

(008) BRIDGE ID: 4010012620071
(005) ROUTE: RICHLAND I- 126 RMP
(006) CROSSING: I-126 I-26 SALUDA RIV RR

(009) LOCATION: 4 MIN NW OF COLUMBIA
(026) FUNCTIONAL CLASS: 11

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1985		(043) MAIN ORIGINAL (A)	4 02 1	
(106) YEAR RECON	0		MAIN RECONST.(B)		
(031) DESIGN LOAD	5		(044) APPR ORIGINAL (A)	0 00 0	
(032) APPR RDWAY	27		APPR RECONST (B)		
(033) BRIDGE MEDIAN	0		(107) DECK STRUCT	1	
(034) SKEW	0		(108) WEAR SURF	1 0 0	
(035) FLARED	0		(045) # MAIN SPANS	18	
(36A) RAILINGS	1		(046) # APPR SPANS	0	
(36B) TRANSITIONS	1		(048) MAX SPAN LGTH	183	
(36C) APPR GUARD	1		(308) APPR SPAN LGTH	0	
(36D) APPR GUARD END	1		(049) STRUCT LENGTH	2487	
(041) TRAFFIC STATUS	A		(037) HISTORY	5	

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	N		(042) TYPE SERV; (A)-(B)	1 8	
(039) NAV VERT CLEAR	0		(028) LANES; ON(A) UND(B)	1 13	
(040) NAV HORZ CLEAR	0		(47A) HORZ CLEAR RIGHT	27.5	
(111) NAV PIER PROT			(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	40	
UNDERCLEARANCES	99 99		(47UB) HORZ CLEAR LEFT	40	
(10B) GREAT MIN RIGHT	18 1		(50B) SIDEWALK RIGHT	0	
(10C) GREAT MIN LEFT	17 10		(50A) SIDEWALK LEFT	0	
(54A) VERT CLEAR REF	H		(051) CURB TO CURB	27.5	
(54B) VERT CLEAR RIGHT	17 11		(052) DECK OUT-OUT	30.9	
(54C) VERT CLEAR LEFT	17 8		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	H		ABOVE DECK	99 99	
(55B) LAT CLEAR RIGHT	10				
(55C) LAT CLEAR LEFT	4				

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	2		(58) DECK	7	6
(064) OPERATING RATING	50		(59) SUPER STR	7	6
(065) INVENTORY RATING METHOD	2		(60) SUB STR	7	
(066) INVENTORY RATING	36		(061) CHANNEL	8	
(319) LAST PAINT DATE			(062) CULV RET	N	

CRITICAL INSPECTION DATA

	EXISTING	REVISED
(090) INSP DATE	01/2012	12/15
(091) INSP FREQ	24	
(113) SCOUR CRITICAL	8	
	INTERVAL MTH YR	INTERVAL MTH YR
(93A) FRACTURE	N	
(93B) UNDERWATER	Y48 09/2012	
(93C) SPECIAL	Y24 03/2012	

APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	7	GEN
(068) DECK GEOM	3	GEN
(069) UNDERCLEAR	4	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	9	
(072) APPR RDWAY	8	
(411) LOAD RATING ID		

#7934

SLW

02/15/17

W/L

12/11/2013

Bridge Element Group Textual Data

Bridge ID: 40-1-00126-2-00-71

14 Dec-2016

Abutments and/or Headwalls:

Vert. hairline cracks in headwalls. Moderate erosion on fill bent 1, (see photo).

Bents and/or Piers:

(7) Moderate accumulation of dirt and debris on caps at finger joints, (see photo). Long. hairline cracks in composite cap under beams at spans 2-4. Hairline cracks and minor spalls in caps, (see sketch sheet, photo). Minor spalls in concrete columns, (see sketch sheet). Dirt/debris on caps, (see photo).

Bearings:

Several anchor bolt nuts are loose/missing, (see sketch sheet). Elastomeric pad is leaning out of plumb on East abutment. Moderate dirt around bearings at finger joints, (see photo).

Girders/Floor Beams/Stringers and/or Beams:

(6) Heavy rust on diaphragms at finger joints and end of beams, (see photo). Minor/moderate rust forming on ends of beams, (see photo). Moderate rust on cover plates, (see photo).

Truss Members:

Expansion Joints:

Expansion material torn, loose, cracked, split, and missing, (see photo).

Decks and/or Slabs:

(6) Trans. hairline cracks w/eff. on underside of deck at soffit. Large spalls w/rust on deck, (see photo). Concrete spalling on underside of deck at finger joints. Trans. hairline cracks & hairline map cracking on top of deck. Large spall w/rebar exp. near mid-point of ramp. Deck drag preformed , Dec 2016, 6% spalls/delam.

Curbs:**Bridge Railing/Parapets and/or Median Barriers:**

Bridge and approach rail in place. Hairline cracks w/eff. in concrete parapet walls. Minor spall on top of parapet at first finger joint, right side.

Paint System(s):

Paint peeling from beams, bearings, and diaphragms, (see photo).

BRIDGE INSPECTION
STREAM / GROUND
PROFILE

COMMENTS: _____

TOP OF WATER * 35'4"

BRIDGE NUMBER 4010012620071

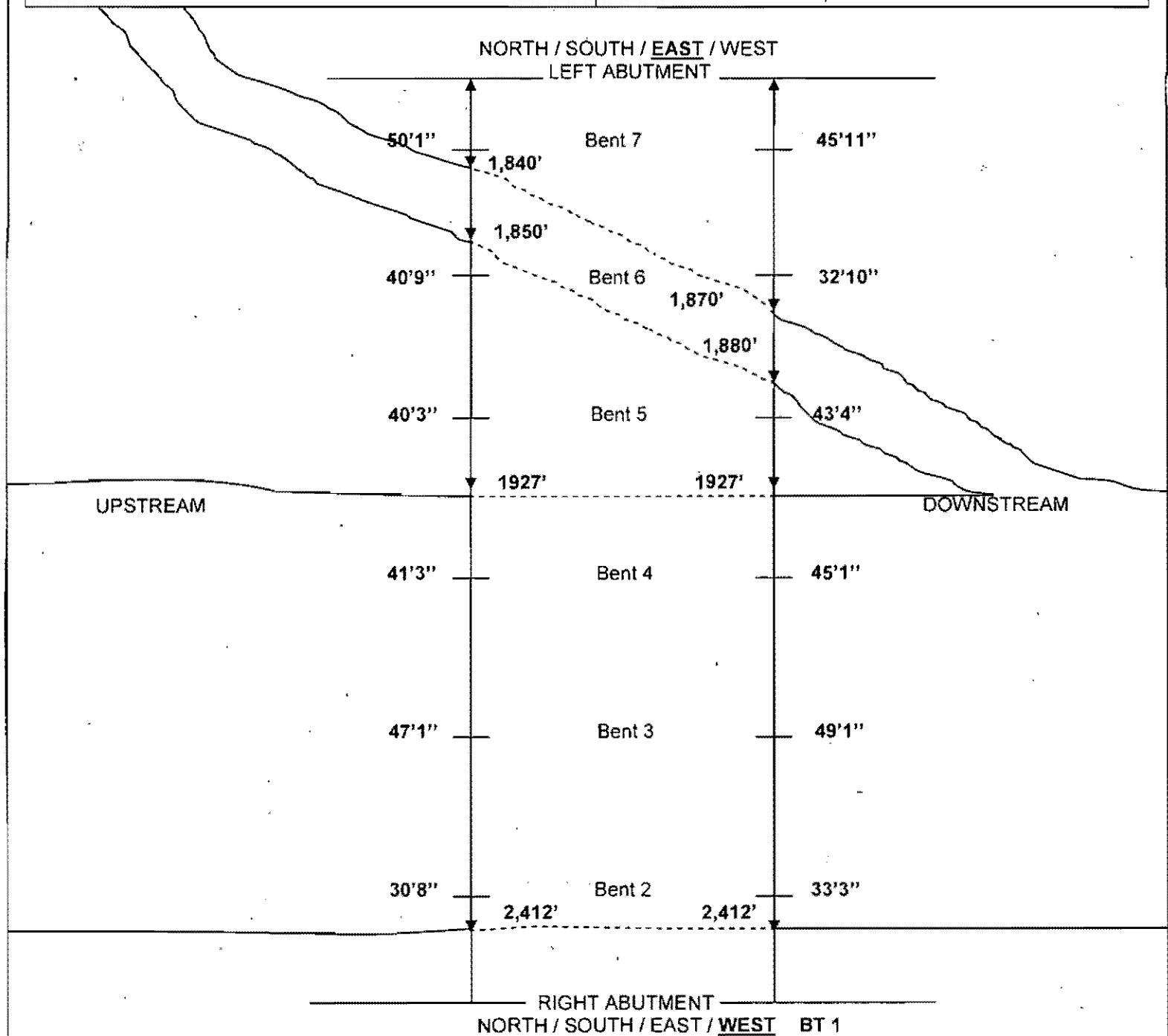
ROAD NUMBER I-126

CROSSING: Saluda River

TOP OF WATER TO Top OF Parapet

HORIZONTAL BLOCKAGE % _____ TO _____

VERTICAL BLOCKAGE % _____



PBC
MEASUREMENT BY

14 Dec 2016
DATE MEASURED

0900
TIME

MEASUREMENTS ARE FROM Top OF Parapet GROUND LINE.

BRIDGE INSPECTION
STREAM / GROUND
PROFILE

BRIDGE NUMBER 4010012620071

ROAD NUMBER I-126

COMMENTS: _____

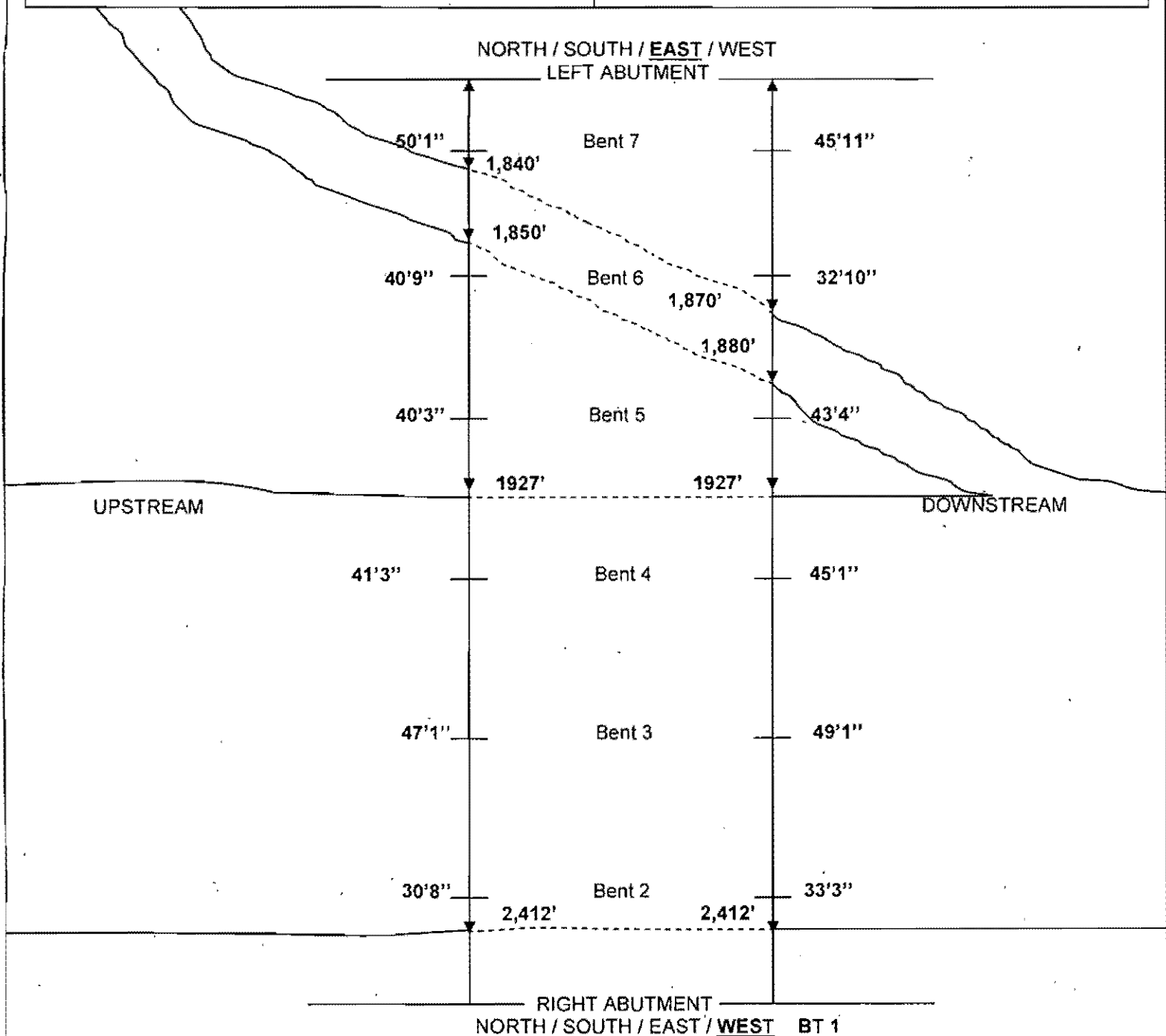
CROSSING: Saluda River

TOP OF WATER TO Top OF Parapet

HORIZONTAL BLOCKAGE % _____ TO _____

TOP OF WATER * 35'4"

VERTICAL BLOCKAGE % _____



CW
MEASUREMENT BY

15 Dec 2015
DATE MEASURED

0945
TIME

MEASUREMENTS ARE FROM Top OF Parapet GROUND LINE

Sketch Sheet

DATE 14 Dec 2016

STRUCTURE NUMBER 4010012620071

ROAD NUMBER I-126

COUNTY Lexington

CROSSING I-126, I-26, Saluda River, RR

RESTRICTION

Caps

Cap bent 10 has 4ea 2' vert. h/l cracks w/eff. & rust bleeding through, West side.

Cap bent 11 has a:

4ea 1' vert. h/l crack w/rust between bms 2 & 3, East side.

2ea minor spalls w/rust between bms 1 & 2, East side.

2' vert. h/l crack w/rust between bms 2 & 3, East side.

H/l map cracking between bms 3 & 4 East side.

Cap bent 15 has a:

Minor spall w/rust between bms 2 & 3, 6"x4", East side.

6" diag. h/l crack w/rust between bms 1 & 2, East side.

Cap bent 19 has a minor spall w/rust between bms 2 & 3, 6"x6".

Sketch Sheet

DATE 14 Dec 2016

STRUCTURE NUMBER 4010012620071

ROAD NUMBER I-126

COUNTY Lexington

CROSSING I-126, I-26, Saluda River, RR

RESTRICTION

Columns

Column 1, bent 15 has 2ea minor spalls w/rust at ground line, 3"x6", West side.

Sketch Sheet

DATE 14 Dec 2016

STRUCTURE NUMBER 4010012620071

ROAD NUMBER I-126

COUNTY Lexington

CROSSING I-126, I-26, Saluda River, RR

RESTRICTION

Missing Anchor Bolt Nuts

Beam	Bent	Span	
1	9	18	right side

Loose Anchor Bolt Nuts

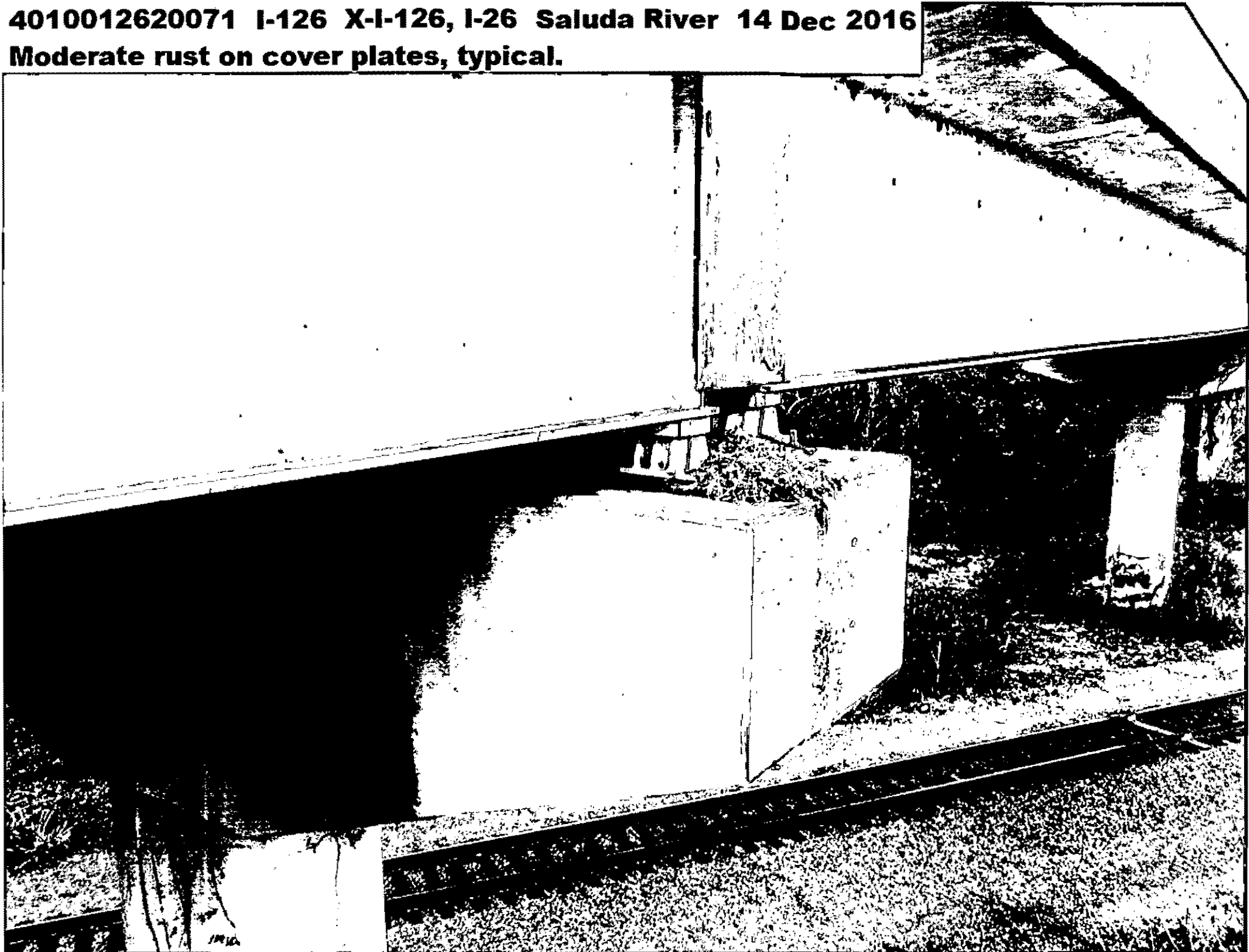
Beam	Bent	Span	
2	12	11	right side
1	13	12	right side
2	13	12	left side
3	15	14	left side

4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016
Minor/moderate rust forming on ends of beams, typical.



4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Moderate rust on cover plates, typical.

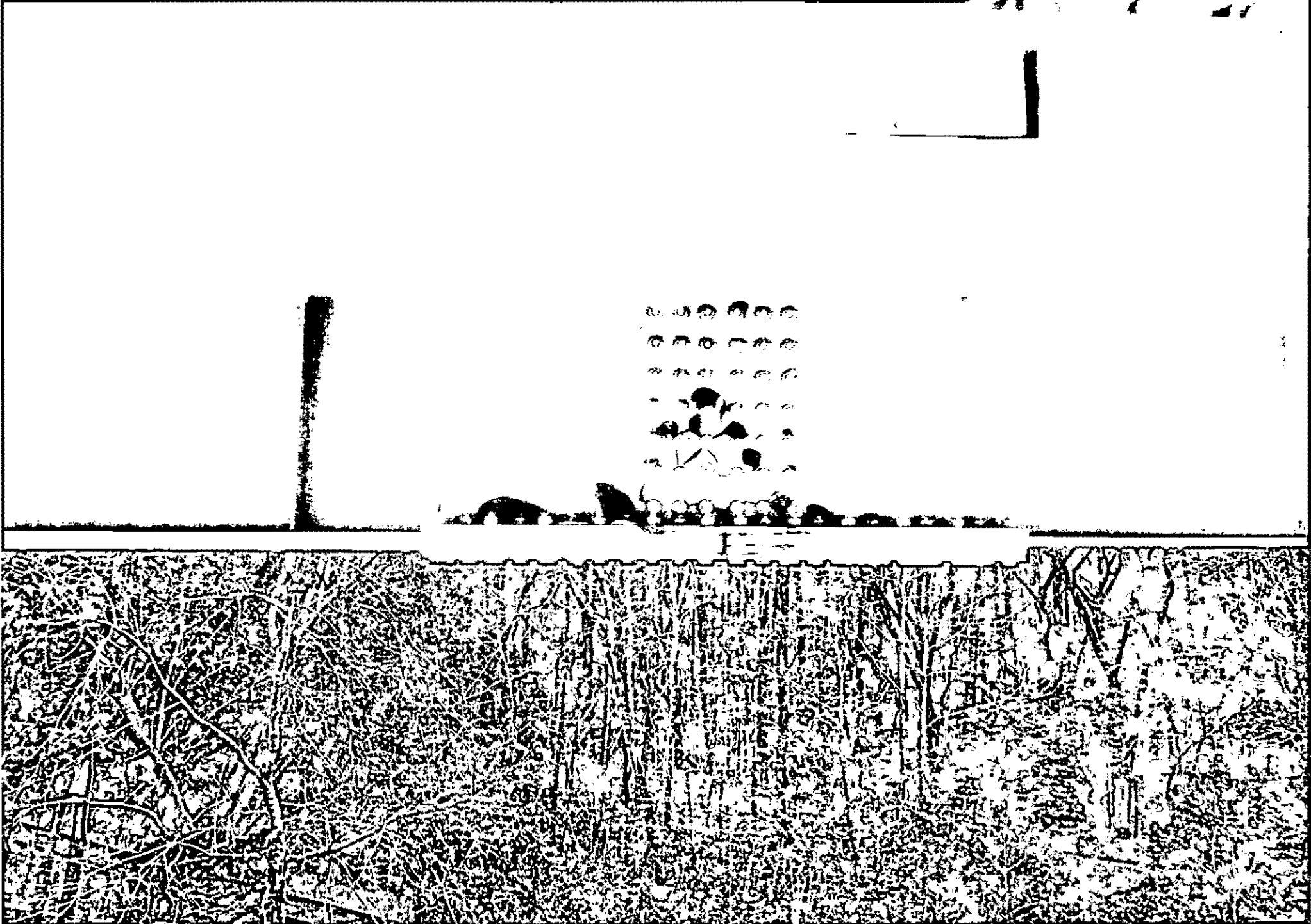


4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016
Minor/moderate rust forming on beams and bearings, typical.

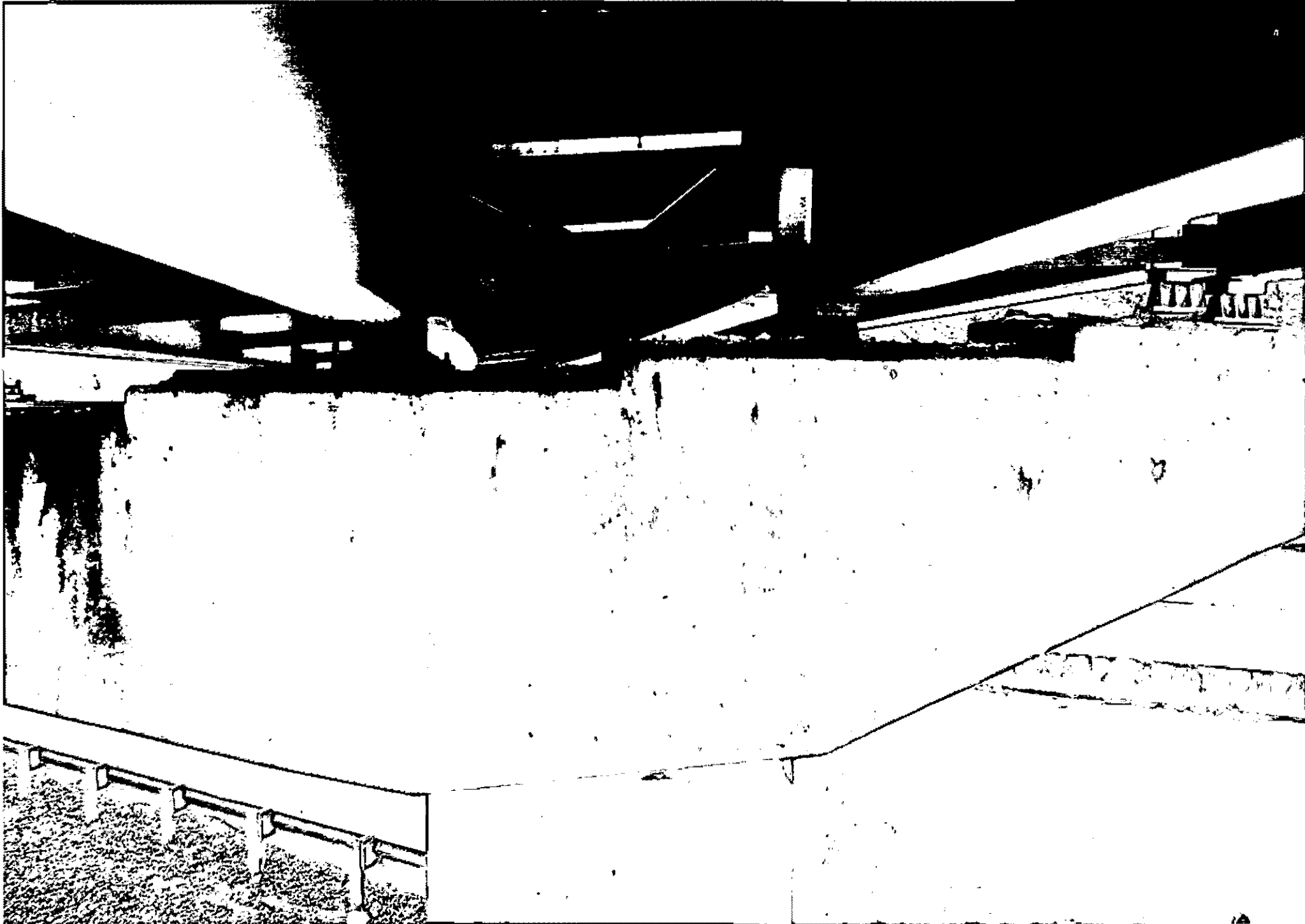


4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Paint peeling from splice plate, typical.

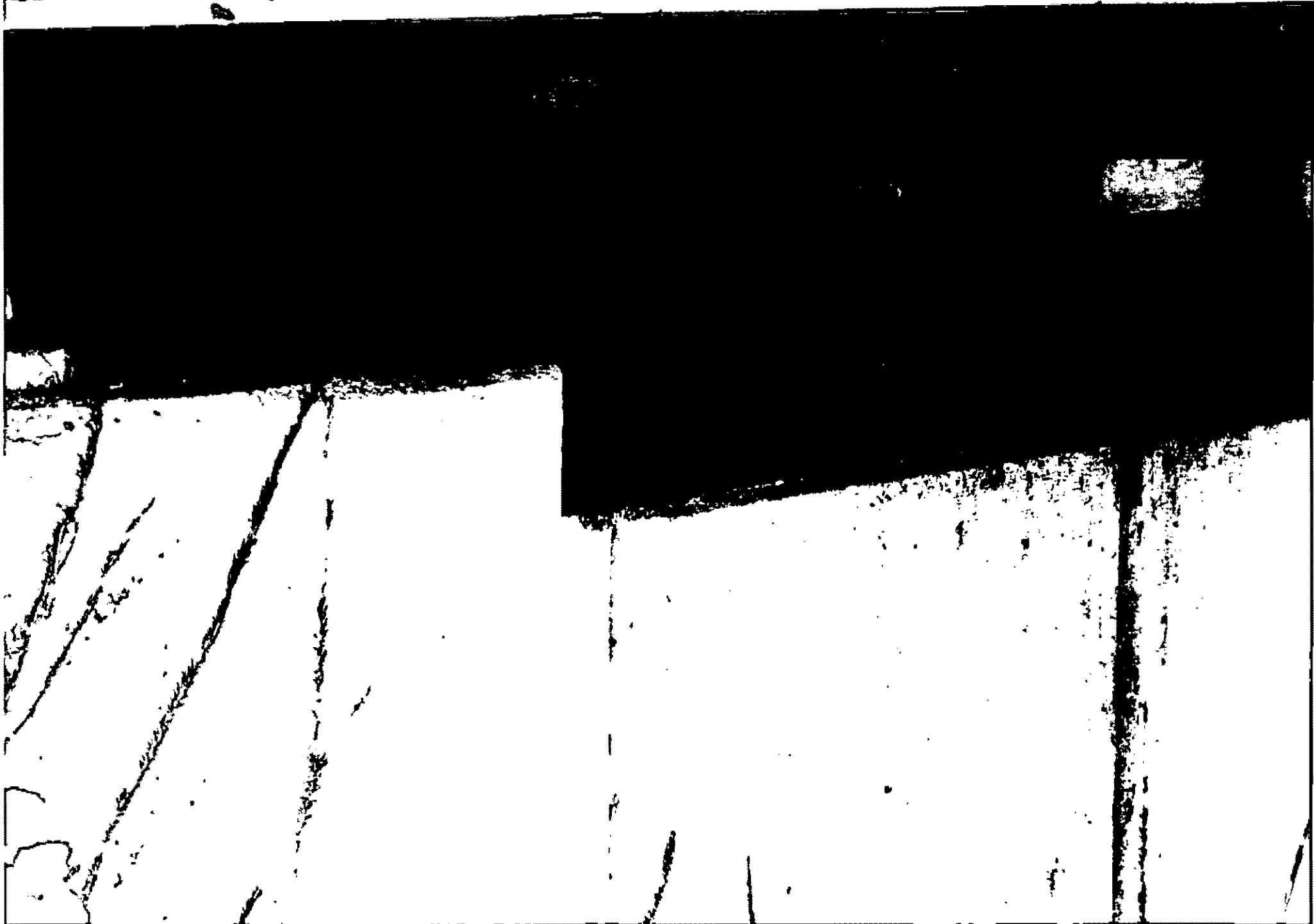


4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016
Cap bent 11 has minor spalls w/rust and hairline cracks, East side.



4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Dirt/debris on caps, typical.



4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Cap bent 11 has dirt/debris on cap.



4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Expansion material torn, loose, cracked, split and missing, typical.



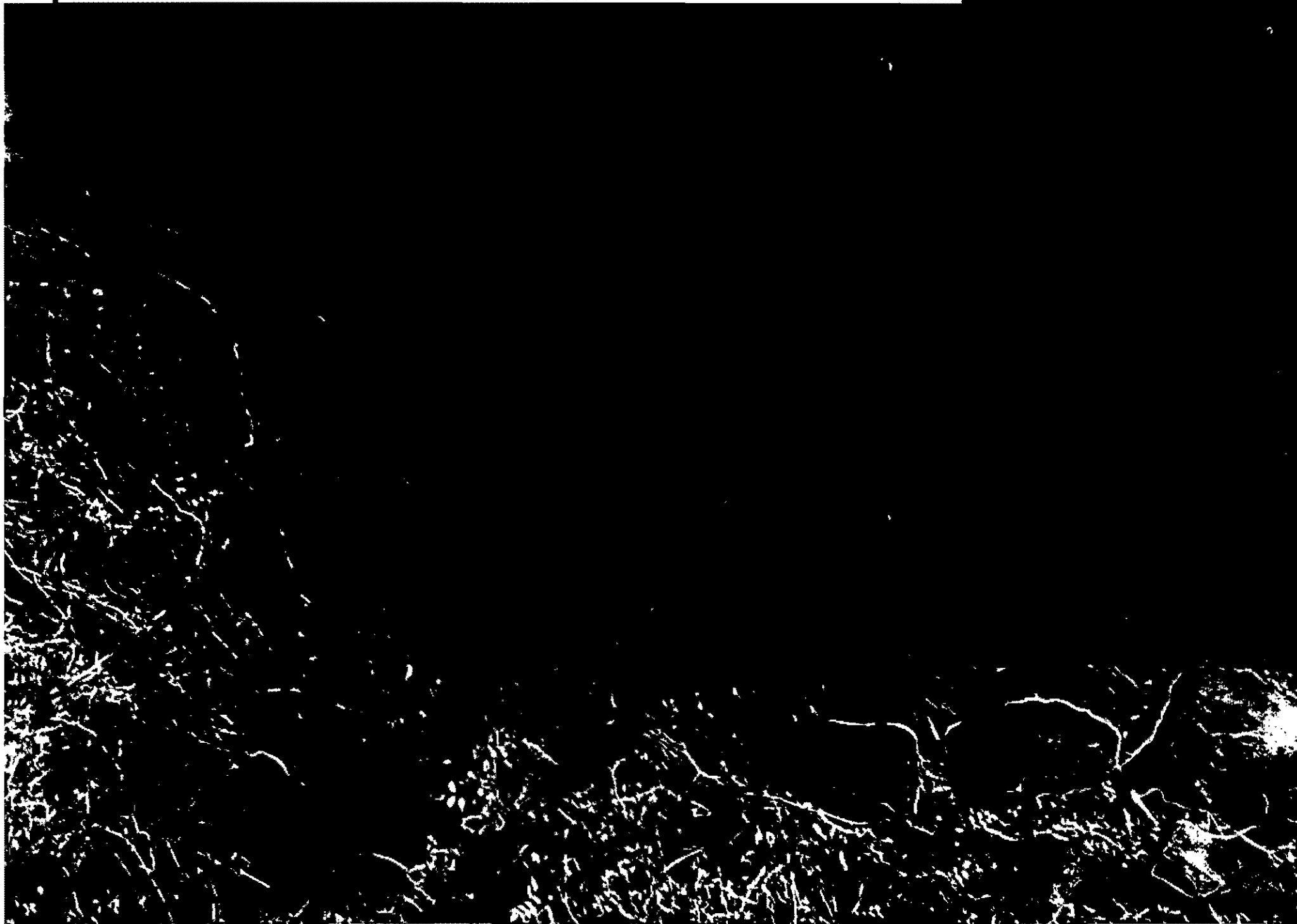
4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Large spalls on deck that has been patched, typical.



4010012620071 I-126 X-I-126, I-26 Saluda River 14 Dec 2016

Cap bent 1 has moderate erosion on fill.



Bridge Element Level Data

Bridge ID: 40-1-00126-2-00-71

14 Dec-2016

Percent Distribution by State

<u>Element</u>	<u>Quantity</u>	<u>Environment</u>	<u>Pct1</u>	<u>Pct2</u>	<u>Pct3</u>	<u>Pct4</u>	<u>Pct5</u>
12	78848	1	0	0	100	0	0
107	9948	1	0	100	0	0	0
205	17	1	0	100	0	0	0
215	62	1	0	100	0	0	0
234	525	1	0	100	0	0	0
301	62	1	0	100	0	0	0
302	62	1	0	100	0	0	0
304	93	1	0	100	0	0	0
310	4	1	0	50	50	0	0
311	52	1	0	100	0	0	0
313	8	1	0	100	0	0	0
321	2	1	0	100	0	0	0
331	4974	1	0	100	0	0	0
358	78848	1	99	1	0	0	0