

SCDOT BRIDGE INSPECTION FORM

1 of 103

(008) BRIDGE ID: 3210002020300
(005) ROUTE: LEXINGTON I- 20
(006) CROSSING: SOUTHERN RWY & FRTG RD

(009) LOCATION: 3MI E OF LEX
(026) FUNCTIONAL CLASS: 11

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1965		(043) MAIN ORIGINAL (A)	5 02 1	
(106) YEAR RECON	0		MAIN RECONST (B)		
(031) DESIGN LOAD	5		(044) APPR ORIGINAL (A)	0 00 0	
(032) APPR RDWAY	36		APPR RECONST (B)		
(033) BRIDGE MEDIAN	0		(107) DECK STRUCT	1	
(034) SKEW	45		(108) WEAR SURF	1 8 8	
(035) FLARED	0		(045) # MAIN SPANS	4	
(36A) RAILINGS	1		(046) # APPR SPANS	0	
(36B) TRANSITIONS	1		(048) MAX SPAN LGTH	60	
(36C) APPR GUARD	1		(308) APPR SPAN LGTH	0	
(36D) APPR GUARD END	1		(049) STRUCT LENGTH	230	
(041) TRAFFIC STATUS	A		(037) HISTORY	5	

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	N		(042) TYPE SERV; (A)-(B)	1 4	
(039) NAV VERT CLEAR	0		(028) LANES; ON(A) UND(B)	2 2	
(040) NAV HORZ CLEAR	0		(47A) HORZ CLEAR RIGHT	36	
(111) NAV PIER PROT			(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	47.5	
UNDERCLEARANCES	99 99		(47UB) HORZ CLEAR LEFT	0	
(10B) GREAT MIN RIGHT	22 3		(50B) SIDEWALK RIGHT	0	
(10C) GREAT MIN LEFT	0 0		(50A) SIDEWALK LEFT	0	
(54A) VERT CLEAR REF	R		(051) CURB TO CURB	36	
(54B) VERT CLEAR RIGHT	21 11		(052) DECK OUT-OUT	39	
(54C) VERT CLEAR LEFT	0 0		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	H		ABOVE DECK	99 99	
(55B) LAT CLEAR RIGHT	7				
(55C) LAT CLEAR LEFT	0				

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	1		(58) DECK	7	
(064) OPERATING RATING	73		(59) SUPER STR	7	
(065) INVENTORY RATING METHOD	1		(60) SUB STR	5	
(066) INVENTORY RATING	56		(061) CHANNEL	N	
(319) LAST PAINT DATE			(062) CULV RET	N	

CRITICAL INSPECTION DATA

	EXISTING	REVISED
(090) INSP DATE	12/2011	12/13
(091) INSP FREQ	24	
(113) SCOUR CRITICAL	N	
INTERVAL MTH YR		
(93A) FRACTURE	N	
(93B) UNDERWATER	N	
(93C) SPECIAL	N	

APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	5	GEN
(068) DECK GEOM	4	GEN
(069) UNDERCLEAR	3	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	N	
(072) APPR RDWAY	8	
(411) LOAD RATING ID		

4605

17/11/13

09/19/2013

Bridge Element Group Textual Data

Bridge ID: 32-1-00020-2-03-00

03 Dec-2013

Abutments and/or Headwalls:

Hairline cracks in headwalls around end of beams. Water seeping through construction joints between top of cap and bottom of headwall.

Bents and/or Piers:

(5) Large spalls at bearing area on cap bents 3 & 4 with hairline cracks and minor spalls in cap and cap build up, (see photo). Column 3 bent 4 has 3ea 1' vert. h/l cracks at top, North side. Column 3 bent 3 has 3ea 1' vert. h/l cracks at top, North side.

Bearings:

Heavy rust on bearings (may be frozen in place).

Girders/Floor Beams/Stringers and/or Beams:

(7) Several beams have hairline cracks in filler area behind bearings. Several diaphragms have hairline cracks w/eff. minor spalls w/rust.

Truss Members:

Expansion Joints:

Expansion material cracked, missing, and pulled loose.

Decks and/or Slabs:

(7) Moderate scaling and map cracking on deck with moderate/large spalls w/rust on deck, (see photo).

Curbs:

Minor spalls on curb.

Bridge Railing/Parapets and/or Median Barriers:

Bridge and approach rail in place. Missing transitions from approach rail to bridge rail, East end, right side.

Paint System(s):

Waterway and Scour:

Fender System:

Roadway Alignment:

Traffic Signs:

2 bridge end signs in place on I-20. 1 bridge end sign in place, 1 missing on frontage road frontage road. 20' edge of road to columns.

Encroachments:

Miscellaneous Notes:

GPS: 33-58-23, 81-11-50.

Sketch Sheet

DATE 3 Dec 2013

STRUCTURE NUMBER 3210002020300

ROAD NUMBER I-20

COUNTY Lexington

CROSSING Southern RWY & Frtg. Rd

RESTRICTION _____

Caps

Cap bent 1 has a:

3' long. h/l crack between beams 3 & 4.

2' long. h/l crack under beam 4.

2' long. h/l crack under beam 5.

Cap bent 2 has a:

2ea 6" vert. h/l cracks w/eff. under beam 3, West side.

Minor spall under beam 4, 6"x6", West side, (see photo).

Cap bent 3 has:

H/l cracks in patch under beam 1, East side.

6" vert. h/l crack under beam 2, East side.

2ea 2' trans. h/l cracks bottom of cap between columns 2 & 3.

Cap bent 4 has:

Large spalls w/rust under beam 1, 1'x2', West side, (see photo).

H/l crack in patch under beam 1, East side.

2ea 2' trans. h/l cracks bottom of cap between columns 1 & 2.

Large spalls w/rust under beam 5, 1'x3', West side, (see photo).

Large spalls w/rust under beam 4, 1'x1', West side, (see photo).

Cap bent 5 has a 2' vert. h/l crack between beams 2 & 3.

Beams

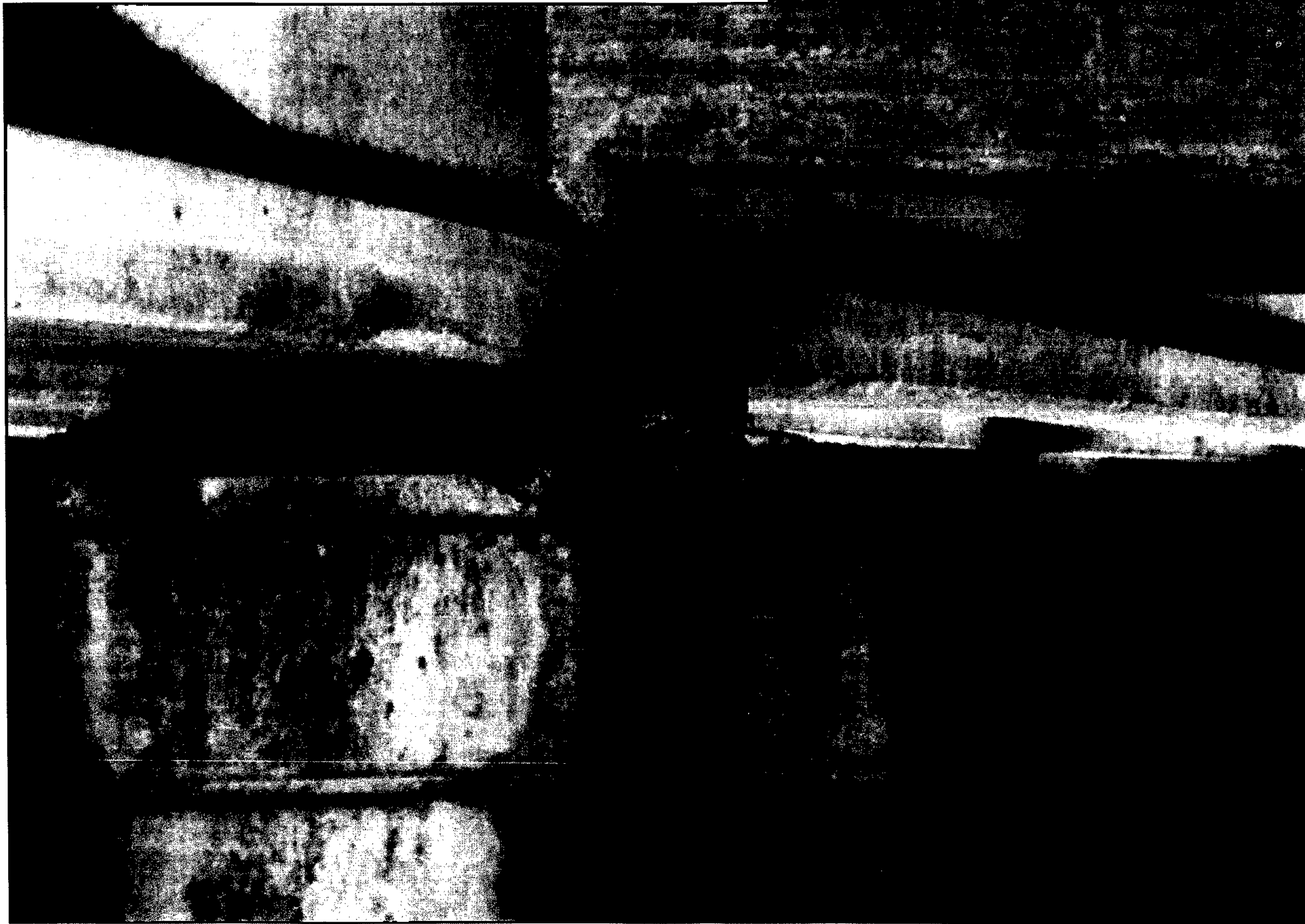
Beam 1, bent 4, span 3 has a moderate spall.

Beam 2, bent 2, span 1 has a moderate spall at bearing.

Beam 4, bent 4, span 3 has a moderate spall.

Beam 5, bent 4, span 3 has a moderate spall.

3210002020300 I-20 Southern R/R & FRT Road 12/3/13
Bent 2 has a minor spall under beam 4, West side.



3210002020300 I-20 Southern R/R & FRT Road 12/3/13
Bent 4 has a large spall w/rust under beam 1, West side.



3210002020300 I-20 Southern R/R & FRT Road 12/3/13
Bent 4 has a large spall w/rust under beam 4, West side.



3210002020300 I-20 Southern R/R & FRT Road 12/3/13
Bent 4 has a large spall w/rust under beam 5, West side.

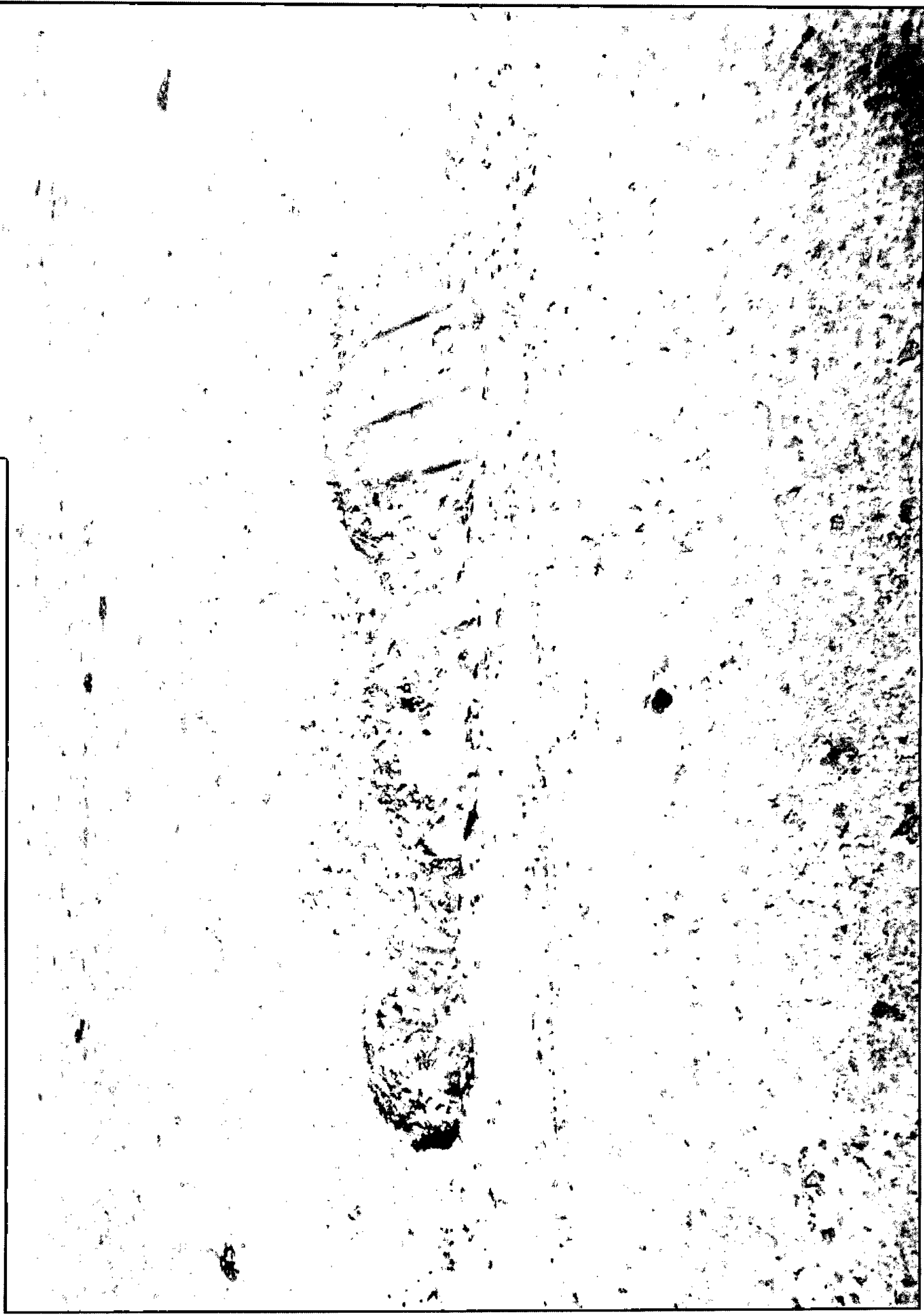


3210002020300 I-20 Southern R/R & FRT Road 12/3/13

Large spalls w/rust on deck.



3210002020300 I-20 Southern R/R & FRT Road 12/3/13
Large spall w/rust on deck, typical.



SCDOT PONTIS BMS ELEMENT DATA FORM

STRUCTURE NO.: 3210002020300
FACILITY CARRIED: I-20
CROSSING: SOUTHERN Rwy & FRTG RD
INSPECTION DATE: ~~7-Dec-2011~~

3 Dec 2013

DECK: 7 SUPERSTRUCTURE: 7 SUBSTRUCTURE: 5

CULVERT: N

[illegible]