



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

COUNTY: WILKES STRUCTURE NUMBER: 960713 FREQUENCY: 24 MONTHSFACILITY CARRIED: SR2486 MILE POST: LOCATION: .8 MI.NE.JCT.SR2483FEATURE INTERSECTED: CUB CREEKLATITUDE: 36° 4' 53.93" LONGITUDE: 81° 9' 4.57"SUPERSTRUCTURE: TIMBER FLOOR ON SALAVAGE I-BEAMSSUBSTRUCTURE: E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR.CENTERSSPANS: 1 @ 40'-6"☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTIONPRESENT CONDITION: Fair INSPECTION DATE: 04/23/2015POSTED SV: 30 POSTED TTST: 30OTHER SIGNS PRESENT: 4 DEL

Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

WEST TO EAST

INSPECTED BY MAX FORD	SIGNATURE 	ASSISTED BY BED
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Span Element Report

Structure Number: 960713

Inspection Date: 04/23/2015

Span Number 1

Span Length 40.5 Feet

Number of Beams/Girders: 9

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
31		Timber Deck	814	814	0	0	0	0	3324
107		Steel Open Girder/Beam	369	41	41	287	0	328	3314
515	107	Steel Protective Coating	2529	281	281	1967	0	2248	3342
216		Timber Abutment	48	44	4	0	0	4	3346
228		Timber Pile	12	12	0	0	0	0	3344
235		Timber Pier Cap	42	42	0	0	0	0	3344
313		Fixed Bearing	18	18	0	0	0	0	3334
515	313	Steel Protective Coating	18	18	0	0	0	0	3342
316		Other Bearings	18	18	0	0	0	0	3334
332		Timber Bridge Railing	82	82	0	0	0	0	3316
510		Wearing Surface	773	0	0	773	0	773	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 960713

Inspection Date: 04/23/2015

Structure Number: 960713

Inspection Date: 04/23/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	31	Timber Deck	814	814	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	41	41	0	0	0	0	3316	☐ Requested
Protective System		515	Steel Protective Coating	41	41	0	0	0	0	3342	
☒ Bridge Rail	2	332	Timber Bridge Railing	41	41	0	0	0	0	3316	☐ Requested
Protective System		515	Steel Protective Coating	41	41	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	773	0	0	773	0	773	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	2	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	3	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	4	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	5	107	Steel Open Girder/Beam	41	0	41	0	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	281	0	0	281	3342	
☒ Beam	6	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	7	107	Steel Open Girder/Beam	41	41	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	281	0	0	0	0	3342	
☒ Beam	8	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Beam	9	107	Steel Open Girder/Beam	41	0	0	41	0	41	3314	☐ Requested
Protective System		515	Steel Protective Coating	281	0	0	281	0	281	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	7	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	

Structure Number: 960713

Inspection Date: 04/23/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	7	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	8	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	8	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	9	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☒ Bearing Device	9	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 960713

Inspection Date: 04/23/2015

Span Number 1

Span	1	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element:	510	Name	Wearing Surface	Qty:	773	Lvl 2:	0	Lvl 3	773	Lvl 4	0	Maint. Qty	773
Defect Description:													

773 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. ENTIRE WEARING SURFACE CRACKED FULL WIDTH AND LENGTH

Span	1	Beam	1	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, WITH NO SECTION LOSS, BOTTOM 3" OF WEB CORROSION WITH NO SECTION LOSS

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH, AND BOTTOM 3" OF WEB

Span	1	Beam	2	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, WITH NO SECTION LOSS, BOTTOM 3" OF WEB CORROSION WITH NO SECTION LOSS

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH, AND BOTTOM 3" OF WEB

Span	1	Beam	3	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON WEB

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH CORROSION, BOTTOM 6" OF WEB CORROSION

Span	1	Beam	4	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON WEB

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH CORROSION, BOTTOM 6" OF WEB CORROSION

Span	1	Beam	5	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	41	Lvl 3	0	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. TOP AND BOTTOM FLANGE FULL LENGTH

281 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective. TOP AND BOTTOM FLANGE FULL LENGTH CORROSION FRECKLE RUST

Span	1	Beam	6	Component Name:	Plate Girder								
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41
Defect Description:													

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON

WEB

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH CORROSION, BOTTOM 6" OF WEB CORROSION

Span	1	Beam	8	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41

Defect Description:

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON WEB

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH CORROSION, BOTTOM 6" OF WEB CORROSION

Span	1	Beam	9	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	41	Lvl 2:	0	Lvl 3	41	Lvl 4	0	Maint. Qty	41

Defect Description:

41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, WITH NO SECTION LOSS, BOTTOM 3" OF WEB CORROSION WITH NO SECTION LOSS

281 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness. TOP AND BOTTOM FLANGE FULL LENGTH, AND BOTTOM 3" OF WEB

Substructure Detailed Element Quantities

Structure Number: 960713

Inspection Date: 04/23/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	21	21	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	24	20	4	0	0	4	3346	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	21	21	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	24	24	0	0	0	0	3346	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 960713

Inspection Date: 04/23/2015

End Bent 1

End Bent 1	Row 1	Abutments	1									
Element: 216	Name	Timber Abutment	Qty:	24	Lvl 2:	4	Lvl 3	0	Lvl 4	0	Maint. Qty	4
Defect Description:												

4 Feet of Decay/Section Loss: Affects less than 10% of the member section LEFT 4' OF ABUTMENT A BOTTOM BULKHEAD BOARD

National Bridge and NC Inspection Items

Structure Number: 960713

Inspection Date: 04/23/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	6
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C	G	0	3352
Wingwall	G, F, P, or C	G	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		L		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	25		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 960713

Inspection Date: 04/23/2015

Item	Deck - Item 58	Grade	7	Maint Code		Qty.	0
Details	GOOD						
Item	Superstructure - Item 59	Grade	6	Maint Code		Qty.	0
Details	BEAM CORROSION						
Item	Substructure - Item 60	Grade	6	Maint Code		Qty.	0
Details	POST SUPPLIMENTED						
Item	Channel and Channel Protection - Item 61	Grade	7	Maint Code		Qty.	0
Details	GOOD						
Item	Waterway Adequacy - Item 71	Grade	6	Maint Code		Qty.	0
Details	SUBJECT TO FLOODING						
Item	Approach Roadway Alignment - Item 72	Grade	8	Maint Code		Qty.	0
Details	GOOD						
Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
Details	SV 30 TONS						
Item	Deck Debris	Grade	G	Maint Code	3376	Qty.	0
Details	GOOD						
Item	Drainage System	Grade	G	Maint Code	3332	Qty.	0
Details	GOOD						
Item	Slope Protection	Grade	G	Maint Code	3352	Qty.	0
Details	GOOD						
Item	Drift	Grade	G	Maint Code	3366	Qty.	0
Details	GOOD						
Item	Utilities	Grade	G	Maint Code		Qty.	0
Details	GOOD AT THIS TIME...						
Item	Scour	Grade	G	Maint Code		Qty.	0
Details	GOOD						
Item	Response to live load	Grade	G	Maint Code		Qty.	0
Details	GOOD						
Item	Wingwalls	Grade	G	Maint Code	3350	Qty.	0

Structure Number: 960713

Inspection Date: 04/23/2015

Details GOOD

Item	Field Scour Evaluation	Grade	L	Maint Code	Qty.	0
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Details WITHIN LIMITS



Span 1 Wearing Surface: 773 Square Feet of Crack (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft. ENTIRE WEARING SURFACE CRACKED FULL WIDTH AND LENGTH



End Bent 1 Abutment/Backwall : 4 Feet of Decay/Section Loss: Affects less than 10% of the member section LEFT 4' OF ABUTMENT A BOTTOM BULKHEAD BOARD



ABUTMENT A POST 6 DECAYED AND SUPPLIMENTED



ABUTMENT B LEFT BULKHEAD TEMPORARY REPAIRS



ABUTMENT B POSTS 2, 3, 5, DECAYED AND SUPPLIMENTED



Span 1 Beam 3: 41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON WEB



41 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. TOP AND BOTTOM FLANGE FULL LENGTH, 1/2 SECTION REMAINING, BOTTOM 6 INCHES OF WEB, NO SECTION LOSS AT THIS TIME ON WEB



WEST TO EAST



POSTING SIGN (30 TONS SV)



DOWNSTREAM



UPSTREAM



LOOKING WEST



SOUTH PROFILE



ABUTMENT B



ABUTMENT A



BEARING ABUTMENT A #2



NORTH PROFILE

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 10/26/2015

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	960713	SUFFICIENCY RATING =		7
(8) STRUCTURE NUMBER(FEDERAL)	000000001930713	STATUS =		Structurally Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31024860				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	3	CLASSIFICATION		CODE	
(3) COUNTY CODE 193 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - CUB CREEK		(104)HIGHWAY SYSTEM Is not on NHS		0	
(7) FACILITY CARRIED SR2486		(26) FUNCTIONAL CLASS - Local		09	
(9) LOCATION .8 MI.NE.JCT.SR2483		(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(16)LAT 36° 4' 53.93" (17)LONG 81° 9' 4.57"		(102)DIRECTION OF TRAFFIC - 2-way Traffic		2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE	(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions		T	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network		0	
		(20) TOLL On Free Road		3	
		(31) MAINTAIN - State Highway Agency		01	
		(22) OWNER - State Highway Agency		01	
		(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN: Steel					
TYPE - Stringer Mutlibeam or Girder	CODE	302			
(44) STRUCTURE TYPE APPR :					
TYPE -	CODE	000	CONDITION		CODE
(45) NUMBER OF SPANS IN MAIN UNIT		1	(58) DECK		7
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE		6
(107)DECK STRUCTURE TYPE - 8	CODE		(60) SUBSTRUCTURE		4
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(61) CHANNEL & CHANNEL PROTECTION		7
(A) TYPE OF WEARING SURFACE -	CODE		(62) CULVERTS		N
(B) TYPE OF MEMBRANE -	CODE				
(C) TYPE OF DECK PROTECTION -	CODE		LOAD RATING AND POSTING		CODE
			(31) DESIGN LOAD Unknown		0
			(63) OPERATING RATING METHOD - Allowable Stress		2
			(64) OPERATING RATING - HS-1		1
			(65) INVENTORY RATING METHOD - Allowable Stress		2
			(66) INVENTORY RATING - HS-1		1
			(70) BRIDGE POSTING - Posting Required		3
			(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P
			DESCRIPTION - Posted for Load		
AGE AND SERVICE				APPRAISAL	
(27) YEAR BUILT 1962				(67) STRUCTURAL EVALUATION	
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY	
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ	
UNDER - Waterway				(71) WATERWAY ADEQUACY	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE				(72) APPROACH ROADWAY ALIGNMENT	
(29) AVERAGE DAILY TRAFFIC 200				(36) TRAFFIC SAFETY FEATURES	
(30) YEAR OF ADT 1996 (109) TRUCK ADT PCT 6%				(113)SCOUR CRITICAL BRIDGES	
(19) BYPASS OR DETOUR LENGTH 99 MI					
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN 40 FT					
(49) STRUCTURE LENGTH 41 FT					
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT					
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.083 FT					
(52) DECK WIDTH OUT TO OUT 20.083 FT					
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 16 FT					
(33) BRIDGE MEDIAN - No Median					
(34) SKEW 0° (35) STRUCTURE FLARED 0					
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT					
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.083 FT					
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT					
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT					
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT					
(56) MIN LAT UNDERCLEAR LT REF - 000 FT					
NAVIGATION DATA				PROPOSED IMPROVEMENTS	
(38) NAVIGATION CONTROL - No Navigational Control				(75) TYPE OF WORK -	
(111)PIER PROTECTION -				CODE	
(39) NAVIGATION VERTICAL CLEARANCE 0				(76) LENGTH OF STRUCTURE IMPROVEMENT	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT				(94) BRIDGE IMPROVEMENT COST	
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT				(95) ROADWAY IMPROVEMENT COST	
				(96) TOTAL PROJECT COST	
				(97) YEAR OF IMPROVEMENT COST ESTIMATE	
				(114)FUTURE ADT 400 (115) YEAR FUTURE ADT 2025	
				INSPECTIONS	
				(90) INSPECTION DATE 04/23/2015	
(92) CRITICAL FEATURE INSPECTION :				(93) CFI DATE	
A) FRACTURE CRIT DETAIL - NO				A)	
B) UNDERWATER INSP - NO				B)	
C) OTHER SPECIAL INSP NO				C)	
SCOUR					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 10/26/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
WILKES	11	3	960713	41	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2486	CUB CREEK

LOCATED :	BRIDGE NAME :	CITY :
.8 MI.NE.JCT.SR2483		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	200 1996	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1962	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
	BMU		TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		8 FT		1		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON SALAVAGE I-BEAMS
------------------	----------------------------------

SUBSTRUCTURE :	E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR.CENTERS
----------------	---

SPANS :	1 @ 40'-6
---------	-----------

BEAMS OR GIRDERS :	9 LNS.24 I-BEAMS @ 2'-3 CTS.
--------------------	------------------------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/1.5 AWS		20.083 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.083 FT	19.75 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Cap Ab#2	SV 30	TTST 30	DATE	10/30/2008	

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

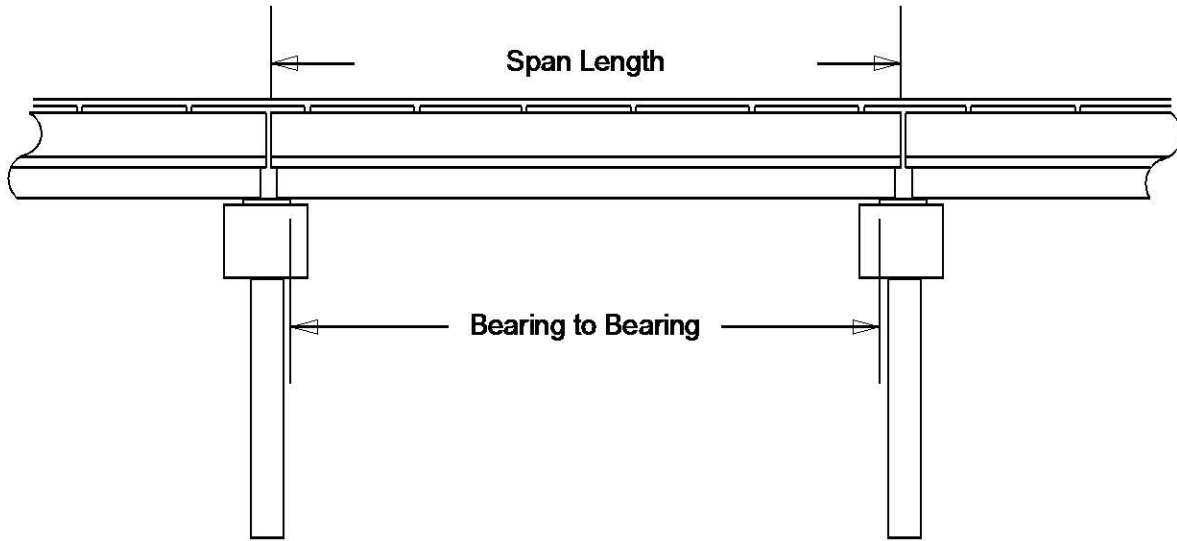
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: WILKES Structure No: 960713 Date: _____ Inspected By: MF



Span No	Span Length	Bearing to Bearing	Comments
1	40.5'	39.67'	FACE OF CAP TO FACE OF CAP = 38'-4"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 960713 County: WILKES Date: _____ By: MF

Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 5 Location of Highwater Mark: DEBRIS ON CAPS

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.92	FILL FACE			
0.25	2.92				
0.26	8.75	SILL	0.26	7.5	
1.26	8.75				
1.27	10.17	Water Surface (WS)			
1.28	11				
3	10.25				
5	10				
10	10.58				
20	10.5				
28	11				
34	10.17	Water Surface/Water Edge (WSWE)			
40.24	8.92		40.24	9.67	
40.25	3.25				
40.5	3.25	FILL FACE			

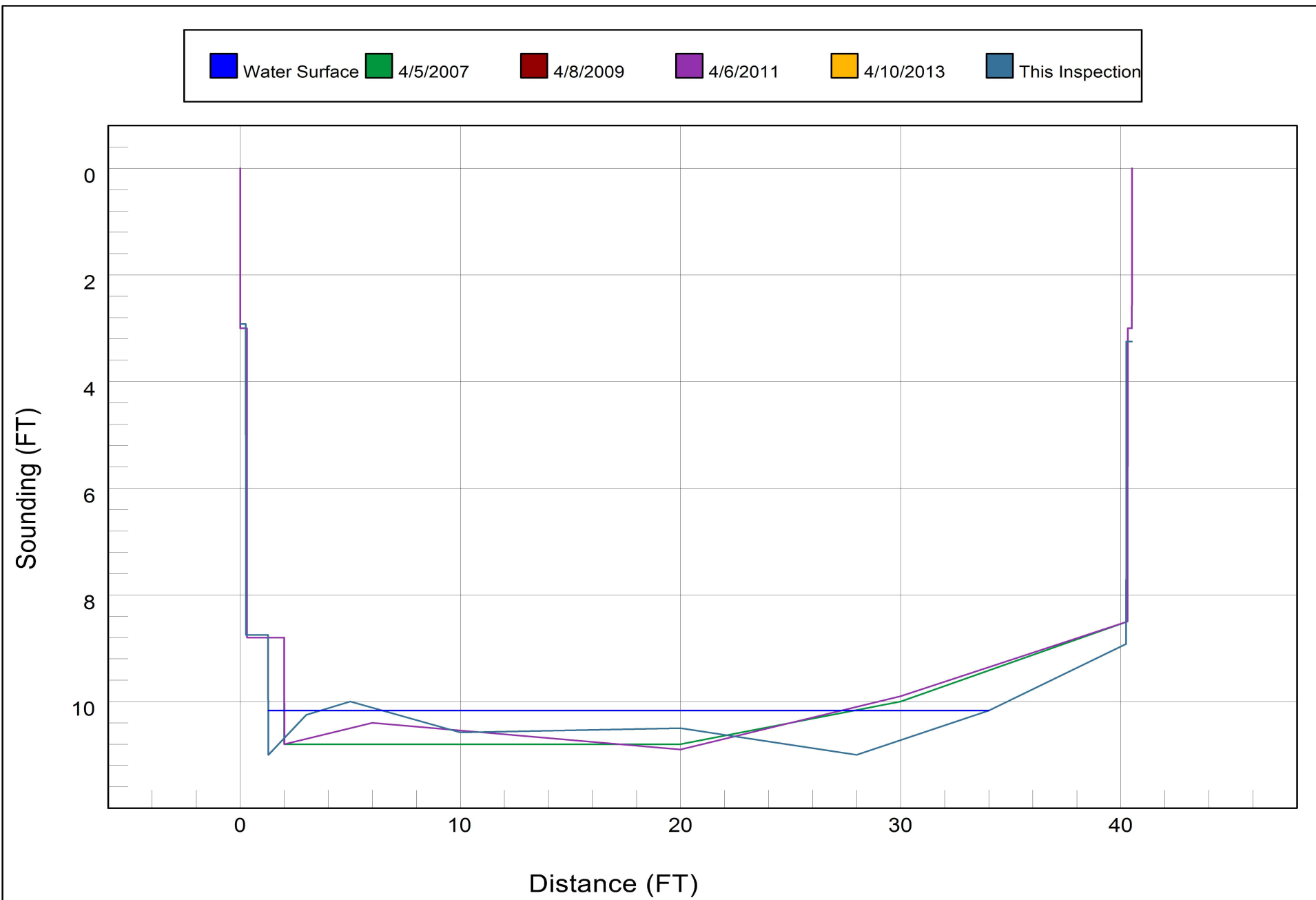
Bridge: 960713

County WILKES

Date:

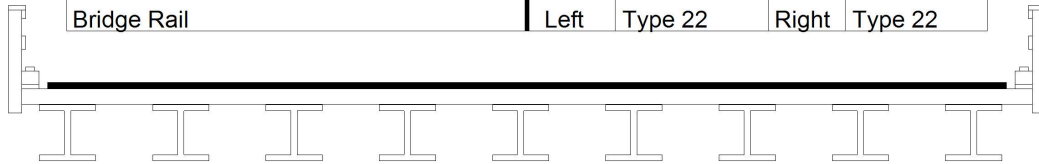
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

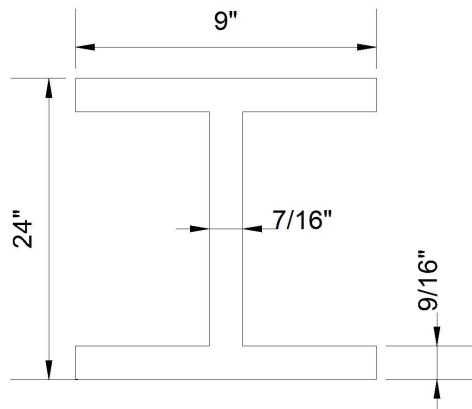
Deck Width/Out to Out	20.083ft	Between Rails			19.750ft
Clear Roadway	19.083ft	Wearing Surface			0.125ft
Median Width		Median Height			
Curb Height		Left	0.667ft	Right	0.667ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.5ft	Right	0.5ft
Top of Rail to Deck/Wearing Surface		Left	2.83ft	Right	2.833ft
Bridge Rail		Left	Type 22	Right	Type 22



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.917
Top of Rail to Bottom of Beam	5.58	Right Overhang	1.167

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.250ft	
2	Steel I Beam	2.250ft	
3	Steel I Beam	2.250ft	
4	Steel I Beam	2.250ft	
5	Steel I Beam	2.250ft	
6	Steel I Beam	2.250ft	
7	Steel I Beam	2.250ft	
8	Steel I Beam	2.250ft	
9	Steel I Beam	ft	

VERIFIED 04/23/15 M. FORD, B. DAY



2 5/8" X 10" DIAPH. @ MID-SPAN

Title

TYPICAL SECTION

Description

SPAN 1, LOOKING EAST

Bridge No: 960713

Drawn By: HMS

Date: 04/15/2013

File Name: S0126001494

Bridge Inspection Field Sketch



Roadway	16ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5ft Wide		5ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED 04/23/15 M. FORD, B. DAY

Title

APPROACH ROADWAY

Description

WEST APPROACH, LOOKING EAST

Bridge No: 960713

Drawn By: HMS

Date: 04/15/2013

File Name: S0130001778

Bridge Inspection Field Sketch

VERIFIED 04/23/15 M. FORD, B. DAY

ADDED POST

10" X 9-1/2" TIM. SILL

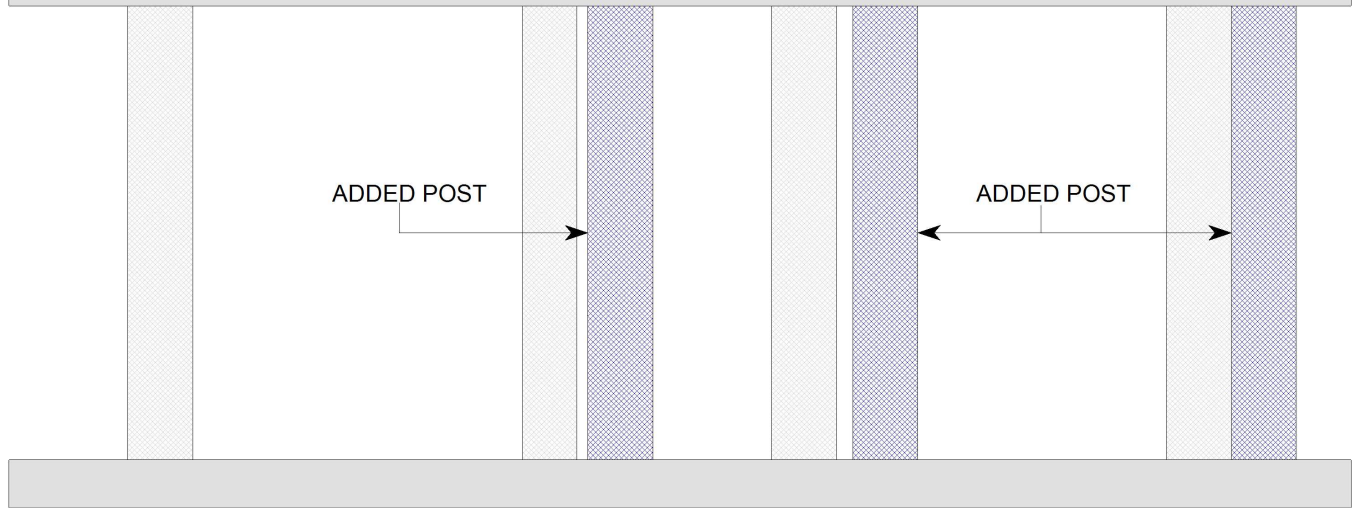
CONCRETE

Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
20.917 ft.	.813 ft.	.813 ft.	.833 ft.	2.330 ft.	.417 ft.		2.330 ft.			
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material Timber							
Length	Width	Height								
16.830 ft.	.833 ft.	.792 ft.								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	2 ft.	1 ft.	.83 ft.		Vertical	No	No	No	No
2	Timber	5.83 ft.	.83 ft.	.83 ft.		Vertical	No	No	No	No
3	Timber	4 ft.	.83 ft.	.83 ft.		Vertical	No	No	No	No
4	Timber	5.083 ft.	.83 ft.	.83 ft.		Vertical	No	No	No	No
5	Timber	.833 ft.	.83 ft.	.83 ft.		Vertical	No	Yes	No	No
6	Timber		.83 ft.	.83 ft.		Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents:										

Title		Description	
SUBSTRUCTURE		END BENT 1, LOOKING EAST	
Bridge No: 960713	Drawn By: HMS	Date: 04/15/2013	File Name: S0130001779

Bridge Inspection Field Sketch

VERIFIED 04/23/15 M. FORD, B. DAY



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.667 ft.	.833 ft.	.833 ft.	2.330 ft.	1.417 ft.	1.750 ft.	1.000 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material Timber							
Length	Width	Height								
16.000 ft.	.833 ft.	.833 ft.								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.	.833 ft.		Vertical	No	No	No	No
2	Timber	1.083 ft.	.833 ft.	.833 ft.		Vertical	No	No	No	No
3	Timber	2.83 ft.	1 ft.	.833 ft.		Vertical	No	Yes	No	No
4	Timber	1.25 ft.	1 ft.	.833 ft.		Vertical	No	No	No	No
5	Timber	4.83 ft.	1 ft.	.833 ft.		Vertical	No	Yes	No	No
6	Timber	1 ft.	1 ft.	.833 ft.		Vertical	No	No	No	No
7	Timber		1 ft.	.833 ft.		Vertical	No	Yes	No	No
Bent/Abutment #: 2 Similar Bents:										

Title

SUBSTRUCTURE

Description

END BENT 2, LOOKING EAST

Bridge No: 960713

Drawn By: HMS

Date: 04/15/2013

File Name: S0130001780