

072002100200

THE OFFICE OF  
BRIDGE MAINTENANCE

## SCDOT BRIDGE INSPECTION FORM

(008) BRIDGE ID: **072002100200**  
 (005) ROUTE: BEAUFORT US 21  
 (006) CROSSING: HARBOR RIVER

(009) LOCATION: 12.5 MI SE BEAUFORT  
 (026) FUNCTIONAL CLASS: 03 *Thin File*

## GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1939		(043) MAIN ORIGINAL (A)	3 17 1	
(106) YEAR RECON	0		MAIN RECONST (B)		
(031) DESIGN LOAD	2		(044) APPR ORIGINAL (A)	4 02 1	<b>3 02 1</b>
(032) APPR RDWAY	38	<b>30</b>	APPR RECONST (B)		
(033) BRIDGE MEDIAN	0		(107) DECK STRUCT	1	
(034) SKEW	0		(108) WEAR SURF	1 8 8	
(035) FLARED	0		(045) # MAIN SPANS	1	
(36A) RAILINGS	0		(046) # APPR SPANS	67	
(36B) TRANSITIONS	0	<b>1</b>	(048) MAX SPAN LGTH	172	
(36C) APPR GUARD	1		(308) APPR SPAN LGTH	40	
(36D) APPR GUARD END	0	<b>1</b>	(049) STRUCT LENGTH	2851	
(041) TRAFFIC STATUS	A	<b>P</b>	(037) HISTORY	4	

## GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	1		(042) TYPE SERV; (A)-(B)	1 5	
(039) NAV VERT CLEAR	15		(028) LANES; ON(A) UND(B)	2 0	
(040) NAV HORZ CLEAR	60		(47A) HORZ CLEAR RIGHT	20	
(111) NAV PIER PROT	2	<b>3</b>	(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	0	
UNDERCLEARANCES	15 0		(47UB) HORZ CLEAR LEFT	0	
(10B) GREAT MIN RIGHT	99 99		(50B) SIDEWALK RIGHT	0	<b>3.4</b>
(10C) GREAT MIN LEFT	99 99		(50A) SIDEWALK LEFT	0	<b>0.7</b>
(54A) VERT CLEAR REF	N		(051) CURB TO CURB	20	
(54B) VERT CLEAR RIGHT	0 0		(052) DECK OUT-OUT	21	
(54C) VERT CLEAR LEFT	0 0		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	N		ABOVE DECK	15 0	
(55B) LAT CLEAR RIGHT	99.9	<b>0.</b>			
(55C) LAT CLEAR LEFT	0				

## CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	2	<b>4</b>	(58) DECK	5	
(064) OPERATING RATING	21	<b>26</b>	(59) SUPER STR	5	<b>4</b>
(065) INVENTORY RATING METHOD	2	<b>4</b>	(60) SUB STR	5	
(066) INVENTORY RATING	21	<b>26</b>	(061) CHANNEL	7	
(319) LAST PAINT DATE	2000		(062) CULV RET	N	

## CRITICAL INSPECTION DATA

	EXISTING	REVISED
(090) INSP DATE	<b>10/2012</b>	<b>11/2014</b>
(091) INSP FREQ	24	
(113) SCOUR CRITICAL	8	
	INTERVAL MTH YR	INTERVAL MTH YR
(93A) FRACTURE	Y24 <b>10/2012</b>	<b>Y 24 11/2014</b>
(93B) UNDERWATER	Y60 11/2010	
(93C) SPECIAL	N	

## APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	5	GEN
(068) DECK GEOM	2	GEN
(069) UNDERCLEAR	N	GEN
(070) BRIDGE POST	1	GEN
(071) WATER ADEQ	8	<b>6</b>
(072) APPR RDWAY	8	
(411) LOAD RATING ID	0	

925

M. J. J.

## **Bridge Element Group Textual Data**

**Bridge ID: 072002100200**

9

NOV - 2014

### **Abutments and/or Headwalls:**

[6] SAT – The southeast corner of Abutment 69, adjacent to the wingwall, exhibits a 2 ft. x 3 ft. x 1 ft. undermined and washed out area. Refer to Photo 1.

### **Bents and/or Piers:**

[6] SAT – Many piles exhibit delaminations and spalls some with exposed steel, and cracks with corrosion bleed out throughout the structure. Refer to Photo 2.

Some caps exhibit delaminations, and spalls some with exposed steel, and cracks with corrosion bleed out throughout the structure. Refer to Photo 3.

### **Bearings:**

[4] POOR – The connecting hardware of a few bearings exhibits section loss to 100%. Refer to Photo 4.

The bearings exhibit heavy corrosion, section loss, and corrosive pitting. Refer to Photo 5.

### **Girders/Floor Beams/Stringers and/or Beams:**

[4] POOR – The beams of the approach spans exhibit heavy corrosion, knife edging, section loss, resulting in reduced section near the ends of the beams throughout. Refer to Photos 6, 7, and 8.

A few stringers of the main span exhibit heavy corrosion and section loss resulting in reduced section near the beam ends. Refer to Photos 9 and 10.

### **Truss Members:**

[6] SAT – The top and bottom cords of both trusses exhibit isolated areas of minor surface corrosion.

### **Expansion Joints:**

[4] POOR – Pourable joint sealant exhibits significant adhesion loss and missing sections of joint sealant at all bents. Refer to Photo 11.

**Decks and/or Slabs:**

[5] Fair – Spans 9 and 31 exhibit failed patches and spalls with exposed steel to 1 ft. dia. x 2 in. deep in Lane 2. Refer to Photo 12.

The deck underside exhibits delaminations and spalls with exposed steel throughout the approach spans. Refer to Photo 13.

**Curbs:**

[7] GOOD

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

[6] SAT – Most bridge rail posts exhibits spalls to 9 in. x 8 in. x 4 in. with exposed steel primarily at the base. Refer to Photo 14.

The bridge railing exhibits isolated areas of impact damage and spalls with exposed steel to 32 in. x full width x 2 in. deep. Refer to Photo 15.

**Paint System(s):**

[4] Poor – The beams of the approach spans exhibit heavy corrosion throughout. Refer to Photo 16.

**Waterway and Scour:**

[7] GOOD

**Fender System:**

[4] POOR – There are missing wales throughout, heavy corrosion on connecting hardware, overall loose connections, resulting in the west and east fenders being extremely unstable. Refer to Photo 17.

**Roadway Alignment:**

[7] GOOD

**Traffic Signs:**

All signs were in place at the time of inspection.

**Encroachments:**

There is a 6 in. diameter abandoned waterline located on the left fascia, and an active 10 in. diameter waterline located on the right fascia.

**Miscellaneous Notes:**

The right approach guardrail, west side, approaching Abutment 1 is improperly attached to the first post and the second post is not attached to the rail.

The automatic transfer switch for the emergency generator was inoperable at the time of inspection.

**BRIDGE INSPECTION  
RIVER PROFILE**

COMMENTS:

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46:Right and Left=19.4ft.  
from the bottom chord of main span truss.

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

CROSSING: HARBOR RIVER

HORIZONTAL BLOCKAGE (%) \_\_\_\_\_ TO \_\_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_\_

Sheet 1 of 6

(St. Helena Is.)

0.5	Abut 1 (West)	0.9
4.7	Bent 2	4.8
5.6	Bent 3	5.6
6	Bent 4	6.1
7	Bent 5	6.9
7.7	Bent 6	7.9
7.8	Bent 7	8.4
7.7	Bent 8	8.4
7.8	Bent 9	8.8
7.9	Bent 10	9.1
8.3	Bent 11	9.1
8.9	Bent 12	9.4

TT / BH  
MEASUREMENT BY

11/9/2014  
DATE MEASURED

**BRIDGE INSPECTION  
RIVER PROFILE**

COMMENTS:

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46:Right and Left=19.4ft.  
from the bottom chord of main span truss.

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

CROSSING: HARBOR RIVER

HORIZONTAL BLOCKAGE (%) \_\_\_\_\_ TO \_\_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_\_

Sheet 2 of 6

9.4	Bent 13	9.4
9.4	Bent 14	9.3
9.6	Bent 15	9.5
11	Bent 16	11.0
10.9	Bent 17	11.1
11.0	Bent 18	11.3
11.2	Bent 19	11.8
11.8	Bent 20	12.0
12.4	Bent 21	12.6
11.7	Bent 22	12.1
12.5	Bent 23	13.0
12.3	Bent 24	13.5

TT / BH  
MEASUREMENT BY

11/9/2014  
DATE MEASURED

**BRIDGE INSPECTION  
RIVER PROFILE**

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

COMMENTS:

CROSSING: HARBOR RIVER

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46: Right and Left=19.4ft.  
from the bottom chord of main span truss.

HORIZONTAL BLOCKAGE (%) \_\_\_\_\_ TO \_\_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_\_

Sheet 3 of 6

12.9	Bent 25	13.4
12.9	Bent 26	13.4
13.2	Bent 27	13.6
13.7	Bent 28	14.6
13.7	Bent 29	16.2
17.2	Bent 30	18.1
18.0	Bent 31	18.1
18.4	Bent 32	18.8
20.8	Bent 33	20.4
30.3	Bent 34	30.0
41.9	Bent 35	39.9
47.0	Bent 36	46.1

TT / BH  
MEASUREMENT BY

11/9/2014  
DATE MEASURED

**BRIDGE INSPECTION  
RIVER PROFILE**

COMMENTS:

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46:Right and Left=19.4ft.  
from the bottom chord of main span truss.

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

CROSSING: HARBOR RIVER

HORIZONTAL BLOCKAGE (%) \_\_\_\_ TO \_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_

Sheet 4 of 6

50.8	Bent 37	49.2
52.7	Bent 38	51.8
54.0	Bent 39	53.3
52.5	Bent 40	53.1
51.9	Bent 41	53.1
55.3	Bent 42	55.4
56.9	Bent 43	56.8
59.5	Bent 44	58.3
47.9	Bent 45	57.6
51.6	Bent 46	52.9
(Main Span)		
50.0	Bent 47	51.3
57.5	Bent 48	56.3

TT / BH  
MEASUREMENT HY

11/9/2014  
DATE MEASURED

**BRIDGE INSPECTION  
RIVER PROFILE**

COMMENTS:

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46: Right and Left=19.4ft,  
from the bottom chord of main span truss.

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

CROSSING: HARBOR RIVER

HORIZONTAL BLOCKAGE (%) \_\_\_\_ TO \_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_

Sheet 5 of 6

59.5	Bent 49	58.3
53.5	Bent 50	53.9
51.3	Bent 51	52.3
50.0	Bent 52	49.4
47.7	Bent 53	47.7
50.0	Bent 54	47.3
48.0	Bent 55	47.7
44.4	Bent 56	42.1
39.1	Bent 57	39.4
34.6	Bent 58	35.5
30.1	Bent 59	29.9
24.2	Bent 60	24.7

TT / BH  
MEASUREMENT BY

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DATE MEASURED

**BRIDGE INSPECTION  
RIVER PROFILE**

COMMENTS:

Measurements were referenced to the top of the  
caps and are in feet.

Waterline was taken at Span 46: Right and Left=19.4ft.  
from the bottom chord of main span truss.

BRIDGE NUMBER: 072002100200

ROAD NUMBER: US-21

CROSSING: HARBOR RIVER

HORIZONTAL BLOCKAGE (%) \_\_\_\_ TO \_\_\_\_

VERTICAL BLOCKAGE (%) \_\_\_\_

Sheet 6 of 6

20.2	Bent 61	20.9
16.2	Bent 62	16.9
13.6	Bent 63	15.2
12.7	Bent 64	13.5
11.8	Bent 65	12.4
10.0	Bent 66	10.8
9.4	Bent 67	9.2
7.6	Bent 68	8.0
2.9	Abut. 69 (East) (Harbor Island)	2.7

TT / BH  
MEASUREMENT BY

11/9/2014  
DATE MEASURED

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
BRIDGE MANAGEMENT SYSTEM  
Bridge Inspection Addendum**

BRIDGE ID: 072002100200

DISTRICT: 06 Charleston

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INSPECTION  
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**Initial Findings**



**Abutments and/or Headwalls- Photo 1**

The southeast corner of Abutment 69, adjacent to the wingwall, exhibits a 2 ft. x 3 ft. x 1 ft. undermined and washed out area.

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**Initial Findings**



**Bents and/or Piers- Photo 2**

Many piles exhibit delaminations and spalls some with exposed steel, and cracks with corrosion bleed out throughout the structure (Pile 21-3, 6 ft. x 18 in. x 3 in. spall, delamination with exposed steel shown).

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**Initial Findings**



**Bents and/or Piers- Photo 3**

Some caps exhibit delaminations, and spalls some with exposed steel, and cracks with corrosion bleed out throughout the structure (Bent 59 between Piles 2 and 3, 4 ft. x 1 ft. x 3 in. spall with exposed steel shown).

**SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**BRIDGE MANAGEMENT SYSTEM**  
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**Initial Findings**



**Bearings- Photo 4**

The connecting hardware of a few bearings exhibits section loss to 100% (Bearing 21-4 at Bent 22 shown).

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**Initial Findings**



**Bearings- Photo 5**

The bearings exhibit heavy corrosion, section loss, and corrosive pitting (Bearing 42-3 at Bent 42 shown).

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**Initial Findings**



**Girders/Floor Beams/Stringers and/or Beams- Photo 6**

Typical of heavy corrosion in the bottom flange of the approach span beams (Beam 37-3 shown).

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**Initial Findings**



**Girders/Floor Beams/Stringers and/or Beams- Photo 7**

Typical of heavy corrosion in the web and top flange of the approach span beams (Beam 36-4 shown).

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**Initial Findings**



**Girders/Floor Beams/Stringers and/or Beams- Photo 8**

The beams of the approach spans exhibit heavy corrosion, knife edging, section loss, resulting in reduced section near the ends of the beams throughout (Beam 44-2 at Bent 44 shown).

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**Initial Findings**



**Girders/Floor Beams/Stringers and/or Beams- Photo 9**

A few stringers of the main span exhibit heavy corrosion and section loss near the beam ends. (bottom flange of Stringer 3 at Floor Beam 2 east face shown).

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**Initial Findings**



**Girders/Floor Beams/Stringers and/or Beams- Photo 10**

A few stringers of the main span exhibit heavy corrosion and section loss resulting in reduced section near the beam ends. (7 in. x 3 in. section loss in bottom flange of Stringer 46-9 at Floor Beam 46-2 shown).

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Bridge Inspection Addendum**

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**Initial Findings**



**Expansion Joints- Photo 11**

Pourable joint sealant exhibits significant adhesion loss and missing sections of joint sealant at all bents (Bent 39 shown).

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**Initial Findings**



**Decks and/or Slabs- Photo 12**

Spans 9 and 31 exhibit failed patches and spalls some with exposed steel to 1 ft. dia. x 2 in. deep in Lane 2 (Span 9 shown).

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**Initial Findings**



**Decks and/or Slabs- Photo 13**

The deck underside exhibits delaminations and spalls some with exposed steel throughout the approach spans (Bay 50-3, 4 ft. area x 4 ft. long x 1-1/2 in. deep with exposed steel near mid-span shown).

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**Initial Findings**



**Bridge Railing/Parapets and/or Median Barriers- Photo 14**

Most bridge rail posts exhibit spalls to 9 in. x 8 in. x 4 in. with exposed steel primarily at the base (Post 58-6 right shown).

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**Initial Findings**



**Bridge Railing/Parapets and/or Median Barriers- Photo 15**

The bridge railing exhibits isolated areas of impact damage and spalls with exposed steel to 32 in. x full width x 2 in. (Span 31 right rail, 2 ft. east of Bent 31 shown).

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**Initial Findings**



**Paint Systems- Photo 16**

Typical condition of the paint system of the approach spans steel beams (Beam 16-3 shown).

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**Initial Findings**



**Fender System- Photo 17**

There are missing wales throughout, heavy corrosion on connecting hardware, overall loose connections, resulting in the west and east fenders being extremely unstable (west fender shown).

SCDOT PONTIS BMS ELEMENT DATA FORM

STRUCTURE NO.: 072002100200  
 FACILITY CARRIED: US-21  
 CROSSING: Harbor River  
 INSPECTION DATE: 9-Nov-2014

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DECK: 5 SUPERSTRUCTURE: 4 SUBSTRUCTURE: 5  
 CULVERT: N

ELEMENT	ENVIRONMENT	TOTAL	PERCENT DISTRIBUTION BY STATE				
		QUANTITY	1	2	3	4	5
UNIT 0 - MAIN SPAN:							
12	4	3397	0	100	0	0	0
113	4	1521	0	90	0	10	0
121	4	338	0	100	0	0	0
126	4	252	0	100	0	0	0
152	4	203	0	99	0	1	0
162	4	52	0	100	0	0	0
205	4	16	0	100	0	0	0
210	4	24	100	0	0	0	0
234	4	46	0	100	0	0	0
330	4	338	0	100	0	0	0
399	4	43	100	0	0	0	0
540	4	4	0	100	0	0	0
541	4	1	0	100	0	0	0
542	4	2	0	50	50	0	0
543	4	1	0	100	0	0	0
544	4	1	0	100	0	0	0
545	4	1	0	0	100	0	0
546	4	1	0	100	0	0	0
560	4	2	0	100	0	0	0
563	4	10	70	30	0	0	0
570	4	1	100	0	0	0	0
571	4	1	100	0	0	0	0
572	4	1	0	0	100	0	0
574	4	1	100	0	0	0	0
580	4	1	100	0	0	0	0
581	4	1	100	0	0	0	0
583	4	1	0	100	0	0	0
590	4	2	0	100	0	0	0
591	4	2	0	100	0	0	0
592	4	2	100	0	0	0	0

# SCDOT PONTIS BMS ELEMENT DATA FORM

STRUCTURE NO.: 072002100200  
 FACILITY CARRIED: US-21  
 CROSSING: Harbor River  
 INSPECTION DATE: 9-Nov-2014

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DECK: 5 SUPERSTRUCTURE: 4 SUBSTRUCTURE: 5  
 CULVERT: N

ELEMENT	ENVIRONMENT	TOTAL	PERCENT DISTRIBUTION BY STATE				
		QUANTITY	1	2	3	4	5
<u>UNIT 1 - APPROACH SPANS:</u>							
12	4	53868	0	100	0	0	0
107	4	2557	0	0	0	100	0
205	4	325	0	80	20	0	0
215	4	63	100	0	0	0	0
234	4	1383	0	90	10	0	0
290 ✓	4	1	100	0	0	0	0
311	4	88	100	0	0	0	0
331	4	5360	30	0	70	0	0
357	4	1	0	0	100	0	0
363 ✓	4	1	0	100	0	0	0
389 ✓	4	1	0	0	100	0	0