# 2016 ROUTINE BRIDGE INSPECTION REPORT



## BRIDGE # 90409 CSAH 55(JACKSON) over CP RAIL

DISTRICT: Metro COUNTY: Ramsey CITY/TOWNSHIP: St Paul

STATE: Minnesota

Date of Inspection: 08/19/2016

**Equipment Used:** 

**Owner: County Highway Agency** 

Inspected By: Burt, Dick; Engel, Michael; Reimer, Dan

Report Written By: Dan Reimer Report Reviewed By: Glenn Pagel Final Report Date: 11/02/2016



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### **Minnesota Structure Inventory Report**

Bridge ID: 90409 CSAH 55(JACKSON) over CP RAIL Date: 11/01/2016

Agency Br. No. Crew	+ R O A D W A Y +	+INSPECTION+
	Bridge Match ID (TIS) 0	Userkey 199
District 05 Maint. Area	, ,	Structurally Deficient N
County 062 - Ramsey	, , , , ,	Functionally Obsolete Y
•	Route Sys 04 - CSAH Number 55	Sufficiency Rating 30.6
•	Roadway Name or Description CSAH 55	l ' '
Township  Desc. Loc. 0.1 MI N OF JCT CSAH 31	Level of Service 1 - MAINLINE	Routine Inspection Date 08/19/2016 Routine Inspection Frequency 12
Sect., Twp., Range 19 - 029N - 22W  Latitude 44 ° 58 ' 43.36 "	Roadway Type 2 - 2-way traffic	Inspector Name Reimer, Dan  Status P - Posted for Load
	Control Section (TH Only)	Status P - Posted for Load
g	Reference Point 001+00.320  Detour Length 1.0 mi.	+NBI CONDITION RATINGS+
Custodian 02 - County Highway Agency	g	Deck 5 Unsound
Owner 02 - County Highway Agency		Superstructure 5 Deck %
BMU Agreement	7.5.	Substructure 5
Year Built 1959		Channel N
MN Year Reconstructed	Functional Class 16 - Urban - Minor Arterial	Culvert N
FHWA Year Reconstructed		
MN Temporary Status	+RDWY DIMENSIONS+	+NBI APPRAISAL RATINGS+
Bridge Plan Location 4 - MUNICIPAL	If Divided NB-EB SB-WB	Structure Evaluation 3
Date Opened to Traffic	Roadway Width 30.00 ft. ft.	Deck Geometry 3
On - Off System 1 - ON	Vertical Clearance ft. ft.	Underclearances 4
Legislative District 66A	Max. Vert. Clear. ft. ft.	Waterway Adequacy N
Potential ABC 2 - N/A	Horizontal Clear. 29.9 ft. ft.	Approach Alignment 8
+STRUCTURE+	Lateral Clearance ft. ft.	
Service On 5 - Highway-pedestrian	Appr. Surface Width 40.0 ft.	+SAFETY FEATURES+
Service Under 2 - Railroad	Bridge Roadway Width 30.0 ft.	Bridge Railing 0 - SUBSTANDARD
Main Span Type 2 - Concrete Continuous	Median Width On Bridge ft.	GR Transition 0 - SUBSTANDARD
Main Span Design 09 - Slab Span		Appr. Guardrail 0 - SUBSTANDARD
Main Span Detail	+MISC. BRIDGE DATA+	GR Termini 0 - SUBSTANDARD
Appr. Span Type	Structure Flared 0 - No flare	
Appr. Span Design	Parallel Structure N - No parallel structure	+IN DEPTH INSP.+
Appr. Span Detail	Field Conn. ID	Y/N Freq Date
Skew 54 RIGHT	Abutment 1 - CONC	Frac. Critical N
Culvert Type	Foundation (Material/Type) 1 - SPRD SOIL	Underwater N
Barrel Length		Pinned Asbly. N
Cantilever ID	Pier Foundation 1 - CONC (Material/Type)	Spec. Feat.
	1 - SPRD SOIL	
Number of Spans	Historic Status 5 - Not eligible	+WATERWAY+
MAIN: 3 APPR: 0 TOTAL:	Thotono ciatao a trot ong ana	Drainage Area (sq. mi.)
Main Span Length 42.4 ft.	+ P A I N T +	Waterway Opening (sf.)
Structure Length 109.5 ft.		Navigation Control N - Not applicable, no
Deck Width (Out-to-Out) 42.0 ft.	Year Painted	Pier Protection
Deck Material 1 - Concrete Cast-in-Place	Unsound Paint %	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0
Wear Surf Type 1 - Monolithic Concrete	Painted Area sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)
Wear Surf Install Year	Primer Type	MN Scour Code A - NON Year
Wear Course/Fill Depth 0.00 ft.	Finish Type	***************************************
Deck Membrane 0 - None		+CAPACITY RATINGS+
Deck Rebars 0 - None	+BRIDGE SIGNS+	Design Load 4 - H 20
Deck Rebars Install Year		Operating Rating 2 - HS TRUCK 12.2
Z CONTRODUCTOR TOUR	Posted Load 2 - Vehicle & Semi (Type R12-5)	Inventory Rating 2 - HS TRUCK 7.2
Structure Area (Out-to-Out) 4599 sq. ft.		Posting VEH: 18 SEMI: 32 DBL: 32
	Traffic 0 - Not Required	Posting VEH: 18 SEMI: 32 DBL: 32
Structure Area (Out-to-Out) 4599 sq. ft.	Traffic 0 - Not Required  Horizontal 0 - Not Required	Rating Date 10/16/2013
Structure Area (Out-to-Out) 4599 sq. ft. Roadway Area (Curb-to-Curb) 3283 sq. ft.	· '	
Structure Area (Out-to-Out)       4599       sq. ft.         Roadway Area (Curb-to-Curb)       3283       sq. ft.         Sidewalk Width       50A. Lt. 5.00       ft. 50B. Rt. 5.00       ft.	Horizontal 0 - Not Required	Rating Date 10/16/2013

#### MINNESOTA BRIDGE INSPECTION REPORT

11/02/2016

Inspector: CO Bridge

#### BRIDGE 90409 CSAH 55(JACKSON) OVER CP RAIL

	3E 90409 CSAH 55(JACKSON) C		LOF IOT COALL	0.4	1 (1		100 5 4		
County			N OF JCT CSAH		Length:		109.5 ft.		
City:		Route: 04 - CSAH	55 Ket. Pt.: (	01+00.320	Deck Wid		42.0 ft.	ft /0	,
Townsh	•	Control Section:			-		nsnd: 3283	-	o .
Section	1						snd: sq. ft	1. / %	
Span 1 List:	ype: 2 - Concrete Continuous 1 - Slab	Local Agency Brid	dge Nbr.:		Culvert: Postings:	N/A 18	32		32
NBI De	ck: 5 Super: 5 Sub: 5 Char	n: N Culv: N							
	·	Open, Pos	sted, Closed: P	- Posted for Lo	ad				
		· ·	Code: A - NON						
	al Ratings - Approach: 8 Waterway:	N			Un	official Str	ucturally De	eficient	N
Require	ed Bridge Signs - Load Posting: 2 - Vehicle R12-5)	& Semi (Type	Traffic: 0 - I	Not Required	Un	official Fur	nctionally O	bsolete	Υ
	Horizntal: 0 - Not Red	quired '	Vertical: 0 - I	Not Required	Un	official Suf	ficiency Ra	iting	30.6
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
38	Reinforced Concrete Slab	Routine	08/19/2016	4599 SF	4139	0	460	0	
		Migrated Values		4599 SF	4139	0	460	0	
	Notes: Heavy leaching, staining and eff Rust staining is also present. 2016 16 SF of delamination's are present, mo	·		2016					
	510 - Wearing Surfaces	Routine	08/19/2016	3283 SF	2955	0	328	0	
		Migrated Values	00/19/2010	3283 SF	2955	0	328	0	
	Notes: Asphalt patches are present on t Chained deck surface for delams in 201 Unsound wearing surface SF quantity = Unsound wearing surface area total is l	5. 200 SF total of dela	ms are present.		15				
205	Reinforced Concrete Column	Routine	08/19/2016	12 EA	8	4	0	0	
		Migrated Values		12 EA	8	4	0	0	
	Notes: Spall repair at column. 2011 Corners at 3 columns are cracked or sp 1 column delaminating - N. side of the to		ks. 2013-16						
215	Reinforced Concrete Abutment	Routine	08/19/2016	184 LF	101	60	23	0	
		Migrated Values		184 LF	101	60	23	0	
	Notes: Differential settlement of 2" horiz [2009] Water evident on both abutments Abut. joints leak. 2011-16 Extensive cracking, leaching and staining Delams and spalls deeper than 1" and of NW wing wall is tilted out 2" at the joint.	zontally at centerline s ng present. 2013- greater than 6" in dia	16						
	NE wing wall has a 3' spall at the top. SE wing wall is tilted out 2" at the joint.	2014-16 2014-16							
220	Reinforced Concrete Pile Cap/Footing	Routine	08/19/2016	138 LF	137	1	0	0	
		Migrated Values		138 LF	137	1	0	0	
	Notes: Minor vertical cracks are preser S. footing - N. side has 1 moderate wide			16					
234	Reinforced Concrete Pier Cap	Routine	08/19/2016	135 LF	126	3	6	0	
		Migrated Values		135 LF	126	3	6	0	
	Notes: There is a four sq. ft. spall at the N. Pier has 4 sq. ft. of spall at the bottor S. Pier has 4 Ln. ft. of spall at the bottor Exposed aggregate and wide cracks are Most issues are at the center line of the	n of the cap. 2005 n of the SE cap. e present. 2016	•	outh pier. 20	)11-16				

#### BRIDGE 90409 CSAH 55(JACKSON) OVER CP RAIL

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
301	Pourable Joint Seal	Routine Migrated Values	08/19/2016	300 LF 300 LF	0	0 0	200 200	100 100	
	Notes: Leaching thru construction joint Missing sealant. 2013-16 Leaching through transverse joints. 19 Deck adjacent to joint has spalling and Bituminous repairs and patching is presconcrete repairs needed to reseal prop	992-2016 delams present. (app sent. 2013-16							
321	Reinforced Concrete Approach Slab	Routine Migrated Values	08/19/2016	915 SF 915 SF	689 689	50 50	176 176	0	
	Notes: Wide crack in the north approar [2009] 1"+ settlement both approaches N. approach is concrete. 2014 Asphalt patches are present. 2016 Hairline cracks are present. 2016	ch lane. 1992-2016	6	310 61	000	00	110	v	
330	Metal Bridge Railing	Routine	08/19/2016	217 LF	109	108	0	0	
		Migrated Values		217 LF	109	108	0	0	
	Notes: Railing consists of metal posts The second post from the north end of Components are slightly bent and mis a Impact damage to the east side railing. All posts on the NE side and railing ha	the east railing is ben aligned. Mostly on the 2014	t out 3". 2016 E. side. 2013-	16	e pipe rail.				
	515 - Steel Protective Coating	Routine	08/19/2016	865 SF	0	439	86	340	
		Migrated Values		865 SF	0	439	86	340	
	Notes: CS-2, chalking and fading of fini CS-3, primer coat is exposed. CS-4, exposed metal, rusting, no protection.								
800	Critical Deficiencies or Safety Hazards	Routine	08/19/2016	1 EA	1	0	0	0	
	Notes: NO CRITICAL FINDINGS OBS	Migrated Values ERVED DURING THI	E LAST INSPEC	1 EA TION.	1	0	0	0	
810	Concrete Decks - Cracking & Sealing	Routine	08/19/2016	670 LF	670	0	0	0	
010	Concrete Decks - Cracking & Sealing	Routine Migrated Values	08/19/2016	670 LF 670 LF	670 670	0 0	0 0	0	
010	Concrete Decks - Cracking & Sealing  Notes: Unsealed cracks less than .012	Migrated Values	08/19/2016						
		Migrated Values	08/19/2016						
	Notes: Unsealed cracks less than .012	Migrated Values " wide. 2016		670 LF	670	0	0	0	
	Notes: Unsealed cracks less than .012	Migrated Values 2016  Routine Migrated Values	08/19/2016	670 LF	670	0	0	0	
822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway	Migrated Values 2016  Routine Migrated Values	08/19/2016	670 LF	670	0	0	0	
 822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over	Migrated Values " wide. 2016  Routine  Migrated Values erlaid with bituminous	08/19/2016	670 LF 1 EA 1 EA	1 1	0 0 0	0 0 0	0 0 0	
 822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over	Migrated Values " wide. 2016  Routine Migrated Values erlaid with bituminous  Routine Migrated Values	08/19/2016 2014 08/19/2016	1 EA 1 EA 1 EA 1 EA	1 1 1	0 0 0	0 0 0	0 0 0	
822 ———8883	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over	Migrated Values " wide. 2016  Routine Migrated Values erlaid with bituminous  Routine Migrated Values	08/19/2016 2014 08/19/2016	1 EA 1 EA 1 EA 1 EA	1 1 1	0 0 0	0 0 0	0 0 0	 S
822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over  Concrete Shear Cracking  Notes: Use this element to monitor the	Migrated Values "wide. 2016  Routine Migrated Values erlaid with bituminous  Routine Migrated Values presence of shear cr	08/19/2016 2014 08/19/2016 acking on concre	670 LF  1 EA 1 EA 1 EA 1 EA 1 EA	1 1 1 1 ay particula	0 0 0 0 0 ar attentior	0 0 0 0 0	0 0 0 0 0 ncrete pier caps	 S
822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over  Concrete Shear Cracking  Notes: Use this element to monitor the	Migrated Values  Routine Migrated Values erlaid with bituminous  Routine Migrated Values presence of shear cr  Routine  Migrated Values	08/19/2016  2014  08/19/2016  acking on concre	1 EA 1 EA 1 EA 1 EA 1 EA 1 EA	1 1 1 ay particul:	0 0 0 0 ar attention	0 0 0 0 0 on to the cor	0 0 0 0 oncrete pier caps	s.
 822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over  Concrete Shear Cracking  Notes: Use this element to monitor the Load Posting or Vertical Clearance Signing	Migrated Values  Routine Migrated Values erlaid with bituminous  Routine Migrated Values presence of shear cr  Routine  Migrated Values	08/19/2016  2014  08/19/2016  acking on concre	1 EA 1 EA 1 EA 1 EA 1 EA 1 EA	1 1 1 ay particul:	0 0 0 0 ar attention	0 0 0 0 0 on to the cor	0 0 0 0 oncrete pier caps	s
822 	Notes: Unsealed cracks less than .012  Bituminous Approach Roadway  Notes: S. approach was milled and over  Concrete Shear Cracking  Notes: Use this element to monitor the  Load Posting or Vertical Clearance  Signing  Notes: Load posting signs are in place	Migrated Values Routine Migrated Values Prize Migrated Values Provine Migrated Values Presence of shear cr Routine Migrated Values Presence Values And The Migrated Values Noutine Migrated Values And The Migrated Values Noutine Migrated Values Noutine Migrated Values Noutine Migrated Values Noutine	08/19/2016 2014 08/19/2016 acking on concre 08/19/2016	1 EA 1 EA 1 EA 1 EA 1 EA 1 EA 1 EA	1 1 1 ay particul:	0 0 0 0 ar attentior 0	0 0 0 0 0 to the cor	0 0 0 0 0 ncrete pier caps 0	S

#### BRIDGE 90409 CSAH 55(JACKSON) OVER CP RAIL

Notes: The approaches have 2 cable Cables and posts repaired on east side Cable system is intact - substandard.  Cock & Approach Drainage  Notes: Use this element to rate the capable Curb & Modian	de. 2014 (impact dar 2016 Routine Migrated Values	08/19/2016	1 EA 1 EA 1 EA 1 EA drainage syster	0 0 1 1	1 1 0 0	0 0 0	0 0 0	
Cables and posts repaired on east sic Cable system is intact - substandard. ock & Approach Drainage  Notes: Use this element to rate the c	es and posts for guardr de. 2014 (impact dar 2016 Routine Migrated Values	08/19/2016	1 EA 1 EA	1 1	0	0	0	
Cables and posts repaired on east sic Cable system is intact - substandard. ock & Approach Drainage  Notes: Use this element to rate the c	de. 2014 (impact dar 2016 Routine Migrated Values	08/19/2016	1 EA	1	-	•	-	
Notes: Use this element to rate the c	Migrated Values		1 EA	1	-	•	-	
	· ·	adequacy of the		•	0	0	0	
	condition, function, and	adequacy of the	drainage syster	m.				
dowalk Curb & Modian								
dewaik, Cuib, & Median	Routine	08/19/2016	1 EA	0	0	0	1	
	Migrated Values		1 EA	0	0	0	1	
The NW walk is down about 4". 19 All approach curbs and walks are bac Both sides - walk patched with aspha There is no sidewalk in the north and Approach walks are in very poor cond	95-2016 dly settled and broken. lt. 1996-2016 south roadways. 20 dition. 2011-16	1991-2016 00-16	at the outp.					
scellaneous Items	Routine	08/19/2016	1 EA	1	0	0	0	
	Migrated Values		1 EA	1	0	0	0	
Notes: The northwest and southeast	retaining walls are tipp	ed out 1" to 3" in	nch. 2007-16					
otected Species	Routine	08/19/2016	1 EA	1	0	0	0	
	Migrated Values		1 EA	1	0	0	0	
Notes: Use this element to track the None found in 2016.	presence of protected	species living on	this structure.					
	The NW walk is down about 4". 19 All approach curbs and walks are backed by the sides - walk patched with asphathere is no sidewalk in the north and Approach walks are in very poor concept of scellaneous Items  Notes: The northwest and southeast of the concept of the second species  Notes: Use this element to track the	Migrated Values  Notes: The N.E. approach walk is tilted 2" down at the east The NW walk is down about 4". 1995-2016 All approach curbs and walks are badly settled and broken. Both sides - walk patched with asphalt. 1996-2016 There is no sidewalk in the north and south roadways. 20 Approach walks are in very poor condition. 2011-16 Severe settlement is present. More than 2". CS-4 2016 Scellaneous Items Routine Migrated Values  Notes: The northwest and southeast retaining walls are tipp offected Species Routine Migrated Values  Notes: Use this element to track the presence of protected None found in 2016.	Migrated Values  Notes: The N.E. approach walk is tilted 2" down at the east railing and flush The NW walk is down about 4". 1995-2016  All approach curbs and walks are badly settled and broken. 1991-2016  Soth sides - walk patched with asphalt. 1996-2016  There is no sidewalk in the north and south roadways. 2000-16  Approach walks are in very poor condition. 2011-16  Severe settlement is present. More than 2". CS-4 2016  Scellaneous Items Routine 08/19/2016  Migrated Values  Notes: The northwest and southeast retaining walls are tipped out 1" to 3" in otected Species Routine 08/19/2016  Migrated Values  Notes: Use this element to track the presence of protected species living on None found in 2016.	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Migrated Values 1 EA 0  Notes: The N.E. approach walk is tilted 2" down at the east railing and flush at the curb. 2005-07  The NW walk is down about 4". 1995-2016  All approach curbs and walks are badly settled and broken. 1991-2016  Both sides - walk patched with asphalt. 1996-2016  There is no sidewalk in the north and south roadways. 2000-16  Approach walks are in very poor condition. 2011-16  Severe settlement is present. More than 2". CS-4 2016  Scellaneous Items Routine 08/19/2016 1 EA 1  Migrated Values 1 EA 1  Notes: The northwest and southeast retaining walls are tipped out 1" to 3" inch. 2007-16  Directed Species Routine 08/19/2016 1 EA 1  Migrated Values 1 EA 1  Migrated Values 1 EA 1  Notes: Use this element to track the presence of protected species living on this structure. None found in 2016.	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General Notes: CP Railroad contact:

Nate Lund cell (651) 238-8033 nathan\_lund@cpr.ca

County contacts: Kathy Jascke 266-7192 Nick Fischer 266-7119

58. Deck NBI: Moderate to advanced deterioration. 2015

Moderate to extensive delaminations and spalling. 2015

36A. Brdg Railings NBI:

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail

Terminal NBI:

59. Superstructure NBI: Concrete Slab SpanModerate to advanced deterioration. 2015

Moderate to extensive delaminations and spalling. 2015

60. Substructure NBI: Differential settlement North Abutment of 2" at centerline

NW & SE wing walls tilted 2" out of plumb

61. Channel NBI:

62. Culvert NBI:

71. Waterway Adeq NBI:

72. Appr Roadway Alignment NBI:

Inventory Notes:

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
	Dan Reimer				(	Glenn Pag	nel		
	Inspector's Signature		_			iewer's Sig	•		

BRIDGE 90409 CSAH 55(JACKSON) OVER CP RAIL



1. pothole 90409 Jackson 003.JPG



2. railing repair 2014-04-23.jpg



3. restricted bridges.JPG



4. 2013 Elevation view 003.JPG



5. Center span delam.JPG



6. Delam at S abut.JPG



7. E side map cracking.JPG



8. Facing N.JPG



9. Offset of N abut at center (1).JPG



10. Offset of N abut at center (2).JPG



11. Offset of N abut at center looking straight up.JPG



12. S Approach, SB lane.JPG



13. SE Pier cap.JPG



14. Top of N abut, W end.JPG



15. Top of S abut, E end.JPG