

Structure Inventory and Appraisal

Bridge ID: CHARTER OAK-129670 Official SR: 35.0 SD/FO: Structurally Deficient FHWA No.: 129670 Unofficial SR: 35.0 SD/FO: Structurally Deficient

IDENTIFICATION LOCAL

7 Facility Carried: 5B Rte. Signing Prefix: 4

1 - MAINLINE 5C Level of Service:

5D Inventory Route: 00000 City: RURAL

3 County: 024 - Crawford 084411701 9 Location:

0 - NOT APPLICABLE 5E Directional Suffix: MIDDLE SOLDIER RIVER 6 Feature Intersected:

2 District: Garage: 000 98 Border Bridge Code: % Responsibility:

99 Border Bridge No.:

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel 43B Main Span Design: 10 - Truss Thru

45 No. Spans Main Unit: 1

44A Appr. Span 003 - Steel

44B Appr. Span Design: 002 - Stringer/Multi-beam or Girder

Far 46 No. of Appr. Spans: Near

107 Deck Type: 8 - Wood or Timber 108A Wearing Surface: 7 - Wood or Timber

108B Membrane: 0 - None 108C Deck Protection: 0 - None

GEOMETRIC DATA

2851.2 sq. ft.

28 ft

48 Length Max Span: 60 ft 132 ft 49 Structure Length: 34 Skew:

50B Curb/Sdwk Width R: Oft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 21.0 ft. 21.6 ft. 52 Width Out to Out:

(w/ Shoulders)

32 Appr. Roadway width:

Deck Area:

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

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: 42.09532444 17 Longitude: -95.63640894

FRA No. (if RR Bridge):

Mile Post:

INSPECTION 90 Inspection Date: 05/08/2014

5 - Consultant

Inspection Type: N/A 05/08/2016 Next Routine Insp Date: 91 Frequency:

> Next Insp Type: Regular Inspection Group:

Calhoun-Burns & Associates, Inc.

Inspection Agency: 93A FC Inspection Date: 06/10/2014

92A FC Frequency: Next FC Insp.: 06/10/2016

93B UW Inspection Date:

92B UW Frequency: Next UW Insp.: NA

93C SI Date:

92C SI Frequency: Next Spec. Insp.: NΑ

Other Non-NBI Date:

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

CONDITION

5 - Fair Condition (minor section loss) 58 Deck: 59 Super: 5 - Fair Condition (minor section loss) 4 - Poor Condition (advanced deterioration) 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: 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: 7 - Fixed - Not Scour Critical

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

1949 27 Year Built: Design No.:

106 Year Reconstructed: 1978 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: 20 % Speed Limit: 55

19 Detour Length: 4 mi

CLASSIFICATION

112 NBIS Length:

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: 3 - May be eligible for National Register 75A Type of Work Proposed: 31 - Replacement - Load/Geometry 75B Work Done by: 1 - Work to be done by contract

Standard Series: W (W1 thru W5)

Date Issued: 1924 (Including 1925, 1928, and 1931 revisions.)

Standard No.				Legal Load Capacity, Tons (1)			
	Span Length	Rating (I) (HS)		Truck Type			
		Inv.	Oper.	4	3S3	3-3	
. W1	50	15.6	22.8	L	L	L	
> W2	60	16.3	24.9	L	L	L←	
·W3	70	16.9	25.2	\mathcal{L}	L	L	
W4	80	17.0	25.4	L	L	L	
W5	90	16.3	24.4	L	L	L	

⁽¹⁾ Does not include any allowance for added wearing surface. (L = Legal)

CHARTER OAK 18 BRIDGE APPEARS SIMILAR TO W2 STANDARD, BUT WITH A TIMBER DECK. DUE TO REDUCTION IN D.L. (FOR USING TIMBER INSTEAD OF CONCRETE DECK), TRUSS RATTING WILL BE HIGHER THAN FOR STANDARD (LEGAL).

CHECK DECK RATING SEE ATTACHED SHEETS.

BRIDGE IS A MODIFIED W2 FONY TRUSS WITH STEEL STRINGER APPROACH SPANS.

SEE ATTACHED	RAMNGS	·	NV			OPER	-	
	. 4	353A	<u> 3-3</u>	H820	_ 4	AEZE	3-3	HS20
W. APPR.								<u> </u>
STRINGER	17	28	31	21	25	39	44	29
DECK	-	-	_	- -	L	L	<u>L</u>	
TRUSS								
TRUSS			-	717	Ĺ	<u>L</u>	L	725
DECK	16"	24*	23*	717 13*	20*	27 *	28*	725 15 *
E, APPIZ.								
STRINGER	21	32	37	25	29	45	52	36
beck.	25	36	35	19	30	44	42	23

* CONTROLS

NEFNN	BEARING	BLOCKS	ARE	SEVE	ZELY	ROTTEN	
<u> </u> 	. Post	1 410	,522	,628	Au	VEHICLE	\$". 1
	AND	JSE:					
			4		ASS&	3-3	HS20
	ĊÝ	PER.	10		22	28	15
\$	i	NV	8		17	23	13