



# B

## Appendix B - Structure Inventory and Appraisal Report

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IDENTIFICATION			
(1) State Name - SOUTH CAROLINA	Code 454		
(8) Structure Number	# 0000720002100200		
(5) Inventory Route (On/Under)	On - 121000210		
(2) State Highway Department District	6		
(3) County Code 13	(4) Place Code		
(6) Features Intersected HARBOR RIVER			
(7) Facility Carried US 21			
(9) Location 12.5 MI SE BEAUFORT			
(11) Milepoint	2.100		
(12) Base Highway Network -PART OF NET	Code 1		
(13) LRS Inventory Route & Subroute	00US00021000		
(16) Latitude 32 Degrees 24 Minutes 15.30 Seconds			
(17) Longitude 80 Degrees 27 Minutes 10.13 Seconds			
(98) Border Bridge State Code	% SHARE %		
(99) Border Bridge Structure No.	#		
STRUCTURE TYPE AND MATERIAL			
(43) Structure Type Main: MATERIAL -STEEL			
Type - MOVABLE-SWING	Code 317		
(44) Structure Type Appr: MATERIAL -STEEL			
Type - STRINGER/MULTI-BEAM OR GIRD	Code 302		
(45) Number of Spans in Main Unit	1		
(46) Number of Approach Spans	67		
(107) Deck Structure Type -CONCRETE CAST-IN-PLC	Code 1		
(108) Wearing Surface / Protective System:			
A) Type of Wearing Surface - MONO CONCRETE	Code 1		
B) Type of Membrane - UNKNOWN	Code 8		
C) Type of Deck Protection - UNKNOWN	Code 8		
AGE AND SERVICE			
(27) Year Built	1939		
(106) Year Reconstructed			
(42) Type of Service On -HIGHWAY			
Under - WATERWAY	Code 5		
(28) Lanes: On Structure = 2 Under Structure = 0			
(29) Average Daily Traffic	4100		
(30) Year of ADT 2015 (109) Truck ADT	05 %		
(19) Bypass, Detour Length	0 MI		
GEOMETRIC DATA			
(48) Length of Maximum Span	172 FT		
(49) Structure Length	2851 FT		
(50) Curb or Sidewalk: Left 0.7 FT Right 3.4 FT			
(51) Bridge Roadway Width Curb to Curb	20 FT		
(52) Deck Width Out to Out	21.0 FT		
(32) Approach Roadway Width (W/Shoulders)	30 FT		
(33) Bridge Median -NONE	Code 0		
(34) Skew 0 Deg (35) Structure Flared	NO		
(10) Inventory Route Min Vert Clear	15 FT 0 IN		
(47) Inventory Route Total Horz Clear	20.0 FT		
(53) Min Vert Clear Over Bridge Roadway	15 FT 0 IN		
(54) Min Vert Underclear Ref - NOT HWY OR RX	0 FT 0 IN		
(55) Min Lat Underclear Right Ref -NOT HWY OR RXR	0.0 FT		
(56) Min Lat Underclear Left	0.0 FT		
NAVIGATION DATA			
(38) Navigation Control -NAV CTRL ON WATERWAY	Code 1		
(111) Pier Protection - IN PLACE/FUNCTIONING	Code 2		
(39) Navigation Vertical Clearance	15 FT		
(116) Vert-Lift Bridge Nav Min Vert Clear	FT		
(40) Navigation Horizontal Clearance	60 FT		
		Sufficiency Rating = 44.2	
		Functionally Obsolete = YES	
		Structurally Deficient = YES	
		CLASSIFICATION	Code
		(112) NBIS Bridge Length -	YES
		(104) Highway System - NOT NHS	0
		(26) Functional Class - RURAL-MIN ART	03
		(100) Strahnet Highway - NOT STRAH HWY	0
		(101) Parallel Structure - NONE EXIST	N
		(102) Direction of Traffic - 2-WAY TRAFFIC	2
		(103) Temporary Structure -	
		(105) Federal Lands Highways -N/A	0
		(110) Designated National Network -NO	0
		(20) Toll - ON FREE ROAD	3
		(21) Maintain - SCDOT	1
		(22) Owner - SCDOT	1
		(37) Historical Significance - ELIGIBLE FOR REG	2
		CONDITION	Code
		(58) Deck - FAIR	5
		(59) Superstructure - POOR	4
		(60) Substructure - FAIR	5
		(61) Channel and Channel Protection -BNK PRT REPAIR	7
		(62) Culverts - NOT APPLICABLE	N
		LOAD RATING AND POSTING	Code
		(31) Design Load - H 15	2
		(64) Operating Rating - LOAD TESTING	26
		(66) Inventory Rating - LOAD TESTING	26
		(70) Bridge Posting - 10.0-19.9% BELOW	3
		(41) Structure Open, Posted or Closed - Description -POSTED FOR LOAD	P
		APPRAISAL	Code
		(67) Structure Evaluation - MEETS MIN TOLER LIMITS	4
		(68) Deck Geometry	2
		(69) Underclearances, Vertical and Horizontal	N
		(71) Waterway Adequacy	8
		(72) Approach Roadway Alignment	8
		(36) Traffic Safety Features	0111
		(113) Scour Critical Bridges - CALC SCOUR ABOVE FOOT	8
		PROPOSED IMPROVEMENTS	
		(75) Type of Work - REPLACE/LOAD CAPACITY	Code 311
		(76) Length of Structure Improvement	2851.0 FT
		(94) Bridge Improvement Cost	\$9,512,000
		(95) Roadway Improvement Costs	\$2,378,000
		(96) Total Project Cost	\$14,268,000
		(97) Year of Improvement Cost Estimate	2016
		(114) Future ADT	6519
		(115) Year of Future ADT	2035
		INSPECTIONS	
		(90) Inspection Date 11/2014 (91)Frequency 24 Mo	
		(92) Critical Feature Inspection: (93) CFI Date	
		A) Fracture Crit Detail YES Mo 24 A) 11/01/2014	
		B) Underwater Insp YES Mo 60 B) 01/01/2014	
		C) Other Special Insp YES Mo 24 C) 05/01/2014	