

Structure Inventory and Appraisal

Bridge ID: SOLDIER-131040 Official SR: 48.7 SD/FO: Not Deficient or Obsolete FHWA No.: 131040 Unofficial SR: 48.7 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 085413502 9 Location: 0 - NOT APPLICABLE 5E Directional Suffix: SMALL STREAM 6 Feature Intersected: 2 District: 0 Garage: 000

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel

98 Border Bridge Code:

99 Border Bridge No.:

% Responsibility:

107 Deck Type:

43B Main Span Design: 02 - Stringer/Multi-beam or Girder

45 No. Spans Main Unit: 2 44A Appr. Span 000 - NA 44B Appr. Span Design: 000 - NA

46 No. of Appr. Spans: Near 0 Far

8 - Wood or Timber

108A Wearing Surface: 9 - Other 108B Membrane: 0 - None

108C Deck Protection: 0 - None

GEOMETRIC DATA 37 ft

48 Length Max Span: 58 ft 49 Structure Length: 34 Skew: Deck Area: 1276.0 sq. ft.

50B Curb/Sdwk Width R: Oft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 22.0 ft 22.0 ft. 52 Width Out to Out: 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: 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:

38 Navigation Control:

39 Vertical Clearance: 00'00" 40 Horiz. Clearance:

16 Latitude: 42.12542981 17 Longitude: -95.59410881

FRA No. (if RR Bridge):

Mile Post:

90 Inspection Date: 04/26/2014 Inspection Type: N/A 04/26/2016 Next Routine Insp Date: 91 Frequency: Next Insp Type: Regular

Inspection Agency: 5 - Consultant Inspection Group: Crawford County

INSPECTION

93A FC Inspection Date:

92A FC Frequency: Next FC Insp.: NA

93B UW Inspection Date:

92B UW Frequency: Next UW Insp.: NA

93C SI Date:

0

92C SI Frequency: Next Spec. Insp.:

Other Non-NBI Date:

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

CONDITION

58 Deck: 6 - Satisfactory Condition (minor deterioration) 59 Super: 6 - Satisfactory Condition (minor deterioration) 5 - Fair Condition (minor section loss) 61 Channel/Channel Prot.: 6 - Bank slump. widespread minor damage

62 Culvert N - Not Applicable

APPRAISAL

67 Str. Evaluation: 4 - Meets minimum tolerable limits

68 Deck Geometry: 5 - Somewhat better than minimum adequacy

69 Underclear Vert & Horiz: N - Not applicable

71 Waterway Adequacy: 5 - Occasional Flooding - Significant Delays 72 Approach Alignment: 7 - Better than 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: 3 - Scour Critical - Unstable

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:

65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

66 Inventory Rating:

1 - 30.0-39.9% below legal loads 70 Postina:

41 Posting Status: P - Posted for Load

AGE AND SERVICE

0

1900 27 Year Built: Design No.:

106 Year Reconstructed: 1977 42A Type of Service on: 1 - Highway 42B Type of Service Under: 5 - Waterway

28A Lanes on: 2 28B Lanes under: 29 ADT: 30 Year of ADT: 2012 109 Truck ADT: 0 % Speed Limit: 55

19 Detour Length: 4 mi

CLASSIFICATION

112 NBIS Length:

22 Owner:

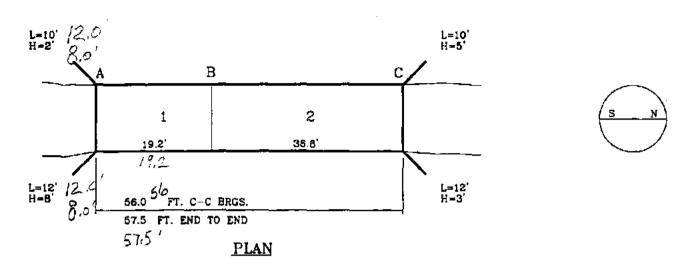
26 Functional Class: 09 - Rural - Local 100 STRAHNET: 0 - Not a defense highway 101 Parallel Structure: N - No parallel structure

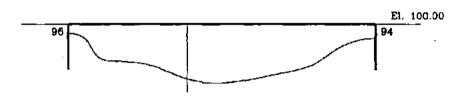
102 Direction of Traffic: 2 - 2-way traffic

02 - County Highway Agency 21 Custodian: 02 - County Highway Agency

37 Historical Significance: 3 - May be eligible for National Register 75A Type of Work Proposed: 31 - Replacement - Load/Geometry 75B Work Done by: 2 - Work to be done by owner's forces

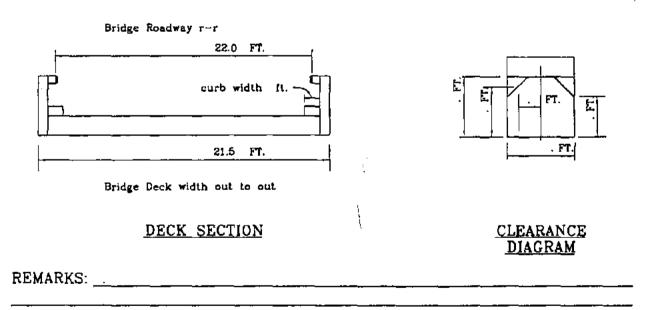
BRIDGE PLAN AND PROFILE





STREAMBED	
ELEVATION	DATE
82.0	4/10
81.5	4/06
82.0	4/08
81.5	4/04
B2.0	1/02
82.0	3/00
82.0	6/99
83.4	12/96

PROFILE



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BRIDGE DECK DETAILS

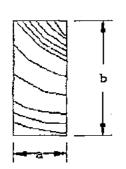
Top of deck

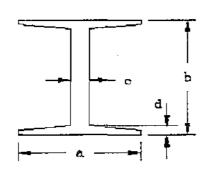
DECK	<u>-</u>		op 01 40011		
		Wearing		Condition	<u>Remarks</u>
<u>Span</u>	Pontis No. Element	<u>Surface</u>	<u>Size</u>	<u>State</u>	
1	141 timber deck	1" dirt	$\frac{1\frac{1}{2}(3x12)(4x16)}{2}$		fair condition
2	141 timber deck	<u>1" dirt</u>	$1\frac{1}{2}(3x12)(4x16)$	2	fair condition
			· · · · · · · · · · · · · · · · · · ·		
<u> </u>	······				
					
BRID	GERAILING motal 572	owi5 DL Total Condition	1		
Span	Pontis No. Element	<u>Length</u> State	<u>Remarks</u>		
1	383 timber bridge rail 20	38.5' 40,2 3	poor condition	n, decaved.	broken missing at east side
2	385 painted steel rail 40,2	+73.5' = 1/3.7 - 2	fair condition.	<u>, moderate r</u>	rust
				· - ···	
DECK	JSLAB JOINTS				
DECK	JOLAD JOINTS	Condit	ion Opening		•
Loc.	Pontis No. Element	Length State		Remar	·ks
			77.32.1.		
				·	
ADDI'	TIONAL DECK/SLAB E				
Elemer		Condition Stat	e <u>Remarks</u>		
	ottom of deck/slab or box			_	<u>-</u>
	oproach slab				
	eck/slab cracking		- 1		
Drains					
	DELCADIZO : .1 .	.1			
	REMARKS: paint hand	<u>raii</u>			
		<u></u>	-		
				<u> </u>	
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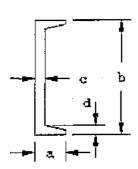
SUPERSTRUCTURE DETAILS (STEEL OR TIMBER BEAM)

DIMENSIONAL DATA

Span	Length	5 Element Type	5 2 7"	15°	c	<u>d</u>	Steel o	No. Lateral beams Spacing Support 30" 3/
L Rema	<u> </u>	idge at ½ point a	nd end	<u>-</u> 10 S			<u> </u>	(9) 30" 51
1101110		tage at 72 point a	<u> </u>	<u></u>			Steel	No. Lateral
Span	Length	Element Type	a	<u> b </u>	c	d_	beam size	beams Spacing Support
<u>2</u>	<u>36.8' </u>	B	<u>7" </u>	<u>16"</u>		<u>7/16"</u>	16 x 36#	9 30"
Rema	rks: <u>di</u>	aphragms at 1/3	points a	and end			·	<u></u> ·
_							Steel	
<u>Span</u>	Length	Element Type	<u>a</u>	<u>_ в</u> .	<u>c</u>	_ <u>_d_</u>	<u>beam size</u>	beams Spacing Support
— Rema	 rks:					-		
							Steel	No. Lateral
<u>Span</u>	<u>Length</u>	Element Type	a	<u>b</u>	<u> </u>	<u> </u>	beam size	beams Spacing Support
Rema	 rks:		· 			-		
							Steel	No. Lateral
<u>Span</u>	<u>Length</u>	Element Type	<u>a</u>	<u> </u>	c	<u>d</u>	<u>beam size</u>	beams Spacing Support
— Rema	 rks:			-	<u> </u>			
				·			Steel	No. Lateral
<u>Span</u>	<u>Length</u>	Element Type	<u>a_</u>	<u> </u>	с	d	beam size	beams Spacing Support
Rema	rks:						<u> </u>	
G	т . 41	F1 4 Tv = -		,		.1	Steel	
<u>Span</u>	Length	Element Type	<u>a</u>	_ <u>b</u>	. с	_ <u>a</u>	<u>beam size</u>	beams Spacing Support
Rema	rks:						***************************************	







Type AT (Treated)
Type AUT (Untreated)

Type B

Type C

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SUBSTRUCTURE DETAILS

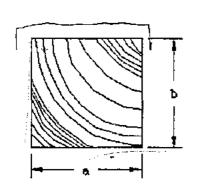
REINFORC	ED CONC	RETE ABUT	MENTS A				VALLS
					Condition		
Pontis No./El	ement	Location	Length	<u>Height</u>	<u>State</u>	<u>Remarks</u>	•
						 _	·
	·						
							
TIMBED (OT	TERRI ADER	PREDICTO 137	NIZUSTI AT T	CANDDA	ZTZXI A I		
IIMBERSI	LEL ADU	<u>rments, wi</u>	NGWALL		Condition		
Pontis No./Ele	ement	Location	Length	Height,	State State	Remarks	
312 timber ba			21.5	7.0° 8	1	3x12 good	condition
312 timber ba		C	21.5'	3.0'	2	3x12 fair o	
313 timber wi			022.0'	5.0° 8′	2	3x12 fair o	
313 timber wi		C .	22.0'	4.0'	2	3x12 fair c	
						<u> </u>	
PIER/PILE (<u>CAPS</u>						
			_			Condition	
Pontis No./Els		Location	<u>Type</u>	Length	Height	<u></u>	Remarks
308 timber tre			<u>A</u>	21.5°23.5		$\frac{2}{2}$	fair condition
244 red lead s			<u>B</u>	<u>21.5'</u>	0.8'	<u> 2</u>	fair cond., moderate rust
238 red lead s	teel abut, ca	<u> p C </u>	<u> </u>	<u>21.5'</u>	0.7'	2	fair cond., moderate rust
	······································						
	<u> </u>						
PIER/ABUT	MENT - PI	LE/BENT					
			114 /30	c Cond	lition		
Pontis No./Ele	ement	Location To	tal Length	St	ate	Remarks	
327 timber tre	stle pile	A (6)	@ 20.0 = 1:	20.0'	2 1	12"Ø, fair con	dition, splits, weathered
			<u> </u>		<u>r</u>	nonitor #1 for	checking/decay at top
327 timber tre	stle pile	B6($a_0 20.0 = 12$	20.0'	2 1	12"Ø, fair con	dition, splits, weathered
327 timber tre		C 6 ($\hat{a}_{1} = 16.0 = 96$	6.0'	1 1	2"Ø, good co	ondition, splits, weathered
						<u>-</u>	-
				<u></u> <u></u>			
						· · · ·	
				•			
SUBSTRUCT							
Pontis No.	Description	_		Yes		Remarks	
405	Structure I	•		<u> </u>	<u>X</u>		
412		Movement (D	egradation	$\begin{array}{c} \overline{X} \\ \overline{X} \\ \overline{X} \end{array}$		ninor	
413 414	Streambed			<u> </u>		noderate	
414	Abutment Settlement					noderate at "A	1
417	Bethement	· ·			<u>X</u> _		

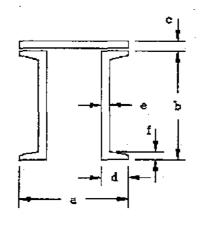
SUBSTRUCTURE DETAILS

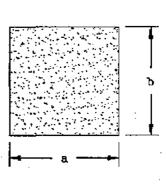
PIER/PILE	CAP DIMENSI	ONAL DATA

Location A B C	TvpeABB	12" 13" 2* 12"	b 12" 10',2 8"	5/16" 5/16"	1 2 3/4" 2 1/4"	e 1/4" 1/4"	<u>9/16"</u> 1/2"
			· · · · · ·	· · · · · · · · · · · · · · · · · · ·			. ———
	·				 .		

REMARKS: "A" cap type A with channel on top







Type A

Type B

Type C