

APPENDIX C

Appendix/Attachment Title

Bridges with Complex Components

Appendix/Attachment Revision and Year:

Version 1.0, 2020

Appendix/Attachment Introduction and Discussion

The NBIS (*23 CFR 650.313 (f)*) requires South Carolina to identify specific inspection procedures and additional inspector training and experience required to inspect complex bridges. District inspection teams and consultant inspection teams shall inspect complex bridges according to those procedures. The BIPM shall be responsible for coordinating the inspection of a bridge with complex components and may request a consultant to perform the inspections.

Note that while the bridges included in this Appendix are unique, there are other bridges in South Carolina that require some form of specific inspection procedure already identified in the NBIS and/or the BIGD. These bridges may not be included in this Appendix:

- Bridges where Underwater Inspections are required or
- Bridges which have Fracture Critical Members (FCM).

Information in Appendix C is current at the time of this document's publication. Contact BMO for updated information.

Appendix/Attachment Description

The bridges shown in this appendix are Bridges with Complex Components. Refer to both the Bridge File and the BIGD for inspection procedures. Bridges with Complex Components are defined in Section 4.5 of the BIGD.

FHWA Complex Bridges

Asset ID (NBI 08)	Facility Carried (NBI 07)	Feature Crossed (NBI 06)	FHWA Complex Bridge Type (NBI 43B)	Long Span Steel Bridge > 200ft	Long Span Concrete Bridge > 150 ft	Number of Main Spans > 25	Number of Approach Spans > 25	Has FCMs?	District (NBI 02)	County (NBI 03)
228	US 17 SB	ASHLEY RIVER	16					Yes	6	CHARLESTON
686	S-26-20	INTRACOASTAL WATERWAY	17	216				Yes	5	HORRY
687	S-26-616	INTRACOASTAL WATERWAY	17	217				Yes	5	HORRY
925	US 21	HARBOR RIVER	17				67	Yes	6	BEAUFORT
1303	SC 703	INTRACOASTAL WATERWAY	17	250				Yes	6	CHARLESTON
2303	SC 171	WAPPOO CREEK	16					Yes	6	CHARLESTON
3186	US 21 BUS	BEAUFORT RIVER	17	245			36	Yes	6	BEAUFORT
3607	US 17 NB	ASHLEY RIVER	16					Yes	6	CHARLESTON
8235	I-526 EB	WANDO RIVER	21		400		40		6	CHARLESTON
8238	I-526 WB	WANDO RIVER	21		400		40		6	CHARLESTON
9824	US 17	COOPER RIVER, TOWN CREEK	14				25	Yes	6	CHARLESTON
9973	L-834	INTRACOASTAL WATERWAY	17					Yes	5	HORRY

Long Span Steel (LSS) Bridges

Asset ID (NBI 08)	Facility Carried (NBI 07)	Feature Crossed (NBI 06)	FHWA Complex Bridge Type (NBI 43B)	Long Span Steel Bridge > 200ft	Long Span Concrete Bridge > 150 ft	Number of Main Spans > 25	Number of Approach Spans > 25	Has FCMs?	District (NBI 02)	County (NBI 03)
229	US 78	S.C.L. RR & S-39		220					6	CHARLESTON
838	US 29	BIG THICKETTY CREEK		200					4	CHEROKEE
1757	C-39-512	NS RR		217					3	PICKENS
1793	SC 700	STONO RIVER		230			115		6	CHARLESTON
1931	SC 7	ASHLEY RIVER		602		25			6	CHARLESTON
2668	S-10-20	STONO RIVER		300					6	CHARLESTON
4792	US 17	WACCAMAW RIVER		782					5	GEORGETOWN
7220	S-12-46	I-77		252					4	CHESTER
7221	S-12-52	I-77		219					4	CHESTER
7223	S-12-497	I-77		200					4	CHESTER
7889	US 17 SBL	SAMPIT RIVER & S-103		650					5	GEORGETOWN
8021	RAMP OFF I-77 NB	I-26 & I-77		200					1	LEXINGTON
8104	US 76 EB	WATEREE RIVER		210			60		1	SUMTER
8154	S-19-53	STEVENS CREEK		222					2	EDGEFIELD
8222	SC 28 EBL	SAVANNAH RIVER		210					7	AIKEN
8516	I-526	COOPER RIVER		800			135	Yes	6	BERKELEY
8519	I-526 EB	(URBAN AREA) US 52		202			229		6	CHARLESTON
8525	I-526 WB	(URBAN AREA) US 52		202			229		6	CHARLESTON
8579	US 76 WB	GREAT PEE DEE RIVER		200			137		5	MARION
8590	SC 39	SALUDA RIV		235					2	SALUDA
8719	SC 174	DAWHOO RIVER		200			94		6	CHARLESTON
8902	SC 34	GREAT PEE DEE RIVER		240			38		5	MARLBORO
9350	SC 34	SALUDA RIVER		213					2	NEWBERRY
9473	SC 56	ENOREE RIVER		200					4	UNION
9602	I- 185 RMP	I- 385		239					3	GREENVILLE
9768	SC 183	NS & CSXT RR		236					3	GREENVILLE
9825	US 17 NB	MEETING STREET		200					6	CHARLESTON
9826	RAMP OFF I-26 EB	I-26&RAMPSON US 17&US 52		213				Yes	6	CHARLESTON
9828	RAMP ON I-26 WB	ACCESS RD		220					6	CHARLESTON
9830	RAMP ON US 17 SB	US 17 NB		210					6	CHARLESTON
9832	US 17 SB	MEETING ST, I-26		210				Yes	6	CHARLESTON
9879	US 501 NB	FOREST BROOK RD		292					5	HORRY
9880	US 501 SB	FORESTBROOK RD		294					5	HORRY
9889	US 278	BROAD CREEK TOLL BRIDGE		200			39		6	BEAUFORT
9931	US 78 EB	S-43/N.A.D RD		214					6	CHARLESTON
9932	US 78 EB	US 52		230					6	CHARLESTON
9953	US 176 RAMP	I-585 WB EXIT		231					3	SPARTANBURG
10032	US 521	US 521 BUS		215					5	GEORGETOWN
10088	I-95 NBL	SAVANNAH RIVER		220			25		6	JASPER
10089	I-95 SBL	SAVANNAH RIVER		220			25		6	JASPER
10090	SC 72	SAVANNAH RIVER		238				Yes	2	ABBEVILLE
10118	RAMP 5366 & 5367	US 17		250					6	CHARLESTON

Long Span Concrete (LSC) Bridges

Asset ID (NBI 08)	Facility Carried (NBI 07)	Feature Crossed (NBI 06)	FHWA Complex Bridge Type (NBI 43B)	Long Span Steel Bridge > 61m (200ft)	Long Span Concrete Bridge >46m (150 ft)	Number of Main Spans > 25	Number of Approach Spans > 25	Has FCMs?	District (NBI 02)	County (NBI 03)
220	US 29	PACOLET RIVER			175				3	SPARTANBURG
431	SC 9 SB	CATAWBA RIVER			170				4	LANCASTER
1253	SC 903	BIG LYNCHES RIVER			150				1	KERSHAW
1629	SC 49	ENOREE RIVER			194				2	LAURENS
2429	S-44-22	ENOREE RIVER			150				4	UNION
2662	SC 170	BROAD RIVER			180		58		6	BEAUFORT
8617	SC 30	ASHLEY AND WAPPOO.			157	74	78		6	CHARLESTON
8750	SC 544	SC 707 & S-611 & ICWW			180	37			5	HORRY
9402	I-526 EB	US 17 & SC 7			152				6	CHARLESTON
9778	SC 31 SBL	HORRY CO. RR			150				5	HORRY
9779	SC 31 NBL	HORRY CO. RR			150				5	HORRY
9865	I-520 EBL	SC 126			155				7	AIKEN
9866	I-520 WBL	SC 126			155				7	AIKEN
9957	US 21 NB	BEAUFORT RIVER			170		35		6	BEAUFORT
10006	SC 31 BRIDGE RAMP	US 501			259				5	HORRY
10007	SC 31 BRIDGE RAMP	US 501			334				5	HORRY
10016	S-1315	ICWW			150				5	HORRY
10101	US 17 NBL	SC 707/L-2907			300				5	HORRY
10102	US 17 SBL	SC 707/L-2907			300				5	HORRY
10107	S-26-1244	ICWW & L-3658			330				5	HORRY
10262	SC 31	INTRACOASTAL WATERWAY			310		25		5	HORRY
10270	I-26 RAMP	I-26 RAMP 7902			251				6	BERKELEY
10271	I-26 RAMP	I-26			262				6	BERKELEY

Multi-Span Main (MSM) Bridges

Asset ID (NBI 08)	Facility Carried (NBI 07)	Feature Crossed (NBI 06)	FHWA Complex Bridge Type (NBI 43B)	Long Span Steel Bridge > 61m (200ft)	Long Span Concrete Bridge >46m (150 ft)	Number of Main Spans > 25	Number of Approach Spans > 25	Has FCMs?	District (NBI 02)	County (NBI 03)
150	US 52	SANTEE RIVER SWAMP				25			6	BERKELEY
151	US 52/N US HWY 52	SANTEE RIVER SWAMP				46			6	BERKELEY
492	US 1	THOMPSON CREEK				26			4	CHESTERFIELD
1026	US 17 ALT	COMBAHEE RIVER				27			6	COLLETON
2166	US 401	LYNCHES RIVER				36			5	DARLINGTON
2216	US 378	GREAT PEE DEE RIVER				32			5	MARION
2757	SC 119	BLACK SWAMP (NO. 1)				34			6	JASPER
3632	I-26 EB	FOUR HOLE SWAMP				25			6	BERKELEY
3633	I-26 WB	FOUR HOLE SWAMP				25			6	BERKELEY
3651	US 301	LYNCHES RIVER				27			5	FLORENCE
3997	S-45-30	BLACK RIVER				29			5	WILLIAMSBURG
4945	I-26	S-2472				27			6	CHARLESTON
5036	S-18-56	FOUR HOLE SWAMP				25			6	DORCHESTER
5040	I-95 NB	LYNCHES RIVER				27			5	FLORENCE
5046	I-95 SB	LYNCHES RIVER				27			5	FLORENCE
5231	I-26 EB	THE HERIOT ST VIADUCT				96			6	CHARLESTON
5690	I-95 NB	COMBAHEE RIVER				27			6	COLLETON
5692	I-95 SB	COMBAHEE RIVER				27			6	COLLETON
5780	I-20 EB	WATEREE SWP OVERFLOW (1)				25			1	KERSHAW
5781	I-20 EB	WATEREE SWP OVERFLOW (2)				25			1	KERSHAW
5785	I-20 WB	WATEREE SWP OVERFLOW (1)				25			1	KERSHAW
5786	I-20 WB	WATEREE SWP OVERFLOW (2)				25			1	KERSHAW
7812	I-77 NB	CONGAREE RIVER OVF #3				26			1	LEXINGTON
7813	I-77 SB	CONGAREE RIVER OVF #3				26			1	LEXINGTON
7826	I-77 NB	CONGAREE SWAMP				44			1	RICHLAND
7831	I-77 SB	CONGAREE SWAMP				44			1	RICHLAND
8061	I-526 EB	TIDAL CREEK				25			6	BERKELEY
8062	I-526 WB	TIDAL CREEK				25			6	BERKELEY
8414	US 278 EB	OKATIE RIVER				27			6	BEAUFORT
8416	US 278 WB	OKATIE RIVER				27			6	BEAUFORT
8443	SC 403	LYNCHES RIVER				27			5	FLORENCE
8522	RAMP OFF I-526 EB	VEGETATIVE RIGHT OF WA				45			6	CHARLESTON
8527	RAMP ON I-526 WB	FILBIN CREEK				48			6	CHARLESTON
8622	SC 30 EB	MARSH				28			6	CHARLESTON
8623	SC 30	MARSH				30			6	CHARLESTON
8975	SC 61	MARSH				63	30		6	CHARLESTON
9541	US 52	SANTEE RIVER SWAMP (MD-6)				27			5	WILLIAMSBURG
9678	SC 22 EB	MAPLE SWAMP				43			5	HORRY
9679	SC 22 WB	MAPLE SWAMP				43			5	HORRY
9687	SC 22 EB	KINGSTON LAKE				99			5	HORRY
9688	SC 22 WB	KINGSTON LAKE				99			5	HORRY
9700	SC 22 WBL	JONES BIG SWAMP #2				28			5	HORRY
9701	SC 22 EBL	JONES BIG SWAMP #2				28			5	HORRY
9702	SC 22 EB	JONES BIG SWAMP #3				92			5	HORRY
9703	SC 22 WB	JONES BIG SWAMP #3				92			5	HORRY
9708	SC 22 EB	JONES BIG SWAMP #5				25			5	HORRY
9709	SC 22 WB	JONES BIG SWAMP #5				25			5	HORRY
9944	S-10-2535	MARSH				33			6	CHARLESTON
9970	US 301	JEFFERIES CREEK				27			5	FLORENCE
10087	SR 404P-US 17	BACK RIVER				47			6	JASPER

Multi-Span Approach (MSA) Bridges

Asset ID (NBI 08)	Facility Carried (NBI 07)	Feature Crossed (NBI 06)	FHWA Complex Bridge Type (NBI 43B)	Long Span Steel Bridge > 61m (200ft)	Long Span Concrete Bridge >46m (150 ft)	Number of Main Spans > 25	Number of Approach Spans > 25	Has FCMs?	District (NBI 02)	County (NBI 03)
356	SC 28	SAVANNAH RIVER					51		2	MCCORMICK
889	US 1 SB	GREAT PEE DEE RIVER					32		5	MARLBORO
1061	SC 170	LITTLE BACK RIV-GA. LINE					76		6	JASPER
1712	US 17 SB	SOUTH SANTEE RIVER					25	Yes	5	GEORGETOWN
1823	US 17 SB	NORTH SANTEE RIVER					40	Yes	5	GEORGETOWN
1862	US 52	SANTEE RIVER					36		6	BERKELEY
2297	US 278 EB	MACKAY CREEK					54		6	BEAUFORT
3923	US 76 EB	GREAT PEE DEE RIVER					136	Yes	5	MARION
3928	US 1 NB	GREAT PEE DEE RIVER					32		5	MARLBORO
4443	US 301	SAVANNAH RIVER					27		7	ALLENDALE
4465	SC 802	LUCY POINT CREEK					28		6	BEAUFORT
5045	I-95 NB	GREAT PEE DEE RIVER					56		5	FLORENCE
5051	I-95 SB	GREAT PEE DEE RIVER					56		5	FLORENCE
5105	US 1 NB	WATEREE RIVER					36		1	KERSHAW
5249	I-95 NB	LAKE MARION					80		7	CLARENDON
5258	I-95 SB	LAKE MARION					80		7	CLARENDON
6087	US 17 ALT	EDISTO RIVER					25		6	DORCHESTER
6492	S-21-49	LYNCHES RIVER					25		5	FLORENCE
7114	US 17 NB	SOUTH SANTEE RIVER					29		5	GEORGETOWN
7115	US 17 NB	NORTH SANTEE RIVER					45		5	GEORGETOWN
7329	I-526 EB	ASHLEY RIVER&BULL CREEK					81		6	CHARLESTON
7330	I-526 WB	ASHLEY RIVER&BULL CREEK					81		6	CHARLESTON
7425	US 21 SB	BEAUFORT RIVER					52		6	BEAUFORT
7537	US 278 EB	SKULL CREEK					25		6	BEAUFORT
7650	US 278 WB	MACKAY CREEK					54		6	BEAUFORT
7890	US 701	BLACK RIVER					30		5	GEORGETOWN
7911	I-77 NB	L-66					48		1	LEXINGTON
7912	I-77 NB	CONGAREE CREEK					45		1	LEXINGTON
7915	I-77 SB	L-66 & OVERFLOW #2					48		1	LEXINGTON
7916	I-77 SB	CONGAREE CREEK					45		1	LEXINGTON
8134	I-526 EB	BERESFORD CREEK					40		6	BERKELEY
8135	I-526 WB	BERESFORD CREEK					40		6	BERKELEY
8323	I-526 EB	I-26 & S-1600 & RR					29		6	CHARLESTON
8324	I-526 RAMP	RAMP TO I-26WB FR I526EB					31		6	CHARLESTON
8327	I-562 WB	I-26					30		6	CHARLESTON
8413	US 21 NB	WHALE BRANCH					30		6	BEAUFORT
8524	RAMP OFF I-526 EB	RR CSXT					67		6	CHARLESTON
8529	RAMP ON I-526 WB	VEGETATIVE RIGHT OF WAY					65		6	CHARLESTON
8713	US 21	BATTERY CREEK					34		6	BEAUFORT
8720	SC 517	INTRACOASTAL WATERWAY					98		6	CHARLESTON
9339	US 1 SB	WATEREE RIVER					36		1	KERSHAW
9396	US 17 ALT	SANTEE RIVER					47		6	BERKELEY
9716	SC 22 EB	ICWW OVERFLOW					34		5	HORRY
9717	SC 22 WB	ICWW OVERFLOW					34		5	HORRY
9758	SC 35	SCX RR					93		1	LEXINGTON
10008	SC 31 BRIDGE RAMP	US 501					143		5	HORRY
10094	US 25 BUS	SAVANNAH RIVER					25		7	AIKEN