

SCDOT BRIDGE INSPECTION FORM

14 of 195

(008) BRIDGE ID: 4010002600400
(005) ROUTE: RICHLAND I- 26
(006) CROSSING: C.N. AND L. RAILROAD

(009) LOCATION: 3MI NW OF COLA
(026) FUNCTIONAL CLASS: 11

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1958		(043) MAIN ORIGINAL (A)	1 04 1	
(106) YEAR RECON	1986		MAIN RECONST (B)	3 02 1	
(031) DESIGN LOAD	5		(044) APPR ORIGINAL (A)	0 00 0	
(032) APPR RDWAY	124		APPR RECONST (B)	0 00 0	
(033) BRIDGE MEDIAN	2		(107) DECK STRUCT	1	
(034) SKEW	0		(108) WEAR SURF	6 8 8	
(035) FLARED	0		(045) # MAIN SPANS	3	
(36A) RAILINGS	1		(046) # APPR SPANS	0	
(36B) TRANSITIONS	1		(048) MAX SPAN LGTH	55	
(36C) APPR GUARD	1		(308) APPR SPAN LGTH	0	
(36D) APPR GUARD END	1		(049) STRUCT LENGTH	165	
(041) TRAFFIC STATUS	A		(037) HISTORY	4	

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	N		(042) TYPE SERV; (A)-(B)	1 2	
(039) NAV VERT CLEAR	0		(028) LANES; ON(A) UND(B)	6 0	
(040) NAV HORZ CLEAR	0		(47A) HORZ CLEAR RIGHT	33	
(111) NAV PIER PROT			(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	0	
UNDERCLEARANCES	99 99		(47UB) HORZ CLEAR LEFT	0	
(10B) GREAT MIN RIGHT	21 1		(50B) SIDEWALK RIGHT	0	
(10C) GREAT MIN LEFT	0 0		(50A) SIDEWALK LEFT	0	
(54A) VERT CLEAR REF	R		(051) CURB TO CURB	118	
(54B) VERT CLEAR RIGHT	21 1		(052) DECK OUT-OUT	124	
(54C) VERT CLEAR LEFT	0 0		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	R		ABOVE DECK	99 99	
(55B) LAT CLEAR RIGHT	12.7				
(55C) LAT CLEAR LEFT	0				

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	1		(58) DECK	7	
(064) OPERATING RATING	69		(59) SUPER STR	4	
(065) INVENTORY RATING METHOD	1		(60) SUB STR	7	
(066) INVENTORY RATING	41		(061) CHANNEL	N	
(319) LAST PAINT DATE			(062) CULV RET	N	

CRITICAL INSPECTION DATA

	EXISTING	REVISED
(090) INSP DATE	01/2012	12/13
(091) INSP FREQ	24	
(113) SCOUR CRITICAL	N	
	INTERVAL MTH YR	INTERVAL MTH YR
(93A) FRACTURE	N	
(93B) UNDERWATER	N	
(93C) SPECIAL	N	

APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	4	GEN
(068) DECK GEOM	9	GEN
(069) UNDERCLEAR	5	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	N	
(072) APPR RDWAY	8	
(411) LOAD RATING ID	11/15/1996	

2823

12/11/2013

12/11/2013

Bridge Element Group Textual Data

Bridge ID: 40-1-00026-0-04-00

19 Dec-2013

Abutments and/or Headwalls:

Water seeping through construction joint at bottom of headwall and top of cap, East end. Hairline cracks w/eff. in headwalls. Minor spalls w/rust in wingwalls, both ends. Washing under cap and on fill, East end, right side with steel piles exposed, (see photo).

Bents and/or Piers:

(7) Hairline cracks in caps, (see sketch sheet).

Bearings:

Minor rust on bearings. Several elastomeric pads are starting to bulge out past saddles at bent 3. Several nuts in shim plates on the continuous saddles do not have full nut at bents 2 and 3. Several nuts on anchor bolts not tight, (see sketch sheet).

Girders/Floor Beams/Stringers and/or Beams:

(4) Flexure cracks approximately mid-span on all beams. Continuous saddles have been installed at bents 2 and 3 beams 1-10, (see sketch sheet). Saddle connections at bent 2, beams 4-6 are not pulled up tight.

Truss Members:

Expansion Joints:

Expansion material pulled loose and/or missing. Joints are impacted with debris. Joints are partially covered with asphalt overlay.

Decks and/or Slabs:

(7) Hairline cracks w/eff. on underside of deck. Asphalt overlay on deck above beams 1-13, concrete above beams 14-20.

Curbs:

Approach curb broken, West end, right side, bent 1.

Bridge Railing/Parapets and/or Median Barriers:

Bridge and approach rail in place. Hairline cracks w/eff. in parapet walls. Minor collision damage to parapet wall in EBL.

Paint System(s):

Ther-o-seal peeling from caps.

Waterway and Scour:

Fender System:

Roadway Alignment:

Minor washing under approach slab and curb on West end right side causing minor settlement of slab.

Traffic Signs:

1 bridge end sign in place and 1 missing.

Encroachments:

2-2" metal pipes on right side, attached to side of deck. 1-2" metal pipe on left side, attached to bottom of deck.

Miscellaneous Notes:

GPS: 34-01-35, 81-06-07.

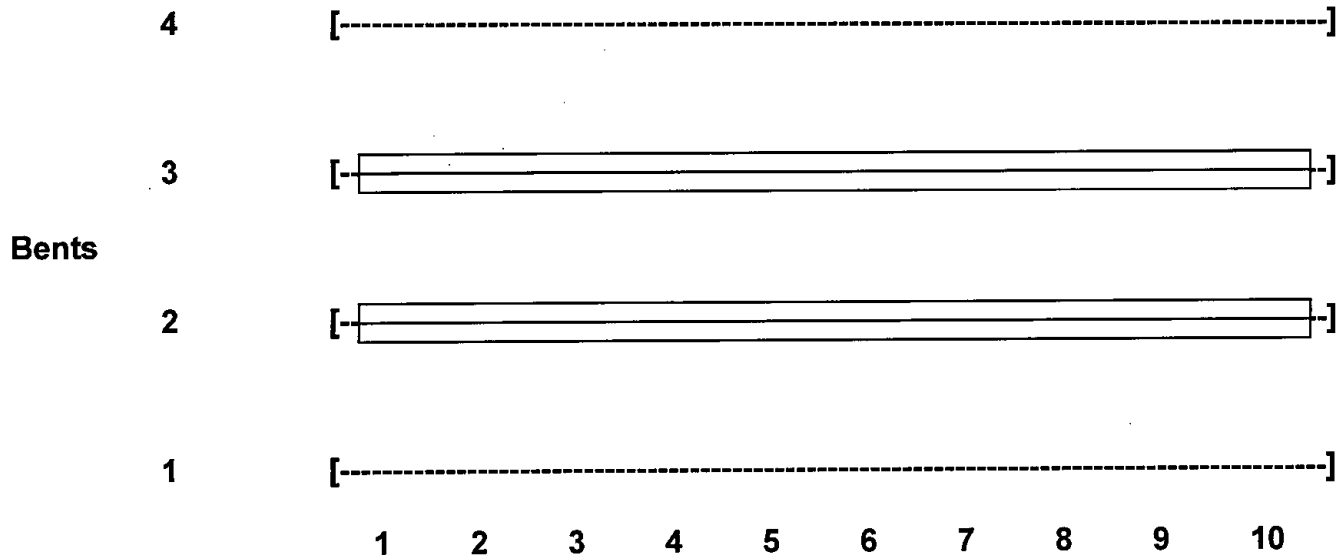
SCDOT BRIDGE INSPECTION SKETCH SHEET

STRUCTURE NO: 4010002600400
ROUTE NO: I-26
COUNTY: Richland

INSPECTION DATE: 19 Dec 2013
CROSSING: C.N. & L. RR
RESTRICTION: _____

North / South / East / West

Not To Scale



Beams
North / South / East / West

4010002600400

[=====] = Continuous saddles.
Concrete beams only.

Sketch Sheet

DATE 19 Dec 2013

STRUCTURE NUMBER 4010002600400

ROAD NUMBER I-26

COUNTY Richland

CROSSING C.N. & L. RR

RESTRICTION _____

Caps

Cap bent 1 has a:

- 8' long. h/l crack between beams 1 & 3.
- 2' vert. h/l crack under beam 3.
- 2' vert. h/l crack under beam 6.
- 2' vert. h/l crack under beam 7.
- 2' long. h/l crack between beams 12 & 13.

Cap bent 2 has a:

- 2' vert. h/l crack between columns 1 & 2, East side.
- 3' vert. h/l crack above column 4, West side.

Cap bent 3 has a:

- 3' vert. h/l crack above column 1, East side.
- 3' diag. h/l crack above column 1, East side.
- 3' diag. h/l crack above column 4, West side.

Cap bent 4 has a:

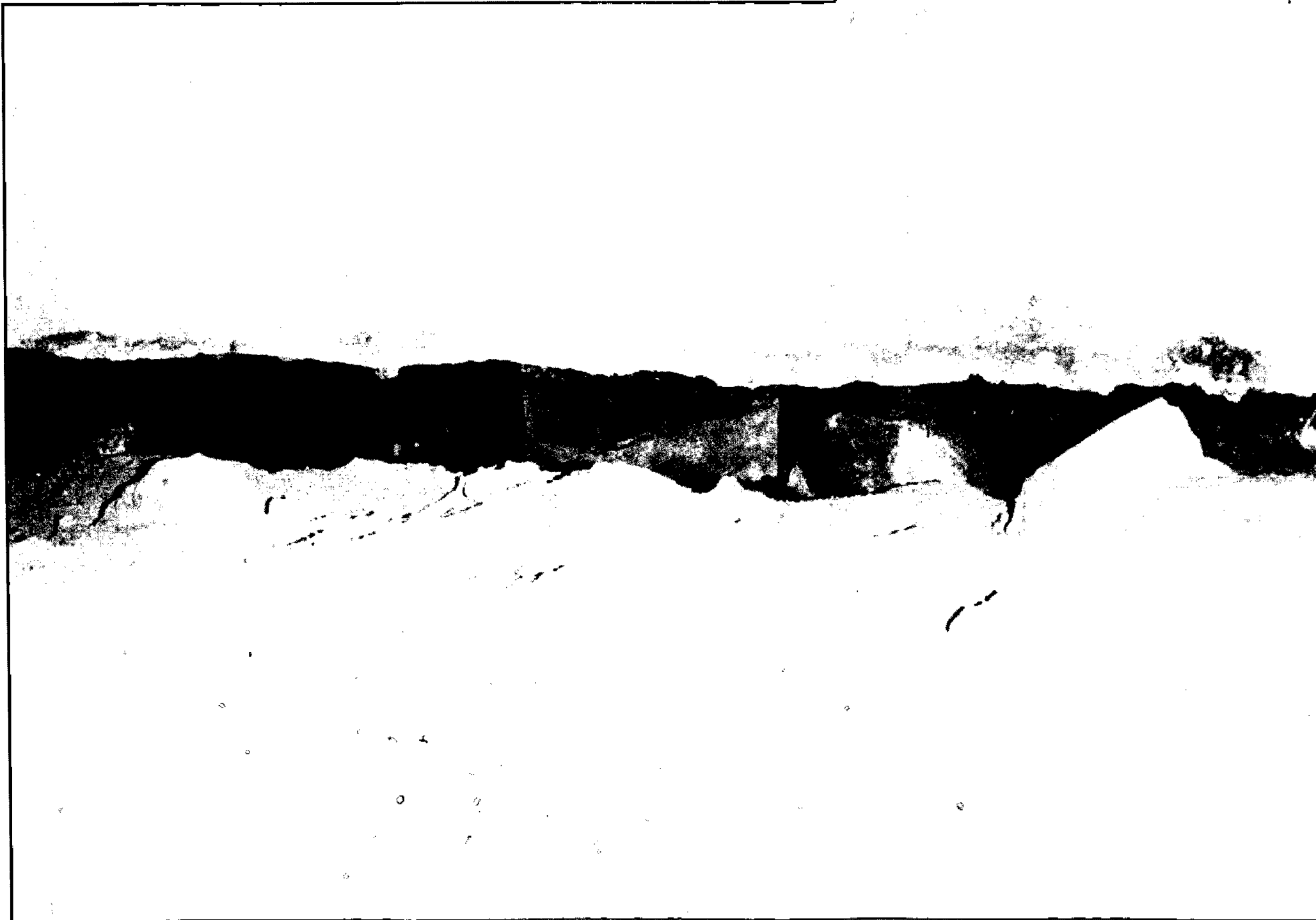
- 3' long. h/l crack between beams 2 & 3.
- 3' long. h/l crack between beams 3 & 4.
- 2' long. h/l crack between beams 9 & 10.

Anchor/Saddle Bolts/Nuts

- Bent 1 beam 3 span 3 has a loose anchor bolt nut, left side.
- Bent 3 beam 5 span 3 has a loose saddle bolt, right side.
- Bent 3 beam 12 span 2 has a loose anchor bolt nut, left side.
- Bent 3 beam 13 span 2 has a loose anchor bolt nut, right side.
- Bent 3 beam 19 span 2 has a loose anchor bolt nut, right side.
- Bent 3 beam 20 span 2 has a loose anchor bolt nut, right side.

4010002600400 I-26 C.N. & L. RR 12/19/13

Moderate washing under bent 4 w/steel piles exposed.



SCDOT PONTIS BMS ELEMENT DATA FORM

STRUCTURE NO.: 4010002600400
FACILITY CARRIED: I-26
CROSSING: C.N. AND L. RAILROAD
INSPECTION DATE: 19 Dec-2013

DECK: 7 SUPERSTRUCTURE: 4 SUBSTRUCTURE: 7

CULVERT: N

[illegible]