



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **STRUCTURE DATA CHANGES**

Structure Safety Report

Routine Element Inspection

COUNTY: BLADEN STRUCTURE NUMBER: 080013 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1100 MILE POST: _____
LOCATION: 0.4MI.E. OF JCT. SR1122
FEATURE INTERSECTED: CRAWLEY SWAMP
LATITUDE: 34° 37' 6.02" LONGITUDE: 78° 48' 2.78"
SUPERSTRUCTURE: RC FLOOR ON TIMBER JOISTS
SUBSTRUCTURE: EBTS&IBTS:TIMBER CAPS ON TIMBER PILES @ VAR.CTS.
SPANS: 1@18"; 3@16.83"; 1@18"
☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION
PRESENT CONDITION: Poor INSPECTION DATE: 06/09/2015
POSTED SV: 19 POSTED TTST: 28
OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING EAST (CENTER ROAD)

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>

INSPECTED BY Ray L. Kisner	SIGNATURE <i>Ray L. Kisner</i>	ASSISTED BY R.D.Heath
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Span Element Report

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 1

Span Length 18 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	439	113	300	26	0	326	3326
111		Timber Open Girder/Beam	342	342	0	0	0	0	3304
216		Timber Abutment	32	-1	32	1	0	32	3346
228		Timber Pile	4	0	4	0	0	4	3344
235		Timber Pier Cap	26	26	0	0	0	0	3344
331		Reinforced Concrete Bridge Railing	36	35	0	1	0	1	3318

"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

Span Number 2

Span Length 16.833 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	411	0	190	221	0	411	3326
111		Timber Open Girder/Beam	323	323	0	0	0	0	3304
228		Timber Pile	4	0	4	0	0	4	3344
235		Timber Pier Cap	26	25	1	0	0	1	3344
301		Pourable Joint Seal	26	0	0	26	0	26	3310
331		Reinforced Concrete Bridge Railing	34	34	0	0	0	0	3318

"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

Span Number 3

Span Length 16.833 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	411	240	1	170	0	171	3326
111		Timber Open Girder/Beam	323	323	0	0	0	0	3304
228		Timber Pile	4	0	4	0	0	4	3344
235		Timber Pier Cap	26	24	0	2	0	2	3344
301		Pourable Joint Seal	26	0	0	26	0	26	3310
331		Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318
332		Timber Bridge Railing	17	17	0	0	0	0	3316

"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

Span Number 4

Span Length 16.833 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	411	96	100	215	0	315	3326
111		Timber Open Girder/Beam	323	323	0	0	0	0	3304
228		Timber Pile	4	0	4	0	0	4	3344
235		Timber Pier Cap	26	26	0	0	0	0	3344
301		Pourable Joint Seal	26	0	0	26	0	26	3310
331		Reinforced Concrete Bridge Railing	34	34	0	0	0	0	3318

"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

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 5**Span Length 18 Feet****Number of Beams/Girders: 19**

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	439	239	0	200	0	200	3326
111		Timber Open Girder/Beam	342	342	0	0	0	0	3304
216		Timber Abutment	32	0	32	0	0	32	3346
228		Timber Pile	8	0	8	0	0	8	3344
235		Timber Pier Cap	52	51	1	0	0	1	3344
301		Pourable Joint Seal	26	0	0	26	0	26	3310
331		Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318
332		Timber Bridge Railing	18	18	0	0	0	0	3316

"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: 080013

Inspection Date: 06/09/2015

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	12	Reinforced Concrete Deck	439	113	300	26	0	326	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	18	17	0	1	0	1	3318	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 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
☒ Deck	1	12	Reinforced Concrete Deck	411	0	190	221	0	411	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	26	0	0	26	0	26	3310	☐ Requested

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 3

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	12	Reinforced Concrete Deck	411	240	1	170	0	171	3326	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	17	17	0	0	0	0	3316	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	26	0	0	26	0	26	3310	☐ Requested

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 4

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	12	Reinforced Concrete Deck	411	96	100	215	0	315	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	26	0	0	26	0	26	3310	☐ Requested

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 5

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	12	Reinforced Concrete Deck	439	239	0	200	0	200	3326	☐ Requested
☒ Bridge Rail	1	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	18	18	0	0	0	0	3318	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Beam	19	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	26	0	0	26	0	26	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 080013

Inspection Date: 06/09/2015

Span Number 1

Span	Deck	1	Component Name: Reinforced Concrete Deck									
Element: 12	Name	Reinforced Concrete Deck	Qty:	439	Lvl 2:	300	Lvl 3	26	Lvl 4	0	Maint. Qty	326
Defect Description:												

8 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" LONGITUDINAL CRACK IN WEST BOUND LANE
 18 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" LONGITUDINAL CRACK IN EAST BOUND LANE
 300 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE

Span	1	Bridge Rail	2	Component Name:		Concrete Railing							
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	18	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
Defect Description:													

1 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" CRACK AT RAIL POST 2

Span Number 2

Span	2	Deck	1	Component Name:		Reinforced Concrete Deck							
Element:	12	Name	Reinforced Concrete Deck	Qty:	411	Lvl 2:	190	Lvl 3	221	Lvl 4	0	Maint. Qty	411
Defect Description:													

34 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 2 17" X 1/8" LONGITUDINAL CRACKS IN EAST BOUND LANE
 190 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.
 187 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE MAP CRACKING

SPAN 1 RIGHT CURB CRACKED AT BENT 1

Span	2	Expansion Joints	1	Component Name:	Standard Joint								
Element:	301	Name	Pourable Joint Seal	Qty:	26	Lvl 2:	0	Lvl 3	26	Lvl 4	0	Maint. Qty	26
Defect Description:													

26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. JOINT MATERIAL MISSING , LEAKING

Span Number 3

Span	3	Deck	1	Component Name:		Reinforced Concrete Deck							
Element:	12	Name	Reinforced Concrete Deck	Qty:	411	Lvl 2:	1	Lvl 3	170	Lvl 4	0	Maint. Qty	171
Defect Description:													

20 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" LONGITUDINAL CRACK IN EAST BOUND LANE
 1 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SURFACE SPALL 3" DIAMETER X 1" DEEP IN EAST BOUND LANE
 150 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE MAP CRACKING

Span 3		Expansion Joints 1		Component Name:		Standard Joint							
Element: 301		Name Pourable Joint Seal		Qty: 26		Lvl 2: 0		Lvl 3: 26		Lvl 4: 0		Maint. Qty: 26	
Defect Description:													

26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BT 2 JOINT MATERIAL MISSING , LEAKING

Span Number 4

Structure Number: 080013

Inspection Date: 06/09/2015

Span	4	Deck	1	Component Name:	Reinforced Concrete Deck					
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Element: 12 Name Reinforced Concrete Deck Qty: 411 Lvl 2: 100 Lvl 3: 215 Lvl 4: 0 Maint. Qty: 315

Defect Description:

15 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/8" LONGITUDINAL CRACK IN EAST BOUND LANE

100 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.

200 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. HAIRLINE MAP CRACKING

Span	4	Expansion Joints	1	Component Name:	Standard Joint					
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Element: 301 Name Pourable Joint Seal Qty: 26 Lvl 2: 0 Lvl 3: 26 Lvl 4: 0 Maint. Qty: 26

Defect Description:

26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BENT 3 JOINT MATERIAL MISSING , LEAKING

Span Number 5

Span	5	Deck	1	Component Name:	Reinforced Concrete Deck					
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Element: 12 Name Reinforced Concrete Deck Qty: 439 Lvl 2: 0 Lvl 3: 200 Lvl 4: 0 Maint. Qty: 200

Defect Description:

200 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" TO 1/8" MAP CRACKING

Span	5	Expansion Joints	1	Component Name:	Standard Joint					
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Element: 301 Name Pourable Joint Seal Qty: 26 Lvl 2: 0 Lvl 3: 26 Lvl 4: 0 Maint. Qty: 26

Defect Description:

26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BENT 4 JOINT MATERIAL MISSING , LEAKING

Substructure Detailed Element Quantities

Structure Number: 080013

Inspection Date: 06/09/2015

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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	17	17	0	0	0	0	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	9	9	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	32	-1	32	1	0	32	3346	☐ Requested

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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	9	8	1	0	0	1	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	17	17	0	0	0	0	3344	☐ Requested

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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	17	15	0	2	0	2	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	9	9	0	0	0	0	3344	☐ Requested

Bent 3

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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	9	9	0	0	0	0	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	17	17	0	0	0	0	3344	☐ Requested

Bent 4

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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	17	17	0	0	0	0	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	9	8	1	0	0	1	3344	☐ 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
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	1	3344	☐ Requested
☒ Caps	1	235	Timber Pier Cap	9	9	0	0	0	0	3344	☐ Requested
☒ Caps	2	235	Timber Pier Cap	17	17	0	0	0	0	3344	☐ Requested
☒ Abutments	1	216	Timber Abutment	32	0	32	0	0	32	3346	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 080013

Inspection Date: 06/09/2015

End Bent 1

End Bent 1	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. W/D 2.0" AT END BENT 1.

PILE 1 AT END BENT 1 DECAYED 14" HIGH X 10" WIDE X 1" DEEP

End Bent 1	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. W/D 2.0" AT END BENT 1.

End Bent 1	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. W/D AT END BENT 1 2.0"

End Bent 1	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. W/D AT END BENT 1- 2.0"

END BENT 1 PILE 4 DECAYED 2' HIGH X 4" WIDE X 1" DEEP

End Bent 1	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 32 **Lvl 2:** 32 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 32
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. MAX. W/D AT ABUTMENT 1- 2.0"
 1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. TURNPILE AT
 SOUTHWEST CORNER DECAYED 4' HIGH X 6" WIDE X 3" DEEP

END BENT 1 TIMBER ABUTMENT DECAYED 4' AT SOUTHWEST CORNER

Bent 1	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".
 APROX. W/D AT BENT 1-2.5"

PILE 1 AT BENT 1 DECAYED 2' HIGH X 10" WIDE X 2" DEEP

Bent 1	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

SURFACE SOFT TO 1/8".

APROX. W/D AT BENT 1-2.5"

PILE 2 AT BENT 1 DECAYED 1' HIGH X 6" WIDE X 1 1/2" DEEP

Bent 1	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 1- 2.5"

Bent 1	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 1- 2.5"

BENT 1 PILE 4 DECAYED 2' HIGH X 14" WIDE X 2" DEEP ON SOUTH FACE

Bent 1	Row 1	Caps	1
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Element: 235 **Name** Timber Pier Cap **Qty:** 9 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section. DECAYED 11" WIDE X 11" HIGH X 6" DEEP ON NORTH END

Bent 2	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 2- 3.0"

PILE 1 AT BENT 2 DECAYED 14" HIGH X 14" WIDE X 2" DEEP

Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 2- 3.0"

Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 2- 3.0"

PILE 3 AT BENT 2 DECAYED 1' HIGH X 10" WIDE X 2" DEEP

Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 2- 3.0"

PILE 4 AT BENT 2 DECAYED 1' HIGH X 8" WIDE X 1" DEEP

Bent 2	Row 1	Caps	1
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Structure Number: 080013

Inspection Date: 06/09/2015

Element: 235 **Name** Timber Pier Cap **Qty:** 17 **Lvl 2:** 0 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

2 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. DECAYED ON SPAN 3 FACE AND NORTH END 2' LONG X 3" HIGH X 3" WIDE

Bent 3	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8"
APPROX. W/D AT BENT 3- 4.0"

PILE 1 AT BENT 3 DECAYED 14" HIGH X 12" WIDE X 2" DEEP

Bent 3	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8"
APPROX. W/D AT BENT 3- 4.0"

PILE 2 AT BENT 3 DECAYED 1' HIGH X 12" WIDE X 1" DEEP

Bent 3	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8"
APPROX. W/D AT BENT 3- 4.0"

Bent 3	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8".
APPROX. W/D AT BENT 3- 4.0"

PILE 4 AT BENT 3 DECAYED 14" HIGH X 10" WIDE X 1 1/2" DEEP

Bent 4	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8".
APPROX. W/D AT BENT 4- 3.0"

PILE 1 AT BENT 4 SURFACE DECAYED 16" HIGH X 10" WIDE X 1" DEEP

Bent 4	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8".
APPROX. W/D AT BENT 4- 3.0"

Bent 4	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 4- 3.0"

Bent 4	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT BENT 4- 3.0"

PILE 4 AT BENT 4 DECAYED 2' HIGH X 10" WIDE X 1 1/2" DEEP

PILE 4 AT BENT 4 SPAN 5 FACE DECAYED 1' HIGH X 8" WIDE X 2" DEEP

Bent 4	Row 1	Caps	2
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Element: 235 **Name** Timber Pier Cap **Qty:** 9 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

1 Feet of Decay/Section Loss: Affects less than 10% of the member section. SOUTH END OF BENT 4 CAP 2 HOLES 1 @ 3" DIAMETER X 7" DEEP AND 1 @ 2" W X 3" H X 6" DEEP

End Bent 2	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT END BENT 2- 2.0"

PILE 1 AT END BENT 2 SURFACE DECAYED 16" HIGH X 10" WIDE X 1" DEEP

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT END BENT 2- 2.0"

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT END BENT 2- 2.0"

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 1
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT END BENT 2- 2.0"

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 32 **Lvl 2:** 32 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty:** 32
Defect Description:

SURFACE SOFT TO 1/8".
APROX. W/D AT ABUTMENT 2- 2.0"

National Bridge and NC Inspection Items

Structure Number: 080013

Inspection Date: 06/09/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	4
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
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			
Slope Protection	G, F, P, or C		0	3352
Wingwall	G, F, P, or C	F	6	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		O		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Response to Live Load	G, F, P, or C	F		
Estimated Remaining Life	0 - 100 Years	5		

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	8
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N



TOP 3 WINGWALL BOARDS DECAYED AT SOUTHWEST CORNER 5 FT. MAINTENANCE



End Bent 1 Abutment/Backwall : 1 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review. TURNPILE AT SOUTHWEST CORNER DECAYED 4' HIGH X 6" WIDE X 3" DEEP



END BENT 1 TIMBER ABUTMENT DECAYED 4' AT SOUTHWEST CORNER



END BENT 1 PILE 4 DECAYED 2' HIGH X 4" WIDE X 1" DEEP



BENT 1 PILE 4 DECAYED 2' HIGH X 14" WIDE X 2" DEEP ON SOUTH FACE



PILE 2 AT BENT 1 DECAYED 1' HIGH X 6" WIDE X 1 1/2" DEEP



PILE 1 AT END BENT 1 DECAYED 14" HIGH X 10" WIDE X 1" DEEP



PILE 1 AT BENT 1 DECAYED 2' HIGH X 10" WIDE X 2" DEEP



Bent 1 Cap : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section. DECAYED 11" WIDE X 11" HIGH X 6" DEEP ON NORTH END



PILE 1 AT BENT 2 DECAYED 14" HIGH X 14" WIDE X 2" DEEP



Bent 2 Cap : 2 Feet of Decay/Section Loss: Affects 10% or more of the member but does not warrant structural review.
DECAYED ON SPAN 3 FACE AND NORTH END 2' LONG X 3" HIGH X 3" WIDE



PILE 3 AT BENT 2 DECAYED 1' HIGH X 10" WIDE X 2" DEEP



PILE 2 AT BENT 3 DECAYED 1' HIGH X 12" WIDE X 1" DEEP



PILE 1 AT BENT 3 DECAYED 14" HIGH X 12" WIDE X 2" DEEP



PILE 1 AT BENT 4 SURFACE DECAYED 16" HIGH X 10" WIDE X 1" DEEP



PILE 4 AT BENT 4 DECAYED 2' HIGH X 10" WIDE X 1 1/2" DEEP



Bent 4 Cap : 1 Feet of Decay/Section Loss: Affects less than 10% of the member section. SOUTH END OF BENT 4
CAP 2 HOLES 1 @ 3" DIAMETER X 7" DEEP AND 1 @ 2" W X 3" H X 6" DEEP



SOUTHWEST CORNER WINGWALL PILE DECAYED 2' HIGH X 14" WIDE X 2" DEEP 1 FT. MAINTENANCE



PILE 4 AT BENT 4 SPAN 5 FACE DECAYED 1' HIGH X 8" WIDE X 2" DEEP



PILE 1 AT END BENT 2 SURFACE DECAYED 16" HIGH X 10" WIDE X 1" DEEP



WEST APPROACH ASPHALT WEARING SURFACE SETTLED 2" IN WEST BOUND LANE WITH POT HOLE 16" WIDE X 8" LONG X 2" DEEP 20 SQ. FT. MAINTENANCE



Span 1 Deck: 8 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" LONGITUDINAL CRACK IN WEST BOUND LANE



Span 1 Deck: 18 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
1/16" LONGITUDINAL CRACK IN EAST BOUND LANE



Span 1 Right Bridge Rail: 1 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
1/16" CRACK AT RAIL POST 2



Span 1 Deck: 300 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. SCALING WITH EXPOSED AGGREGATE



Expansion Joint 2 : 26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. JOINT MATERIAL MISSING , LEAKING



Span 2 Deck: 34 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 2
17' X 1/8" LONGITUDINAL CRACKS IN EAST BOUND LANE



Span 2 Deck: 190 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but
the aggregate remains secure in the concrete.



Span 2 Deck: 187 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
HAIRLINE MAP CRACKING



SPAN 1 RIGHT CURB CRACKED AT BENT 1



Expansion Joint 3 : 26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BT 2 JOINT MATERIAL MISSING , LEAKING



Span 3 Deck: 20 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" LONGITUDINAL CRACK IN EAST BOUND LANE



Span 3 Deck: 1 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. SURFACE SPALL 3" DIAMETER X 1" DEEP IN EAST BOUND LANE



Span 3 Deck: 150 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
HAIRLINE MAP CRACKING



Expansion Joint 4 : 26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BENT 3 JOINT MATERIAL MISSING , LEAKING



Span 4 Deck: 15 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/8" LONGITUDINAL CRACK IN EAST BOUND LANE



Span 4 Deck: 100 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.



Span 4 Deck: 200 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.
HAIRLINE MAP CRACKING



Expansion Joint 5 : 26 Feet of Leakage: Moderate. More than a drip and less than free flow of water. BENT 4 JOINT MATERIAL MISSING , LEAKING



Span 5 Deck: 200 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. 1/16" TO 1/8" MAP CRACKING



EAST APPROACH ASPHALT WEARING SURFACE SETTLED 1" 20 SQ. FT. MAINTENANCE



EAST APPROACH ASPHALT WEARING SURFACE POT HOLE 16" WIDE X 10" LONG X 1" DEEP IN EAST BOUND LANE



VEGETATION OVER RAIL AT NORTHEAST CORNER 20 SQ. FT. BRUSH CONTROL



END BENT 1



SOUTH END OF BENT 1 CAP



SOUTH PROFILE



BENT 2



BENT 1



BENT 3



PILE 4 AT BENT 2 DECAYED 1' HIGH X 8" WIDE X 1" DEEP



PILE 4 AT BENT 3 DECAYED 14" HIGH X 10" WIDE X 1 1/2" DEEP



SUPERSTRUCTURE



UPSTREAM SOUTH, THRU SPAN 3



DOWNSTREAM NORTH, THRU SPAN 3



NORTH PROFILE



BENT 4



END BENT 2



LOOKING EAST (CENTER ROAD)



LOOKING EAST, POSTING



SOUTH PROFILE



NORTH PROFILE



NEW LEFT RAIL IN SPANS 1 AND 2



UPSTREAM SOUTH



DOWNSTREAM NORTH



LOOKING WEST



LOOKING WEST, POSTING

Run Date: 08/10/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	080013		SUFFICIENCY RATING =		38.62	
(8) STRUCTURE NUMBER(FEDERAL)		000000000170013		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011000					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	17	(4) PLACE CODE	0				
(6) FEATURE INTERSECTED -	CRAWLEY SWAMP						
(7) FACILITY CARRIED	SR1100						
(9) LOCATION	0.4MI.E. OF JCT. SR1122						
(11)MILEPOINT		0					
(16)LAT	34° 37' 6.02"	(17)LONG	78° 48' 2.78"				
(98)BORDER BRIDGE STATE CODE		PCT SHARE					
(99)BORDER BRIDGE STRUCTURE NO							
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION			
(43) STRUCTURE TYPE MAIN: Wood or Timber				(112)NBIS BRIDGE SYSTEM -		YES	
TYPE -	Stringer Multibeam or Girder	CODE	702	(104)HIGHWAY SYSTEM	Is not on NHS	0	
(44) STRUCTURE TYPE APPR :				(26) FUNCTIONAL CLASS -	Minor Collector	08	
TYPE -		CODE	000	(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT		5		(101)PARALLEL STRUCTURE -	No Parallel Structure	N	
(46) NUMBER OF APPROACH SPANS				(102)DIRECTION OF TRAFFIC -	2-way Traffic	2	
(107)DECK STRUCTURE TYPE -	1	CODE		(103)TEMPORARY STRUCTURE -			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network	0	
(A) TYPE OF WEARING SURFACE -		CODE		(20) TOLL	On Free Road	3	
(B) TYPE OF MEMBRANE -		CODE		(31) MAINTAIN -	State Highway Agency	01	
(C) TYPE OF DECK PROTECTION -		CODE		(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
AGE AND SERVICE				CONDITION			
(27) YEAR BUILT		1951		(58) DECK		5	
(106)YEAR RECONSTRUCTED				(59) SUPERSTRUCTURE		5	
(42) TYPE OF SERVICE : ON -	Highway			(60) SUBSTRUCTURE		4	
UNDER -	Waterway	CODE	15	(61) CHANNEL & CHANNEL PROTECTION		5	
(28) LANES: ON STRUCTURE	2	UNDER STRUCTURE	0	(62) CULVERTS		N	
(29) AVERAGE DAILY TRAFFIC		910					
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	6%	LOAD RATING AND POSTING			
(19) BYPASS OR DETOUR LENGTH		8 MI		(31) DESIGN LOAD	Unknown	0	
GEOMETRIC DATA				(63) OPERATING RATING METHOD -	Allowable Stress	2	
(48) LENGTH OF MAXIMUM SPAN		18 FT		(64) OPERATING RATING -	HS-18	32	
(49) STRUCTURE LENGTH		87 FT		(65) INVENTORY RATING METHOD -	Allowable Stress	2	
(50)CURB OR SIDEWALK: LEFT	.75 FT	RIGHT	.75 FT	(66) INVENTORY RATING -	HS-12	22	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT		(70) BRIDGE POSTING -	Posting Required	1	
(52) DECK WIDTH OUT TO OUT		25.37 FT		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		DESCRIPTION -	Posted for Load		
(33) BRIDGE MEDIAN -	No Median	CODE	0	APPRAISAL			
(34) SKEW	0°	(35) STRUCTURE FLARED	0	(67) STRUCTURAL EVALUATION		4	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(68) DECK GEOMETRY		4	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT		(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(71) WATERWAY ADEQUACY		7	
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad	000 FT		(36) TRAFFIC SAFETY FEATURES		0000	
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(113)SCOUR CRITICAL BRIDGES		U	
NAVIGATION DATA				PROPOSED IMPROVEMENTS			
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(75) TYPE OF WORK -		CODE	
(111)PIER PROTECTION -		CODE		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(39) NAVIGATION VERTICAL CLEARANCE		0		(94) BRIDGE IMPROVEMENT COST			
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		(95) ROADWAY IMPROVEMENT COST			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		(96) TOTAL PROJECT COST			
				(97) YEAR OF IMPROVEMENT COST ESTIMATE			
				(114)FUTURE ADT	1820	(115) YEAR FUTURE ADT	2025
INSPECTIONS							
(90) INSPECTION DATE				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
				A) FRACTURE CRIT DETAIL -	NO	A)	
				B) UNDERWATER INSP -	YES 48Mo	B)	11/06/2014
				C) OTHER SPECIAL INSP	NO	C)	
				SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 08/10/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
BLADEN	6	3	080013	87	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1100	CRAWLEY SWAMP

LOCATED :	BRIDGE NAME :	CITY :
0.4MI.E. OF JCT. SR1122		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
08	NFA	NFA	910 2013	LT 241 RT 241

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1951	SHPWC			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		9 FT		4		FT

SUPERSTRUCTURE : RC FLOOR ON TIMBER JOISTS

SUBSTRUCTURE : EBTS&IBTS:TIMBER CAPS ON TIMBER PILES @ VAR.CTS.

SPANS : 1@18'; 3@16.83'; 1@18'

BEAMS OR GIRDERS : 19 LINES 6X12 TIMBER JOISTS @ 1'4.25CTS.

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
5RC/NO AWS		25.37 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	25.5 FT	LT .75 FT RT .75 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-12	HS-18	Joist	SV 19	28	09/02/2008

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

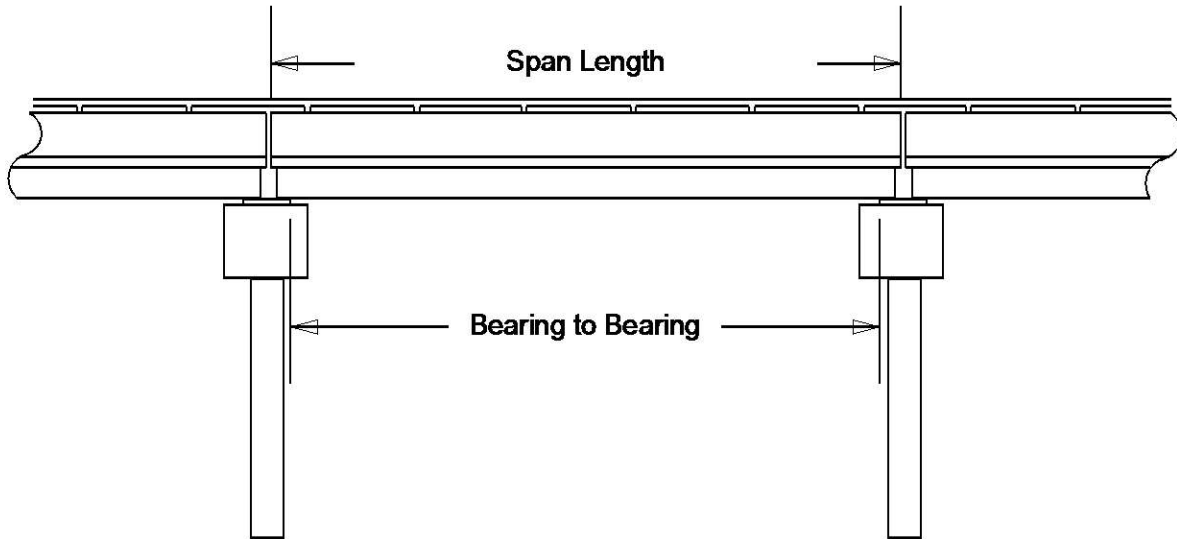
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: BLADEN Structure No: 080013 Date: _____ Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	18.0FT.	17.5FT.	NBIS 84.083 FT.
2	16.833FT.	16.833FT.	
3	16.833FT.	16.833FT.	
4	16.833FT.	16.833FT.	
5	18.0FT.	17.5FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 080013 County: BLADEN Date: _____ By: RLK

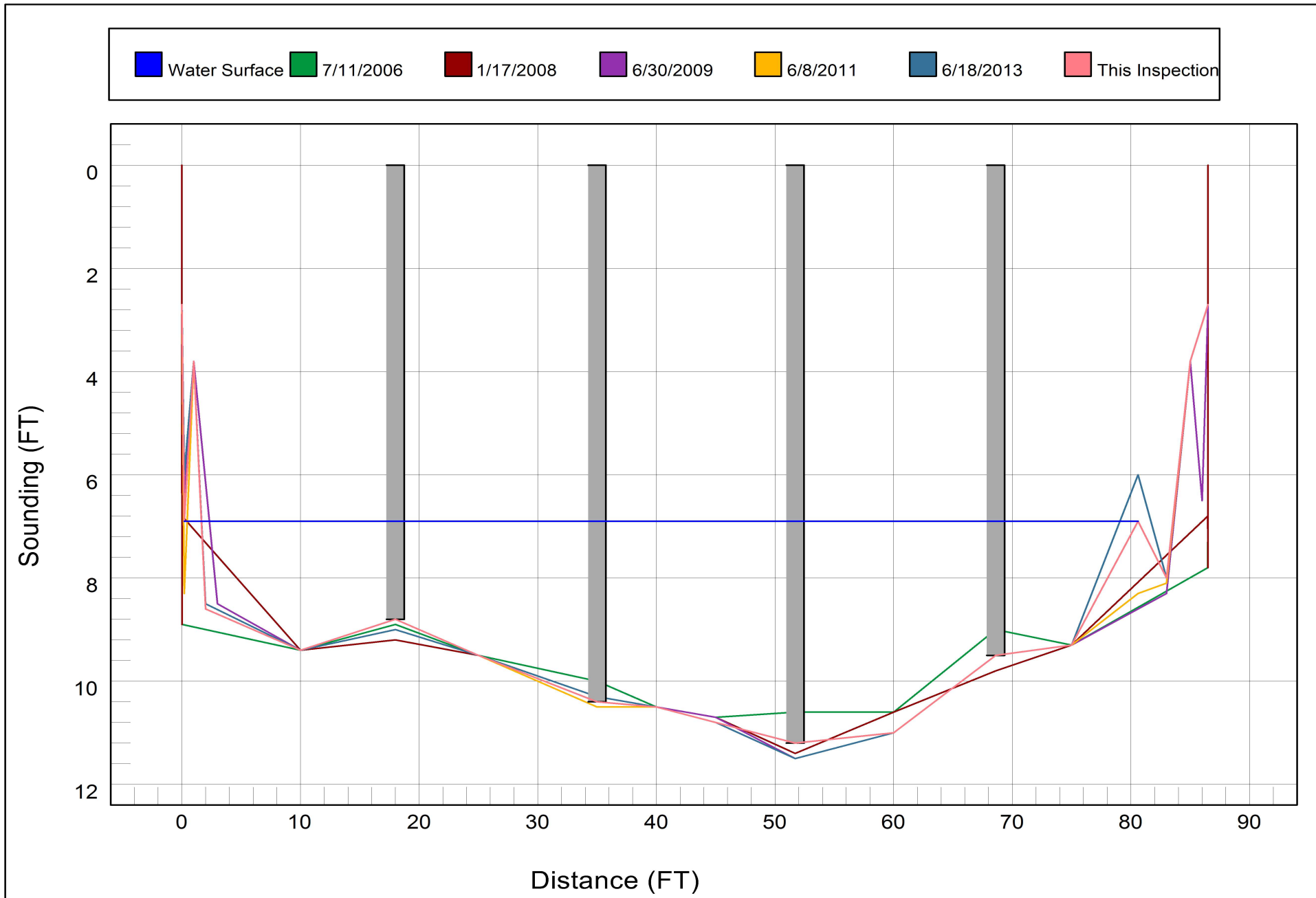
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 2.6 Location of Highwater Mark: ON DECK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	TOP OF BULKHEAD			
0.2	6.9	WSWE (NORTH)			
1	3.8	Top of Cap			
2	8.6	BED AT CAP	2	7.6	BED AT CAP
10	9.4				
18	8.8	BENT 1	18	8.4	BENT 1
25	9.5				
35	10.4	BENT 2	35	10.3	BENT 2
40	10.5				
45	10.8				
51.7	11.2	BENT 3	51.7	11.2	BENT 3
60	11	C/L OF STREAM			
68.6	9.5	BENT 4	68.6	9.4	BENT 4
75	9.3				
80.6	6.9	WSWE			
83	8	BED AT CAP	83	9	BED AT CAP
85	3.8	Top of Cap			
86.5	2.7	TOP OF BULKHEAD			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR-1100 (CENTER ROAD)



Roadway	18.00ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4.00ft Wide		4.00ft Unpaved
Right Shoulder	4.00ft Wide		4.00ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY RLK 6/8/11

MEASUREMENTS VERIFIED BY RLK 6/18/13

MEASUREMENTS VERIFIED BY RLK 6/9/15

Title

APPROACH ROADWAY

Description

LOOKING EAST

Bridge No: 080013

Drawn By: RBH

Date: 01/17/08

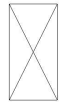
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Bridge Inspection Field Sketch

Deck Width/Out to Out	26.37ft	Wearing Surface	
Between Rails	25.50ft	Median Width	
Curb Height	.75ft	Median Height	
Top Rail to Deck/Wearing Surface	2.42ft	Left Guardrail Width	0.50ft
Clear Roadway	24.00ft	Right Guardrail Width	0.50ft
Left Bridge Rail	Type 24	Right Bridge Rail	Type 24

CHANGED OUT TO OUT, BEAM TO DECK OVERHANGS

MEASUREMENTS TAKEN TO EXTERIOR OF RAIL



SIMILAR JOIST
Joist Height= 0.96'
Joist Width= 0.49'

NOTE: JOIST 1, SPAN 2 AND JOIST 19 SPAN 4 ARE DAPPED ON BOTH ENDS

Measurements for Span #	1	SPANS 3 AND 5 SIMILAR	
Deck Thickness	.42	Left Overhang	1.48
Top of Rail to Bottom of Beam	3.79	Right Overhang	1.48

Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.35ft	
2	Timber (Rectangular)	1.38ft	
3	Timber (Rectangular)	1.38ft	
4	Timber (Rectangular)	1.23ft	
5	Timber (Rectangular)	1.40ft	
6	Timber (Rectangular)	1.35ft	
7	Timber (Rectangular)	1.35ft	
8	Timber (Rectangular)	1.35ft	
9	Timber (Rectangular)	1.31ft	
10	Timber (Rectangular)	1.38ft	
11	Timber (Rectangular)	1.33ft	
12	Timber (Rectangular)	1.33ft	
13	Timber (Rectangular)	1.29ft	
14	Timber (Rectangular)	1.35ft	
15	Timber (Rectangular)	1.38ft	
16	Timber (Rectangular)	1.31ft	
17	Timber (Rectangular)	1.40ft	
18	Timber (Rectangular)	1.50ft	
19	Timber (Rectangular)		

MEASUREMENTS VERIFIED BY RLK 6/8/11

MEASUREMENTS VERIFIED BY RLK 6/18/13

MEASUREMENTS REVISED BY RLK 6/9/15

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

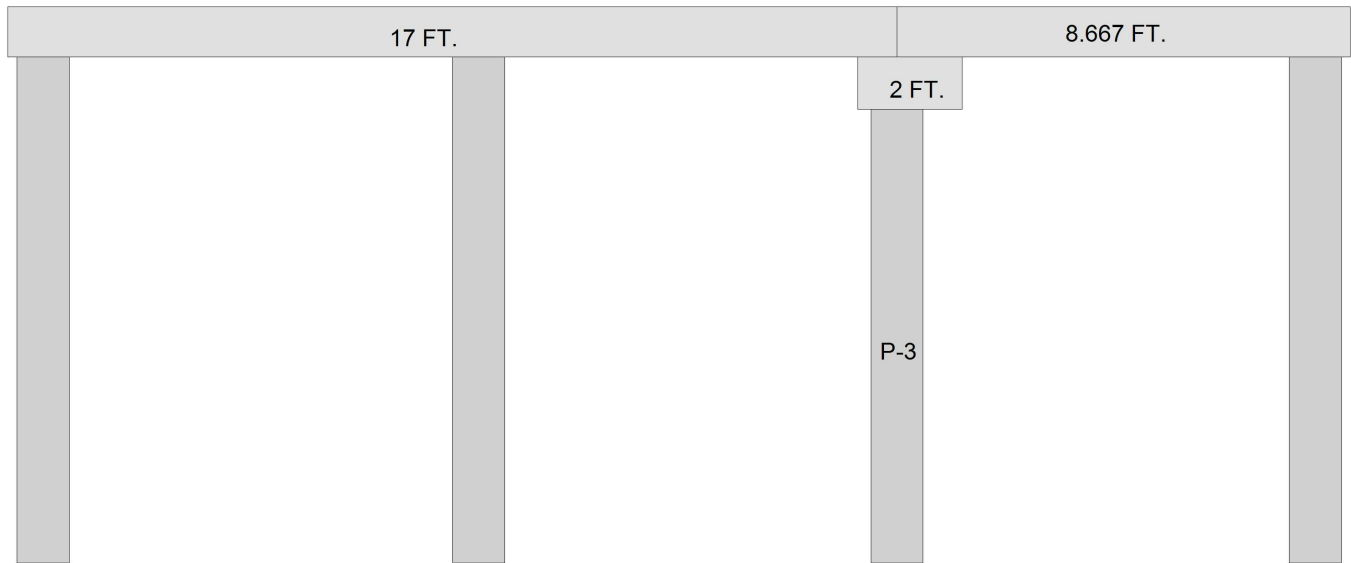
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Drawn By: RBH

Date: 01/17/08

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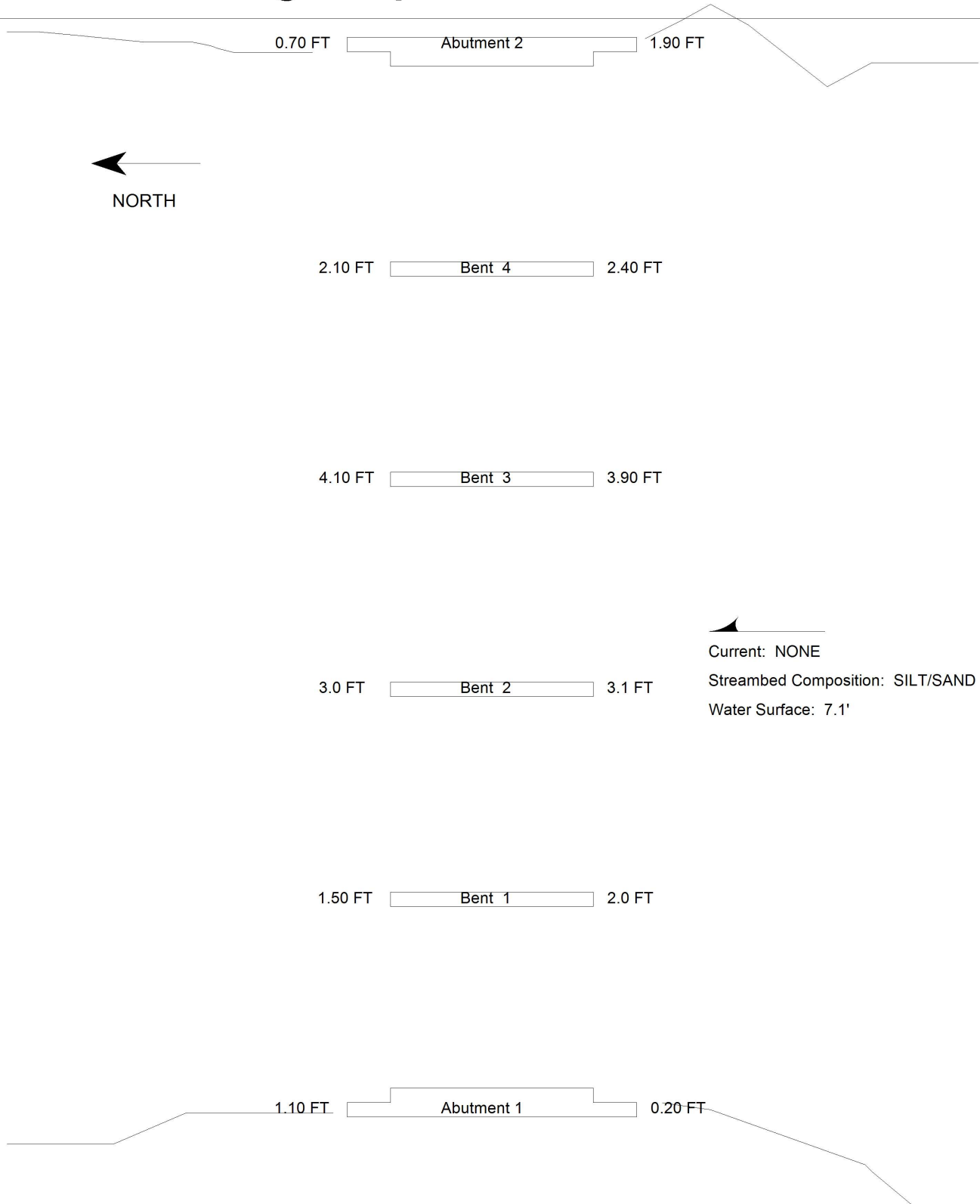
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.670 ft.	1.020 ft.	.960 ft.	.670 ft.	.670 ft.	.650 ft.	.650 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
2.000 ft.	1.000 ft.	1.000 ft.	.750 ft.	.750 ft.	0 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber		1 ft.			Vertical	Yes	No	No	No
2	Timber	8.333 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
NOTE: TIMBER CROSSBRACING AT INTERIOR BENTS										
Bent/Abutment #: 1 Similar Bents:										

Title		Description	
SUBSTRUCTURE		SIMILAR END AND INTERIOR BENT	
Bridge No: 080013	Drawn By: RLK	Date: 6/9/2015	File Name: S0290003713

Bridge Inspection Field Sketch



Title

PLAN VIEW

Description

TOP VIEW

Bridge No: 080013

Drawn By: RBH

Date: 01/17/08

File Name: S0178000233

Bridge Inspection Field Sketch

Deck Width/Out to Out	26.37ft	Between Rails	25.5ft
Clear Roadway	24ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left 0.75ft	Right 0.75ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left 0.917ft	Right 0.917ft
Top of Rail to Deck/Wearing Surface		Left 2.42ft	Right 2.42ft
Bridge Rail		Left Type 24	Right Type 24



Measurements for Span #	2	SPAN 4 SIMILAR	
Deck Thickness	0.42	Left Overhang	1.48
Top of Rail to Bottom of Beam	3.79	Right Overhang	1.48

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.5ft	
2	Timber (Rectangular)	1.4ft	
3	Timber (Rectangular)	1.31ft	
4	Timber (Rectangular)	1.38ft	
5	Timber (Rectangular)	1.35ft	
6	Timber (Rectangular)	1.29ft	
7	Timber (Rectangular)	1.33ft	
8	Timber (Rectangular)	1.33ft	
9	Timber (Rectangular)	1.38ft	
10	Timber (Rectangular)	1.31ft	
11	Timber (Rectangular)	1.35ft	
12	Timber (Rectangular)	1.35ft	
13	Timber (Rectangular)	1.35ft	
14	Timber (Rectangular)	1.40ft	
15	Timber (Rectangular)	1.23ft	
16	Timber (Rectangular)	1.38ft	
17	Timber (Rectangular)	1.38ft	
18	Timber (Rectangular)	1.35ft	
19	Timber (Rectangular)	ft	

Title
SUPERSTRUCTURE 2

Description
SPANS 2 AND 4

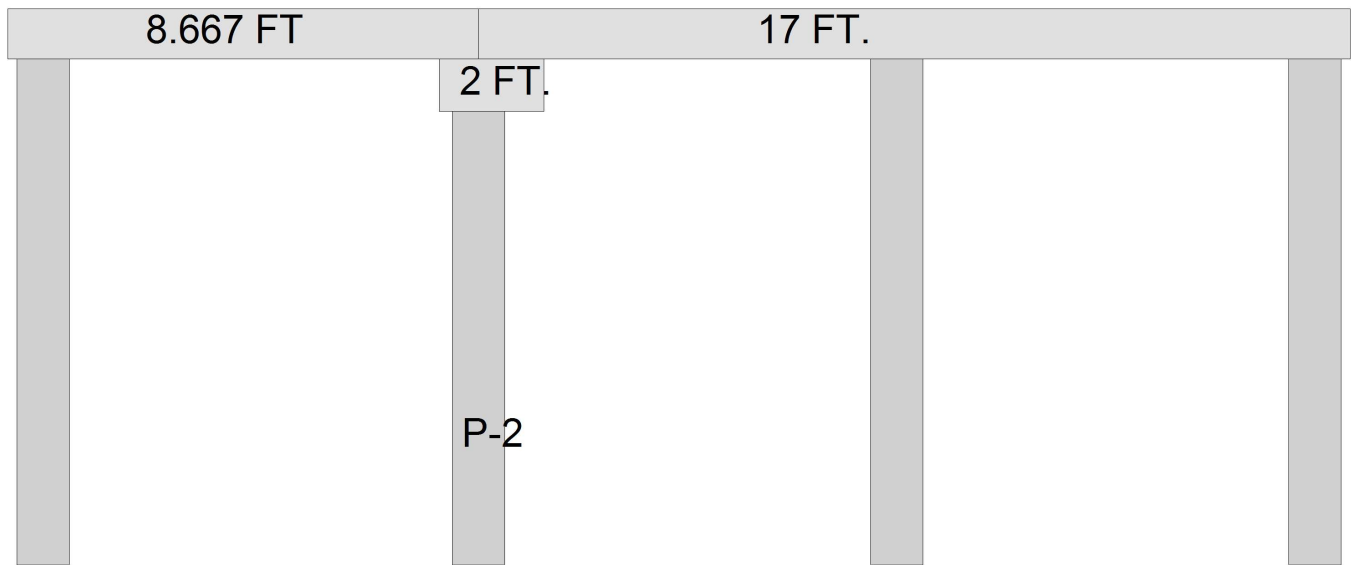
Bridge No: 080013

Drawn By: RLK

Date: 6/09/2015

File Name: S0094000122

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
25.670 ft.	1.020 ft.	.960 ft.	.670 ft.	.670 ft.	.650 ft.	.650 ft.				
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
2.000 ft.	1.000 ft.	1.000 ft.	.750 ft.	.750 ft.	0 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber		1 ft.			Vertical	Yes	No	No	No
2	Timber	8.33 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
NOTE: TIMBER CROSSBRACING AT INTERIOR BENTS										
Bent/Abutment #: 2 Similar Bents:										

Title SUBSTRUCTURE 2		Description END BENT 2 , INTERIOR BENTS 1 AND 3	
Bridge No: 080013	Drawn By: RLK	Date: 6/09/2015	File Name: S0094000123