



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE, REVISED  
 SUPERSTRUCTURE SKETCHES**

# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 06/07/2018

DIVISION: 2 COUNTY: BEAUFORT STRUCTURE NUMBER: 060003 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US17 MILE POST: \_\_\_\_\_

LOCATION: 2.0 MI SW JCT. US264

FEATURE INTERSECTED: NORFOLK SOUTHERN

LATITUDE: 35° 31' 49.56" LONGITUDE: 77° 4' 24.12"

SUPERSTRUCTURE: RC DECK GIRDER W/ I-BEAMS

SUBSTRUCTURE: EBTS&IBTS:RC CAPS/RC PILES

SPANS: 5 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

GRADES: DECK 7 SUPERSTRUCTURE 5 SUBSTRUCTURE 5 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



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>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS \_\_\_\_\_

SOUTH APPROACH LOOKING NORTH

INSPECTED BY H.W. HICKS, JR.	SIGNATURE 	ASSISTED BY M.W. ROBERTSON
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## Structure Element Scoring

Structure Number: **060003**

Inspection Date **6/7/2018**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	9800	9797	0	3	0
107	0	Steel Open Girder/Beam	Beam	1026	974	49	3	0
515	107	Steel Protective Coating	Beam	5892	5807	0	0	85
110	0	Reinforced Concrete Open Girder/Beam	Beam	855	842	2	11	0
215	0	Reinforced Concrete Abutment	Abutments	100	100	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	74	74	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	524	452	24	43	5
301	0	Pourable Joint Seal	Expansion Joints	504	504	0	0	0
311	0	Movable Bearing	Bearing Device	55	46	5	4	0
515	311	Steel Protective Coating	Bearing Device	55	46	0	0	9
313	0	Fixed Bearing	Bearing Device	55	50	2	3	0
515	313	Steel Protective Coating	Bearing Device	55	50	0	0	5
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	346	139	206	1	0
510	0	Wearing Surface	Wearing Surfaces	8856	8856	0	0	0

# Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **060003**

Inspection Date: **06/07/2018**

<b>MMS Code</b>	<b>Element Name</b>	<b>Defect Name</b>	<b>Recommended Quantity</b>
3326	Reinforced Concrete Deck	Exposed Rebar	3 Square Feet
3314	Steel Open Girder/Beam	Corrosion	3 Feet
3306	Reinforced Concrete Open Girder/Beam	Exposed Rebar	1 Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	12 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	32 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	5 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	3 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	4 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	99 Square Feet

## Element Structure Maintenance Quantities

Structure Number: **060003**

Inspection Date **06/07/2018**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	100	0	0	0	100
Beam	3306	Maintenance Concrete Superstructure Components	13	855	0	11	2	842
Beam	3314	Maintenance Steel Superstructure Components	3	1026	0	3	49	974
Beam	3342	Clean and Paint Steel	85	5892	85	0	0	5807
Bearing Device	3334	Bridge Bearing	0	110	0	7	7	96
Bearing Device	3342	Clean and Paint Steel	14	110	14	0	0	96
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	2	346	0	1	206	139
Caps	3348	Maintenance of Concrete Substructure	46	524	5	43	24	452
Deck	3326	Maintenance of Concrete Deck	3	9800	0	3	0	9797
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	504	0	0	0	504
Piles and Columns	3348	Maintenance of Concrete Substructure	0	74	0	0	0	74
Wearing Surfaces	2816	Asphalt Surface Repair	0	8856	0	0	0	8856

## Element Condition and Maintenance Data

Structure Number: 060003

Inspection Date: 06/07/2018

### Span 1 Deck Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,877	1,874	0	3	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Exposed Rebar	SPALL 24" LONG X 18" WIDE X 4" DEEP WITH 10% LOSS OF SECTION ON EXPOSED REBAR AT BENT 1 END OVERHANG. (PRIORITY MAINTENANCE)	3	3	3	Square Feet

**General Comments**

### Span 1 Wearing Surface Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,696	1,696	0	0	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<b>General Comments</b>						
RECENTLY REPAVED						

### Span 1 Left Bridge Rail Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	33	0	33	0	0	Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<b>General Comments</b>						

### Span 1 Beam 1 Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	30	3	0	0	Feet
515	Steel Protective Coating	204	198	0	0	6	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 6" HIGH IN WEB AT BENT 1 END.	2	3		Feet
515	Effectiveness (Steel Protective Coatings)	PAIN T HAS FAILED WITH BARE METAL EXPOSED ON BEAM END AT BENT 1 END.	4	6	6	Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 1 BEAM. 1 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments**

**Span 1 Beam 11**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	33	30	3	0	0 Feet
515	Steel Protective Coating	204	198	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 18" HIGH IN WEB AT BENT 1 END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM END BENT 1 END.	4	6	6 Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 1 BEAM. 11 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments**

**Span 1 Expansion Joint**  
**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**Span 2 Expansion Joint**  
**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**Span 2 Wearing Surface**  
**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,692	1,692	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

RECENTLY REPAVED

**Span 2 Left Bridge Rail**  
**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	33	0	33	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

**Span 2 Beam 1**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	33	27	6	0	0 Feet
515	Steel Protective Coating	191	179	0	0	12 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 6" HIGH IN WEB AT BENTS 1 AND 2 ENDS.	2	6	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	12	12 Square Feet

**General Comments**

**Span 2 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SPAN 2 BEAM. 1 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 2 Far Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 2 BEAM. 1 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 2 Beam 8****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	33	32	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	SPALL 7" X 7" X 3/4" DEEP REBAR EXPOSED BOTTOM FACE, 8' FROM BENT 1 END	2	1	1 Feet

**General Comments****Span 2 Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	33	24	9	0	0 Feet
515	Steel Protective Coating	191	179	0	0	12 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 2 END. REPAIR SECTION 24" LONG X 6" IN WEB.	2	3	Feet
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' ON WEB AND FLANGES, AT BENT 1 END.	2	6	Feet



<b>515</b>	Effectiveness (Steel Protective Coatings)	PAIN'T HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	12	12	Square Feet
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**General Comments****Span 2 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SPAN 2 BEAM. 11 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 2 Far Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 2 BEAM. 11 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 3 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**Span 3 Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	2,093	2,093	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

RECENTLY REPAVED

**Span 3 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	41	0	41	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments****Span 3 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	41	40	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments****Span 3 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	40	37	3	0	0 Feet
515	Steel Protective Coating	237	231	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 2 END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	PAIN T HAS FAILED WITH BARE METAL EXPOSED ON BEAM END AT BENT 2.	4	6	6 Square Feet

**General Comments****Span 3 Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SPAN 3 BEAM. 1 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments**

**Span 3****Beam 5****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	40	39	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Exposed Rebar	SPALLS (2) 6" X 6" AND 6" WIDE X 14" HIGH BOTH 1/2" DEEP REBAR EXPOSED AT RIGHT SIDE, BENT 3 END.	2	1	1 Feet

**General Comments****Span 3****Beam 6****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	40	36	0	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	SPALLS (3) UP TO 10" WIDE X 4" LONG X 1" DEEP WITH REBAR EXPOSED 8' FROM BENT 2	3	3	3 Feet
110	Delamination/Spall	SPALLS (2) 10" WIDE X 8" LONG X 3/4" DEEP REBAR EXPOSED , 6' FROM BENT 3 END AND 7" WIDE X 12" LONG X 1" DEEP AT BENT 3 END.	3	1	1 Feet

**General Comments****Span 3****Beam 7****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	40	36	0	4	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	SPALLS (3) UP TO 10" WIDE X 4" LONG X 1/2" DEEP WITH REBAR EXPOSED AT MID-SPAN.	3	4	4 Feet

**General Comments****Span 3****Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	40	30	10	0	0 Feet
515	Steel Protective Coating	237	217	0	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG BEGINNING 5' ON WEB AND FLANGES, AT BENT 2 END.	2	5	Feet
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 5' ON WEB AND FLANGES, AT BENT 3 END. REPAIR PLATE SECTION IN WEB 36" LONG X 6" HIGH.	2	5	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	20	20 Square Feet

**General Comments**

**Span 3 Near Bearing**  
**Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SPAN 3 BEAM. 11 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments**

**Span 3 Far Bearing**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 3 BEAM. 11 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments**

**Span 4 Expansion Joint**  
**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**Span 4 Wearing Surface**  
**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,679	1,679	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

RECENTLY REPAVED

**Span 4 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	33	0	33	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments****Span 4 Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	32	29	3	0	0 Feet
515	Steel Protective Coating	190	184	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ON BOTTOM FLANGE 9" WIDE X 3' LONG AND BOTTOM 3" HIGH OF WEB AT BENT 4 END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	6	6 Square Feet

**General Comments****Span 4 Far Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 4 BEAM. 1 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 4 Beam 6****Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	32	30	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	DELAMINATED AREA 4" WIDE X 18" LONG WITH .063" SEPARATION, BOTTOM LEFT FACE AT BENT 4 END.	3	2	2 Feet

**General Comments**

**Span 4****Beam 11****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	32	23	9	0	0 Feet
515	Steel Protective Coating	190	184	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH WEB REPAIR PLATE 36" LONG X 6" HIGH AT BENT 4 END.	2	3	Feet
107	Corrosion	LOSS OF SECTION .03" WITH .72" REMAINING BOTTOM FLANGE 9" WIDE X 3' LONG AT BENT 4 END.	2	6	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM ENDS.	4	6	6 Square Feet

**General Comments****Span 4****Near Bearing****Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	SPAN 4 BEAM. 11 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 4****Far Bearing****Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable Bearing	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	SPAN 4 BEAM. 11 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1 Square Feet

**General Comments****Span 5****Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**Span 5 Wearing Surface**  
**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,696	1,696	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

RECENTLY REPAVED

**Span 5 Left Bridge Rail**  
**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	33	0	33	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

**Span 5 Right Bridge Rail**  
**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	33	0	33	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

**Span 5 Beam 1**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	33	30	3	0	0 Feet
515	Steel Protective Coating	192	186	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ON BOTTOM FLANGE 9" WIDE X 3' LONG AND BOTTOM 3" HIGH OF WEB AT BENT 4 END.	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM END AT BENT 4.	4	6	6 Square Feet

**General Comments**

**Span 5 Near Bearing**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SPAN 5 BEAM. 1 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1	Square Feet

**General Comments**

**Span 5 Beam 7**  
**Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	33	32	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Delamination/Spall	SPALL 9" X 9" X 2" DEEP WITH REBAR EXPOSED, AT GIRDER 7 BENT 4 END.	3	1	1	Feet

**General Comments**

**Span 5 Beam 11**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	33	30	0	3	0	Feet
515	Steel Protective Coating	192	187	0	0	5	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	LOSS OF SECTION .03" WITH .72" REMAINING BOTTOM FLANGE 9" WIDE X 3' LONG AT BENT 4 END.	3	3	3	Feet
515	Effectiveness (Steel Protective Coatings)	PAINT HAS FAILED WITH BARE METAL EXPOSED ON BEAM END AT BENT 4.	4	5	5	Square Feet

**General Comments**

**Span 5 Near Bearing**  
**Movable Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SPAN 5 BEAM. 11 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING HAS FAILED WITH BARE METAL EXPOSED.	4	1	1	Square Feet

**General Comments**



**Span 5 Expansion Joint****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	84	84	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**General Comments**

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

**End Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	94	88	6	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	HORIZONTAL CRACKING .063" OPEN UNDER BEAMS 9 AND 10.	2	6	Feet

**General Comments****Bent 1 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	84	70	3	11	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	HORIZONTAL CRACK UP TO .03" OPEN 3' LONG UNDER BEAM 7 ON NORTH FACE.	3	3	3 Feet
234	Delamination/Spall	DELAMINATED AREA 24" WIDE X 7" HIGH ON RIGHT END.	3	1	1 Feet
234	Delamination/Spall	DELAMINATED AREA 36" WIDE X 19" HIGH WITH .125" SEPARATION UNDER BEAM 5 ON SOUTH FACE.	3	5	5 Feet
234	Exposed Rebar	SPALL 24" WIDE X 12" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR UNDER BEAM 9 SOUTH FACE. (PRIORITY MAINTENANCE)	3	2	2 Feet
234	Cracking (RC and Other)	HORIZONTAL CRACKING .03" OPEN 3' LONG UNDER BEAM 10 ON NORTH FACE.	2	3	Feet

**General Comments****Bent 2 Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	84	77	2	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	SPALLS (3) (2) 6" X 6" X 1/2" DEEP AND 11" WIDE X 5" LONG X 3/4" DEEP WITH REBAR EXPOSED OVER PILE 6.	3	1	1 Feet
234	Patched Area	DELAMINATED PATCH 33" WIDE X 20" HIGH UNDER BEAM 6 ON SOUTH FACE.	3	3	3 Feet

234	Patched Area	PATCHWORK ON LEFT END HAS MAP CRACKING 063" OPEN AND DELAMINATED 10" WIDE X 24" HIGH.	3	1	1	Feet
234	Patched Area	PATCHED AREA 30" WIDE X 18" HIGH UNDER BEAM 7 ON SOUTH FACE.	2	2		Feet

**General Comments****Bent 3****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	84	61	0	18	5 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	SPALL 30" WIDE X 10" HIGH X 3-1/2" DEEP BETWEEN PILES 10 AND 11 ON NORTH FACE. (PRIORITY MAINTENANCE)	4	5	5 Feet
234	Delamination/Spall	DELAMINATED AREA 12" WIDE X 6" HIGH ON RIGHT END.	3	1	1 Feet
234	Delamination/Spall	DELAMINATED AREA 33" WIDE X 13" HIGH WITH .125" SEPARATION UNDER BEAM 6 ON NORTH FACE.	3	4	4 Feet
234	Delamination/Spall	DELAMINATED AREA 36" WIDE X 16" HIGH WITH .063" SEPARATION UNDER BEAM 7 ON SOUTH FACE.	3	3	3 Feet
234	Delamination/Spall	DELAMINATED AREA 4' WIDE X 30" HIGH WITH OLD REPAIR FORMWORK IN PLACE ON SOUTH FACE UNDER BAY 10.	3	4	4 Feet
234	Delamination/Spall	DELAMINATED AREA 45" WIDE X 18" HIGH WITH .125" SEPARATION UNDER BEAM 7 ON NORTH FACE.	3	4	4 Feet
234	Cracking (RC and Other)	DIAGONAL HAIRLINE CRACK UNDER BEAM 6, 1' LONG, SOUTH FACE.	1	1	Feet

**General Comments****Bent 4****Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	84	62	13	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	HORIZONTAL CRACKING UP TO .063" OPEN 3' LONG BETWEEN BEAMS 9 AND 10 ON NORTH FACE.	3	3	Feet
234	Delamination/Spall	DELAMINATED AREA 11" WIDE X 24" HIGH WITH .125" SEPARATION UNDER BEAM 8 ON NORTH FACE.	3		1 Feet
234	Delamination/Spall	DELAMINATED AREA 30" WIDE X 9" HIGH UNDER BEAM 8 ON SOUTH FACE.	3	3	3 Feet
234	Exposed Rebar	SPALL 28" WIDE X 18" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR BETWEEN PILES 3 AND 4 ON NORTH FACE. HORIZONTAL CRACK .04" OPEN EXTENDING FROM SPALL 3' LONG. (PRIORITY MAINTENANCE)	3	3	3 Feet
234	Cracking (RC and Other)	HORIZONTAL CRACKING .03" OPEN 2' LONG UNDER BEAM 1 ON NORTH FACE.	2	1	Feet
234	Cracking (RC and Other)	HORIZONTAL CRACKING .03" OPEN UNDER BEAMS 5 THRU 7 ON SOUTH FACE.	2	9	Feet
234	Patched Area	PATCHED AREA 30" WIDE X 14" HIGH AT BEAM 5 ON NORTH FACE.	2	1	Feet
234	Patched Area	PATCHED AREA 36" WIDE X 14" HIGH UNDER BEAM 6 ON NORTH FACE.	2	1	Feet
234	Patched Area	PATCHED AREA 49" WIDE X 17" HIGH BETWEEN GIRDERS 7 AND 8 ON NORTH FACE.	2	1	Feet

**General Comments**



## Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 2	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	33
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	33
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	84
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1692
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2315
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	40
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	40
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	40
Span 3	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	40
Span 3	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	40
Span 3	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	40
Span 3	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	40
Span 3	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	40
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	40
Span 3	Beam 10	Plate Girder	Steel Open Girder/Beam	40
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	40
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Expansion Joint	Standard Joint	Pourable Joint Seal	84
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2093
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1858
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	32
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	32
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	32
Span 4	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	32
Span 4	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	32
Span 4	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	32
Span 4	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	32
Span 4	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	32
Span 4	Beam 9	Plate Girder	Steel Open Girder/Beam	32
Span 4	Beam 10	Plate Girder	Steel Open Girder/Beam	32
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	32
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Expansion Joint	Standard Joint	Pourable Joint Seal	84
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1679
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Movable Bearing	Movable Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1877
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 5	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 5	Beam 6	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 5	Beam 7	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 5	Beam 8	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	33
Span 5	Beam 9	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 10	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 11	Plate Girder	Steel Open Girder/Beam	33
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Expansion Joint	Standard Joint	Pourable Joint Seal	84
Span 5	Expansion Joint	Standard Joint	Pourable Joint Seal	84
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1696
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
Bent 1	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 7	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 8	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 9	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 10	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 11	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	94
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
Bent 2	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 7	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 8	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 9	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 10	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 11	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	94
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
Bent 3	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Bent 3	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 7	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 8	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 9	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 10	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 3	Pile 11	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	84
Bent 4	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 7	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 8	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 9	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 10	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Pile 11	Prestressed Concrete Pile	Prestressed Concrete Pile	1



# General Inspection Notes

Span 1                      Expansion Joint

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

---

Span 1                      Wearing Surface  
RECENTLY REPAVED

---

Span 2                      Expansion Joint

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

---

Span 2                      Wearing Surface  
RECENTLY REPAVED

---

Span 3                      Expansion Joint

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

---

Span 3                      Wearing Surface  
RECENTLY REPAVED

---

Span 4                      Expansion Joint

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

---

Span 4                      Wearing Surface  
RECENTLY REPAVED

---

Span 5                      Expansion Joint

6/7/18 RECENTLY PAVED OVER. NOT VISIBLE.

---

Span 5                      Wearing Surface  
RECENTLY REPAVED

---

# National Bridge and NC Inspection Items

Structure Number: 060003

Inspection Date: 06/07/2018

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	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	8996	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C	P	12	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		
Superstructure Paint Code		A		

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

## Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	16
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: 060003

Inspection Date: 06/07/2018

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<b>Item</b>	Deck Debris	<b>Grade</b>	F	<b>Maint Code</b>	3376	<b>Qty.</b>	8996
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**Details** DECK DEBRIS ALONG BOTH CURBS.

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<b>Item</b>	Drainage System	<b>Grade</b>	F	<b>Maint Code</b>	3332	<b>Qty.</b>	0
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**Details** SEE DECK DEBRIS

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<b>Item</b>	Slope Protection	<b>Grade</b>	P	<b>Maint Code</b>	3352	<b>Qty.</b>	12
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**Details** NORTH EARTH SLOPE UNDERMINING UNDER CAP AT BEAM 3: 9" HIGH VERTICAL X 6' WIDE X 26" DEEP (LATERAL).

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<b>Item</b>	Utilities	<b>Grade</b>	G	<b>Maint Code</b>		<b>Qty.</b>	0
-------------	-----------	--------------	---	-------------------	--	-------------	---

**Details** LEFT SIDE- 6-PVC PIPES



Bent 4 Cap 1: SPALL 28" WIDE X 18" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR BETWEEN PILES 3 AND 4 ON NORTH FACE. HORIZONTAL CRACK .04" OPEN EXTENDING FROM SPALL 3' LONG. (PRIORITY MAINTENANCE)



Bent 4 Cap 1: PATCHED AREA 30" WIDE X 14" HIGH AT BEAM 5 ON NORTH FACE.



Bent 4 Cap 1: PATCHED AREA 36" WIDE X 14" HIGH UNDER BEAM 6 ON NORTH FACE.





NORTH EARTH SLOPE UNDERMINING UNDER CAP AT BEAM 3: 9" HIGH VERTICAL X 6' WIDE X 26" DEEP (LATERAL).



Span 5 Beam 7: SPALL 9" X 9" X 2" DEEP WITH REBAR EXPOSED, AT GIRDER 7 BENT 4 END.



Bent 4 Cap 1: DELAMINATED AREA 11" WIDE X 24" HIGH WITH .125" SEPARATION UNDER BEAM 8 ON NORTH FACE.



Bent 4 Cap 1: PATCHED AREA 49" WIDE X 17" HIGH BETWEEN GIRDEERS 7 AND 8 ON NORTH FACE.





Span 5 Beam 11 Near Bearing: SPAN 5 BEAM. 11 N/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.



Span 4 Beam 11 Near Bearing: SPAN 4 BEAM. 11 F/B: LOSS OF SECTION .063" ALONG PLATE EDGES WITH PACK RUST BETWEEN PLATES.





Span 5 Beam 11: LOSS OF SECTION .03" WITH .72" REMAINING BOTTOM FLANGE 9" WIDE X 3' LONG AT BENT 4 END.



Span 4 Beam 11: LOSS OF SECTION .03" WITH .72" REMAINING BOTTOM FLANGE 9" WIDE X 3' LONG AT BENT 4 END.



Bent 4 Cap 1: HORIZONTAL CRACKING UP TO .063" OPEN 3' LONG BETWEEN BEAMS 9 AND 10 ON NORTH FACE.



Bent 4 Cap 1: HORIZONTAL CRACKING .03" OPEN 2' LONG UNDER BEAM 1 ON NORTH FACE.





Span 4 Beam 1: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ON BOTTOM FLANGE 9" WIDE X 3' LONG AND BOTTOM 3" HIGH OF WEB AT BENT 4 END.



Span 5 Beam 1: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ON BOTTOM FLANGE 9" WIDE X 3' LONG AND BOTTOM 3" HIGH OF WEB AT BENT 4 END.



Bent 3 Cap 1: DELAMINATED AREA 33" WIDE X 13" HIGH WITH .125" SEPARATION UNDER BEAM 6 ON NORTH FACE.



Bent 3 Cap 1: DELAMINATED AREA 45" WIDE X 18" HIGH WITH .125" SEPARATION UNDER BEAM 7 ON NORTH FACE.

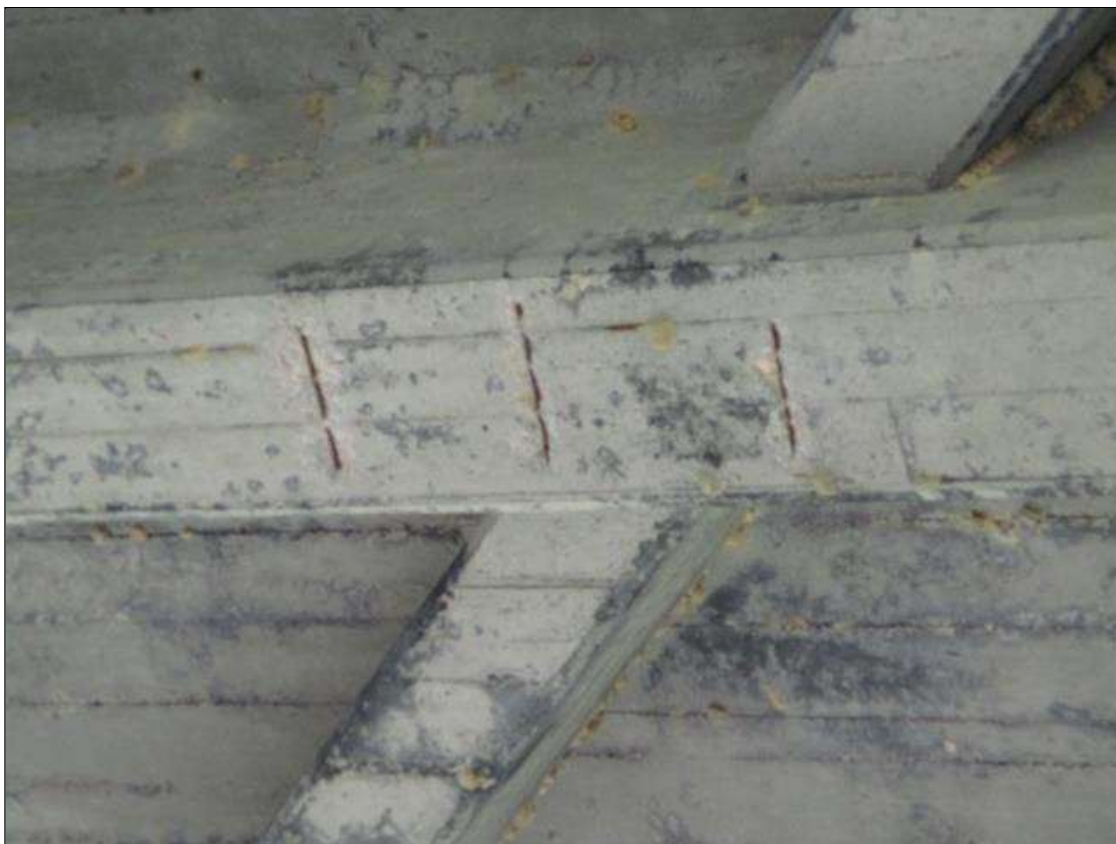




Bent 3 Cap 1: SPALL 30" WIDE X 10" HIGH X 3-1/2" DEEP BETWEEN PILES 10 AND 11 ON NORTH FACE.  
(PRIORITY MAINTENANCE)



Span 3 Beam 6: SPALLS (3) UP TO 10" WIDE X 4" LONG X 1" DEEP WITH REBAR EXPOSED 8' FROM BENT 2



Span 3 Beam 7: SPALLS (3) UP TO 10" WIDE X 4" LONG X 1/2" DEEP WITH REBAR EXPOSED AT MID-SPAN.



Bent 2 Cap 1: SPALLS (3) (2) 6" X 6" X 1/2" DEEP AND 11" WIDE X 5" LONG X 3/4" DEEP WITH REBAR EXPOSED OVER PILE 6.





Bent 2 Cap 1: PATCHWORK ON LEFT END HAS MAP CRACKING 063" OPEN AND DELAMINATED 10" WIDE X 24" HIGH.



Bent 2 Cap 1: DELAMINATED PATCH 33" WIDE X 20" HIGH UNDER BEAM 6 ON SOUTH FACE.



Bent 2 Cap 1: PATCHED AREA 30" WIDE X 18" HIGH UNDER BEAM 7 ON SOUTH FACE.



Bent 1 Cap 1: SPALL 24" WIDE X 12" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR UNDER BEAM 9 SOUTH FACE. (PRIORITY MAINTENANCE)





Bent 1 Cap 1: DELAMINATED AREA 36" WIDE X 19" HIGH WITH .125" SEPARATION UNDER BEAM 5 ON SOUTH FACE.



Bent 1 Cap 1: HORIZONTAL CRACKING .063" OPEN UNDER BEAMS 9 AND 10.





Span 1 Beam 11: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 18" HIGH IN WEB AT BENT 1 END.



Span 2 Beam 11: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' ON WEB AND FLANGES, AT BENT 1 END.





Span 2 Beam 11: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 2 END. REPAIR SECTION 24" LONG X 6" IN WEB.



Span 3 Beam 11: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG BEGINNING 5' ON WEB AND FLANGES, AT BENT 2 END.





Span 4 Beam 11: FRECKLE SURFACE RUST WITH WEB REPAIR PLATE 36" LONG X 6" HIGH AT BENT 4 END.



Span 3 Beam 11: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 5' ON WEB AND FLANGES, AT BENT 3 END. REPAIR PLATE SECTION IN WEB 36" LONG X 6" HIGH.



Span 1 Beam 1: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 6" HIGH IN WEB AT BENT 1 END.



Span 2 Beam 1: FRECKLE SURFACE RUST WITH NO MEASURABLE LOSS OF SECTION ALONG LAST 3' AT BENT 1 END. REPAIR SECTION 30" LONG X 6" HIGH IN WEB AT BENTS 1 AND 2 ENDS.





Span 1 Deck: SPALL 24" LONG X 18" WIDE X 4" DEEP WITH 10% LOSS OF SECTION ON EXPOSED REBAR AT BENT 1 END OVERHANG. (PRIORITY MAINTENANCE)



Bent 1 Cap 1: DELAMINATED AREA 24" WIDE X 7" HIGH ON RIGHT END.



Bent 1 Cap 1: HORIZONTAL CRACKING .03" OPEN 3' LONG UNDER BEAM 10 ON NORTH FACE.



Bent 1 Cap 1: HORIZONTAL CRACK UP TO .03" OPEN 3' LONG UNDER BEAM 7 ON NORTH FACE.





Span 2 Beam 8: SPALL 7" X 7" X 3/4" DEEP REBAR EXPOSED BOTTOM FACE, 8' FROM BENT 1 END



Span 3 Beam 5: SPALLS (2) 6" X 6" AND 6" WIDE X 14" HIGH BOTH 1/2" DEEP REBAR EXPOSED AT RIGHT SIDE, BENT 3 END.





Span 3 Beam 6: SPALLS (2) 10" WIDE X 8" LONG X 3/4" DEEP REBAR EXPOSED , 6' FROM BENT 3 END AND 7" WIDE X 12" LONG X 1" DEEP AT BENT 3 END.



Bent 3 Cap 1: DELAMINATED AREA 36" WIDE X 16" HIGH WITH .063" SEPARATION UNDER BEAM 7 ON SOUTH FACE.



Bent 3 Cap 1: DELAMINATED AREA 4' WIDE X 30" HIGH WITH OLD REPAIR FORMWORK IN PLACE ON SOUTH FACE UNDER BAY 10.



Bent 3 Cap 1: DELAMINATED AREA 12" WIDE X 6" HIGH ON RIGHT END.





Span 4 Beam 6: DELAMINATED AREA 4" WIDE X 18" LONG WITH .063" SEPARATION, BOTTOM LEFT FACE AT BENT 4 END.



END BENT 2 LOOKING NORTH



BENT 3 LOOKING SOUTH





SUPERSTRUCTURE SPAN 4



SUPERSTRUCTURE SPAN 5





BENT 4 LOOKING NORTH



LOOKING WEST





SUPERSTRUCTURE SPAN 3



SUPERSTRUCTURE SPAN 2





BENT 2 LOOKING NORTH



LOOKING EAST





BENT 1 LOOKING SOUTH



END BENT 1 LOOKING SOUTH



SUPERSTRUCTURE SPAN 1



TYPICAL BEARING BEAMS 1-3 AND 9-11.





TYPICAL BEARING AT END BENTS BEAMS 1-3 AND 9-11.



UTILITY LEFT SIDE 6- 4" PVC PIPES.





GUARDRAIL POST SPACING 6.25'



SOUTH APPROACH LOOKING NORTH





LEFT RAIL SIMILAR RIGHT RAIL



GUARDRAIL POST SPACING 1.55' AT BRIDGE





GUARDRAIL CONNECTION



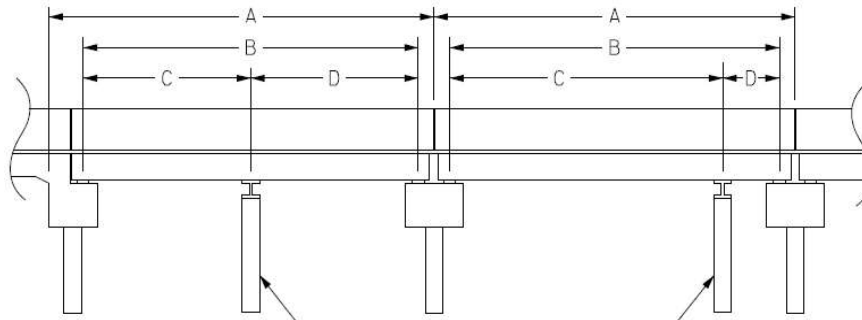
NORTH APPROACH LOOKING SOUTH

# Structure Data Worksheet

## Span Profile

County: **BEAUFORT**

Structure Number: **060003**



A: SPAN LENGTH  
 B: BEARING TO BEARING  
 C: DISTANCE FROM NEAR BEARING  
 D: DISTANCE TO FAR BEARING

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	32.500	31.000			
2	32.420	31.000			
3	40.080	38.680			
4	32.170	30.770			
5	32.500	31.000			

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

Run Date: 07/17/2018

**IDENTIFICATION**

(1) STATE NAME -NORTH CAROLINA BRIDGE **060003**  
 (8) STRUCTURE NUMBER(FEDERAL) 00000000130003  
 (5) INVENTORY ROUTE (ON/UNDER) - ON 21000170  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1  
 (3) COUNTY CODE 13 (4) PLACE CODE 0  
 (6) FEATURE INTERSECTED - NORFOLK SOUTHERN  
 (7) FACILITY CARRIED US17  
 (9) LOCATION 2.0 MI SW JCT. US264  
 (11)MILEPOINT 0  
 (16)LAT 35° 31' 49.56" (17)LONG 77° 4' 24.12"  
 (98)BORDER BRIDGE STATE CODE PCT SHARE  
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 48.86  
 STATUS = Functionally Obsolete

**CLASSIFICATION** **CODE**

(112)NBIS BRIDGE SYSTEM - YES  
 (104)HIGHWAY SYSTEM Is not on NHS  
 (26) FUNCTIONAL CLASS - Minor Arterial 16  
 (100)STRAHNET HIGHWAY - Non-Interstate STRAHNET Route 2  
 (101)PARALLEL STRUCTURE - No Parallel Structure N  
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2  
 (103)TEMPORARY STRUCTURE -  
 (110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0  
 (20) TOLL On Free Road 3  
 (31) MAINTAIN - State Highway Agency 01  
 (22) OWNER - State Highway Agency 01  
 (37) HISTORICAL SIGNIFICANCE - Not Eligible 5

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE MAIN: Concrete  
 TYPE - Tee Beam CODE 104  
 (44) STRUCTURE TYPE APPR :  
 TYPE - CODE 000  
 (45) NUMBER OF SPANS IN MAIN UNIT 5  
 (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

**CONDITION** **CODE**

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

**LOAD RATING AND POSTING** **CODE**

(31) DESIGN LOAD H 20 4  
 (63) OPERATING RATING METHOD - Load Factor 1  
 (64) OPERATING RATING - HS-27 48  
 (65) INVENTORY RATING METHOD - Load Factor 1  
 (66) INVENTORY RATING - HS-16 29  
 (70) BRIDGE POSTING - No Posting Required 5  
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A  
 DESCRIPTION - Open, No Restriction

**AGE AND SERVICE**

(27) YEAR BUILT 1941  
 (106)YEAR RECONSTRUCTED 1963  
 (42) TYPE OF SERVICE : ON - Highway  
 UNDER - Railroad CODE 12  
 (28) LANES: ON STRUCTURE 4 UNDER STRUCTURE 0  
 (29) AVERAGE DAILY TRAFFIC 13000  
 (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6%  
 (19) BYPASS OR DETOUR LENGTH 21 MI

**APPRAISAL** **CODE**

(67) STRUCTURAL EVALUATION 5  
 (68) DECK GEOMETRY 2  
 (69) UNDERCLEARANCES,VERTI & HORIZ 5  
 (71) WATERWAY ADEQUACY N  
 (72) APPROACH ROADWAY ALIGNMENT 8  
 (36) TRAFFIC SAFETY FEATURES 0000  
 (113)SCOUR CRITICAL BRIDGES N

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN 39 FT  
 (49) STRUCTURE LENGTH 173 FT  
 (50)CURB OR SIDEWALK: LEFT 1.5815 FT RIGHT 1.5815 FT  
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 52.167 FT  
 (52) DECK WIDTH OUT TO OUT 57.42 FT  
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 69 FT  
 (33) BRIDGE MEDIAN - No Median CODE 0  
 (34) SKEW 51° (35) STRUCTURE FLARED 0  
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 52.167 FT  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT  
 (54) MIN VERT UNDERCLEAR REF Railroad 21.708 FT  
 (55) MIN LAT UNDERCLEAR RT REF Railroad 11.583 FT  
 (56) MIN LAT UNDERCLEAR LT REF - 000 FT

**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 26000 (115) YEAR FUTURE ADT 2025

**INSPECTIONS**

(90) INSPECTION DATE 06/07/2018  
 (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

**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: 060003

County: BEAUFORT

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							
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
3	NORTHERN NS RR	80000000											R	21.71	11.58		9			

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: 07/17/2018

COUNTY : BEAUFORT      DIVISION : 2      DISTRICT : 1      STRUCTURE NUMBER : 060003      LENGTH : 173 FEET

ROUTE CARRIED : US17      FEATURE INTERSECTED : NORFOLK SOUTHERN

LOCATED : 2.0 MI SW JCT. US264      BRIDGE NAME :      CITY :

FUNC. CLASS : 16      SYST.ON : FA      SYST.UNDER : NFA      ADT & YR : 13000 2013      RAIL TYPE : LT 71 RT 71

BUILT : 1941      BY : SHC      PROJ : 1022      FED.AID PROJ :      DESIGN LOAD : H 20

REHAB : 1963      BY : SHC      PROJ : 8.11028      ALIGNMENT : TAN.      SKEW : 39      LANES : ON 4 UNDER 0

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

SUPERSTRUCTURE : RC DECK GIRDER W/ I-BEAMS

SUBSTRUCTURE : EBTS&IBTS:RC CAPS/RC PILES

SPANS : 1@35.417';1@32.417';1@40.083';1@32.167';1@33.25'

BEAMS OR GIRDERS : 5 LINES RCDG/WIDENED W/6 LINES VAR. SIZE I-BEAMS

FLOOR : 6.75" RC/4" AWS      ENCROACHMENT :      DECK (OUT TO OUT) : 57.42 FT

CLEAR ROADWAY : 52.167 FT      BETWEEN RAILS : 55.33 FT      SIDEWALK OR CURB : LT 1.5815 FT RT 1.5815 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-16      OPE.RTG. : HS-27      CONTR.MEMBER : SpanC (Orig)      POSTED : SV      TTST      DATE

SYSTEM : Primary U.S. Route      GREEN LINE ROUTE : Y

**UNDER ROUTES AND CLEARANCES**

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
3	NORTHERN NS RR	0	21.7080	0		11.5830

*Note: All measurements are in feet.*

REMARKS :





# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 060003

County BEAUFORT

Date: 06/07/2018

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3326	Maintain Concrete Deck	SF	3	Span 1 Deck: SPALL 24" LONG X 18" WIDE X 4" DEEP WITH 10% LOSS OF SECTION ON EXPOSED REBAR AT BENT 1 END OVERHANG.	
 3348	Maintain Concrete Substructure Components	LF	2	Bent 1 Cap 1: SPALL 24" WIDE X 12" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR UNDER BEAM 9 SOUTH FACE.	
 3348	Maintain Concrete Substructure Components	LF	5	Bent 3 Cap 1: SPALL 30" WIDE X 10" HIGH X 3-1/2" DEEP BETWEEN PILES 10 AND 11 ON NORTH FACE. (PRIORITY MAINTENANCE)	
 3348	Maintain Concrete Substructure Components	LF	3	Bent 4 Cap 1: SPALL 28" WIDE X 18" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR BETWEEN PILES 3 AND 4 ON NORTH FACE. HORIZONTAL CRACK .04" OPEN EXTENDING FROM SPALL 3' LONG. (PRIORITY MAINTENANCE)	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 060003

County BEAUFORT

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

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	3      SF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
06/07/2018	H.W. HICKS, JR.	
Details		
Span 1 Deck: SPALL 24" LONG X 18" WIDE X 4" DEEP WITH 10% LOSS OF SECTION ON EXPOSED REBAR AT BENT 1 END OVERHANG.		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
06/08/2018	H.W. HICKS, JR.	
Details		
Bent 1 Cap 1: SPALL 24" WIDE X 12" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR UNDER BEAM 9 SOUTH FACE.		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 060003                      County BEAUFORT

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	5            LF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
06/08/2018	H.W. HICKS, JR.	
Details		
Bent 3 Cap 1: SPALL 30" WIDE X 10" HIGH X 3-1/2" DEEP BETWEEN PILES 10 AND 11 ON NORTH FACE. (PRIORITY MAINTENANCE)		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	3            LF
Location:		
Bent/Span No.		
Priority Level		Status
Priority Maintenance		Division Bridge Maintenance Notification Received
Submitted Date:	Submitted By:	Assisted By:
06/08/2018	H.W. HICKS, JR.	
Details		
Bent 4 Cap 1: SPALL 28" WIDE X 18" HIGH X 4" DEEP WITH 10% LOSS OF SECTION AT EXPOSED REBAR BETWEEN PILES 3 AND 4 ON NORTH FACE.    HORIZONTAL CRACK .04" OPEN EXTENDING FROM SPALL 3' LONG. (PRIORITY MAINTENANCE)		

# Bridge Inspection Field Sketch



Roadway	50ft Wide	4 Paved Lanes	Looking South
Left Shoulder	9ft Wide	9ft Paved	
Right Shoulder	9.5ft Wide	9.5ft Paved	
Left Guardrail	9ft from road		
Right Guardrail	9.5ft from road		

NOTE: MEASUREMENTS TAKEN APPROXIMATELY 500FT NORTH OF END BENT 2

NOTE: TURN LANE TAPERS FROM BRIDGE AT SOUTH APPROACH

VERIFIED 6/7/18 H.W. HICKS, JR.

**Title**

APPROACH ROADWAY

**Description**

LOOKING SOUTH

Bridge No: 060003

Drawn By: Z. VAN BRUNT

Date: 6/16/2016

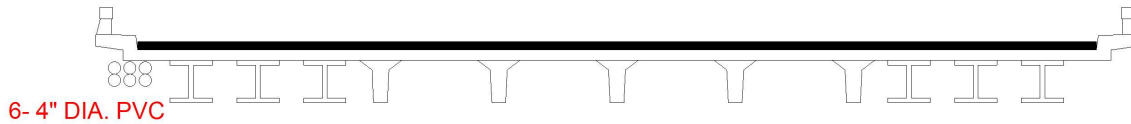
File Name: S0050002278



# Bridge Inspection Field Sketch

RECENTLY REPAVED

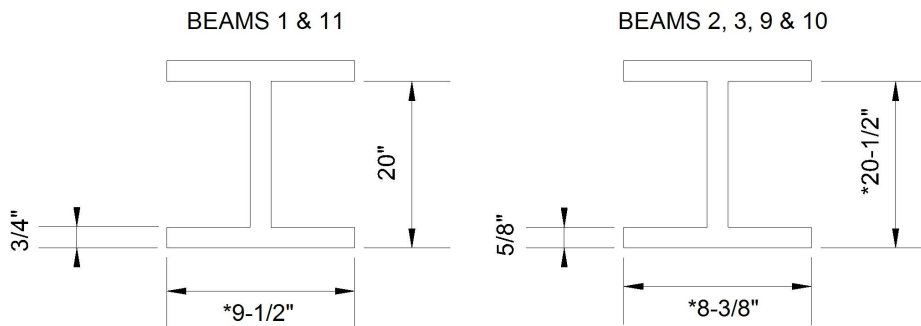
Deck Width/Out to Out	57.42ft	Between Rails	55.33ft
Clear Roadway	52.167ft	Wearing Surface	.333FT**
Median Width		Median Height	
Curb Height		Left	0.80ft
		Right	0.550ft
Sidewalk Width		Left	2.71ft
		Right	2.71ft
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	0.83ft
		Right	0.83ft
Top of Rail to Deck/Wearing Surface		Left	2.458ft
		Right	2.458ft
Bridge Rail		Left	Type 7
		Right	Type 7



Measurements for Span #	1	Measurements Similar For Spans	2, 4 & 5
Deck Thickness	0.562	Left Overhang	3.21
Top of Rail to Bottom of Beam	4.62	Right Overhang	3.21

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	4ft	Widening - Steel Beams
2	Steel I Beam	4ft	Widening - Steel Beams
3	Steel I Beam	3.33ft	Widening - Steel Beams
4	RC Deck Girder	7.083ft	Original - RC Deck Girder (18"W x 19"H)
5	RC Deck Girder	7.083ft	Original - RC Deck Girder (18"W x 19"H)
6	RC Deck Girder	7.083ft	Original - RC Deck Girder (18"W x 19"H)
7	RC Deck Girder	7.083ft	Original - RC Deck Girder (18"W x 19"H)
8	RC Deck Girder	3.33ft	Original - RC Deck Girder (18"W x 19"H)
9	Steel I Beam	4ft	Widening - Steel Beams
10	Steel I Beam	4ft	Widening - Steel Beams
11	Steel I Beam		Widening - Steel Beams

\*\*.333ft IS AN AVERAGE AWS THICKNESS



\*REVISED BY: H. BONILLA 08/10/2016

REVISED 6/7/18 H.W. HICKS, JR.

**Title**

SUPERSTRUCTURE - SPANS 1, 2, 4, & 5

**Description**

DATA WORKSHEET

Bridge No: 060003

Drawn By: Z. VAN BRUNT

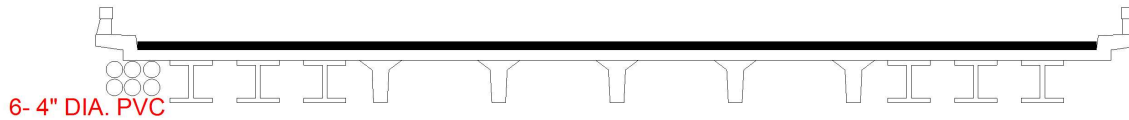
Date: 6/16/16

File Name: S0050002279

# Bridge Inspection Field Sketch

RECENTLY REPAVED

Deck Width/Out to Out	*57.42ft	Between Rails	55.33ft
Clear Roadway	52.167ft	Wearing Surface	**0.333ft
Median Width		Median Height	
Curb Height		Left	0.80ft
		Right	0.550ft
Sidewalk Width		Left	*2.71ft
		Right	*2.71ft
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	*0.83ft
		Right	*0.83ft
Top of Rail to Deck/Wearing Surface		Left	2.458ft
		Right	2.458ft
Bridge Rail		Left	Type 7
		Right	Type 7

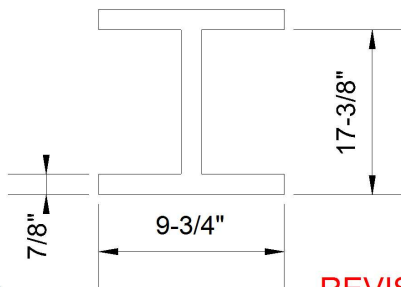


Measurements for Span #	3		
Deck Thickness	*0.562	Left Overhang	*3.21
Top of Rail to Bottom of Beam	*4.40	Right Overhang	*3.21

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	4ft	
2	Steel I Beam	4ft	
3	Steel I Beam	*3.33ft	
4	RC Deck Girder	*7.083ft	RC Deck Girder Size ( 18"W X 24"H )
5	RC Deck Girder	*7.083ft	RC Deck Girder Size ( 18"W X 24"H )
6	RC Deck Girder	*7.083ft	RC Deck Girder Size ( 18"W X 24"H )
7	RC Deck Girder	*7.083ft	RC Deck Girder Size ( 18"W X 24"H )
8	RC Deck Girder	*3.33ft	RC Deck Girder Size ( 18"W X 24"H )
9	Steel I Beam	4ft	
10	Steel I Beam	4ft	
11	Steel I Beam		

\*\* .333FT IS AVERAGE AWS THICKNESS

BEAMS 1, 2, 3, 9, 10 & 11



\*REVISED BY: H. BONILLA 08/10/2016

REVISED 6/7/18 H.W. HICKS, JR.

**Title**

060003 SUPERSTRUCTURE/ SPAN 3

**Description**

SECTION THRU.

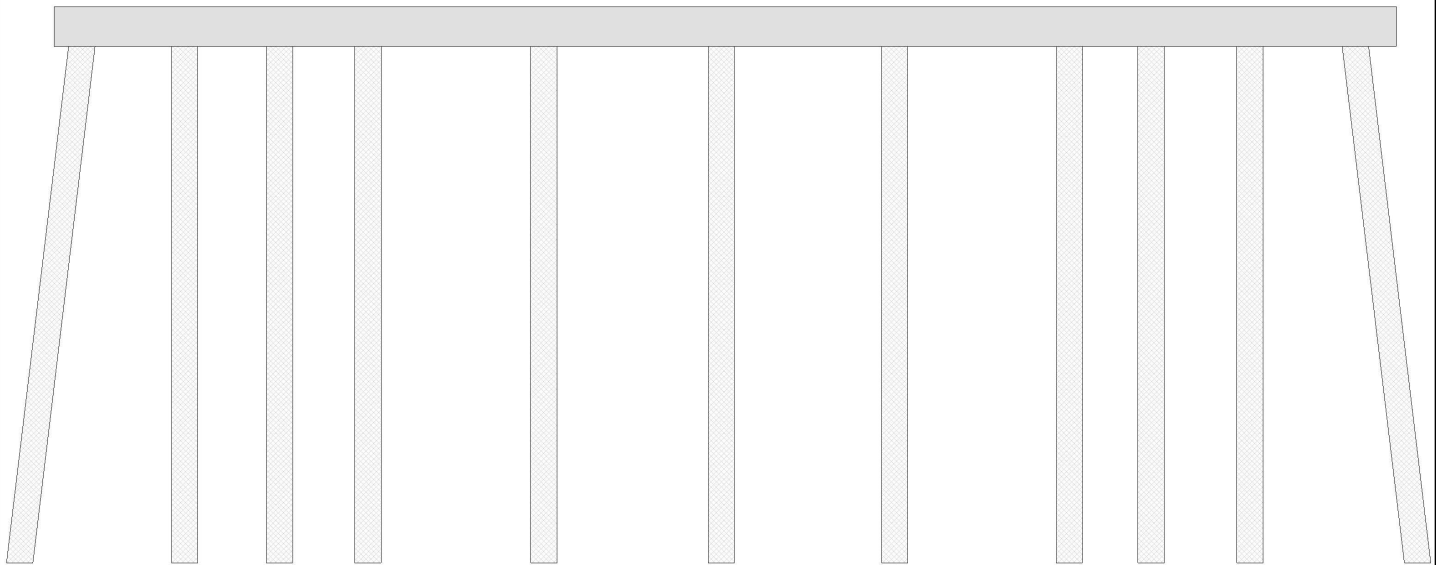
Bridge No: 060003

Drawn By: PD IPOCK

Date: 6/17/2014

File Name: S0050003377

# Bridge Inspection Field Sketch



<b>Cap Information</b>			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
84.000 ft.	3.333 ft.	2.500 ft.	1.750 ft.	1.750 ft.	2.167 ft.	2.167 ft.

<b>Subcap Information</b>			Material			
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.	

<b>Sill Information</b>			Material			
Length	Width	Height	*REVISED BY: H. BONILLA 08/10/2016			

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	6.5 ft.	1.667 ft.			*Battered	Yes	No	No	No
2	Concrete	6 ft.	1.667 ft.			Vertical	Yes	No	No	No
3	Concrete	5.583 ft.	1.667 ft.			Vertical	Yes	No	No	No
4	Concrete	11.125 ft.	1.667 ft.			Vertical	Yes	No	No	No
5	Concrete	11.208 ft.	1.667 ft.			Vertical	Yes	No	No	No
6	Concrete	10.958 ft.	1.667 ft.			Vertical	Yes	No	No	No
7	Concrete	11.042 ft.	1.667 ft.			Vertical	Yes	No	No	No
8	Concrete	5.167 ft.	1.667 ft.			Vertical	Yes	No	No	No
9	Concrete	6.25 ft.	1.667 ft.			Vertical	Yes	No	No	No
10	Concrete	6.667 ft.	1.667 ft.			Vertical	Yes	No	No	No
11	Concrete		1.667 ft.			*Battered	Yes	No	No	No

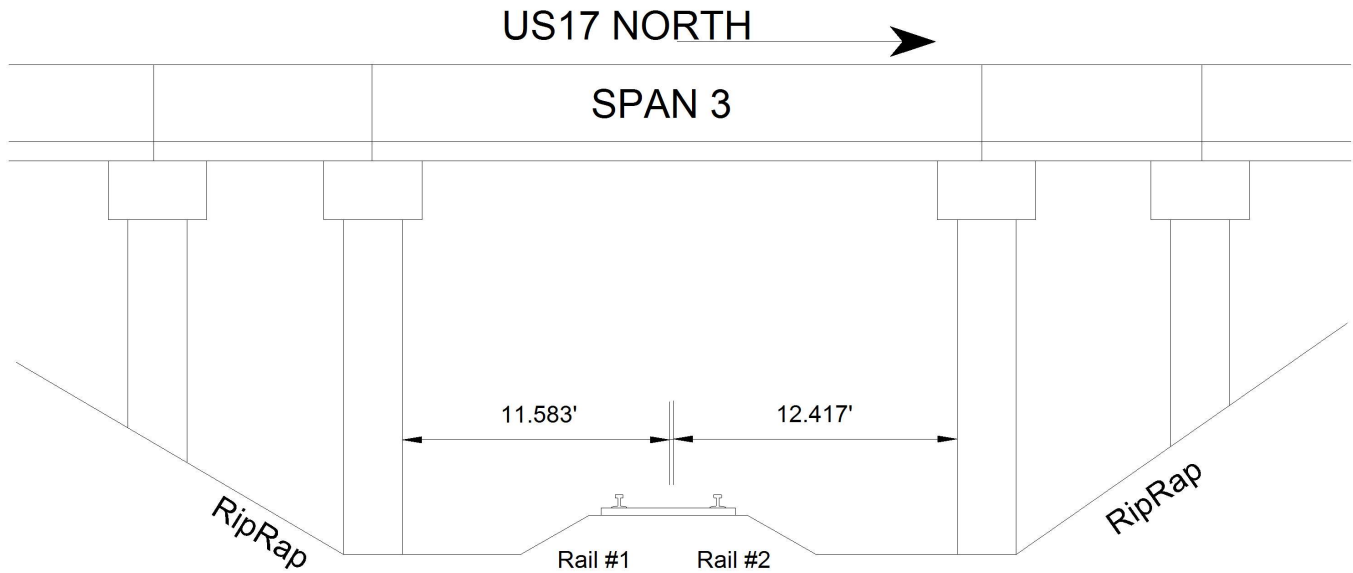
VERIFIED 6/7/18 H.W. HICKS, JR.

**Bent/Abutment #:** 4      **Similar Bents:** 1,2,3

<b>Title</b> 060003 SUBSTRUCTURE/ BT.4	<b>Description</b> SIMILAR INT. BTS.
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Bridge No: 060003	Drawn By: P.D. IPOCK	Date: 6-16-10	File Name: S0050002280
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# Bridge Inspection Field Sketch



Measurements Under Span 3 (of 5)			
Center of Left-most Tracks to Center of Right-most Tracks	5ft	1 set of tracks	Looking: WEST
Vertical Clearance	21.708ft	Measured from rail 2	at Beam # 8
Distance to Left Bent	11.583ft		
Distance to Left Toe of Slope			
Distance to Right Bent	12.417ft		
Distance to Right Toe of Slope			

VERIFIED 6/7/18 H.W. HICKS, JR.

\*REVISED BY: H. BONILLA 08/10/2016

**Title**

060003 VERTICAL CLEARANCES, SPAN 3

**Description**

LOOKING WEST.

Bridge No: 060003

Drawn By: P.D. IPOCK

Date: 6-17-2014

File Name: S0050002281