NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: STRUCTURE DATA CHANGED, PRIORITY MAINTENANCE, SALVAGED BEAMS

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: LINCOLN **STRUCTURE NUMBER:** 540144 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1200 SR 1200 **MILE POST:**

LOCATION: 1.3 MI. N. JCT. SR1187 1.3 MILES NORTH OF JUNCTION WITH SR1187

FEATURE INTERSECTED: HOWARDS CREEK

LATITUDE: 35° 29' 52.2" **LONGITUDE:** 81° 20' 24.08"

SUPERSTRUCTURE: TIMBER DECK ON SALVAGED I-BEAMS TIMBER DECK ON I-BEAMS

SUBSTRUCTURE: END & INTERIOR BENTS:TIMBER CAPS ON TIMBER PILES

SPANS: 1@17'-3", 1@16'-10", 1@39'-1", 1@17'-8", 1@17'-10" 1@17'3", 1@16'10", 1@39'1", 1@17'8", 1@17'10"

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

PRESENT CONDITION: Fair **INSPECTION DATE:** 03/02/2016

POSTED SV: 17 **POSTED TTST:** 20

OTHER SIGNS PRESENT: (2) NARROW BRIDGE; (4) DELINEATORS



Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

LOOKING NORTH

INSPECTED BY	SIGNATURE	ASSISTED BY
FORREST E. ROBBINS	Forrest E. Robbins	MARK E. GUSTAFSON

Span Element Report

Structure Number: 540144 Inspection Date: 03/02/2016

Span Number 1 **Span Length** 17.25 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	348	348	0	0	0	0	3324
107		Steel Open Girder/Beam	180	180	0	0	0	0	3314
515	107	Steel Protective Coating	590	590	0	0	0	0	3342
216		Timber Abutment	25	14	0	4	7	11	3346
228		Timber Pile	3	3	0	0	0	0	3344
235		Timber Pier Cap	20	20	0	0	0	0	3344
316		Other Bearings	20	20	0	0	0	0	3334
515	316	Steel Protective Coating	20	20	0	0	0	0	3342
332		Timber Bridge Railing	36	36	0	0	0	0	3316
510		Wearing Surface	331	331	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

Span Number 2 **Span Length** 16.83 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	340	340	0	0	0	0	3324
107		Steel Open Girder/Beam	170	167	0	0	3	3	3314
515	107	Steel Protective Coating	584	584	0	0	0	0	3342
228		Timber Pile	3	2	0	1	0	1	3344
235		Timber Pier Cap	20	19	0	1	0	1	3344
316		Other Bearings	20	20	0	0	0	0	3334
515	316	Steel Protective Coating	20	20	0	0	0	0	3342
332		Timber Bridge Railing	34	33	0	1	0	1	3316
510		Wearing Surface	323	323	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

Span Number 3 **Span Length** 39.08 Feet **Number of Beams/Girders:** 8

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	789	789	0	0	0	0	3324
107		Steel Open Girder/Beam	320	320	0	0	0	0	3314
515	107	Steel Protective Coating	1424	1424	0	0	0	0	3342
228		Timber Pile	3	3	0	0	0	0	3344
235		Timber Pier Cap	20	20	0	0	0	0	3344
316		Other Bearings	16	16	0	0	0	0	3334
515	316	Steel Protective Coating	16	16	0	0	0	0	3342
332		Timber Bridge Railing	80	79	1	0	0	1	3316
510		Wearing Surface	750	750	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

Span Number 4 **Span Length** 17.67 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	357	357	0	0	0	0	3324
107		Steel Open Girder/Beam	180	180	0	0	0	0	3314
515	107	Steel Protective Coating	660	660	0	0	0	0	3342
228		Timber Pile	3	3	0	0	0	0	3344
235		Timber Pier Cap	20	20	0	0	0	0	3344
316		Other Bearings	20	20	0	0	0	0	3334
515	316	Steel Protective Coating	20	20	0	0	0	0	3342
332		Timber Bridge Railing	36	36	0	0	0	0	3316
510		Wearing Surface	339	339	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

Span Number 5 **Span Length** 17.83 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	360	360	0	0	0	0	3324
107		Steel Open Girder/Beam	180	175	0	0	5	5	3314
515	107	Steel Protective Coating	660	660	0	0	0	0	3342
216		Timber Abutment	25	9	0	8	8	16	3346
228		Timber Pile	6	6	0	0	0	0	3344
235		Timber Pier Cap	40	40	0	0	0	0	3344
316		Other Bearings	20	20	0	0	0	0	3334
515	316	Steel Protective Coating	20	20	0	0	0	0	3342
332		Timber Bridge Railing	36	35	0	1	0	1	3316
510		Wearing Surface	342	342	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 Quantites

Structure Number: 540144

Inspection Date: 03/02/2016

Structure Number: 540144 Inspection Date: 03/02/2016

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	348	348	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	331	331	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	2	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	3	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	4	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	5	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	6	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	7	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	8	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	9	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	0	0	0	0	3342	
☑ Beam	10	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	59	59	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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 540144 Inspection Date: 03/02/2016

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
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ 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: 540144 Inspection Date: 03/02/2016

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Bearing Device	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: 540144 Inspection Date: 03/02/2016

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	340	340	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	17	16	0	1	0	1	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	17	17	0	0	0	0	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	323	323	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	62	62	0	0	0	0	3342	
☑ Beam	2	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	3	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	62	62	0	0	0	0	3342	
☑ Beam	4	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	5	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	6	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	7	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	8	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	56	56	0	0	0	0	3342	
☑ Beam	9	107	Steel Open Girder/Beam	17	14	0	0	3	3	3314	☑ Requested
Protective System		515	Steel Protective Coating	62	62	0	0	0	0	3342	
☑ Beam	10	107	Steel Open Girder/Beam	17	17	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	62	62	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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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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
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ 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: 540144 Inspection Date: 03/02/2016

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
☑ 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	

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Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	31	Timber Deck	789	789	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	40	40	0	0	0	0	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	40	39	1	0	0	1	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	750	750	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	2	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	3	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	4	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	5	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	6	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	7	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	0	0	0	0	3342	
☑ Beam	8	107	Steel Open Girder/Beam	40	40	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	178	178	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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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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
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	

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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	357	357	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	339	339	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	2	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	3	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	4	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	5	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	6	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	7	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	8	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	9	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	10	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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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
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ 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	

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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
☑ 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	

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Span Number 5

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	31	Timber Deck	360	360	0	0	0	0	3324	☐ Requested
☑ Bridge Rail	1	332	Timber Bridge Railing	18	17	0	1	0	1	3316	☐ Requested
☑ Bridge Rail	2	332	Timber Bridge Railing	18	18	0	0	0	0	3316	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	342	342	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	2	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	3	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	4	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	5	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	6	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	7	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	8	107	Steel Open Girder/Beam	18	15	0	0	3	3	3314	☑ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	9	107	Steel Open Girder/Beam	18	16	0	0	2	2	3314	☑ Requested
Protective System		515	Steel Protective Coating	66	66	0	0	0	0	3342	
☑ Beam	10	107	Steel Open Girder/Beam	18	18	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	66	66	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	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☑ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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Span Number 5

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

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Span Number 5

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ 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	

Superstructure Element Defect Descriptions

Structure Number: 540144 Inspection Date: 03/02/2016

Span Number 1

Span 1 **Bridge Rail** 1 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 1 **Bridge Rail** 2 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span Number 2

Span 2 **Bridge Rail** 1 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 17 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

CENTER RAIL NOT CONNECTED, RAIL POST 1 FROM BENT 1.

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 2 **Bridge Rail** 2 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 17 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 2 **Beam** 9 **Component Name:** Plate Girder



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 17 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 3 **Maint. Qty** 3

Defect Description:

32" OF HEAVY PITTING WITH SECTION LOSS TO KNIFE EDGE, PAINTED OVER, BOTTOM FLANGE EXTENDING 3" INTO WEB, AT BENT 1. (PM)

Span Number 3

Span 3 **Bridge Rail** 1 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 40 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 3 **Bridge Rail** 2 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 40 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

BOTTOM THROUGH BOLT IS LOOSE, RAIL POST 4 FROM BENT 2.

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span Number 4

Span 4 **Bridge Rail** 1 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 4 **Bridge Rail** 2 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span Number 5

Span 5 **Bridge Rail** 1 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

CENTER RAIL NOT CONNECTED, RAIL POST 2 FROM BENT 5.

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 5 **Bridge Rail** 2 **Component Name:** Timber Rail

Element: 332 **Name** Timber Bridge Railing **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

RANDOM CHECKS AND SHAKES THROUGHOUT CURB.

PAINT PEEL UP TO 5 PERCENT, TOP OF RAIL.

Span 5 **Beam** 8 **Component Name:** Plate Girder



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 3 **Maint. Qty** 3

Defect Description:

30" HEAVY RUST SCALE WITH SECTION LOSS, 3/16" REMAINING, BOTTOM FLANGE, AT END BENT 2. (PM)
3' HEAVY RUST SCALE WITH SECTION LOSS TO KNIFE EDGE, TOP FLANGE, AT END BENT 2. (PM)

Span 5 **Beam** 9 **Component Name:** Plate Girder



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 18 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 2 **Maint. Qty** 2

Defect Description:

14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2. (PM)

Substructure Detailed Element Quantites

Structure Number: 540144 Inspection Date: 03/02/2016

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Abutments	1	216	Timber Abutment	25	14	0	4	7	11	3346	☑ Requested
☑ Caps	1	235	Timber Pier Cap	20	20	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

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	20	19	0	1	0	1	3344	☐ Requested
☑ Piles and Columns	1	228	Timber Pile	1	0	0	1	0	1	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

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	20	20	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

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	20	20	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

Bent 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Caps	1	235	Timber Pier Cap	20	20	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

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	25	9	0	8	8	16	3346	☑ Requested
☑ Caps	1	235	Timber Pier Cap	20	20	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

Substructure Element Defect Descriptions

Structure Number: 540144 Inspection Date: 03/02/2016

End Bent 1

End Bent 1	**Row** 1	**Abutments**	1								
Element: 216	**Name** Timber Abutment		**Qty:** 25	**Lvl 2:** 0	**Lvl 3** 4	**Lvl 4** 7	**Maint. Qty** 11				

Defect Description:

4' X 2' AREA OF DECAY, BULKHEAD BOARDS 3 AND 4 FROM TOP, WEST END OF SOUTHWEST WINGWALL.
7' X 12" AREA OF DECAY WITH SOIL SPILLING THROUGH, BULKHEAD BOARDS 3 AND 4 FROM TOP, EAST END OF SOUTHEAST WINGWALL. (PM)

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

Defect Description:

4" X 12" X 4" AREA OF DECAY, TOP WEST END OF CAP.

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

Defect Description:

6" X 12" X 1" AREA OF DECAY, WEST FACE, AT GROUND.

Bent 3	**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:

4' OF COMPLETE SECTION LOSS AND DECAY, CROSS BRACE BETWEEN PILES 2 AND 3.

End Bent 2	**Row** 1	**Abutments**	1								
Element: 216	**Name** Timber Abutment		**Qty:** 25	**Lvl 2:** 0	**Lvl 3** 8	**Lvl 4** 8	**Maint. Qty** 16				

Defect Description:

8' X 2' AREA OF DECAY WITH SOIL SPILLING THROUGH, TOP 2 BULKHEAD BOARDS AND 5TH DOWN, EAST END OF NORTHEAST WINGWALL. (PM)
8' X 8" AREA OF DECAY, BULKHEAD BOARD BELOW CAP, BETWEEN PILES 1 AND 2.

National Bridge and NC Inspection Items

Structure Number: 540144 **Inspection Date:** 03/02/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**7**
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	**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	**F**	**2192**	**3376**
Drainage System	G, F, P, or C	**P**	**158**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C	**P**	**19**	**3350**
Field Scour Evaluation		**O**		
Drift	G, F, P, or C	**F**	**4**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Estimated Remaining Life	0 - 100 Years	**16**		

Note: If NC SMU Insepction 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	**10**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**Y**

National Bridge and NC SMU Inspection Item Details

Structure Number: 540144 **Inspection Date:** 03/02/2016

Item	Presently Posted	**Grade**	Y	**Maint Code**		**Qty.**	0
Details	SV 17; TTST 20						

Item	Other Equipment Used	**Grade**	Y	**Maint Code**		**Qty.**	0
Details	WADERS.						

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	2192
Details	108'-8 X 12" DEBRIS AND VEGETATION ALONG RIGHT CURB.						
	108'-8" X 12" DEBRIS AND VEGETATION ALONG LEFT CURB.						

Item	Drainage System	**Grade**	P	**Maint Code**	3332	**Qty.**	158
Details	UP TO 95% BLOCKAGE ALONG FULL LENGTH, 108'-8", OF RIGHT CURB.						
	UP TO 50% BLOCKAGE ALONG FULL LENGTH, 108'-8", OF LEFT CURB.						

Item	Drift	**Grade**	F	**Maint Code**	3366	**Qty.**	4
Details	50 SQ FT DRIFT SURROUNDING BENT 2, PILE 2.						
	10" DIAMETER LOG OUTSIDE BENT 2, PILE 3.						

Item	Wingwalls	**Grade**	P	**Maint Code**	3350	**Qty.**	19
Details	WINGWALLS ARE EXTENDED BULKHEAD. SEE END BENT ABUTMENT NOTES.						



Span 3 Right Bridge Rail: BOTTOM THROUGH BOLT IS LOOSE, RAIL POST 4 FROM BENT 2.



Span 2 Left Bridge Rail: CENTER RAIL NOT CONNECTED, RAIL POST 1 FROM BENT 1.



Span 5 Left Bridge Rail: CENTER RAIL NOT CONNECTED, RAIL POST 2 FROM BENT 4.



Span 2 Right Rail: PAINT PEEK UP TO 5 PERCENT, TOP OF RAIL.



Span 2 Left Rail: PAINT PEEK UP TO 5 PERCENT, TOP OF RAIL.



Deck Debris: 108'-8" X 12" DEBRIS AND VEGETATION ALONG RIGHT CURB.



Deck Debris: 108'-8" X 12" DEBRIS AND VEGETATION ALONG LEFT CURB.



Drainage System: UP TO 95% BLOCKAGE ALONG 108'-8", OF RIGHT CURB.



Drainage System: UP TO 50% BLOCKAGE ALONG 108'-8", OF LEFT CURB.



End Bent 1 Abutment/Backwall : 4' X 2' AREA OF DECAY, BULKHEAD BOARDS 3 AND 4 FROM TOP, WEST END OF SOUTHWEST WINGWALL.



Bent 1 Cap : 4" X 12" X 4" AREA OF DECAY, TOP WEST END OF CAP.



Bent 1 Pile 1: 6" X 12" X 1" AREA OF DECAY, WEST FACE, AT GROUND.



End Bent 1 Abutment/Backwall : 7' X 12" AREA OF DECAY WITH SOIL SPILLING THROUGH, BULKHEAD BOARDS 3 AND 4 FROM TOP, EAST END OF SOUTHEAST WINGWALL. (PM)



Span 2 Beam 9: 32" OF HEAVY PITTING WITH SECTION LOSS TO KNIFE EDGE, PAINTED OVER, BOTTOM FLANGE EXTENDING 3" INTO WEB, AT BENT 1. (PM)



Drift: 50 SQ FT DRIFT SURROUNDING BENT 2, PILE 2.



Drift: 10" DIAMETER LOG OUTSIDE BENT 2, PILE 3.



Bent 3 Pile 2: 4' OF COMPLETE SECTION LOSS AND DECAY, CROSS BRACE BETWEEN PILES 2 AND 3.



End Bent 2 Abutment/Backwall : 8' X 2' AREA OF DECAY WITH SOIL SPILLING THROUGH, TOP 2 BULKHEAD BOARDS AND 5TH DOWN, EAST END OF NORTHEAST WINGWALL. (PM)



Span 5 Beam 8: 30" HEAVY RUST SCALE WITH SECTION LOSS, 3/16" REMAINING, BOTTOM FLANGE, AT END BENT 2. (PM)



Span 5 Beam 8: 3' HEAVY RUST SCALE WITH SECTION LOSS TO KNIFE EDGE, TOP FLANGE, AT END BENT 2. (PM)



Span 5 Beam 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2. (PM)



Span 5 Beam 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2. (PM)



End Bent 2 Abutment/Backwall : 8' X 8" AREA OF DECAY, BULKHEAD BOARD BELOW CAP, BETWEEN PILES 1 AND 2.



NARROW BRIDGE SIGN 0.1 MILE SOUTH OF BRIDGE



NARROW BRIDGE SIGN 0.1 MILE NORTH OF BRIDGE



NORTH APPROACH, LOOKING SOUTH



POSTING



ASPHALT WEARING SURFACE OVER END BENT 2, LOOKING EAST



NORTHWEST WINGWALL



NORTHEAST WINGWALL



WEST BRIDGE RAIL



EAST BRIDGE RAIL



ASPHALT WEARING SURFACE OVER BENT 4, LOOKING EAST



UPSTREAM VIEW FROM BRIDGE DECK, LOOKING WEST



DOWNSTREAM VIEW FROM BRIDGE DECK, LOOKING EAST



CRACK IN ASPHALT WEARING SURFACE OVER BENT 3, LOOKING EAST



CRACK IN ASPHALT WEARING SURFACE OVER BENT 2, LOOKING EAST



CRACK IN ASPHALT WEARING SURFACE OVER BENT 1, LOOKING EAST



CRACK IN ASPHALT WEARING SURFACE OVER END BENT 1, LOOKING EAST



ASPHALT WEARING SURFACE, SPAN 1, LOOKING EAST



SOUTHWEST WINGWALL



SOUTHEAST WINGWALL



SOUTH APPROACH, LOOKING NORTH



LOOKING NORTH



END BENT 1 ELEVATION, LOOKING SOUTH



END BENT 1 SLOPE PROTECTION, LOOKING SOUTH



BENT 2 ELEVATION, LOOKING NORTH



SUPERSTRUCTURE UNDERSIDE, SPAN 2, LOOKING NORTH



BEARING ASSEMBLY, BEAM 10, END BENT 1, LOOKING SOUTH



BEARING ASSEMBLY OVER BENT 1, BEAM 10, LOOKING WEST



BEARING ASSEMBLY, BENT 2, SPAN 2 BEAM 9, SPAN 3 BEAM 7, LOOKING NORTH



BEARING ASSEMBLY, BENT 2, SPAN 2 BEAM 7, SPAN 3 BEAM 6, LOOKING NORTH



BENT 1 ELEVATION, LOOKING SOUTH



BENT 3 ELEVATION, LOOKING NORTH



SUPERSTRUCTURE UNDERSIDE, SPAN 3, LOOKING NORTH



INTERMEDIATE DIAPHRAGM, BETWEEN BEAMS 6 AND 7, SPAN 3, LOOKING NORTH



UPSTREAM PROFILE, LOOKING EAST



DOWNSTREAM PROFILE, LOOKING WEST



BEARING ASSEMBLY, BENT 3, SPAN 3 BEAM 8, SPAN 4 BEAM 10, LOOKING NORTH



BENT 4 ELEVATION, LOOKING NORTH



END BENT 2 SLOPE PROTECTION, LOOKING NORTH



END BENT 2 ELEVATION, LOOKING NORTH



BEARING ASSEMBLY, BENT 4, BEAM 7, LOOKING SOUTH

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 07/20/2016

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **540144**
(8) STRUCTURE NUMBER(FEDERAL) 000000001090144
(5) INVENTORY ROUTE (ON/UNDER) - ON 31012000
(2) STATE HIGHWAY DEPARTMENT DISTRICT 3
(3) COUNTY CODE 109 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - HOWARDS CREEK
(7) FACILITY CARRIED SR1200
(9) LOCATION 1.3 MI. N. JCT. SR1187
(11)MILEPOINT 0
(16)LAT 35° 29' 52.20" (17)LONG 81° 20' 24.08"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
TYPE - Stringer Mutlibeam or Girder CODE 302
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 5
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 8 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 1953
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway
UNDER - Waterway CODE 15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 850
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 1 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 39 FT
(49) STRUCTURE LENGTH 109 FT
(50)CURB OR SIDEWALK: LEFT .333 FT RIGHT .333 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.167 FT
(52) DECK WIDTH OUT TO OUT 20.167 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 17 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 0° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.167 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
(56) MIN LAT UNDERCLEAR LT REF - 000 FT

NAVIGATION DATA

(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

SUFFICIENCY RATING = 29.81
STATUS = Functionally Obsolete

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Local 09
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE -
(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

CONDITION — CODE

(58) DECK 6
(59) SUPERSTRUCTURE 7
(60) SUBSTRUCTURE 5
(61) CHANNEL & CHANNEL PROTECTION 7
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD Unknown 0
(63) OPERATING RATING METHOD - Allowable Stress 2
(64) OPERATING RATING - HS-12 21
(65) INVENTORY RATING METHOD - Allowable Stress 2
(66) INVENTORY RATING - HS-6 10
(70) BRIDGE POSTING - Posting Required 0
(41) STRUCTURE OPEN, POSTED ,OR CLOSED P
DESCRIPTION - Posted for Load

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 3
(68) DECK GEOMETRY 2
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0000
(113)SCOUR CRITICAL BRIDGES U

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 1700 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 03/02/2016
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 07/20/2016

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
LINCOLN	12	3	540144	109 FEET

ROUTE CARRIED : SR1200

FEATURE INTERSECTED : HOWARDS CREEK

LOCATED : 1.3 MI. N. JCT. SR1187

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :	
09	NFA	NFA	850	2012	LT 227	RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1953	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
	BMU	5.8351	TAN	90	ON 2	UNDER 0

NAVIGATION :				HT. CRN. TO BED :		WATER DEPTH :	
VC	0	FT	HC 0	FT	18 FT	2	FT

SUPERSTRUCTURE : TIMBER DECK ON I-BEAMS

SUBSTRUCTURE : END & INTERIOR BENTS:TIMBER CAPS ON TIMBER PILES

SPANS : 1@17'3", 1@16'10", 1@39'1", 1@17'8", 1@17'10"

BEAMS OR GIRDERS : SP#1&2,4&5:10 LINES OF 12" I-BEAMS, SP#3:8 LINES OF 16" I-BEAMS, ALL@ VARIOUS CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
3X4" TIM, 2" AWS		20.167 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
19.167 FT	19.833 FT	LT	.333 FT	RT	.333 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-6	HS-12	Int.bmsSpC ,Pile2-Pier3	SV 17	TTST 20	DATE 12/15/1987		

SYSTEM : Secondary S.R. Route

GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 540144 County LINCOLN Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	2	SPAN 5 BEAM 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2.	
3314	Maintain Steel Superstructure Components	LF	3	SPAN 5 BEAM 8: 3' HEAVY RUST SCALE WITH SECTION LOSS TO KNIFE EDGE, TOP FLANGE, AT END BENT 2.	
3314	Maintain Steel Superstructure Components	LF	3	SPAN 5 BEAM 8: 30" HEAVY RUST SCALE WITH SECTION LOSS, 3/16" REMAINING, BOTTOM FLANGE, AT END BENT 2.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	16	END BENT 2 ABUTMENT/BACKWALL : 8' X 2' AREA OF DECAY WITH SOIL SPILLING THROUGH, TOP 2 BULKHEAD BOARDS AND 5TH DOWN, EAST END OF NORTHEAST WINGWALL.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	7	END BENT 1 ABUTMENT/BACKWALL : 7' X 12" AREA OF DECAY WITH SOIL SPILLING THROUGH, BULKHEAD BOARDS 3 AND 4 FROM TOP, EAST END OF SOUTHEAST WINGWALL.	
3314	Maintain Steel Superstructure Components	LF	3	SPAN 2 BEAM 9: 32" OF HEAVY PITTING WITH SECTION LOSS TO KNIFE EDGE, PAINTED OVER, BOTTOM FLANGE EXTENDING 3" INTO WEB, AT BENT 1.	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540144 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 5	STEEL BEAM

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

SPAN 5 BEAM 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Beams and Girders	Bent/Span No. 5	STEEL BEAM

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

SPAN 5 BEAM 8: 3' HEAVY RUST SCALE WITH SECTION LOSS TO KNIFE EDGE, TOP FLANGE, AT END BENT 2.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540144 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Beams and Girders	Bent/Span No. 5	STEEL BEAM

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

SPAN 5 BEAM 8: 30" HEAVY RUST SCALE WITH SECTION LOSS, 3/16" REMAINING, BOTTOM FLANGE, AT END BENT 2.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	16 SF

Location:		
Abutment Substructure	Bent/Span No. 2	TIMBER BULKHEAD BOARDS

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

END BENT 2 ABUTMENT/BACKWALL : 8' X 2' AREA OF DECAY WITH SOIL SPILLING THROUGH, TOP 2 BULKHEAD BOARDS AND 5TH DOWN, EAST END OF NORTHEAST WINGWALL.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540144 County LINCOLN

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

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	7 SF

Location:

Abutment Substructure Bent/Span No. 1 TIMBER BULKHEAD BOARDS

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

END BENT 1 ABUTMENT/BACKWALL : 7' X 12" AREA OF DECAY WITH SOIL SPILLING THROUGH, BULKHEAD BOARDS 3 AND 4 FROM TOP, EAST END OF SOUTHEAST WINGWALL.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:

Beams and Girders Bent/Span No. 2 STEEL BEAM

Priority Level	Status
Recommended	Routine Maintenance

Submitted Date:	Submitted By:	Assisted By:
03/03/2016	FORREST E. ROBBINS	MARK E. GUSTAFSON

Details

SPAN 2 BEAM 9: 32" OF HEAVY PITTING WITH SECTION LOSS TO KNIFE EDGE, PAINTED OVER, BOTTOM FLANGE EXTENDING 3" INTO WEB, AT BENT 1.



END BENT 1 ABUTMENT/BACKWALL : 7' X 12" AREA OF DECAY WITH SOIL SPILLING THROUGH, BULKHEAD BOARDS 3 AND 4 FROM TOP, EAST END OF SOUTHEAST WINGWALL.



SPAN 2 BEAM 9: 32" OF HEAVY PITTING WITH SECTION LOSS TO KNIFE EDGE, BOTTOM FLANGE EXTENDING 3" INTO WEB, AT BENT 1.



END BENT 2 ABUTMENT/BACKWALL : 8' X 2' AREA OF DECAY WITH SOIL SPILLING THROUGH, TOP 2 BULKHEAD BOARDS AND 5TH DOWN, EAST END OF NORTHEAST WINGWALL.



SPAN 5 BEAM 8: 30" HEAVY RUST SCALE WITH SECTION LOSS, 3/16" REMAINING, BOTTOM FLANGE, AT END BENT 2.



SPAN 5 BEAM 8: 3' HEAVY RUST SCALE WITH SECTION LOSS TO KNIFE EDGE, TOP FLANGE, AT END BENT 2.



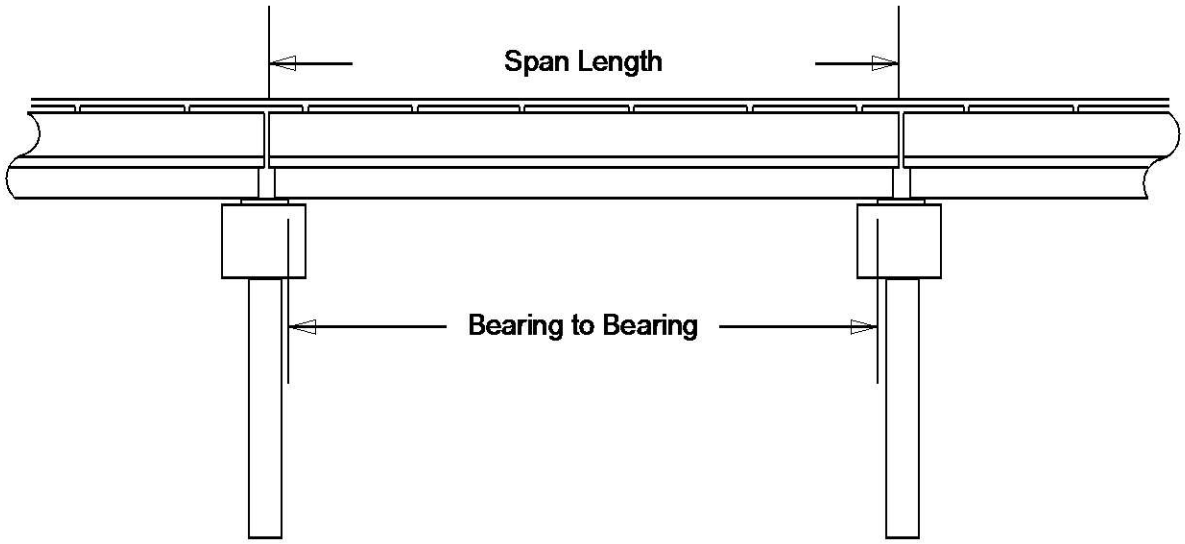
SPAN 5 BEAM 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2.



SPAN 5 BEAM 9: 14" HEAVY RUST SCALE WITH COMPLETE SECTION LOSS, BOTTOM FLANGE, AT END BENT 2.

Structure Data Worksheet

County: LINCOLN **Structure No:** 540144 **Date:** **Inspected By:** FER



Span No	Span Length	Bearing to Bearing	Comments
1	17.250'	16.083'	
2	16.833'	16.333'	
3	39.083'	39.250'	
4	17.667'	16.917'	
5	17.833'	16.667'	NBIS LENGTH = 106'-0"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 540144 **County:** LINCOLN **Date:** **By:** FER

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

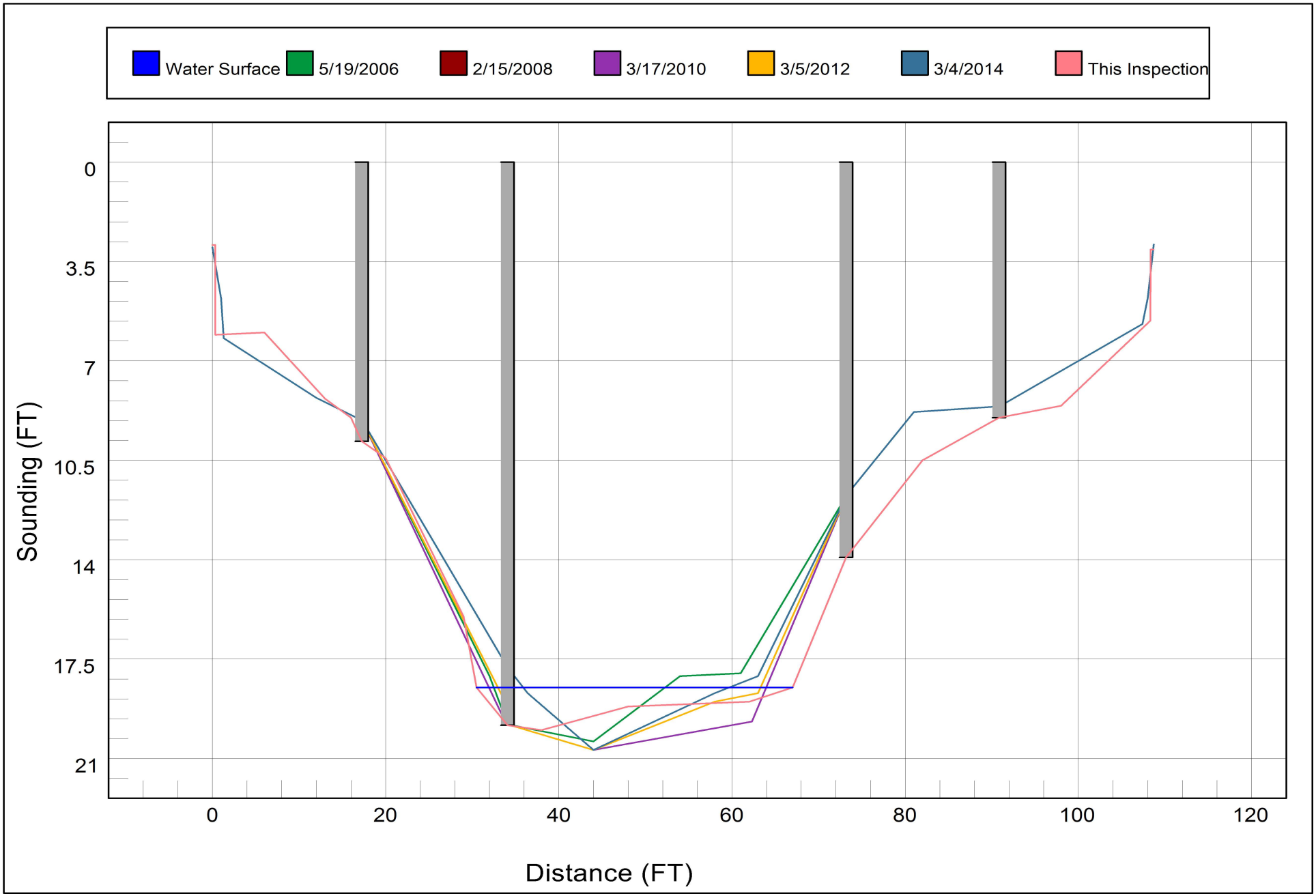
Distance from Highwater Mark to top of rail: 12 **Location of Highwater Mark:** CUT ON BANK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.92	FILL FACE			
0.33	2.92				
0.34	6.08		0.34	5.92	
6	6				
13	8.33				
16	9				
17.25	9.83	BENT 1	17.25	9.33	BENT 1
20	10.42				
29	16				
30.5	18.5	Water Surface/Water Edge (WSWE)			
34.08	19.83	BENT 2	34.08	17.83	BENT 2
38	20				
48	19.17				
62	19				
67	18.5	Water Surface/Water Edge (WSWE)			
73.167	13.92	BENT 3			
82	10.5				
90.83	9	BENT 4	90.83	9	BENT 4
98	8.58				
108.32	5.58		108.32	5.58	
108.33	3.08				
108.67	3.08	FILL FACE			

Bridge: 540144 County LINCOLN Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



MEASURED 30' SOUTH OF END BENT 1

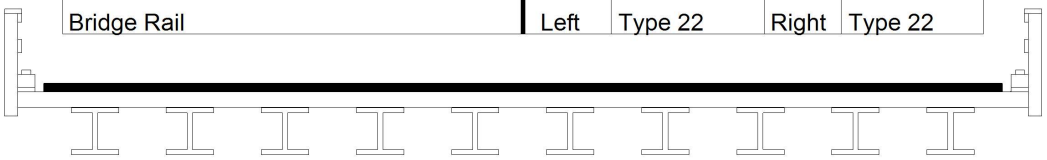
Roadway	17.333ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	8ft Wide		8ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY FER 3/2/2016

Title	**Description**		
APPROACH	APPROACH DETAILS		
Bridge No: 540144	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000657

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.167ft	Between Rails				19.833ft
Clear Roadway	19.167ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.667ft	Right	0.667ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.5ft	Right	0.5ft	
Top of Rail to Deck/Wearing Surface		Left	2.75ft	Right	2.75ft	
Bridge Rail		Left	Type 22	Right	Type 22	



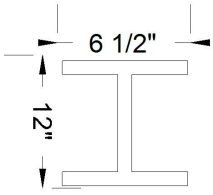
Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	1.08
Top of Rail to Bottom of Beam	4.667	Right Overhang	1.08

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

SPAN 2 BM. 1,3,9,10
SPAN 4 BM. ALL BMS.
SPAN 5 BM. 1-3,5,7-10

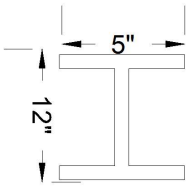
SPAN 1 BM. ALL BMS.
SPAN 2 BM. 2,4-8
SPAN 5 BM. 4,6

NO CURVED GIRDERS



NON TAPERED FLG.

FLG. THICKNESS= 5/16"
WEB THICKNESS= 1/4"



TAPERED FLG.

FLG. THICKNESS= 3/8"
WEB THICKNESS= 5/16"

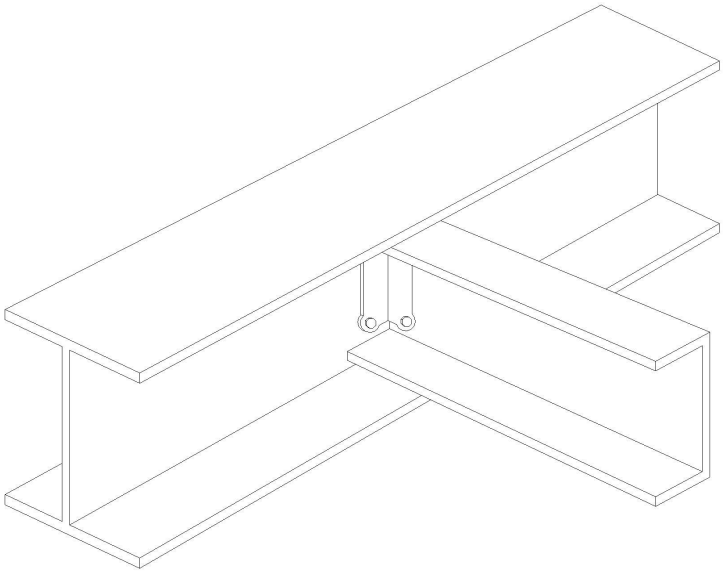
GUARDRAIL WIDTH ADDED
OVERHANGS CHANGED

MODIFIED BY FER 3/2/2016

Title	**Description**		
SPANS #1,2,4 & 5	SUPERSTRUCTURE DETAILS		
Bridge No: 540144	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000658

Bridge Inspection Field Sketch

DIAPHS. IN SPAN 3



SIZE: 2 1/2" X 10"
5 1/2" FROM BOTTOM FLG. TO FIRST BOLT
WITH 3 BOLTS AT 2 1/2" CENTERS
BOLT SIZE: 3/4"

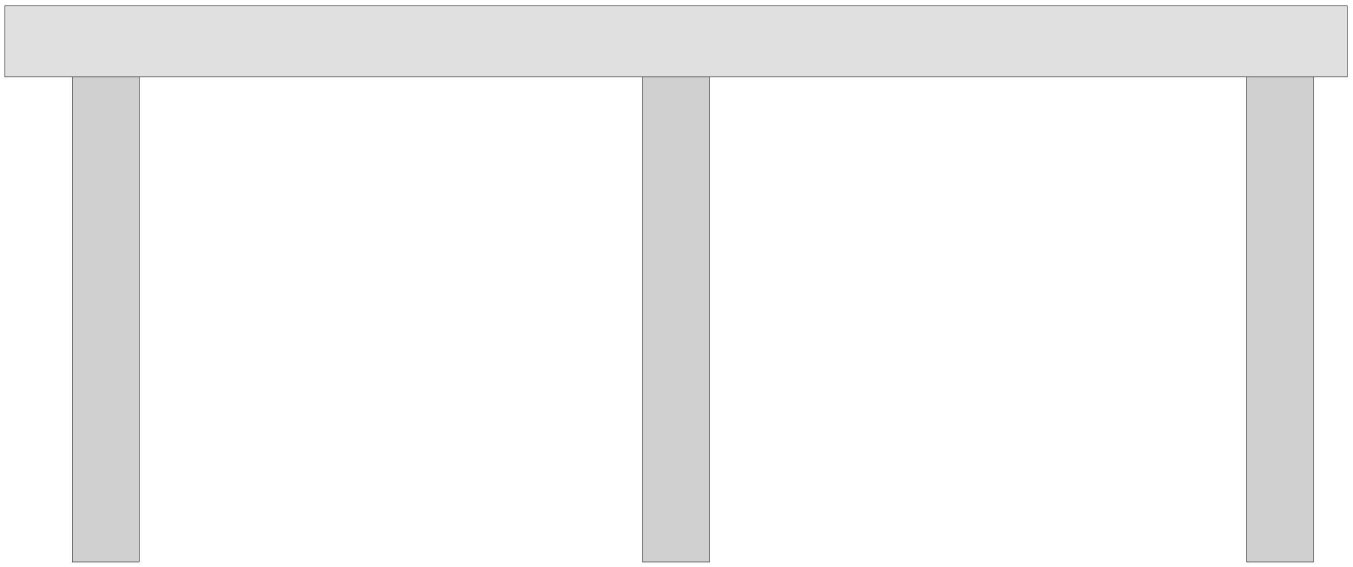
13'-0" FROM BENT 2 AND 13' FROM BENT. 3
3" FROM BOTTOM FLG. TO BOTT. OF DIAPH.

VERIFIED BY DEREK RICKUS ON 3/4/2014

Title	Description
DIAPH.	DIAPH. DETAILS

Bridge No:	Drawn By:	Date:	File Name:
540144	DEREK RICKUS	2/15/08	S0142000659

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.
20.000 ft.	.979 ft.	1.063 ft.	1.500 ft.	1.000 ft.	1.000 ft.	1.080 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	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	9 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

CHANGED CAP SIZE AND OVERHANGS

CHANGED PILE SPACINGS

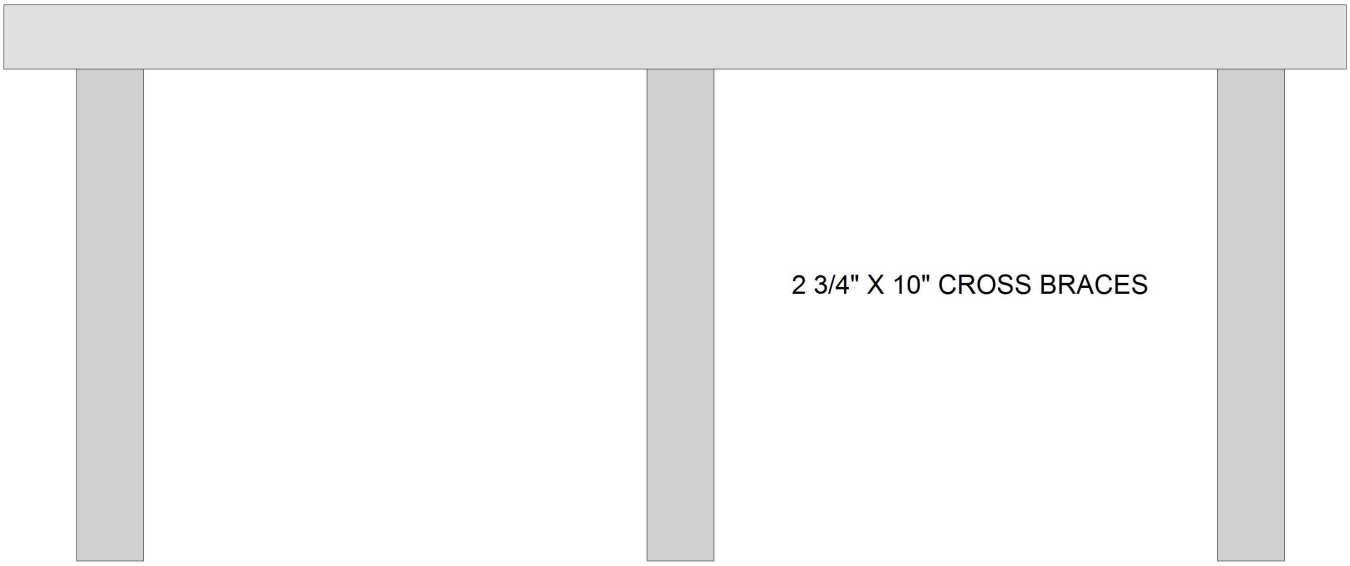
MODIFIED BY FER 3/2/2016

Bent/Abutment #: 1 Similar Bents:

Title	**Description**
END BENT 1	PILE DETAILS

Bridge No: 540144	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000660

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.
20.000 ft.	1.042 ft.	.958 ft.	1.583 ft.	1.75 ft.	1.000 ft.	1.500 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	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

CHANGED CAP SIZE AND OVERHANGS

MODIFIED BY FER 3/2/2016

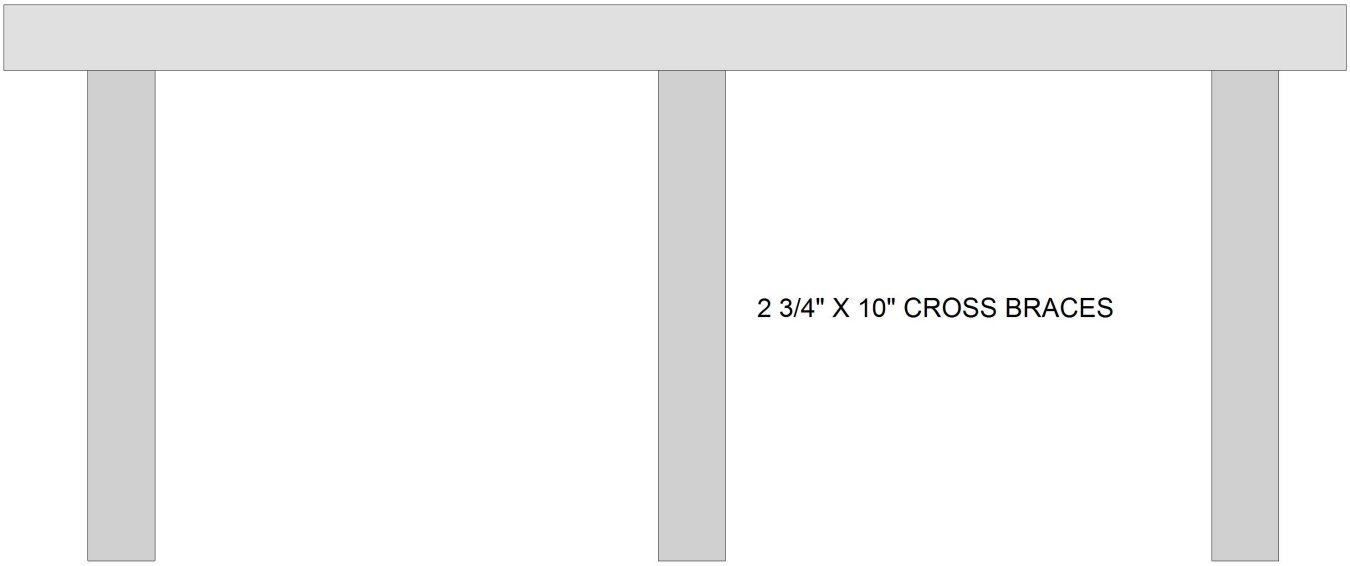
Bent/Abutment #: 1 Similar Bents:

Title
BENT 1

Description
PILE DETAILS

Bridge No: 540144 **Drawn By:** DEREK RICKUS **Date:** 2/15/08 **File Name:** S0142000661

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.
20.000 ft.	1.021 ft.	.979 ft.	1.750 ft.	1.500 ft.	1.000 ft.	.916 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	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.25 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

CHANGED CAP SIZE AND OVERHANGS
CHANGED PILE SPACINGS

MODIFIED BY FER 3/2/2016

Bent/Abutment #: 3 Similar Bents:

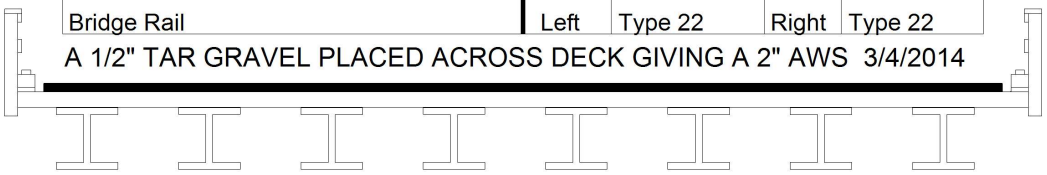
Title
BENT 3

Description
PILE DETAILS

Bridge No: 540144 **Drawn By:** DEREK RICKUS **Date:** 2/15/08 **File Name:** S0142000662

Bridge Inspection Field Sketch

Deck Width/Out to Out	20.167ft	Between Rails				19.833ft
Clear Roadway	19.167ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.667ft	Right	0.667ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.5ft	Right	0.5ft	
Top of Rail to Deck/Wearing Surface		Left	2.75ft	Right	2.75ft	
Bridge Rail		Left	Type 22	Right	Type 22	

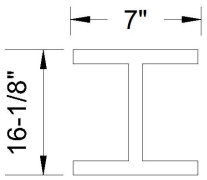


Measurements for Span #	3		
Deck Thickness	0.312	Left Overhang	0.916
Top of Rail to Bottom of Beam	5	Right Overhang	1

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.573ft	
2	Steel I Beam	2.573ft	
3	Steel I Beam	2.573ft	
4	Steel I Beam	2.573ft	
5	Steel I Beam	2.573ft	
6	Steel I Beam	2.573ft	
7	Steel I Beam	2.573ft	
8	Steel I Beam		

NO CURVED GIRDERS

SPAN 3 BEAMS



FLG. THICKNESS=1/2"
WEB THICKNESS= 5/8"

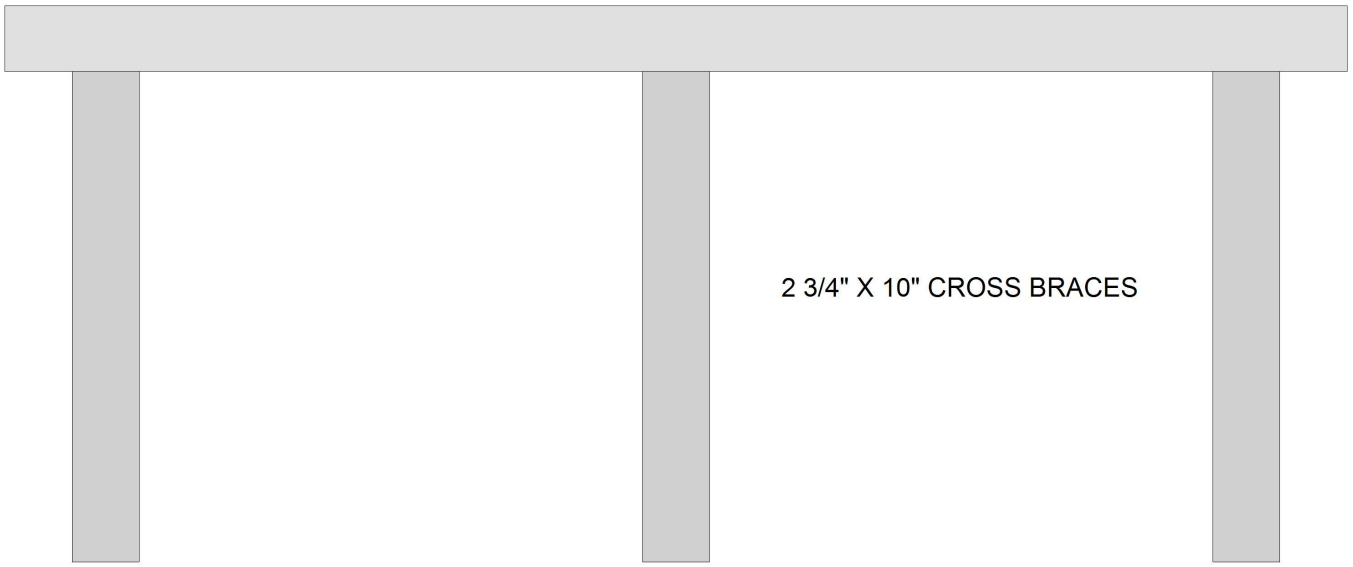
OVERHANGES CHANGED
GUARDRAIL WIDTHS ADDED
TOP OF RAIL TO BOTTOM OF BEAM CHANGED

MODIFIED BY FER 3/2/2016

Title	**Description**
SPAN #3	SUPERSTRUCTURE DETAILS

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
540144	DELVIN ADAMS	3/19/2012	S0146031632

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.
20.000 ft.	.979 ft.	.979 ft.	1.500 ft.	1.500 ft.	.833 ft.	1.083 ft.

Subcap Information — Material

Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information — Material

Length	Width	Height

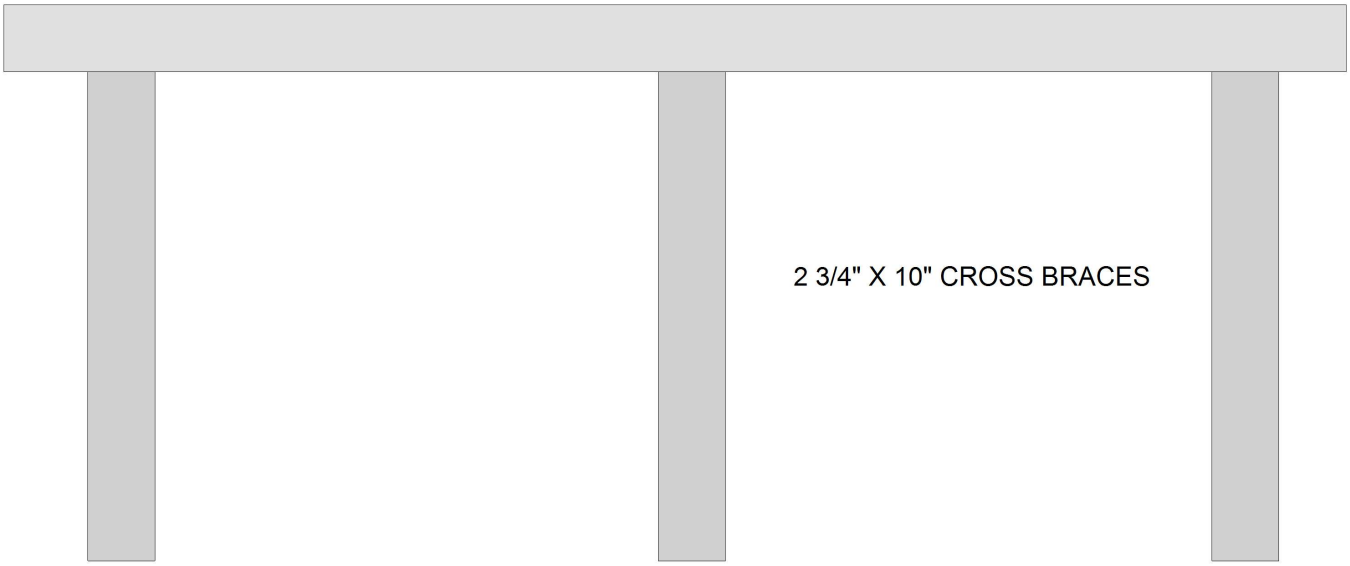
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
BENT 2	INTERIOR BENT 2

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
540144	FER	3/4/2016	S0446000205

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.
20.000 ft.	1.042 ft.	1 ft.	1.750 ft.	1.500 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

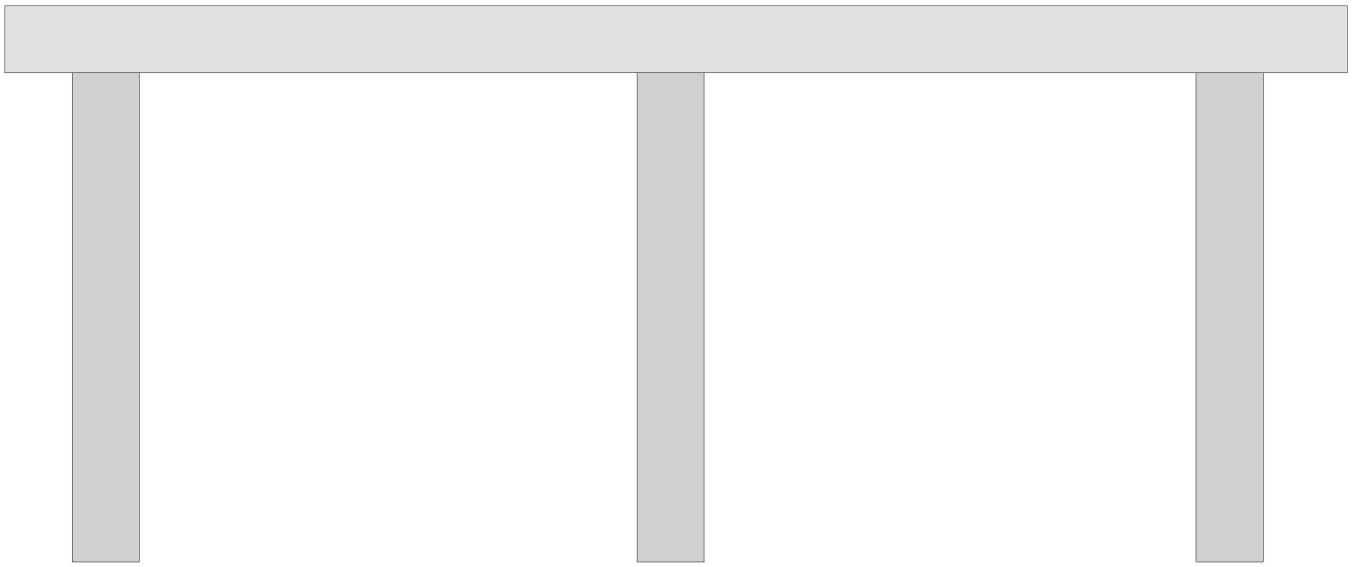
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8.5 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.25 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

Bent/Abutment #: 4 Similar Bents:

Title	**Description**
BENT 4	INTERIOR BENT 4

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
540144	FER	3/4/2016	S0446000206

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.
20.000 ft.	.958 ft.	1 ft.	1.500 ft.	1.750 ft.	1.000 ft.	.916 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	8.42 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	8.33 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber		1 ft.			Vertical	Yes	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
END BENT 2	END BENT 2

Bridge No: 540144	**Drawn By:** FER	**Date:** 3/4/2016	**File Name:** S0446000207

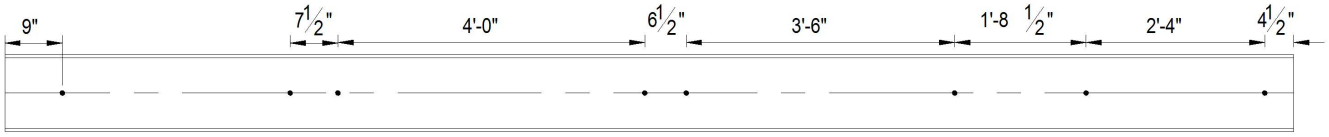
Bridge Inspection Field Sketch

SPAN 1

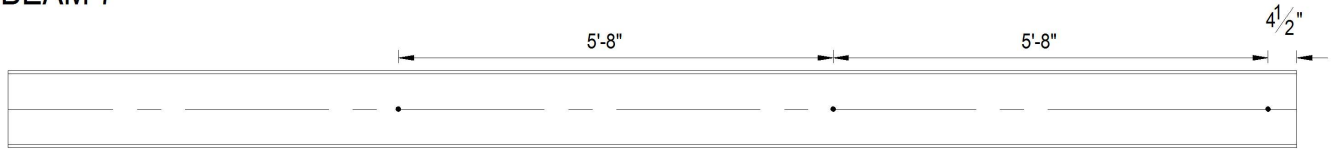
BENT 1
BEAM 4

ALL HOLES $\frac{3}{4}$"Ø 6" TO CENTERLINE OF WEB UNLESS OTHERWISE NOTED

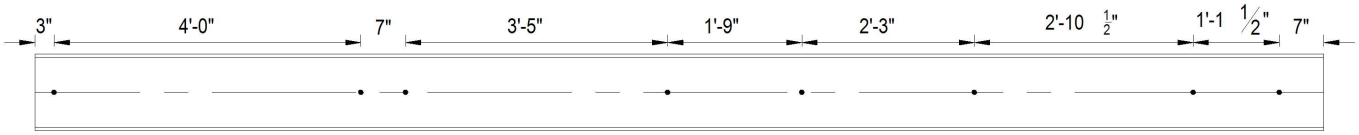
END BENT 1



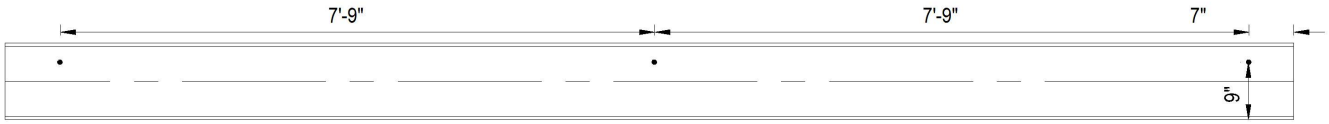
BEAM 7



BEAM 9



BEAM 10



Title	Description
SALVAGED BEAMS	HOLES IN BEAMS

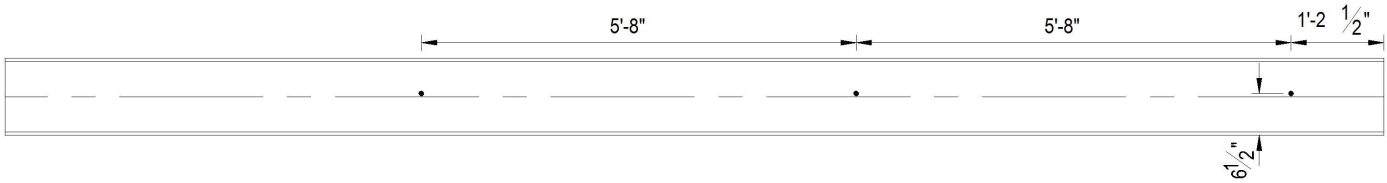
Bridge No:	Drawn By:	Date:	File Name:
540144	FER	3/4/2016	S0446000208

Bridge Inspection Field Sketch

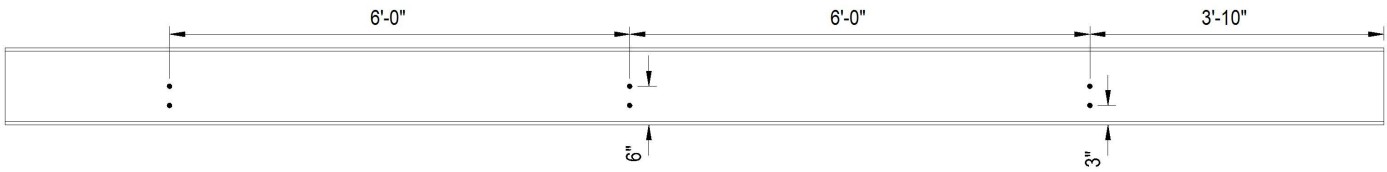
BENT 2
BEAM 4

SPAN 2

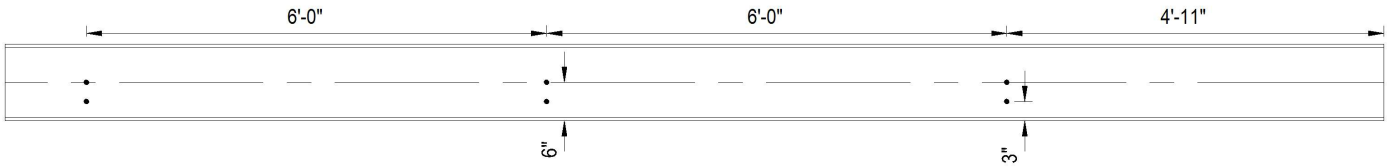
BENT 1



BEAM 9



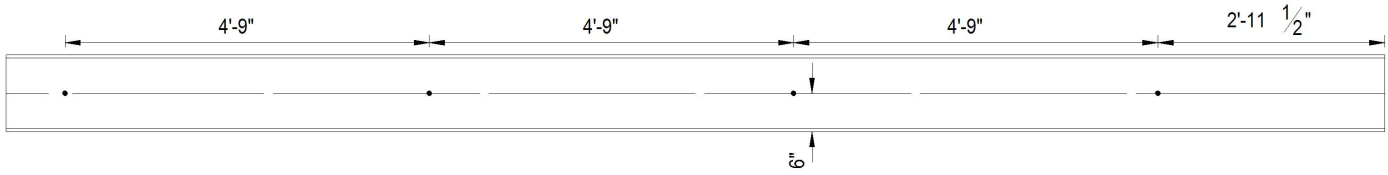
BEAM 10



BENT 4
BEAM 4

SPAN 4

BENT 3



ALL HOLES 3/4" DIAMETER

Title	Description
SALVAGED BEAMS SPAN 2 AND 4	SPAN 2 AND 4 LOOKING EAST

Bridge No:	Drawn By:	Date:	File Name:
540144	MEG	3/16/2016	S0446000209

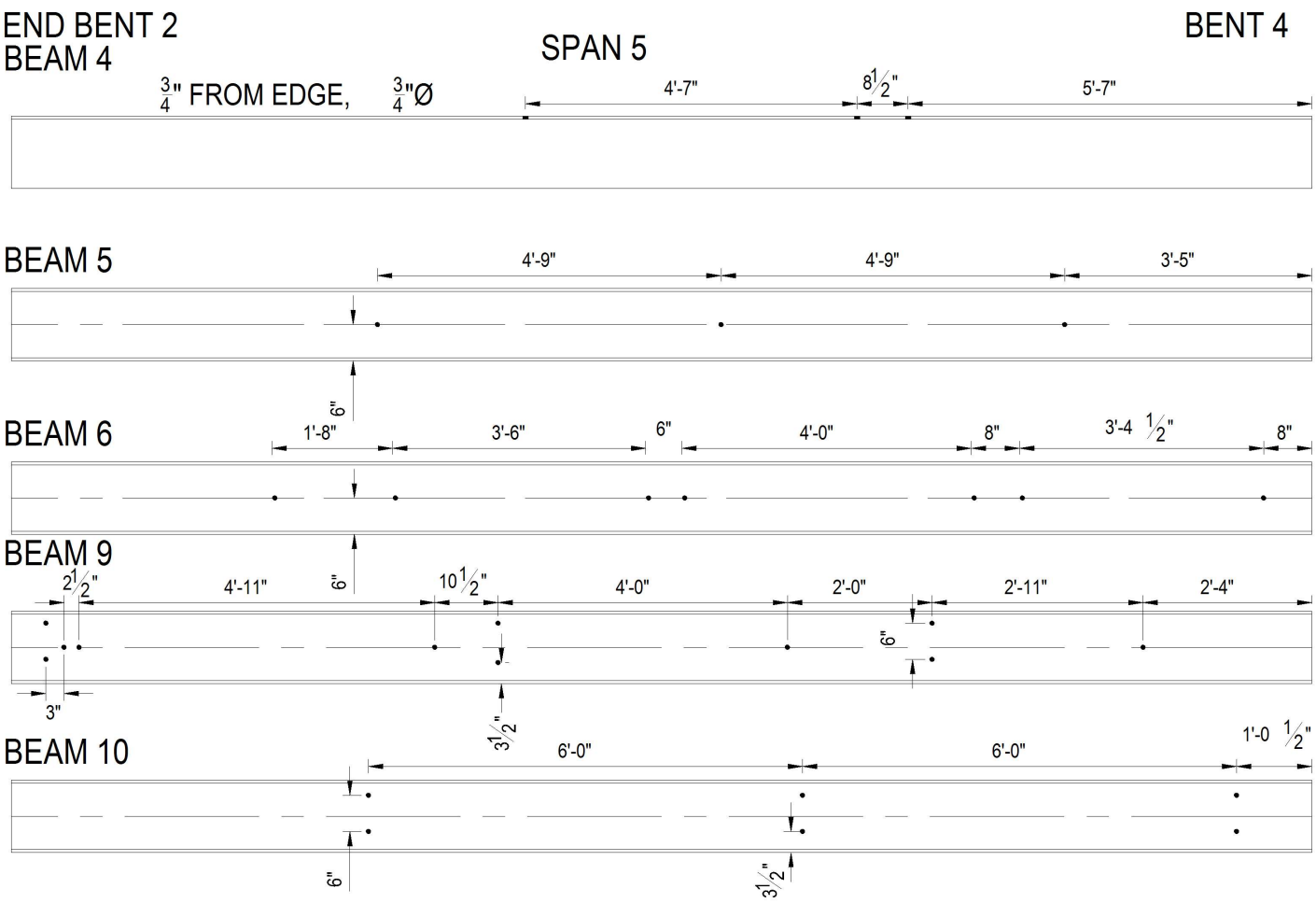
Bridge Inspection Field Sketch

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Title	Description
VOID	VOID

Bridge No:	Drawn By:	Date:	File Name:
540144	MEG	3/16/2016	S0446000210

Bridge Inspection Field Sketch



DIAMETER OF ALL HOLES 3/4"

Title	Description
SALVAGED BEAMS SPAN 5	LOOKING EAST

Bridge No:	Drawn By:	Date:	File Name:
540144	MEG	3/29/2016	S0446000212