

Hennepin County Transportation Department

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January 14, 2013

Structures Supervisor Burlington Northern & Santa Fe RR 80 - 44th Avenue N.E. Minneapolis, MN 55421

2012 BRIDGE INSPECTION REPORTS AND STRUCTURE INVENTORIES

The 2012 BRIDGE INSPECTION REPORTS and Structure Inventories for bridges under your jurisdiction are enclosed. The reports and inventories have been submitted to the Minnesota Department of Transportation, Bridge Data Section, Oakdale, Minnesota, as required by Minnesota Statute 165.03.

Enclosed bridge number(s):

90434

90602

90625

90655

If you have any questions regarding the above, please call me at (612) 596-0364.

Sincerely,

Bernard J. Jahn, P.E.

Bridge Engineer

Enclosure(s)

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MnDOT Structure Inventory Report

Bridge ID: 90625 over CSAH 153(LOWRY AVE NE) Date: 11/05/2012 **BNSF RR** ROADWAY INSPECTION **GENERAL** Userkey Bridge Match ID (TIS) Agency Br. No. 708 District Metro Roadway O/U Key Unofficial Structurally Deficient Y Maint. Area Crew **Unofficial Functionally Obsolete Route Sys** Number County 027 - Hennepin **Roadway Name or Description Unofficial Sufficiency Rating** -1 Minneapolis **Routine Inspection Date** 05/21/2012 City Township Routine Inspection Frequency Level of Service Desc. Loc. 0.3 MI E OF JCT TH 47 Inspector Name County, Hennepin Roadway Type - 029N - 24W Sect., Twp., Range 11 Status A - Open **Control Section (TH Only)** Sec 47.36 Latitude Deg 45 Min 0 **Reference Point NBI CONDITION RATINGS** Sec 29.77 Longitude Deg 93 Min 15 Deck 5 - Fair Condition **Detour Length** mi Custodian 27 - Railroad **Unsound Deck %** Lanes On Under 4 Owner 27 - Railroad Superstructure 5 - Fair Condition ADT Year **BMU Agreement** Substructure 3 - Serious Condition **HCADT** 0 ADTT 0 % Year.Built 1931 Channel N - Not Applicable **Functional Class** MN Year Reconstructed Culvert N - Not Applicable RDWY DIMENSIONS **FHWA Year Reconstructed NBI APPRAISAL RATINGS** SB-WB NB-EB If Divided **MN Temporary Status** Structure Evaluation 4 Roadway Width ft. ft. Bridge Plan Location 4 - MUNICIPAL **Deck Geometry Vertical Clearance** ft. **Date Opened to Traffic** Underclearances Max. Vert. Clear. ft. **On-Off System** 0 - OFF Water Adequacy N - Not Applicable Horizontal Clear. ft. Legislative District 59A Approach Alignment N - Not Applicable Lateral Clearance ft. **STRUCTURE SAFETY FEATURES** Appr. Surface Width ft. Service On 2 - Railroad **Bridge Railing** N - NOT REQUIRED **Bridge Roadway Width** ft Service Under 1 - Highway, w/ or w/out ped. **GR Transition** N - NOT REQUIRED Median Width On Bridge ft. Main Span Type Appr. Guardrail N - NOT REQUIRED MISC. BRIDGE DATA 3 - Steel 01 - Beam Span **GR Termini** N - NOT REQUIRED Structure Flared 0 - No flare Main Span Detail IN DEPTH INSP. Parallel Structure N - No parallel structure Appr. Span Type Y/N Date Freq Field Conn. ID 09 - Slab Span 1 - Concrete Frac. Critical **Abutment Foundation 1 - CONC** Appr. Span Detail Underwater Skew 25 R (Material/Type) 0 - UNKNOWN Pinned Asblv. **Culvert Type** 1 - CONC Pier Foundation Spec. Feat. **Barrel Length** ft. (Material/Type) 0 - UNKNOWN WATERWAY Cantilever ID **Historic Status** 5 - Not eligible Drainage Area (sq. mi.) NUMBER OF SPANS **Waterway Opening** sa. ft. **PAINT** MAIN: 2 APPR: 2 Navigation Control N - Not applicable, no waterw TOTAL: 4 Year Painted 1931 **Pier Protection** Main Span Length 26.5 ft. **Unsound Paint %** ft. Horiz. Nav. Cir. (ft.) Vert. Structure Length 78.0 ft. Painted Area 20000 sq. ft. Nav. Vert. Lift Bridge Clear. (ft.) Deck Width (Out-to-Out) 86.1 Primer Type 1 - Lead - non 3309 MN Scour Code A - NON WATER' Year 1991 Deck Material 1 - Concrete Cast-in-Place Finish Type D - Alkyd Iron Oxide **CAPACITY RATINGS** Wear Surf Type N - Not Applicable (applies onl Wear Surf Install Year Design Load 8 - RAILROAD **BRIDGE SIGNS** Wear Course/Fill Depth 0.00 Operating Rating 2 - AS HS 65.0 Posted Load 0 - Not Required Deck Membrane 0 - None Inventory Rating 2 - AS HS 65.0 Traffic 0 - Not Required N - Not Applicable (no deck) **Deck Rebars** Posting VEH: SEMI: DBL: Horizontal 1 - Object Markers **Deck Rebars Install Year Rating Date** Structure Area (Out-to-Out) sq. ft. Vertical 1 - Rdwy. Clr. Restriction **MnDOT Permit Codes** Roadway Area (Curb-to-Curb) 6717 sq. ft. A: N-N/A Sidewalk Width Lt 0.00 ft. Rt 0.00 ff B: N - N/A **Curb Height** Lt 0.00 ft. Rt 0.00 ft. C: N - N/A

Lt NN

Rall Type

Rt NN

MnDOT Structure Inventory Report

Additional Roadways

Bridge ID: 90625 BNSF RR over CSAH 153(LOWRY AVE NE) **Date**: 11/05/2012

ROADWAY									
Bridge Match ID (TIS): 0									
5A. Roadway On/Under:	-	PRECOR	D 2 TYPE (IF ONLY 1						
Bridge Route System:		NTY HIGH	,						
5D. Route Number:	153	VIII IIIOI	VVAI						
Roadway Name or Description									
CSAH 153(LOWRY AVE NE)									
5C. Level of Service:	1 - MAIN	LINE							
102. Direction of Traffic:	2 - 2-way								
Control Section (TH Only):	27	••••••							
Reference Point:	-								
19. Detour Length (mi):	0.0								
Lanes:	4								
29. ADT:	13924								
30. Year:	2008								
26. Functional Class:	16								
Traffic Sequence Number:	61979								
InterRegional Corridor (TH O	nly):								
ROA	DWAY DI	IMENSION	IS						
		NB-EB	\$B-WB						
Roadway Width (ft):		19.50	19.70						
Vertical Clearance (ft):		13.8	14						
Max. Vert. Clear. (ft):		13.8	14						
Horizontal Clear. (ft):		19.4	19.6						
		Left	Right						
Lateral Clearance (ft):		0.4	0.4						
32. Appr. Roadway Width	44.0								
51. Brdg Roadway Width (ft):	39.2								
Median Width (ft):	3.00								
10. Vertical Clearance (ft):	14								
47. Horizontal Clearance	19.6								

MnDOT BRIDGE INSPECTION REPORT

11/05/2012

Inspector: County, Hennepin

BRIDGE 90625 BNSF RR OVER CSAH 153(LOWRY AVE NE)							ROUTINE INSP. DATE: 05/21/2012								
County	: Hennepin		L	ocation: 0.3 Mi l	OF JCT T	H 47		Length:		78.0 ft.					
City:	Minneapolis		F	Route:	Ref.	Pt.:		Deck Wid	th:	86.1 ft.					
Townsl	hip:		(Control Section:				Rdwy. Are	ea/ Pct. Un	isnd: 6717	sq. ft. / %				
Section: 11 Township: 029N Range: 24W Maint Area:									Paint Area/ Pct. Unsnd: 20000 sq. ft. / %						
Span T	ype: 3 - Steel 02 -	- Stringer/Multi-b	eam or	Local Agency Brid	dge Nbr.: 70	380		Culvert: N/A							
List: Girder									Postings:						
NBI De	ck: 5 Super:	: 5 Sub: 3	Chan:	N Culv: N											
				Open, Pos	sted, Closed	d: A -	- Open								
					Code: A -	NON '	WATERWAY								
	sal Ratings - Appro		aterway:	N				Unofficial Structurally Deficient Y							
Require	ed Bridge Signs - I	•	•		·			Unofficial Functionally Obsolete							
		Horizntal: 1	- Object M	larkers	Vertical:		Rdwy. Clr. triction	Un	official Suf	ficiency Ra	iting -	1			
Structi	ure Unit:														
ELEM				_				QTY	QTY	QTY	QTY	QTY			
NBR	ELEMENT	T NAME	ENV	REPORT TYPE	INSP. D	ATE	QUANTITY	CS 1	CS 2	CS 3	CS 4	CS 5			
012	Top of Concrete Overlay - Uncoa		1	Routine	05/21/2	012	5005 SF	0	0	5005	0	0			
	overlay enough	,		Routine	05/02/2	011	5005 SF	0	5005	0	0	0			
		Notes: 12 Con	c snalled v	v/ rebar exp @ W o											
		110103. 12. 0011	o opanea v	- Tobal exp @ 11 e	oping over										
038	Top of Concrete Overlay - Uncoa		1	Routine	05/21/2	012	1701 SF	0	0	1701	0	0			
				Routine	05/02/2	011	1701 SF	0	1701	0	0	0			
		Notes: 38. RR	tracks and	ballast on top of s	lab. Joint @	N and	d S spans mis	aligned ver	tically.						
107	Painted Steel Gi	rder or Beam	4	Routine	05/21/2	O12	2221 LF	0	0	2221	0	0			
101	· amica otool o.	radi di Baam	4	Routine	05/02/2		2221 LF	0	0	2221	0	0			
		Notes: 107. Str dents from traffi	ingers hit a	and scraped many				_	=		=	_			
110	Reinforced Cond		4	Routine	05/21/2	012	157 LF	0	150	0	7	N/A			
	Beam			Routine	05/02/2	011	157 LF	0	150	7	0	N/A			
		Notes: 110 Co	ne fascia k	neams. W fascia is						beam look	k like a "T"	NF			
		fascia severely	damaged	w/ rebar exp and or	ne rebar she	ared	off. Fascia bea	ms have in	npact dam	age and sp	alls.				
205	Reinforced Cond	crete Column	4	Routine	05/21/2	012	46 EA	0	7	20	19	N/A			
				Routine	05/02/2	011	46 EA	0	7	20	19	N/A			
		columns w/ maj	or loss of s	ns cracked w/ large section. BJJ to requ t @ center columns	est BNSF F	R cor	mplete analysis	s of deterio							
215	Reinforced Cond	crete	4	Routine	05/21/2	012	190 LF	180	10	0	0	N/A			
				Routine	05/02/2	011	190 LF	180	10	0	0	N/A			
				acks. Popouts on fa of N. Fine map crac					ed by seep	age @ join	t. Rust @ o	old form			
234	Reinforced Cond	crete Pier Can	4	Routine	05/21/2	·012	279 LF	259	14	6	0	N/A			
204	. tonilorood Oom	5.010 F 151 Oup	7	Routine	05/02/2		279 LF	259	14	6	0	N/A			
		Noton 224 C	intor and h	Routine							•				
		pier 2 and S sig		r oah sramen mour	caraye ullu	1 UCCA.	, A IGW VOILUE	LONG III SUII	e caps. ve	or ohallo M	r exp lenal	14 9100			

ELEM						QTY	QTY	QTY	QTY	QTY
NBR	ELEMENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	CS 1	CS 2	CS 3	CS 4	CS 5
311	Expansion Bearing	4	Routine	05/21/2012	88 EA	0	88	0	N/A	N/A
			Routine	05/02/2011	88 EA	0	88	0	N/A	N/A
	Notes: 311.1	Rusted.								
313	Fixed Bearing	4	Routine	05/21/2012	88 EA	0	88	0	N/A	N/A
			Routine	05/02/2011	88 EA	0	88	0	N/A	N/A
	Notes: 313. I	Rusted. Pa	ck rust and some adv	anced corrosion	on both sides o	f pier 2.				
331	Reinforced Concrete Bridge Railing	1	Routine	05/21/2012	157 LF	141	9	7	0	N/A
			Routine	05/02/2011	157 LF	141	9	7	0	N/A
	Notes: 331. (rail onto traffi		nered and spalled. W	rail spalled w/ re	bar exp and rus	ted in a fe	w places. E	Ballast rock	s can fall t	hrough E
358	Concrete Deck Cracking Smart Flag	2	Routine	05/21/2012	1 EA	1	0	0	0	N/A
			Routine	05/02/2011	1 EA	1	0	0	0	N/A
	Notes: 358.								***	
359	Underside of Concrete Deck Smart Flag	2	Routine	05/21/2012	1 EA	0	0	1	0	0
			Routine	05/02/2011	1 EA	0	1	0	0	0
			d 3 - Efflor @ stringer eaking and efflor @ co							
	N span.								1110 117 1000	03(p iii
362	N span. Traffic Impact Smart Flag	2	Routine	05/21/2012	1 EA	0	0	1	N/A	N/A
362										
362	Traffic Impact Smart Flag	2	Routine	05/21/2012 05/02/2011	1 EA	0	0	1	N/A	N/A
	Traffic Impact Smart Flag	2 ascia bea	Routine Routine	05/21/2012 05/02/2011	1 EA	0	0	1	N/A	N/A
	Traffic Impact Smart Flag Notes: 963.	2 ascia bea	Routine Routine m and steel girder imp	05/21/2012 05/02/2011 pacts.	1 EA 1 EA	0	0	1	N/A N/A	N/A N/A
	Traffic Impact Smart Flag Notes: 963. Reinforced Concrete Wingwal	2 Fascia bear 4 Valls weath	Routine Routine m and steel girder imp Routine	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011	1 EA 1 EA 4 EA 4 EA	0 0	0 1 4 4	1 0	N/A N/A 0 0	N/A N/A N/A N/A
387	Traffic Impact Smart Flag Notes: 963. Reinforced Concrete Wingwal Notes: 387. and map crac	2 Fascia bear 4 Walls weath	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag	1 EA 1 EA 4 EA 4 EA cracks in NE. N	0 0	0 1 4 4	1 0 0 0 0 NW, SE a	N/A N/A 0 0 0 nd SW. Fin	N/A N/A N/A N/A
387	Traffic Impact Smart Flag Notes: 963. Reinforced Concrete Wingwal Notes: 387.	2 Fascia bear 4 Valls weath	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag	1 EA 1 EA 4 EA 4 EA	0 0 0 0 0 Numerous	0 1 4 4 popouts in	1 0	N/A N/A 0 0	N/A N/A N/A N/A ne horiz
387	Traffic Impact Smart Flag Notes: 963. Reinforced Concrete Wingwal Notes: 387. and map crac	2 Fascia bear 4 Walls weath	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag	1 EA 1 EA 4 EA 4 EA cracks in NE. N	0 0 0 0 0 Numerous	0 1 4 4 popouts in	1 0 0 0 NW, SE a	N/A N/A 0 0 ond SW. Fin	N/A N/A N/A N/A e horiz
387 ————————————————————————————————————	Notes: 963. Reinforced Concrete Wingwal Notes: 387. and map crac Critical Finding Smart Flag Notes: 964.	2 Fascia bear 4 Walls weath ks in NW.	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011	1 EA 1 EA 4 EA 4 EA cracks in NE. N 1 EA 1 EA	0 0 0 0 Numerous 1 1	0 1 4 4 popouts in 0	1 0 0 0 NW, SE a N/A N/A	N/A N/A 0 0 nd SW. Fin N/A N/A	N/A N/A N/A N/A e horiz N/A N/A
387 ————————————————————————————————————	Traffic Impact Smart Flag Notes: 963. I Reinforced Concrete Wingwal Notes: 387. V and map crac Critical Finding Smart Flag	2 Fascia bear 4 Walls weath	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine Routine Routine	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011	1 EA 1 EA 4 EA 4 EA cracks in NE. N 1 EA 1 EA	0 0 0 0 Numerous 1 1	0 1 4 4 popouts in 0 0	1 0 0 0 NW, SE a N/A N/A	N/A N/A 0 0 nd SW. Fin N/A N/A	N/A N/A N/A N/A e horiz N/A N/A
387 964	Notes: 963. Reinforced Concrete Wingwal Notes: 387. and map crac Critical Finding Smart Flag Notes: 964. Signing	2 Fascia bear 4 Walls weath ks in NW. 2	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine Routine Routine	05/21/2012 05/02/2011 0acts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011	1 EA 1 EA 4 EA 4 EA cracks in NE. N 1 EA 1 EA 1 EA	0 0 0 0 Numerous 1 1	0 1 4 4 popouts in 0 0	1 0 0 NW, SE at N/A N/A	N/A N/A 0 0 nd SW. Fin N/A N/A	N/A N/A N/A N/A ne horiz N/A N/A
387 964	Notes: 963. Reinforced Concrete Wingwal Notes: 387.3 and map crac Critical Finding Smart Flag Notes: 964. Signing Notes: 981.1 mounted on a clearance sig E approach,	2 Avails weath this in NW. 2 Horiz clears senter pier. n (13'-6") (none @ W.	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine Routine Routine	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011 05/02/2011 NE and SW corn tenter pier. WB revance vert clear 7-9 AM and 4-6	1 EA 1 EA 4 EA 4 EA 1	0 0 0 0 Numerous 1 1 0 0 ornae reflectance sign of operation de of street	0 1 4 4 popouts in 0 0 0 ctor signs-V n bridge is ns & Minne	1 0 0 0 NW, SE at N/A N/A 1 1 1 VB sign da missing, E eapolis. Na ng betwee	N/A N/A 0 0 nd SW. Fin N/A N/A 0 0 maged. Lig B is damag	N/A N/A N/A N/A N/A N/A O O ghts jed. Vertes sign @
362 387 964 981	Notes: 963. Reinforced Concrete Wingwal Notes: 387.3 and map crac Critical Finding Smart Flag Notes: 964. Signing Notes: 981.1 mounted on a clearance sig E approach, All Keep Righ	2 Valls weath this in NW. 2 Horiz clears tenter pier. in (13'-6") (in one @ W. and horiz tenter pier. in and horiz tenter pier. in (13'-6") (in one @ W. and horiz tenter pier. in and horiz tenter pier. in (13'-6") (in one @ W. and horiz tenter pier. in (13'-6") (in one @ W. and horiz tenter pier. in and horiz tenter pier. in (13'-6") (in one @ W. and horiz tenter pier. in and	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine Routine Routine Ance marker X4-4 @ Directional signs @ cook approaches. No add No parking between clearance signs on a	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011 NE and SW corn tenter pier. WB revance vert clear 7-9 AM and 4-6 pproach column	1 EA 1 EA 4 EA 4 EA 1	0 0 0 0 Numerous 1 1 0 0 ornae reflectance sign of operation de of street	0 1 4 4 popouts in 0 0 0 ctor signs-V n bridge is ns & Minne	1 0 0 0 NW, SE at N/A N/A 1 1 1 VB sign da missing, E eapolis. Na ng betwee	N/A N/A 0 0 nd SW. Fin N/A N/A 0 0 maged. Lig B is damag	N/A N/A N/A N/A N/A N/A O O ghts jed. Vertes sign @
387 ————————————————————————————————————	Notes: 963. Reinforced Concrete Wingwal Notes: 387.3 and map crac Critical Finding Smart Flag Notes: 964. Signing Notes: 981.1 mounted on a clearance sig E approach,	2 Avails weath this in NW. 2 Horiz clears senter pier. n (13'-6") (none @ W.	Routine Routine m and steel girder imp Routine Routine nered. Rust @ old wir Routine Routine Routine Routine Directional signs @ old approaches. No ad No parking between	05/21/2012 05/02/2011 pacts. 05/21/2012 05/02/2011 e form ties. Diag 05/21/2012 05/02/2011 05/02/2011 NE and SW corn tenter pier. WB revance vert clear 7-9 AM and 4-6	1 EA 1 EA 4 EA 4 EA 1	0 0 0 0 Numerous 1 1 0 0 or has reflectance sign of operation of street and have	0 1 4 4 4 popouts in 0 0 0 ctor signs-V n bridge is ns & Minne at. No parki	1 0 0 0 NW, SE at N/A N/A 1 1 1 VB sign da missing, Eapolis. Nang betwee them.	N/A N/A 0 0 nd SW. Fin N/A N/A 0 0 maged. Lig B is damag rrow bridge n 4-6 PM @	N/A N/A N/A N/A N/A N/A O O ghts jed. Vertes sign @ S side.

Inspector's Signature

Reviewer's Signature

Structi	ure Unit:										•
ELEM NBR	ELEMENT	NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY C\$ 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
988	Miscellaneous Ite	ems	2	Routine	05/21/2012	1 EA	1	0	0	N/A	N/A
				Routine	05/02/2011	1 EA	1	0	0	N/A	N/A
		along S pier walkway. Cu	to luminaires rb spalled @	ttached to N abut, pie s. 1" conduit S side p p median and outside gone. Minimal horiz	ier 1. 2 lights @ gutters. S curb l	N walkway, 2 @ nas several area	WB road as of exp r	way, 2 @ E ebar. Curb	EB roadwa @ mediar	y and 2 @ i is badly	S
	General Notes:	NOTES: C	all Pat Grant	SF RR/CSAH 153(Lo for sign issues on br ② WB. Repair agreen	idges in City of N	/linneapolis-offic	e 612-67	3-5757; cel			num
		205. Repai 331. Modify	y E rail to pre vance vertic	s: eteriorated conc colur event ballast from fall al clearance signs-re	ing onto traffic be	elow.			nns - HIGH	PRIORITY	′ .
	58. Deck NBI:										
36A. E	Brdg Railings NBI:										
36B	3. Transitions NBI:										
36C. Ap	opr Guardrail NBI:										
36	D. Appr Guardrail Terminal NBI:										
59. St	perstructure NBI:										
60.	Substructure NBI:										
	61. Channel NBI:										
	62. Culvert NBI:										
71. Wa	terway Adeq NBI:										
7	 Appr Roadway Alignment NBI: 										
	Inventory Notes:										
		Bernard Ja	hn				В	ernard Ja	ahn		