



NC DEPARTMENT OF TRANSPORTATION      ATTENTION:  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 08/26/2019

DIVISION: 6      COUNTY: ROBESON      STRUCTURE NUMBER: 770054      FREQUENCY: 24 MONTHS

FACILITY CARRIED: US301      MILE POST: \_\_\_\_\_

LOCATION: 0.7 MI E. JCT SR 1765

FEATURE INTERSECTED: I95

LATITUDE: 34° 43' 12.44"      LONGITUDE: 78° 59' 50.3"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS&INT.BTS:REINFORCED CONCRETE CAPS/PPC PILES

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

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

NBI GRADES:      DECK 7      SUPERSTRUCTURE 6      SUBSTRUCTURE 7      CULVERT N

POSTED SV: Not Posted      POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



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

DIRECTION OF INSPECTION      W-E

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

LOOKING EAST

INSPECTED BY MICHAEL R MEYER	SIGNATURE 	ASSISTED BY    STUART R HALL
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

11/20/2019

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE **770054**  
 (8) STRUCTURE NUMBER (FEDERAL) **1550054**  
 (5) INVENTORY ROUTE (ON/UNDER) ON **121003010**  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT **6**  
 (3) COUNTY CODE (FEDERAL) **155** (4) PLACE CODE **00000**  
 (6) FEATURE INTERSECTED **I95**  
 (7) FACILITY CARRIED **US301**  
 (9) LOCATION **0.7 MI E. JCT SR 1765**  
 (11) MILEPOINT **0.0**  
 (12) BASE HIGHWAY NETWORK **1**  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE **34° 43' 12.44"** (17) LONGITUDE **78° 59' 50.3"**  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING **85.**  
 STATUS = **Functionally Obsolete**  
**54000000000**  
**00**

**CLASSIFICATION** **CODE**

(112) NBIS BRIDGE SYSTEM **YES**  
 (104) HIGHWAY SYSTEM **Inventory Route not on NHS 0**  
 (26) FUNCTIONAL CLASS **Rural Minor Arterial 06**  
 (100) STRAHNET HIGHWAY **Not a STRAHNET Route 0**  
 (101) PARALLEL STRUCTURE **No parallel structure exists N**  
 (102) DIRECTION OF TRAFFIC **2-way traffic 2**  
 (103) TEMPORARY STRUCTURE  
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks **1**  
 (20) TOLL **On Free Road 3**  
 (21) MAINT - **01**  
 (22) OWNER - **01**  
 (37) HISTORICAL SIGNIFICANCE - **5**

**STRUCTURE TYPE AND MATERIAL**

(43) STRUCTURE TYPE MAIN **Steel**  
 TYPE **Stringer/Multi-beam or girder** CODE **302**  
 (44) STRUCTURE TYPE APPROACH  
 TYPE CODE  
 (45) NUMBER OF SPANS IN MAIN UNIT **5**  
 (46) NUMBER OF SPANS IN APPROACH **0**  
 (107) DECK STRUCTURE TYPE CODE **1**  
 (108) WEARING SURFACE/PROTECTIVE SYSTEM  
 (A) TYPE OF WEARING SURFACE CODE **1**  
 (B) TYPE OF MEMBRANE CODE **0**  
 (C) TYPE OF DECK PROTECTION CODE **0**

**CONDITION** **CODE**

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

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

(31) DESIGN LOAD **H 20 + Mod 6**  
 (63) OPERATING RATING METHOD - **Load Factor 1**  
 (64) OPERATING RATING - **HS-47 89**  
 (65) INVENTORY RATING METHOD - **1**  
 (66) INVENTORY RATING **HS-28 53**

**AGE AND SERVICE**

(27) YEAR BUILT **1959**  
 (106) YEAR RECONSTRUCTED **0.**  
**00000000000000**  
**0**  
 (42) TYPE OF SERVICE ON - **Overpass Structure**  
 OFF - **Highway** CODE **61**  
 (28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**  
 (29) AVERAGE DAILY TRAFFIC **2700**  
 (30) YEAR OF ADT **2014** (109) TRUCK ADT PCT **8**  
 (19) BYPASS OR DETOUR LENGTH **4.0**

(70) BRIDGE POSTING **No Posting Required 5**  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED **A**  
 DESCRIPTION **Open, no restriction**

**APPRAISAL** **CODE**

(67) STRUCTURAL EVALUATION **6**  
 (68) DECK GEOMETRY **4**  
 (69) UNDERCLEARANCES, VERT & HORIZ **3**  
 (71) WATERWAY ADEQUACY **6**  
 (72) APPROACH ROADWAY ALIGNMENT **4**  
 (36) TRAFFIC SAFETY FEATURES **0111**  
 (113) SCOUR CRITICAL BRIDGES **N**

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN **75.0**  
 (49) STRUCTURE LENGTH **334.0**  
 (50) CURB OR SIDEWALK: LEFT **1.6** RIGHT **1.6**  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB **28.0**  
 (52) DECK WIDTH OUT TO OUT **33.3**  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) **29.0**  
 (33) BRIDGE MEDIAN **No median** CODE **0**  
 (34) SKEW **55** (35) STRUCTURE FLARED **0**  
 (10) INVENTORY ROUTE MIN VERT CLEAR **999.9**  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR **28.0**  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**  
 (54) MIN VERT UNDERCLEAR: REFERENCE **H 16.2**  
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H 9.3**  
 (56) MIN LAT UNDERCLEARANCE LT: **4.6**

**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 **5,400** YEAR OF FUTURE ADT **2040**

**NAVIGATION DATA**

(38) NAVIGATION CONTROL - CODE **N**  
 (111) PIER PROTECTION CODE  
 (39) NAVIGATION VERTICAL CLEARANCE **0.0**  
 (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR **0.0**  
 (40) NAVIGATION HORIZONTAL CLEARANCE **0.0**

**INSPECTION**

(90) INSPECTION DATE **08/19** (91) FREQUENCY **24**  
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE  
 A) FRACTURE CRIT DETAIL A)  
 B) UNDERWATER INSP B)  
 C) OTHER SPECIAL INSP C)  
 SCOUR

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification		Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note Below					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
							Reference Feature	Number of Lanes				Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade					
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	I95S	11000950	16.3	25.0	1	10095	1	2	20000	2013	38.3	H	16.2	9.6	5.1	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>
4	I95N	11000950	16.2	25.0	1	10095	1	2	20000	2013	37.4	H	16.2	9.3	4.6	3	1	1	<input type="checkbox"/>	<input type="checkbox"/>

Note: 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.

## Superstructure Build Details

Span Number 1

Span Length 73.0000

Skew 145.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2297 Square Feet		
1	Standard Joint	Pourable Joint Seal	40 Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	146 Feet		
4	Plate Girder	Steel Open Girder/Beam	292 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2920
8	Fixed Bearing	Fixed Bearing	8 Each	Legacy Red Lead Primer Systems with Various Topcoats	8

Span Number 2

Span Length 76.0000

Skew 145.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	40 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2394 Square Feet		
8	Fixed Bearing	Fixed Bearing	8 Each	Legacy Red Lead Primer Systems with Various Topcoats	8
4	Plate Girder	Steel Open Girder/Beam	304 Feet	Legacy Red Lead Primer Systems with Various Topcoats	3456
2	Concrete Railing	Reinforced Concrete Bridge Railing	152 Feet		

Span Number 3

Span Length 36.6700

Skew 145.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	74 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1156 Square Feet		
1	Standard Joint	Pourable Joint Seal	40 Feet		
8	Fixed Bearing	Fixed Bearing	8 Each	Legacy Red Lead Primer Systems with Various Topcoats	8
4	Plate Girder	Steel Open Girder/Beam	148 Feet	Legacy Red Lead Primer Systems with Various Topcoats	1452

Span Number 4

Span Length 76.0000

Skew 145.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	152 Feet		

## Superstructure Build Details

4	Plate Girder	Steel Open Girder/Beam	304 Feet	Legacy Red Lead Primer Systems with Various Topcoats	3456
8	Fixed Bearing	Fixed Bearing	8 Each	Legacy Red Lead Primer Systems with Various Topcoats	8
1	Standard Joint	Pourable Joint Seal	40 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2394 Square Feet		

Span Number 5

Span Length 73.0000

Skew 145.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2292 Square Feet		
2	Standard Joint	Pourable Joint Seal	80 Feet		
4	Plate Girder	Steel Open Girder/Beam	292 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2912
8	Fixed Bearing	Fixed Bearing	8 Each	Legacy Red Lead Primer Systems with Various Topcoats	8
2	Concrete Railing	Reinforced Concrete Bridge Railing	146 Feet		

## Structure Element Scoring

Structure Number: 770054

Inspection Date 8/26/2019

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	10533	10505	28	0	0
107	0	Steel Open Girder/Beam	Beam	1340	67	1272	1	0
515	107	Steel Protective Coating	Beam	14196	9013	4934	249	0
215	0	Reinforced Concrete Abutment	Abutments	112	107	5	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	39	39	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	282	269	7	6	0
301	0	Pourable Joint Seal	Expansion Joints	240	157	83	0	0
313	0	Fixed Bearing	Bearing Device	40	0	38	2	0
515	313	Steel Protective Coating	Bearing Device	40	0	32	2	6
321	0	Reinforced Concrete Approach Slabs	Approaches	400	330	70	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	670	659	11	0	0

# Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770054

Inspection Date: 08/26/2019

<b>MMS Code</b>	<b>Element Name</b>	<b>Defect Name</b>	<b>Recommended Quantity</b>
3314	Steel Open Girder/Beam	Damage	25 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	3 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	6 Feet
3334	Fixed Bearing	Corrosion	2 Each
3353	Reinforced Concrete Approach Slabs	Cracking (RC and Other)	70 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	5133 Square Feet

## Element Structure Maintenance Quantities

Structure Number: 770054

Inspection Date 08/26/2019

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	112	0	0	5	107
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	70	400	0	0	70	330
Beam	3314	Maintenance Steel Superstructure Components	25	1340	0	1	1272	67
Beam	3342	Clean and Paint Steel	5093	14196	0	249	4934	9013
Bearing Device	3334	Bridge Bearing	2	40	0	2	38	0
Bearing Device	3342	Clean and Paint Steel	40	40	6	2	32	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	670	0	0	11	659
Caps	3348	Maintenance of Concrete Substructure	9	282	0	6	7	269
Deck	3326	Maintenance of Concrete Deck	0	10533	0	0	28	10505
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	240	0	0	83	157
Piles and Columns	3348	Maintenance of Concrete Substructure	0	39	0	0	0	39



## Element Condition and Maintenance Data

Structure Number: 770054

Inspection Date: 08/26/2019

**Span 1** **Deck**  
**Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	2,297	2,289	8	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	8 Square Feet of diagonal Cracking with efflorescence in bay 3 at abutment 1 end.	2	8	Square Feet

**General Comments**

**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	73	0	73	0	0 Feet
515	Steel Protective Coating	730	497	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	730	497	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments**

**Span 1****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	730	497	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments****Span 1****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	730	497	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments****Span 1****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	BEARING ASSEMBLY HAS RUST SCALE, BEAM 1.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED.	4	1	1 Square Feet

**General Comments**

**Span 1 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments****Span 1 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST, BEAM 2.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

**General Comments****Span 1 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments****Span 1 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	BEARING ASSEMBLY HAS SURFACE RUST, BEAM 3.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED EFFECTIVENESS.	3	1	1	Square Feet

**General Comments****Span 1 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments****Span 1 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	BEARING ASSEMBLY HAS RUST SCALE, BEAM 4.	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED.	4	1	1 Square Feet

**General Comments****Span 1 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**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	76	0	76	0	0 Feet
515	Steel Protective Coating	864	520	333	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	61	Feet
107	Damage	15 Feet of Damage: Bottom flange is bent 2" south over I-95 southbound lane.	2	15	15 Feet
107	Damage	Intermediate Diaphragm: BOTTOM HALF OF GUSSET PLATE IS BENT AND DISTORTED ON SOUTH SIDE OF BEAM.	2		1 Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 Square Feet

**General Comments**

**Span 2 Beam 2 Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	76	0	76	0	0 Feet
515	Steel Protective Coating	864	500	333	31	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	Intermediate Diaphragm: BOTTOM HALF OF GUSSET PLATE IS BENT AND DISTORTED ON NORTH SIDE OF BEAM.	2		1 Feet
107	Corrosion	FOR 2' AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	76	Feet
515	Damage	20' OF SCRAPS, UNDERSIDE OF BOTTOM FLANGE, AT FIRST INTERMEDIATE DIAPHRAGM.	3	20	Square Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 Square Feet

**General Comments**

**Span 2 Beam 3 Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	76	0	75	1	0 Feet
515	Steel Protective Coating	864	500	353	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	(2) 2" GOUGES UP TO 1/2" DEEP, BOTTOM OF COVER PLATE, CAUSING UPWARD DEFLECTION OF BOTTOM FLANGE UP TO 1", 2' WEST OF FIRST INTERMEDIATE DIAPHRAGM.	3	1	1 Feet
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	75	Feet
107	Damage	Intermediate Diaphragm: BOTTOM HALF OF GUSSET PLATE IS BENT AND DISTORTED ON NORTH SIDE OF BEAM.	2		1 Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Damage	20' OF SCRAPS, UNDERSIDE OF BOTTOM FLANGE, AT FIRST INTERMEDIATE DIAPHRAGM.	2	20	Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 Square Feet

**General Comments**

**Span 2** **Beam 4**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	76	0	76	0	0 Feet
515	Steel Protective Coating	864	490	363	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	76	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Damage	30' OF SCRAPS, UNDERSIDE OF BOTTOM FLANGE, AT SECOND INTERMEDIATE DIAPHRAGM.	2	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 2** **Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments**

**Span 2 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	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	1	0	0	Each
515	Steel Protective Coating	1	0	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments**

**Span 2 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments****Span 2 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments****Span 2 Expansion Joint, Bent 1****Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	40	0	40	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Seal Cracking	TOP OF THE SEAL, DEGRADATION AND SURFACE CRACKING ALONG THE LENGTH.	2	40	Feet

**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	37	0	37	0	0 Feet
515	Steel Protective Coating	363	241	111	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	37	Feet



515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11	Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	111	111	Square Feet

**General Comments****Span 3****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	37	0	37	0	0 Feet
515	Steel Protective Coating	363	241	111	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	37	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	111	111 Square Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	37	0	37	0	0 Feet
515	Steel Protective Coating	363	241	111	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	37	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	111	111 Square Feet

**General Comments****Span 3****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	37	0	37	0	0 Feet
515	Steel Protective Coating	363	241	111	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	37	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	111	111 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments****Span 3 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments****Span 3 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 3 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 3 Far 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**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	76	0	76	0	0	Feet
515	Steel Protective Coating	864	500	333	31	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	76		Feet
515	Damage	20' OF SCRAPES ALONG UNDERSIDE OF BOTTOM FLANGE, AT MIDSPAN.	3	20		Square Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11	Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333	Square Feet

**General Comments**

**Span 4 Beam 2**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	76	0	76	0	0	Feet
515	Steel Protective Coating	864	520	333	11	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	74		Feet
107	Damage	NEAR MID SPAN, PAST IMPACT DAMAGE REPAIR	2	2		Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PROTECTIVE COATING	3	11	11	Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333	Square Feet

**General Comments**

**Span 4** **Beam 3**  
**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	76	0	76	0	0 Feet
515	Steel Protective Coating	864	520	333	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	76	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	76	67	9	0	0 Feet
515	Steel Protective Coating	864	531	333	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Damage	6' OF SCRAPES AND SHALLOW GOUGES ALONG UNDERSIDE OF BOTTOM FLANGE, NEAR MIDSPAN.	2	6	6 Feet
107	Damage	OVER RT I-95 NBL, IMPACT DAMAGE OVER A 3'L AREA WITH UP TO 1/2" DEFLECTIONS IN SCATTERED AREAS	2	3	Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	333	333 Square Feet

**General Comments**

**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	76	65	11	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Patched Area	11' REPAIR TO RAIL BEGINNING AT BENT 3.	2	11	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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each

<b>515</b>	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet
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**General Comments****Span 4 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments****Span 4 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 4 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 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	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 4 Far 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments****Span 5 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	2,292	2,272	20	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	TOP OF THE DECK, HAIRLINE LONGITUDINAL CRACKING AT END BENT 2, UP TO 2' LONG, SCATTERED	2	20	Square Feet

**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	73	0	73	0	0 Feet
515	Steel Protective Coating	728	495	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments****Span 5 Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	728	495	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments**



**Span 5****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	728	495	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments****Span 5****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	73	0	73	0	0 Feet
515	Steel Protective Coating	728	495	222	11	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION AND SCATTERED ALONG THE LOWER FLANGE, FRECKLED SURFACE CORROSION	2	73	Feet
515	Effectiveness (Steel Protective Coatings)	FOR 2'L AT THE BEAM ENDS, FULL HEIGHT SURFACE CORROSION WHERE THERE IS NO PC	3	11	11 Square Feet
515	Effectiveness (Steel Protective Coatings)	FRECKLED CORROSION ALONG THE BEAM	2	222	222 Square Feet

**General Comments****Span 5****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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 5 Far 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	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE CORROSION	4	1	1	Square Feet

**General Comments****Span 5 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments****Span 5 Far 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	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE CORROSION	4	1	1	Square Feet

**General Comments****Span 5 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	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1	Square Feet

**General Comments**

**Span 5 Far 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	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE CORROSION	4	1	1 Square Feet

**General Comments**

**Span 5 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	1	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	FRECKLED SURFACE CORROSION	2	1	1 Square Feet

**General Comments**

**Span 5 Far 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	SURFACE CORROSION	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE CORROSION	4	1	1 Square Feet

**General Comments**

**Span 5 Expansion Joint, Bent 4 Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	40	37	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Adjacent Deck or Header	EASTBOUND LANE, ADJACENT DECK HEADER, CHIPPING, APPROX 2" X UP TO 1/2" X UP TO 1/2" DEEP.	2	1	Feet

Structure Number: **770054**

Inspection Date: **08/26/2019**

301	Adjacent Deck or Header	EASTBOUND LANE, TRANSVERSE CRACKING IN THE ADJACENT DECK HEADER UP TO 1/32".	2	1	Feet
301	Adjacent Deck or Header	WESTBOUND LANE, TRANSVERSE CRACKING IN THE ADJACENT DECK HEADER UP TO 1/32".	2	1	Feet

**General Comments**

**Span 5 Expansion Joint, End Bent 2**

**Standard Joint**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	40	0	40	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Seal Cracking	TOP OF THE SEAL, DEGRADATION AND SURFACE CRACKING ALONG THE LENGTH	2	40	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	47	40	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Patched Area	14" X 6" X 6" PATCHED AREA, BOTTOM CORNER OF EAST FACE AT NORTH END.	2	2	Feet
234	Patched Area	18" X 6" X 6" PATCHED AREA, BOTTOM CORNER OF EAST FACE AT SOUTH END.	2	2	Feet
234	Patched Area	3' X 8" PATCHED AREA, TOP OF EAST FACE BELOW BEAM 4.	2	3	Feet

**General Comments**

**Bent 1 Pile 2**

**Prestressed Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
226	Prestressed Concrete Pile	1	1	0	0	0 Each

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

EPOXY SEALED CRACKS THROUGHOUT AT MID HEIGHT.

**End Bent 1 Abutment**

**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	56	51	5	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	5 Feet of map and vertical Cracking (RC and Other): Width 0.012-0.05 in. open at southwest corner.	2	5	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	47	41	0	6	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Patched Area	LOWER SIDE OF THE CAP BETWEEN PILES 3-4, WEST FACE, LOWER CORNER, APPROX 3SQFT UNSOUND PATCHING (HAIRLINE MAP CRACKED)	3		3 Feet
234	Patched Area	LOWER SIDE OF THE CAP BETWEEN PILES 5-6, APPROX 3SQFT OF UNSOUND PATCHING (MAP CRACKED UP TO 1/16"W)	3	3	3 Feet
234	Cracking (RC and Other)	LOWER SIDE OF THE CAP BETWEEN PILES 3-4, EAST FACE, LOWER CORNER, LONGITUDINAL CRACKING UP TO 1/8"	3	3	3 Feet

**General Comments****Approach 1****Reinforced Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
321	Reinforced Concrete Approach Slabs	200	180	20	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
321	Cracking (RC and Other)	SCATTERED HAIRLINE MAP AND LONGITUDINAL CRACKING	2	20	20 Square Feet

**General Comments****Approach 2****Reinforced Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
321	Reinforced Concrete Approach Slabs	200	150	50	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
321	Cracking (RC and Other)	SCATTERED HAIRLINE MAP CRACKING.	2	50	50 Square Feet

**General Comments**

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2297
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	73
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	73
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	73
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	73
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	73
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	73
Span 1	Expansion Joint, End Bent 1	Standard Joint	Pourable Joint Seal	40
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2394
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	76
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	76
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	76
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	76
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	76
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	76
Span 2	Expansion Joint, Bent 1	Standard Joint	Pourable Joint Seal	40
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1156
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	37
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	37
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	37
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	37
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	37
Span 3	Expansion Joint, Bent 2	Standard Joint	Pourable Joint Seal	40
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2394
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	76
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	76
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	76
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	76
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	76
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	76
Span 4	Expansion Joint, Bent 3	Standard Joint	Pourable Joint Seal	40
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2292
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	73
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	73
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	73
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	73
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	73
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	73
Span 5	Expansion Joint, End Bent 2	Standard Joint	Pourable Joint Seal	40
Span 5	Expansion Joint, Bent 4	Standard Joint	Pourable Joint Seal	40
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
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
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	56
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
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

## Elements Verified

Location	Name	Component	Element Name	Amount
Bent 2	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	56
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
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
Bent 3	Pile 6	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	47
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



# General Inspection Notes

Bent 1

Pile 2

EPOXY SEALED CRACKS THROUGHOUT AT MID HEIGHT.

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# National Bridge and NC Inspection Items

Structure Number: 770054

Inspection Date: 08/26/2019

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	7
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	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
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	N
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
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: 770054

Inspection Date: 08/26/2019

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Item	Grade	Maint Code	Qty.
Details			



Span 4 Left Bridge Rail: 11' REPAIR TO RAIL BEGINNING AT BENT 3.



Expansion Joint, Bent 4 : EASTBOUND LANE, TRANSVERSE CRACKING IN THE ADJACENT DECK HEADER UP TO 1/32".



Expansion Joint, End Bent 2 : TOP OF THE SEAL, DEGRADATION AND SURFACE CRACKING ALONG THE LENGTH



Span 2 Beam 1: 15 Feet of Damage: Bottom flange is bent 2" south over I-95 southbound lane.



Span 2 Beam 3: (2) 2" GOUGES UP TO 1/2" DEEP, BOTTOM OF COVER PLATE, CAUSING UPWARD DEFLECTION OF BOTTOM FLANGE UP TO 1", 2' WEST OF FIRST INTERMEDIATE DIAPHRAGM.



Span 2 Beam 3: (2) 2" GOUGES UP TO 1/2" DEEP, BOTTOM OF COVER PLATE, CAUSING UPWARD DEFLECTION OF BOTTOM FLANGE UP TO 1", 2' WEST OF FIRST INTERMEDIATE DIAPHRAGM.



Span 2 Beam 3: Intermediate Diaphragm: BOTTOM HALF OF GUSSET PLATE IS BENT AND DISTORTED ON NORTH SIDE OF BEAM.



Bent 1 Cap 1: 14" X 6" X 6" PATCHED AREA, BOTTOM CORNER OF EAST FACE AT NORTH END.



Bent 1 Cap 1: 3' X 8" PATCHED AREA, TOP OF EAST FACE BELOW BEAM 4.



Bent 1 Pile 2: EPOXY SEALED CRACKS THROUGHOUT AT MID HEIGHT.





Span 1 Beam 1 Near Bearing: BEARING ASSEMBLY HAS RUST SCALE, BEAM 1.



Span 4 Beam 1: 20' OF SCRAPES ALONG UNDERSIDE OF BOTTOM FLANGE, AT MIDSPAN.



Span 4 Beam 2: NEAR MID SPAN, PAST IMPACT DAMAGE REPAIR



Span 4 Beam 4: 6' OF SCRAPES AND SHALLOW GOUGES ALONG UNDERSIDE OF BOTTOM FLANGE, NEAR MIDSPAN.



Bent 4 Cap 1: LOWER SIDE OF THE CAP BETWEEN PILES 3-4, WEST FACE, LOWER CORNER, APPROX 3SQFT UNSOUND PATCHING (HAIRLINE MAP CRACKED)



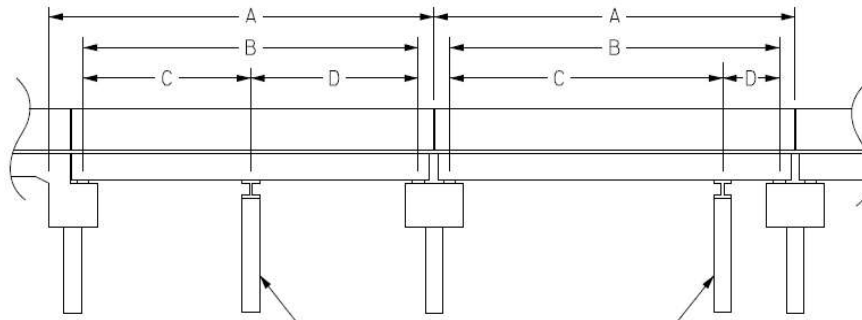
Bent 4 Cap 1: LOWER SIDE OF THE CAP BETWEEN PILES 3-4, EAST FACE, LOWER CORNER, LONGITUDINAL CRACKING UP TO 1/8"

# Structure Data Worksheet

## Span Profile

County: **ROBESON**

Structure Number: **770054**



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	73.000	71.000			
2	76.000	74.500			
3	36.670	35.167			
4	76.000	74.500			
5	73.000	71.000			



EAST APPROACH, LOOKING WEST



LOOKING EAST



WEST APPROACH, LOOKING EAST



CONCRETE BRIDGE DECK



NORTH BRIDGE RAIL



SOUTH BRIDGE RAIL



TRANSITION BETWEEN WEST APPROACH ROADWAY AND WEST APPROACH SLAB, LOOKING NORTH



TYPICAL EXPANSION JOINT, END BENT 1 SHOWN, LOOKING NORTH, (ALL BENTS SIMILAR)





TYPICAL GUARDRAIL ATTACHMENT, NORTHWEST SHOWN



TYPICAL GUARDRAIL, NORTHWEST SHOWN



ROADWAY VIEW FROM BRIDGE DECK, LOOKING NORTH



ROADWAY VIEW FROM BRIDGE DECK, LOOKING SOUTH



END BENT 1 ELEVATION, LOOKING WEST



END BENT 1 SLOPE PROTECTION, LOOKING WEST



BENT 1 ELEVATION, LOOKING EAST



BENT 2 ELEVATION, LOOKING EAST



SUPERSTRUCTURE UNDERSIDE, SPAN 1, LOOKING WEST



SPAN 2 CLEARANCE, LOOKING SOUTH



NORTH PROFILE, LOOKING SOUTH



SOUTH PROFILE, LOOKING NORTH



SPAN 4 CLEARANCE, LOOKING NORTH



BENT 3 ELEVATION, LOOKING WEST



BENT 4 ELEVATION, LOOKING WEST



END BENT 2 SLOPE PROTECTION, LOOKING EAST





END BENT 2 ELEVATION, LOOKING EAST



TYPICAL WINGWALL (SOUTHEAST SHOWN)



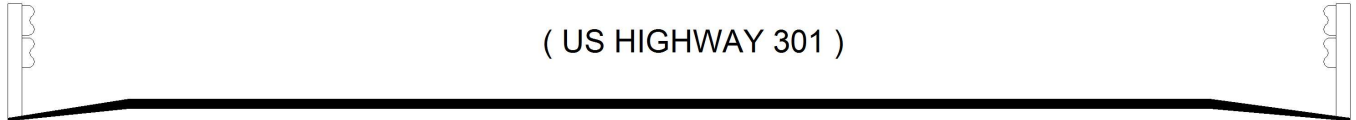
LADDER USED



TYPICAL BEARING OVER BENT (BENT 3, BEAM 2 SHOWN)

# Bridge Inspection Field Sketch

( US HIGHWAY 301 )



MEASURED 10' WEST OF STRUCTURE

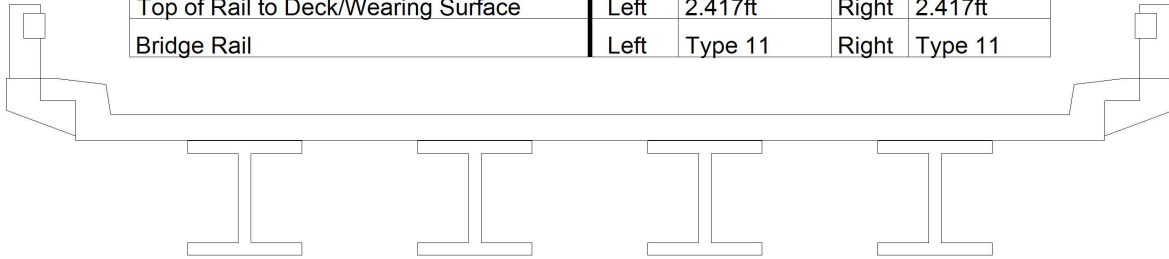
Roadway	23ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2.583ft Wide	2.583ft Paved	
Right Shoulder	3ft Wide	3ft Paved	
Left Guardrail	2.583ft from road		
Right Guardrail	3ft from road		

VERIFIED BY MRM, 8/26/2019

<b>Title</b> APPROACH		<b>Description</b> SOUTH APPROACH	
<b>Bridge No:</b> 770054	<b>Drawn By:</b> RLK	<b>Date:</b> 11/09/2009	<b>File Name:</b> S0214000667

# Bridge Inspection Field Sketch

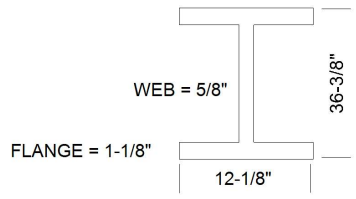
Deck Width/Out to Out	33.33ft	Between Rails	31.25ft
Clear Roadway	28ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.75ft
		Right	0.75ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	0.917ft
		Right	0.917ft
Top of Rail to Deck/Wearing Surface		Left	2.417ft
		Right	2.417ft
Bridge Rail		Left	Type 11
		Right	Type 11



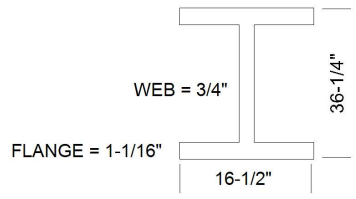
Measurements for Span #	1		
Deck Thickness	0.75	Left Overhang	4.67
Top of Rail to Bottom of Beam	6.25	Right Overhang	4.67

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	8ft	ALL SPANS SIMILAR
2	Steel I Beam	8ft	
3	Steel I Beam	8ft	
4	Steel I Beam	ft	COVERPLATES= 10 3/4"W X 7/8" H

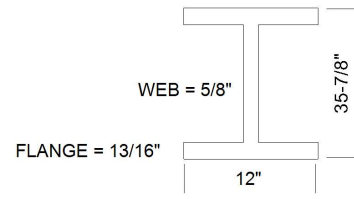
TYP GIRDER  
SPANS 1&5



TYP GIRDER  
SPANS 2&4



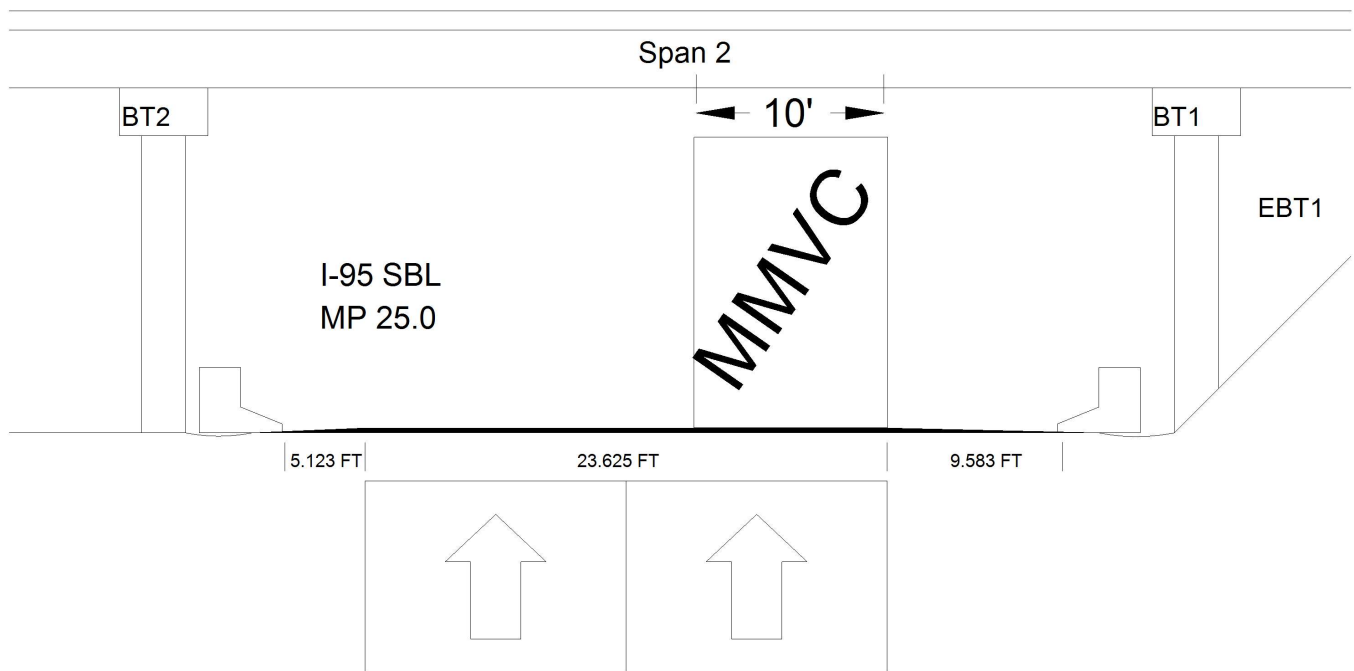
TYP GIRDER  
SPAN 3



VERIFIED BY MRM 8/26/19

<b>Title</b> SUPERSTRUCTURE	<b>Description</b> TYPICAL SECTION
<b>Bridge No:</b> 770054	<b>Drawn By:</b> RLK
<b>Date:</b> 11/09/2009	<b>File Name:</b> S0098000270

# Bridge Inspection Field Sketch

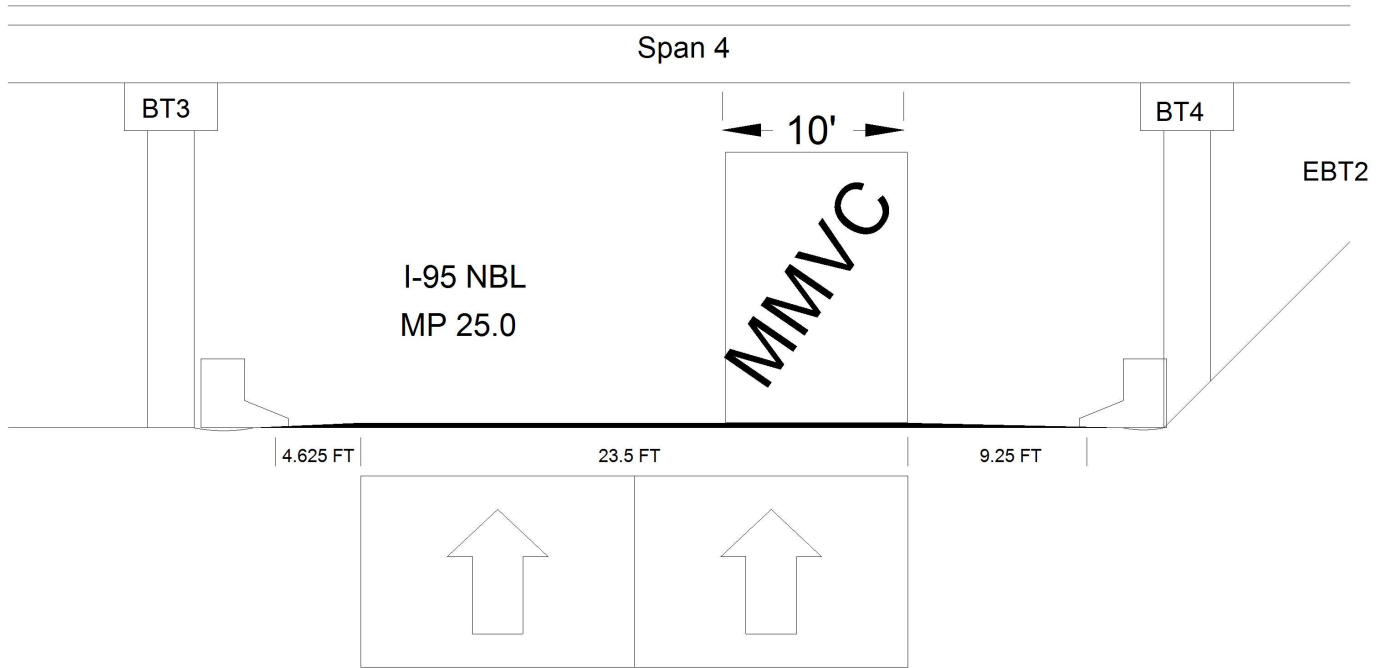


Roadway 1		Direction of Traffic	South
Distance to Left Rail	5.123FT	Distance to Right Rail	9.583FT
Distance to Left Toe of Slope		Distance to Left Bent	8.123FT
Distance to Right Toe of Slope	13FT	Distance to Right Bent	13.583FT
MMVC	16.25 Ft at Beam 4, 10' FROM RT EDGE OF PAVEMENT		
MVC	16.167 Ft at Beam 4, 0 FT from CENTER OF ROADWAY		

VERIFIED BY MRM, 8/26/2019

<b>Title</b> UNDERCLEARANCE-SPAN 2		<b>Description</b> I-95 SBL VERTICAL CLEARANCE	
<b>Bridge No:</b> 770054	<b>Drawn By:</b> RLK	<b>Date:</b> 10/06/2011	<b>File Name:</b> S0214000665

# Bridge Inspection Field Sketch

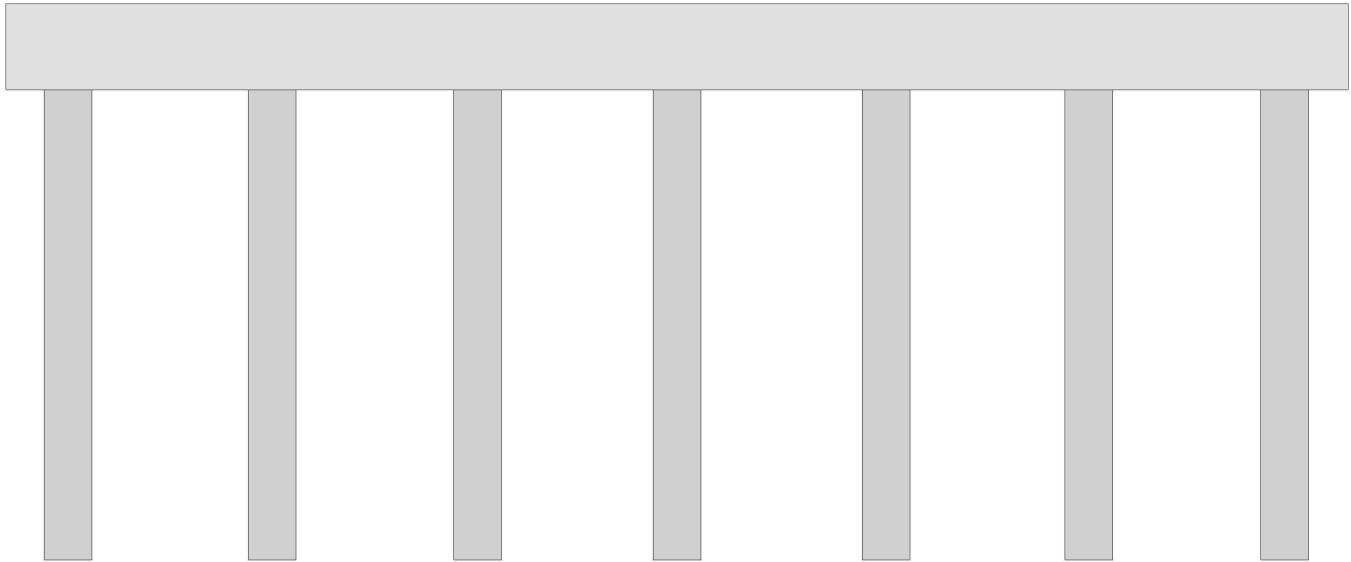


Roadway 1		Direction of Traffic	North
Distance to Left Rail	4.625FT	Distance to Right Rail	9.25FT
Distance to Left Toe of Slope		Distance to Left Bent	7.167FT
Distance to Right Toe of Slope	11FT	Distance to Right Bent	11FT
MMVC	16.2 Ft at Beam 1, 10 FT from RIGHT EDGE OF ROADWAY		
MVC	16.15 Ft at Beam 1, 0 FT from CENTER OF ROADWAY		

VERIFIED BY MRM, 8/26/2019

Title		Description	
UNDERCLEARANCE-SPAN 4		I-95 NB VERTICAL CLEARANCE	
Bridge No: 770054	Drawn By: RLK	Date: 10/06/2011	File Name: S0214000666

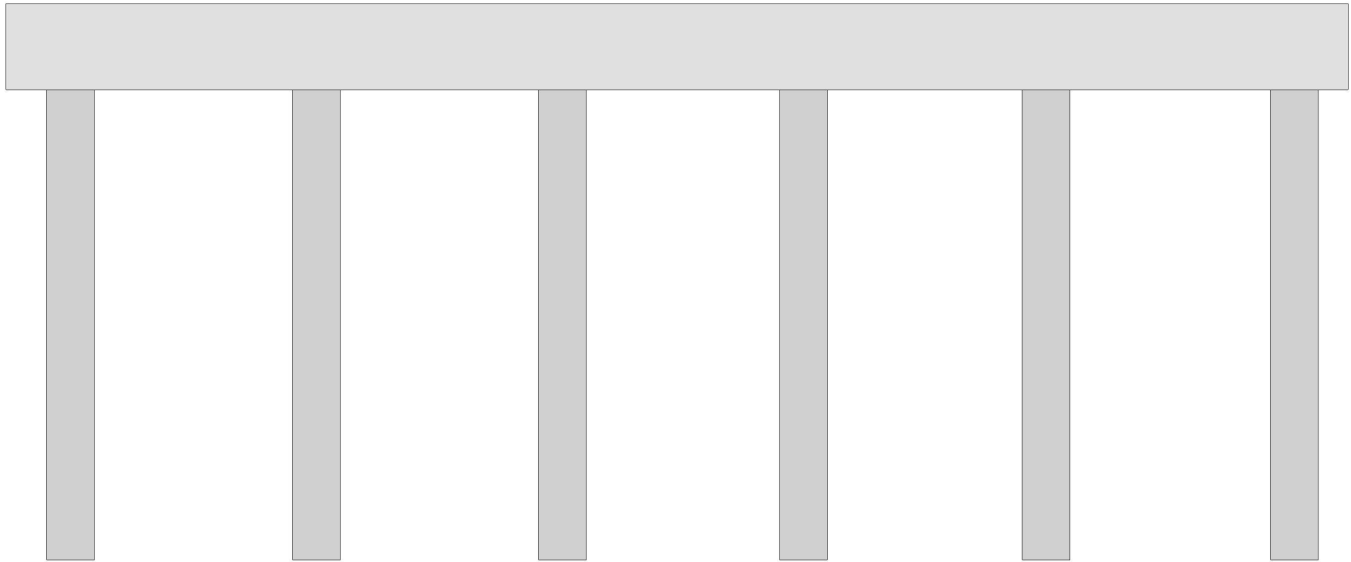
# Bridge Inspection Field Sketch



<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.				
46.834 ft.	3.000 ft.*	3.000 ft.*	2.167 ft.	2.167 ft.	1.833 ft.	1.833 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								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	7.123 ft.	1.67 ft.			Vertical	Yes	No	No	No
2	Concrete	7.167 ft.	1.67 ft.			Vertical	Yes	No	No	No
3	Concrete	6.959 ft.	1.67 ft.			Vertical	Yes	No	No	No
4	Concrete	7.290 ft.	1.67 ft.			Vertical	Yes	No	No	No
5	Concrete	7.083 ft.	1.67 ft.			Vertical	Yes	No	No	No
6	Concrete	6.833 ft.	1.67 ft.			Vertical	Yes	No	No	No
7	Concrete		1.67 ft.			Vertical	Yes	No	No	No
<p>VERIFIED BY MRM, 8/26/2019</p>										
Bent/Abutment #: 1			Similar Bents: 4							

<b>Title</b> SUBSTRUCTURE			<b>Description</b> BENTS 1&4			
Bridge No: 770054	Drawn By: RLK	Date: 11/09/2009	File Name: S0098000938			

# Bridge Inspection Field Sketch



<b>Cap Information</b>			<b>Material</b> Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
46.834 ft.	3.000 ft.	3.000 ft.	2.250 ft.	1.875 ft.	1.833 ft.	1.833 ft.				
<b>Subcap Information</b>			<b>Material</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8.583 ft.	1.67 ft.			Vertical	Yes	No	No	No
2	Concrete	8.583 ft.	1.67 ft.			Vertical	Yes	No	No	No
3	Concrete	8.417 ft.	1.67 ft.			Vertical	Yes	No	No	No
4	Concrete	8.459 ft.	1.67 ft.			Vertical	Yes	No	No	No
5	Concrete	8.667 ft.	1.67 ft.			Vertical	Yes	No	No	No
6	Concrete		1.67 ft.			Vertical	Yes	No	No	No
<p><b>VERIFIED BY MRM, 8/26/2019</b></p>										
<b>Bent/Abutment #:</b> 2			<b>Similar Bents:</b> 3							

<b>Title</b> SUBSTRUCTURE-1			<b>Description</b> BENTS 2&3			
<b>Bridge No:</b> 770054	<b>Drawn By:</b> RLK	<b>Date:</b> 11/09/2009	<b>File Name:</b> S0098000939			



# Bridge Inspection Field Sketch

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**Title**

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**Description**

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**Bridge No:** 770054

**Drawn By:** DLP

**Date:** 08/01/2005

**File Name:** S0098000269

# Bridge Inspection Field Sketch

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**Title**

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**Description**

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**Bridge No:** 770054

**Drawn By:** DLP

**Date:** 08/01/2005

**File Name:** S0098000272

# Bridge Inspection Field Sketch

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Title	Description		
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Bridge No: 770054	Drawn By: DLP	Date: 08/01/2005	File Name: S0098000271