



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **TEMPORARY REPAIRS. SCOUR CRITICAL.**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: HALIFAX STRUCTURE NUMBER: 410198 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1306 MILE POST: _____

LOCATION: 0.9 MI N JCT SR 1300

FEATURE INTERSECTED: BEAR SWAMP

LATITUDE: 36° 22' 19.2" LONGITUDE: 77° 51' 3.1"

SUPERSTRUCTURE: TIMBER DECK/TIMBER JOISTS

SUBSTRUCTURE: E.BTS&INT.BTS:TIMBER CAP/TIMBER PILES@6' CTS.

1@17'-2";1@16'-8";1@17'-2"

SPANS: 1@17'-2";1@16'-8";1@17'-2"

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 09/02/2015

POSTED SV: 10 POSTED TTST: 16

OTHER SIGNS PRESENT: (4) DELINEATORS



LOOKING NORTH

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 JILLA ISRAELNAIM	SIGNATURE <i>Jilla Israelnaim</i>	ASSISTED BY BYRON ATKINSON
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Span Element Report

Structure Number: 410198

Inspection Date: 09/02/2015

Span Number 1

Span Length 17.17 Feet

Number of Beams/Girders: 12

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	344	344	0	0	0	0	3324
111		Timber Open Girder/Beam	228	216	2	10	0	12	3304
216		Timber Abutment	26	13	8	5	0	13	3346
228		Timber Pile	4	4	0	0	0	0	3344
235		Timber Pier Cap	20	20	0	0	0	0	3344
332		Timber Bridge Railing	36	0	36	0	0	36	3316
510		Wearing Surface	330	0	0	330	0	330	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

Span Number 2

Span Length 16.67 Feet

Number of Beams/Girders: 14

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	334	334	0	0	0	0	3324
111		Timber Open Girder/Beam	252	252	0	0	0	0	3304
228		Timber Pile	4	4	0	0	0	0	3344
235		Timber Pier Cap	20	17	3	0	0	3	3344
332		Timber Bridge Railing	34	34	0	0	0	0	3316
510		Wearing Surface	320	0	0	320	0	320	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

Span Number 3

Span Length 17.17 Feet

Number of Beams/Girders: 11

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	344	344	0	0	0	0	3324
111		Timber Open Girder/Beam	209	209	0	0	0	0	3304
216		Timber Abutment	26	20	0	6	0	6	3346
228		Timber Pile	8	8	0	0	0	0	3344
235		Timber Pier Cap	41	41	0	0	0	0	3344
332		Timber Bridge Railing	36	36	0	0	0	0	3316
510		Wearing Surface	330	0	0	330	0	330	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: 410198

Inspection Date: 09/02/2015

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
<input checked="" type="checkbox"/> Deck	1	31	Timber Deck	344	344	0	0	0	0	3324	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	1	332	Timber Bridge Railing	18	0	18	0	0	18	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	2	332	Timber Bridge Railing	18	0	18	0	0	18	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Wearing Surfaces		510	Wearing Surface	330	0	0	330	0	330	2816	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	1	111	Timber Open Girder/Beam	19	9	0	10	0	10	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	2	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	3	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	4	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	5	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	6	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	7	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	8	111	Timber Open Girder/Beam	19	17	2	0	0	2	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	9	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	10	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	11	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	12	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested

Structure Number: 410198
 Span Number 2

Inspection Date: 09/02/2015

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
<input checked="" type="checkbox"/> Deck	1	31	Timber Deck	334	334	0	0	0	0	3324	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	1	332	Timber Bridge Railing	17	17	0	0	0	0	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	2	332	Timber Bridge Railing	17	17	0	0	0	0	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Wearing Surfaces		510	Wearing Surface	320	0	0	320	0	320	2816	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested

Structure Number: 410198
 Span Number 3

Inspection Date: 09/02/2015

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
<input checked="" type="checkbox"/> Deck	1	31	Timber Deck	344	344	0	0	0	0	3324	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	1	332	Timber Bridge Railing	18	18	0	0	0	0	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	2	332	Timber Bridge Railing	18	18	0	0	0	0	3316	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Wearing Surfaces		510	Wearing Surface	330	0	0	330	0	330	2816	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	1	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	2	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	3	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	4	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	5	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	6	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	7	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	8	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	9	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	10	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	11	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	<input type="checkbox"/> Requested

Superstructure Element Defect Descriptions

Structure Number: 410198

Inspection Date: 09/02/2015

Span Number 1

Span 1	Bridge Rail	1	Component Name:	Timber Rail
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Element: 332	Name Timber Bridge Railing	Qty: 18	Lvl 2: 18	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	18
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Defect Description:

LEFT RAIL:

17 Feet of Check/Shake (CS2): FULL LENGTH CHECK IN TIMBER CURB.

1 Feet of Split/Delamination (Timber) (CS2): FULL HEIGHT SPLIT IN POST 2.

Span 1	Bridge Rail	2	Component Name:	Timber Rail
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Element: 332	Name Timber Bridge Railing	Qty: 18	Lvl 2: 18	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	18
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Defect Description:

RIGHT RAIL:

18 Feet of Check/Shake (CS2): FULL LENGTH CHECK IN TIMBER CURB.

Span 1	Wearing Surfaces		Component Name:	Asphalt Wearing Surface
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Element: 510	Name Wearing Surface	Qty: 330	Lvl 2: 0	Lvl 3: 330	Lvl 4: 0	Maint. Qty: 0	330
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Defect Description:

330 Square Feet of Crack (Wearing Surface) (CS3): TRANSVERSE REFLECTIVE CRACKS UP TO 1/4" WIDE THROUGHOUT WEARING SURFACE.

Span 1	Beam	1	Component Name:	Timber Joist
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Element: 111	Name Timber Open Girder/Beam	Qty: 19	Lvl 2: 0	Lvl 3: 10	Lvl 4: 0	Maint. Qty: 0	10
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Defect Description:

10 Feet of Split/Delamination (Timber) (CS3): SPLIT IN EAST FACE 3 IN FROM TOP, BEGINNING AT MIDSPAN TO BENT 1.

Span 1	Beam	8	Component Name:	Timber Joist
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Element: 111	Name Timber Open Girder/Beam	Qty: 19	Lvl 2: 2	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	2
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Defect Description:

2 Feet of Decay/Section Loss (CS2): 14 IN OF END DECAY WITH CRUSHING UP TO 1 1/2" AT END BENT 1 CAP.

Span Number 2

Span 2	Wearing Surfaces		Component Name:	Asphalt Wearing Surface
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Element: 510	Name Wearing Surface	Qty: 320	Lvl 2: 0	Lvl 3: 320	Lvl 4: 0	Maint. Qty: 0	320
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Defect Description:

320 Square Feet of Crack (Wearing Surface) (CS3): TRANSVERSE REFLECTIVE CRACKS UP TO 1/4" WIDE THROUGHOUT WEARING SURFACE.

Span Number 3

Span 3	Wearing Surfaces		Component Name:	Asphalt Wearing Surface
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Element: 510	Name Wearing Surface	Qty: 330	Lvl 2: 0	Lvl 3: 330	Lvl 4: 0	Maint. Qty: 0	330
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Defect Description:

330 Square Feet of Crack (Wearing Surface) (CS3): TRANSVERSE REFLECTIVE CRACKS UP TO 1/4" WIDE THROUGHOUT WEARING SURFACE.

Substructure Detailed Element Quantities

Structure Number: 410198
End Bent 1

Inspection Date: 09/02/2015

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
<input checked="" type="checkbox"/> Abutments	1	216	Timber Abutment	26	13	8	5	0	13	3346	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	20	20	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	20	17	3	0	0	3	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> 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
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	21	21	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested

Structure Number: 410198

Inspection Date: 09/02/2015

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
<input checked="" type="checkbox"/> Abutments	1	216	Timber Abutment	26	20	0	6	0	6	3346	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	20	20	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested

Substructure Element Defect Descriptions

Structure Number: 410198

Inspection Date: 09/02/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 Name Timber Abutment Qty: 26 Lvl 2: 8 Lvl 3: 5 Lvl 4: 0 Maint. Qty 13

Defect Description:

5 Feet of Decay/Section Loss (CS3): 5 FT X 1 FT AREA OF DECAY IN RIGHT END.
8 Feet of Scour (CS2): 8 FT OF UNDERMINING AT RIGHT SIDE.

End Bent 1	Row 1	Caps	1
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Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM HORIZONTAL CHECKS THROUGHOUT CAP.

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

Defect Description:

CONCRETE COLLAR AT PILE 1 END BENT 1.

RANDOM CHECKS IN PILES 2 THRU 4 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: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

CONCRETE COLLAR AT PILE 3 END BENT 1.

Bent 1	Row 1	Caps	1
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Element: 235 Name Timber Pier Cap Qty: 20 Lvl 2: 3 Lvl 3: 0 Lvl 4: 0 Maint. Qty 3

Defect Description:

3 Feet of Decay/Section Loss (CS2): 3 FT OF CRUSHING AT TOP OF CAP AT BEAMS 4 AND 5 ON SPAN 1 SIDE.

RANDOM HORIZONTAL CHECKS THROUGHOUT CAP.

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

Defect Description:

RANDOM CHECKS IN PILES AT BENT 1.

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

Defect Description:

CONCRETE COLLAR AT PILE 4 BENT 1. COLLAR HAS CRACK ON WEST FACE.

Bent 2	Row 1	Caps	1
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Element: 235 Name Timber Pier Cap Qty: 21 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM HORIZONTAL CHECKS THROUGHOUT CAP.

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

Defect Description:

RANDOM CHECKS IN PILES AT BENT 2.

End Bent 2	Row 1	Abutments	1									
Element: 216	Name	Timber Abutment	Qty:	26	Lvl 2:	0	Lvl 3	6	Lvl 4	0	Maint. Qty	6
Defect Description:												

6 Feet of Decay/Section Loss (CS3): 6 FT X 2 FT AREA OF DECAY AT LEFT SIDE AT PILE 1.

End Bent 2	Row 1	Caps	1									
Element: 235	Name	Timber Pier Cap	Qty:	20	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

RANDOM HORIZONTAL CHECKS THROUGHOUT CAP.

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

RANDOM CHECKS IN PILES AT END BENT 2.

**BRIDGE INSPECTION RECORD AND SUMMARY
FOR SHORED STRUCTURES OR STRUCTURES
WITH TEMPORARY REPAIRS MADE TO KEEP
A BRIDGE OPEN**

BRIDGE: **410198**County **Halifax**DATE: **9/30/2013**

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	4	TSE
S I & A ITEM 64 OPERATING RATING		
S I & A ITEM 66 - INVENTORY RATING		

HS BY:
 HS BY:

*9/30/13***COMMENTS**

Piles 1 & 3 @ E. Bent 1 have been encased with concrete.

Temporary Repairs *Not Temp TMS 04/19/16*

National Bridge and NC Inspection Items

Structure Number: 410198

Inspection Date: 09/02/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
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	6

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			
Wingwall	G, F, P, or C	F	0	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			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	8		

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	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N



Span 1 Wearing Surface: TRANSVERSE REFLECTIVE CRACKS UP TO 1/4" WIDE THROUGHOUT WEARING SURFACE.



Span 1 Right Bridge Rail: FULL LENGTH CHECK IN TIMBER CURB.



End Bent 1 Abutment/Backwall : 5 FT X 1 FT AREA OF DECAY IN RIGHT END.



End Bent 1 Cap : RANDOM HORIZONTAL CHECKS THROUGHOUT CAP.



Span 1 Beam 8: 14 IN OF END DECAY WITH CRUSHING UP TO 1 1/2" AT END BENT 1 CAP.



End Bent 1 Abutment/Backwall : 8 FT OF UNDERMINING AT RIGHT SIDE.



Bent 1 Cap : 3 FT OF CRUSHING AT TOP OF CAP AT BEAMS 4 AND 5 ON SPAN 1 SIDE.



Span 1 Beam 1: SPLIT IN EAST FACE 3 IN FROM TOP, BEGINNING AT MIDSPAN TO BENT 1.



DRIFT ACCUMULATION AT BENT 1 BETWEEN PILES 3 AND 4



Bent 1 Pile 4: CONCRETE COLLAR IS CRACKED ON WEST FACE.



End Bent 2 Abutment/Backwall : 6 FT X 2 FT AREA OF DECAY AT LEFT SIDE AT PILE 1.



LOOKING NORTH



POSTING SIGN AT SOUTHEAST CORNER



TYPICAL RAIL, SOUTHEAST CORNER SHOWN



LOOKING DOWNSTREAM (EAST)



LOOKING UPSTREAM (WEST)



LOOKING SOUTH



UPSTREAM (WEST) PROFILE



DOWNSTREAM (EAST) PROFILE



BENT 2 PROFILE



END BENT 1 PROFILE



CONCRETE COLLAR AT PILE 4 BENT 1



CONCRETE COLLAR AT PILE 3 END BENT 1.



CONCRETE COLLAR AT PILE 1 END BENT 1.



BENT 1 PROFILE



UNDERDECK, SPAN 2 SHOWN.



END BENT 2 PROFILE



BULKHEAD REPAIR, WING PILE ADDITION AT LEFT SIDE OF END BENT 1.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 04/21/2016

COUNTY : HALIFAX DIVISION : 4 DISTRICT : 1 STRUCTURE NUMBER : 410198 LENGTH : 51 FEET

ROUTE CARRIED : SR1306 FEATURE INTERSECTED : BEAR SWAMP

LOCATED : 0.9 MI N JCT SR 1300 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 50 2000 RAIL TYPE : LT 227 RT 227

BUILT : 1958 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

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

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 10 FT WATER DEPTH : 5 FT

SUPERSTRUCTURE : TIMBER DECK ON TIMBER JOISTS

SUBSTRUCTURE : E.BTS & INT.BTS:TIMBER CAPS ON TIMBER PILES @ 6' CENTERS

SPANS : 1@17'-2", 1@16'-8", 1@17'-2"

BEAMS OR GIRDERS : SP#1:13 LINES, SP#2:14 LINES, SP#3:11 LINES 6"X12" TIMBER JOISTS @ VARIOUS CENTERS

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

CLEAR ROADWAY : 19.167 FT BETWEEN RAILS : 19.917 FT SIDEWALK OR CURB : LT .375 FT RT .375 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-7 OPE.RTG. : HS-11 CONTR.MEMBER : Joist POSTED : SV 10 TTST 16 DATE 09/16/2008

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

UNDER ROUTES AND CLEARANCES

REMARKS :

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	410198		SUFFICIENCY RATING =	52.35
(8) STRUCTURE NUMBER(FEDERAL)		00000000830198		STATUS =	Not Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013060			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION	
(3) COUNTY CODE	83	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - BEAR SWAMP				(104)HIGHWAY SYSTEM	Is not on NHS 0
(7) FACILITY CARRIED SR1306				(26) FUNCTIONAL CLASS - Local	09
(9) LOCATION 0.9 MI N JCT SR 1300				(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT			0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 36° 22' 19.20"	(17)LONG	77° 51' 3.10"		(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	
(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				CONDITION	
(43) STRUCTURE TYPE MAIN: Wood or Timber				(58) DECK	7
TYPE - Stringer Mutibeam or Girder		CODE	702	(59) SUPERSTRUCTURE	5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE	5
TYPE -		CODE	000	(61) CHANNEL & CHANNEL PROTECTION	7
(45) NUMBER OF SPANS IN MAIN UNIT			3	(62) CULVERTS	N
(46) NUMBER OF APPROACH SPANS				LOAD RATING AND POSTING	
(107)DECK STRUCTURE TYPE - 8		CODE		(31) DESIGN LOAD	Unknown 0
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(63) OPERATING RATING METHOD - Allowable Stress	2
(A) TYPE OF WEARING SURFACE -		CODE		(64) OPERATING RATING - HS-11	19
(B) TYPE OF MEMBRANE -		CODE		(65) INVENTORY RATING METHOD - Allowable Stress	2
(C) TYPE OF DECK PROTECTION -		CODE		(66) INVENTORY RATING - HS-7	13
				(70) BRIDGE POSTING - Posting Required	0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED DESCRIPTION - Posted for Load	P
AGE AND SERVICE				APPRAISAL	
(27) YEAR BUILT			1958	(67) STRUCTURAL EVALUATION	4
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY	4
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ	N
UNDER - Waterway		CODE	15	(71) WATERWAY ADEQUACY	7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE			0	(72) APPROACH ROADWAY ALIGNMENT	6
(29) AVERAGE DAILY TRAFFIC			50	(36) TRAFFIC SAFETY FEATURES	0000
(30) YEAR OF ADT 2000	(109) TRUCK ADT PCT		%	(113)SCOUR CRITICAL BRIDGES	U
(19) BYPASS OR DETOUR LENGTH			1 MI	PROPOSED IMPROVEMENTS	
GEOMETRIC DATA				(75) TYPE OF WORK -	CODE
(48) LENGTH OF MAXIMUM SPAN			17 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(49) STRUCTURE LENGTH			51 FT	(94) BRIDGE IMPROVEMENT COST	
(50)CURB OR SIDEWALK: LEFT .375 FT RIGHT .375 FT				(95) ROADWAY IMPROVEMENT COST	
(51) BRIDGE ROADWAY WMDTH CURB TO CURB			19.167 FT	(96) TOTAL PROJECT COST	
(52) DECK WIDTH OUT TO OUT			20.083 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(32) APPROACH ROADWAY WMDTH (W/SHOULDERS)			20 FT	(114)FUTURE ADT 100	(115) YEAR FUTURE ADT 2025
(33) BRIDGE MEDIAN - No Median		CODE	0	INSPECTIONS	
(34) SKEW 0°	(35) STRUCTURE FLARED		0	(90) INSPECTION DATE	09/02/2015
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			19.167 FT	A) FRACTURE CRIT DETAIL - NO	A)
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	B) UNDERWATER INSP - NO	B)
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad			0 FT	C) OTHER SPECIAL INSP NO	C)
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad			000 FT	SCOUR	
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	NAVIGATION DATA	
(38) NAVIGATION CONTROL - No Navigational Control		CODE	0	(99) NAVIGATION VERTICAL CLEARANCE	0
(111)PIER PROTECTION -		CODE		(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT
(39) NAVIGATION VERTICAL CLEARANCE			0	(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT		
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT		

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	410198		SUFFICIENCY RATING =			38.99
(8) STRUCTURE NUMBER(FEDERAL)		00000000830198		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013060					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1					
(3) COUNTY CODE	83	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - BEAR SWAMP				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED SR1306				(26) FUNCTIONAL CLASS -	Local		09
(9) LOCATION 0.9 MI N JCT SR 1300				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 36° 22' 19.20"	(17)LONG	77° 51' 3.10"		(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				CONDITION			
(43) STRUCTURE TYPE MAIN: Wood or Timber				(58) DECK			7
TYPE - Stringer Multibeam or Girder	CODE	702		(59) SUPERSTRUCTURE			5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			4
TYPE -	CODE	000		(61) CHANNEL & CHANNEL PROTECTION			7
(45) NUMBER OF SPANS IN MAIN UNIT		3		(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - 8	CODE			LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Unknown		0
(A) TYPE OF WEARING SURFACE -	CODE			(63) OPERATING RATING METHOD -	Allowable Stress		2
(B) TYPE OF MEMBRANE -	CODE			(64) OPERATING RATING -	HS-1		1
(C) TYPE OF DECK PROTECTION -	CODE			(65) INVENTORY RATING METHOD -	Allowable Stress		2
				(66) INVENTORY RATING -	HS-1		1
				(70) BRIDGE POSTING -	Posting Required		0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1958		(67) STRUCTURAL EVALUATION			3
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			4
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ			N
UNDER - Waterway	CODE	15		(71) WATERWAY ADEQUACY			7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(72) APPROACH ROADWAY ALIGNMENT			6
(29) AVERAGE DAILY TRAFFIC		50		(36) TRAFFIC SAFETY FEATURES			0000
(30) YEAR OF ADT 2000	(109) TRUCK ADT PCT	%		(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH		1 MI		PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -			CODE
(48) LENGTH OF MAXIMUM SPAN		17 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH		51 FT		(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT .375 FT RIGHT .375 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		19.167 FT		(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT		20.083 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT		(114)FUTURE ADT 100	(115) YEAR FUTURE ADT	2025	
(33) BRIDGE MEDIAN - No Median	CODE	0		INSPECTIONS			
(34) SKEW 0°	(35) STRUCTURE FLARED	0		(90) INSPECTION DATE			09/02/2015
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		19.167 FT		A) FRACTURE CRIT DETAIL -	NO		A)
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		B) UNDERWATER INSP -	NO		B)
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		C) OTHER SPECIAL INSP	NO		C)
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA							
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0					
(111)PIER PROTECTION -	CODE						
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT						
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 04/15/2016

COUNTY : HALIFAX DIVISION : 4 DISTRICT : 1 STRUCTURE NUMBER : 410198 LENGTH : 51 FEET

ROUTE CARRIED : SR1306 FEATURE INTERSECTED : BEAR SWAMP

LOCATED : 0.9 MI N JCT SR 1300 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 50 2000 RAIL TYPE : LT 227 RT 227

BUILT : 1958 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

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

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 10 FT WATER DEPTH : 5 FT

SUPERSTRUCTURE : TIMBER DECK ON TIMBER JOISTS

SUBSTRUCTURE : E.BTS & INT.BTS:TIMBER CAPS ON TIMBER PILES @ 6' CENTERS

SPANS : 1@17'-2", 1@16'-8', 1@17'-2"

BEAMS OR GIRDERS : SP#1:13 LINES, SP#2:14 LINES, SP#3:11 LINES 6"X12" TIMBER JOISTS @ VARIOUS CENTERS

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

CLEAR ROADWAY : 19.167 FT BETWEEN RAILS : 19.917 FT SIDEWALK OR CURB : LT .375 FT RT .375 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : Joist POSTED : SV 10 TTST 16 DATE 09/16/2008

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

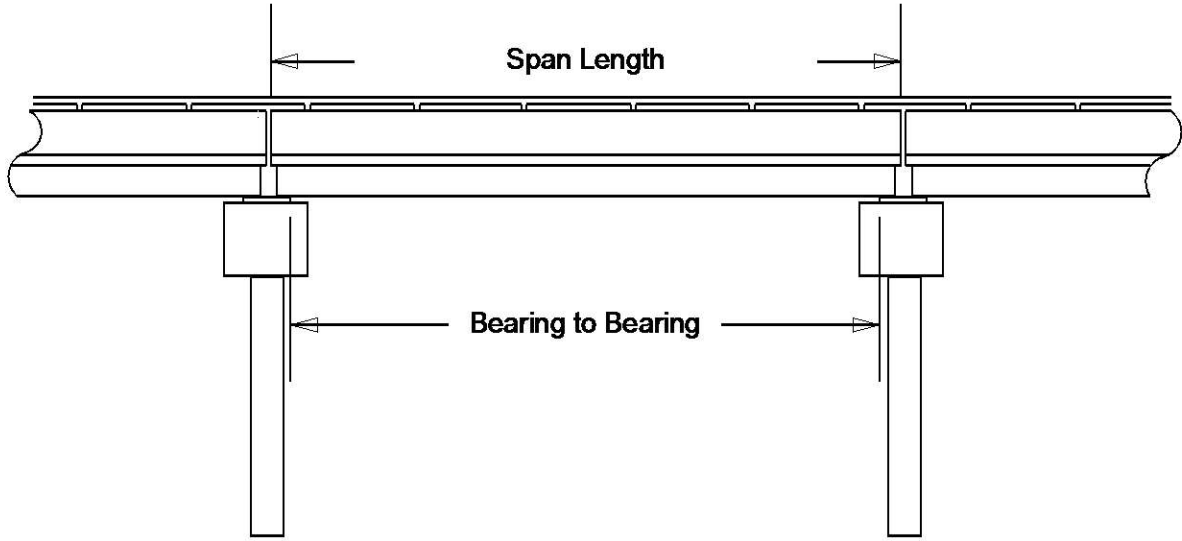
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: HALIFAX Structure No: 410198 Date: _____ Inspected By: JSI



Span No	Span Length	Bearing to Bearing	Comments
1	17.17'	16.5'	NBIS LENGTH = 48'-10"
2	16.67'	16.167'	
3	17.17'	16.5'	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 410198 County: HALIFAX Date: _____ By: JSI

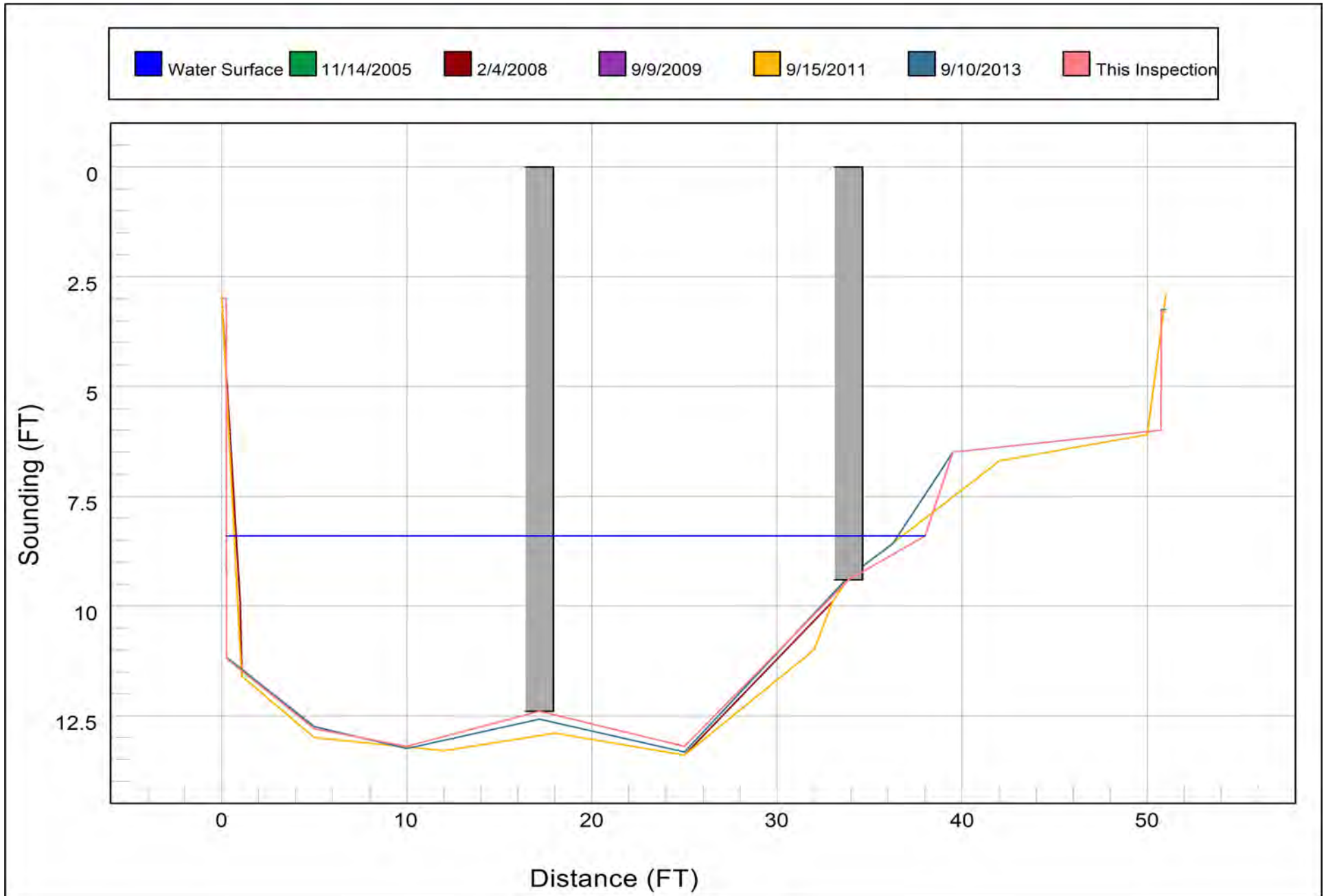
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 6 Location of Highwater Mark: DEBRIS ON BANK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FILL FACE			
0.25	3				
0.26	8.4	Water Surface/Water Edge (WSWE)			
0.27	11.2		0.27	7.7	
5	12.8				
10	13.2				
17.17	12.4	BENT 1	17.17	10.8	BENT 1
25	13.2				
33.87	9.4	BENT 2	33.87	12.5	BENT 2
38	8.4	Water Surface/Water Edge (WSWE)			
39.5	6.5				
50.74	6		50.74	6.4	
50.75	3.3				
51	3.3	FILL FACE			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	20ft Wide	2 Unpaved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED JSI 9/02/15
VERIFIED FER 9/10/13

Title
APPROACH ROADWAY

Description
SOUTH APPROACH, LOOKING NORTH

Bridge No: 410198

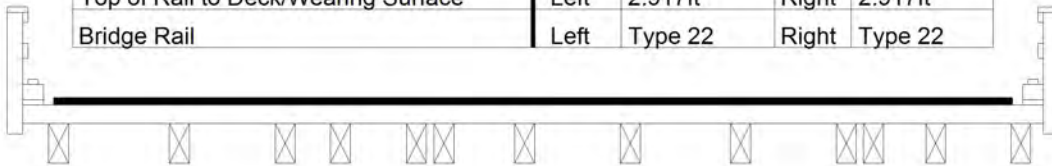
Drawn By: HMS

Date: 09/10/13

File Name: S0026001416

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.083ft	Between Rails	19.917ft
Clear Roadway	19.167ft	Wearing Surface	0.125ft
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	Right
Top of Rail to Deck/Wearing Surface		Left 2.917ft	Right 2.917ft
Bridge Rail		Left Type 22	Right Type 22



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.708
Top of Rail to Bottom of Beam	4.417	Right Overhang	0.667

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	2.375ft	ALL BEAMS 6"x 11-1/2"
2	Timber (Rectangular)	2.083ft	REPLACEMENT
3	Timber (Rectangular)	1.083ft	
4	Timber (Rectangular)	1.500ft	REPLACEMENT
5	Timber (Rectangular)	0.542ft	
6	Timber (Rectangular)	1.583ft	REPLACEMENT
7	Timber (Rectangular)	2.083ft	REPLACEMENT
8	Timber (Rectangular)	2.167ft	
9	Timber (Rectangular)	2.083ft	REPLACEMENT
10	Timber (Rectangular)	0.583ft	
11	Timber (Rectangular)	1.583ft	REPLACEMENT
12	Timber (Rectangular)	1.667ft	REPLACEMENT
13	Timber (Rectangular)		

VERIFIED JSI 9/02/15

Title

TYPICAL SECTION SPAN 1

Description

SPAN 1, LOOKING NORTH

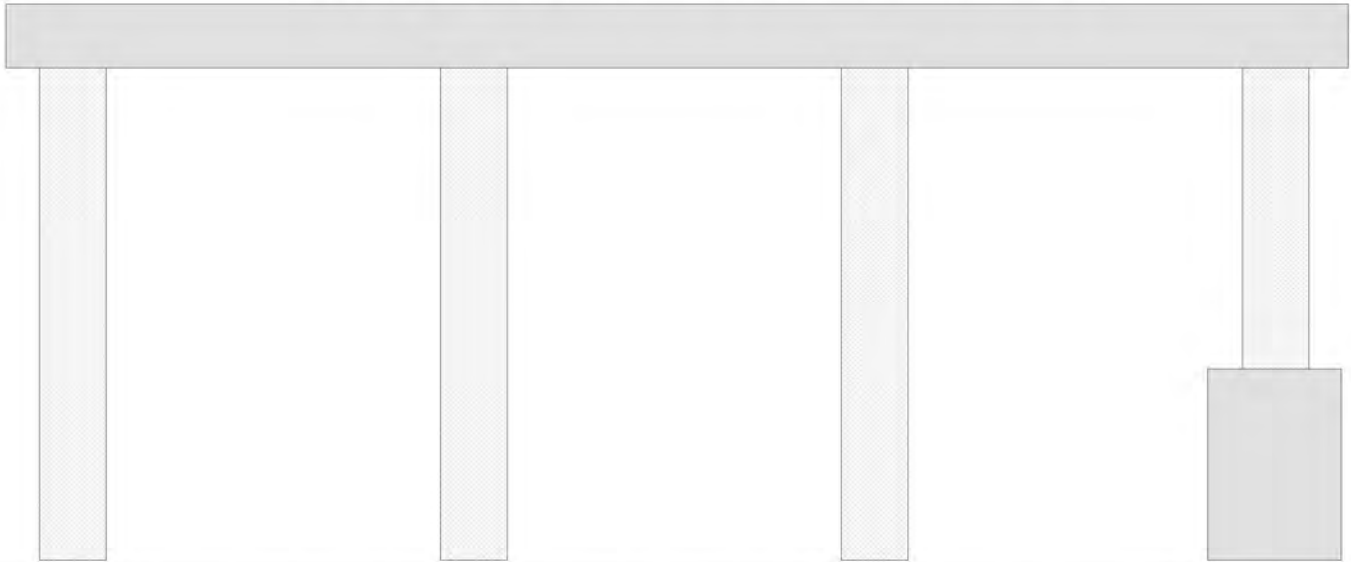
Bridge No: 410198

Drawn By: HMS

Date: 09/10/13

File Name: S0026001417

Bridge Inspection Field Sketch

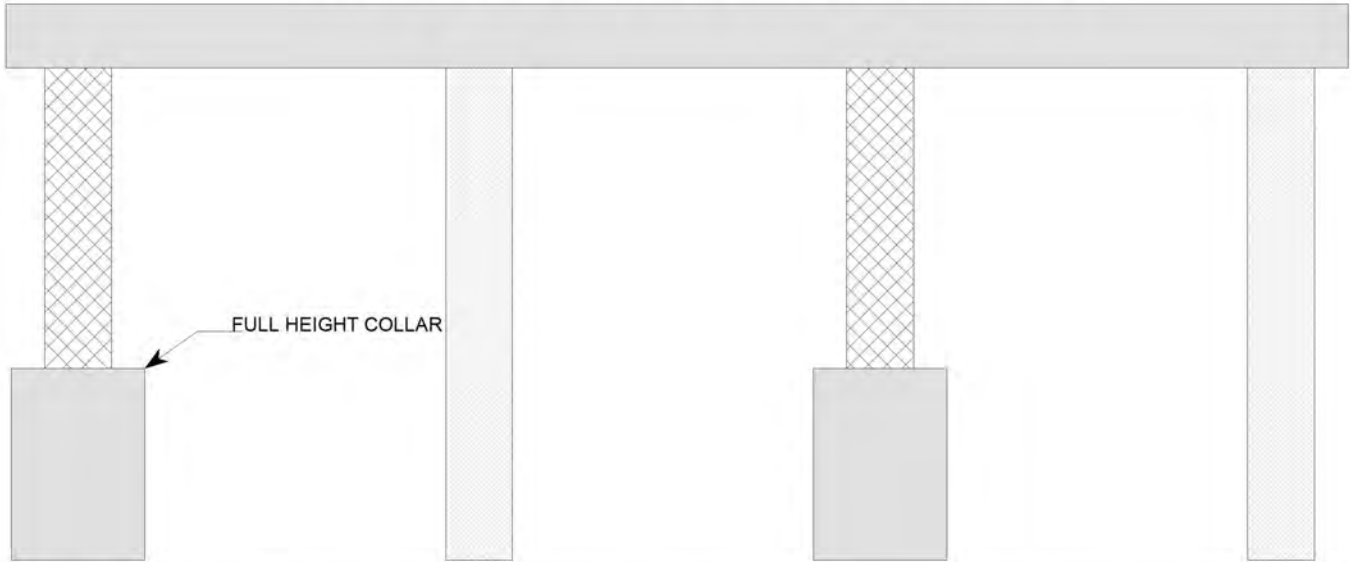


Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20' - 0"	.833 ft.	.958 ft.	1.000 ft.	1.000 ft.	.670 ft.	.670 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	6 ft.	1 ft.			Vertical	No	No	No	No
4	Timber		1 ft.			Vertical	No	No	No	Yes
Bent/Abutment #: 1			Similar Bents:							

UPDATED JSI 9/02/15

Title		Description			
SUBSTRUCTURE BENT 1		BENT 1, LOOKING NORTH			
Bridge No: 410198	Drawn By: HMS	Date: 09/10/13	File Name: S0026001418		

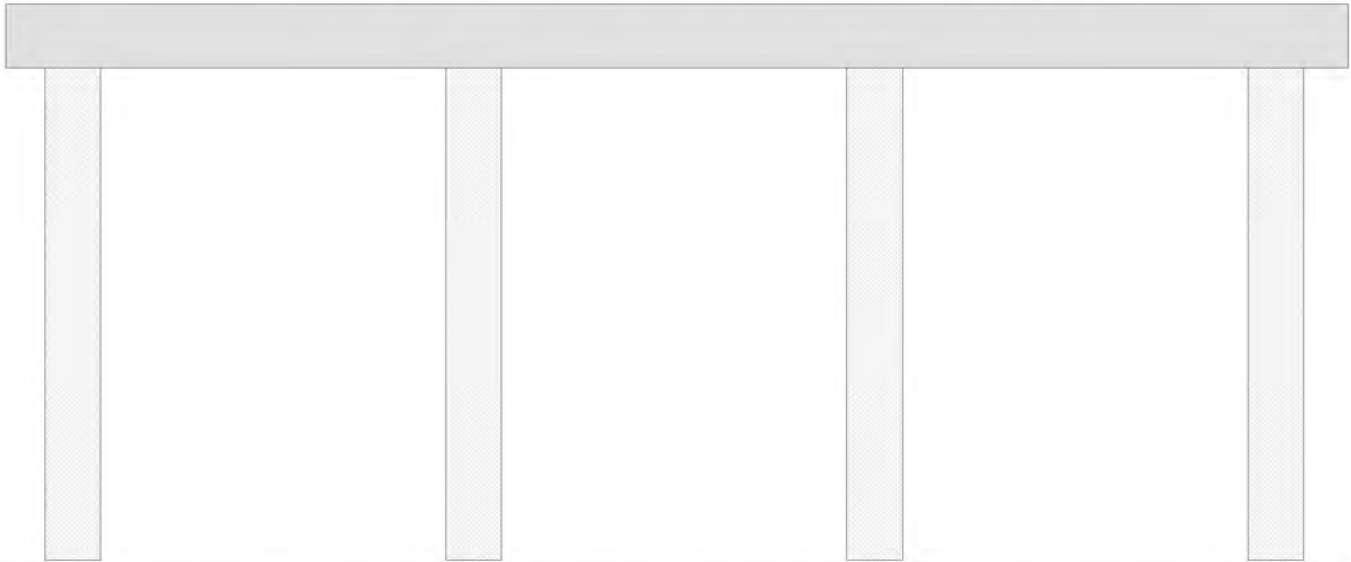
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
19.833 ft.	.833 ft.	.958 ft.	1.083 ft.	.750 ft.	.580 ft.	.670 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	1 ft.				No	Yes	No	Yes
2	Timber	6 ft.	1 ft.				No	No	No	No
3	Timber	6 ft.	1 ft.				No	Yes	No	Yes
4	Timber		1 ft.				No	No	No	No
VERIFIED JSI 9/02/15										
Bent/Abutment #: 1			Similar Bents:							

Title			Description				
SUBSTRUCTURE			END BENT 1, LOOKING NORTH				
Bridge No:	410198	Drawn By:	HMS	Date:	9/10/2013	File Name:	S0454000126

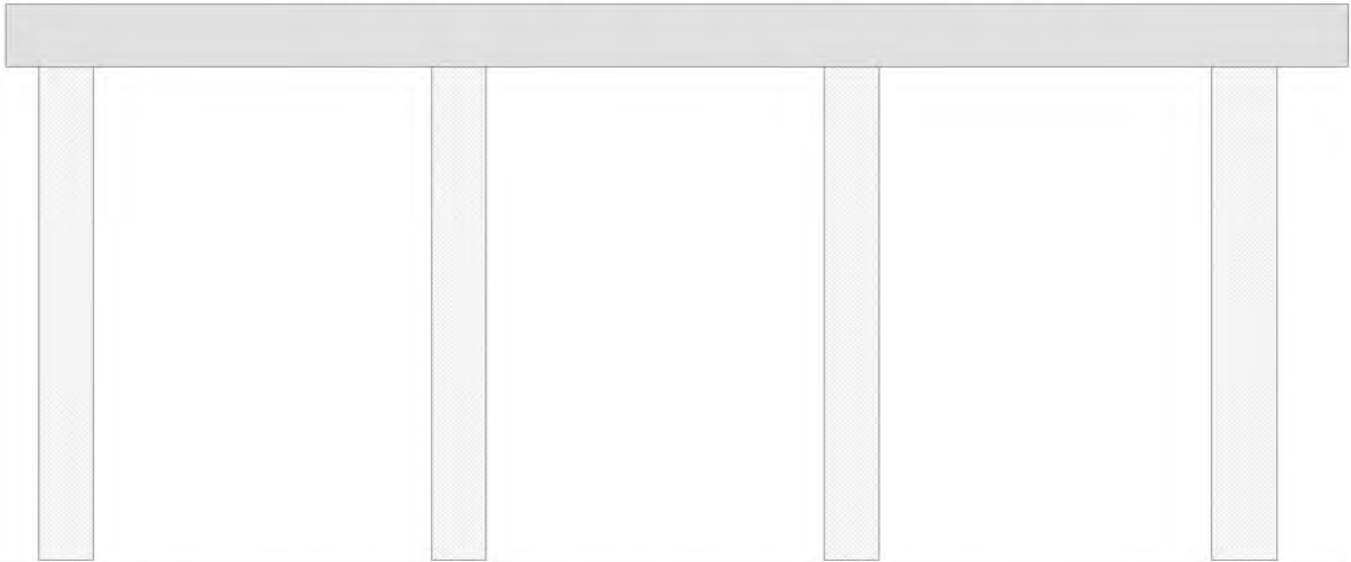
Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.25 ft.	.833 ft.	.958 ft.	1.000 ft.	1.250 ft.	.670 ft.	.670 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
2	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
3	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
4	Timber		.833 ft.			Vertical	No	No	No	No
VERIFIED JSI 9/02/15										
Bent/Abutment #: 2			Similar Bents:							

Title				Description			
SUBSTRUCTURE				END BENT 2, LOOKING NORTH			
Bridge No:	410198	Drawn By:	HMS	Date:	9/10/2013	File Name:	S0454000127

Bridge Inspection Field Sketch

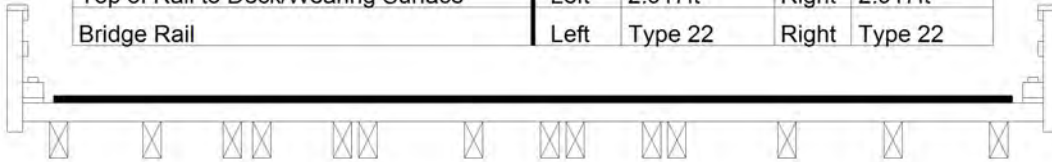


Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
20.0 ft.	.833 ft.	0.958 ft.	.917 ft.	1.083 ft.	.583 ft.	.670 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
2	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
3	Timber	6 ft.	.833 ft.			Vertical	No	No	No	No
4	Timber		1 ft.			Vertical	No	No	No	No
VERIFIED JSI 9/02/15										
Bent/Abutment #: 2			Similar Bents:							

Title SUBSTRUCTURE			Description BENT 2, LOOKING NORTH		
Bridge No: 410198	Drawn By: HMS	Date: 9/10/2013	File Name: S0454000128		

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.083ft	Between Rails	19.917ft
Clear Roadway	19.167ft	Wearing Surface	0.125ft
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	Right
Top of Rail to Deck/Wearing Surface		Left 2.917ft	Right 2.917ft
Bridge Rail		Left Type 22	Right Type 22



Measurements for Span #	2		
Deck Thickness	0.312	Left Overhang	0.708
Top of Rail to Bottom of Beam	4.417	Right Overhang	0.667

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.833ft	ALL BEAMS 6"x 11-1/2" (REPLACEMENT)
2	Timber (Rectangular)	1.583ft	REPLACEMENT
3	Timber (Rectangular)	0.583ft	REPLACEMENT
4	Timber (Rectangular)	1.583ft	
5	Timber (Rectangular)	0.500ft	REPLACEMENT
6	Timber (Rectangular)	2.083ft	
7	Timber (Rectangular)	1.500ft	
8	Timber (Rectangular)	0.500ft	REPLACEMENT
9	Timber (Rectangular)	1.500ft	
10	Timber (Rectangular)	0.500ft	REPLACEMENT
11	Timber (Rectangular)	2.167ft	
12	Timber (Rectangular)	2.083ft	REPLACEMENT
13	Timber (Rectangular)	2.083ft	REPLACEMENT
14	Timber (Rectangular)	ft	REPLACEMENT

VERIFIED JSI 9/02/15

Title
TYPICAL SECTION

Description
SPAN 2, LOOKING NORTH

Bridge No: 410198

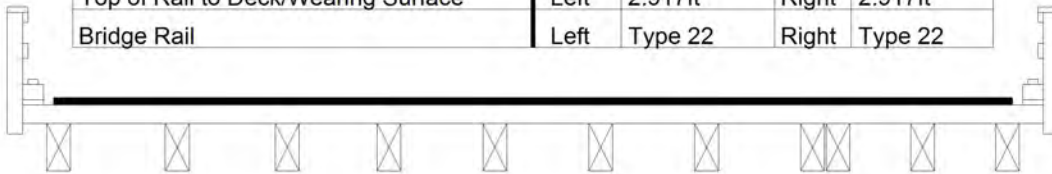
Drawn By: HMS

Date: 9/10/2013

File Name: S0454000129

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.083ft	Between Rails	19.917ft
Clear Roadway	19.167ft	Wearing Surface	0.125ft
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	Right
Top of Rail to Deck/Wearing Surface		Left 2.917ft	Right 2.917ft
Bridge Rail		Left Type 22	Right Type 22



Measurements for Span #	3		
Deck Thickness	0.312	Left Overhang	0.708
Top of Rail to Bottom of Beam	4.417	Right Overhang	0.667

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	2.333ft	ALL JOISTS 6"x11-1/2"
2	Timber (Rectangular)	2.167ft	REPLACEMENT
3	Timber (Rectangular)	2.000ft	REPLACEMENT
4	Timber (Rectangular)	2.083ft	
5	Timber (Rectangular)	2.083ft	REPLACEMENT
6	Timber (Rectangular)	2.083ft	
7	Timber (Rectangular)	2.083ft	REPLACEMENT
8	Timber (Rectangular)	0.500ft	
9	Timber (Rectangular)	1.667ft	REPLACEMENT
10	Timber (Rectangular)	1.667ft	REPLACEMENT
11	Timber (Rectangular)	ft	

VERIFIED JSI 9/02/15

Title

TYPICAL SECTION

Description

SPAN 3, LOOKING NORTH

Bridge No: 410198

Drawn By: HMS

Date: 9/10/2013

File Name: S0454000130