

Structure Inventory and Appraisal

Bridge ID: MORGAN-130485	Official	SR: 83,8	SD/FO: Not Deficient or Obsolete
FHWA No.: 130485	Unofficial	SR: 83.8	SD/FO: Not Deficient or Obsolete

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-	IDENTIFICATION	Y		INSPECTION	
7 Facility Carried:	LOCAL	90 Inspection Date:	04/01/2016	Inspection Type:	N/A
5B Rte. Signing Prefix:	4	Next Routine Insp Date:	04/01/2018	91 Frequency:	24
5C Level of Service:	1 - MAINLINE			Next Insp Type:	Regular
5D Inventory Route:	00000	Inspection Agency:	5 - Consultant	Inspection Group:	Crawford County
City:	RURAL	93A FC Inspection Date:			
3 County:	024 - Crawford	92A FC Frequency:	0	Next FC Insp.:	NA
9 Location:	085400102	93B UW Inspection Date:	:		
5E Directional Suffix:	0 - NOT APPLICABLE	92B UW Frequency:	0	Next UW Insp.:	NA
6 Feature Intersected:	BEAVER CREEK	93C SI Date:			
2 District:	0	92C SI Frequency:	0	Next Spec. Insp.:	NA.
Garage:	000	Other Non-NBI Date:			
98 Border Bridge Code:		Other Non-NBI Freq.:		Next Other Insp.:	NA.
% Responsibility:	O.)		CONDITION	
99 Border Bridge No.:		58 Deck:	7 - Good Condition (s	some minor problems)	
*****	ATURE TYPE AND MATERIAL 6	50 Super	6 - Setisfactory Cond	fition (minor deterioration)	

	1	· · · · · · · · · · · · · · · · · · ·
STRUCTURE TYPE AND MATERIALS	59 Super:	6 - Satisfactory Condition (minor deterioration)
43A Main Span 3 - Steel	60 Sub:	6 - Satisfactory Condition (minor deterioration)
43B Main Span Design: 02 - Stringer/Multi-beam or Girder	61 Channel/Channel Prot.:	7 - Bank protection needs minor repairs
45 No. Spans Main Unit: 1	62 Culvert:	N - Not Applicable
44A Appr. Span 000 - NA	>	
44B Appr. Span Design: 000 - NA	ľ	APPRAISAL
446 Appr. Span design. Coo - NA	67 Str. Evaluation:	6 - Equal to present minimum criteria
46 No. of Appr. Spans: Near 0 Far 0		

		68 Deck Geometry:	5 - Somewhat better than minimum adequacy
107 Deck Type:	8 - Wood or Timber	69 Underclear Vert & Horiz;	N - Not applicable
108A Wearing Surface:	8 - Gravel	71 Waterway Adequacy:	6 - Occasional Overtopping of Approaches
108B Membrane:	0 - None	72 Approach Alignment:	6 - Equal to present minimum criteria
108C Deck Protection:	0 - None	36A Bridge Rall:	0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.
>	GEOMETRIC DATA	36B Transition:	0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
48 Length Max Span:	41 ft.	36C Approach Rail:	0 - DOES NOT MEET CURRENT \$AFETY STANDARDS, OR IS NOT THERE AND IS NEEDED
49 Structure Length:	43 fL	36D Approach Rail Ends:	0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

34 Skew:	0°	113 Scour Critical:	8 - Stable - Excellent Condition
Deck Area:	1010.5 sq. lt.		
50B Curb/Sdwk Width R:	0 ft.	31 Design Load:	LOAD RATING AND POSTING 0 - Unknown
50A Curb/Sdwk Width L:	0 ft.	63 Rating Method:	1 - Load Factor (LF) reported in english tons using HS-20 loading.
51 Width Curb to Curb:	23.5 ft.	64 Operating Rating:	32.4 Tons
52 Width Out to Out:	23.5 ft.	65 Rating Method: 66 Inventory Rating:	 Load Factor (LF) reported in english tons using HS-20 loading. Tons
32 Appr. Roadway width:	26 ft.	70 Posting:	5 - Equal to or above legal loads
(w/ Choulders)		41 Poeting Status	A - Open

ı	(w/ Silculders)		41 Tushing Status. A+1	Орен		/
ı	33 Median:	0 - No median		AGE AN	ID SERVICE	
ı	35 Structure Flared:	00 - No Bare	27 Year Built:	1971	Design No.:	0
ı	10 Vertical Clearance:	9999"	106 Year Reconstructed:	2011		
	47 Horlz, Glearance:	20'04"	42A Type of Service on:	1 - Highway		
	53 Min. Vert. Clearance Over;	99'99"	42B Type of Service Under:	5 - Waterway		
	54B Min, Verl. Underclearance	: 00'00"	28A Lanes on:	2	28B Lanes under:	0

4B Min, Verl. Underclearance: 00'00"	28A Lanes on:	2	28B Lanes under:	0
55 Min. Lat. Underclearance R: 00'00"	29 ADT:	20	30 Year of ADT:	2012
6 Min. Lat. Underdearance L: 00'00"	109 Truck ADT:	0 %	Speed Limit:	55
NAVIGATION DATA	19 Detour Length:	4 ml.		

l	38 Navigation Control:	r	CLASSIFICATION
l	0 - No navigation control on waterway (bridge permit not required)	112 NBIS Length:	Y
l	111 Pier Protection:	26 Functional Class:	09 - Rural - Local
l	39 Vertical Clearance: 00'00"	100 STRAHNET:	0 - Not a defense highway
Į	40 Horiz. Clearance: 000'00*	101 Parellel Structure:	N - No parallel structure
í		102 Direction of Traffic:	2 - 2-way traffic
ı	46 h 485-44. 40 0044 4022 47 f contrator 05 45979500	22 Owner:	02 - County Highway Agency

16 Latitude: 42,20114233	17 Longitude: -95.45878522	22 Owner:	02 - County Highway Agency
Q E888400. 42.20114200	Tr congress. Co. Society	21 Custodian:	02 - County Highway Agency
		37 Historical Significance:	5 - Not eligible
EDA No. (if PD Bridge):		75A Type of Work Proposed:	

FRA No. (if RR Bridge):

Mile Post:

37 Historical Significance: 5 - Not eligible
75A Type of Work Proposed:
75B Work Done by:



Structure Inventory and Appraisal

Bridge ID: MORGAN-130485 Official SR: 83.8 SD/FO: Not Deficient or Obsolete
FHWA No.: 130485 Unofficial SR: 83.8 SD/FO: Not Deficient or Obsolete

IDENTIFICATION

7 Facility Carried: LOCAL

5B Rte. Signing Prefix: 4

5C Level of Service: 1 - MAINLINE

5D Inventory Route: 00000

 City:
 RURAL

 3 County:
 024 - Crawford

 9 Location:
 085400102

5E Directional Suffix: 0 - NOT APPLICABLE 6 Feature Intersected: BEAVER CREEK

2 District: 0
Garage: 0000
98 Border Bridge Code:
% Responsibility: 0
99 Border Bridge No.:

STRUCTURE TYPE AND MATERIALS

GEOMETRIC DATA

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

107 Deck Type: 8 - Wood or Timber108A Wearing Surface: 8 - Gravel108B Membrane: 0 - None

108C Deck Protection: 0 - None

48 Length Max Span: 41 ft.
49 Structure Length: 43 ft.
34 Skew: 0°

Deck Area: 1010.5 sq. ft.

 50B Curb/Sdwk Width R:
 0 ft.

 50A Curb/Sdwk Width L:
 0 ft.

 51 Width Curb to Curb:
 23.5 ft.

 52 Width Out to Out:
 23.5 ft.

 32 Appr. Roadway width:
 26 ft.

(w/ Shoulders)

33 Median: 0 - No median
35 Structure Flared: 00 - No flare
10 Vertical Clearance: 99'99"
47 Horiz. Clearance: 20'04"
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"

NAVIGATION DATA

0 - No navigation control on waterway (bridge permit not required)

111 Pier Protection:39 Vertical Clearance: 00'00"

38 Navigation Control:

40 Horiz. Clearance: 000'00"

16 Latitude: 42.20114233 17 Longitude: -95.45878522

FRA No. (if RR Bridge):

Mile Post:

INSPECTION
90 Inspection Date: 04/25/2014 Inspe

 90 Inspection Date:
 04/25/2014
 Inspection Type:
 N/A

 Next Routine Insp Date:
 04/25/2016
 91 Frequency:
 24

Next Insp Type: Regular

Inspection Agency: 5 - Consultant Inspection Group: Crawford County

93A FC Inspection Date:

92A FC Frequency: 0

93B UW Inspection Date:

92B UW Frequency: 0

93C SI Date:

0

92C SI Frequency: 0 Next Spec. Insp.: NA

Other Non-NBI Date:

Other Non-NBI Freq.: Next Other Insp.: NA

CONDITION

Next FC Insp.:

Next UW Insp.:

NA

NA

0

58 Deck: 7 - Good Condition (some minor problems)
59 Super: 6 - Satisfactory Condition (minor deterioration)
60 Sub: 6 - Satisfactory Condition (minor deterioration)
61 Channel/Channel Prot.: 7 - Bank protection needs minor repairs

61 Channel/Channel Prot.: 7 - Bank protection needs minor repairs

62 Culvert: N - Not Applicable

APPRAISAL

67 Str. Evaluation: 6 - Equal to present minimum criteria
68 Deck Geometry: 5 - Somewhat better than minimum adequacy

69 Underclear Vert & Horiz: N - Not applicable

71 Waterway Adequacy: 6 - Occasional Overtopping of Approaches
72 Approach Alignment: 6 - Equal to present minimum criteria

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

LOAD RATING AND POSTING

31 Design Load: 0 - Unknown

63 Rating Method: 1 - Load Factor (LF) reported in english tons using HS-20 loading.

64 Operating Rating: 32.4 Tons

65 Rating Method: 1 - Load Factor (LF) 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

AGE AND SERVICE

27 Year Built: 1971 Design No.:

106 Year Reconstructed: 201142A Type of Service on: 1 - Highway42B Type of Service Under: 5 - Waterway

 28A Lanes on:
 2
 28B Lanes under:
 0

 29 ADT:
 20
 30 Year of ADT:
 2012

 109 Truck ADT:
 0 %
 Speed Limit:
 55

19 Detour Length: 4 mi.

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:

Crawford (County Day Labor E	sridge C	onstruction
Prepared By: TERRY		Date: 〜	1-14-11
Township: MORGAN	Section:	142	E911 Rd.: 210
FHWA No.: /30485	Date Reco	enstructed:	4-14-11
Describe Work: Add	5 rows of draw	hrains t	o 8 existing 20" I beams
b	tside 24" I beams		•
	new railing po		
Bridge Length: 43	1		Open Depth: / 5'
Beam Info.		数数な対象	Diaphragm info
Beam Type: W S	Deck Type: W000		#Bolts per Angle: 3
Beam Spacing: 31" c			
Beam Depth: 20"			Diaphragm Length: 30.5
Width Ti Flange: 7" 34	ickness, // # +o //4 Spacing on Bottom: ©		Diaphragm Size: / 🗇 "
Web Thickness: /2	1 5 (/4"		
Deck X-sector With Beam Spacing	177 11		
<u></u> ₹74,≯	[20"] [31"	-¥-31"→	- 24" 24"
X-section With Disphragm Spacing			
3' [F · 9'	P 9	r T o'
Substructure Comments:	10 WOOD PILL	N 6 1/	I CACH ABUTMENT
with	courted steel co		
(4716)	(DUITER STEEL CO	,	
Comments:			

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Project Nu	ımber:		-					• • • •					_	RAV	/FOR	D C	DUNT	TY D	AY L	ABO	R PR	OJE	CT \$	HEE1	ſ				Ī	Date: April 21, 2011						
Location:	030411	m																				Sect	ion:	1&2					To	wnsl	hîp:	Morgan				
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_	Crawford	d County Secondary Roads Material List		Pı	roject No.:			
No.	Size	Description of Materials Used:	Stockpile Location or	New or	No.	Units	Unit Cost	Total Cost
Pieces			Direct Purchase From	Used	Units	*(see below)	Ollic Cost	TOTAL COST
	12'	felt fabric	Denison		0	lin ft.	\$ 0.72	\$0.00
	12'	mesh fabric	Denison		0	lin.	\$ 2.00	\$0.00
	box	1"x6"x6" fabric staples	Denison		0	each	\$ 21.70	\$0.00
					0			\$0.00
	8d	nails	Denison		0	lb.	\$ 0.80	\$0.00
	16d	nails	Denison		0	lb.	\$ 0.69	\$0.00
	16d	double head nails	Denison		0	lb.	\$ 0.69	\$0.00
	60d	ringshank spikes	Denison		0	lbs.	\$ 1.35	\$0.00
					0			\$0.00
	3/4"	anchor bolts	Denison		0	each	\$ 2.80	\$0.00
	1/2"	maellable washers	Denison		0	each	\$ 0.94	\$0.00
	3/4"	maeilable washers	Denison		0	each	\$ 0.94	\$0.00
	1/2"	flat washers	Denison		0	each		\$0.00
	3/4"	flat washers	Denison		0	each		\$0.00
					0			\$0.00
	3/4"	2 1/2" bolts	Denison			each	\$ 0.70	\$0.00
	3/4"	3" bolts	Denison		0	each	\$ 0.80	\$0.00
	1/2"	9" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	10" bolts	Denison		0	each	\$ 0.98	\$0.00
	1/2"	11" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$ 1.84	\$0.00
	7/8"	2 1/2" bolts	Denison		0	each	\$ 0.86	\$0.00
	3/4"	8" bolt	Denison		0	each	\$ 1.10	\$0.00
	3/4"	9"bolt	Denison		0	each	\$2.60	\$0.00
	3/4"	10" bolt	Denison		0	each	\$ 1.25	\$0.00
	3/4"	11'	Denison		0	each	\$ 1.45	\$0.00
	3/4"	12" bolts	Denison		0	each	\$ 1.93	\$0.00
	•			1	To		(page four) :	\$0.00

Project N	lumber:												(RAV	VFOR	D C	OUN	TY D	AY L	ABC	R P	ROJE	CT S	HEE	T						D	ate:	April 21	. 2011	
Location	: 030411	m																			Γ	Sec	tion:	182					-	Ŧ			Morgan		· · · · ·
Descripti	on of Wo	rk;		Add	ed 2	24" [bean	ns cut	t dow	n to :	20" to	mat	ch the	e othe	er 8 b	eam	s to w	viden	the b	ridae	to 2	3.5' a	ınd bri	ut in 5	rows	s of d	liaphr	aom	s with					HWA No:	130485
For t	he month	of:			d rail																						,		- •					Bridge T	ype:
																																		l bear	••
Empl															Hou	rs w	orke	d per	day				•										Total	Hourly	
Emple	oyee	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	Hours	Rate	Totals
erry Lally	•					, 8		8	4			8	8	8																			44	\$ 39.66	\$1,745.0
Dan Blunk						8	В	8	8			8	8	8									i										56	\$ 33.33	\$1,866.4
loward Cl	lark ,					8	8	. 8	8			8	8	8				Ī —															56	\$ 31.07	\$1,739.9
(enny Mill	ег					8	8	8	8	-		8	8	.8				l															56	\$ 29.43	\$1,648.0
Reery Tim										,				<u> </u>																			0	\$ 26.24	\$0.00
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					Hours worked per day Total Hourly																														
Equip	ment	1	2	3	4	5	6	7	8	9	10	11	12	13						19	20	21	22	23	24	25	26	27	28	29	30	31	Hours	Rate	Totals
83 Cat E	xcavater				<u> </u>	Ť	ΙŤ	m	Ť	<u> </u>		-	<u> </u>	-13					· ; *	···											**	Ψ.	0	\$ 83.90	\$0.00
73 Link B						<u> </u>		†							H										\neg								0	\$ 117.97	\$0.00
103 Tele-						1	-									_										\neg			\vdash	_			0	\$107.68	\$0,00
75 IH Do							 			-			_										!			\dashv			П	-			ŏ	\$ 51.45	\$0.00
59 J. D. D			一					-								_									\neg		一十						0	\$ 33.58	\$0.00
#32 J.D. c																			\vdash	\vdash		\vdash			{		\dashv			т.			0	\$ 33.58	\$0.00
97 air cor			┪																			-								-			Ö	\$ 10.00	\$0.00
63 Welde			ᅦ					2		 		5			H						_				\dashv								7	\$ 10.00	\$70.00
#18 Tool T			_			2	2	2	2			2	2	2							_					一			\vdash				14	\$ 6.94	\$97.16
#68 Cat E			┪			5	2	4	7	 		6	7	6							\vdash				\dashv		-				\vdash		37	\$ 83.90	\$3,104.3
			_			<u> </u>	┝╼	ΙĖ	÷					<u> </u>												\dashv	\rightarrow		-				0	\$ -	\$0.00
			\neg				┢								-									-							\dashv		0	\$ -	\$0.00
					L	<u> </u>						L	l																			Fo		t Costs:	\$3,271.4
No. of						M	ateri	ałs L	ist				Sock	nile l	ocatio	n or	Ne	nud .	N:	0				Unit	Т	1	Total						uipiiiei	t 003(3,	#0,47 1.1
pieces	Size	ı			Des				terials used				Sockpile location or purchased from		1	Used		Units 2		* Units each		Cost											\$6,999.52		
2	24"	42' bear				4004						"" -	00	Costs \$ 840.00													T	otal Lat							
24	3"x12"		24' plank						stock			New/		576		In.ft.				420.00 : 3,68 :				Mata				Φ.	C 0E4 40	googlobaluscosidos.					
20	3"x 12			20' plank			stock															aterials (page 1). aterials (page 2).				6,051.48									
150	7/8"								stock stock				New/						\$	3.58 1.02			1,718.40		IVIZIE	ııaış	page	۷).	D	1,700.60					
60 7/8" 28 3/4"		2 1/2" bolts & nuts flat washers 2 1/2" bolts & nuts												New/				each		\$									To	tal Mate	rial Cost:	\$7,752.0			
											stock				New/				each																
30'				abric					stock				New/				each		\$									E	guipme	ent Costs:	\$3,271.46				
10		, -				10							stock			New/		30						.85											
IV I	→ Y10	4"x16" 16' bottom de ton rip-rap			IECK				stock Charter oak			Usedi				ln.ft.				.00															
25	ton	I.					-i-	***						`		, '			25 t				\$ 25.94 Costs (page 1):						•	Total C					\$18,023.06

	Crawford	d County Secondary Roads Material	Project No.:								
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Co	st	Total Cost		
	12'	felt fabric	Denison		0	lin ft.	\$ 0	.72	\$0.00		
<u>.</u>	12'	mesh fabric	Denison		0	lin.	\$ 2	.00	\$0.00		
	box	1"x6"x6" fabric staples	Denison		0	each	\$ 21	.70	\$0.00		
					0				\$0.00		
	8d	nails	Denison		0	lb.	\$ 0	.80	\$0.00		
	16d	nails	Denison		0	lb.	\$ 0	.69	\$0.00		
	16d	double head nails	Denison		0	lb.	\$ 0	.69	\$0.00		
	60d	ringshank spikes	Denison		0	lbs.	\$ 1	.35	\$0.00		
					0				\$0.00		
	3/4"	anchor bolts	Denison		0	each	\$ 2	.80	\$0.00		
	1/2*	maeliable washers	Denison		0	each	\$ 0	.94	\$0.00		
	3/4"	maellable washers	Denison		0	each	\$ 0	.94	\$0.00		
	1/2"	flat washers	Denison		0	each	• • • • • • • • • • • • • • • • • • • •		\$0.00		
	3/4"	flat washers	Denison		0	each			\$0.00		
					0				\$0.00		
	3/4"	2 1/2" bolts	Denison			each	\$ 0	.70	\$0.00		
	3/4"	3" bolts	Denison		0	each	\$ 0	.80	\$0.00		
	1/2"	9" bolts	Denison		0	each	\$ 1	.05	\$0.00		
	1/2"	10" bolts	Denison		0	each	\$ 0	.98	\$0.00		
	1/2"	11" bolts	Denison		0	each	\$ 1	05	\$0.00		
	1/2"	12" bolts	Denison		0	each	\$ 1	84	\$0.00		
	7/8"	2 1/2* bolts	Denison		0	each	\$ 0	86	\$0.00		
	3/4"	8" bolt	Denison		0	each	\$ 1.	10	\$0.00		
	3/4"	9*bolt	Denison		. 0	each	\$2.60	1	\$0.00		
	3/4"	10" bolt	Denison		0	each		25	\$0.00		
	3/4"	11'	Denison		0	each	\$ 1.	45	\$0.00		
	3/4"	12" bolts	Denison		0	each		93	\$0.00		
					To	otal Materials	(page fou	ır) :	\$0.00		