

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Inspection Report for B-03-025

USH 53 NB over KNAPP ST Jun 09,2017



Туре	P	rior	Frequency (mos)	Performed
Routine	06-1	6-15	24	Х
SIA Review	06-1	8-13	48	Х

Latitude 45°18'51.80"N Longitude 91°40'35.56"W

Owner STATE HIGHWAY DEPT Maintainer STATE HIGHWAY DEPT

	Time Log		Team membe	rs	
	Hours 1	Minutes 0	wjk		
	Name		Number	Signature	Date
Inspector	Kovaleski, Willia	m J	8007	W/III/am / Lovaleski E-signed by Bill(dotwjk)	09-08-17

page 2 **Identification & Location** Section Town Range: Feature On: Structure Number: USH 53 NB S25 T33N R11W **B-03-025** Feature Under: County: **KNAPP ST** BARRON Location Municipality Structure Name: 1.3M N JCT CTH I TO E PRAÍRIÉ LAKE Traffic Geometry measurements in feet, except where noted Lanes ADT ADT year Traffic Pattern Approach Roadway Width: Bridge Roadway Width: Total Length: 40 On 2 5500 2014 ONE WAY TRAFFIC 40.0 150.7 Approach Pavement Width: 24 Deck Width: Deck Area (sq ft): Under 2 43.8 6600 2500 2008 TWO WAY TRAFFIC Load Rating Capacity Inventory rating: Overburden depth (in): Last rating date: Controlling HS15 08-15-13 3.0 INTERIOR DECK GIRDER Negative Moment Deck surface material Operating rating: Re-rate for capacity (Y/N): Control location: HS23 INTEGRAL CONCRETE SPAN 1 Posting: Re-rate notes: Classification **Hydraulic** Scour Critical Code(113): Q100 (ft3/sec): (N) NO WATERWÁY 0 High water elevation (ft): Velocity (ft/sec): Sufficiency #: 0.0 0.0 92.2 Span(s) Span # Material Configuration Depth (in) Length (ft) CONT PREST CONC DECK GIRDER 45 39.5 1 CONT PREST CONC DECK GIRDER 45 64.0 2 3 CONT PREST CONC DECK GIRDER 43.0 45 Expansion joint(s) Temperature: File: New: Clearance File Measurement (ft) File Date Item New Measurement (ft) Highway Min Vertical Under Cardinal 15.5 Highway Min Vertical Under Non-Cardinal Horizontal Under Cardinal 50.5 Horizontal Under Non-Cardinal Highway Min Vertical On Cardinal Horizontal On Cardinal **Special Components** Component Year Work Performed Note DEĊK - IOWA MIX **OVERLAY - CONCRETE** 1994 **Construction History** Year Work Performed FOS id **OVERLAY - CONCRETE** 1994 1190-20-60

NEW STRUCTURE

Main

1196-04-72

1972

page 3

Structure No.: B-03-025

Maintenance Items History Recommended by Kurtz, William G (8008) Status REJECTED Status change 09/08/17 Year completed Item Misc - Wash Bridge Substructure - Repair Abutment / Wings Harrington, Daniel J (8004) REJECTED 03/02/15 Repair top of backwall at deck 16 SF

Mai	inter	nance	Items
-----	-------	-------	-------

Item	Priority	Recommended by	Status	Status change
Approach - Other Work	HIGH	Kurtz, William G (8008)	IDENTIFIED	06/18/15
Repair the APPR Drainage inlet.				
Substructure - Other Work	MEDIUM	Kurtz, William G (8008)	IDENTIFIED	06/18/15
Seal concrete columns.				
Misc - Cut Brush	LOW	Kurtz, William G (8008)	IDENTIFIED	06/18/15
Remove vegetation from structure.				

Elements

							Quantity in Co	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
v	40		Reinforced Concrete Deck	SF	6,601	6,552	49	0	0
Х	12								
			Cracking (RC)	SF		6,552	49	0	0
		1130	Few hrline transverse cracks w lt eff.						
			Concrete Overlay	SF	6,601	0	6,601	0	0
	8514		Random cracking small spall right lane span 3. m	ap crack	ing though	out deck			
			Debonding/Spall/Patched Area/Pothole	SF		0	167	0	0
		3210	SPL CS2 35SF DELAM 132SF. Asphalt filled	at joints	•				
			Crack (Wearing Surface)	SF		0	6,434	0	0
		3220	Fine map cracking throughout - all w/ 50% CS	3					
			Prestressed Concrete Open Girder	LF	600	598	2	0	0
Х	109								
			Delamination - Spall - Patched Area	LF		0	2	0	0
		1080	Impact Damage SPL CS2 1LF.						
			Reinforced Concrete Column	EA	6	6	0	0	0
Х	205								
			Reinforced Concrete Abutment	LF	97	81	12	4	0
х	215		Crack vertical below G #1& #2 bearing N abut. se	tlement	in front 1'+	Rust stain	ed but dry.	S abut stai	ned but
			dry 2011. 2013 backwall N abut needs repair to op	16 SF. I	N&S ABUT	have stair	ling, but are	e ary.	
			Delamination - Spall - Patched Area	LF		0	0	4	0
		1080	S ABUT G1 SPL CS3 1LF G2 SPL CS3 1LF G	4 SPL C	S3 1LF E	SPL CS3	1LF.		
			Cracking (RC)	LF		0	12	0	0
		1130	6/16/2015 S ABUT CRK CS2 4LF. 6/16/2015 N ABUT CRK CS2 8LF.						
			6/16/2015 N ABUT CRK CS2 8LF.						

age	4							Structure No.:	B-03-0
			Reinforced Concrete Cap	LF	91	91	0	0	0
X	234			•			•		
			Pourable Joint Seal	LF	49	39	0	10	0
X	301		south joint needs to be repoured. 2011 south join	t needs ?	10 LF re-po	our.	1		
_			Leakage, Seal Adhesion, Damage,Cracking	LF		0	0	10	0
		2310	10ft of north end asphalt filled - where spalled	header	block.		1		
			Open Expansion Joint	LF	49	49	0	0	0
×	304								
			Elastomeric Bearing	EA	4	4	0	0	0
X	310			-					
			Moveable Bearing	EA	8	0	8	0	0
×	311		some rust forming						
			Corrosion	EA		0	8	0	0
		1000	Freckle rust starting to form.					•	
			Reinforced Concrete Bridge Rail	LF	298	0	148	150	0
<	331		Minor cracks and spalls east parapet crack horizo	ontal full	length of sp	oan 1, 6 in	ches from to	op	
-			Cracking (RC)	LF		0	148	150	0
		1130	Horiz cracking begin delam - approx. 50 to 80	%. Appr	ox 50% CS	3	1		
			Integral Wingwall	EA	4	0	4	0	0
×	8400		Straight and Plumb						
			Wall Movement	EA		0	3	0	0
		8902	SE 0" out 1/4" down.SW 0" out 1/4" down.NW	0" out 1	/4" down.				
F			Wall Deterioration	EA		0	1	0	0
		8903	Spalling NE				•		

Assessments

							Quantity in Co	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
х	9001		Drainage - Approach	EA	4	4	0	0	0
Х	9030		Signs - Object Markers	EA	2	2	0	0	0
Х	9043		Slope Protection- Crushed Aggregate with Bit. N needs to have vegetation removed.	EA	2	1	1	0	0
Х	9168		Concrete Diaphragm 1 spall bay 1 S abut backwall.	EA	15	14	1	0	0
х	9322		Approach Roadway - Concrete (non-structural) Cracking, settlement and edge cracking - asp f		2 joint.	0	1	1	0

NBI Ratings

	File	New
Deck	6	6
Superstructure		7
Substructure	7	7
Culvert	Ν	N
Channel	Ν	N
Waterway	Ν	N

page 5

Structure No.: B-03-025

 Structure Specific Notes

 OLD: Random map cracking throughout, cracked approach slab. ***1/15/97*** Overall cond of structure is very good. Reinforced concr columns, caps, north abut. ps girders, deck are all very good. Southeast abutment corner (8LF) has 8 verical cracks. 250 LF of 358 crack. No maintenence request itmes at this time. Delam 0.98%- 1996.

 (99)structure in very good shape. Cleaning out drain seem to have cured water problem at SE corner of S abutment.

 (01) Structure is in very good condition. South abut. slope failure SE corner below water problem on s abut. Water damage to SE corner og Abut. from freze /thaw on wet corner. Washout on NE corner of N abut. not serious but needs to be repaired. Settlement at both abutments, and loose slope paving.

Inspection Specific Notes

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures Walk-thru

Special Requirements

Chk Hours

Cost Comments

Routine Document Comment/Description East parapet - horiz cracking



page 7

Routine Document Comment/Description



page 8



page 9

Routine Document Comment/Description



Routine Document Comment/Description

STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-03-025 USH 53 NB over KNAPP ST

(3) Municipality: (16) Latitiude(° ' "): (17) Longitude(° ' "):

	LOCATION	
PRAIRIE LAKE		
45°18'51.80"N		
91°40'35.56"W		

TRAFFIC SERVICE

2

2
-NO TRAFFIC X-ONE WAY TRAFFIC -TWO WAY TRAFFIC
-NO TRAFFIC -ONE WAY TRAFFIC X-TWO WAY TRAFFIC
1

GEOMETRY

Left: 0.0	Right: 0.0
3.8	
Angle(°): 34	Direction: -right forward X-left forward
Cardinal	Non-Cardinal
40.0	40.0
43.8	43.8
40	0
Cardinal Under Clearance	Non-Cardinal Under Clearance
50.5	
14.3	
14.2	

RAILING APPRAISAL

		RAILING APPRAISAL
-SUB-S	STANDAR	D X-STANDARD -NOT APPLICABLE
-SUB-S	STANDAR	D X-STANDARD -NOT APPLICABLE
-SUB-S	STANDAR	D X-STANDARD -NOT APPLICABLE
-SUB-S	STANDAR	D X-STANDARD -NOT APPLICABLE
_eft	Right	Туре
		TYPE F (TWO SQUARE TUBES) - STEEL(8)
		TYPE F (3 SQUARE TUBES) - STEEL(65)
		TYPE F (4 SQUARE TUBES) - STEEL(72)
		TYPE M-STEEL 3 SQUARE TUBES(93)
Х	X	SLOPED FACE PARAPET LF(91)
		SLOPED FACE PARAPET HF(92)
		VERTICAL FACE PARAPET TYPE A(74)
		TYPE W-THRIE BEAM(79)
		TYPE H ON VERTICAL PARAPET(80)
		TIMBER(38)
		OTHER(99) (Please specify)
		UARD RAIL
		GRDRL
		ACHMENT
5		7/8") BOLT (Please enter quantity)
	`	1") BOLT (Please enter quantity)
	OTHER	(Please specify)
Х	(01) ENE	ERGY ABSORBING TERMINAL/EAT
	(02) TUP	RN DOWN
	(99) OTH	HER (Please specify)

ROADWAY ALIGNMENT APPRAISAL

	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
Х	8 Good- No speed reduction

(28A) Lanes On:
(28B) Lanes Under:
(102) Traffic Pattern On:
(102) Traffic Pattern Under:
(19) Detour Length(mi):

(49) Structure Length(ft):
(50) Sidewalk Width(ft):
(50) Curb Width(ft):
(52) Culvert Barrel Length(ft):
(34) Skew:
(51) Bridge Roadway Width(ft):
(52) Deck Width(ft):

Right Wingwall Length(ft): Left Wingwall Length(ft): (32) Approach Roadway Width(ft):

(47) Minimum Horizontal(ft):(55) Minimum Right Lateral(ft):(56) Minimum Left Lateral(ft):

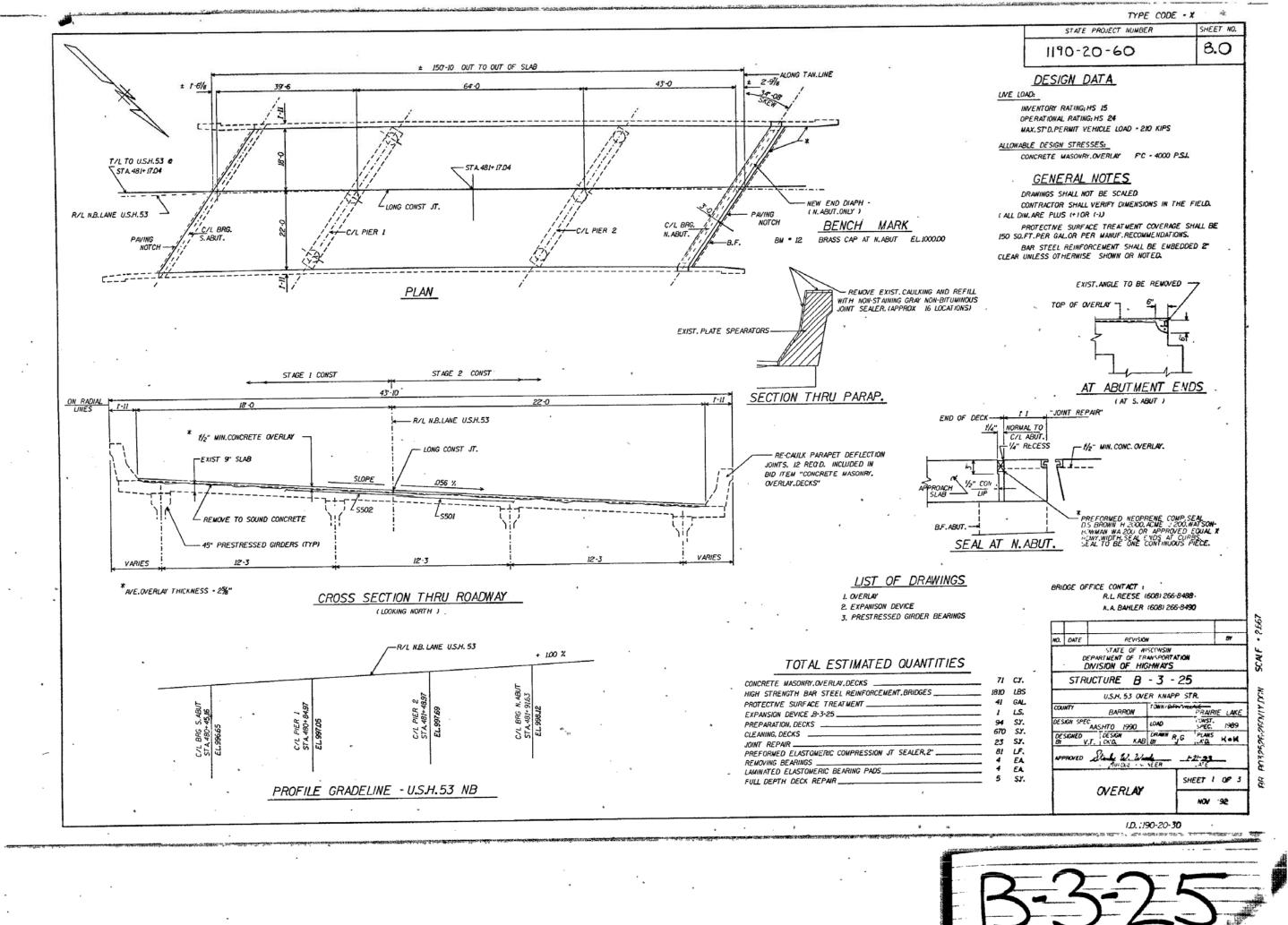
(36A) Bridge Rail Adequacy: (36B) Transition Adequacy: (36C) Approach Guardrail Adequacy: (36D) Guardrail Termination Adequacy: Outer Rail:

Transition Type:

Approach Attachment Rail Note: Guardrail Termination Type:

Guardrail Termination Note:

(72) Approach Alignment Appraisal:



. ..

