



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

PRIORITY MAINTENANCE: TIMBER PILES.
TEMPORARY REPAIRS. NEW AWS. NEW CRUTCH
BENTS AT BENT 3.

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: HALIFAX STRUCTURE NUMBER: 410134 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1310 MILE POST:

LOCATION: 1.8MI.W.JCT.NC48

FEATURE INTERSECTED: BEAR SWAMP

LATITUDE: 36° 20' 4.92" LONGITUDE: 77° 50' 37.3"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOIST&I-BEAMS

SUBSTRUCTURE: E.BTS&INT.BTS:TIMBER CAP/TIMBER PILES @ VAR.CTS. AND STEEL CRUTCH BENTS
E.BTS&INT.BTS:TIMBER CAP/TIMBER PILES @ VAR.CTS.

SPANS: 1@17.5';1@17.17';1@39';1@17.42'

☐ FRACTURE CRITICAL ☒ TEMPORARY SHORING ☒ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION

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

POSTED SV: 20 POSTED TTST: 29

OTHER SIGNS PRESENT: (4) DELINEATORS



LOOKING EAST

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
BYRON ATKINSON

SIGNATURE

Byron Atkinson

ASSISTED BY JILLA ISRAELNAIM

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

BRIDGE: **410134** County **Halifax** DATE: **2/24/2014**

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 <i>2/24/14</i>
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

COMMENTS

Some piles have been encased with concrete. Crutch bents placed on both sides of Int. Bent 3.

Temporary Repair

NOT TEMP - TMS 02/02/16

Span Element Report

Structure Number: 410134

Inspection Date: 09/02/2015

Span Number 1

Span Length 18 Feet

Number of Beams/Girders: 18

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	400	400	0	0	0	0	3324
111		Timber Open Girder/Beam	342	342	0	0	0	0	3304
216		Timber Abutment	33	33	0	0	0	0	3346
228		Timber Pile	7	6	1	0	0	2	3344
235		Timber Pier Cap	23	23	0	0	0	0	3344
330		Metal Bridge Railing	36	36	0	0	0	0	3322
515	330	Steel Protective Coating	126	126	0	0	0	0	3342
510		Wearing Surface	380	305	75	0	0	75	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 17 Feet

Number of Beams/Girders: 18

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	378	378	0	0	0	0	3324
111		Timber Open Girder/Beam	324	286	38	0	0	38	3304
228		Timber Pile	7	4	0	3	0	7	3344
235		Timber Pier Cap	23	23	0	0	0	0	3344
330		Metal Bridge Railing	34	34	0	0	0	0	3322
515	330	Steel Protective Coating	120	120	0	0	0	0	3342
510		Wearing Surface	359	284	75	0	0	75	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 39 Feet

Number of Beams/Girders: 10

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	866	864	2	0	0	2	3324
107		Steel Open Girder/Beam	390	156	87	147	0	234	3314
515	107	Steel Protective Coating	2310	1188	120	762	240	1122	3342
225		Steel Pile	4	4	0	0	0	0	3354
515	225	Steel Protective Coating	240	240	0	0	0	0	3342
228		Timber Pile	7	6	0	1	0	2	3344
231		Steel Pier Cap	28	28	0	0	0	0	3354
515	231	Steel Protective Coating	164	164	0	0	0	0	3342
235		Timber Pier Cap	23	18	5	0	0	5	3344
316		Other Bearings	20	13	7	0	0	7	3334
515	316	Steel Protective Coating	20	13	0	7	0	7	3342
330		Metal Bridge Railing	78	78	0	0	0	0	3322
515	330	Steel Protective Coating	274	274	0	0	0	0	3342
510		Wearing Surface	823	798	25	0	0	25	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 4

Span Length 18 Feet

Number of Beams/Girders: 19

Structure Number: 410134

Inspection Date: 09/02/2015

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	400	400	0	0	0	0	3324
111		Timber Open Girder/Beam	342	342	0	0	0	0	3304
216		Timber Abutment	33	32	1	0	0	1	3346
225		Steel Pile	4	4	0	0	0	0	3354
515	225	Steel Protective Coating	240	240	0	0	0	0	3342
228		Timber Pile	14	14	0	0	0	0	3344
231		Steel Pier Cap	28	28	0	0	0	0	3354
515	231	Steel Protective Coating	164	164	0	0	0	0	3342
235		Timber Pier Cap	45	45	0	0	0	0	3344
330		Metal Bridge Railing	36	28	8	0	0	8	3322
515	330	Steel Protective Coating	126	126	0	0	0	0	3342
510		Wearing Surface	380	380	0	0	0	0	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: 410134

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
☒ Deck	1	31	Timber Deck	400	400	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	18	18	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	63	63	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	18	18	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	63	63	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	380	305	75	0	0	75	2816	☐ Requested
☒ Beam	1	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	2	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	3	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	4	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	5	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	6	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	7	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	8	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	9	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	10	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	11	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	12	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	13	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	14	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	15	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	16	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	17	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	19	19	0	0	0	0	3304	☐ Requested

Structure Number: 410134

Inspection Date: 09/02/2015

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	31	Timber Deck	378	378	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	17	17	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	60	60	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	17	17	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	60	60	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	359	284	75	0	0	75	2816	☐ 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	0	18	0	0	18	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	0	18	0	0	18	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	16	2	0	0	2	3304	☐ Requested
☒ Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	☐ Requested

Structure Number: 410134
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
☒ Deck	1	31	Timber Deck	866	864	2	0	0	2	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	39	39	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	137	137	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	39	39	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	137	137	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	823	798	25	0	0	25	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	39	39	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	219	129	90	0	0	90	3342	
☒ Beam	2	107	Steel Open Girder/Beam	39	0	0	39	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	0	0	179	60	239	3342	
☒ Beam	3	107	Steel Open Girder/Beam	39	0	29	10	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	144	0	75	20	95	3342	
☒ Beam	4	107	Steel Open Girder/Beam	39	0	29	10	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	144	0	75	20	95	3342	
☒ Beam	5	107	Steel Open Girder/Beam	39	39	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	219	204	15	0	0	15	3342	
☒ Beam	6	107	Steel Open Girder/Beam	39	39	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	219	204	15	0	0	15	3342	
☒ Beam	7	107	Steel Open Girder/Beam	39	0	0	39	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	0	0	179	60	239	3342	
☒ Beam	8	107	Steel Open Girder/Beam	39	0	29	10	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	144	0	75	20	95	3342	
☒ Beam	9	107	Steel Open Girder/Beam	39	0	0	39	0	39	3314	☐ Requested
Protective System		515	Steel Protective Coating	239	0	0	179	60	239	3342	
☒ Beam	10	107	Steel Open Girder/Beam	39	39	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	219	219	0	0	0	0	3342	
☒ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	

Structure Number: 410134

Inspection Date: 09/02/2015

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
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	7	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	8	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	9	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	10	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	

Structure Number: 410134

Inspection Date: 09/02/2015

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
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	

Structure Number: 410134

Inspection Date: 09/02/2015

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	31	Timber Deck	400	400	0	0	0	0	3324	☐ Requested
☒ Bridge Rail	1	330	Metal Bridge Railing	18	10	8	0	0	8	3322	☐ Requested
Protective System		515	Steel Protective Coating	63	63	0	0	0	0	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	18	18	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	63	63	0	0	0	0	3342	
☒ Wearing Surfaces		510	Wearing Surface	380	380	0	0	0	0	2816	☐ 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

Superstructure Element Defect Descriptions

Structure Number: 410134

Inspection Date: 09/02/2015

Span Number 1

Span 1	Bridge Rail	1	Component Name:	Steel Rail
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Element: 330 Name Metal Bridge Railing Qty: 18 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 1	Bridge Rail	2	Component Name:	Steel Rail
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Element: 330 Name Metal Bridge Railing Qty: 18 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 1	Wearing Surfaces		Component Name:	Asphalt Wearing Surface
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Element: 510 Name Wearing Surface Qty: 380 Lvl 2: 75 Lvl 3: 0 Lvl 4: 0 Maint. Qty 75

Defect Description:

75 Square Feet of Damage (CS2): GOUGES UP TO 3/4 IN DEEP IN WEARING SURFACE OF EAST BOUND LANE.

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: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM SURFACE CHECKS IN FACES OF ALL TIMBER BEAMS IN SPAN 1.

Span Number 2

Span 2	Bridge Rail	1	Component Name:	Steel Rail
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Element: 330 Name Metal Bridge Railing Qty: 17 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 2	Bridge Rail	2	Component Name:	Steel Rail
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Element: 330 Name Metal Bridge Railing Qty: 17 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 2	Wearing Surfaces		Component Name:	Asphalt Wearing Surface
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Element: 510 Name Wearing Surface Qty: 359 Lvl 2: 75 Lvl 3: 0 Lvl 4: 0 Maint. Qty 75

Defect Description:

75 Square Feet of Damage (CS2): GOUGES UP TO 3/4 IN DEEP IN WEARING SURFACE OF EAST BOUND LANE.

Span 2	Beam	1	Component Name:	Timber Joist
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Element: 111 Name Timber Open Girder/Beam Qty: 18 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty 0

Defect Description:

RANDOM SURFACE CHECKS IN FACES OF ALL TIMBER BEAMS IN SPAN 2.

Span 2	Beam	13	Component Name:	Timber Joist
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Element: 111 Name Timber Open Girder/Beam Qty: 18 Lvl 2: 18 Lvl 3: 0 Lvl 4: 0 Maint. Qty 18

Defect Description:

18 Feet of Split/Delamination (Timber) (CS2): FULL LENGTH HORIZONTAL SPLIT IN NORTH FACE.

Span 2	Beam	15	Component Name:	Timber Joist
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Element: 111 Name Timber Open Girder/Beam Qty: 18 Lvl 2: 18 Lvl 3: 0 Lvl 4: 0 Maint. Qty 18

Defect Description:

18 Feet of Split/Delamination (Timber) (CS2): FULL LENGTH HORIZONTAL SPLIT IN NORTH FACE.

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Span 2	Beam	17	Component Name:	Timber Joist				
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Element: 111 Name Timber Open Girder/Beam Qty: 18 Lvl 2: 2 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 2

Defect Description:

2 Feet of Damage (CS2): 3 IN X 2 FT X 1/2 IN DEEP LOSS OF SECTION IN BOTTOM FACE, 5 FT FROM BENT 1.

Span Number 3

Span 3	Deck	1	Component Name:	Timber Deck				
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Element: 31 Name Timber Deck Qty: 866 Lvl 2: 2 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 2

Defect Description:

2 Square Feet of Split/Delamination (CS2): ASPHALT WEARING SURFACE TIMBER RETAINER IS WARPED AND SPLIT, AT LEFT GUTTER 3 FT FROM BENT 2.

Span 3	Bridge Rail	1	Component Name:	Steel Rail				
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Element: 330 Name Metal Bridge Railing Qty: 39 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 3	Bridge Rail	2	Component Name:	Steel Rail				
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Element: 330 Name Metal Bridge Railing Qty: 39 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

RANDOM CHECKS IN TIMBER CURBS.

Span 3	Wearing Surfaces		Component Name:	Asphalt Wearing Surface				
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Element: 510 Name Wearing Surface Qty: 823 Lvl 2: 25 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 25

Defect Description:

25 Square Feet of Damage (CS2): GOUGES UP TO 3/4 IN DEEP IN WEARING SURFACE OF EAST BOUND LANE.

Span 3	Beam	1	Component Name:	Plate Girder				
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Element: 107 Name Steel Open Girder/Beam Qty: 39 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

90 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings) (CS2): PEELING PAINT ALONG BOTTOM FLANGE AND BOTH FACES OF WEB.

Span 3	Beam	2	Component Name:	Plate Girder				
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Element: 107 Name Steel Open Girder/Beam Qty: 39 Lvl 2: 0 Lvl 3: 39 Lvl 4: 0 Maint. Qty: 39

Defect Description:

39 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE AND FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

60 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED ALONG ENTIRE TOP FLANGE.

179 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span 3	Beam	3	Component Name:	Plate Girder				
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Element: 107 Name Steel Open Girder/Beam Qty: 39 Lvl 2: 29 Lvl 3: 10 Lvl 4: 0 Maint. Qty: 39

Defect Description:

10 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE

20 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED AT KNIFE EDGE CORROSION IN TOP FLANGE.

29 Feet of Corrosion (CS2): FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

75 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span 3	Beam	4	Component Name:	Plate Girder				
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Element: 107 Name Steel Open Girder/Beam Qty: 39 Lvl 2: 29 Lvl 3: 10 Lvl 4: 0 Maint. Qty: 39

Defect Description:

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10 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE

20 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED AT KNIFE EDGE CORROSION IN TOP FLANGE.

29 Feet of Corrosion (CS2): FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

75 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span	3	Beam	5	Component Name:	Plate Girder
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Element: 107	Name	Steel Open Girder/Beam	Qty:	39	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
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Defect Description:

15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings) (CS2): RANDOM AREAS OF PEELING PAINT ALONG BEAM.

Span	3	Beam	6	Component Name:	Plate Girder
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Element: 107	Name	Steel Open Girder/Beam	Qty:	39	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
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Defect Description:

15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings) (CS2): RANDOM AREAS OF PEELING PAINT ALONG BEAM.

Span	3	Beam	7	Component Name:	Plate Girder
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Element: 107	Name	Steel Open Girder/Beam	Qty:	39	Lvl 2:	0	Lvl 3	39	Lvl 4	0	Maint. Qty	39
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Defect Description:

39 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE AND FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

60 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED ALONG ENTIRE TOP FLANGE.

179 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span	3	Beam	8	Component Name:	Plate Girder
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Element: 107	Name	Steel Open Girder/Beam	Qty:	39	Lvl 2:	29	Lvl 3	10	Lvl 4	0	Maint. Qty	39
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Defect Description:

10 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE

20 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED AT KNIFE EDGE CORROSION IN TOP FLANGE.

29 Feet of Corrosion (CS2): FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

75 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span	3	Beam	9	Component Name:	Plate Girder
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Element: 107	Name	Steel Open Girder/Beam	Qty:	39	Lvl 2:	0	Lvl 3	39	Lvl 4	0	Maint. Qty	39
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Defect Description:

39 Feet of Corrosion (CS3): HEAVY CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE AND FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.

60 Square Feet of Effectiveness (Steel Protective Coatings) (CS4): PROTECTIVE SYSTEM HAS FAILED ALONG ENTIRE TOP FLANGE.

179 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): PROTECTIVE SYSTEM HAS LIMITED EFFECTIVENESS IN WEB AND BOTTOM FLANGE.

Span	3	Bearing Device	1	Component Name:	Other Bearing
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Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
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Defect Description:

SPAN 3 FAR BEARINGS ARE LOCATED AT THE OLD TIMBER BENT. BEAMS ARE NOW BEARING ON CRUTCH BENT WITH NO BEARING ASSEMBLY.

Span	3	Bearing Device	2	Component Name:	Other Bearing
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Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
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Defect Description:

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

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1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span	3	Bearing Device	3	Component Name:		Other Bearing							
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span	3	Bearing Device	4	Component Name:	Other Bearing								
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span	3	Bearing Device	7	Component Name:	Other Bearing								
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span 3		Bearing Device		8		Component Name:		Other Bearing							
Element: 316		Name Other Bearings		Qty:		1 Lvl 2:		1 Lvl 3		0 Lvl 4		0 Maint. Qty		1	
Defect Description:															

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span 3		Bearing Device		9		Component Name:		Other Bearing							
Element: 316		Name Other Bearings		Qty:		1 Lvl 2:		1 Lvl 3		0 Lvl 4		0 Maint. Qty		1	
Defect Description:															

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span	3	Bearing Device	10	Component Name:		Other Bearing							
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

NEAR BEARING:

1 Each of Corrosion (CS2): SURFACE CORROSION

1 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS

Span Number 4

Span	4	Bridge Rail	1	Component Name:		Steel Rail							
Element:	330	Name	Metal Bridge Railing	Qty:	18	Lvl 2:	8	Lvl 3	0	Lvl 4	0	Maint. Qty	8
Defect Description:													

8 Feet of Damage (CS2): 8 FT OF IMPACT DAMAGE AT NORTHEAST CORNER.

RANDOM CHECKS IN TIMBER CURBS.

Span 4	Bridge Rail	2	Component Name:			Steel Rail						
Element: 330	Name	Metal Bridge Railing	Qty:	18	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

RANDOM CHECKS IN TIMBER CURBS.

Span	4	Beam	1	Component Name:		Timber Joist							
Element:	111	Name	Timber Open Girder/Beam	Qty:	18	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:													

RANDOM SURFACE CHECKS IN FACES OF ALL TIMBER BEAMS IN SPAN 4.

Substructure Detailed Element Quantities

Structure Number: 410134
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
☒ Abutments	1	216	Timber Abutment	33	33	0	0	0	0	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	23	23	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ 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
☒ Caps	1	235	Timber Pier Cap	23	23	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	0	1	0	4	3344	☒ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	0	1	0	2	3344	☒ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	0	0	1	0	1	3344	☒ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Structure Number: 410134

Inspection Date: 09/02/2015

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	235	Timber Pier Cap	23	18	5	0	0	5	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	0	1	0	2	3344	☒ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

Span 3 Crutch Bent

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	231	Steel Pier Cap	28	28	0	0	0	0	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	164	164	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	3	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	3	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	4	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	4	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ 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
☒ Caps	1	235	Timber Pier Cap	23	23	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	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
☒ Abutments	1	216	Timber Abutment	33	32	1	0	0	1	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	22	22	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	6	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	7	228	Timber Pile	1	1	0	0	0	0	3344	☐ Requested

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Span 4 Crutch Bent

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	231	Steel Pier Cap	28	28	0	0	0	0	3354	☐ Requested
☒ Caps	1	515	Steel Protective Coating	164	164	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	1	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	1	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	2	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	2	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	3	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	3	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested
☒ Piles and Columns	4	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☒ Piles and Columns	4	515	Steel Protective Coating	60	60	0	0	0	0	3342	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 410134

Inspection Date: 09/02/2015

End Bent 1

End Bent 1	Row 1	Caps	1							
Element: 235	Name	Timber Pier Cap	Qty:	23	Lvl 2:	0	Lvl 3	0	Lvl 4	0 Maint. Qty
Defect Description:										

RANDOM CHECKS IN EAST FACE ALONG ENTIRE LENGTH.

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

CONCRETE COLLAR AT PILE 1 AT END BENT 1.
FULL HEIGHT VERTICAL CRACK UP TO 1/8 IN WIDE IN CONCRETE COLLAR.

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

CONCRETE COLLAR AT PILE 4 AT END BENT 1.
FULL HEIGHT VERTICAL CRACK UP TO 1/8 IN WIDE IN CONCRETE COLLAR.

End Bent 1	Row 1	Piles and Columns	5							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0 Maint. Qty
Defect Description:										

1 Each of Split/Delamination (CS2): 6 IN X 18 IN VERTICAL SPLIT IN EAST FACE, 1 FT FROM WATERLINE.

End Bent 1	Row 1	Piles and Columns	7							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	0	Lvl 3	0	Lvl 4	0 Maint. Qty
Defect Description:										

CONCRETE COLLAR AT PILE 7 AT END BENT 1.

Bent 1	Row 1	Caps	1							
Element: 235	Name	Timber Pier Cap	Qty:	23	Lvl 2:	0	Lvl 3	0	Lvl 4	0 Maint. Qty
Defect Description:										

RANDOM CHECKS IN WEST AND EAST FACE ALONG ENTIRE LENGTH.

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

1 Each of Decay/Section Loss (CS3): 1 1/2 IN DEEP DECAY WITH VEGETATION GROWTH IN WEST FACE AT WATERLINE (PM). AREA OF DECAY WITH HOLLOW SOUND IN EAST FACE UP TO 3 FT ABOVE WATERLINE (PM).

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

1 Each of Decay/Section Loss (CS3): 2 FT X 2 IN X 4 IN DEEP DECAY IN EAST FACE, 4 FT ABOVE WATERLINE (PM).

Bent 1	Row 1	Piles and Columns	6							
Element: 228	Name	Timber Pile	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0 Maint. Qty
Defect Description:										

1 Each of Decay/Section Loss (CS3): 2 IN X 4 IN X 1 IN DEEP DECAY IN EAST FACE AT WATERLINE (PM).

Bent 2	Row 1	Caps	1
--------	-------	------	---

Element: 235 Name Timber Pier Cap Qty: 23 Lvl 2: 5 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 5

Defect Description:

THERE IS A STEEL CAP ON TOP OF MAIN TIMBER BENT CAP.

5 Feet of Corrosion (CS2): RANDOM FRECKLED RUST ALONG STEEL CAP, MOSTLY AT STIFFENER PLATES.

40 Square Feet of Effectiveness (Steel Protective Coatings) (CS3): LIMITED EFFECTIVENESS OF PROTECTIVE COATING ALONG STEEL CAP.

RANDOM SURFACE CHECKS IN WEST AND EAST FACE ALONG ENTIRE LENGTH.

Bent 2	Row 1	Piles and Columns	5
--------	-------	-------------------	---

Element: 228 Name Timber Pile Qty: 1 Lvl 2: 0 Lvl 3: 1 Lvl 4: 0 Maint. Qty: 2

Defect Description:

1 Each of Decay/Section Loss (CS3): 2 FT X 6 IN AREA OF DECAY WITH VEGETATION GROWTH IN WEST FACE AT WATERLINE (PM).

Bent 3	Row 1	Caps	1
--------	-------	------	---

Element: 235 Name Timber Pier Cap Qty: 23 Lvl 2: 0 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 0

Defect Description:

RANDOM CHECKS IN WEST AND EAST FACE ALONG ENTIRE LENGTH.

End Bent 2	Row 1	Abutments	1
------------	-------	-----------	---

Element: 216 Name Timber Abutment Qty: 33 Lvl 2: 1 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 1

Defect Description:

1 Feet of Decay/Section Loss (CS2): 12 IN X 5 IN X 1 1/2 IN DEEP DECAY BEHIND PILE 4.

End Bent 2	Row 1	Piles and Columns	2
------------	-------	-------------------	---

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 2 AT END BENT 2.

End Bent 2	Row 1	Piles and Columns	4
------------	-------	-------------------	---

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 AT END BENT 2.

National Bridge and NC Inspection Items

Structure Number: 410134

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	7
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	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			
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	G		
Estimated Remaining Life	0 - 100 Years	10		

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	Y
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

National Bridge and NC SMU Inspection Item Details

Structure Number: 410134

Inspection Date: 09/02/2015

Item	Grade	Maint Code	Qty.
Details			



Span 1 Wearing Surface: GOUGES UP TO 3/4 IN DEEP IN WEARING SURFACE IN EAST BOUND LANE.



Span 4 Left Bridge Rail: 8 FT OF IMPACT DAMAGE AT NORTHEAST CORNER.



End Bent 1 Pile 1: FULL HEIGHT VERTICAL CRACK UP TO 1/8 IN WIDE IN CONCRETE COLLAR.



End Bent 1 Pile 4: FULL HEIGHT VERTICAL CRACK UP TO 1/8 IN WIDE IN CONCRETE COLLAR.



End Bent 1 Pile 5: 6 IN X 18 IN VERTICAL SPLIT IN EAST FACE, 1 FT FROM WATERLINE.



Bent 1 Pile 2: 1 1/2 IN DEEP DECAY WITH VEGETATION GROWTH IN WEST FACE AT WATERLINE (PM).



Bent 1 Pile 6: 2 IN X 4 IN X 1 IN DEEP DECAY IN EAST FACE AT WATERLINE (PM).



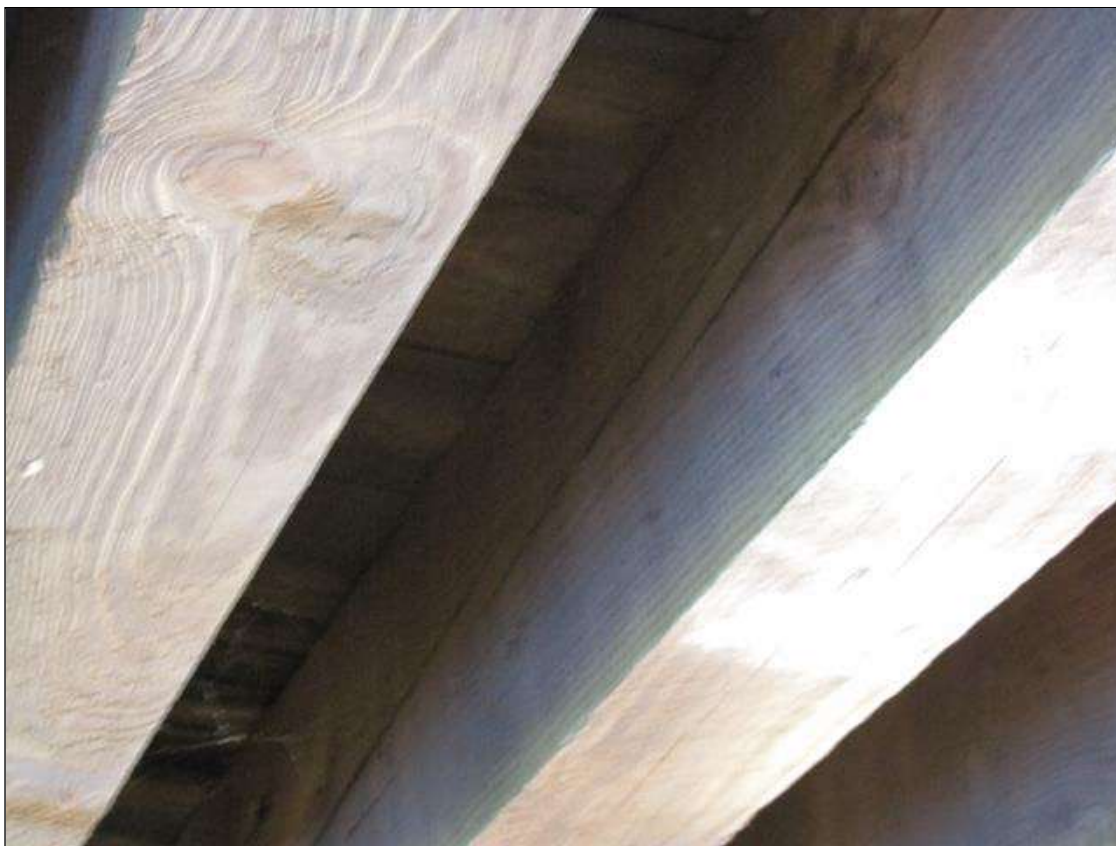
Bent 1 Pile 4: 2 FT X 2 IN X 4 IN DEEP DECAY IN EAST FACE, 4 FT ABOVE WATERLINE (PM).



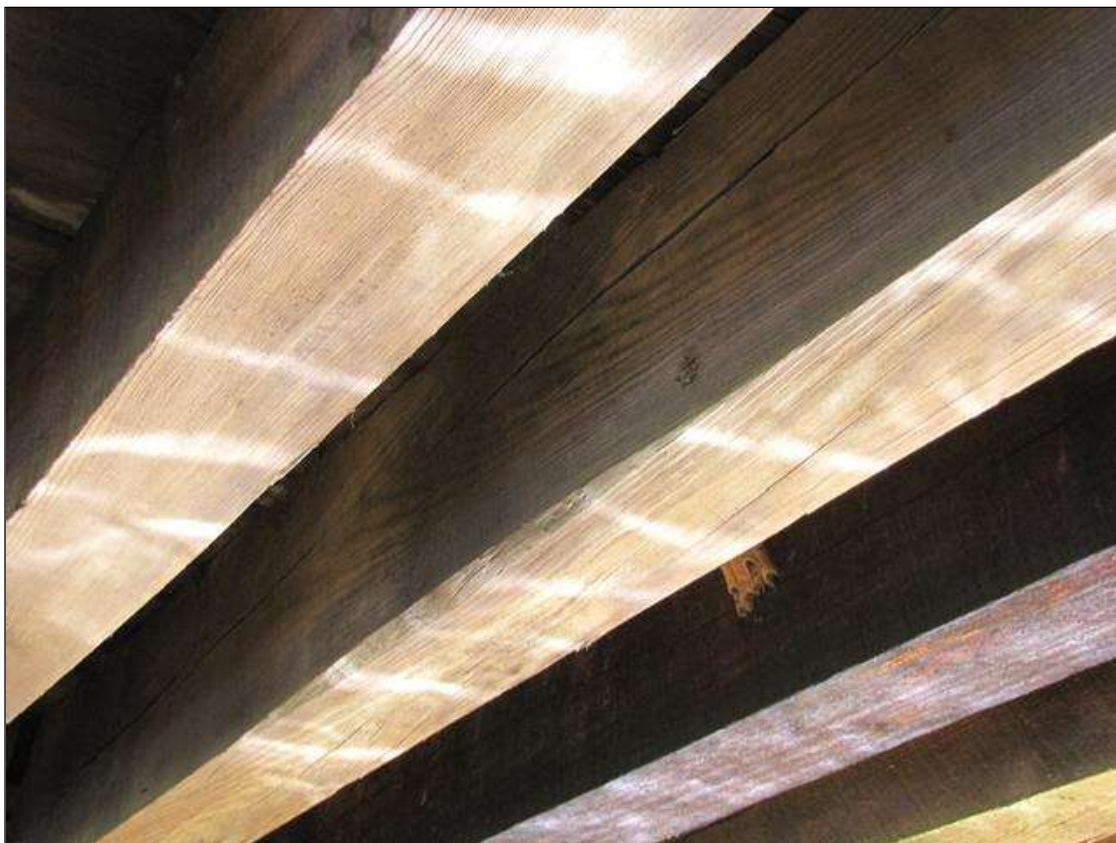
Bent 1 Pile 2: AREA OF DECAY WITH HOLLOW SOUND IN EAST FACE UP TO 3 FT ABOVE WATERLINE (PM).



Bent 2 Steel Cap : RANDOM FRECKLED RUST, MOSTLY AT STIFFENER PLATES WITH LIMITED EFFECTIVENESS OF PROTECTIVE COATING.



Span 2 Beam 13: FULL LENGTH HORIZONTAL SPLIT IN NORTH FACE.



Span 2 Beam 15: FULL LENGTH HORIZONTAL SPLIT IN NORTH FACE.



Span 2 Beam 17: 3 IN X 2 FT X 1/2 IN DEEP LOSS OF SECTION IN BOTTOM FACE, 5 FT FROM BENT 1.



Bent 2 Pile 5: 2 FT X 6 IN AREA OF DECAY WITH VEGETATION GROWTH IN WEST FACE AT WATERLINE (PM).



Span 3 Beam 1: PEELING PAINT ALONG BOTTOM FLANGE.



Span 3 Beam 2: CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE AND FRECKLED RUST AT RANDOM IN WEB AND BOTTOM FLANGE.



Span 3 Beam 2: CORROSION WITH LOSS OF SECTION TO KNIFE EDGE AT TOP FLANGE.



Span 3 Deck: ASPHALT WEARING SURFACE TIMBER RETAINER IS WARPED AND SPLIT, AT LEFT GUTTER 3 FT FROM BENT 2.



End Bent 2 Abutment/Backwall : 12 IN X 5 IN X 1 1/2 IN DEEP DECAY BEHIND PILE 4.



LOOKING WEST



POSTING SIGN AT NORTHEAST CORNER



TYPICAL RAIL (NORTHEAST CORNER SHOWN)



GENERAL CONDITION OF ASPHALT WEARING SURFACE, SPAN 4 SHOWN



LOOKING UPSTREAM (NORTH)



LOOKING DOWNSTREAM (SOUTH)



LOOKING EAST



DOWNSTREAM PROFILE (SOUTH)



UPSTREAM PROFILE (NORTH)



CONCRETE COLLAR AT PILE 4 AT END BENT 1.



CONCRETE COLLAR AT PILE 7 AT END BENT 1.



BENT 1 PROFILE



END BENT 1 PROFILE



BENT 2 PROFILE



SPAN 3 CRUTCH BENT AT BENT 3



UNDERDECK, SPAN 3



UNDERDECK, SPAN 2



RAIL POST TO BEAM CONNECTION



BEAM 5 BEARING AT BENT 2, SPAN 3 SIDE.



END BENT 2 PROFILE



SPAN 4 CRUTCH BENT AT BENT 3



CONCRETE COLLAR AT PILE 4 AT END BENT 2.



CONCRETE COLLAR AT PILE 2 AT END BENT 2.

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

Update Date: 02/04/2016

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	410134		SUFFICIENCY RATING =		52.19	
(8) STRUCTURE NUMBER(FEDERAL)		00000000830134		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013100					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION		CODE	
(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 SR1310				(26) FUNCTIONAL CLASS - Local		09	
(9) LOCATION 1.8 MI. W. JCT. NC48				(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(16)LAT 36° 20' 4.92" (17)LONG 77° 50' 37.30"				(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	
STRUCTURE TYPE AND MATERIAL				(20) TOLL On Free Road		3	
(43) STRUCTURE TYPE MAIN: Steel				(31) MAINTAIN - State Highway Agency		01	
TYPE - Stringer Multibeam or Girder	CODE	302		(22) OWNER - State Highway Agency		01	
(44) STRUCTURE TYPE APPR : Wood or Timber				(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
TYPE - Stringer Multibeam or Girder	CODE	702		CONDITION		CODE	
(45) NUMBER OF SPANS IN MAIN UNIT		1		(58) DECK		7	
(46) NUMBER OF APPROACH SPANS		3		(59) SUPERSTRUCTURE		7	
(107)DECK STRUCTURE TYPE - 8	CODE			(60) SUBSTRUCTURE		5	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION		7	
(A) TYPE OF WEARING SURFACE -	CODE			(62) CULVERTS		N	
(B) TYPE OF MEMBRANE -	CODE			LOAD RATING AND POSTING		CODE	
(C) TYPE OF DECK PROTECTION -	CODE			(31) DESIGN LOAD Unknown		0	
AGE AND SERVICE				(63) OPERATING RATING METHOD - Allowable Stress		2	
(27) YEAR BUILT		1952		(64) OPERATING RATING - HS-18		32	
(106)YEAR RECONSTRUCTED		1982		(65) INVENTORY RATING METHOD - Allowable Stress		2	
(42) TYPE OF SERVICE : ON - Highway				(66) INVENTORY RATING - HS-12		22	
UNDER - Waterway	CODE	15		(70) BRIDGE POSTING - Posting Required		1	
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P	
(29) AVERAGE DAILY TRAFFIC		540		DESCRIPTION - Posted for Load			
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT		6%		APPRAISAL		CODE	
(19) BYPASS OR DETOUR LENGTH		3 MI		(67) STRUCTURAL EVALUATION		5	
GEOMETRIC DATA				(68) DECK GEOMETRY		3	
(48) LENGTH OF MAXIMUM SPAN		37 FT		(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(49) STRUCTURE LENGTH		91 FT		(71) WATERWAY ADEQUACY		7	
(50)CURB OR SIDEWALK: LEFT .2085 FT RIGHT .2085 FT				(72) APPROACH ROADWAY ALIGNMENT		8	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		21.083 FT		(36) TRAFFIC SAFETY FEATURES		0000	
(52) DECK WIDTH OUT TO OUT		22.167 FT		(113)SCOUR CRITICAL BRIDGES		U	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		PROPOSED IMPROVEMENTS		CODE	
(33) BRIDGE MEDIAN - No Median	CODE	0		(75) TYPE OF WORK -			
(34) SKEW 0° (35) STRUCTURE FLARED		0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(94) BRIDGE IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		21.083 FT		(95) ROADWAY IMPROVEMENT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(96) TOTAL PROJECT COST			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		(114)FUTURE ADT 1080 (115) YEAR FUTURE ADT 2025			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		INSPECTIONS			
NAVIGATION DATA				(90) INSPECTION DATE		09/02/2015	
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(111)PIER PROTECTION -	CODE			A) FRACTURE CRIT DETAIL - NO		A)	
(39) NAVIGATION VERTICAL CLEARANCE		0		B) UNDERWATER INSP - YES 48Mo		B)	01/06/2014
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			C) OTHER SPECIAL INSP NO		C)	
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 02/04/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
HALIFAX	4	1	410134	91	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1310	BEAR SWAMP

LOCATED :	BRIDGE NAME :	CITY :
1.8 MI. W. JCT. NC48		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	540 2013	LT 233 RT 233

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1952	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
1982	BMU	5.3051	TAN	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		14 FT		7		FT

SUPERSTRUCTURE :	TIMBER DECK ON APPROACH:TIMBER JOISTS. MAIN:I-BEAMS
------------------	---

SUBSTRUCTURE :	E.BTS & INT.BTS:TIMBER CAP ON TIMBER PILES @ VAR.CTS., INT.BT#3 W/STEEL CAP & PILE CRUTCHES
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SPANS :	1@17'6", 1@17'2", 1@39'0", 1@17'5"
---------	------------------------------------

BEAMS OR GIRDERS :	SP#1,2,4:18 LNS.6"X12" TIMBER JOISTS @ VAR. CTS., SP#3:10 LNS.21" I-BEAMS @ VAR. CTS.
--------------------	---

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4"X8" TIM, 4" AWS		22.167 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
21.083 FT	21.5 FT	LT .2085 FT RT .2085 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-12	HS-18	Joist	SV 20	29	09/24/2013

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 410134

County HALIFAX

Date:

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3344	Repair / Replace Timber Substructure Components	LF	2	2 FT X 6 IN AREA OF DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 5 AT WATERLINE AT BENT 2.	
 3344	Repair / Replace Timber Substructure Components	LF	4	AREA OF DECAY WITH HOLLOW SOUND IN EAST FACE OF PILE 2, UP TO 3 FT ABOVE WATERLINE AND 1 1/2 IN DEEP DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 2 AT WATERLINE AT BENT 1.	
 3344	Repair / Replace Timber Substructure Components	LF	2	2 FT X 2 IN X 4 IN DEEP DECAY IN EAST FACE OF PILE 4, 4 FT ABOVE WATERLINE AT BENT 1.	
 3344	Repair / Replace Timber Substructure Components	LF	1	2 IN X 4 IN X 1 IN DEEP DECAY IN EAST FACE OF PILE 6 AT WATERLINE AT BENT 1.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 410134

County HALIFAX

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF
Location:		
Pier Substructure	Bent/Span No. 2	PILE 5
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/03/2015	BYRON ATKINSON	JILLA ISRAELNAIM
Details		
2 FT X 6 IN AREA OF DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 5 AT WATERLINE AT BENT 2.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	4 LF
Location:		
Pier Substructure	Bent/Span No. 1	PILE 2
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/03/2015	BYRON ATKINSON	JILLA ISRAELNAIM
Details		
AREA OF DECAY WITH HOLLOW SOUND IN EAST FACE OF PILE 2, UP TO 3 FT ABOVE WATERLINE AND 1 1/2 IN DEEP DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 2 AT WATERLINE AT BENT 1.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 410134

County HALIFAX

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	2 LF
Location:		
Pier Substructure	Bent/Span No. 1	PILE 4
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/03/2015	BYRON ATKINSON	JILLA ISRAELNAIM
Details		
2 FT X 2 IN X 4 IN DEEP DECAY IN EAST FACE OF PILE 4, 4 FT ABOVE WATERLINE AT BENT 1.		

MMS Code	MMS Description	Quantity
3344	Repair / Replace Timber Substructure Components	1 LF
Location:		
Pier Substructure	Bent/Span No. 1	PILE 6
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/03/2015	BYRON ATKINSON	JILLA ISRAELNAIM
Details		
2 IN X 4 IN X 1 IN DEEP DECAY IN EAST FACE OF PILE 6 AT WATERLINE AT BENT 1.		



1 1/2 IN DEEP DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 2 AT WATERLINE AT BENT 1.



2 IN X 4 IN X 1 IN DEEP DECAY IN EAST FACE OF PILE 6 AT WATERLINE AT BENT 1.



2 FT X 2 IN X 4 IN DEEP DECAY IN EAST FACE OF PILE 4, 4 FT ABOVE WATERLINE AT BENT 1.



AREA OF DECAY WITH HOLLOW SOUND IN EAST FACE OF PILE 2, UP TO 3 FT ABOVE WATERLINE AT BENT 1.

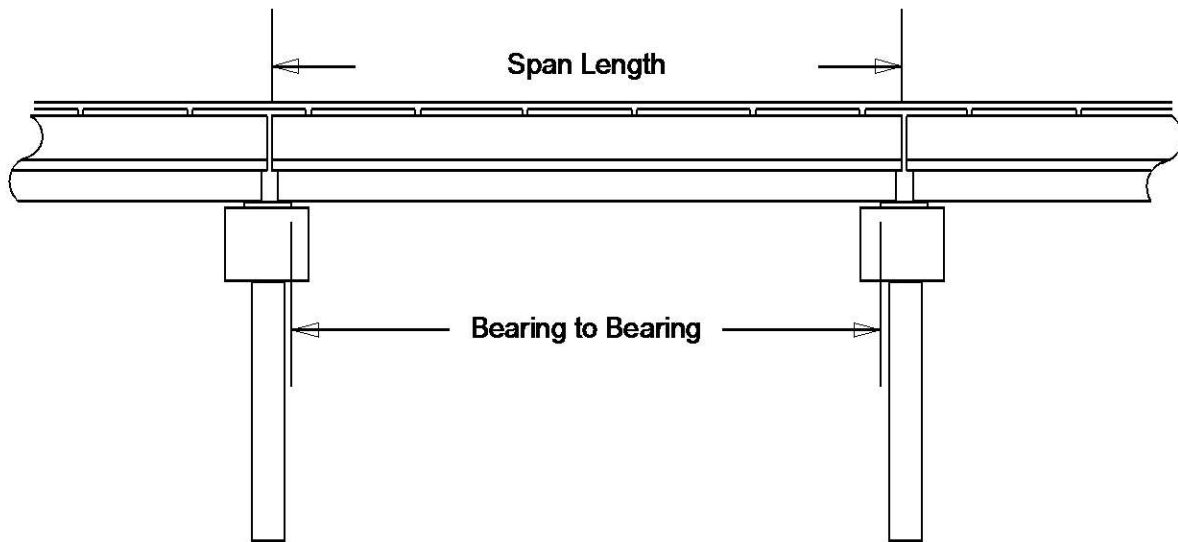


2 FT X 6 IN AREA OF DECAY WITH VEGETATION GROWTH IN WEST FACE OF PILE 5 AT WATERLINE AT BENT
2.

Structure Data Worksheet

Spans

County: HALIFAX Structure No: 410134 Date: _____ Inspected By: BEA



Span No	Span Length	Bearing to Bearing	Comments
1	17.5'	16.75'	NBIS BRIDGE LENGTH = 88'-6"
2	17.17'	16.92'	
3	39.0'	36.75'	BEARING TO BEARING TO SPAN 3 CRUTCH BENT
4	17.42'	15.0'	BEARING TO BEARING TO SPAN 4 CRUTCH BENT

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 410134 County: HALIFAX Date: _____ By: BEA

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

Distance from Highwater Mark to top of rail: 4 Location of Highwater Mark: TOP OF CAP

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.67	FILL FACE			
0.25	2.67				
0.26	7.7		0.26	7.6	
5	7.7				
9	9.3	Water Surface/Water Edge (WSWE)			
12	10				
17.5	10.9	BENT 1	17.5	10.8	BENT 1
25	13				
34.67	16.2	BENT 2	34.67	13.8	BENT 2
45	16.1				
55	16.1				
65	13.1				
73.67	10.7	BENT 3	73.67	15.5	BENT 3
78	8.3	Water Surface/Water Edge (WSWE)			
90.74	8		90.74	7.2	
90.75	3.67				
91	3.67	FILL FACE			

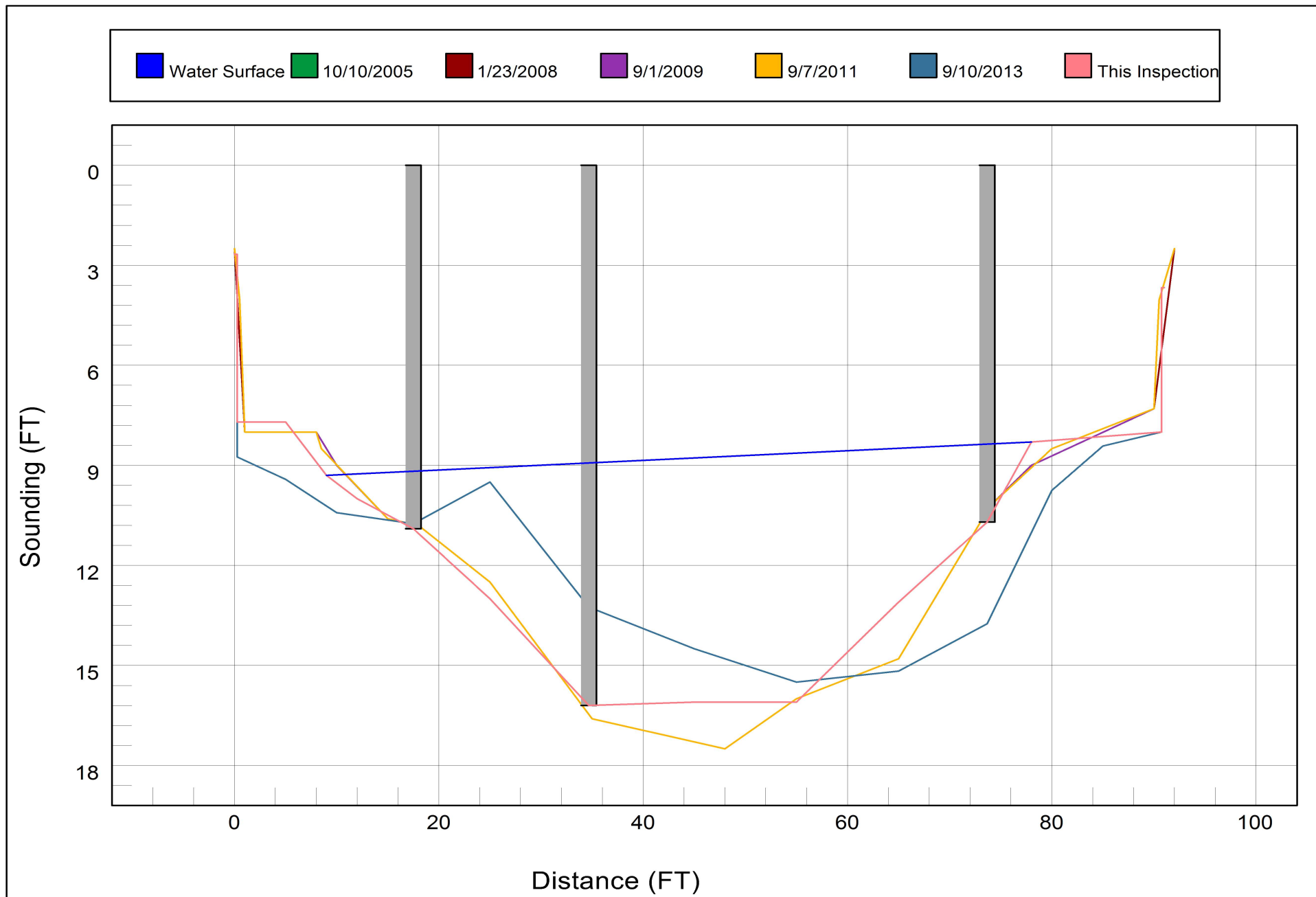
Bridge: 410134

County HALIFAX

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

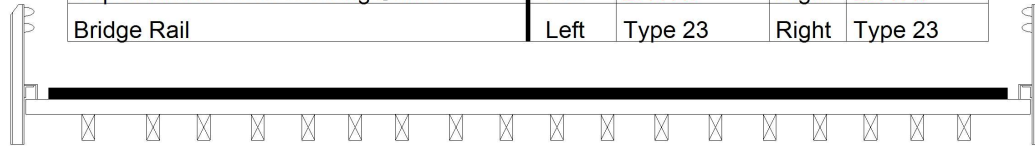
MEASUREMENTS VERIFIED BY BEA 9/02/15

VERIFIED FER 9/10/13

Title APPROACH ROADWAY		Description WEST APPROACH, LOOKING EAST	
Bridge No: 410134	Drawn By: HMS	Date: 09/10/13	File Name: S0026001405

Bridge Inspection Field Sketch

Deck Width/Out to Out	22.167ft	Between Rails			21.5ft
Clear Roadway	21.083ft	Wearing Surface			0.333ft
Median Width		Median Height			
Curb Height		Left	0.583ft	Right	0.583ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.583ft	Right	0.583ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft
Bridge Rail		Left	Type 23	Right	Type 23



Measurements for Span #	1		
Deck Thickness	0.333	Left Overhang	0.917
Top of Rail to Bottom of Beam	4.042	Right Overhang	0.917

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.500ft	ALL JOISTS 6"x11-1/2"
2	Timber (Rectangular)	1.167ft	
3	Timber (Rectangular)	1.250ft	
4	Timber (Rectangular)	1.167ft	
5	Timber (Rectangular)	1.083ft	
6	Timber (Rectangular)	1.083ft	
7	Timber (Rectangular)	1.250ft	
8	Timber (Rectangular)	1.167ft	
9	Timber (Rectangular)	1.167ft	
10	Timber (Rectangular)	1.167ft	
11	Timber (Rectangular)	1.250ft	
12	Timber (Rectangular)	1.250ft	
13	Timber (Rectangular)	1.250ft	
14	Timber (Rectangular)	1.167ft	
15	Timber (Rectangular)	1.167ft	
16	Timber (Rectangular)	1.083ft	
17	Timber (Rectangular)	1.083ft	REPLACEMENT
18	Timber (Rectangular)	ft	

MEASUREMENTS UPDATED BY BEA 9/02/15

Title

TYPICAL SECTION

Description

SPAN 1, LOOKING EAST

Bridge No: 410134

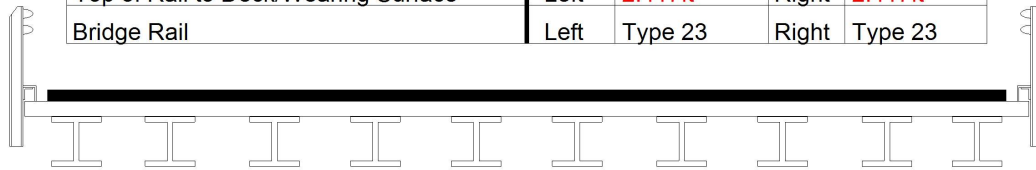
Drawn By: HMS

Date: 01/22/2008

File Name: S0026001406

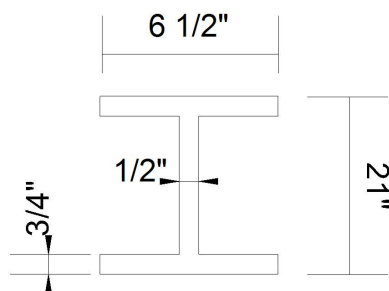
Bridge Inspection Field Sketch

Deck Width/Out to Out	22.167ft	Between Rails			21.5ft
Clear Roadway	21.083ft	Wearing Surface			0.333ft
Median Width		Median Height			
Curb Height		Left	0.583ft	Right	0.583ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.583ft	Right	0.583ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft
Bridge Rail		Left	Type 23	Right	Type 23

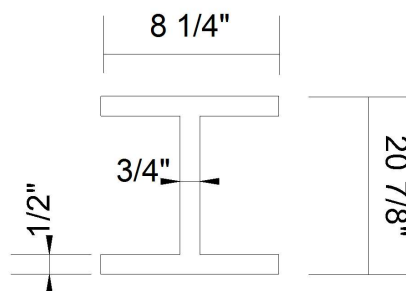


Measurements for Span #	3		
Deck Thickness	0.333	Left Overhang	0.667
Top of Rail to Bottom of Beam	5.25	Right Overhang	0.667

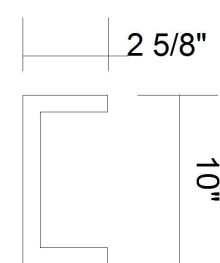
Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.167ft	
2	Steel I Beam	2.417ft	
3	Steel I Beam	2.333ft	
4	Steel I Beam	2.333ft	
5	Steel I Beam	2.333ft	
6	Steel I Beam	2.417ft	
7	Steel I Beam	2.333ft	
8	Steel I Beam	2.417ft	
9	Steel I Beam	2.083ft	
10	Steel I Beam	ft	



BEAMS 1,5,6, & 10
5/8" FLAT FLANGE



BEAMS 2,3,4,7,8, & 9
1/2" FLAT FLANGE



CHANNELS AT 1/3 POINTS
1/4 IN. TAPERED FLANGE

MEASUREMENTS UPDATED BY BEA 9/02/15

VERIFIED FER 09/10/13

Title

TYPICAL SECTION SPAN 3

Description

TYPICAL SECTION SPAN 3

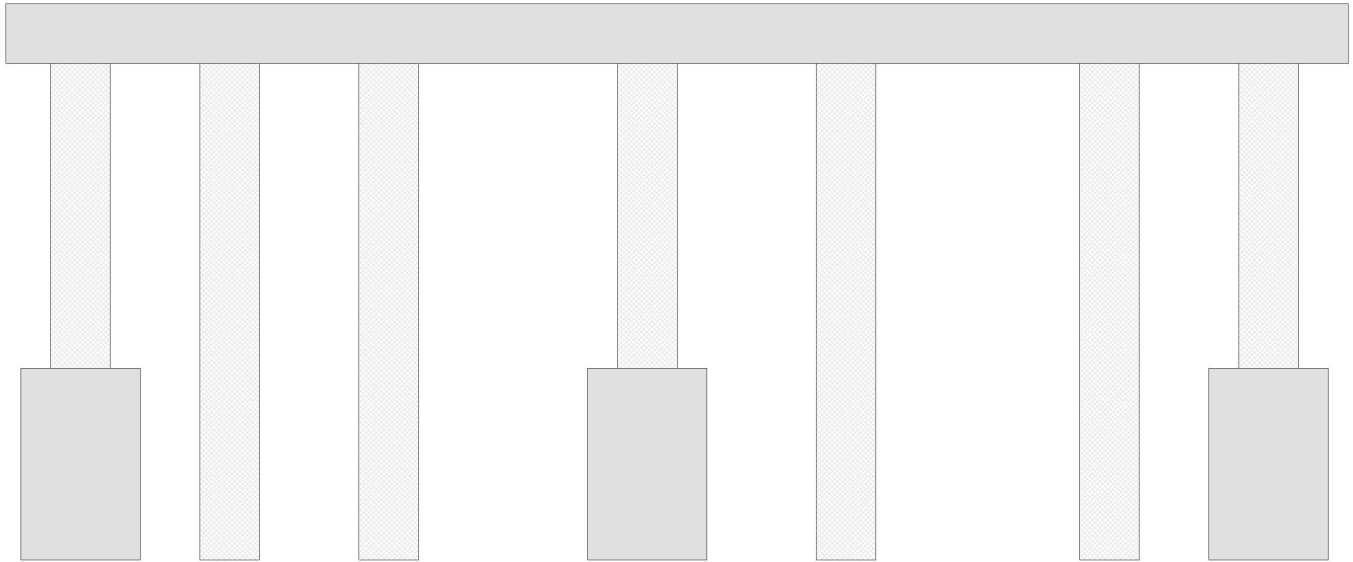
Bridge No: 410134

Drawn By: VMH

Date: 01/22/2008

File Name: S0026001407

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.				
22.500 ft.	1 ft.	1 ft.	1.25 ft.	1.083 ft.	1.000 ft.	1.000 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	2.5 ft.	1 ft.			Vertical	No	No	No	Yes
2	Timber	2.667 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	4.333 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	3.333 ft.	1 ft.			Vertical	No	No	No	Yes
5	Timber	4.417 ft.	1 ft.			Vertical	No	No	No	No
6	Timber	2.667 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Vertical	No	No	No	Yes
MEASUREMENTS VERIFIED BY BEA 9/02/15										
Bent/Abutment #: 1			Similar Bents:							

Title

SUBSTRUCTURE

Description

END BENT 1 ELEVATION, LOOKING EAST

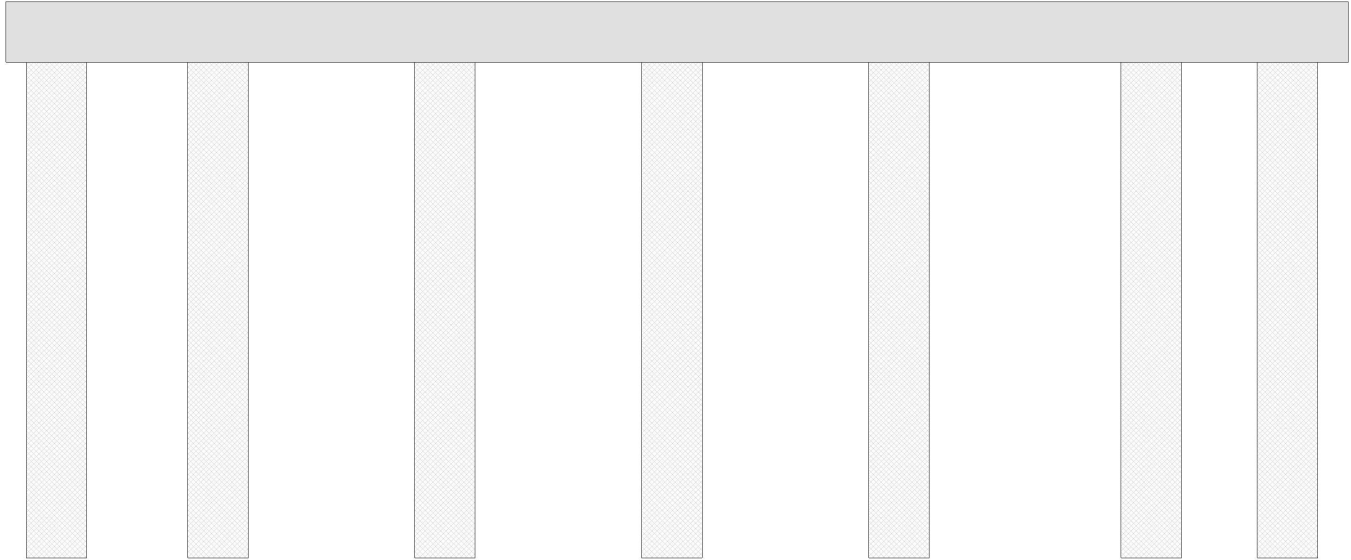
Bridge No: 410134

Drawn By: VMH

Date: 01/22/2008

File Name: S0026001408

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.				
22.167 ft.	1 ft.	1 ft.	0.833 ft.	1 ft.	.667 ft.	.667 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	2.667 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	3.75 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	3.75 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	3.75 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	4.167 ft.	1 ft.			Vertical	No	No	No	No
6	Timber	2.25 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Vertical	No	No	No	No
MEASUREMENTS VERIFIED BY BEA 9/02/15										
Bent/Abutment #: 1			Similar Bents:					VERIFIED FER 09/10/13		

Title

SUBSTRUCTURE

Description

BENT 1 ELEVATION, LOOKING EAST

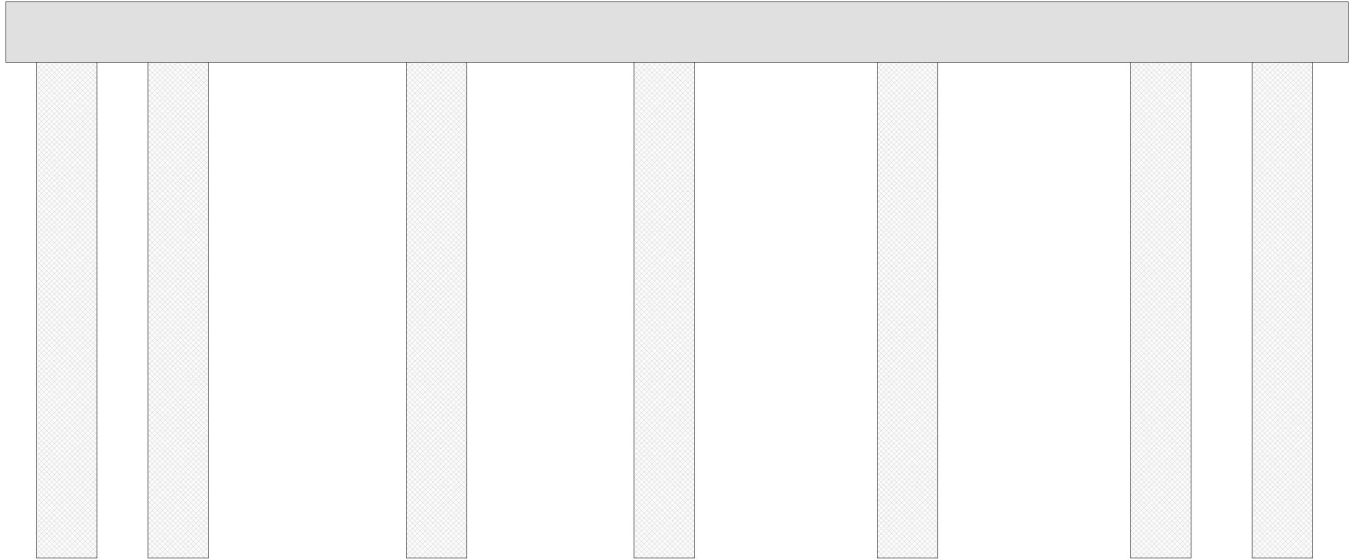
Bridge No: 410134

Drawn By: HMS

Date: 09/10/13

File Name: S0026001409

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length 22.083 ft.	Width 1 ft.	Height 1 ft.	Left Overhang 1 ft.	Right Overhang 1 ft.	Left Beam to End of Cap. .583 ft.	Right Beam to End of Cap. .667 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	1.833 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	4.25 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	3.75 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	4 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	4.167 ft.	1 ft.			Vertical	No	No	No	No
6	Timber	2 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Vertical	No	No	No	No
Bent/Abutment #: 2 Similar Bents:										

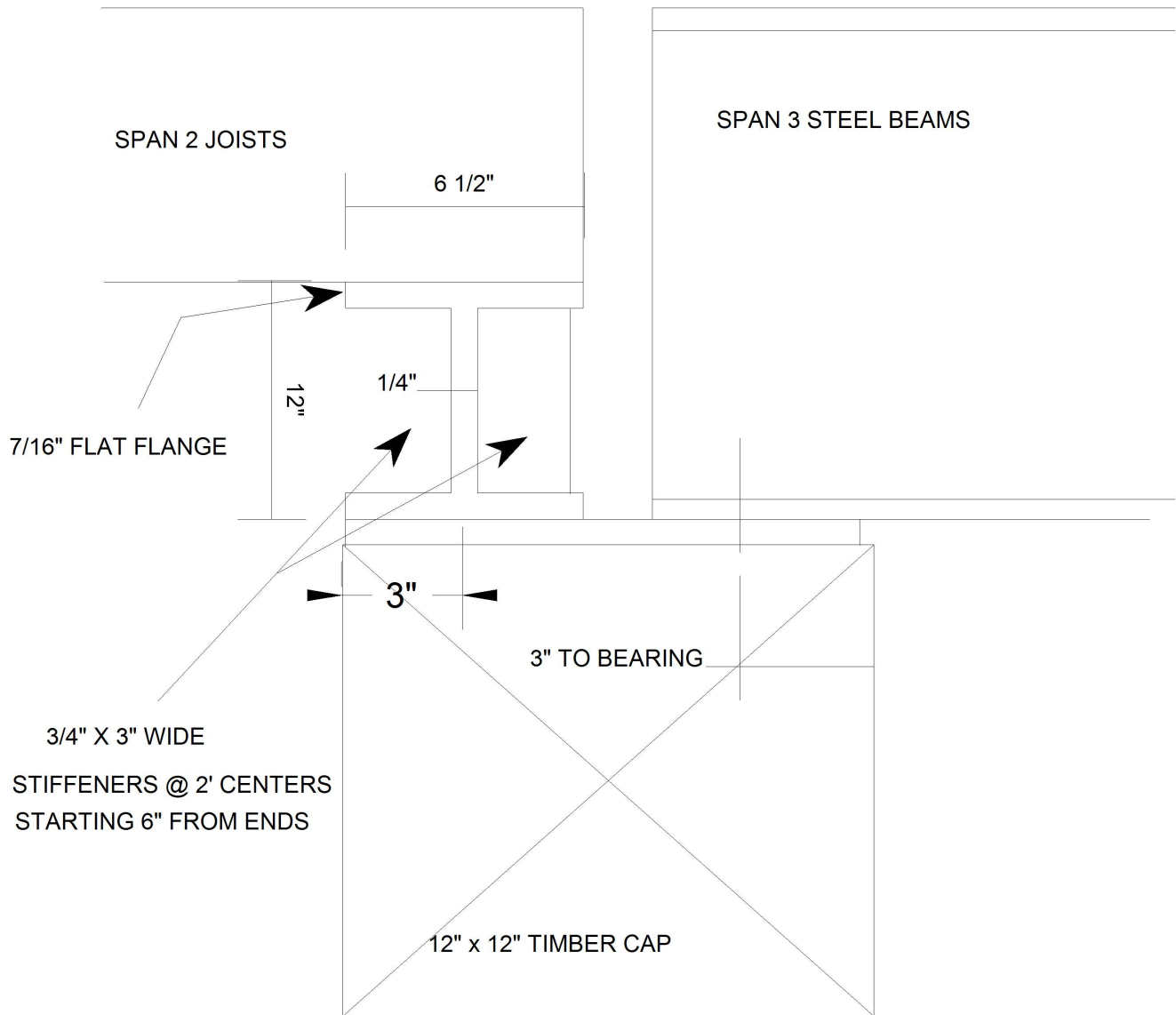
12" DEEP STEEL CAP ON TOP OF TIMBER CAP ON SPAN 2 SIDE

MEASUREMENTS VERIFIED BY BEA 9/02/15

VERIFIED FER 09/10/13

Title		Description	
SUBSTRUCTURE		BENT 2 ELEVATION, LOOKING EAST	
Bridge No: 410134	Drawn By: HMS	Date: 09/10/13	File Name: S0026001410

Bridge Inspection Field Sketch

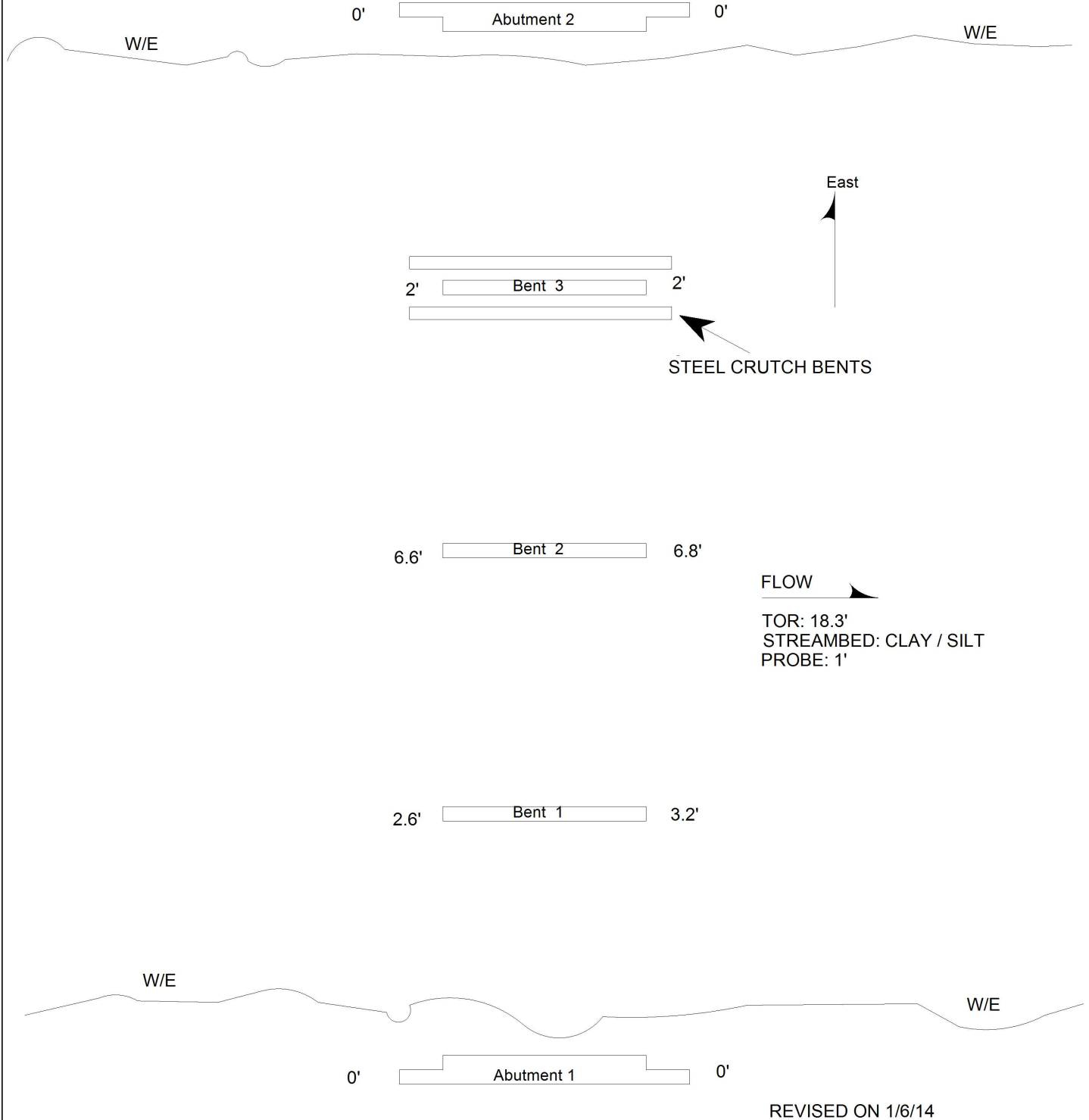


RIGHT SIDE BENT 2
BENT 3 END VIEW SIMILAR BUT REVERSED

MEASUREMENTS VERIFIED BY BEA 9/02/15

Title		Description	
END VIEW BENT 2		END VIEW BENT 2	
Bridge No: 410134	Drawn By: HMS	Date: 09/10/13	File Name: S0026001411

Bridge Inspection Field Sketch



Title

halifax 134

Description

plan view

Bridge No: 410134

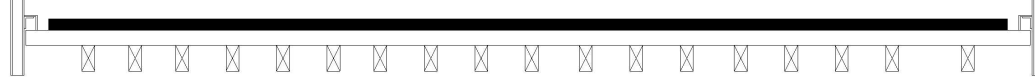
Drawn By: B.Presgrave

Date: 12/08/2005

File Name: S0166000015

Bridge Inspection Field Sketch

Deck Width/Out to Out	22.167ft	Between Rails			21.5ft
Clear Roadway	21.083ft	Wearing Surface			0.333ft
Median Width		Median Height			
Curb Height		Left	0.583ft	Right	0.583ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	0.583ft	Right	0.583ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right	2.417ft
Bridge Rail		Left	Type 23	Right	Type 23



Measurements for Span #	2		
Deck Thickness	0.333	Left Overhang	0.917
Top of Rail to Bottom of Beam	4.042	Right Overhang	0.917

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.083ft	ALL JOISTS 6" x 11-1/2"
2	Timber (Rectangular)	1.083ft	
3	Timber (Rectangular)	1.167ft	
4	Timber (Rectangular)	1.167ft	
5	Timber (Rectangular)	1.167ft	
6	Timber (Rectangular)	1.083ft	
7	Timber (Rectangular)	1.167ft	
8	Timber (Rectangular)	1.167ft	
9	Timber (Rectangular)	1.167ft	
10	Timber (Rectangular)	1.250ft	
11	Timber (Rectangular)	1.167ft	
12	Timber (Rectangular)	1.167ft	
13	Timber (Rectangular)	1.250ft	
14	Timber (Rectangular)	1.167ft	
15	Timber (Rectangular)	1.167ft	
16	Timber (Rectangular)	1.167ft	
17	Timber (Rectangular)	1.75ft	
18	Timber (Rectangular)		

MEASUREMENTS UPDATED BY BEA 9/02/15

Title

TYPICAL SECTION

Description

SPAN 2, LOOKING EAST

Bridge No: 410134

Drawn By: HMS

Date: 9/10/2013

File Name: S0350000335

Bridge Inspection Field Sketch

Deck Width/Out to Out	22.167ft	Between Rails		21.5ft
Clear Roadway	21.083ft	Wearing Surface		0.333ft
Median Width		Median Height		
Curb Height		Left	0.583ft	Right 0.583ft
Sidewalk Width		Left		Right
Clear Roadway (Rail to Median)		Left		Right
Guardrail Width		Left	0.583ft	Right 0.583ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft	Right 2.417ft
Bridge Rail		Left	Type 23	Right Type 23

Measurements for Span #	4		
Deck Thickness	0.333	Left Overhang	0.833
Top of Rail to Bottom of Beam	4.042	Right Overhang	0.833

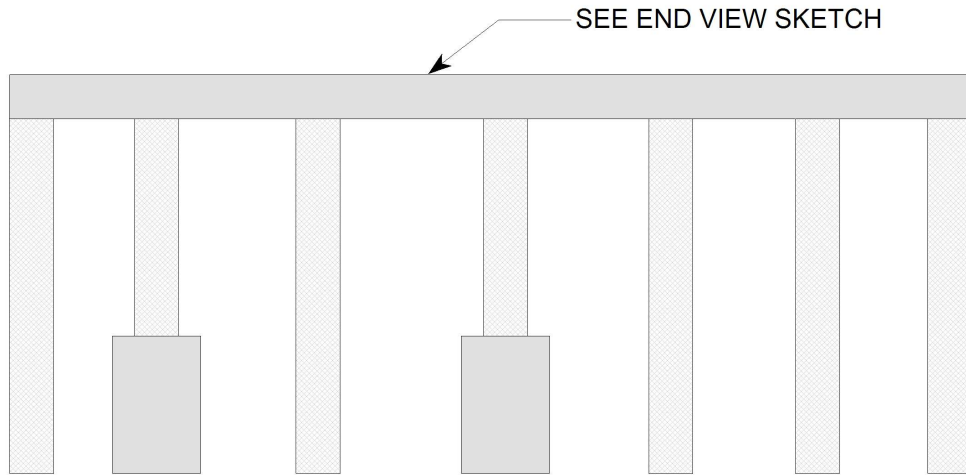
Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	0.9375ft	ALL JOISTS 6" x 11-1/2"
2	Timber (Rectangular)	1.125ft	
3	Timber (Rectangular)	1.104ft	
4	Timber (Rectangular)	1.208ft	
5	Timber (Rectangular)	1.208ft	
6	Timber (Rectangular)	1.208ft	
7	Timber (Rectangular)	1.167ft	
8	Timber (Rectangular)	1.167ft	
9	Timber (Rectangular)	1.167ft	
10	Timber (Rectangular)	1.208ft	
11	Timber (Rectangular)	1.208ft	
12	Timber (Rectangular)	1.208ft	
13	Timber (Rectangular)	1.208ft	
14	Timber (Rectangular)	1.146ft	
15	Timber (Rectangular)	1.167ft	
16	Timber (Rectangular)	1.167ft	
17	Timber (Rectangular)	0.917ft	
18	Timber (Rectangular)	0.9583ft	
19	Timber (Rectangular)	ft	

BEAM ADDED, SPACING ADJUSTED

MEASUREMENTS UPDATED BY BEA 9/02/15

Title TYPICAL SECTION		Description SPAN 4, LOOKING EAST	
Bridge No: 410134	Drawn By: HMS	Date: 9/10/2013	File Name: S0350000336

Bridge Inspection Field Sketch

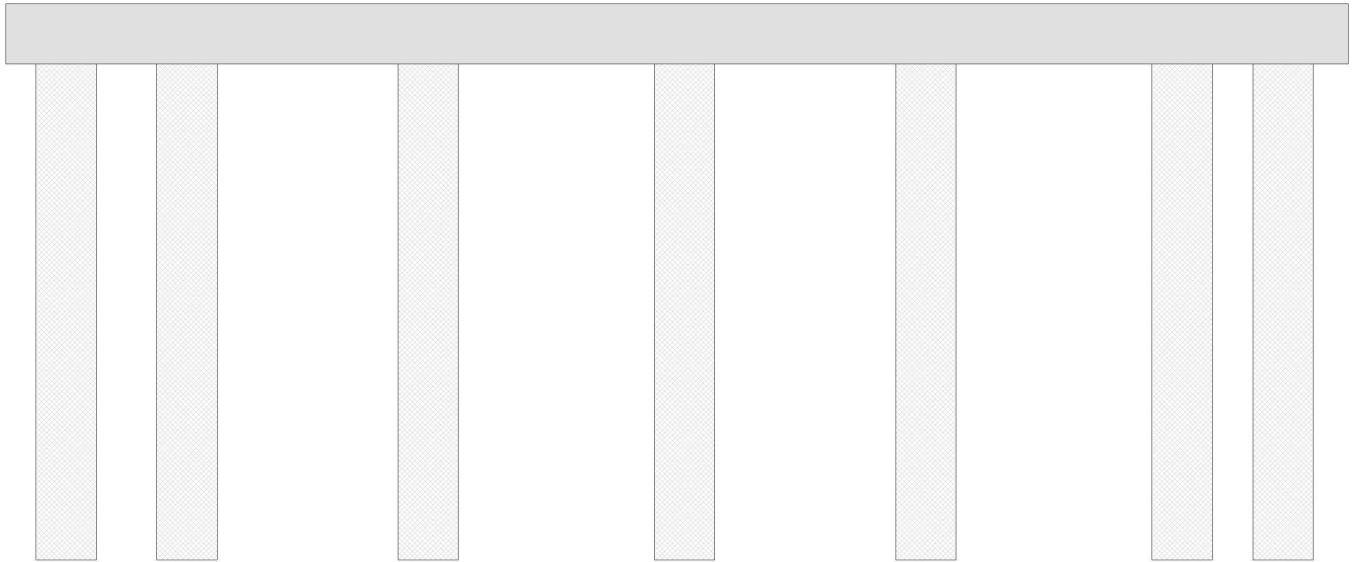


Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
21.833 ft.	1.000 ft.	1 ft.	.500 ft.	.583 ft.	.500 ft.	.917 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	2.833 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	3.667 ft.	1 ft.			Vertical	No	No	No	Yes
3	Timber	4.25 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	3.75 ft.	1 ft.			Vertical	No	No	No	Yes
5	Timber	3.33 ft.	1 ft.			Vertical	No	No	No	No
6	Timber	3.0 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Vertical	No	No	No	No
Bent/Abutment #: 2 Similar Bents:										

MEASUREMENTS VERIFIED BY BEA 9/02/15

Title SUBSTRUCTURE		Description END BENT 2 ELEVATION, LOOKING EAST	
Bridge No: 410134	Drawn By: HMS	Date: 9/10/2013	File Name: S0350000337

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.				
22.250 ft.	1 ft.	1 ft.	1.000 ft.	1.250 ft.	.833 ft.	.583 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	2 ft.	1 ft.			Vertical	No	No	No	No
2	Timber	4 ft.	1 ft.			Vertical	No	No	No	No
3	Timber	4.25 ft.	1 ft.			Vertical	No	No	No	No
4	Timber	4 ft.	1 ft.			Vertical	No	No	No	No
5	Timber	4.25 ft.	1 ft.			Vertical	No	No	No	No
6	Timber	1.67 ft.	1 ft.			Vertical	No	No	No	No
7	Timber		1 ft.			Vertical	No	No	No	No
CRUTCH BENT ADDED TO EACH SIDE OF BENT 3 - BEA 9/02/15										
Bent/Abutment #: 3			Similar Bents:							

Title			Description		
SUBSTRUCTURE			BENT 3 ELEVATION, LOOKING EAST		
Bridge No:	410134	Drawn By:	HMS	Date:	9/10/2013
			File Name:	S0350000338	

Bridge Inspection Field Sketch										
Cap Information			Material Steel							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.		Right Beam to End of Cap.			
27.750 ft.	1.020 ft.	1.000 ft.	1.750 ft.	1.750 ft.	3.458 ft.		3.458 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	Steel	9.667 ft.	1.02 ft.	1 ft.			No	No	No	No
2	Steel	7.583 ft.	1.02 ft.	1 ft.			No	No	No	No
3	Steel	7.000 ft.	1.02 ft.	1 ft.			No	No	No	No
4	Steel		1.02 ft.	1 ft.			No	No	No	No
Bent/Abutment #: 3			Similar Bents:							
Title						Description				
SPAN 3 CRUTCH BENT						STEEL CRUTCH BENT				
Bridge No: 410134			Drawn By: BEA			Date: 9/02/2015		File Name: S0166000811		

Bridge Inspection Field Sketch										
Cap Information			Material Steel							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
27.750 ft.	1.020 ft.	1.000 ft.	1.750 ft.	1.750 ft.	3.635 ft.	3.635 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	Steel	8.833 ft.	1.02 ft.	1 ft.			No	No	No	No
2	Steel	7.417 ft.	1.02 ft.	1 ft.			No	No	No	No
3	Steel	8.000 ft.	1.02 ft.	1 ft.			No	No	No	No
4	Steel		1.02 ft.	1 ft.			No	No	No	No
Bent/Abutment #: 3			Similar Bents:							
Title SPAN 4 CRUTCH BENT						Description STEEL CRUTCH BENT				
Bridge No: 410134		Drawn By: BEA				Date: 9/02/2015		File Name: S0462000083		