

Mn/DOT Structure Inventory Report

Bridge ID: 9115 TH 36 EB over TH 95

Date: 08/08/2007

+ GENERAL +	+ ROADWAY +	+ INSPECTION +
Agency Br. No. Crew 7648 District METRO Maint. Area METRO County 82 - WASHINGTON City OAK PARK HEIGHTS Township Desc. Loc. AT JCT TH 95 Sect., Twp., Range 34 - 030N - 20W Latitude 45d 02m 24.41s Longitude 92d 47m 40.55s Custodian STATE HWY Owner STATE HWY Inspection By METRO DISTRICT BMU Agreement No. Year Built 1959 Year Fed Rehab Year Remodeled Temp Plan Avail. CENTRAL	Bridge Match ID (TIS) 1 Roadway O/U Key 1-ON Route Sys/Nbr MNTH 36 Roadway Name or Description TH 36 EB Roadway Function MAINLINE Roadway Type 1 WAY TRAF Control Section (TH Only) 8214 Ref. Point (TH Only) 203+00.937 Date Opened to Traffic 01-01-1959 Detour Length 1 mi. Lanes 2 Lanes ON Bridge ADT (YEAR) 9,750 (2004) HCADT 195 Functional Class. URB/OTH PR ART	Deficient Status S.D. Sufficiency Rating 28.3 Last Inspection Date 07-06-2006 Inspection Frequency 12 Inspector Name METRO Structure A-OPEN
	+ RDWY DIMENSIONS +	+ CONDITION CODES +
	If Divided NB-EB SB-WB Roadway Width 30.0 ft Vertical Clearance Max. Vert. Clear. Horizontal Clear. 30.0 ft Lateral Clr. - Lt/Rt Appr. Surface Width 38.0 ft Roadway Width 30.0 ft Median Width	Deck 3 Superstructure 3 Substructure 5 Channel N Culvert N
+ STRUCTURE +	+ MISC. BRIDGE DATA +	+ APPRAISAL RATINGS +
Service On HWY;PED Service Under HIGHWAY Main Span Type CCONC BOX GIRD Main Span Detail Appr. Span Type CONC BOX GIRD Appr. Span Detail Skew Culvert Type Barrel Length Number of Spans MAIN: 4 APPR: 1 TOTAL: 5 Main Span Length 108.0 ft Structure Length 401.0 ft Deck Width 37.3 ft Deck Material C-I-P CONCRETE Wear Surf Type MONOLITHIC CONC Wear Surf Install Year 1959 Wear Course/Fill Depth 0.25 ft Deck Membrane NONE Deck Rebars N/A Deck Rebars Install Year Structure Area 14,957 sq ft Roadway Area 12,034 sq ft Sidewalk Width - L/R 2.5 ft 2.5 ft Curb Height - L/R 0.83 ft 0.83 ft Rail Codes - L/R 18 18	Structure Evaluation 3 Deck Geometry 4 Underclearances 2 Waterway Adequacy N Approach Alignment 8	
	+ PAINT +	+ SAFETY FEATURES +
	Year Painted Pct. Unsound Painted Area Primer Type Finish Type	Bridge Railing 1-MEETS STANDARDS Appr. Guardrail 1-MEETS STANDARDS GR Transition 1-MEETS STANDARDS GR Termini 1-MEETS STANDARDS
	+ BRIDGE SIGNS +	+ IN DEPTH INSP. +
	Posted Load NOT REQUIRED Traffic NOT REQUIRED Horizontal OBJECT MARKERS Vertical NOT APPLICABLE	Frac. Critical Underwater Pinned Asbly. Spec. Feat.
		+ WATERWAY +
		Drainage Area Waterway Opening Navigation Control NOT APPL Pier Protection Nav. Vert./Horz. Clr. Nav. Vert. Lift Bridge Clear. MN Scour Code A-NON WATERWAY Scour Evaluation Year
		+ CAPACITY RATINGS +
		Design Load HS20 Operating Rating HS 59.1 Inventory Rating HS 35.5 Posting Rating Date 11-01-1995 Mn/DOT Permit Codes A: 1 B: 1 C: 1

Mn/DOT BRIDGE INSPECTION REPORT

BRIDGE 9115 TH 36 EB OVER TH 95

INSP. DATE: 07-06-2006

County: WASHINGTON Location: AT JCT TH 95 Length: 401.0 ft
 City: OAK PARK HEIGHTS Route: MNTH 36 Ref. Pt.: 203+00.937 Deck Width: 37.3 ft
 Township: Control Section: 8214 Maint. Area: METRO Rdwy. Area / Pct. Unsnd: 12,034 sq ft
 Section: 34 Township: 030N Range: 20W Local Agency Bridge Nbr: Paint Area / Pct. Unsnd:
 Span Type: CONC BOX GIRD
 NBI Deck: 3 Super: 3 Sub: 5 Chan: N Culv: N Open, Posted, Closed: OPEN
 Appraisal Ratings - Approach: 8 Waterway: N MN Scour Code: A-NON WATERWAY Def. Stat: S.D. Suff. Rate: 28.3
 Required Bridge Signs - Load Posting: NOT REQUIRED Traffic: NOT REQUIRED
 Horizontal: OBJECT MARKERS Vertical: NOT APPLICABLE

STRUCTURE UNIT: 0

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
12	TOP OF CONCRETE DECK	2	07-06-2006	14,957 SF	0	0	0	0	14,957
			05-20-2005	14,957 SF	0	0	0	0	14,957
Notes: 2 lanes EB. [1959] 3" Plain conc overlay with rebar hoops. [1994] Deck survey found 64% unsound deck with 7,136 SF of "bad deck" & 592 SF of patches. [2003] Bit patch at N end 26 SF is failing. 90% of surface is scaling. Rt lane at N end has 20 SF of spalls. [2003] 2 SF spall to 3/4" deep. [2006] 10 SF spall to 3/4" deep. [2007] New 2 inch LS Conc O/L.									
300	STRIP SEAL JOINT	2	07-06-2006	124 LF	83	41	0	N/A	N/A
			05-20-2005	124 LF	83	41	0	N/A	N/A
Notes: [1978] Type H strip joint pier 1 & 3 hinges. [85/2002] Concrete is scaling & cracking at all expansion joints. Several patches at the joints. [2004] Part of cover plate missing at east rail hinge 3. Gland 3"+ wide. [2007] New Type 4 Expansion devices.									
301	POURED DECK JOINT	2	07-06-2006	372 LF	37	335	0	N/A	N/A
			05-20-2005	372 LF	37	335	0	N/A	N/A
Notes: 12 pourable joint across deck. [98/2002] Joint sealer has 90% failure.									
320	CONC APPR SLAB-BITOL	2	07-06-2006	2 EA	0	2	0	0	N/A
			05-20-2005	2 EA	0	2	0	0	N/A
Notes: [2000] Bituminous overlay on approaches. [2003] 1.5 SF hole to 6" deep at SW panel. [2004] Bituminous breaking up at ends of approaches & roadway.									
333	RAILING - OTHER	2	07-06-2006	862 LF	577	258	27	N/A	N/A
			05-20-2005	802 LF	537	240	25	N/A	N/A
Notes: [1959] Rail code 18, 2 line metal rail. [93/2004] Railings have 200 SF of map cracking with rust stains, 250 SF delamination, 50 SF spall on rail beam, 30 LF of horizontal cracking. [2007] New Rail									
105	CONCRETE BOX GIRDER	2	07-06-2006	1,604 LF	1,349	200	55	0	N/A
			05-20-2005	1,604 LF	1,349	200	55	0	N/A
Notes: [1983] Box girder faces have 400 LF vertical cracks. [88/2000] Span 2: underside of box has 20 SF spall with exposed rebar. [2004] 35 SF each spall east face box at span 4 & 5 at pier 4. Span 5: west face has 10 SF of spall, east face has 10 SF of spall.									
379	CONCRETE HINGE	2	07-06-2006	3 EA	0	0	2	1	N/A
			05-20-2005	3 EA	0	0	2	1	N/A
Notes: Box girder has 3 "hinge" jts. [1983] Box girder at ea hinge has 60 SF map cracking w/ rust stains. Hinge 1 at S end of span #3: [95/2002] W face has 2 SF spall & vert crack, stained, E face cracked. Remote camera insp found severe cracking inside hinge. Hinge reinforced with 5 "Catcher Beams". Hinge 2 N end of span 3: [97/2004] W face has 15 SF of spall (3" deep with exp rebar), E face stained, 50 SF spall & exposed rebar bottom of box. Hinge 3 at span 5: [87/2002] W side 15 SF delam, E side 8 SF spall, cracked (both stained) 60 SF spall & exposed rebar bottom of box. [2007] Hinges Reconstructed/Repaired by Contract.									
310	ELASTOMERIC BEARING	1	07-06-2006	15 EA	15	0	0	N/A	N/A
Notes: [2007] Five Elastomeric expansion bearings at Hinges 2 & 3. Five Elastomeric fixed bearings at Hinge 1.									
311	EXPANSION BEARING	2	07-06-2006	10 EA	0	5	5	N/A	N/A
			05-20-2005	20 EA	0	5	15	N/A	N/A
Notes: North side of pier #1, hinge #2, pier #4, & hinge #3 each have five moveable bearings. [2002] Bearings at pier #1 has moderate rust. Bearings at hinges & pier #4 have severe rust. [2007] The 5 in place Expansion Bearings at Hinges 2 & 3 replaced with Elastomeric Bearings by Contract.									

Crew Number: 7648

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: METRO

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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
313	FIXED BEARING	2	07-06-2006	15 EA	0	15	0	N/A	N/A
			05-20-2005	20 EA	0	15	5	N/A	N/A
Notes: Both abutments, south side of pier 1, & hinge 1 each have five fixed bearings. [2002] Abutments & pier bearings have moderate rust. Hinge bearings have severe rust. [2007] The 5 in-place Rocker Plate fixed bearings at Hinge 1 replaced with Elastomeric bearings by Contract.									
205	CONCRETE COLUMN	2	07-06-2006	8 EA	5	3	0	0	N/A
			05-20-2005	8 EA	5	3	0	0	N/A
Notes: [1993] Columns have 30 SF of delamination. [95/2004] Pier #1: east column has 16 SF delamination, 6 SF spall, 2 LF vertical crack (1/4" wide), west column 2 SF delamination. Pier #2: column has map cracking.									
215	CONCRETE ABUTMENT	2	07-06-2006	75 LF	65	10	0	0	N/A
			05-20-2005	75 LF	65	10	0	0	N/A
Notes: [89/2002] South abutment: 10 LF of vertical cracks & SW corner has delamination with rust stains. North abutment: 10 LF of vertical cracks.									
234	CONCRETE CAP	2	07-06-2006	59 LF	30	1	28	0	N/A
			05-20-2005	59 LF	30	1	28	0	N/A
Notes: Piers #1 & 4 have caps. Pier 1: [87/2004] Cap has cracking & rust stains. Faces & underside of cap have 80 SF of spall with exposed & rusting rebar. Pier 4: [89/2004] Cap has map cracking & 1 SF of spall.									
387	CONCRETE WINGWALL	2	07-06-2006	4 EA	2	2	0	0	N/A
			05-20-2005	4 EA	2	2	0	0	N/A
Notes: SW Wingwall has 2 SF of spall 1" deep. NE Wingwall has 2 SF of cracking with rust stains.									
358	CONC DECK CRACKING	2	07-06-2006	1 EA	0	0	1	0	N/A
			05-20-2005	1 EA	0	0	1	0	N/A
Notes: [83/2002] Deck surface has 8000 SF of 1/4" wide map cracks. Some cracks are sealed. [2004] 750 LF random cracks. [2007] New LS Conc O/L.									
359	CONC DECK UNDERSIDE	2	07-06-2006	1 EA	0	0	1	0	0
			05-20-2005	1 EA	0	0	1	0	0
Notes: [90/2004] Copings each have 100 SF delamination & 100 SF spall with exposed rebar.									
964	CRITICAL FINDING	2	07-06-2006	1 EA	1	0	N/A	N/A	N/A
			05-20-2005	1 EA	1	0	N/A	N/A	N/A
Notes: Do not delete this critical finding smart flag.									
981	SIGNING	2	07-06-2006	1 EA	1	0	0	0	0
			05-20-2005	1 EA	1	0	0	0	0
Notes: Signs Required: Horizontal Clearance < none >									
982	GUARDRAIL	2	07-06-2006	1 EA	0	1	0	N/A	N/A
			05-20-2005	1 EA	1	0	0	N/A	N/A
Notes: Plate beam guardrail SW, SE & NW corners, 3 cable guardrail NE TH 36. Plate beam guardrail in front pier 2 & 3 at span 3 TH 95. [2006] Slight impact damage (under) at N guardrail.									
983	PLOWSTRAPS	2	07-06-2006	1 EA	0	1	0	N/A	N/A
			05-20-2005	1 EA	0	1	0	N/A	N/A
Notes: [2004] 3 plow straps missing at pier 1, hinge 1 & 2, 2 missing hinge 3. [2006] 11 plow straps missing.									
984	DRAINAGE	2	07-06-2006	1 EA	0	1	0	N/A	N/A
			05-20-2005	1 EA	0	1	0	N/A	N/A
Notes: 14 Deck drains SW, 12 deck drains NW corner. [1982] Drains extended & two at the NE corner is plugged. [1996] Washouts under bridge from deck drains.									
985	SLOPES	2	07-06-2006	1 EA	0	0	1	N/A	N/A
			05-20-2005	1 EA	0	0	1	N/A	N/A

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Notes: [1983] Bottom of south slope is breaking up & settling at columns. [1992] South slope has 6 SF undermined at west column. [2001/03] South slope west side has 30 LF of washout which was filled but has washed out again. [2003] South slope has undermined to 3' wide by entire length of slope to 18" deep. [2007] Repaired by Contract.

986	CURB & SIDEWALK	2	07-06-2006	1 EA	0	1	0	N/A	N/A
			05-20-2005	1 EA	0	1	0	N/A	N/A

Notes: [1983] Sidewalks have 50 LF of transverse cracks with curbs cracked at north expansion. [2007] ??? (Removed by Contract)

988	MISCELLANEOUS	1	07-06-2006	1 EA	1	0	0	N/A	N/A
			05-20-2005	1 EA	1	0	0	N/A	N/A

Notes: [2003] Graffiti on pier columns and beam.

General Notes: Bridge #9115, Year 2006
Bridge constructed in 1959. Bridge Repair Contract in 2007. [2000] Photos.

Note: Replacement has been delayed until the new St. Croix river bridge is "let".

Box girder should have internal inspection. Keep NBI ratings at "3" until after internal inspection.
Plans show bridge running south - north.

2002 Inspector: [REDACTED]
2003 Inspectors: [REDACTED]
2004 Inspector: [REDACTED]
2005 Inspector: [REDACTED]
2006 Inspector: [REDACTED]

Inspector's Signature

Reviewer's Signature / Date