

IDENTIFICATION				Sufficiency Rating = 24.4	
(1) State Name - SOUTH CAROLINA	Code	454		Functionally Obsolete = YES	
(8) Structure Number	#	0000840004100100		Structurally Deficient = YES	
(5) Inventory Route (On/Under)	On -	141000410			
(2) State Highway Department District		6			
(3) County Code	15		(4) Place Code		
(6) Features Intersected	WANDO RIVER				
(7) Facility Carried	SC 41				
(9) Location	13MI NE CHAS				
(11) Milepoint		0.310			
(12) Base Highway Network -NOT PART OF NET	Code	0			
(13) LRS Inventory Route & Subroute					
(16) Latitude	32 Degrees 55 Minutes	24.00 Seconds			
(17) Longitude	79 Degrees 49 Minutes	24.00 Seconds			
(98) Border Bridge State Code	% SHARE	%			
(99) Border Bridge Structure No.	#				
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) Structure Type Main: MATERIAL STEEL				(112) NBIS Bridge Length -	YES
Type - TRUSS-THRU	Code	310		(104) Highway System - NOT NHS	0
(44) Structure Type Appr: MATERIAL STEEL				(26) Functional Class - URBAN-MIN ART	14
Type - STRINGER/MULTI-BEAM OR GIRD	Code	302		(100) Strahnet Highway - NOT STRAH HWY	0
(45) Number of Spans in Main Unit		1		(101) Parallel Structure - NONE EXIST	N
(46) Number of Approach Spans		38		(102) Direction of Traffic- 2-WAY TRAFFIC	2
(107) Deck Structure Type -CONCRETE CAST-IN-PLC	Code	1		(103) Temporary Structure -	
(108) Wearing Surface / Protective System:				(105) Federal Lands Highways N/A	0
A) Type of Wearing Surface - MONO CONCRETE	Code	1		(110) Designated National Network -NO	0
B) Type of Membrane - UNKNOWN	Code	8		(20) Toll - ON FREE ROAD	3
C) Type of Deck Protection - UNKNOWN	Code	8		(21) Maintain - SCDOT	1
				(22) Owner - SCDOT	1
				(37) Historical Significance -NOT ELIGIBLE	5
AGE AND SERVICE				CONDITION	
(27) Year Built		1939		(58) Deck - SATISFACTORY	6
(106) Year Reconstructed				(59) Superstructure - POOR	4
(42) Type of Service On -HIGHWAY				(60) Substructure - POOR	4
Under - WATERWAY	Code	5		(61) Channel and Channel Protection-BANKS PROT	8
(28) Lanes: On Structure = 2	Under Structure =	0		(62) Culverts - NOT APPLICABLE	N
(29) Average Daily Traffic		3400			
(30) Year of ADT	2007	(109) Truck ADT	06 %	LOAD RATING AND POSTING	
(19) Bypass, Detour Length		34 MI		(31) Design Load - HS 15	3
				(64) Operating Rating - AS	34
				(66) Inventory Rating - AS	22
				(70) Bridge Posting - EQUAL/ABOVE LEGAL LOADS	5
				(41) Structure Open, Posted or Closed -	A
				Description -OPEN, NO RESTRICT	
GEOMETRIC DATA				APPRAISAL	
(48) Length of Maximum Span		112 FT		(67) Structure Evaluation - MEETS MIN TOLER LIMITS	4
(49) Structure Length		1690 FT		(68) Deck Geometry	2
(50) Curb or Sidewalk: Left 0.8 FT Right 0.8 FT				(69) Underclearances, Vertical and Horizontal	N
(51) Bridge Roadway Width Curb to Curb		22 FT		(71) Waterway Adequacy	6
(52) Deck Width Out to Out		23.5 FT		(72) Approach Roadway Alignment	8
(32) Approach Roadway Width (W/Shoulders)		36 FT		(36) Traffic Safety Features	0010
(33) Bridge Median -NONE	Code	0		(113) Scour Critical Bridges- CALC SCOUR ABOVE FOO	8
(34) Skew 0 Deg (35) Structure Flared		NO			
(10) Inventory Route Min Vert Clear	15 FT	2 IN		PROPOSED IMPROVEMENTS	
(47) Inventory Route Total Horz Clear		22.0 FT		(75) Type of Work -REPLACE/LOAD CAPACITY	Code 311
(53) Min Vert Clear Over Bridge Roadway	15 FT	2 IN		(76) Length of Structure Improvement	1690.0 FT
(54) Min Vert Underclear Ref -NOT HWY OR R	0 FT	0 IN		(94) Bridge Improvement Cost	\$5,199,000
(55) Min Lat Underclear Right Ref -NOT HWY OR RXR	99.9 FT			(95) Roadway Improvement Costs	\$1,300,000
(56) Min Lat Underclear Left	0.0 FT			(96) Total Project Cost	\$7,799,000
				(97) Year of Improvement Cost Estimate	2008
				(114) Future ADT	2958
				(115) Year of Future ADT	2027
NAVIGATION DATA				INSPECTIONS	
(38) Navigation Control -NAV CTRL ON WATERWAY	Code	1		(90) Inspection Date	12/2007
(111) Pier Protection -IN PLACE/FUNCTIONING	Code	2		(91) Frequency	24 Mo
(39) Navigation Vertical Clearance		6 FT		(92) Critical Feature Inspection:	(93) CFI Date
(116) Vert-Lift Bridge Nav Min Vert Clear		FT		A) Fracture Crit Detail	YES Mo 24 A) 02/01/2006
(40) Navigation Horizontal Clearance		62 FT		B) Underwater Insp	YES Mo 48 B) 01/01/2006
				C) Other Special Insp	NO Mo C)

SCDOT BRIDGE INSPECTION FORM

(008) BRIDGE ID: 0840004100100
 (005) ROUTE: BERKELEY SC 41
 (006) CROSSING: WANDO RIVER

(009) LOCATION: 13MI NE CHAS
 (026) FUNCTIONAL CLASS: 14

GENERAL BRIDGE DATA

	EXISTING	REVISED	TYPE STRUCTURE	EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1939	_____	(043) MAIN ORIGINAL (A)	3 10 1	___
(106) YEAR RECON	0	_____	MAIN RECONST (B)		___
(031) DESIGN LOAD	3	_____	(044) APPR ORIGINAL (A)	3 02 1	___
(032) APPR RDWAY	36	_____	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	38	___
(36B) TRANSITIONS	0	_____	(048) MAX SPAN LGTH	112	___
(36C) APPR GUARD	1	_____	(308) APPR SPAN LGTH	0	___
(36D) APPR GUARD END	0	_____	(049) STRUCT LENGTH	1690	___
(041) TRAFFIC STATUS	A	_____	(037) HISTORY	5	___

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	1	_____	(042) TYPE SERV; (A)-(B)	1 5	___
(039) NAV VERT CLEAR	6	_____	(028) LANES; ON(A) UND(B)	2 0	___
(040) NAV HORZ CLEAR	62	_____	(47A) HORZ CLEAR RIGHT	22	___
(111) NAV PIER PROT	2	_____	(47B) HORZ CLEAR LEFT	0	___
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	0	___
UNDERCLEARANCES	15 2	___	(47UB) HORZ CLEAR LEFT	0	___
(10B) GREAT MIN RIGHT	99 99	___	(50B) SIDEWALK RIGHT	0.8	___
(10C) GREAT MIN LEFT	99 99	___	(50A) SIDEWALK LEFT	0.8	___
(54A) VERT CLEAR REF	N	_____	(051) CURB TO CURB	22	___
(54B) VERT CLEAR RIGHT	0 0	___	(052) DECK OUT-OUT	23.5	___
(54C) VERT CLEAR LEFT	0 0	___	(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	N	_____	ABOVE DECK	15 2	___
(55B) LAT CLEAR RIGHT	99.9	___			___
(55C) LAT CLEAR LEFT	0	___			___

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	2	_____	(58) DECK	5	___
(064) OPERATING RATING	34	_____	(59) SUPER STR	4	___
(065) INVENTORY RATING METHOD	2	_____	(60) SUB STR	4	___
(066) INVENTORY RATING	22	_____	(061) CHANNEL	8	___
(319) LAST PAINT DATE	2003	_____	(062) CULV RET	N	___

CRITICAL INSPECTION DATA

	EXISTING	REVISED		EXISTING	REVISED
(090) INSP DATE	06/2010	_____	(067) STRUCTURE	4	GEN
(091) INSP FREQ	24	_____	(068) DECK GEOM	2	GEN
(113) SCOUR CRITICAL	8	_____	(069) UNDERCLEAR	N	GEN
	INTERVAL MTH YR	INTERVAL MTH YR	(070) BRIDGE POST	5	GEN
(93A) FRACTURE	Y24 02/2010	___	(071) WATER ADEQ	6	___
(93B) UNDERWATER	Y48 01/2006	___	(072) APPR RDWAY	8	___
(93C) SPECIAL	N	___	(411) LOAD RATING ID	84035	___

APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	4	GEN
(068) DECK GEOM	2	GEN
(069) UNDERCLEAR	N	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	6	___
(072) APPR RDWAY	8	___
(411) LOAD RATING ID	84035	___

Bridge Element Group Textual Data

Bridge ID: 08-4-00041-0-01-00

8 Jun-2010

Abutments and/or Headwalls:

Bents and/or Piers:

4 POOR, 18" R.C. PILING (BITUMASTIC COATED) ON APPR. W/RC CAPS BTS. 28 & 29-2 NEW PILES W/RC CAPS [4]POOR-4 REST PIERS & PIVOT PIER ON MAIN SPAN ALL RC CAPS & REST PIERS HAVE SEVERE MAP CRACKING THRU OUT W/RUST;SADDLE UNDER BEAM 3 @BT.6. PIERS HAVING THE MOST SEVERE CRACKING ALONG W/LARGE SPALLS W/REBAR EXPOSED.
N/A

Bearings:

[5]FAIR- STEEL EXPANSION;VIRTUALLY ALL NUTS ON ANCHOR STUDS HAVE 50-100% SECTION LOSS)

Girders/Floor Beams/Stringers and/or Beams:

[5]FAIR- 4 - 24" STEEL BEAMS W/ 8" FLANGES (ALL BEAMS HAVE 30-100% SECTION LOSS IN THE FLANGE & WEBS @ BEAM ENDS; BT.4 BEAM 4 SPAN 4 HAS SADDLE ATTACHED TO PIER DUE TO SECTION LOSS ON WEB & FLANGE;SPAN 10 BT.10 BEAM 1 HAS SADDLE IN PLACE

Truss Members:

[5]FAIR-MOD. COLLISION DAMAGE ON SWAY BRACING,END PORTALS @ EACH END.ALL STEEL HAS 30-100% SECT. LOSS @ CONN. BOTTOM CHORD OF UPSTREAM SIDE HAS COLL. DAMAGE WITH BOTTOM FLANGE 4" OUT OF PLUMB. END POST OF SE CORNER HAS 100% SEC. LOSS 4"X6" AT BOTT. CORD,END POST OF SW CORNER HAS 2 CRACKS AT BOTT. CORD(4" AND 2" LONG)

Expansion Joints:

[6]SAT-ASPHALTIC JOINT FILLER

Decks and/or Slabs:

[5]FAIR- R.C. DECK; (MODERATE TO HEAVY TRANSVERSE AND LONGITUDINAL DECK CRACKING WITH EFFLORESCENCE ON UNDERSIDE, JOINTS HAVE MINOR SPALLS; DIAPHRAGMS HAVE HEAVY SPALLING THROUGHOUT W/REBAR EXPOSED);

Curbs:

[6] SAT.- R.C. SIDEWALK W/ R.C. CURB (HEAVY CRACKING & SPALLING THRU OUT UNDERSIDE W/REBAR EXPOSED)

Bridge Railing/Parapets and/or Median Barriers:

[7]GOOD-R.C. BRIDGE RAIL
[7]GOOD-T.T. POST WITH GALV. RAIL

Paint System(s):

[7]GOOD-ALL STEEL REPAINTED IN 2003

Waterway and Scour:

[7]GOOD
NONE

Fender System:

[4]POOR-ALL TIMBER FINDER SYSTEM PILES HAVE 30-75% SECTION LOSS

Roadway Alignment:

[7]GOOD
[7]GOOD

Traffic Signs:

ALL BRIDGE END MARKERS AND CLR. SIGNS ARE IN PLACE

Encroachments:

[5]FAIR- VARIOUS UTILITY CABLES ON LEFT AND RIGHT SIDES; SPAN 6 HAS A 1" PIPE IN THE WATER; FLOOD GAUGE ATTACHED TO BT.16 RIGHT SIDE

Miscellaneous Notes:

- 1C)REPAIR FENDER SYSTEM
- 2C)REMOVE THE UTILITY FROM THE WATER ON SPAN 6



THE OFFICE OF
BRIDGE MAINTENANCE

DISTRICT SIX
BRIDGE INSPECTION TEAM

BRIDGE INSPECTION

STREAM / GROUND PROFILE

COMMENTS: To TOP of Water(Upstream)=

Taken Midstream @ Bent=

BRIDGE NUMBER: 084 00041 00100

ROAD NUMBER: SL-41

CROSSING: WANDU RIVER

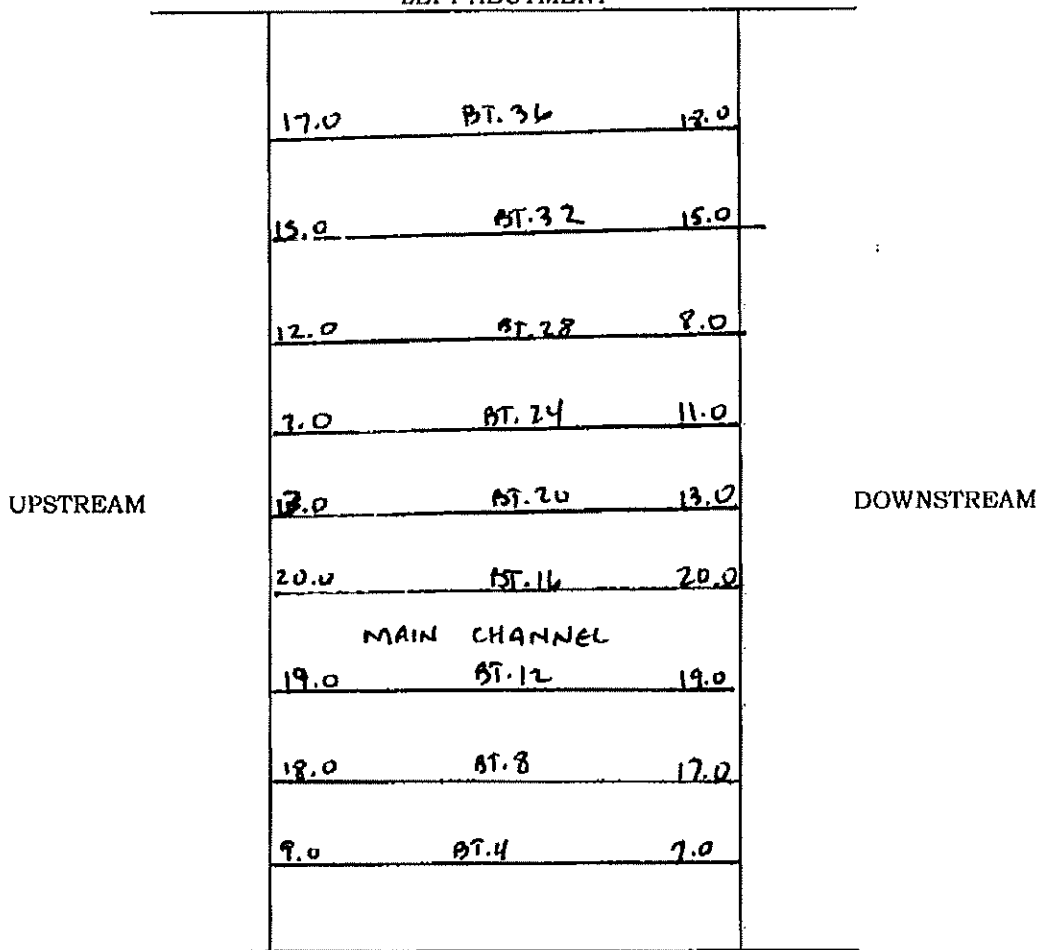
TOP OF WATER TO TOP OF PARAPET, CURB, DECK

WATER PROFILE TAKEN WITH
BOAT

HORIZONTAL BLOCKAGE (%) TO

VERTICAL BLOCKAGE (%)

NORTH / SOUTH / EAST / WEST
LEFT ABUTMENT



RIGHT ABUTMENT
NORTH / SOUTH / EAST / WEST

RD, E3, CF, SL
MEASUREMENT BY

8 JUN-2010
DATE MEASURED

9:30
TIME

PARAPET
MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE
DECK

**BRIDGE INSPECTION
STREAM/GROUND
PROFILE**

COMMENTS: To TOP of Water(Upstream)= _____

Taken Midstream @ Bent= _____

Water Profile Done By Bent

Bridge Number: 0840004100100

Road Number: 5641

Crossing: WANDO RIVER

Top of Water TO Top of Parapet, Curb, Deck

NORTH / SOUTH / ~~EAST~~ / WEST

UPSTREAM

DOWNSTREAM

<u>12.2</u>	<u>BT. 20</u>	<u>10.9</u>
<u>14.9</u>	<u>BT. 20</u>	<u>13.9</u>
<u>18.6</u>	<u>BT. 18</u>	<u>19.0</u>
<u>19.6</u>	<u>BT. 14</u>	<u>20.4</u>
<u>19.5</u>	<u>BT. 12</u>	<u>18.8</u>
<u>13.1</u>	<u>BT. 8</u>	<u>13.1</u>

NORTH / SOUTH / EAST / ~~WEST~~

RDCF
MEASUREMENT BY

4 DEC-2007
DATE MEASURED

3:06
TIME

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE

PARAPET
DECK