian: 02 - County Highway Agency
 37 Historical Significance: 5 - Not eligible
 75A Type of Work Proposed:
 75B Work Done by:



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 % Responsibility: 0
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INSPECTION

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 Next Routine Insp Date: 04/21/2016
 Inspection Agency: 5 - Consultant
 93A FC Inspection Date:
 92A FC Frequency: 0
 93B UW Inspection Date:
 92B UW Frequency: 0
 93C SI Date:
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Inspection Type: N/A
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 108C Deck Protection: 0 - None

CONDITION

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 59 Super: 7 - Good Condition (some minor problems)
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 72 Approach Alignment: 4 - Meets minimum tolerable limits
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 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
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 75A Type of Work Proposed:
 75B Work Done by:

Project Number: LB49-24		RAWFORD COUNTY DAY LABOR PROJECT SHEET																				Date:													
Location: 200703g		Section: 24																				Township: Goodrich													
Description of Work:		Replace old bridge with new 27" I beam bridge with 10" steel H piling, wings and wood deck.																				FHWA No: 129151													
For the month of: July & Aug.																						Bridge Type: I beam													
Employee	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Terry Lally	8			8	8	8	8	4			8	4									8	8	8	8	8			8	8	8	8	8	128	\$ 36.58	\$4,682.24
Dan Blunk	8			8	8	8	8				8	4										8	8	8	8			8	8	8	8	116	\$ 33.49	\$3,884.84	
Howard Clark	8			8	8	8	8	4			8	4									8	8	8	8	8			8	8	8	8	128	\$ 26.54	\$3,397.12	
Corey Cumyn	8			8		8	8	4			8	4									8	8	8	8	4			8	8	8	8	116	\$ 26.51	\$3,075.16	
Kyle Schultz	8			8	8	8	8	4			8	4									8	8	8	8	8				8	8	8	120	\$ 22.04	\$2,644.80	
Chris Boeck	8			8	8	8															8	8	8	8	8			8	8	8	8	104	\$ 9.95	\$1,034.80	
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																						Labor Cost:		\$18,718.96											
Equipment	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
#83 Cat Excavator	2			7	7	7	6	4			6	4									3	7	7	7	4			4	5	6	2	88	\$ 72.99	\$6,423.12	
#73 98 LINKBELT				4		4		2													3		3	5	2			2	6	6	6	43	\$ 97.52	\$4,193.36	
#1o3 Tele-Crane				4																												4	\$ 89.90	\$359.60	
#75 IHT> Dozer						2	2				3										1				1							9	\$ 39.84	\$358.56	
#59 J. D. Dozer					4	2	2				3										3		2									16	\$ 25.17	\$402.72	
#32 J.D. crawler						2	2				3												2									9	\$ 26.95	\$242.55	
#87 Air Comp.											1														1							2	\$ -	\$0.00	
#63 Welder	6																															3	9	\$ -	\$0.00
#18 Tool Truck	2			2	2	2	2	2			2	2									2	2	2	2	2			2	2	2	2	34	\$ 9.26	\$314.84	
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																						Equipment Costs:		\$12,294.75											
No. of pieces	Size	Materials List		Stockpile location or	New/	No.	* Units	Unit	Total																										
		Description of materials used		purchased from	Used	Units		Cost	Costs																										
8	27"	40" I BEAMS		Direct Charge #320	Used	8	each	\$ 320.00	\$ 2,560.00	Total Labor Costs: \$18,718.96																									
210	7/8"	2" bolts		stock	New/	210	each	\$ 0.75	\$ 157.50	Materials (page 1): \$ 2,977.41																									
210	7/8"	Flat washers		stock	New/	210	each	\$ 0.16	\$ 33.60	Materials (page 2): \$ 16,252.53																									
7	tons	limestone		Denison		7	ton	\$ 12.33	\$ 86.31	Total Material Cost: \$19,229.94																									
14	tons	recycled concrete		Vall		14	ton	\$ 10.00	\$ 140.00	Equipment Costs: \$12,294.75																									
						0		\$ -	\$ -																										
						0		\$ -	\$ -																										
						0		\$ -	\$ -																										
						0		\$ -	\$ -	Total Costs: \$50,243.65																									
Material Costs (page 1): \$ 2,977.41																																			

Project Number:		WFORD COUNTY DAY LABOR PROJECT SHEET																									Date: November 17, 2003										
Location: 271103g		Section: 24																									Township: Goodrich										
Description of Work:		<i>replace bridge rail that was knocked off</i>																									FHWA No: 129151										
For the month of: Nov.																											Bridge Type:										
Employee	Hours worked per day																															Total Hours	Hourly Rate	Totals			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
Terry Lally																																	2	2	\$ 36.58	\$73.16	
Dan Blunk																																2	2	\$ 33.49	\$66.98		
Howard Clark																																2	2	\$ 26.54	\$53.08		
Corey Curnyn																																2	2	\$ 26.51	\$53.02		
Kyle Schultz																																2	2	\$ 22.04	\$44.08		
Chris Boeck																																0	0	\$ 9.95	\$0.00		
																																0	0	\$ -	\$0.00		
																																0	0	\$ -	\$0.00		
																																0	0	\$ -	\$0.00		
																																0	0	\$ -	\$0.00		
																																0	0	\$ -	\$0.00		
																																0	0	\$ -	\$0.00		
																																	Labor Cost:		\$290.32		
Equipment	Hours worked per day																															Total Hours	Hourly Rate	Totals			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
#83 Cat Excavater																																		0	0	\$ 72.99	\$0.00
#73 Koering Crane																																		0	0	\$ 97.52	\$0.00
#103 Tele-Crane																																		0	0	\$ 89.90	\$0.00
#75 IHT> Dozer																																		0	0	\$ 39.84	\$0.00
#59 J. D. Dozer																																		0	0	\$ 25.17	\$0.00
#32 J.D. crawler																																		0	0	\$ 26.95	\$0.00
#87 Air Comp.																																		0	0	\$ -	\$0.00
#63 Welder																																		0	0	\$ -	\$0.00
#18 Tool Truck																																	2	2	\$ 9.26	\$18.52	
																																		0	0	\$ -	\$0.00
																																		0	0	\$ -	\$0.00
																																		0	0	\$ -	\$0.00
																																	Equipment Costs:		\$18.52		
No. of pieces	Size	Materials List		Sockpile location or purchased from	New/ Used	No. Units	* Units	Unit Cost	Total Costs																												
		Description of materials used																																			
1	26'	guard rail	stock	used	26	ln. ft.	\$ 1.00	\$ 26.00																													
2		rail posts	stock	used	2	each	\$ 8.50	\$ 17.00	Materials (page 1): \$ 43.00																												
					0		\$ -	\$ -	Materials (page 2): \$ -																												
					0		\$ -	\$ -																													
					0		\$ -	\$ -																													
					0		\$ -	\$ -	Total Material Cost: \$43.00																												
					0		\$ -	\$ -	Equipment Costs: \$18.52																												
					0		\$ -	\$ -	Total Costs: \$351.84																												
Material Costs (page 1):									\$ 43.00																												

Crawford County Secondary Roads Material List				Project No.:				
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Cost	Total Cost
	10"x10"	40' Steel H@42 lb./ft.	Denison	new	0	lin. Ft.	\$ 8.50	\$0.00
12	10"x10"	50' Steel H@42 lb/ft	Denison	new	600	lin. Ft.	\$ 7.80	\$4,680.00
	10"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft.	\$ 3.13	\$0.00
	12"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft.	\$ 4.90	\$0.00
	1/2"x14"	10' steel plates	Denison	new	0	lin. Ft.	\$ 6.43	\$0.00
2	25'	Steel Caps			2	each	\$ 314.00	\$628.00
	30 1/2"	Diaphragms			0	each	\$ 11.97	\$0.00
42	38 1/2"	Diaphragms			42	each	\$ 14.05	\$590.10
14	85lb.	rail posts			14	each	\$ 8.50	\$119.00
	straight 20'	7 ga.sheet piling	Denison	new	0	each	\$ 123.22	\$0.00
	45degree	sheet piling	Denison	new	0	each	\$ 151.40	\$0.00
	90degree	sheet piling	Denison	new	0	each	\$ 139.80	\$0.00
					0			\$0.00
4	13'	gaurdrail		used	52	lin. Ft.	\$ 1.00	\$52.00
4	26'	gaurdrail			104	lin. Ft.	\$ 1.00	\$104.00
	25'	W-beam gaurdrail		new	0	lin. Ft.	\$ 2.25	\$0.00
4	2'	gaurdrail terminal ends		new	4	each	\$ 28.00	\$112.00
	1/4"	2 1/2"x2 1/2" angle 20'	Denison	new	0	lin. Ft.	\$ 0.78	\$0.00
	3/8"	3"x3" angle 20'	Denison	new	0	lin. Ft.	\$ 1.35	\$0.00
					0			\$0.00
875	1/2"	wire cable	Denison	new	875	lin. Ft.	\$ 1.18	\$1,032.50
80	1/2"	cable clamps	Denison	new	80	each	\$ 0.38	\$30.40
					0			\$0.00
	1/2"	20' rebar	Denison	new	0	lin. Ft.	\$ 0.16	\$0.00
	5/8"	20' rebar	Denison	new	0	lin. Ft.	\$ 0.22	\$0.00
					0			\$0.00
					0			\$0.00
Total Materials (page three) :								\$7,348.00