



Request for Proposal (RFP) Amendment Notification # 1

NOTICE TO ALL CONSULTING ENGINEERING FIRMS

Solicitation Number S-221-18:

Project 1: US 1 Bridge Replacement over Big Horse Creek in Aiken County

Project 2: US 1 Bridge Replacement over Shaws Creek in Aiken County

SIA Report Attached Below

IDENTIFICATION			
(1) State Name - SOUTH CAROLINA	Code 454	Sufficiency Rating = 61.2	
(8) Structure Number # 0000220000100600	Asset ID 1663	Functionally Obsolete = NO	
(5) Inventory Route (On/Under)	On - 121000010	Structurally Deficient = YES	
(2) State Highway Department District	7		
(3) County Code 3	(4) Place Code		
(6) Features Intersected BIG HORSE CREEK			
(7) Facility Carried US 1			
(9) Location GRANITVILLE			
(11) Milepoint	10.083		
(12) Base Highway Network -PART OF NET	Code 1		
(13) LRS Inventory Route & Subroute	00US00001000		
(16) Latitude 33 Degrees 33 Minutes	11.53 Seconds		
(17) Longitude 81 Degrees 48 Minutes	54.37 Seconds		
(98) Border Bridge State Code	% SHARE %		
(99) Border Bridge Structure No. #			
STRUCTURE TYPE AND MATERIAL			
(43) Structure Type Main: MATERIAL -CONCRETE			
Type - 4	Code 104		
(44) Structure Type Appr: MATERIAL -OTHER OR N/A			
Type - OTHER OR N/A	Code 000		
(45) Number of Spans in Main Unit	8		
(46) Number of Approach Spans	0		
(107) Deck Structure Type -CONCRETE CAST-IN-PLC	Code 1		
(108) Wearing Surface / Protective System:			
A) Type of Wearing Surface - BITUMINOUS	Code 6		
B) Type of Membrane - UNKNOWN	Code 8		
C) Type of Deck Protection - UNKNOWN	Code 8		
AGE AND SERVICE			
(27) Year Built	1950		
(106) Year Reconstructed			
(42) Type of Service On -HIGHWAY			
Under - WATERWAY	Code 5		
(28) Lanes: On Structure = 4	Under Structure = 0		
(29) Average Daily Traffic	21500		
(30) Year of ADT 2016	(109) Truck ADT 04 %		
(19) Bypass, Detour Length	4 MI		
GEOMETRIC DATA			
(48) Length of Maximum Span	30 FT		
(49) Structure Length	242 FT		
(50) Curb or Sidewalk: Left 2.6 FT	Right 2.6 FT		
(51) Bridge Roadway Width Curb to Curb	58 FT		
(52) Deck Width Out to Out	65.0 FT		
(32) Approach Roadway Width (W/Shoulders)	58 FT		
(33) Bridge Median -NONE	Code 0		
(34) Skew 45 Deg	(35) Structure Flared NO		
(10) Inventory Route Min Vert Clear	99 FT 99 IN		
(47) Inventory Route Total Horz Clear	58.0 FT		
(53) Min Vert Clear Over Bridge Roadway	99 FT 99 IN		
(54) Min Vert Underclear Ref - NOT HWY OR RX	0 FT 0 IN		
(55) Min Lat Underclear Right Ref -NOT HWY OR RXR	99.9 FT		
(56) Min Lat Underclear Left	0.0 FT		
NAVIGATION DATA			
(38) Navigation Control -NONE	Code 0		
(111) Pier Protection -	Code		
(39) Navigation Vertical Clearance	FT		
(116) Vert-Lift Bridge Nav Min Vert Clear	FT		
(40) Navigation Horizontal Clearance	FT		
CLASSIFICATION			
(112) NBIS Bridge Length -	YES		
(104) Highway System - NHS	1		
(26) Functional Class - URBAN-PRIN ART-OTH	13		
(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 -YES	1		
(20) Toll - ON FREE ROAD	3		
(21) Maintain - SCDOT	1		
(22) Owner - SCDOT	1		
(37) Historical Significance -NOT ELIGIBLE	5		
CONDITION			
(58) Deck - SATISFACTORY	6		
(59) Superstructure - POOR	4		
(60) Substructure - GOOD	7		
(61) Channel and Channel Protection -BNK PRT ERD	5		
(62) Culverts - NOT APPLICABLE	N		
LOAD RATING AND POSTING			
(31) Design Load - HS 20	5		
(64) Operating Rating - LF	70		
(66) Inventory Rating - LF	42		
(70) Bridge Posting - EQUAL/ABOVE LEGAL LOADS	5		
(41) Structure Open, Posted or Closed -	A		
Description - OPEN, NO RESTRICT			
APPRAISAL			
(67) Structure Evaluation - MEETS MIN TOLER LIMITS	4		
(68) Deck Geometry	5		
(69) Underclearances, Vertical and Horizontal	N		
(71) Waterway Adequacy	6		
(72) Approach Roadway Alignment	5		
(36) Traffic Safety Features	1011		
(113) Scour Critical Bridges - SCOUR WITHIN LIMITS	5		
PROPOSED IMPROVEMENTS			
(75) Type of Work - REHAB/DETERIORATION	Code 351		
(76) Length of Structure Improvement	275.7 FT		
(94) Bridge Improvement Cost	\$409,000		
(95) Roadway Improvement Costs	\$20,000		
(96) Total Project Cost	\$450,000		
(97) Year of Improvement Cost Estimate	2017		
(114) Future ADT	23650		
(115) Year of Future ADT	2036		
INSPECTIONS			
(90) Inspection Date 03/2016	(91) Frequency 24 Mo		
(92) Critical Feature Inspection:	(93) CFI Date		
A) Fracture Crit Detail NO	Mo A)		
B) Underwater Insp NO	Mo B)		
C) Other Special Insp YES	Mo 24 C) 06/01/2016		

IDENTIFICATION			
(1) State Name - SOUTH CAROLINA	Code 454	Sufficiency Rating = 68.3	
(8) Structure Number # 0000220000101000	Asset ID 1987	Functionally Obsolete = NO	
(5) Inventory Route (On/Under)	On - 121000010	Structurally Deficient = YES	
(2) State Highway Department District	7		
(3) County Code 3	(4) Place Code		
(6) Features Intersected SHAWS CREEK			
(7) Facility Carried US 1			
(9) Location 3 MI N OF AIKEN			
(11) Milepoint	19.645		
(12) Base Highway Network -PART OF NET	Code 1		
(13) LRS Inventory Route & Subroute	00US00001000		
(16) Latitude 33 Degrees 36 Minutes	19.35 Seconds		
(17) Longitude 81 Degrees 41 Minutes	6.12 Seconds		
(98) Border Bridge State Code	% SHARE %		
(99) Border Bridge Structure No.	#		
STRUCTURE TYPE AND MATERIAL		CLASSIFICATION	
(43) Structure Type Main: MATERIAL -CONCRETE		(112) NBIS Bridge Length -	Code YES
Type - 4	Code 104	(104) Highway System - NHS	1
(44) Structure Type Appr: MATERIAL -CONCRETE		(26) Functional Class - URBAN-PRIN ART-OTH	13
Type - TEE BEAM	Code 104	(100) Strahnet Highway - NOT STRAH HWY	0
(45) Number of Spans in Main Unit	5	(101) Parallel Structure - NONE EXIST	N
(46) Number of Approach Spans	0	(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 - BITUMINOUS	Code 6	(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	1954	(58) Deck - GOOD	Code 7
(106) Year Reconstructed	1982	(59) Superstructure - POOR	4
(42) Type of Service On -HIGHWAY		(60) Substructure - SATISFACTORY	6
Under - WATERWAY	Code 5	(61) Channel and Channel Protection -BNK PRT REPAIR	7
(28) Lanes: On Structure = 2	Under Structure = 0	(62) Culverts - NOT APPLICABLE	N
(29) Average Daily Traffic	11300		
(30) Year of ADT 2016	(109) Truck ADT 06 %		
(19) Bypass, Detour Length	3 MI		
GEOMETRIC DATA		LOAD RATING AND POSTING	
(48) Length of Maximum Span	40 FT	(31) Design Load - HS 20	5
(49) Structure Length	145 FT	(64) Operating Rating - AS	63
(50) Curb or Sidewalk: Left 0.0 FT Right 0.0 FT		(66) Inventory Rating - AS	36
(51) Bridge Roadway Width Curb to Curb	82 FT	(70) Bridge Posting - EQUAL/ABOVE LEGAL LOADS	5
(52) Deck Width Out to Out	85.4 FT	(41) Structure Open, Posted or Closed -	A
(32) Approach Roadway Width (W/Shoulders)	82 FT	Description - OPEN, NO RESTRICT	
(33) Bridge Median -NONE	Code 0		
(34) Skew 0 Deg	(35) Structure Flared NO		
(10) Inventory Route Min Vert Clear	99 FT 99 IN		
(47) Inventory Route Total Horz Clear	82.0 FT		
(53) Min Vert Clear Over Bridge Roadway	99 FT 99 IN		
(54) Min Vert Underclear Ref - NOT HWY OR RX 0 FT 0 IN			
(55) Min Lat Underclear Right Ref -NOT HWY OR RXR 99.9 FT			
(56) Min Lat Underclear Left	0.0 FT		
NAVIGATION DATA		APPRAISAL	
(38) Navigation Control -NONE	Code 0	(67) Structure Evaluation - MEETS MIN TOLER LIMITS	4
(111) Pier Protection -	Code	(68) Deck Geometry	9
(39) Navigation Vertical Clearance	FT	(69) Underclearances, Vertical and Horizontal	N
(116) Vert-Lift Bridge Nav Min Vert Clear	FT	(71) Waterway Adequacy	7
(40) Navigation Horizontal Clearance	FT	(72) Approach Roadway Alignment	7
		(36) Traffic Safety Features	1010
		(113) Scour Critical Bridges - SCOUR CRIT, UNSTABLE	3
		PROPOSED IMPROVEMENTS	
		(75) Type of Work - REHAB/DETERIORATION	Code 351
		(76) Length of Structure Improvement	174.8 FT
		(94) Bridge Improvement Cost	\$259,000
		(95) Roadway Improvement Costs	\$13,000
		(96) Total Project Cost	\$285,000
		(97) Year of Improvement Cost Estimate	2017
		(114) Future ADT	12430
		(115) Year of Future ADT	2036
		INSPECTIONS	
(90) Inspection Date 03/2016	(91) Frequency 24 Mo		
(92) Critical Feature Inspection:	(93) CFI Date		
A) Fracture Crit Detail NO Mo A)			
B) Underwater Insp NO Mo B)			
C) Other Special Insp NO Mo C)			