NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE, TEMPORARY REPAIRS, CHANGES TO STRUCTURE DATA

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: LINCOLN **STRUCTURE NUMBER:** 540140 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1194 SR 1194 **MILE POST:**

LOCATION: 0.1 MI. N. JCT. SR1195 0.1 MILE NORTH OF JUNCTION WITH SR 1195

FEATURE INTERSECTED: HOWARDS CREEK

LATITUDE: 35° 30' 2.18" **LONGITUDE:** 81° 22' 14.51"

SUPERSTRUCTURE: PRECAST PRESTRESSED CONCRETE CHANNELS

SUBSTRUCTURE: END&INT.BENTS:PPC CAPS ON TIM.PILES,INT.BENTS CONC.ENCASED

1@30'-3", 1@30'-0", 1@30'-3"

SPANS: 1@30'3", 1@30'0", 1@30'3"

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

PRESENT CONDITION: Fair **INSPECTION DATE:** 03/14/2016

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: (4) DELINEATORS



LOOKING NORTH

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

INSPECTED BY	SIGNATURE	ASSISTED BY
T. GLENN ZEBLO	T. Glenn Zeblo	MICHAEL R. MEYER

Span Element Report

Structure Number: 540140 Inspection Date: 03/14/2016

Span Number 1 **Span Length** 30.25 Feet **Number of Slabs/Channels:** 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
15		Prestressed Concrete Top Flange	760	760	0	0	0	0	3326
109		Prestressed Concrete Open Girder/Bea	310	297	10	3	0	13	3306
216		Timber Abutment	34	16	0	1	17	18	3346
228		Timber Pile	5	5	0	0	0	0	3344
233		Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348
316		Other Bearings	20	14	5	1	0	6	3334
515	316	Steel Protective Coating	20	16	0	0	4	4	3342
330		Metal Bridge Railing	62	62	0	0	0	0	3322
515	330	Steel Protective Coating	62	62	0	0	0	0	3342
510		Wearing Surface	636	0	606	30	0	636	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** 30 Feet **Number of Slabs/Channels:** 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
15		Prestressed Concrete Top Flange	750	750	0	0	0	0	3326
109		Prestressed Concrete Open Girder/Bea	300	289	11	0	0	11	3306
228		Timber Pile	5	5	0	0	0	0	3344
233		Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348
316		Other Bearings	20	20	0	0	0	0	3334
515	316	Steel Protective Coating	20	20	0	0	0	0	3342
330		Metal Bridge Railing	60	41	1	18	0	19	3322
515	330	Steel Protective Coating	60	60	0	0	0	0	3342
510		Wearing Surface	720	0	678	42	0	720	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** 30.25 Feet **Number of Slabs/Channels:** 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
15		Prestressed Concrete Top Flange	760	760	0	0	0	0	3326
109		Prestressed Concrete Open Girder/Bea	310	307	3	0	0	3	3306
216		Timber Abutment	34	24	0	10	0	10	3346
228		Timber Pile	10	10	0	0	0	0	3344
233		Prestressed Concrete Pier Cap	54	54	0	0	0	0	3348
316		Other Bearings	20	14	6	0	0	6	3334
515	316	Steel Protective Coating	20	14	0	0	6	6	3342
330		Metal Bridge Railing	62	55	7	0	0	7	3322
515	330	Steel Protective Coating	62	62	0	0	0	0	3342
510		Wearing Surface	636	0	615	21	0	636	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: 540140

Inspection Date: 03/14/2016

Structure Number: 540140 Inspection Date: 03/14/2016

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
☑ Bridge Rail	1	330	Metal Bridge Railing	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	31	31	0	0	0	0	3342	
☑ Bridge Rail	2	330	Metal Bridge Railing	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	31	31	0	0	0	0	3342	
☑ Wearing Surfaces		510	Wearing Surface	636	0	606	30	0	636	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	1	109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	1	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	2	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	3	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	4	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	5	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	6	109	Prestressed Concrete Open Girder/Beam	31	28	3	0	0	3	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	7	109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	1	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	8	109	Prestressed Concrete Open Girder/Beam	31	27	1	3	0	4	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	9	109	Prestressed Concrete Open Girder/Beam	31	28	3	0	0	3	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	10	109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	1	3306	☐ Requested
☑ 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	0	1	0	0	1	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	

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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	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	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	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	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	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	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	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	7	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	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	8	316	Other Bearings	1	0	1	0	0	1	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 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	

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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
☑ Bridge Rail	1	330	Metal Bridge Railing	30	11	1	18	0	19	3322	☐ Requested
Protective System		515	Steel Protective Coating	30	30	0	0	0	0	3342	
☑ Bridge Rail	2	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	30	30	0	0	0	0	3342	
☑ Wearing Surfaces	0	510	Wearing Surface	720	0	678	42	0	720	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	1	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	2	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	3	109	Prestressed Concrete Open Girder/Beam	30	28	2	0	0	2	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	4	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	5	109	Prestressed Concrete Open Girder/Beam	30	27	3	0	0	3	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	6	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	7	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	8	109	Prestressed Concrete Open Girder/Beam	30	26	4	0	0	4	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	9	109	Prestressed Concrete Open Girder/Beam	30	28	2	0	0	2	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	75	75	0	0	0	0	3326	☐ Requested
☑ Beam	10	109	Prestressed Concrete Open Girder/Beam	30	30	0	0	0	0	3306	☐ Requested
☑ 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	

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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
☑ 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
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 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
☑ Bridge Rail	1	330	Metal Bridge Railing	31	24	7	0	0	7	3322	☐ Requested
Protective System		515	Steel Protective Coating	31	31	0	0	0	0	3342	
☑ Bridge Rail	2	330	Metal Bridge Railing	31	31	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	31	31	0	0	0	0	3342	
☑ Wearing Surfaces		510	Wearing Surface	636	0	615	21	0	636	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	1	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	2	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	3	109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	1	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	4	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	5	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	6	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	7	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	8	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	9	109	Prestressed Concrete Open Girder/Beam	31	31	0	0	0	0	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	76	76	0	0	0	0	3326	☐ Requested
☑ Beam	10	109	Prestressed Concrete Open Girder/Beam	31	29	2	0	0	2	3306	☐ Requested
☑ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	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	0	1	1	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
☑ 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	0	1	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	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	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	0	1	1	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	0	1	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	0	1	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	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: 540140 Inspection Date: 03/14/2016

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	

Superstructure Element Defect Descriptions

Structure Number: 540140 Inspection Date: 03/14/2016

Span Number 1

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 31 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 31 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

Span 1 **Wearing Surfaces** **Component Name:** Asphalt Wearing Surface

Element: 510 **Name** Wearing Surface **Qty:** 636 **Lvl 2:** 606 **Lvl 3** 30 **Lvl 4** 0 **Maint. Qty** 636

Defect Description:

2' OF ASPHALT WEARING SURFACE MISSING ALONG RIGHT CURB.

1' OF ASPHALT WEARING SURFACE MISSING ALONG LEFT CURB.

14' X 3' AREA OF ASPHALT PATCH, ALONG LEFT FOG LINE, BEGINNING ' FROM BENT 1.

21' CRACK UP TO 1/4" IN ASPHALT WEARING SURFACE, OVER END BENT 1.

6' LONGITUDINAL REFLECTIVE CRACK UP TO 1/8", BEGINNING 9' FROM END BENT 1, 5' FROM RIGHT CURB.

ASPHALT WEARING SURFACE IS WORN WITH EXPOSED AGGREGATE.

Span 1 **Beam** 1 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

5" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.

Span 1 **Beam** 6 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 3 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

2" DIAMETER X 1/2" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, 11' FROM END BENT 1.

1" DIAMETER X 1/4" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, 8' FROM BENT 1.

3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.

Span 1 **Beam** 7 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

4" X 1" X 1" SPALL WITH EXPOSED BEARING ASSEMBLY, EAST FACE OF LEG 1, AT END BENT 1.

Span 1 **Beam** 8 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 1 **Lvl 3** 3 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

32" X 1/8" HORIZONTAL CRACK COMPLETELY THROUGH LEG 2, 1-1/2" ABOVE BOTTOM OF THE LEG, 12' FROM END BENT 1.

5" X 3" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, AT END BENT 1.

Span 1 **Beam** 9 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 3 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

6" X 2" X UP TO 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.

4" X 4" X UP TO 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 1.

4" X 3" X UP TO 1" SPALL WITH EXPOSED REINFORICING, WEST FACE OF LEG 1, 2' FROM BENT 1.

Span 1 **Beam** 10 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

8" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT END BENT 1.

Span 1 **Bearing Device** 1 **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:

BEARING IS CORRODED.

Span 1 **Bearing Device** 2 **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:

BEARING IS CORRODED.

Span 1 **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:

BEARING IS CORRODED.

Span 1 **Bearing Device** 6 **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:

BEARING IS CORRODED.

Span 1 **Bearing Device** 7 **Component Name:** Other Bearing

Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

CORROSION WITH RUST SCALE THROUGHOUT.

Span 1 **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:

BEARING IS CORRODED.

Span Number 2

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 30 **Lvl 2:** 1 **Lvl 3** 18 **Lvl 4** 0 **Maint. Qty** 19

Defect Description:

18' OF IMPACT DAMAGE ALONG TOP OF RAIL, BEGINNING AT RAIL POST 3, RAIL IS DISCONNECTED FROM RAIL POST 3 THROUGH 6.

3" DIAMETER X 1/2" SPALL, TOP OF CURB, AT RAIL POST 6.

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 30 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

Span 2 **Wearing Surfaces** 0 **Component Name:** Asphalt Wearing Surface

Element: 510 **Name** Wearing Surface **Qty:** 720 **Lvl 2:** 678 **Lvl 3** 42 **Lvl 4** 0 **Maint. Qty** 720

Defect Description:

21' CRACK UP TO 1/2" IN ASPHALT WEARING SURFACE, OVER BENT 1.

ASPHALT WEARING SURFACE IS WORN WITH EXPOSED AGGREGATE.

21' CRACK UP TO 1/2" IN ASPHALT WEARING SURFACE, OVER END BENT 2.

Span 2 **Beam** 3 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 30 **Lvl 2:** 2 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

6" X 2" X 3/4" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.

2" X 3" X 1/2" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 2.

Span 2 **Beam** 5 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 30 **Lvl 2:** 3 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 3

Defect Description:

3" X 5" X 1/2" SPALL, WEST FACE OF LEG 1, AT BENT 1.

4" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 1.

3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 2.

Span 2 **Beam** 8 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 30 **Lvl 2:** 4 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

4" X 2" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.

6" X 2" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 1.

3" DIAMETER X 1/2" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, AT BENT 1.

3" X 3" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 2.

Span 2 **Beam** 9 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 30 **Lvl 2:** 2 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

3" X 4" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1 AT BENT 1.

3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 2.

Span Number 3

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 31 **Lvl 2:** 7 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 7

Defect Description:

7' OF IMPACT DAMAGE ALONG TOP OF RAIL, BEGINNING AT RAIL POST 3, RAIL IS DISCONNECTED FROM RAIL POST 1.

3" DIAMETER X 1/2" SPALL, TOP OF CURB, BETWEEN RAIL POSTS 1 AND 2

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

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

Element: 330 **Name** Metal Bridge Railing **Qty:** 31 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.

Span 3 **Wearing Surfaces** **Component Name:** Asphalt Wearing Surface

Element: 510 **Name** Wearing Surface **Qty:** 636 **Lvl 2:** 615 **Lvl 3** 21 **Lvl 4** 0 **Maint. Qty** 636

Defect Description:

21' CRACK UP TO 1" IN ASPHALT WEARING SURFACE, OVER BENT 2.

ASPHALT WEARING SURFACE IS WORN WITH EXPOSED AGGREGATE.

Span 3 **Beam** 3 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 2.

Span 3 **Beam** 10 **Component Name:** Prestressed Concrete Channel

Element: 109 **Name** Prestressed Concrete Open Gir **Qty:** 31 **Lvl 2:** 2 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

4" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 2.

4" DIAMETER X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, 4' FROM BENT 2.

Span 3 **Bearing Device** 1 **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:

BEARING IS CORRODED.

Span 3 **Bearing Device** 2 **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:

BEARING IS CORRODED.
BEARING IS CORRODED.

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:

BEARING IS CORRODED.

Span 3 **Bearing Device** 6 **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:

BEARING IS CORRODED.

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:

BEARING IS CORRODED.

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:

BEARING IS CORRODED.

Substructure Detailed Element Quantites

Structure Number: 540140 Inspection Date: 03/14/2016

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	34	16	0	1	17	18	3346	☑ Requested
☑ Caps	1	233	Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348	☐ 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

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	233	Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348	☐ 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

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	233	Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348	☐ 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

Structure Number: 540140 Inspection Date: 03/14/2016

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	34	24	0	10	0	10	3346	☐ Requested
☑ Caps	1	233	Prestressed Concrete Pier Cap	27	27	0	0	0	0	3348	☐ 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

Substructure Element Defect Descriptions

Structure Number: 540140 Inspection Date: 03/14/2016

End Bent 1

End Bent 1 **Row** 1 **Abutments** 1

Element: 216 **Name** Timber Abutment **Qty:** 34 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 17 **Maint. Qty** 18

Defect Description:

TEMPORARY REPAIR TO TOP 4 BOARDS, OUTSIDE CHANNEL 1.

3' X 4" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1. (PM)

3' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 10TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1. (PM)

11' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 1, 2, AND 3 BELOW CAP, BETWEEN PILES 1 THROUGH 3. (PM)

TEMPORARY REPAIR TO BOARDS BETWEEN PILES 3 THROUGH 5.

TIMBER BULKHEAD PILE 1 IS ROTATING 15" OUT IN 9', AT CORNER WITH SOUTHWEST WINGWALL.

6" HIGH X 2" WIDE X 1 1/2" DEEP DECAY ON THE NORTH FACE NEAR THE GROUND WITH 1/2" OUTER SHELL LOSS AND SOFTNESS FOR 1' HIGH FOR FULL CIRCUMFERENCE, AT PILE 1.

Bent 1 **Row** 1 **Caps** 1

Element: 233 **Name** Prestressed Concrete Pier Cap **Qty:** 27 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

WATER STAINING BELOW CHANNEL LEGS, BOTH FACES.

End Bent 2 **Row** 1 **Abutments** 1

Element: 216 **Name** Timber Abutment **Qty:** 34 **Lvl 2:** 0 **Lvl 3** 10 **Lvl 4** 0 **Maint. Qty** 10

Defect Description:

3' HIGH X 10' WIDE X 50' LONG SCOUR AT END BENT 2.

National Bridge and NC Inspection Items

Structure Number: 540140 **Inspection Date:** 03/14/2016

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**G**	**0**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C	**F**		
Wingwall	G, F, P, or C	**P**	**38**	**3350**
Field Scour Evaluation		**L**		
Drift	G, F, P, or C	**F**	**6**	**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	**12**		

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	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 540140 **Inspection Date:** 03/14/2016

Item	Channel and Channel Protection - Item 61	**Grade**	6	**Maint Code**		**Qty.**	0
Details	STREAM FLOWS THROUGH FLOOD GATE THEN TOWARDS BENT. 2 AT UPSTREAM END.						

Item	Waterway Adequacy - Item 71	**Grade**	6	**Maint Code**		**Qty.**	0
Details	DRIFT FOUND ON TOP OF CAP, INDICATES POSSIBLE OVERTOPPING						

Item	Approach Roadway Alignment - Item 72	**Grade**	6	**Maint Code**		**Qty.**	0
Details	SHARP CURVE AT SOUTH APPROACH.						

Item	Drift	**Grade**	F	**Maint Code**	3366	**Qty.**	6
Details	5 CUBIC YARDS OF DRIFT AT BENT 1, BETWEEN PILES 2 AND 3, AND PILES 4 AND 5.						
	5 CUBIC YARDS OF DRIFT, AT BENT 2 SILL, AT RANDOM.						

Item	Scour	**Grade**	F	**Maint Code**		**Qty.**	0
Details	2'-4" OF EXPOSED SILL AT UPSTREAM END, BENT 1, BEGINNING TO SCOUR BEHIND SILL, UP TO 4'.						

Item	Wingwalls	**Grade**	P	**Maint Code**	3350	**Qty.**	38

Details

SOUTHWEST WINGWALL

8' X 8" AREA OF DECAY, 4TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL.

5' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL. (PM)

2' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 8,9, & 10 FROM BOTTOM, SOUTHWEST WINGWALL. (PM)

TEMPORARY REPAIR TO THE TOP 4 BOARDS OF THE SOUTHWEST WINGWALL.

SOUTHWEST WINGWALL POST 2 IS DECAYED. (PM)

2' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 7, 8, & 9, FROM BOTTOM, SOUTHWEST WINGWALL, AT CORNER WITH BACKWALL. (PM)

11" OUT IN 10' OF ROTATION OF SOUTHWEST WINGWALL, AT CORNER WITH ABUTMENT 1.

4' X 8" AREA OF DECAY, 3' FRONT TOP, WITH SOIL SPILLING THROUGH, AT SOUTHWEST WINGWALL. (PM)

3' X 8' AREA OF DECAY WITH SOIL SPILLING, 3' FROM TOP, AT NORTHEAST WINGWALL. (PM)



Span 2 Left Bridge Rail: 18' OF IMPACT DAMAGE ALONG TOP OF RAIL, BEGINNING AT RAIL POST 3, RAIL IS DISCONNECTED FROM RAIL POST 3 THROUGH 6.



Span 2 Left Bridge Rail: 18' OF IMPACT DAMAGE ALONG TOP OF RAIL, BEGINNING AT RAIL POST 3, RAIL IS DISCONNECTED FROM RAIL POST 3 THROUGH 6.



Span 3 Left Bridge Rail: 7' OF IMPACT DAMAGE ALONG TOP OF RAIL, BEGINNING AT RAIL POST 3, RAIL IS DISCONNECTED FROM RAIL POST 1.



Span 3 Left Curb : 3" DIAMETER X 1/2" SPALL, TOP OF CURB, BETWEEN RAIL POSTS 1 AND 2



Span 2 Left Curb : 3" DIAMETER X 1/2" SPALL, TOP OF CURB, AT RAIL POST 6.



Span 3 Right Bridge Rail: CURBS ARE WEATHERED WITH EXPOSED AGGREGATE THROUGHOUT.



Span 1 Wearing Surface: 2' OF ASPHALT WEARING SURFACE MISSING ALONG RIGHT CURB.



Span 1 Wearing Surface: 1' OF ASPHALT WEARING SURFACE MISSING ALONG LEFT CURB.



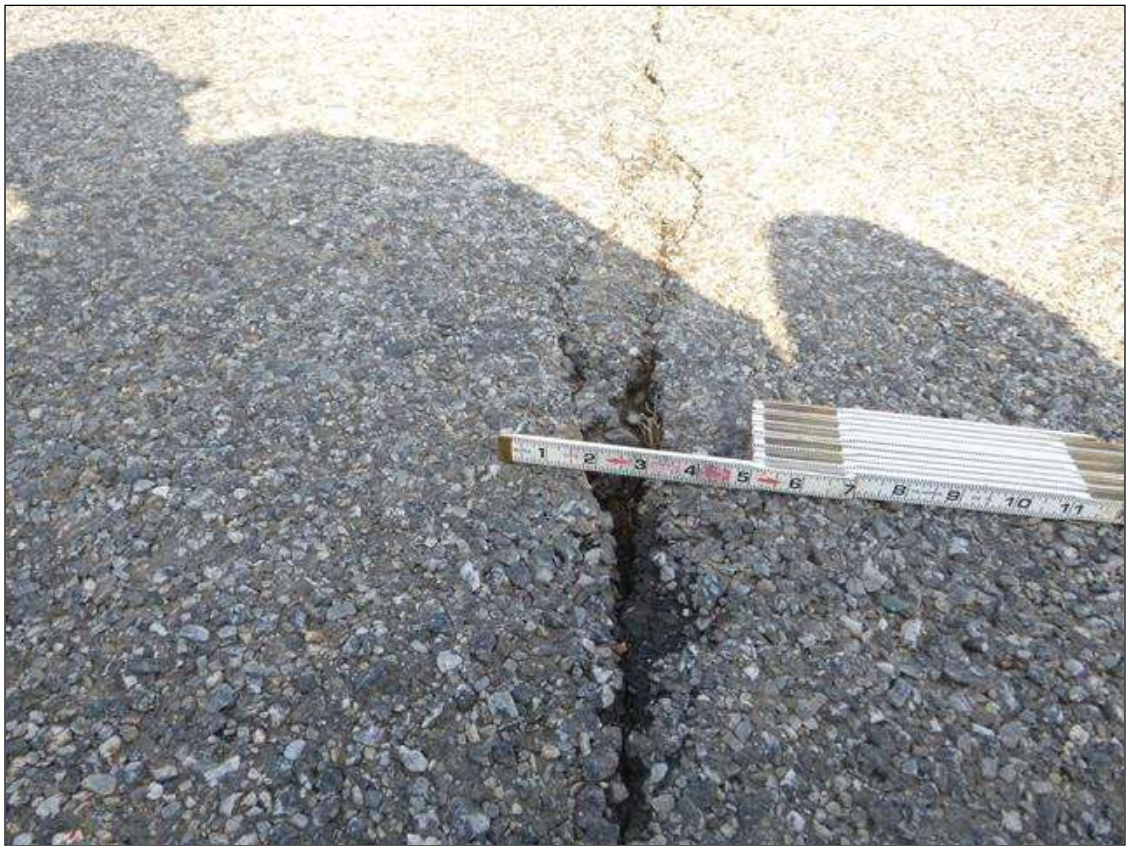
Span 1 Wearing Surface: 14' X 3' AREA OF ASPHALT PATCH, ALONG LEFT FOG LINE, BEGINNING ' FROM BENT 1.



Span 1 Wearing Surface: 6' LONGITUDINAL REFLECTIVE CRACK UP TO 1/8", BEGINNING 9' FROM END BENT 1, 5' FROM RIGHT CURB.



Span 2 Wearing Surface: ASPHALT WEARING SURFACE IS WORN WITH EXPOSED AGGREGATE.



Span 3 Wearing Surface: 21' CRACK UP TO 1" IN ASPHALT WEARING SURFACE, OVER BENT 2.



Wingwalls : 8' X 8" AREA OF DECAY, 4TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL.



Wingwalls : 5' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL. (PM)



Wingwalls : 2' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 8,9, & 10 FROM BOTTOM, SOUTHWEST WINGWALL. (PM)



Wingwalls : TEMPORARY REPAIR TO THE TOP 4 BOARDS OF THE SOUTHWEST WINGWALL.



Wingwalls : SOUTHWEST WINGWALL POST 2 IS DECAYED. (PM)



Wingwalls : 2' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 7, 8, & 9, FROM BOTTOM, SOUTHWEST WINGWALL, AT CORNER WITH BACKWALL. (PM)



Wingwalls : 11" OUT IN 10' OF ROTATION OF SOUTHWEST WINGWALL, AT CORNER WITH ABUTMENT 1.



End Bent 1 Abutment/Backwall : TEMPORARY REPAIR TO TOP 4 BOARDS, OUTSIDE CHANNEL 1.



End Bent 1 Abutment/Backwall : 3' X 4" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1. (PM)



End Bent 1 Abutment/Backwall : 3' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 10TH BOARD FROM THE BOTTOM, OUTSIDE PILES 1. (PM)



End Bent 1 Abutment/Backwall : 11' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 1, 2, AND 3 BELOW CAP, BETWEEN PILES 1 THROUGH 3. (PM)



End Bent 1 Abutment/Backwall : TEMPORARY REPAIR TO BOARDS BETWEEN PILES 3 THROUGH 5.



End Bent 1 Abutment/Backwall : TIMBER BULKHEAD PILE 1 IS ROTATING 15" OUT IN 9', AT CORNER WITH SOUTHWEST WINGWALL.



Span 1 Channel/Slab 6: 2" DIAMETER X 1/2" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, 11' FROM END BENT 1.



Span 1 Channel/Slab 6: 1" DIAMETER X 1/4" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, 8' FROM BENT 1.



Span 1 Channel/Slab 8: 32" X 1/8" LONGITUDINAL CRACK COMPLETELY THROUGH LEG 2, 1-1/2" ABOVE BOTTOM OF THE LEG, 12' FROM END BENT 1.



Span 1 Beam 7 Far Bearing : CORROSION WITH RUST SCALE THROUGHOUT.



Span 1 Channel/Slab 9: 6" X 2" X UP TO 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.



Span 1 Channel/Slab 9: 4" X 4" X UP TO 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 1.



Span 1 Channel/Slab 9: 4" X 3" X UP TO 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, 2' FROM BENT 1.



Span 1 Channel/Slab 6: 3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.



Span 1 Channel/Slab 1: 5" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.



Span 1 Channel/Slab 10: 8" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT END BENT 1.



Span 1 Channel/Slab 8: 5" X 3" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, AT END BENT 1.



Span 1 Channel/Slab 7: 4" X 1" X 1" SPALL WITH EXPOSED BEARING ASSEMBLY, EAST FACE OF LEG 1, AT END BENT 1.



Drift : 5 CUBIC YARDS OF DRIFT AT BENT 1, BETWEEN PILES 2 AND 3, AND PILES 4 AND 5.



Span 2 Channel/Slab 3: 6" X 2" X 3/4" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.



Span 2 Channel/Slab 5: 3" X 5" X 1/2" SPALL, WEST FACE OF LEG 1, AT BENT 1.



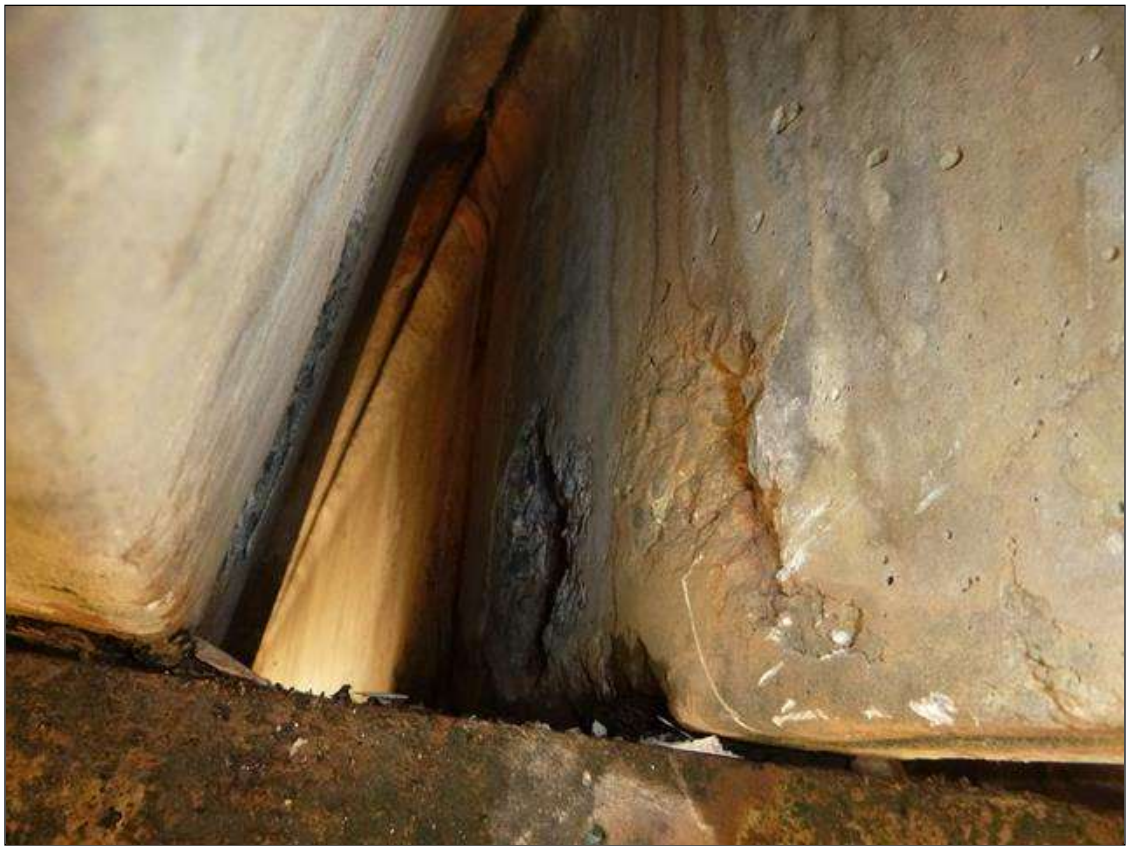
Span 2 Channel/Slab 5: 4" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 1.



Span 2 Channel/Slab 8: 4" X 2" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 1.



Span 2 Channel/Slab 8: 6" X 2" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 1.



Span 2 Channel/Slab 8: 3" DIAMETER X 1/2" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 2, AT BENT 1.



Wingwalls : 4' X 8" AREA OF DECAY, 3' FRONT TOP, WITH SOIL SPILLING THROUGH, AT SOUTHWEST WINGWALL. (PM)



Span 2 Channel/Slab 9: 3" X 4" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1 AT BENT 1.



Span 3 Channel/Slab 3: 3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 2.



Span 3 Channel/Slab 10: 4" X 1" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 2, AT BENT 2.



Span 2 Channel/Slab 3: 2" X 3" X 1/2" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 2.



Span 2 Channel/Slab 5: 3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 2.



Span 2 Channel/Slab 8: 3" X 3" X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, AT BENT 2.



Span 2 Channel/Slab 9: 3" X 1" X 1" SPALL WITH EXPOSED REINFORCING, EAST FACE OF LEG 1, AT BENT 2.



5 CUBIC YARDS OF DRIFT, AT BENT 2 SILL, AT RANDOM.



Span 3 Channel/Slab 10: 4" DIAMETER X 1" SPALL WITH EXPOSED REINFORCING, WEST FACE OF LEG 1, 4' FROM BENT 2.

Structure: 540140 County: LINCOLN Date: 03/14/2016 Condition Photos



Wingwalls : 3' X 8' AREA OF DECAY WITH SOIL SPILLING, 3' FROM TOP, AT NORTHEAST WINGWALL. (PM)



LOOKING NORTH



SOUTH APPROACH, LOOKING NORTH



ASPHALT WEARING SURFACE, SPAN 1, LOOKING NORTH



WEST BRIDGE RAIL



EAST BRIDGE RAIL



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



CRACK IN ASPHALT WEARING SURFACE OVER BENT 1, LOOKING WEST



CRACK IN ASPHALT WEARING SURFACE OVER BENT 2, LOOKING WEST



CRACK IN ASPHALT WEARING SURFACE OVER END BENT 2, LOOKING WEST



UPSTREAM VIEW FROM BRIDGE DECK, LOOKING WEST



DOWNSTREAM VIEW FROM BRIDGE DECK, LOOKING EAST



NORTH APPROACH, LOOKING SOUTH



DRAINAGE SYSTEM ON STRUCTURE



NORTHWEST WINGWALL



NORTHEAST WINGWALL



SOUTHEAST WINGWALL



SOUTHWEST WINGWALL



END BENT 1 ELEVATION, LOOKING SOUTH



BENT 1 ELEVATION, LOOKING NORTH



END BENT 1 SLOPE PROTECTION, LOOKING SOUTH



BENT 2 ELEVATION, LOOKING NORTH



SUPERSTRUCTURE UNDERSIDE, SPAN 2, LOOKING NORTH



END DIAPHRAGM, BENT 1, SPAN 1, CHANNEL 3, LOOKING NORTH



BEARING ASSEMBLY, END BENT 1, CHANNEL 4, LOOKING SOUTH



END BENT 2 ELEVATION, LOOKING NORTH



END BENT 2 SLOPE PROTECTION, LOOKING NORTH



DOWNSTREAM PROFILE, LOOKING WEST



UPSTREAM PROFILE, LOOKING EAST



SCOUR: 2'-4" OF EXPOSED SILL AT UPSTREAM END, BENT 1, BEGINNING TO SCOUR BEHIND SILL, UP TO 4'.

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 07/12/2016

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **540140**
(8) STRUCTURE NUMBER(FEDERAL) 000000001090140
(5) INVENTORY ROUTE (ON/UNDER) - ON 31011940
(2) STATE HIGHWAY DEPARTMENT DISTRICT 3
(3) COUNTY CODE 109 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - HOWARDS CREEK
(7) FACILITY CARRIED SR1194
(9) LOCATION 0.1 MI. N. JCT. SR1195
(11)MILEPOINT 0
(16)LAT 35° 30' 2.18" (17)LONG 81° 22' 14.51"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Prestressed Concrete
TYPE - Channel Beam CODE 522
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 3
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 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 1962
(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 380
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 2 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 29 FT
(49) STRUCTURE LENGTH 91 FT
(50)CURB OR SIDEWALK: LEFT .4165 FT RIGHT .4165 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 24 FT
(52) DECK WIDTH OUT TO OUT 25.833 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 24 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 = 29.68
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 - Temporary Structure/Conditions T
(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 7
(59) SUPERSTRUCTURE 6
(60) SUBSTRUCTURE 5
(61) CHANNEL & CHANNEL PROTECTION 6
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD Unknown 0
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-1 1
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-1 1
(70) BRIDGE POSTING - Posting Required 4
(41) STRUCTURE OPEN, POSTED ,OR CLOSED P
DESCRIPTION - Posted for Load

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 3
(68) DECK GEOMETRY 5
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 6
(72) APPROACH ROADWAY ALIGNMENT 6
(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 760 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 03/14/2016
(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: 07/12/2016

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
LINCOLN	12	3	540140	91 FEET

ROUTE CARRIED : SR1194

FEATURE INTERSECTED : HOWARDS CREEK

LOCATED : 0.1 MI. N. JCT. SR1195

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :			
09	NFA	NFA	380	2013	LT	233	RT	233

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

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

NAVIGATION :					HT. CRN. TO BED :		WATER DEPTH :	
VC	0	FT	HC	0	FT	15 FT	2	FT

SUPERSTRUCTURE : PRECAST PRESTRESSED CONCRETE CHANNELS

SUBSTRUCTURE : END&INT.BENTS:PPC CAPS ON TIM.PILES,INT.BENTS CONC.ENCASED

SPANS : 1@30'3", 1@30'0", 1@30'3"

BEAMS OR GIRDERS : 10 SECTIONS OF PRECAST PRESTRESSED CONCRETE CHANNELS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPC.CH.,3.5"AWS		25.833 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
24 FT	24.833 FT	LT	.4165 FT	RT	.4165 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int.ch	SV	41	TTST	LGW	DATE 07/11/2016

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 540140 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
3346	Repair / Maintain Timber Wings & Blkhds	SF	22	END BENT 1 ABUTMENT/BACKWALL : 11' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 1, 2, AND 3 BELOW CAP, BETWEEN PILES 1 THROUGH 3.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	END BENT 1 ABUTMENT/BACKWALL : 3' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 10TH BOARD FROM THE BOTTOM, OUTSIDE CAP PILE 1.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	END BENT 1 ABUTMENT/BACKWALL : 3' X 4" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	WINGWALLS : 2' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 7, 8, & 9, FROM BOTTOM, SOUTHWEST WINGWALL, AT CORNER WITH BACKWALL.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	6	WINGWALLS : SOUTHWEST WINGWALL POST 2 IS DECAYED.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	2	WINGWALLS : 2' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 8,9, & 10 FROM BOTTOM, SOUTHWEST WINGWALL.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	5	WINGWALLS : 5' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	3	WINGWALLS : 3' X 8" AREA OF DECAY WITH SOIL SPILLING, 3RD BOARD FROM TOP, AT NORTHEAST WINGWALL.	
3346	Repair / Maintain Timber Wings & Blkhds	SF	4	WINGWALLS : 4' X 8" AREA OF DECAY, 3RD BOARD FROM TOP, WITH SOIL SPILLING THROUGH, AT SOUTHWEST WINGWALL.	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540140 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	22 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER BULKHEAD

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

END BENT 1 ABUTMENT/BACKWALL : 11' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 1, 2, AND 3 BELOW CAP, BETWEEN PILES 1 THROUGH 3.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	3 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER BULKHEAD

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

END BENT 1 ABUTMENT/BACKWALL : 3' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 10TH BOARD FROM THE BOTTOM, OUTSIDE CAP PILE 1.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540140 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	3 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER BULKHEAD

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

END BENT 1 ABUTMENT/BACKWALL : 3' X 4" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	4 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER WINGWALL BOARDS

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

WINGWALLS : 2' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 7, 8, & 9, FROM BOTTOM, SOUTHWEST WINGWALL, AT CORNER WITH BACKWALL.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540140 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	6 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER WINGWALL POST

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

WINGWALLS : SOUTHWEST WINGWALL POST 2 IS DECAYED.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	2 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER WINGWALL BOARDS

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

WINGWALLS : 2' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 8,9, & 10 FROM BOTTOM, SOUTHWEST WINGWALL.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540140 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	5 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER WINGWALL BOARD

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHEL R. MEYER

Details

WINGWALLS : 5' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL.

MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	3 SF

Location:		
Abutment Substructure	Bent/Span No. 3	TIMBER WINGWALL

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

WINGWALLS : 3' X 8" AREA OF DECAY WITH SOIL SPILLING, 3RD BOARD FROM TOP, AT NORTHEAST WINGWALL.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540140 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	4 SF

Location:		
Abutment Substructure	Bent/Span No. 1	TIMBER WINGWALL

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/17/2016	T. GLENN ZEBLO	MICHAEL R. MEYER

Details

WINGWALLS : 4' X 8" AREA OF DECAY, 3RD BOARD FROM TOP, WITH SOIL SPILLING THROUGH, AT SOUTHWEST WINGWALL.



WINGWALLS : 4' X 8" AREA OF DECAY, 3RD FROM TOP, WITH SOIL SPILLING THROUGH, AT SOUTHWEST WINGWALL.



WINGWALLS : 3' X 8' AREA OF DECAY WITH SOIL SPILLING, 3' FROM TOP, AT NORTHEAST WINGWALL.

Structure 540140 County LINCOLN Date: Condition Photos



WINGWALLS : 5' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM BOTTOM, SOUTHWEST WINGWALL.



WINGWALLS : 2' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 8,9, & 10 FROM BOTTOM, SOUTHWEST WINGWALL.



WINGWALLS : SOUTHWEST WINGWALL POST 2 IS DECAYED.



WINGWALLS : 2' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 7, 8, & 9, FROM BOTTOM, SOUTHWEST WINGWALL, AT CORNER WITH BACKWALL.



END BENT 1 ABUTMENT/BACKWALL : 3' X 4" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 7TH BOARD FROM THE BOTTOM, OUTSIDE PILE 1.

Structure 540140 County LINCOLN Date: Condition Photos



END BENT 1 ABUTMENT/BACKWALL : 3' X 8" AREA OF DECAY, WITH SOIL SPILLING THROUGH, 10TH BOARD FROM THE BOTTOM, OUTSIDE PILES 1.

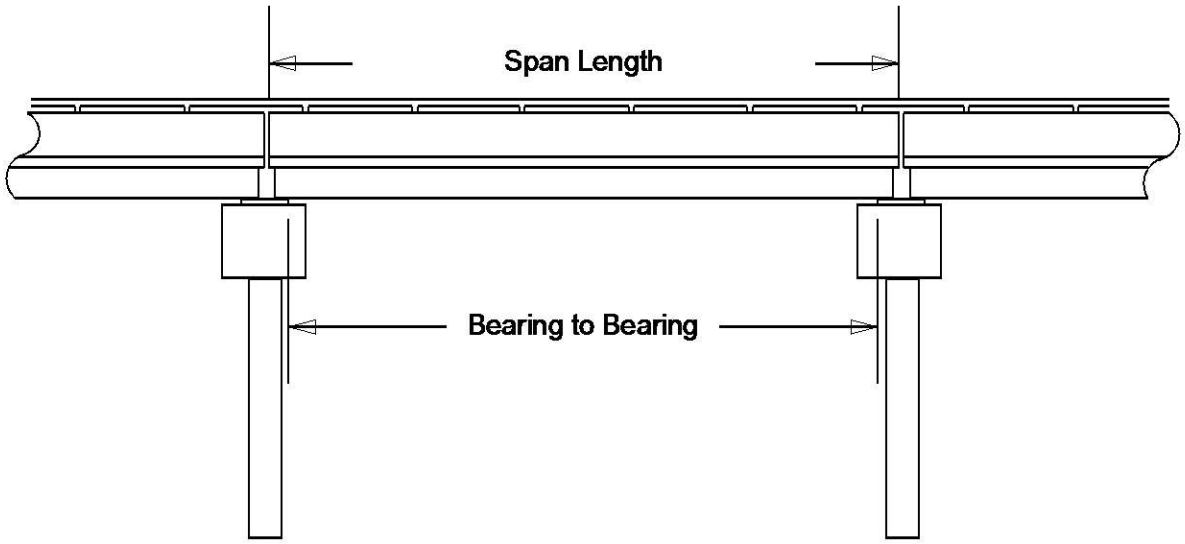
Structure 540140 County LINCOLN Date: Condition Photos



END BENT 1 ABUTMENT/BACKWALL : 11' X 2' AREA OF DECAY, WITH SOIL SPILLING THROUGH, BOARDS 1, 2, AND 3 BELOW CAP, BETWEEN PILES 1 THROUGH 3.

Structure Data Worksheet

County: LINCOLN **Structure No:** 540140 **Date:** **Inspected By:** TGZ



Span No	Span Length	Bearing to Bearing	Comments
1	30.250'	29.0'	
2	30.0'	29.333'	
3	30.250'	29.0'	NBIS = 88'-0"

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 540140 **County:** LINCOLN **Date:** **By:** TGZ

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

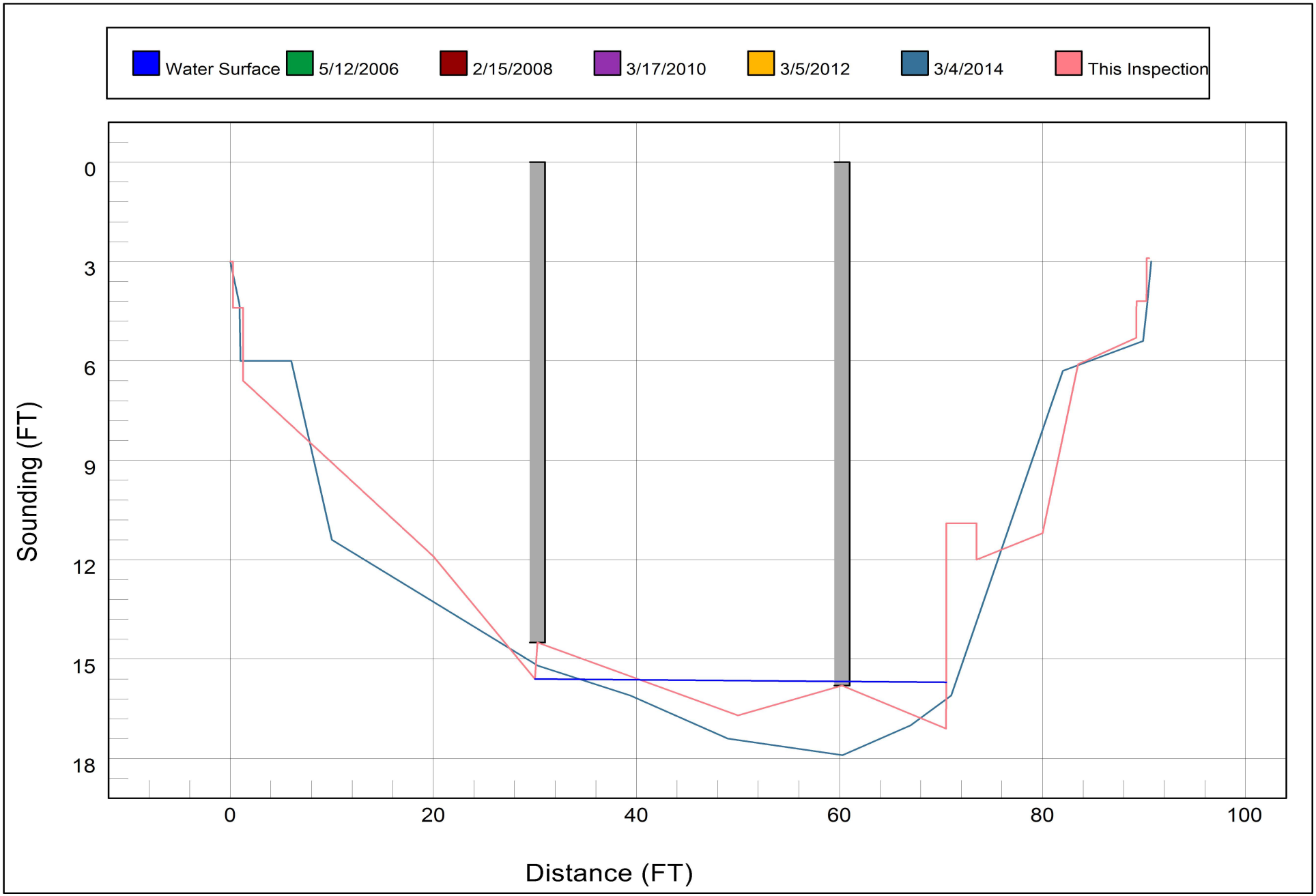
Distance from Highwater Mark to top of rail: 4 **Location of Highwater Mark:** DEBRIS ON TOP OF CAP

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FILL FACE	0	2	FILL FACE
0.25	3		0.25	2	
0.26	4.4	Top of Cap	0.26	4.25	Top of Cap
1.25	4.4		1.25	4.25	
1.26	6.6		1.26	12.3	
20	11.9		20	14.2	
30	15.6	Water Surface/Water Edge (WSWE)			
30.25	14.5	BENT 1 (SILL)	30.25	16.5	BENT 1
50	16.7	STREAM BED	50	17.6	STREAM BED
60.25	15.8	BENT 2	60.25	17.7	BENT 2
70.5	17.1	STREAM BED	70.5	15.5	
70.51	15.7	Water Surface (WS)			
70.52	10.9				
73.5	10.9		73.5	13.8	
73.5	12	GROUND			
80	11.2		80	9.8	
83.5	6.1		83.5	9.8	
89.24	5.3		89.24	7.4	
89.25	4.2	Top of Cap	89.25	4.2	Top of Cap
90.24	4.2		90.24	4.2	
90.25	2.9		90.25	2	
90.5	2.9	FILL FACE	90.5	2	FILL FACE

Bridge: 540140 County LINCOLN Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch



MEASURED 30 FT SOUTH OF END BENT 1

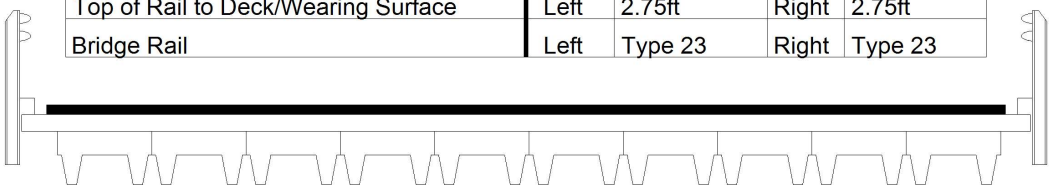
Roadway	17.083ft Wide	2 Paved Lanes	Looking North
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	8ft Wide		8ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED BY TGZ 3/14/2016

Title	**Description**		
APPROACH	APPROACH DETAILS		
Bridge No: 540140	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000609

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.417ft	Between Rails				24.417ft
Clear Roadway	24ft	Wearing Surface				0.25ft
Median Width		Median Height				
Curb Height		Left	0.833ft	Right	0.833ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	0.292ft	Right	0.292ft	
Top of Rail to Deck/Wearing Surface		Left	2.75ft	Right	2.75ft	
Bridge Rail		Left	Type 23	Right	Type 23	



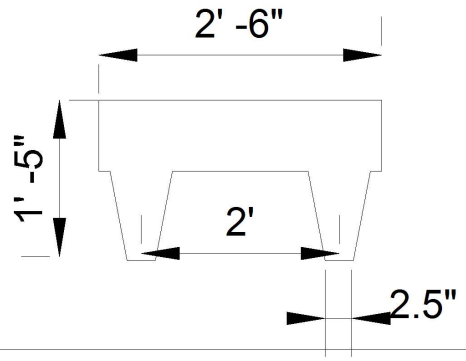
21' WIDE AWS

1/2" TARGRAVEL ADDED TO THE EXISTING 3" GIVING A 3 1/2" W.S .

Measurements for Span #	1		
Deck Thickness	0.417	Left Overhang	0.292
Top of Rail to Bottom of Beam	4.25	Right Overhang	0.292

Number of Channels	10
Leg Width	0.292ft
Leg Height	1ft
Leg to Leg (Centers)	2ft
Channel Width	2.5ft
Channel Height	1.417ft
Comments	

NO CURVED GIRDERS



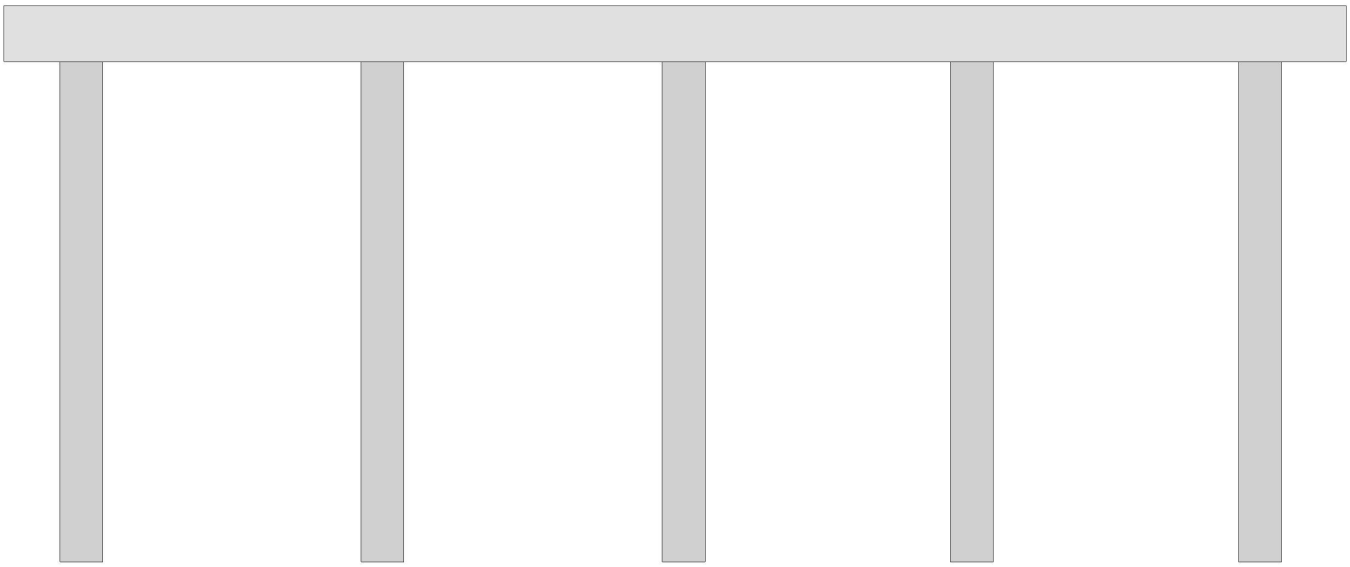
GUARDRAIL WIDTH ADDED
CURB HEIGHT CHANGED
OUT TO OUT CHANGED
LEG TO LEG CHANGED

MODIFIED BY TGZ 3/14/2016

Title	Description
DECK SECTION	TOP AND BOTTOM DETAILS

Bridge No:	Drawn By:	Date:	File Name:
540140	DEREK RICKUS	2/15/08	S0142000610

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.000 ft.	1.333 ft.	1.083 ft.	1.500 ft.	1.668ft.	.583 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	5.833 ft.	0.833 ft.			Vertical	Yes	No	No	No
2	Timber	5.833 ft.	0.833 ft.			Vertical	Yes	No	No	No
3	Timber	5.583 ft.	0.833 ft.			Vertical	Yes	No	No	No
4	Timber	5.583 ft.	0.833 ft.			Vertical	Yes	No	No	No
5	Timber		0.833 ft.			Vertical	Yes	No	No	No

CHANGED CAP LENGTH

CHANGED BEAM OVERHANGS

CHANGED OVERHANGS

CHANGED PILE SPACINGS

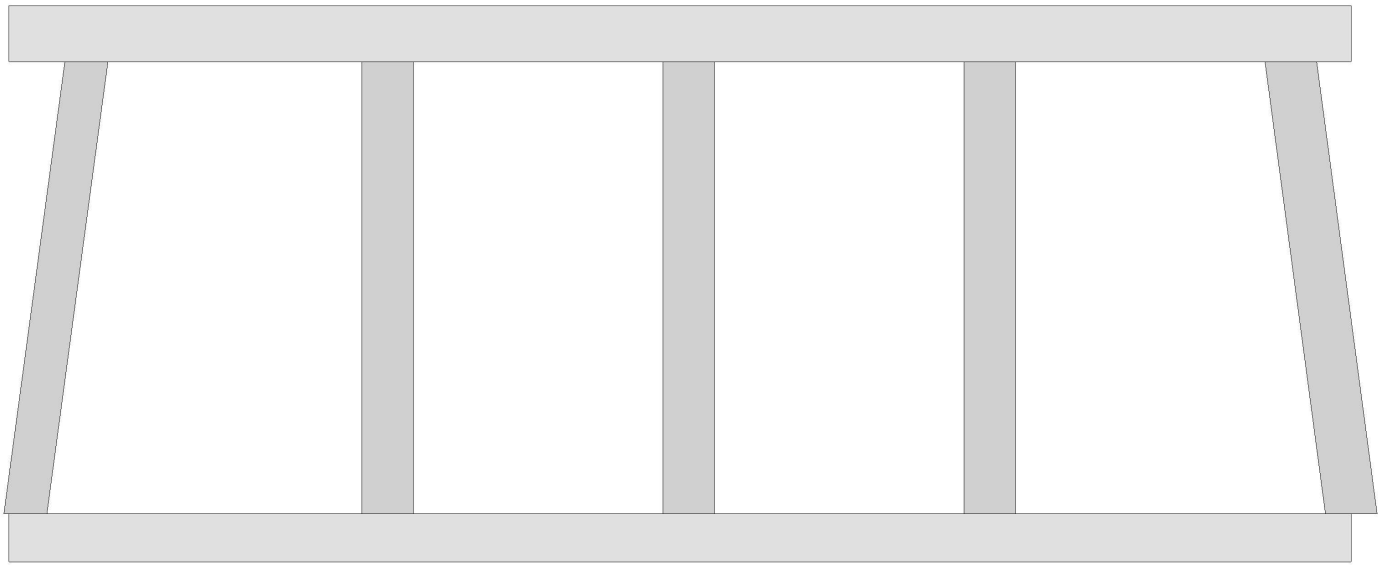
CHANGED PILE DIAMETER

MODIFIED BY TGZ, 3/14/2016

Bent/Abutment #: 1 Similar Bents:

Title	**Description**		
ABUT.	PILE DETAILS		
Bridge No: 540140	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000611

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.000 ft.	1.333 ft.	1.083 ft.	1.334 ft.	1.334 ft.	.583 ft.	.500 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	
30.000 ft.	3.000 ft.	4.000 ft.	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.833 ft.	0.833 ft.			Battered	Yes	No	No	No
2	Timber	5.833 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	5.833 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.833 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber		1 ft.			Battered	Yes	No	No	No

CHANGED CAP LENGTH

CHANGED BEAM OVERHANGS

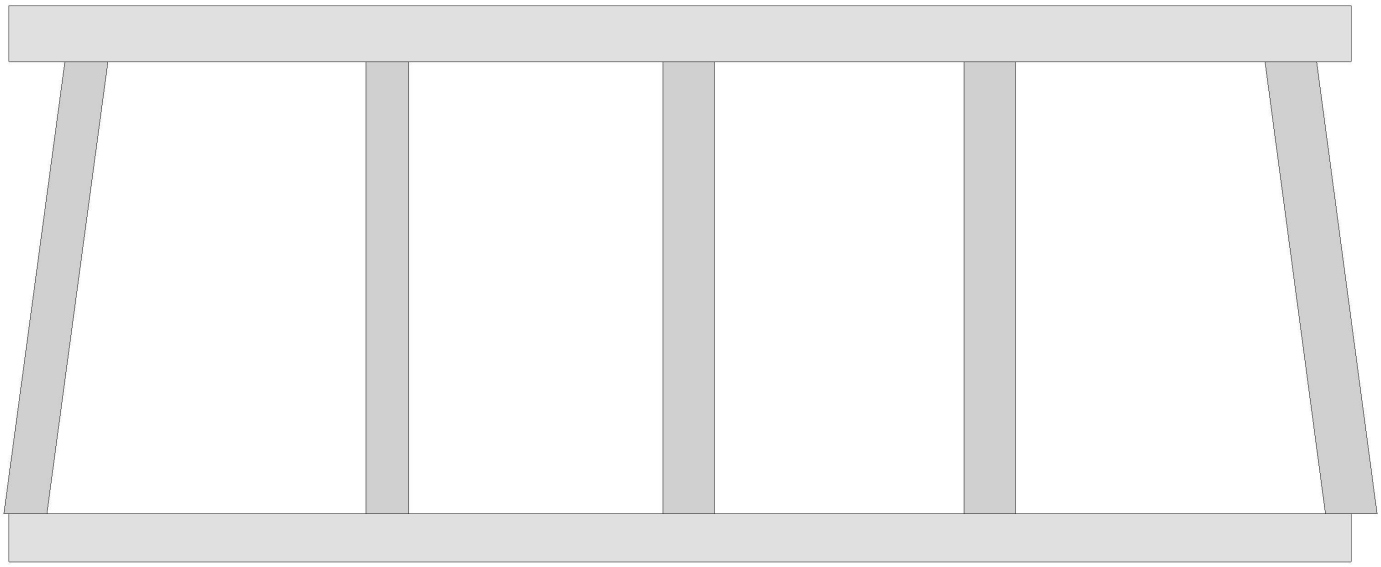
CHANGED PILE 2 & 5 ORIENTATION
CHANGED PILE 1 DIAMETER

MODIFIED BY TGZ ON 3/14/2016

Bent/Abutment #: 1 Similar Bents:

Title	**Description**		
INT. BTS.	PILE DETAILS		
Bridge No: 540140	**Drawn By:** DEREK RICKUS	**Date:** 2/15/08	**File Name:** S0142000612

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.000 ft.	1.333 ft.	1.083 ft.	1.334 ft.	1.334 ft.		

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	
30.000 ft.	3.000 ft.	4.000 ft.	

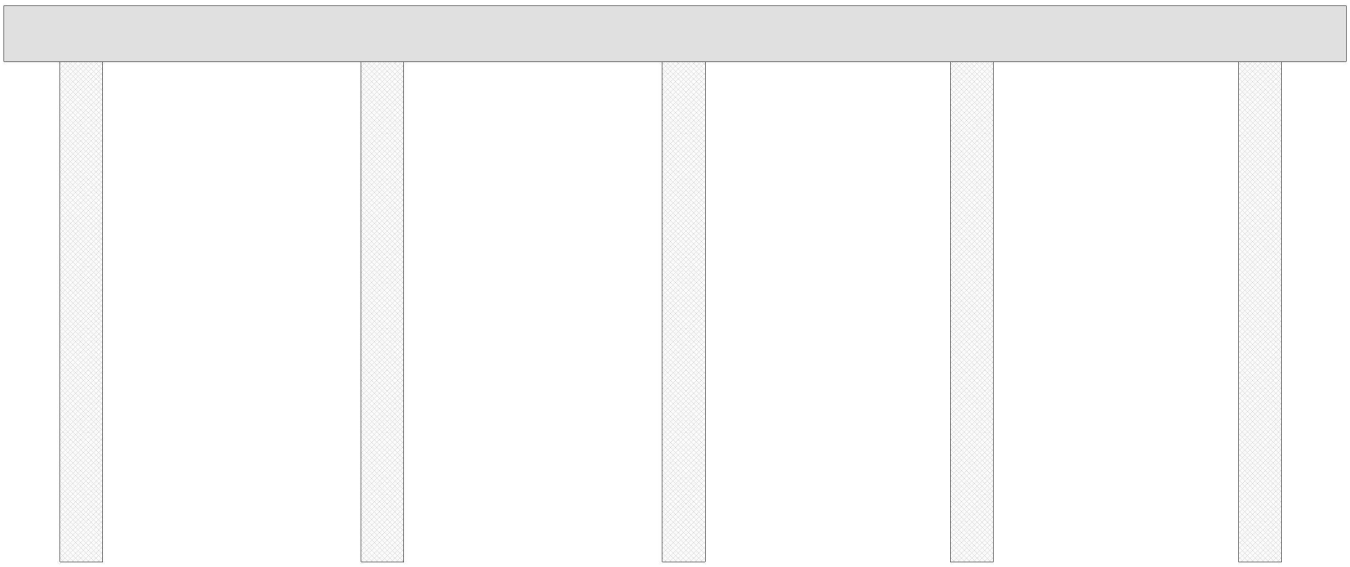
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	5.833 ft.	0.833 ft.			Battered	Yes	No	No	No
2	Timber	5.833 ft.	0.833 ft.			Vertical	Yes	No	No	No
3	Timber	5.833 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber	5.833 ft.	1 ft.			Vertical	Yes	No	No	No
5	Timber		1 ft.			Battered	Yes	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
BENT 2	INTERIOR BENT 2

Bridge No: 540140	**Drawn By:** MRM	**Date:** 3/15/2016	**File Name:** S0350000466

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
26.000 ft.	1.333 ft.	1.083 ft.	1.5 ft.	1.668 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	5.833 ft.	.833 ft.				No	No	No	No
2	Timber	5.833 ft.	.833 ft.				No	No	No	No
3	Timber	5.583 ft.	.833 ft.				No	No	No	No
4	Timber	5.583 ft.	.833 ft.				No	No	No	No
5	Timber		0.833 ft.				No	No	No	No

Bent/Abutment #: 2 Similar Bents:

Title	**Description**
SUBSTRUCTURE	END BENT 2

Bridge No: 540140	**Drawn By:** RLB	**Date:** 3/23/2016	**File Name:** S0350000469