



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: WAKE STRUCTURE NUMBER: 910249 FREQUENCY: 24 MONTHSFACILITY CARRIED: GLEN EDEN MILE POST: LOCATION: 0.9 MI.N.SR1676 0.9 MILES NORTH OF JUNCTION WITH SR 1676FEATURE INTERSECTED: I440LATITUDE: 35° 49' 35.17" LONGITUDE: 78° 41' 1.17"SUPERSTRUCTURE: RC FLOOR ON I-BEAMSSUBSTRUCTURE: E.BTS:REINF.CONC.CAPS/PPC PILES;INT.BTS:RCP&BEAM3@56'-0"; 1@48'-0"SPANS: 3@56";1@48"☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTIONPRESENT CONDITION: Fair INSPECTION DATE: 03/09/2015POSTED SV: Not Posted POSTED TTST: Not PostedOTHER SIGNS PRESENT: NONE

LOOKING EAST

Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

INSPECTED BY
T. GLENN ZEBLO

SIGNATURE

ASSISTED BY MARK E. GUSTAFSON

Span Element Report

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 1

Span Length 56 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
12		Reinforced Concrete Deck	3,160	1,816	1,344	0	0	1,344	3326
107		Steel Open Girder/Beam	448	448	0	0	0	0	3314
515	107	Steel Protective Coating	3736	3736	0	0	0	0	3342
215		Reinforced Concrete Abutment	69	69	0	0	0	0	3350
226		Prestressed Concrete Pile	9	9	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	56	56	0	0	0	0	3348
301		Pourable Joint Seal	57	57	0	0	0	0	3310
311		Movable Bearing	16	16	0	0	0	0	3334
515	311	Steel Protective Coating	32	32	0	0	0	0	3342
333		Other Bridge Railing	112	56	0	56	0	56	3318
510		Wearing Surface	0	0	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 56 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
12		Reinforced Concrete Deck	3,160	1,816	1,344	0	0	1,344	3326
107		Steel Open Girder/Beam	448	448	0	0	0	0	3314
515	107	Steel Protective Coating	3736	3736	0	0	0	0	3342
205		Reinforced Concrete Column	3	3	0	0	0	0	3348
220		Reinforced Concrete Pile Cap/Footing	9	9	0	0	0	0	3348
226		Prestressed Concrete Pile	6	6	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	49	24	23	2	0	25	3348
301		Pourable Joint Seal	57	57	0	0	0	0	3310
311		Movable Bearing	16	16	0	0	0	0	3334
515	311	Steel Protective Coating	32	32	0	0	0	0	3342
333		Other Bridge Railing	112	56	0	56	0	56	3318
510		Wearing Surface	0	0	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 56 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
12		Reinforced Concrete Deck	3,160	1,816	1,344	0	0	1,344	3326
107		Steel Open Girder/Beam	448	448	0	0	0	0	3314
515	107	Steel Protective Coating	3736	3736	0	0	0	0	3342
205		Reinforced Concrete Column	3	3	0	0	0	0	3348
226		Prestressed Concrete Pile	6	6	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	49	28	21	0	0	21	3348
301		Pourable Joint Seal	0	0	0	0	0	0	3310
311		Movable Bearing	16	16	0	0	0	0	3334
515	311	Steel Protective Coating	32	32	0	0	0	0	3342
333		Other Bridge Railing	112	56	0	56	0	56	3318

Structure Number: 910249

Inspection Date: 03/09/2015

510		Wearing Surface	0	0	0	0	0	0	2816
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"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 48 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
12		Reinforced Concrete Deck	2,709	1,492	1,216	1	0	1,217	3326
107		Steel Open Girder/Beam	384	384	0	0	0	0	3314
515	107	Steel Protective Coating	3200	3200	0	0	0	0	3342
205		Reinforced Concrete Column	3	2	0	1	0	2	3348
215		Reinforced Concrete Abutment	69	69	0	0	0	0	3350
226		Prestressed Concrete Pile	9	9	0	0	0	0	3348
226		Prestressed Concrete Pile	6	6	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	105	83	19	3	0	22	3348
301		Pourable Joint Seal	114	112	0	2	0	2	3310
311		Movable Bearing	16	16	0	0	0	0	3334
515	311	Steel Protective Coating	32	32	0	0	0	0	3342
333		Other Bridge Railing	96	48	0	48	0	48	3318
510		Wearing Surface	0	0	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 910249

Inspection Date: 03/09/2015

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	3160	1816	1344	0	0	1344	3326	☐ Requested
☒ Bridge Rail	1	333	Other Bridge Railing	56	56	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	333	Other Bridge Railing	56	0	0	56	0	56	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	2	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	3	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	4	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	5	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	6	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	7	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	8	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	57	57	0	0	0	0	3310	☐ Requested

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	3160	1816	1344	0	0	1344	3326	☐ Requested
☒ Bridge Rail	1	333	Other Bridge Railing	56	56	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	333	Other Bridge Railing	56	0	0	56	0	56	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	2	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	3	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	4	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	5	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	6	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	7	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	8	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	57	57	0	0	0	0	3310	☐ Requested

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	3160	1816	1344	0	0	1344	3326	☐ Requested
☒ Bridge Rail	1	333	Other Bridge Railing	56	56	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	333	Other Bridge Railing	56	0	0	56	0	56	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	2	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	3	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	4	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	5	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	6	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	7	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Beam	8	107	Steel Open Girder/Beam	56	56	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	467	467	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	2709	1492	1216	1	0	1217	3326	☐ Requested
☒ Bridge Rail	1	333	Other Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	333	Other Bridge Railing	48	0	0	48	0	48	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	2	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	3	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	4	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	5	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	6	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	7	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Beam	8	107	Steel Open Girder/Beam	48	48	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	400	400	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	7	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Bearing Device	8	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	57	57	0	0	0	0	3310	☐ Requested
☒ Expansion Joints	1	301	Pourable Joint Seal	57	55	0	2	0	2	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 910249

Inspection Date: 03/09/2015

Span Number 1

Span	1	Deck	1	Component Name: Reinforced Concrete Deck								
Element: 12	Name	Reinforced Concrete Deck	Qty:	3160	Lvl 2:	1,344	Lvl 3	0	Lvl 4	0	Maint. Qty	1,344
Defect Description:												

WORN DECK SURFACE WITH LARGE AGGREGATE EXPOSED IN TRAVEL LANES.

Span	Bridge Rail	2	Component Name:	Concrete and Metal Railing							
Element: 333	Name	Other Bridge Railing	Qty:	56	Lvl 2:	0	Lvl 3	56	Lvl 4	0 Maint. Qty	56
Defect Description:											

RIGHT SIDEWALK, CURB, AND PARAPET ARE HEAVILY WORN WITH MAP CRACKING AT 2" CENTERS.

Span Number 2

Span	Deck	1	Component Name:	Reinforced Concrete Deck							
Element: 12	Name	Reinforced Concrete Deck	Qty:	3160	Lvl 2:	1,344	Lvl 3	0	Lvl 4	0 Maint. Qty	1,344
Defect Description:											

WORN DECK SURFACE WITH LARGE AGGREGATE EXPOSED IN TRAVEL LANES.

Span	Bridge Rail	2	Component Name:	Concrete and Metal Railing							
Element: 333	Name	Other Bridge Railing	Qty:	56	Lvl 2:	0	Lvl 3	56	Lvl 4	0 Maint. Qty	56
Defect Description:											

RIGHT SIDEWALK, CURB, AND PARAPET ARE HEAVILY WORN WITH MAP CRACKING AT 2" CENTERS.

Span Number 3

Span	Deck	1	Component Name:	Reinforced Concrete Deck							
Element: 12	Name	Reinforced Concrete Deck	Qty:	3160	Lvl 2:	1,344	Lvl 3	0	Lvl 4	0 Maint. Qty	1,344
Defect Description:											

WORN DECK SURFACE WITH LARGE AGGREGATE EXPOSED IN TRAVEL LANES.

Span	Bridge Rail	2	Component Name:	Concrete and Metal Railing							
Element: 333	Name	Other Bridge Railing	Qty:	56	Lvl 2:	0	Lvl 3	56	Lvl 4	0 Maint. Qty	56
Defect Description:											

RIGHT SIDEWALK, CURB, AND PARAPET ARE HEAVILY WORN WITH MAP CRACKING AT 2" CENTERS.

Span Number 4

Span	Deck	1	Component Name:	Reinforced Concrete Deck							
Element: 12	Name	Reinforced Concrete Deck	Qty:	2709	Lvl 2:	1,216	Lvl 3	1	Lvl 4	0 Maint. Qty	1,217
Defect Description:											

64 SF OF 10' DIAGONAL CRACKS UP TO 0.03" AT 4' CENTERS IN DECK SURFACE, SOUTHEAST CORNER.

1' X 4" X 1" SPALL IN DECK SURFACE AT END BENT 2, 7' FROM LEFT CURB.

WORN DECK SURFACE WITH LARGE AGGREGATE EXPOSED IN TRAVEL LANES.

Span	Bridge Rail	2	Component Name:	Concrete and Metal Railing							
Element: 333	Name	Other Bridge Railing	Qty:	48	Lvl 2:	0	Lvl 3	48	Lvl 4	0 Maint. Qty	48
Defect Description:											

RIGHT SIDEWALK, CURB, AND PARAPET ARE HEAVILY WORN WITH MAP CRACKING AT 2" CENTERS.

Span	Expansion Joints	1	Component Name:	Standard Joint							
Element: 301	Name	Pourable Joint Seal	Qty:	57	Lvl 2:	0	Lvl 3	2	Lvl 4	0 Maint. Qty	2
Defect Description:											

18" DIAMETER X 2" SPALL IN LEFT APPROACH SIDEWALK SURFACE ADJACENT TO END BENT 2 CONCRETE

Structure Number: 910249
HEADER.

Inspection Date: 03/09/2015

Substructure Detailed Element Quantites

Structure Number: 910249

Inspection Date: 03/09/2015

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	56	56	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	1	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	2	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	3	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	4	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	5	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	6	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	7	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	8	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	9	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☒ Abutments	1	215	Reinforced Concrete Abutment	69	69	0	0	0	0	3350	☐ 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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	9	9	0	0	0	0	3348	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	49	24	23	2	0	25	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	1	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	2	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	3	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	4	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	5	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	6	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ 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	234	Reinforced Concrete Pier Cap	49	28	21	0	0	21	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	1	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	2	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	3	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	4	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	5	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	6	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ 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	234	Reinforced Concrete Pier Cap	49	30	19	0	0	19	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	0	0	1	0	2	3348	☐ Requested
☐ Foundation Pile	1	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	2	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	3	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	4	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	5	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Foundation Pile	6	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested

Structure Number: 910249

Inspection Date: 03/09/2015

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	56	53	0	3	0	3	3348	☐ Requested
☐ Piles and Columns	1	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	2	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	3	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	4	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	5	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	6	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	7	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	8	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	9	226	Prestressed Concrete Pile	1	1	0	0	0	0	3348	☐ Requested
☒ Abutments	1	215	Reinforced Concrete Abutment	69	69	0	0	0	0	3350	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 910249

Inspection Date: 03/09/2015

Bent 1

Bent 1												
Row 1	Caps		1									
Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	49	Lvl 2:	23	Lvl 3	2	Lvl 4	0	Maint. Qty	25
Defect Description:												

24" X 12" X 3" SPALL WITH EXPOSED REINFORCING ON EAST FACE OF CAP, BETWEEN BEAMS 6 AND 7.
 14' X 2' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 5 AND 7.
 11' X 3' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 2 AND 4.
 7' X 2' DELAMINATION ON WEST FACE OF CAP, BETWEEN BEAMS 5 AND 6.
 11' X 2' DELAMINATION ON WEST FACE OF CAP, BEGINNING AT BEAM 2.

Bent 2	Row 1	Caps	1									
Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	49	Lvl 2:	21	Lvl 3	0	Lvl 4	0	Maint. Qty	21
Defect Description:												

7' X 2' DELAMINATION ON WEST FACE OF CAP, UNDER BEAM 3.
 4' X 1' DELAMINATION ON WEST FACE OF CAP, BEGINNING UNDER BEAM 6.
 7' X 1' DELAMINATION AT TOP AND BOTTOM OF CAP ON EAST FACE, BEGINNING UNDER BEAM 3.
 7' X 1' DELAMINATION AT TOP EAST FACE OF CAP, BEGINNING UNDER BEAM 7.

Bent 3	Row 1	Caps	1									
Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	49	Lvl 2:	19	Lvl 3	0	Lvl 4	0	Maint. Qty	19
Defect Description:												

7' X 2' DELAMINATION ON UNDERSIDE OF CAP, BETWEEN COLUMNS 2 AND 3.
 1' X 2' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 3 AND 4.
 4' X 3' DELAMINATION ON UNDERSIDE OF CAP, BELOW BEAM 3.
 7' X 1' DELAMINATION ON WEST FACE OF CAP, BETWEEN BEAMS 7 AND 8.

Bent 3	Row 1	Piles and Columns	3									
Element: 205	Name	Reinforced Concrete Column	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	2
Defect Description:												

21" X 6" X 1" SPALL ON NORTH FACE OF COLUMN, 7' ABOVE GRADE.

End Bent 2	Row 1	Caps	1									
Element: 234	Name	Reinforced Concrete Pier Cap	Qty:	56	Lvl 2:	0	Lvl 3	3	Lvl 4	0	Maint. Qty	3
Defect Description:												

3' LONGITUDINAL CRACK UP TO 0.06" WITH RUST STAINING ON FACE OF CAP, BETWEEN BEAMS 6 AND 7.

National Bridge and NC Inspection Items

Structure Number: 910249

Inspection Date: 03/09/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	7
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	
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	432	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C	F	53	3352
Wingwall	G, F, P, or C	G	0	3350
Scour	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		

Note: If NC SMU Inspection Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	9
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
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: 910249

Inspection Date: 03/09/2015

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	432
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Details UP TO 2' WIDE X FULL LENGTH OF SAND AND DEBRIS IN LEFT CURB LINE.

Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	53
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Details 8' TRANSVERSE CRACK IN SLOPE PROTECTION BERM AT END BENT 1 EXTERIOR BRACE PILE CAPS, UP TO 1/2" WITH UP TO 1/2" OF VERTICAL DISPLACEMENT.
EXTERIOR END BENT 1 SLOPE PROTECTION PANEL UNDER BEAM 8 HAS A 40' X 1" LONGITUDINAL CRACK DUE TO VEGETATION GROWTH.
3.5' TRANSVERSE CRACK UP TO 1/2" WITH 1" VERTICAL DISPLACEMENT ON END BENT 2 SLOPE PROTECTION BERM, BETWEEN BEAMS 6 AND 7.
2" OF SETTLEMENT IN END BENT 2 SLOPE PROTECTION BERM, BEGINNING OUTSIDE OF BEAM 1.



Span 4 Deck: 64 SF OF 10' DIAGONAL CRACKS UP TO 0.03" AT 4' CENTERS IN DECK SURFACE, SOUTHEAST CORNER.



Expansion Joint 5 : 18" DIAMETER X 2" SPALL IN LEFT APPROACH SIDEWALK SURFACE ADJACENT TO END BENT 2 CONCRETE HEADER.



Span 4 Deck: 1' X 4" X 1" SPALL IN DECK SURFACE AT END BENT 2, 7' FROM LEFT CURB.



UP TO 2' WIDE X FULL LENGTH OF SAND AND DEBRIS IN LEFT CURB LINE.



Span 4 Right Bridge Rail: RIGHT SIDEWALK, CURB, AND PARAPET ARE HEAVILY WORN WITH MAP CRACKING AT 2" CENTERS.



Span 2 Deck: WORN DECK SURFACE WITH LARGE AGGREGATE EXPOSED IN TRAVEL LANES.



8' TRANSVERSE CRACK IN SLOPE PROTECTION BERM AT END BENT 1 EXTERIOR BRACE PILE CAPS, UP TO 1/2" WITH UP TO 1/2" OF VERTICAL DISPLACEMENT.



EXTERIOR END BENT 1 SLOPE PROTECTION PANEL UNDER BEAM 8 HAS A 40' X 1" LONGITUDINAL CRACK DUE TO VEGETATION GROWTH.



Bent 1 Cap : 24" X 12" X 3" SPALL WITH EXPOSED REINFORCING ON EAST FACE OF CAP, BETWEEN BEAMS 6 AND 7.



Bent 1 Cap : 14' X 2' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 5 AND 7.



Bent 1 Cap : 11' X 3' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 2 AND 4.



Bent 1 Cap : 7' X 2' DELAMINATION ON WEST FACE OF CAP, BETWEEN BEAMS 5 AND 6.



Bent 1 Cap : 11' X 2' DELAMINATION ON WEST FACE OF CAP, BEGINNING AT BEAM 2.



Bent 2 Cap : 7' X 2' DELAMINATION ON WEST FACE OF CAP, UNDER BEAM 3.



Bent 2 Cap : 4' X 1' DELAMINATION ON WEST FACE OF CAP, BEGINNING UNDER BEAM 6.



Bent 2 Cap : 7' X 1' DELAMINATION AT TOP AND BOTTOM OF CAP ON EAST FACE, BEGINNING UNDER BEAM
3.



Bent 2 Cap : 7' X 1' DELAMINATION AT TOP EAST FACE OF CAP, BEGINNING UNDER BEAM 7.



Bent 3 Cap : 7' X 2' DELAMINATION ON UNDERSIDE OF CAP, BETWEEN COLUMNS 2 AND 3.



Bent 3 Cap : 1' X 2' DELAMINATION ON EAST FACE OF CAP, BETWEEN BEAMS 3 AND 4.



Bent 3 Cap : 4' X 3' DELAMINATION ON UNDERSIDE OF CAP, BELOW BEAM 3.



Bent 3 Pile 3: 21" X 6" X 1" SPALL ON NORTH FACE OF COLUMN, 7' ABOVE GRADE.



Bent 3 Cap : 7' X 1' DELAMINATION ON WEST FACE OF CAP, BETWEEN BEAMS 7 AND 8.



End Bent 2 Cap : 3' LONGITUDINAL CRACK UP TO 0.06" WITH RUST STAINING ON FACE OF CAP, BETWEEN BEAMS 6 AND 7.



3.5' TRANVERSE CRACK UP TO 1/2" WITH 1" VERTICAL DISPLACEMENT ON END BENT 2 SLOPE PROTECTION BERM, BETWEEN BEAMS 6 AND 7.



2" OF SETTLEMENT IN END BENT 2 SLOPE PROTECTION BERM, BEGINNING OUTSIDE OF BEAM 1.



WEST APPROACH, LOOKING EAST



LOOKING EAST



SOUTH BRIDGE RAIL



CONCRETE BRIDGE DECK , SPAN 1, LOOKING EAST



NORTH BRIDGE RAIL



NORTH PEDESTRIAN RAIL



NORTH RAIL PEDESTRIAN FENCING



NORTH SIDEWALK, LOOKING EAST



JOINT OVER END BENT 1, LOOKING SOUTH



JOINT OVER BENT 1, LOOKING SOUTH



JOINT OVER BENT 2, LOOKING SOUTH



ROADWAY VIEW, LOOKING NORTH



JOINT OVER BENT 3, LOOKING SOUTH



JOINT OVER END BENT 2, LOOKING SOUTH



EAST APPROACH, LOOKING WEST



END BENT 1 ELEVATION, LOOKING WEST



BENT 1 ELEVATION, LOOKING EAST



BENT 2 ELEVATION, LOOKING EAST



INTERMEDIATE DIAPHRAGM, BAY 3, SPAN 1, LOOKING EAST



END DIAPHRAGM, BAY 3 OVER BENT 1, SPAN 1, LOOKING EAST



UTILITY IN BAY 1, LOOKING EAST



END BENT 1 SLOPE PROTECTION, LOOKING WEST



NORTHWEST WINGWALL



SOUTHWEST WINGWALL



BEARING ASSEMBLY, BEAM 2, END BENT 1, LOOKING WEST



SUPERSTRUCTURE UNDERSIDE, SPAN 1, LOOKING EAST



END BENT 2 SLOPE PROTECTION, LOOKING EAST



END BENT 2 ELEVATION, LOOKING EAST



NORTHEAST WINGWALL



SOUTHEAST WINGWALL



BENT 3 ELEVATION, LOOKING WEST



ROADWAY VIEW, LOOKING SOUTH



SOUTH PROFILE, LOOKING NORTH



NORTH PROFILE, LOOKING SOUTH

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

Run Date: 02/06/2017

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	910249		SUFFICIENCY RATING =	75.97
(8) STRUCTURE NUMBER(FEDERAL)		000000001830249		STATUS =	Functionally Obsolete
(5) INVENTORY ROUTE (ON/UNDER) - ON		50000000			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION	
(3) COUNTY CODE	183	(4) PLACE CODE	55000	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED -	I440			(104)HIGHWAY SYSTEM	Is not on NHS 0
(7) FACILITY CARRIED	GLEN EDEN			(26) FUNCTIONAL CLASS -	Local 19
(9) LOCATION	0.9 MI.N.SR1676			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route 0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure N
(16)LAT	35° 49' 35.17"	(17)LONG	78° 41' 1.17"	(102)DIRECTION OF TRAFFIC -	2-way Traffic 2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network 0
				(20) TOLL	On Free Road 3
				(31) MAINTAIN -	State Highway Agency 01
				(22) OWNER -	State Highway Agency 01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible 5
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN:	Steel				
TYPE -	Stringer Mutlibeam or Girder	CODE	302		
(44) STRUCTURE TYPE APPR :				CONDITION	
TYPE -		CODE	000	(58) DECK	7
(45) NUMBER OF SPANS IN MAIN UNIT			4	(59) SUPERSTRUCTURE	7
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE	5
(107)DECK STRUCTURE TYPE -	1	CODE		(61) CHANNEL & CHANNEL PROTECTION	N
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS	N
(A) TYPE OF WEARING SURFACE -		CODE			
(B) TYPE OF MEMBRANE	-	CODE		LOAD RATING AND POSTING	
(C) TYPE OF DECK PROTECTION -		CODE		(31) DESIGN LOAD	HS 15 3
				(63) OPERATING RATING METHOD -	Load Factor 1
				(64) OPERATING RATING -	HS-31 55
				(65) INVENTORY RATING METHOD -	Load Factor 1
				(66) INVENTORY RATING -	HS-18 33
				(70) BRIDGE POSTING -	No Posting Required 5
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
				DESCRIPTION -	Open, No Restriction
AGE AND SERVICE				APPRAISAL	
(27) YEAR BUILT			1963	(67) STRUCTURAL EVALUATION	5
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY	5
(42) TYPE OF SERVICE : ON -	Highway - Pedestrian			(69) UNDERCLEARANCES,VERTI & HORIZ	3
UNDER - Highway		CODE	51	(71) WATERWAY ADEQUACY	N
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		6	(72) APPROACH ROADWAY ALIGNMENT	8
(29) AVERAGE DAILY TRAFFIC			7600	(36) TRAFFIC SAFETY FEATURES	0000
(30) YEAR OF ADT	2009	(109) TRUCK ADT PCT	7%	(113)SCOUR CRITICAL BRIDGES	N
(19) BYPASS OR DETOUR LENGTH			5 MI		
GEOMETRIC DATA				PROPOSED IMPROVEMENTS	
(48) LENGTH OF MAXIMUM SPAN			55 FT	(75) TYPE OF WORK -	CODE
(49) STRUCTURE LENGTH			216 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(50)CURB OR SIDEWALK: LEFT	10 FT RIGHT		5 FT	(94) BRIDGE IMPROVEMENT COST	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			38.167 FT	(95) ROADWAY IMPROVEMENT COST	
(52) DECK WIDTH OUT TO OUT			56.417 FT	(96) TOTAL PROJECT COST	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			38 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(33) BRIDGE MEDIAN -	No Median	CODE	0	(114)FUTURE ADT	15200
(34) SKEW	5°	(35) STRUCTURE FLARED	0	(115) YEAR FUTURE ADT	2025
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			38.167 FT	INSPECTIONS	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	(90) INSPECTION DATE	03/09/2015
(54) MIN VERT UNDERCLEAR REF	Highway		21.45 FT	(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(55) MIN LAT UNDERCLEAR RT REF	Highway		9 FT	A) FRACTURE CRIT DETAIL -	NO A)
(56) MIN LAT UNDERCLEAR LT REF -			5 FT	B) UNDERWATER INSP -	NO B)
				C) OTHER SPECIAL INSP	NO C)
				SCOUR	
NAVIGATION DATA					
(38) NAVIGATION CONTROL -	Not Applicable	CODE	N		
(111)PIER PROTECTION -		CODE			
(39) NAVIGATION VERTICAL CLEARANCE			0		
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT		
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT		

Structure No: 910249

County: WAKE

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I440S,US1S	11004400	22	55	1	10440		11	3	56000	2011	49.7	H	21.9	9.5	4.5	9	1	1	1
3	I440N,US1N	11004400	21.85	55	1	10440		11	3	56000	2011	49.5	H	21.45	9	5	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 02/06/2017

COUNTY : WAKE DIVISION : 5 DISTRICT : 1 STRUCTURE NUMBER : 910249 LENGTH : 216 FEET

ROUTE CARRIED : GLEN EDEN FEATURE INTERSECTED : I440

LOCATED : 0.9 MI.N.SR1676 BRIDGE NAME : CITY : RALEIGH

FUNC. CLASS : 19 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 7600 2009 RAIL TYPE : LT 139 RT 139

BUILT : 1963 BY : SHC PROJ : 8.14908 FED.AID PROJ : SF432102 DESIGN LOAD : HS 15

REHAB : BY : PROJ : ALIGNMENT : TAN. SKEW : 95 LANES : ON 2 UNDER 6

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

SUPERSTRUCTURE : RC FLOOR ON I-BEAMS

SUBSTRUCTURE : E.BTS:REINF.CONC.CAPS/PPC PILES;INT.BTS:RCP&BEAM

SPANS : 3@56';1@48'

BEAMS OR GIRDERS : 8-LINES @7'CTS.;SPANS 1,2&3:W33X118,SPAN4:W33X130

FLOOR : 7RC/LATEX MOD. CONC. OVERLAY ENCROACHMENT : UTILITY LN. DECK (OUT TO OUT) : 56.417 FT

CLEAR ROADWAY : 38.167 FT BETWEEN RAILS : 54.25 FT SIDEWALK OR CURB : LT 10 FT RT 5 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-18 OPE.RTG. : HS-31 CONTR.MEMBER : I-Bm D ext POSTED : SV TTST DATE 09/05/2007

SYSTEM : Primary Municipal roads over State System GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I440S,US1S	22	21.90	49.70	4.50	9.50
3	I440N,US1N	21.85	21.45	49.50	5	9

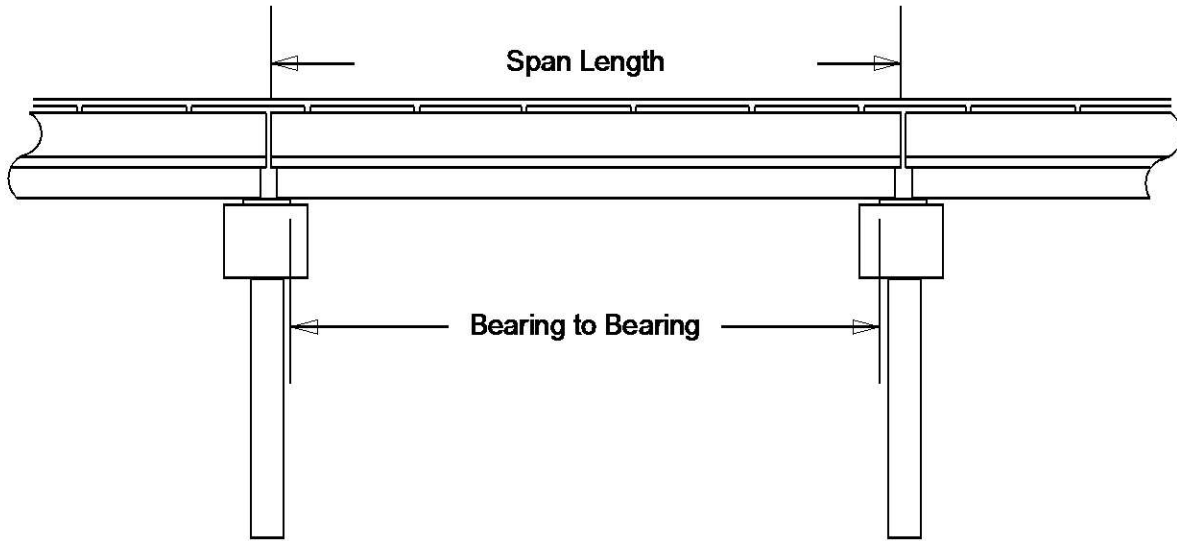
Note: All measurements are in feet.

REMARKS :

Structure Data Worksheet

Spans

County: WAKE Structure No: 910249 Date: _____ Inspected By: TGZ



Span No	Span Length	Bearing to Bearing	Comments
1	56.0	54.25	
2	56.0	55.0	
3	56.0	55.0	
4	48.0	46.25	NBIS LENGTH = 210'-8"

Bridge Inspection Field Sketch

SIDEWALK



Roadway	36ft Wide	2 Paved Lanes	Looking East
Right Shoulder	2.5ft Wide	2.5ft Paved	
Left Shoulder	2.5ft Wide	2.5ft Paved	
Left Guardrail			
Right Guardrail			

ROADWAY WIDTH CHANGED

LEFT AND RIGHT SHOULDERS CHANGED

MODIFIED BY TGZ 3/9/15

Title

APPROACH ROADWAY

Description

LOOKING EAST

Bridge No: 910249

Drawn By: ado

Date: 03/17/2009

File Name: S0010000501

Bridge Inspection Field Sketch

Deck Width/Out to Out	56.417ft	Between Rails	54.25ft
Clear Roadway	38.167FT	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.67ft
Sidewalk Width		Left	11.083ft
Clear Roadway (Rail to Median)		Right	5ft
Guardrail Width		Left	1.083ft
Top of Rail to Deck/Wearing Surface		Right	1.083ft
Bridge Rail		Left	4.063ft
		Right	4.063ft
		Left	Type 13
		Right	Type 13

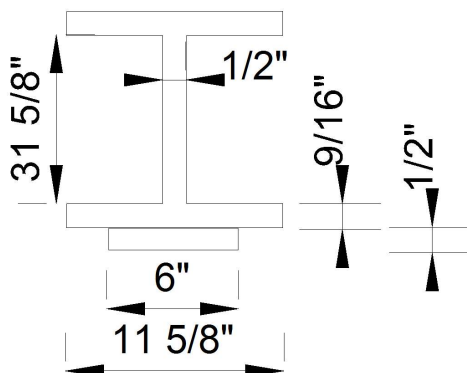
SAFETY
FENCE

PEDESTRIAN FENCE

EXISTING
UTILITY

Measurements for Span #	1		
Deck Thickness	0.583	Left Overhang	5.208
Top of Rail to Bottom of Beam	7.792	Right Overhang	5.208

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	7.0ft	
2	Steel I Beam	7.0ft	
3	Steel I Beam	7.0ft	
4	Steel I Beam	4.0ft	
5	Steel I Beam	7.0ft	
6	Steel I Beam	7.0ft	
7	Steel I Beam	7.0ft	
8	Steel I Beam	ft	



BOTTOM PLATE IN SPANS 1-3 ONLY

NO CURVED GIRDERS

LEFT SIDEWALK CHANGED
GUARDRAIL WIDTHS ADDED
BEAM DIMENSIONS ADDED

MILEPOST 5.5 ON I-440 BENEATH

MODIFIED BY TGZ 3/9/15

Title

TYPICAL SECTION

Description

8 --- LINES STEEL GIRDERS

Bridge No: 910249

Drawn By: ado

Date: 03/17/2009

File Name: S0010000502

Bridge Inspection Field Sketch

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Title

VERT. CLEARANCE SPAN 3

Description

LOOKING EAST I - 440

Bridge No: 910249

Drawn By: TFM

Date: 03/23/2011

File Name: S0010000503

Bridge Inspection Field Sketch

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Title

VERTICAL CLEARANCE SPAN 2

Description

LOOKING WEST I - 440

Bridge No: 910249

Drawn By: TFM

Date: 03/23/2011

File Name: S0010000504

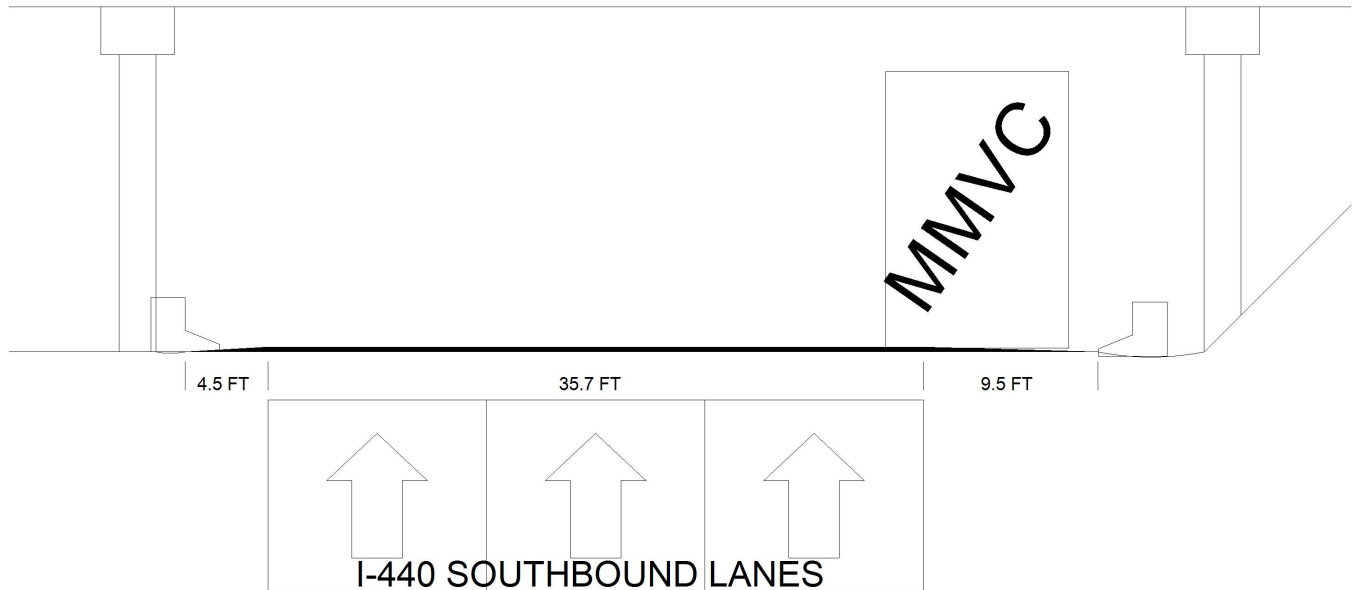
Bridge Inspection Field Sketch

◀ EAST

GLEN EDEN DR

WEST ▶

Span 2



Roadway 1		Direction of Traffic	South
Distance to Left Rail	4.5FT	Distance to Right Rail	9.5FT
Distance to Left Toe of Slope		Distance to Left Bent	6.1FT
Distance to Right Toe of Slope	15.3FT	Distance to Right Bent	11FT
MMVC	22 Ft at Beam 8, 2 FT from WHITE LINE AT SHOULDER		
MVC	21.9 Ft at Beam 8, 0 FT from YELLOW LINE		

LIDAR VERIFIED

Title

H249 SPAN 2 LIDAR

Description

CLEARANCE

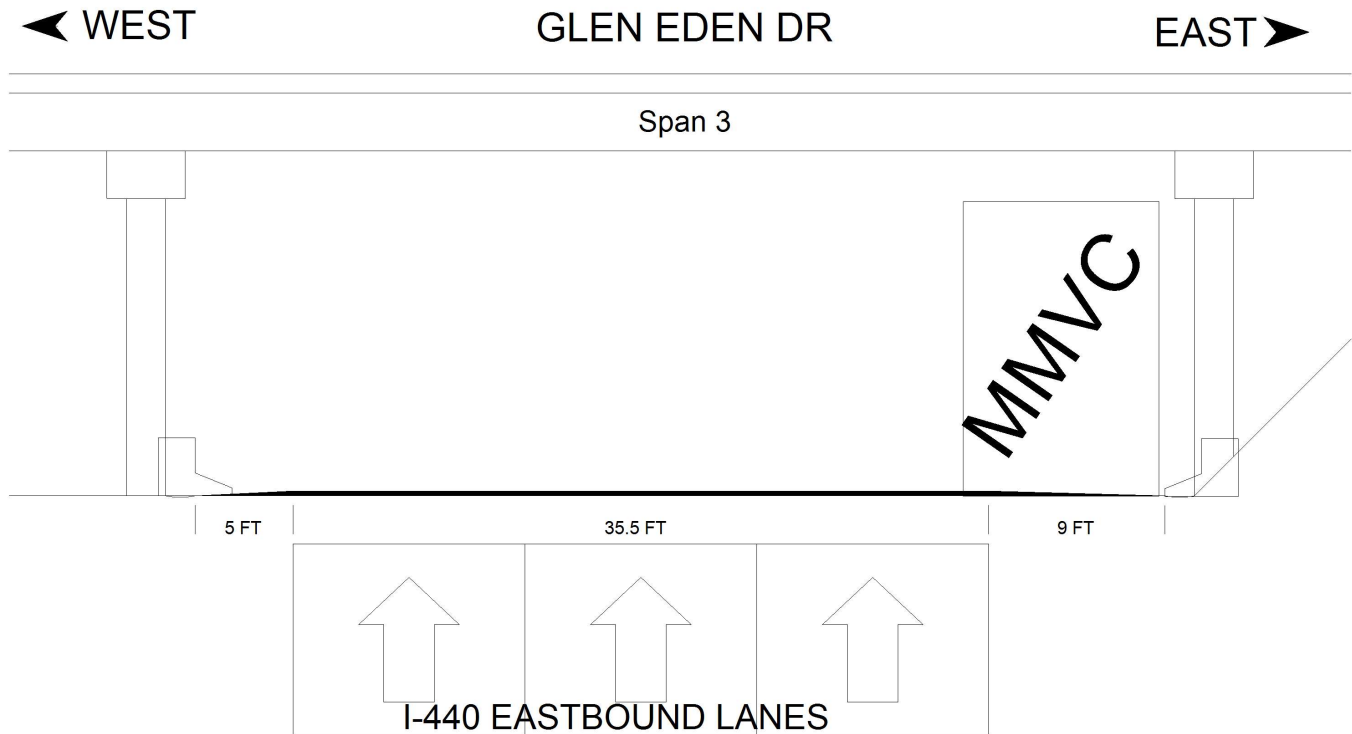
Bridge No: 910249

Drawn By: TA

Date: 6/21/2013

File Name: S0550000191

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	5FT	Distance to Right Rail	9FT
Distance to Left Toe of Slope		Distance to Left Bent	6.5FT
Distance to Right Toe of Slope	10.5FT	Distance to Right Bent	10.5FT
MMVC	21.85 Ft at Beam 8, 1 FT from WHITE LINE AT SHOULDER		
MVC	21.45 Ft at Beam 8, 12 FT from YELLOW LINE		

LIDAR VERIFIED

Title		Description	
H249 SPAN 3 LIDAR		CLEARANCE	
Bridge No:	910249	Drawn By:	TA
Date:	6/21/2013	File Name:	S0550000192

Bridge Inspection Field Sketch										
Cap Information						Material Cast-in-Place Concrete				
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
48.500 ft.	3.000 ft.	3.000 ft.	4.500 ft.	4.500 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	Concrete	19.75 ft.	3 ft.	3 ft.		Vertical	No	No	No	No
2	Concrete	19.75 ft.	3 ft.	3 ft.		Vertical	No	No	No	No
3	Concrete		3 ft.	3 ft.		Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents: 2-3										
Title TYPICAL INT. BENT						Description INTERIOR BENTS 1 - 3				
Bridge No: 910249		Drawn By: MEG				Date: 3/9/2015		File Name: S0454000173		