



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: Prompt Action Request; Typical Section Sketch Modified

# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 05/05/2021

DIVISION: 9 COUNTY: DAVIDSON STRUCTURE NUMBER: 280115 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1711 MILE POST: \_\_\_\_\_

LOCATION: 0.2 MI. E. JCT. SR2932

FEATURE INTERSECTED: WINSTON SALEM SB.RR.

LATITUDE: 35° 58' 28.96" LONGITUDE: 80° 13' 19.58"

STEEL PLANK DECK ON SALVAGED I-BEAMS

SUPERSTRUCTURE: \_\_\_\_\_

SUBSTRUCTURE: \_\_\_\_\_

SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL  TEMPORARY SHORING  SCOUR CRITICAL  SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) DECK 4 / 4 SUPERSTRUCTURE 5 / 5 SUBSTRUCTURE 5 / 5 CULVERT N / N

POSTED SV: 32 POSTED TTST: 32

OTHER SIGNS PRESENT: (4) Delineators



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 W-E

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

Looking East

INSPECTED BY Jonathan M. Simpson	SIGNATURE <i>Jonathan M. Simpson</i>	ASSISTED BY J. Zach Blinson
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

07/08/2021

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE 280115  
 (8) STRUCTURE NUMBER (FEDERAL) 0570115  
 (5) INVENTORY ROUTE (ON/UNDER) ON 131017110  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 9  
 (3) COUNTY CODE (FEDERAL) 57 (4) PLACE CODE 75000  
 (6) FEATURE INTERSECTED WINSTON SALEM SB.RR.  
 (7) FACILITY CARRIED SR1711  
 (9) LOCATION 0.2 MI. E. JCT. SR2932  
 (11) MILEPOINT 0.0  
 (12) BASE HIGHWAY NETWORK 0  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE 35° 58' 28.96" (17) LONGITUDE 80° 13' 19.58"  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 16.36  
 STATUS = Structurally Deficient

**CLASSIFICATION** **CODE**

(112) NBIS BRIDGE SYSTEM YES  
 (104) HIGHWAY SYSTEM Inventory Route not on NHS 0  
 (26) FUNCTIONAL CLASS Urban Collector 17  
 (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 Temporary Structure or Conditions T  
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 0  
 (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 3  
 (46) NUMBER OF SPANS IN APPROACH 0  
 (107) DECK STRUCTURE TYPE CODE 6  
 (108) WEARING SURFACE/PROTECTIVE SYSTEM  
 (A) TYPE OF WEARING SURFACE CODE 6  
 (B) TYPE OF MEMBRANE CODE 0  
 (C) TYPE OF DECK PROTECTION CODE 0

**CONDITION** **CODE**

(58) DECK 4  
 (59) SUPERSTRUCTURE 5  
 (60) SUBSTRUCTURE 5  
 (61) CHANNEL & CHANNEL PROTECTION N  
 (62) CULVERTS N

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

(31) DESIGN LOAD Unknown 0  
 (63) OPERATING RATING METHOD - Load Factor 1  
 (64) OPERATING RATING - HS-19 34  
 (65) INVENTORY RATING METHOD - 1  
 (66) INVENTORY RATING HS-7 13  
 (70) BRIDGE POSTING Posting Required 4  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED  
 DESCRIPTION Posted for Load P

**AGE AND SERVICE**

(27) YEAR BUILT 1975  
 (106) YEAR RECONSTRUCTED 0  
 (42) TYPE OF SERVICE ON - Highway  
 OFF - Railroad CODE 12  
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 0  
 (29) AVERAGE DAILY TRAFFIC 5900  
 (30) YEAR OF ADT 2040 (109) TRUCK ADT PCT 7  
 (19) BYPASS OR DETOUR LENGTH 11.0

**APPRAISAL** **CODE**

(67) STRUCTURAL EVALUATION 3  
 (68) DECK GEOMETRY 2  
 (69) UNDERCLEARANCES, VERT & HORIZ 4  
 (71) WATERWAY ADEQUACY 3  
 (72) APPROACH ROADWAY ALIGNMENT 2  
 (36) TRAFFIC SAFETY FEATURES 0000  
 (113) SCOUR CRITICAL BRIDGES N

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN 50.0  
 (49) STRUCTURE LENGTH 125.0  
 (50) CURB OR SIDEWALK: LEFT 0.3 RIGHT 0.3  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 27.8  
 (52) DECK WIDTH OUT TO OUT 28.3  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 26.0  
 (33) BRIDGE MEDIAN No median CODE 0  
 (34) SKEW 31 (35) STRUCTURE FLARED 0  
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 27.8  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9  
 (54) MIN VERT UNDERCLEAR: REFERENCE R 23.3  
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE R 10.0  
 (56) MIN LAT UNDERCLEARANCE LT: 0.0

**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 11,800 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 05/21 (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	Number of Lanes	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	Minimum Vertical Underclearance	Righth 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
1	Railroad	80000000		0.0	0						25.3	R	23.3	10.3	10.0	4			<input type="checkbox"/>	<input type="checkbox"/>
1	RAILROAD	80000000			0							R	23.3	10.0		4			<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 35.0000

Skew 59.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	972 Square Feet		
2	Steel Rail	Metal Bridge Railing	70 Feet	Unknown	246
12	Plate Girder	Steel Open Girder/Beam	408 Feet	Legacy Red Lead Primer Systems with Various Topcoats	2364
1	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	983 Square Feet	Galvanized Protective System	983
24	Other Bearing	Other Bearings	24 Each	Legacy Red Lead Primer Systems with Various Topcoats	24

Span Number 2

Span Length 50.0000

Skew 59.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	1404 Square Feet	Galvanized Protective System	1404
12	Plate Girder	Steel Open Girder/Beam	600 Feet	Legacy Red Lead Primer Systems with Various Topcoats	4272
1	Asphalt Wearing Surface	Wearing Surface	1388 Square Feet		
2	Steel Rail	Metal Bridge Railing	100 Feet	Unknown	350
24	Other Bearing	Other Bearings	24 Each	Legacy Red Lead Primer Systems with Various Topcoats	24

Span Number 3

Span Length 40.0000

Skew 59.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1110 Square Feet		
24	Other Bearing	Other Bearings	24 Each	Legacy Red Lead Primer Systems with Various Topcoats	24
2	Steel Rail	Metal Bridge Railing	80 Feet	Unknown	280
1	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	1124 Square Feet	Galvanized Protective System	1124
12	Plate Girder	Steel Open Girder/Beam	468 Feet	Legacy Red Lead Primer Systems with Various Topcoats	3048

# Structure Element Scoring

Structure Number: **280115**

Inspection Date **5/5/2021**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
30	0	Steel Deck Corrugated/Orthotropic/Etc.	Deck	3511	2303	0	1200	8
515	30	Steel Protective Coating	Deck	3511	2311	0	0	1200
107	0	Steel Open Girder/Beam	Beam	1476	840	218	377	41
515	107	Steel Protective Coating	Beam	9684	8542	662	20	460
202	0	Steel Column	Piles and Columns	8	0	7	0	1
515	202	Steel Protective Coating	Piles and Columns	944	597	210	0	137
215	0	Reinforced Concrete Abutment	Abutments	68	4	25	37	2
231	0	Steel Pier Cap	Caps	136	59	65	10	2
515	231	Steel Protective Coating	Caps	788	566	40	0	182
316	0	Other Bearings	Bearing Device	72	17	55	0	0
515	316	Steel Protective Coating	Bearing Device	72	17	29	0	26
330	0	Metal Bridge Railing	Bridge Rail	250	15	235	0	0
515	330	Steel Protective Coating	Bridge Rail	876	476	0	0	400
510	0	Wearing Surface	Wearing Surfaces	3470	1597	65	1808	0

# Summary of Maintenance Needs

## Maintenance By Defect

Structure Number: **280115**

Inspection Date: **05/05/2021**

<b>MMS Code</b>	<b>Element Name</b>	<b>Defect Name</b>	<b>Recommended Quantity</b>
3328	Steel Deck Corrugated/Orthotropic/Etc.	Corrosion	1208 Square Feet
3314	Steel Open Girder/Beam	Corrosion	416 Feet
3354	Steel Column	Corrosion	1 Each
3354	Steel Column	Connection	1 Each
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	32 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	23 Feet
3350	Reinforced Concrete Abutment	Exposed Rebar	4 Feet
3350	Reinforced Concrete Abutment	Scour	2 Feet
3354	Steel Pier Cap	Corrosion	12 Feet
3334	Other Bearings	Connection	1 Each
3322	Metal Bridge Railing	Connection	1 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	150 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	1658 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	2797 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	581 Square Feet

## Element Structure Maintenance Quantities

Structure Number: **280115**

Inspection Date **05/05/2021**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	61	68	2	37	25	4
Beam	3314	Maintenance Steel Superstructure Components	416	1476	41	377	218	840
Beam	3342	Clean and Paint Steel	1142	9684	460	20	662	8542
Bearing Device	3334	Bridge Bearing	1	72	0	0	55	17
Bearing Device	3342	Clean and Paint Steel	55	72	26	0	29	17
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	250	0	0	235	15
Bridge Rail	3342	Clean and Paint Steel	400	876	400	0	0	476
Caps	3342	Clean and Paint Steel	222	788	182	0	40	566
Caps	3354	Maintenance of Steel Substructure Components	12	136	2	10	65	59
Deck	3328	Maintenance of Steel Plank Bridge Floor	1208	3511	8	1200	0	2303
Deck	3342	Clean and Paint Steel	1200	3511	1200	0	0	2311
Piles and Columns	3342	Clean and Paint Steel	347	944	137	0	210	597
Piles and Columns	3354	Maintenance of Steel Substructure Components	2	8	1	0	7	0
Wearing Surfaces	2816	Asphalt Surface Repair	1808	3470	0	1808	65	1597

# Priority Actions Request

Structure Number 280115

## Span1

**3328**      **Deck**                      Steel Deck Corrugated

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 10 AND 11 AT BENT 1. (PAR)
2	Corrosion	1	Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 9 AND 10 AT BENT 1. (PAR)
2	Corrosion	1	Span 1 Deck: 1/2 SF RUST SCALE WITH 1/8" REMAINING BEAMS 11 AND 12 AT BENT 1. (PAR)
2	Corrosion	1	Span 1 Deck: 1/2 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 8 AND 9 AT BENT 1. (PAR)

**3314**      **Beam 5**                      Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 5: 20" x 3 1/3" area of section loss with knife edge remaining on right side of top flange at Bent 1 (PAR)

**3314**      **Beam 6**                      Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 6: 20" OF RUST SCALE ON NORTH AND SOUTH EDGE OF TOP FLANGE WITH 1/8" REMAINING AT BENT 1. (PAR)

**3314**      **Beam 7**                      Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 1 Beam 7: 14" x 3" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)
2	Corrosion	2	Span 1 Beam 7: 18" x 3" area of 1/8" section loss (3/8" remaining) on both sides of bottom flange at Bent 1 (PAR)

## Span2

**3314**      **Beam 6**                      Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 2 Beam 6: 30" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange at Bent 2 (PAR)

**3314**      **Beam 7**                      Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Span 2 Beam 7: 20" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)
2	Corrosion	2	Span 2 Beam 7: 24" x 4" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)

? Priority Action Request (PAR)     
 1 Assigned Routine Maintenance     
 2 Assigned Priority Maintenance     
 3 Assigned Critical Find



# Priority Actions Request

Structure Number 280115

## Span3

3328	Deck	Steel Deck Corrugated		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	2	Span 3 Deck: 2 SF OF RUST SCALE WITH UP TO 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 6 AND 7, 6' FROM BENT 2. (PAR)	
3314	Beam 6	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	2	Span 3 Beam 6: 15" x 2 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	
2	Corrosion	3	Span 3 Beam 6: 32" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange, 10' from Bent 2 (PAR)	
2	Corrosion	3	Span 3 Beam 6: 4' RUST SCALE BOTTOM FLANGE UP TO 8" IN WEB WITH 1/4" REMAINING IN BOTTOM FLANGE AT END BENT 2. (PAR)	
3314	Beam 7	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	2	Span 3 Beam 7: 15" x 1" area of 1/8" section loss (3/8" remaining) on left side of top flange, 6' from End Bent 2 (PAR)	
2	Corrosion	2	Span 3 Beam 7: 18" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	
2	Corrosion	3	Span 3 Beam 7: 32" RUST SCALE TOP FLANGE WITH SECTION LOSS TO KNIFE'S EDGE ON SOUTH TOP FLANGE AND 9" x 1" area of 100% section loss ON BOTH SIDES OF TOP FLANGE AT END BENT 2. (PAR)	
3314	Beam 11	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	7	Span 3 Beam 11: 7' x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange near midspan (PAR)	
3314	Beam 12	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	2	Span 3 Beam 12: 20" x 1 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 11' from End Bent 2 (PAR)	
2	Corrosion	1	Span 3 Beam 12: 6" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 9' from End Bent 2 (PAR)	

## Bent 1

? Priority Action Request (PAR)
 1 Assigned Routine Maintenance
 2 Assigned Priority Maintenance
 3 Assigned Critical Find

# Priority Actions Request

Structure Number 280115

**3354**      **Cap 1**                      Steel Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	2	Bent 1 Cap 1: 20" x 2" area of 1/4" section loss (1/4" remaining) on Span 1 side of top flange under Bay 6 (PAR)

**3354**      **Pile 3**                              Steel Column

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Bent 1 Pile 3: 1" x 10" area of 1/8" section loss (3/8" remaining) on Span 2 flange at diagonal bracing connection (PAR)

**3350**      **Abutment**                      Reinforced Concrete Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Scour	2	End Bent 1 Abutment: 19" x 12" x 5" high erosion with 9" deep undermining under End Bent 1 cap at East end (PAR)

## Element Condition and Maintenance Data

Structure Number: 280115

Inspection Date: 05/05/2021

### Span 1 Deck Steel Deck Corrugated

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
30	Steel Deck Corrugated/Orthotropic/Etc.	983	679	0	300	4	Square Feet
515	Steel Protective Coating	983	683	0	0	300	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
30	Corrosion	1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 10 AND 11 AT BENT 1. (PAR)	4	1	1	Square Feet
30	Corrosion	1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 9 AND 10 AT BENT 1. (PAR)	4	1	1	Square Feet
30	Corrosion	1/2 SF RUST SCALE WITH 1/8" REMAINING BEAMS 11 AND 12 AT BENT 1. (PAR)	4	1	1	Square Feet
30	Corrosion	1/2 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 8 AND 9 AT BENT 1. (PAR)	4	1	1	Square Feet
30	Corrosion	LIGHT SCALING ON 30% OF EXPOSED SURFACE, AT RANDOM THROUGHOUT DECK UNDERSIDE.	3	300	300	Square Feet
515	Effectiveness (Steel Protective Coatings)	300 SF OF FAILED COATING.	4	300	300	Square Feet
<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	34	0	7	27	0	Feet
515	Steel Protective Coating	197	167	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	20' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT. (PHOTO TAKEN NEAR MID SPAN)	3	20	20	Feet
107	Corrosion	7' x 1" area of 1/16" section loss (7/16" remaining) on left side of top flange near midspan	3	7	7	Feet
107	Corrosion	10' SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	7		Feet
515	Effectiveness (Steel Protective Coatings)	30 SF OF FAILED COATING.	4	30	30	Square Feet
<b>General Comments</b>						

### 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	34	26	8	0	0	Feet
515	Steel Protective Coating	197	189	0	0	8	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	8' OF SURFACE RUST ON TOP FLANGE, AT RANDOM THROUGHOUT.	2	8		Feet

<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>8 SF OF FAILED COATING.</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>Square Feet</b>
<b>General Comments</b>						

**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	34	30	4	0	0 Feet
515	Steel Protective Coating	197	193	0	0	4 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	4' OF SURFACE RUST ON BOTH FLANGES, AT RANDOM THROUGHOUT.	2	4	Feet
515	Effectiveness (Steel Protective Coatings)	4 SF OF FAILED COATING.	4	4	4 Square Feet
<b>General Comments</b>					

**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	34	29	0	5	0 Feet
515	Steel Protective Coating	197	194	0	0	3 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	5' OF SURFACE RUST WITH LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	5	5 Feet
515	Effectiveness (Steel Protective Coatings)	3 SF OF FAILED COATING.	4	3	3 Square Feet
<b>General Comments</b>					

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	32	0	0	2 Feet
515	Steel Protective Coating	197	195	0	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20" x 3 1/2" area of section loss (with knife edge remaining) on right side of top flange at Bent 1 (PAR)	4	2	2 Feet
515	Effectiveness (Steel Protective Coatings)	2 SF OF FAILED COATING.	4	2	2 Square Feet
<b>General Comments</b>					

**Span 1****Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	12	20	0	2 Feet
515	Steel Protective Coating	197	165	22	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20" OF RUST SCALE ON NORTH AND SOUTH EDGE OF TOP FLANGE WITH 1/8" REMAINING AT BENT 1. (PAR)	4	2	2 Feet
107	Corrosion	20" OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	12 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	12	12 Square Feet

General Comments

**Span 1****Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	20	0	10	4 Feet
515	Steel Protective Coating	197	182	10	0	5 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	14" x 3" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)	4	2	2 Feet
107	Corrosion	18" x 3" area of 1/8" section loss (3/8" remaining) on both sides of bottom flange at Bent 1 (PAR)	4	2	2 Feet
107	Corrosion	10' LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	10	10 Feet
515	Effectiveness (Steel Protective Coatings)	5 SF OF FAILED COATING.	4	5	5 Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	5	5 Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF OF FRECKLED RUST.	2	5	5 Square Feet

General Comments

**Span 1****Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	19	15	0	0 Feet
515	Steel Protective Coating	197	170	20	0	7 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	15' LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	15	Feet
515	Effectiveness (Steel Protective Coatings)	7 SF OF FAILED COATING.	4	7	7 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet

<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>10 SF OF FRECKLED RUST.</b>	<b>2</b>	<b>10</b>	<b>10</b>	<b>Square Feet</b>
<b>General Comments</b>						

**Span 1** **Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	27	7	0	0 Feet
515	Steel Protective Coating	197	194	0	0	3 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	7' OF SURFACE RUST ON TOP FLANGE, AT RANDOM THROUGHOUT.	2	7	Feet
515	Effectiveness (Steel Protective Coatings)	3 SF OF FAILED COATING.	4	3	3 Square Feet
<b>General Comments</b>					

**Span 1** **Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	23	1	10	0 Feet
515	Steel Protective Coating	197	162	20	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	10' OF LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	10	10 Feet
107	Distortion	12" x 1/4" upward deflection on left side of bottom flange, 12' from Bent 1	2	1	Feet
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 Square Feet
<b>General Comments</b>					

**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	34	24	0	10	0 Feet
515	Steel Protective Coating	197	162	20	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	10' OF peeling paint with rust ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	10	10 Feet
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	Square Feet
<b>General Comments</b>					

**Span 1** **Beam 12****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	34	9	0	25	0 Feet
515	Steel Protective Coating	197	132	20	20	25 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	25' x 2" area of 1/16" section loss ON BOTH SIDES OF TOP FLANGE LIGHT SCALING TOP FLANGE, AT RANDOM THROUGHOUT.	3	25	25 Feet
515	Effectiveness (Steel Protective Coatings)	25 SF OF FAILED COATING.	4	25	25 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	3	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 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	972	757	0	215	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	(2) UP TO 35' x 1/2" LONGITUDINAL CRACKS IN Eastbound LANE.	3	70	70 Square Feet
510	Crack (Wearing Surface)	45 square feet up to 1/4" transverse cracks	3	45	45 Square Feet
510	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4" AT RANDOM THROUGHOUT ASPHALT WEARING SURFACE, PRIMARILY IN EASTBOUND LANE.	3	100	100 Square Feet

**General Comments**

OVERLAY OVERLAPS END BENT 2 JOINT AND COVERS PREVIOUS CRACKING DEFECT.

**Span 1** **Left Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	35	0	35	0	0 Feet
515	Steel Protective Coating	123	103	0	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.	2	35	Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	20	20 Square Feet

**General Comments**

**Span 1 Right Bridge Rail**  
**Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
330	Metal Bridge Railing	35	0	35	0	0	Feet
515	Steel Protective Coating	123	73	0	0	50	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.	2	35		Square Feet
515	Effectiveness (Steel Protective Coatings)	50 SF OF FAILED COATING.	4	50	50	Square Feet

General Comments

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

General Comments

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Connection	ANCHOR BOLT NOT FULLY SEATED UNDERNEATH THE BEARING IN THE TOP FLANGE OF CAP.	2	1	1	Each
316	Corrosion	Surface rust	2			Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each



<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>Substantially effective</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>Square Feet</b>
<b>General Comments</b>						

**Span 1 Far Bearing****Other Bearing**

<b>Element Number</b>	<b>Element Name</b>	<b>Total Qty</b>	<b>CS1 Qty</b>	<b>CS2 Qty</b>	<b>CS3 Qty</b>	<b>CS4 Qty</b>
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

<b>Element Number</b>	<b>Defect Type</b>	<b>Defect Description</b>	<b>CS</b>	<b>CS Qty</b>	<b>Maint Qty</b>
316	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet
<b>General Comments</b>					

**Span 1 Near Bearing****Other Bearing**

<b>Element Number</b>	<b>Element Name</b>	<b>Total Qty</b>	<b>CS1 Qty</b>	<b>CS2 Qty</b>	<b>CS3 Qty</b>	<b>CS4 Qty</b>
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

<b>Element Number</b>	<b>Defect Type</b>	<b>Defect Description</b>	<b>CS</b>	<b>CS Qty</b>	<b>Maint Qty</b>
316	Corrosion	Peeling paint with rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet
<b>General Comments</b>					

**Span 1 Far Bearing****Other Bearing**

<b>Element Number</b>	<b>Element Name</b>	<b>Total Qty</b>	<b>CS1 Qty</b>	<b>CS2 Qty</b>	<b>CS3 Qty</b>	<b>CS4 Qty</b>
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	1	0	0 Square Feet

<b>Element Number</b>	<b>Defect Type</b>	<b>Defect Description</b>	<b>CS</b>	<b>CS Qty</b>	<b>Maint Qty</b>
316	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet
<b>General Comments</b>					

**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

General Comments

**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

General Comments

**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments**

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments**

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
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Inspection Date: **05/05/2021**

<b>316</b>	<b>Corrosion</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>2</b>	<b>1</b>	<b>Each</b>
<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>4</b>	<b>1</b>	<b>1 Square Feet</b>

General Comments

**Span 1 Near Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Peeling paint with rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

General Comments

**Span 1 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 1 Near Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Peeling paint with rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

General Comments

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Peeling paint with rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

**General Comments**

**Span 1 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Peeling paint with rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

**General Comments**

**Span 1 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	Surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

**General Comments**

**Span 2 Deck**  
**Steel Deck Corrugated**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
30	Steel Deck Corrugated/Orthotropic/Etc.	1,404	844	0	560	0 Square Feet
515	Steel Protective Coating	1,404	844	0	0	560 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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30	Corrosion	LIGHT SCALING ON 40% OF EXPOSED SURFACE, AT RANDOM THROUGHOUT DECK UNDERSIDE.	3	560	560	Square Feet
515	Effectiveness (Steel Protective Coatings)	350 SF OF FAILED COATING.	4	560	560	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	50	0	0	50	0 Feet
515	Steel Protective Coating	356	246	80	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	Full length OF LIGHT SCALING SCALE ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	50	50 Feet
515	Effectiveness (Steel Protective Coatings)	40 SF OF FAILED COATING.	4	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	40 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	40	40 Square Feet
515	Effectiveness (Steel Protective Coatings)	40 SF OF FRECKLED RUST.	2	40	40 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	50	30	0	20	0 Feet
515	Steel Protective Coating	356	306	40	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20' OF LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	20	20 Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 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	50	10	0	40	0 Feet
515	Steel Protective Coating	356	256	80	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	40' OF LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	40	40 Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	20	20 Square Feet

515	Effectiveness (Steel Protective Coatings)	40 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	40	40	Square Feet
515	Effectiveness (Steel Protective Coatings)	40 SF OF FRECKLED RUST.	2	40	40	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	50	30	0	20	0 Feet
515	Steel Protective Coating	356	306	40	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20' OF LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	20	20 Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

## General Comments

## Span 2

## Beam 5

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	44	0	6	0 Feet
515	Steel Protective Coating	356	344	0	0	12 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	6' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT BENT 1 AND BENT 2.	3	6	6 Feet
515	Effectiveness (Steel Protective Coatings)	12 SF OF FAILED COATING.	4	12	12 Square Feet

## General Comments

## Span 2

## Beam 6

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	27	0	20	3 Feet
515	Steel Protective Coating	356	336	0	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	30" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange at Bent 2 (PAR)	4	3	3 Feet
107	Corrosion	20' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	20	20 Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	20	20 Square Feet

## General Comments



**Span 2** **Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	31	0	15	4 Feet
515	Steel Protective Coating	356	341	0	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	4	2	2 Feet
107	Corrosion	24" x 4" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)	4	2	2 Feet
107	Corrosion	15' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	15	15 Feet
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet

General Comments

**Span 2** **Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	27	0	23	0 Feet
515	Steel Protective Coating	356	341	0	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	20	20 Feet
107	Corrosion	30" x 3" area of 1/16" section loss (7/16" remaining) on both sides of top flange at Bent 1	3	3	3 Feet
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet

General Comments

**Span 2** **Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	44	0	6	0 Feet
515	Steel Protective Coating	356	350	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	6' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	6	6 Feet
515	Effectiveness (Steel Protective Coatings)	6 SF OF FAILED COATING.	4	6	6 Square Feet

General Comments

**Span 2****Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	44	0	6	0 Feet
515	Steel Protective Coating	356	350	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	6' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	6	6 Feet
515	Effectiveness (Steel Protective Coatings)	6 SF OF FAILED COATING.	4	6	6 Square 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	50	40	0	10	0 Feet
515	Steel Protective Coating	356	346	0	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	10' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	10	10 Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet

**General Comments****Span 2****Beam 12****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	50	10	0	40	0 Feet
515	Steel Protective Coating	356	286	40	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	40' OF LIGHT SCALING ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	40	40 Feet
515	Effectiveness (Steel Protective Coatings)	30 SF OF FAILED COATING.	4	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,388	510	35	843	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	(2) UP TO 8' X 1/2" TRANSVERSE CRACKS, BOTH TRAVEL LANES, AT BENT 2. (PHOTO TAKEN IN EASTBOUND LANE)	3	15	15 Square Feet
510	Crack (Wearing Surface)	(5) UP TO 30' x 1/2" LONGITUDINAL CRACKS, (4) IN Eastbound LANE AND ONE IN Westbound LANE. (PHOTO TAKEN IN Westbound LANE AT BENT 2)	3	150	150 Square Feet
510	Crack (Wearing Surface)	28 X UP TO 1" DIAGONAL CRACK AT BENT 1.	3	28	28 Square Feet
510	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4" AT RANDOM THROUGHOUT ASPHALT WEARING SURFACE, PRIMARILY IN EASTBOUND LANE.	3	500	500 Square Feet
510	Patched Area/Pothole (Wearing Surface)	27' x UP TO 5' PATCHED AREA WITH TRANSVERSE CRACKS AT BENT 2 JOINT.	3	150	150 Square Feet
510	Patched Area/Pothole (Wearing Surface)	7' X 5' PATCHED AREA AT CENTERLINE OF ROADWAY AT BENT 1.	2	35	Square Feet

General Comments

**Span 2 Left Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	50	10	40	0	0 Feet
515	Steel Protective Coating	175	95	0	0	80 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.	2	40	Square Feet
515	Effectiveness (Steel Protective Coatings)	60 SF OF FAILED COATING.	4	80	80 Square Feet

General Comments

**Span 2 Right Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	50	5	45	0	0 Feet
515	Steel Protective Coating	175	85	0	0	90 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.	2	45	Square Feet
515	Effectiveness (Steel Protective Coatings)	90 SF OF FAILED COATING.	4	90	90 Square Feet

General Comments

**Span 2 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 2 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 2 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 2 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments****Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

**General Comments****Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

**General Comments****Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

**General Comments****Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
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<b>316</b>	<b>Corrosion</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>2</b>	<b>1</b>	<b>Each</b>
<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>4</b>	<b>1</b>	<b>1 Square Feet</b>

General Comments

**Span 2 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
<b>316</b>	<b>Corrosion</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>2</b>	<b>1</b>	<b>Each</b>
<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>4</b>	<b>1</b>	<b>1 Square Feet</b>

General Comments

**Span 2 Near Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
<b>316</b>	<b>Corrosion</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>2</b>	<b>1</b>	<b>Each</b>
<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>4</b>	<b>1</b>	<b>1 Square Feet</b>

General Comments

**Span 2 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
<b>316</b>	<b>Corrosion</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>2</b>	<b>1</b>	<b>Each</b>
<b>515</b>	<b>Effectiveness (Steel Protective Coatings)</b>	<b>SURFACE RUST, BEARING ASSEMBLY.</b>	<b>4</b>	<b>1</b>	<b>1 Square Feet</b>

General Comments

**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

General Comments

**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

General Comments

**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

## General Comments

## Span 2 Near Bearing

## Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

## General Comments

## Span 2 Far Bearing

## Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1	Square Feet

## General Comments

## Span 2 Near Bearing

## Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	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	
316	Corrosion	Surface rust	2	1		Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1	Square Feet

## General Comments

## Span 3 Deck

## Steel Deck Corrugated

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
30	Steel Deck Corrugated/Orthotropic/Etc.	1,124	780	0	340	4	Square Feet
515	Steel Protective Coating	1,124	784	0	0	340	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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30	Corrosion	2 SF OF RUST SCALE WITH UP TO 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 6 AND 7, 6' FROM BENT 2. (6' from End Bent 2 similar) (PAR)	4	4	4	Square Feet
30	Corrosion	LIGHT SCALING ON 30% OF EXPOSED SURFACE, AT RANDOM THROUGHOUT DECK UNDERSIDE.	3	340	340	Square Feet
515	Effectiveness (Steel Protective Coatings)	340 SF OF FAILED COATING.	4	340	340	Square 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	39	19	20	0	0 Feet
515	Steel Protective Coating	254	204	40	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20' OF SURFACE RUST ON TOP FLANGE, AT RANDOM THROUGHOUT.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 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	39	29	10	0	0 Feet
515	Steel Protective Coating	254	232	20	0	2 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	10' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT BENT 2 AND END BENT 2.	2	10	Feet
515	Effectiveness (Steel Protective Coatings)	2 SF OF FAILED COATING.	4	2	2 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 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	39	33	6	0	0 Feet
515	Steel Protective Coating	254	248	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	6' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT BENT 2 AND END BENT 2.	2	6	Feet

515	Effectiveness (Steel Protective Coatings)	6' OF FAILED COATING.	4	6	6	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	39	33	6	0	0 Feet
515	Steel Protective Coating	254	248	0	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	6' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT BENT 2 AND END BENT 2.	2	6	Feet
515	Effectiveness (Steel Protective Coatings)	6' OF FAILED COATING.	4	6	6 Square Feet
General Comments					

## Span 3

## Beam 5

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	35	4	0	0 Feet
515	Steel Protective Coating	254	250	0	0	4 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	4' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT BENT 2 AND END BENT 2.	2	4	Feet
515	Effectiveness (Steel Protective Coatings)	4' OF FAILED COATING.	4	4	4 Square Feet
General Comments					

## Span 3

## Beam 6

## Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	5	25	0	9 Feet
515	Steel Protective Coating	254	204	30	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	15" x 2 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	4	2	2 Feet
107	Corrosion	32" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange, 10' from Bent 2 (PAR)	4	3	3 Feet
107	Corrosion	4' RUST SCALE BOTTOM FLANGE UP TO 8" IN WEB WITH 1/4" REMAINING IN BOTTOM FLANGE AT END BENT 2. (PAR)	4	4	4 Feet
107	Corrosion	25' surface rust	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	10	20 Square Feet
General Comments					

**Span 3****Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	0	30	2	7 Feet
515	Steel Protective Coating	254	184	40	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	15" x 1" area of 1/8" section loss (3/8" remaining) on left side of top flange, 6' from End Bent 2 (PAR)	4	2	2 Feet
107	Corrosion	18" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	4	2	2 Feet
107	Corrosion	32" RUST SCALE TOP FLANGE WITH SECTION LOSS TO KNIFE'S EDGE ON SOUTH TOP FLANGE AND 9" x 1" area of 100% section loss ON BOTH SIDES OF BOTH FLANGES AT END BENT 2. (PAR)	4	3	3 Feet
107	Corrosion	(2) up to 12" x 2" area of 1/16" section loss (7/16" remaining) left side of top flange, 11' from End Bent 2	3	2	2 Feet
107	Corrosion	30' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	30	Feet
515	Effectiveness (Steel Protective Coatings)	30 SF OF FAILED COATING.	4	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF peeling paint with rust AT RANDOM THROUGHOUT BOTH FLANGE.	2	20	20 Square Feet

General Comments

**Span 3****Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	19	20	0	0 Feet
515	Steel Protective Coating	254	204	40	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20' OF peeling paint with rust ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

General Comments

**Span 3****Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	29	10	0	0 Feet
515	Steel Protective Coating	254	228	20	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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107	Corrosion	10' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	10	Feet
515	Effectiveness (Steel Protective Coatings)	6 SF OF FAILED COATING.	4	6	6 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 Square Feet

General Comments

**Span 3****Beam 10****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	27	10	2	0 Feet
515	Steel Protective Coating	254	224	20	0	10 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	18" x 2" area of 1/16" section loss (7/16" remaining) on both sides of bottom flange near midspan	3	2	Feet
107	Corrosion	10' OF SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	2	10	Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 Square 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	39	17	15	0	7 Feet
515	Steel Protective Coating	254	219	20	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	7' x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange near midspan (PAR)	4	7	7 Feet
107	Corrosion	15' OF SURFACE RUST ON TOP AND BOTTOM FLANGES AND WEB, AT RANDOM THROUGHOUT.	2	15	Feet
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	10	10 Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF OF FRECKLED RUST.	2	10	10 Square Feet

General Comments

**Span 3****Beam 12****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	39	6	0	30	3 Feet
515	Steel Protective Coating	254	184	40	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	20" x 1 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 11' from End Bent 2 (PAR)	4	2	2 Feet
107	Corrosion	6" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 9' from End Bent 2 (PAR)	4	1	1 Feet
107	Corrosion	30' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.	3	30	30 Feet
515	Effectiveness (Steel Protective Coatings)	30 SF OF FAILED COATING.	4	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST AT RANDOM THROUGHOUT BOTTOM FLANGE.	2	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments****Span 3****Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,110	330	30	750	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	MAP CRACKING UP TO 1/4" AT RANDOM THROUGHOUT ASPHALT WEARING SURFACE. (PHOTO TAKEN IN EASTBOUND LANE 1' FROM END BENT 2)	3	750	750 Square Feet
510	Patched Area/Pothole (Wearing Surface)	(2) UP TO 5' X 3' PATCHED AREAS, IN WESTBOUND LANE NEAR CENTERLINE, AT BENT 2 AND END BENT 2. (PHOTO TAKEN AT END BENT 2)	2	30	Square Feet

**General Comments**

OVERLAY OVERLAPS END BENT 2 JOINT AND COVERS PREVIOUS CRACKING DEFECT.

**Span 3****Left Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	40	0	40	0	0 Feet
515	Steel Protective Coating	140	60	0	0	80 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL. (PHOTO TAKEN NEAR END BENT 2)	2	40	Square Feet
515	Effectiveness (Steel Protective Coatings)	60 SF OF FAILED COATING.	4	80	80 Square Feet

**General Comments**

**Span 3 Right Bridge Rail****Steel Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
330	Metal Bridge Railing	40	0	40	0	0 Feet
515	Steel Protective Coating	140	60	0	0	80 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
330	Corrosion	SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.	2	40	Square Feet
515	Effectiveness (Steel Protective Coatings)	60 SF OF FAILED COATING.	4	80	80 Square Feet

General Comments

**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

General Comments

**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

**General Comments****Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

**General Comments****Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

**General Comments****Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

**General Comments****Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
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316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

General Comments

**Span 3 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 3 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 3 Far Bearing**

**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments



**Span 3 Near Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	SURFACE RUST, BEARING ASSEMBLY.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	SURFACE RUST, BEARING ASSEMBLY.	4	1	1 Square Feet

General Comments

**Span 3 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**Span 3 Far Bearing**  
**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	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
316	Corrosion	surface rust	2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	1	1 Square Feet

General Comments

**End Bent 1 Cap 1**  
**Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	24	0	10	0 Feet
515	Steel Protective Coating	197	175	0	0	22 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
231	Corrosion	SURFACE CORROSION WITH LIGHT SCALING ON TOP FLANGE BETWEEN BEAMS 5 THROUGH 9.	3	10	10 Feet
515	Effectiveness (Steel Protective Coatings)	22 SF OF FAILED COATING.	4	22	22 Square Feet

**General Comments**

1/4" WELDED PLATE REPAIR TO TOP FLANGE WITH ADDED ANGLE PLATES TO THE BOTTOM FLANGE AND WEB BETWEEN BEAMS 6 AND 7.

**Bent 1 Cap 1****Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	7	25	0	2 Feet
515	Steel Protective Coating	197	97	20	0	80 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
231	Corrosion	20" x 2" area of 1/4" section loss (1/4" remaining) on Span 1 side of top flange under Bay 6 (PAR)	4	2	2 Feet
231	Corrosion	30' OF SURFACE RUST WITH ISOLATED LOCATIONS FRECKLED RUST ON TOP AND BOTTOM FLANGES AND UP TO 5" IN WEB, AT RANDOM THROUGHOUT EAST AND WEST FACES.	2	30	Feet
515	Effectiveness (Steel Protective Coatings)	80 SF OF FAILED COATING.	4	80	80 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments**

29" X 5" X 4.5" X 1/2" THICK CAP REPAIR BETWEEN BEAMS 6 AND 7.

**Bent 1 Pile 1****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	110	0	0	8 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	10' OF SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
202	Scour	20' x 7' x 6' deep scour on End Bent 1 slope	2		Each
515	Effectiveness (Steel Protective Coatings)	10 SF OF FAILED COATING.	4	8	8 Square Feet

**General Comments**

(3) UP TO 16" X 9" X 1/4" WELDED REPAIR PLATES ON EAST AND WEST FLANGES, 14' FROM BOTTOM OF CAP. (PHOTO TAKEN ON EAST FLANGE)

2' REPAIRED CROSS BRACING ANGLE ON EAST BRACING CONNECTION.

**Bent 1 Pile 2****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	28	60	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	20' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	30 SF OF FAILED COATING.	4	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	60 SF OF FRECKLED RUST.	2	60	60 Square Feet

## General Comments

**Bent 1 Pile 3****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	0	0	1 Each
515	Steel Protective Coating	118	38	40	0	40 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	1" x 10" area of 1/8" section loss (3/8" remaining) on Span 2 flange at diagonal bracing connection (PAR)	4	1	1 Each
202	Connection	BRACING WELD ON EAST FLANGE IS 80% INEFFECTIVE.	3		1 Each
202	Corrosion	10' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2		Each
515	Effectiveness (Steel Protective Coatings)	40 SF OF FAILED COATING.	4	40	40 Square Feet
515	Effectiveness (Steel Protective Coatings)	40 SF OF FRECKLED RUST.	2	40	40 Square Feet

## General Comments

1' X 6" X 1/4" WELDED REPAIR PLATE ON THE WEST FACE AT BOTTOM OF PILE.

**Bent 1 Pile 4****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	83	20	0	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	10' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	15 SF OF FAILED COATING.	4	15	15 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

## General Comments

2' ANGLE PLATE WELDED REPAIR TO CROSS BRACING MEMBER AND PILE 4 ON THE WEST FACE.

**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	34	0	0	32	2 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Scour	19" x 12" x 5" high erosion with 9" deep undermining under End Bent 1 cap at East end (PAR)	4	2	2 Feet
215	Cracking (RC and Other)	24' X UP TO 1/16" HORIZONTAL CRACK THROUGHOUT EAST FACE OF ABUTMENT BETWEEN BEAMS 2 THROUGH 10. (PHOTO TAKEN BETWEEN BEAMS 3 AND 4)	3	15	24 Feet
215	Cracking (RC and Other)	8' X UP TO 1/16" HORIZONTAL CRACK IN ABUTMENT BACKWALL BETWEEN BEAMS 5 AND 7. (PHOTO TAKEN IN BETWEEN BEAMS 5 AND 6)	3	5	8 Feet

215	Delamination/Spall	(12) UP TO 18" X UP TO 3" X 1" SPALLS ON SOUTH BEAM INTERFACE IN ABUTMENT BACKWALL AT ALL BEAM ENDS. (PHOTO TAKEN IN BETWEEN BEAMS 5 AND 6)	3	12	16	Feet
215	Exposed Rebar	16" x 9" x UP TO 1 1/2" SPALL, WITH EXPOSED REINFORCING, WITH 20% LOSS OF SECTION OF EXPOSED REINFORCING UNDER Bay 6.	3		2	Feet
215	Cracking (RC and Other)	9' X UP TO 1/32" HORIZONTAL CRACK IN ABUTMENT BACKWALL BETWEEN BEAMS 8 THROUGH 11.	2			Feet
215	Exposed Rebar	4" DIAMETER X 1" SPALL, WITH EXPOSED REINFORCING, 6" FROM TOP OF CAP BETWEEN BEAMS 5 AND 6.	2		1	Feet

**General Comments**

13" X 5" X 6" X 1/2" ANGLE REPAIR AT NORTH END.

**End Bent 2****Cap 1****Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	19	15	0	0 Feet
515	Steel Protective Coating	197	197	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
231	Corrosion	15' surface rust on both flanges	2	15	Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	8	8 Square Feet

**General Comments****Bent 2****Cap 1****Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	9	25	0	0 Feet
515	Steel Protective Coating	197	97	20	0	80 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
231	Corrosion	25' OF SURFACE RUST WITH ISOLATED LOCATIONS FRECKLED RUST ON TOP AND BOTTOM FLANGES AND UP TO 5" IN WEB, AT RANDOM THROUGHOUT EAST AND WEST FACES.	2	25	Feet
515	Effectiveness (Steel Protective Coatings)	80 SF OF FAILED COATING.	4	80	80 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF FRECKLED RUST.	2	20	20 Square Feet

**General Comments****Bent 2****Pile 1****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	82	30	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	8' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	6 SF OF FAILED COATING.	4	6	6 Square Feet

515 Effectiveness (Steel Protective Coatings) 30 SF OF FRECKLED RUST. 2 30 30 Square Feet

**General Comments**

3' ANGLE PLATE WELDED REPAIR TO CROSS BRACING MEMBER ON EAST FACE AT MID SPAN.

(4) UP TO 2' X 10" X 1/2" WELDED REPAIR PLATES ON NORTH AND SOUTH FACES, AT SOIL INTERFACE. (PHOTO TAKEN NORTH FACE)

**Bent 2****Pile 2****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	78	20	0	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	12' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	20 SF OF FAILED COATING.	4	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments****Bent 2****Pile 3****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	86	20	0	12 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	8' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	16 SF OF FAILED COATING.	4	16	16 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments****Bent 2****Pile 4****Steel Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
202	Steel Column	1	0	1	0	0 Each
515	Steel Protective Coating	118	92	20	0	6 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
202	Corrosion	15' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	6 SF OF FAILED COATING.	4	6	6 Square Feet
515	Effectiveness (Steel Protective Coatings)	20 SF OF FRECKLED RUST.	2	20	20 Square Feet

**General Comments**

2' ANGLE PLATE WELDED REPAIR TO CROSS BRACING MEMBER AND PILE 4 ON THE WEST FACE.

**End Bent 2**

**Abutment**

**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	34	4	25	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Delamination/Spall	(5) UP TO 9" x 21" x 1 1/2" SPALLS and area of delamination ON NORTH BEAM INTERFACE IN ABUTMENT BACKWALL AT BEAM ENDS BETWEEN BEAMS 8 THROUGH 12.	3	5	7 Feet
215	Cracking (RC and Other)	(4) UP TO 2 1/2' X 1/32" VERTICAL CRACKS AT RANDOM THROUGHOUT WEST FACE OF ABUTMENT. (PHOTO TAKEN BENEATH BEAM 10)	2	9	Feet
215	Cracking (RC and Other)	15' X UP TO 1/32" HORIZONTAL ON WEST FACE OF UPPER ABUTMENT WALL BETWEEN BEAMS 8 THROUGH 11.	2	15	Feet
215	Exposed Rebar	4" x 2" x 1/2" deep spalls with exposed rebar at South end	2	1	1 Feet

**General Comments**

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	983
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	34
Span 1	Beam 12	Plate Girder	Steel Open Girder/Beam	34
Span 1	Left Bridge Rail	Steel Rail	Metal Bridge Railing	35
Span 1	Right Bridge Rail	Steel Rail	Metal Bridge Railing	35
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	972
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	1404
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	50

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 10	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 11	Plate Girder	Steel Open Girder/Beam	50
Span 2	Beam 12	Plate Girder	Steel Open Girder/Beam	50
Span 2	Left Bridge Rail	Steel Rail	Metal Bridge Railing	50
Span 2	Right Bridge Rail	Steel Rail	Metal Bridge Railing	50
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1388
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Deck	Steel Deck Corrugated	Steel Deck Corrugated/Orthotropic/Etc.	1124
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	39



## Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Beam 10	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	39
Span 3	Beam 12	Plate Girder	Steel Open Girder/Beam	39
Span 3	Left Bridge Rail	Steel Rail	Metal Bridge Railing	40
Span 3	Right Bridge Rail	Steel Rail	Metal Bridge Railing	40
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1110
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Steel Pier Cap	Steel Pier Cap	34
Bent 1	Pile 1	Steel Column	Steel Column	1
Bent 1	Pile 2	Steel Column	Steel Column	1
Bent 1	Pile 3	Steel Column	Steel Column	1
Bent 1	Pile 4	Steel Column	Steel Column	1
End Bent 1	Cap 1	Steel Pier Cap	Steel Pier Cap	34
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	34
Bent 2	Cap 1	Steel Pier Cap	Steel Pier Cap	34
Bent 2	Pile 1	Steel Column	Steel Column	1
Bent 2	Pile 2	Steel Column	Steel Column	1
Bent 2	Pile 3	Steel Column	Steel Column	1
Bent 2	Pile 4	Steel Column	Steel Column	1
End Bent 2	Cap 1	Steel Pier Cap	Steel Pier Cap	34
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	34

# General Inspection Notes

# National Bridge and NC Inspection Items

Structure Number: 280115

Inspection Date: 05/05/2021

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9, N	4
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	6

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

## NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		F		
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	Y
Inspection Time	Hours	7
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
Portion of Structure in > 3' of water	YES/NO	N

# National Bridge and NC SMU Inspection Item Details

**Structure Number:** 280115

**Inspection Date:** 05/05/2021

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<b>Item</b>	<b>Substructure - Item 60</b>	<b>Grade 5</b>	<b>Maint Code</b>	<b>Qty. 0</b>
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**Details** Temporary Shoring-Plates were welded to the following locations:  
End Bent 1 Cap, End Bent 1 Abutment, Bent 1 Cap, Bent 1 Pile 1, Bent 1 Pile 3, Bent 1 Pile 4, Bent 2 Pile 1, Bent 2 Pile 4,



Span 1 Wearing Surface: 45 square feet up to 1/4" transverse cracks



Span 1 Wearing Surface: (2) UP TO 35' x 1/2" LONGITUDINAL CRACKS IN Eastbound LANE.



Span 1 Right Bridge Rail: SURFACE RUST AT RANDOM THROUGHOUT GUARDRAIL AND CURB RAIL.



Span 2 Wearing Surface: 7' x 5' PATCHED AREA AT CENTERLINE OF ROADWAY AT BENT 1.



Span 2 Wearing Surface: 27' x UP TO 5' PATCHED AREA AT BENT 2 JOINT.



Span 3 Wearing Surface: (2) UP TO 5' x 3' PATCHED AREAS, IN Westbound LANE NEAR CENTERLINE, AT BENT 2 AND END BENT 2. (PHOTO TAKEN AT END BENT 2)



Span 3 Wearing Surface: MAP CRACKING UP TO 1/4" AT RANDOM THROUGHOUT ASPHALT WEARING SURFACE. (PHOTO TAKEN IN Eastbound LANE 1' FROM END BENT 2)



End Bent 2 Abutment: (5) UP TO 9" x 21" x 1 1/2" SPALLS and area of delamination ON NORTH BEAM INTERFACE IN ABUTMENT BACKWALL AT BEAM ENDS BETWEEN BEAMS 8 THROUGH 12.





End Bent 2 Abutment: (4) UP TO 2 1/2' x 1/32" VERTICAL CRACKS AT RANDOM THROUGHOUT WEST FACE OF ABUTMENT. (PHOTO TAKEN BENEATH BEAM 10)



End Bent 2 Abutment: 15' x UP TO 1/32" HORIZONTAL ON WEST FACE OF UPPER ABUTMENT WALL BETWEEN BEAMS 8 THROUGH 11.



End Bent 2 Cap 1: 15' surface rust on both flanges



Span 3 Beam 12: 20" x 1 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 11' from End Bent 2 (PAR)



Span 3 Beam 12: 6" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 9' from End Bent 2 (PAR)



Span 3 Beam 11: 7' x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange near midspan (PAR)



Span 3 Far Bearing: surface rust



Span 3 Beam 8: 15' OF peeling paint with rust ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT.



Span 3 Beam 7: 32" RUST SCALE TOP FLANGE WITH SECTION LOSS TO KNIFE'S EDGE AND 9" x 1" area of 100% section loss ON BOTH TOP FLANGES AT END BENT 2. (PAR)



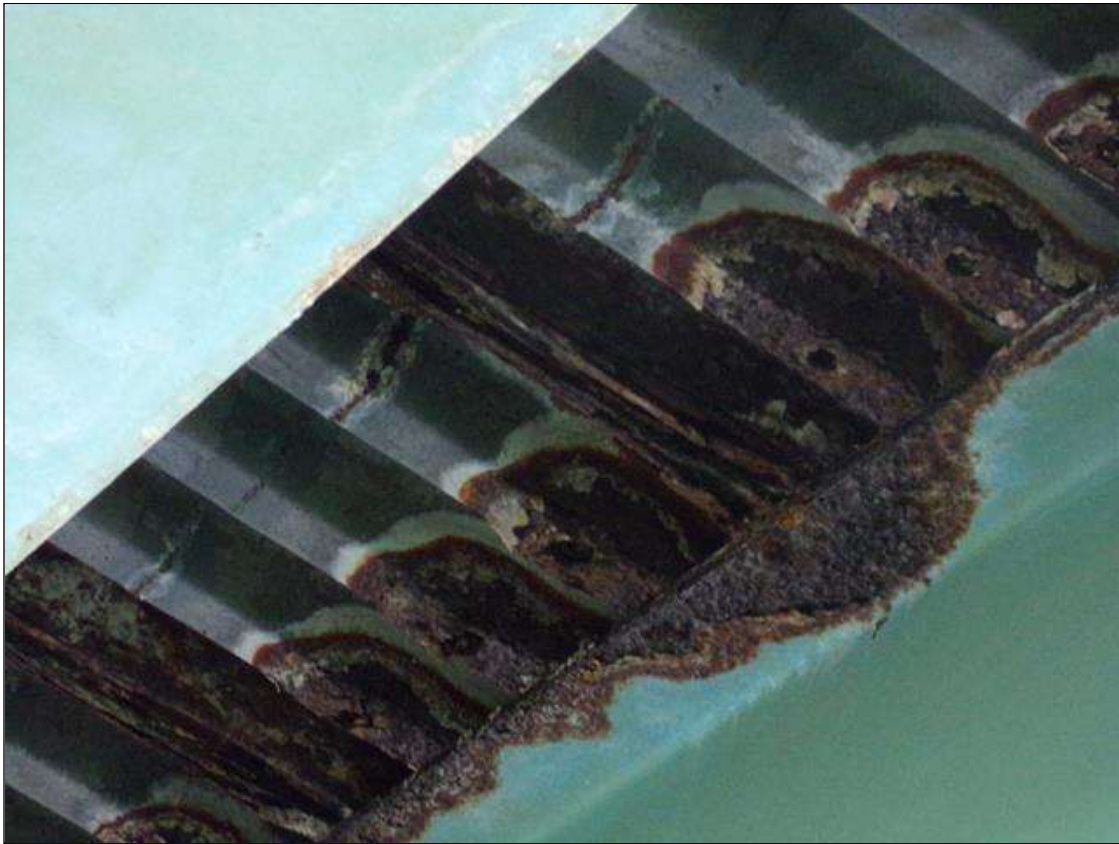
Span 3 Beam 7: 20' peeling paint with rust



Span 3 Beam 7: 15" x 1" area of 1/8" section loss (3/8" remaining) on left side of top flange, 6' from End Bent 2 (PAR)



Span 3 Beam 6: 4' RUST SCALE BOTTOM FLANGE UP TO 8" IN WEB WITH 1/4" REMAINING IN BOTTOM FLANGE AT END BENT 2. (PAR)



Span 3 Deck: 2 SF OF RUST SCALE WITH UP TO 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 6 AND 7, 6' FROM BENT 2. (PAR)



Span 3 Beam 6: 32" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange, 10' from Bent 2 (PAR)



Bent 2 Cap 1: 25' OF SURFACE RUST WITH ISOLATED LOCATIONS FRECKLED RUST ON TOP AND BOTTOM FLANGES AND UP TO 5" IN WEB, AT RANDOM THROUGHOUT EAST AND WEST FACES.



Bent 2 Pile 1: 8' OF FRECKLED RUST WITH ISOLATED LOCATIONS SURFACE RUST ON ALL SURFACES, AT RANDOM THROUGHOUT.





BENT 2 PILE 1: 3' ANGLE PLATE WELDED REPAIR TO CROSS BRACING MEMBER ON EAST FACE AT MID Span.



BENT 2 PILE 1: (4) UP TO 2' x 10" x 1/2" WELDED REPAIR PLATES ON NORTH AND SOUTH FACES, AT SOIL INTERFACE. (PHOTO TAKEN NORTH FACE)



Span 3 Beam 6: 15" x 2 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)



Span 2 Beam 6: 30" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange at Bent 2 (PAR)



Span 3 Beam 7: 18" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)



Span 2 Beam 7: 20" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)



Bent 1 Pile 1: 20' x 7' x 6' deep erosion on End Bent 1 slope



BENT 1 PILE 1: (3) UP TO 16" x 9" x 1/4" WELDED REPAIR PLATES ON EAST AND WEST FLANGES, 14' FROM BOTTOM OF CAP. (PHOTO TAKEN ON EAST FLANGE)



BENT 1 PILE 1: 2' REPAIRED CROSS BRACING ANGLE ON EAST BRACING CONNECTION.



BENT 1 PILE 3: 1' x 6" x 1/4" WELDED REPAIR PLATE ON THE WEST FACE AT BOTTOM OF PILE.



Bent 1 Pile 3: 1" x 10" area of 1/8" section loss (3/8" remaining) on Span 2 flange at diagonal bracing connection (PAR)



Span 1 Beam 6: 20" OF RUST SCALE ON NORTH AND SOUTH EDGE OF TOP FLANGE WITH 1/8" REMAINING AT BENT 1. (PAR)



Span 1 Beam 7: 14" x 3" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)



Span 1 Beam 7: 18" x 3" area of 1/8" section loss (3/8" remaining) on both sides of bottom flange at Bent 1 (PAR)



Span 2 Beam 7: 24" x 4" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)

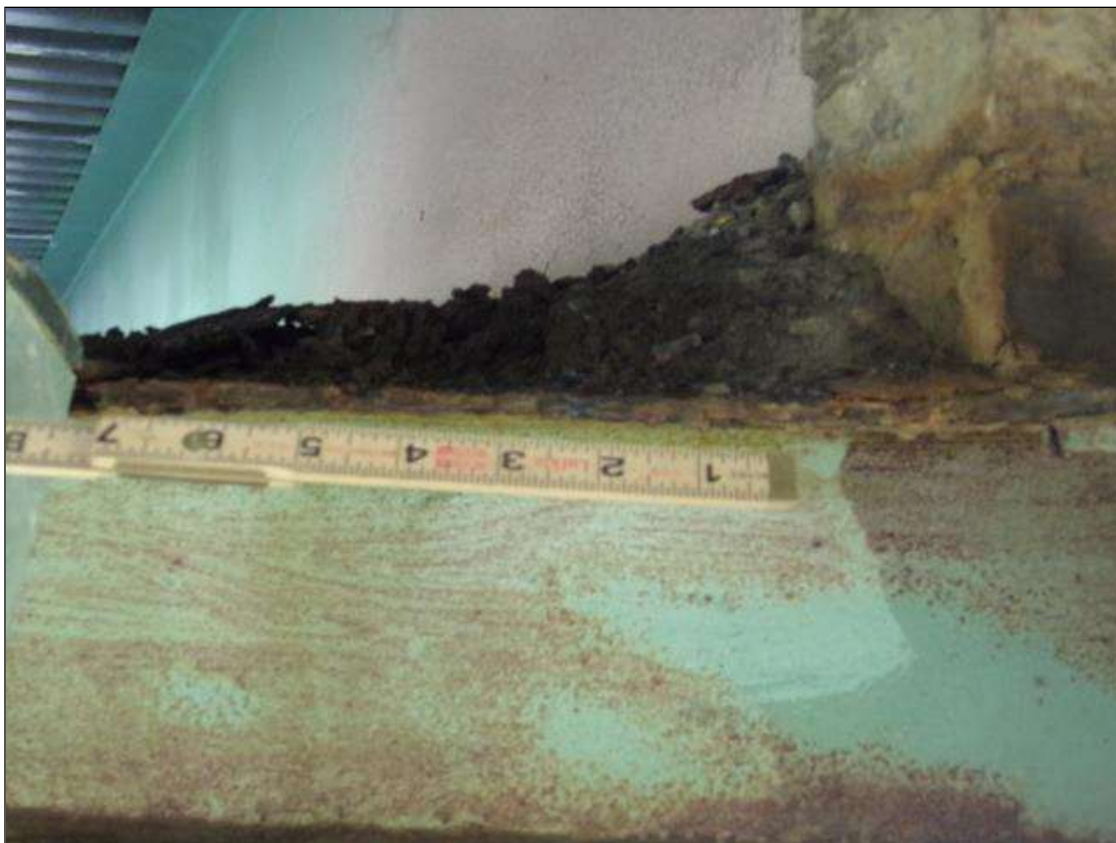


BENT 1 CAP: 29" x 5" x 4.5" x 1/2" THICK CAP REPAIR BETWEEN BEAMS 6 AND 7.

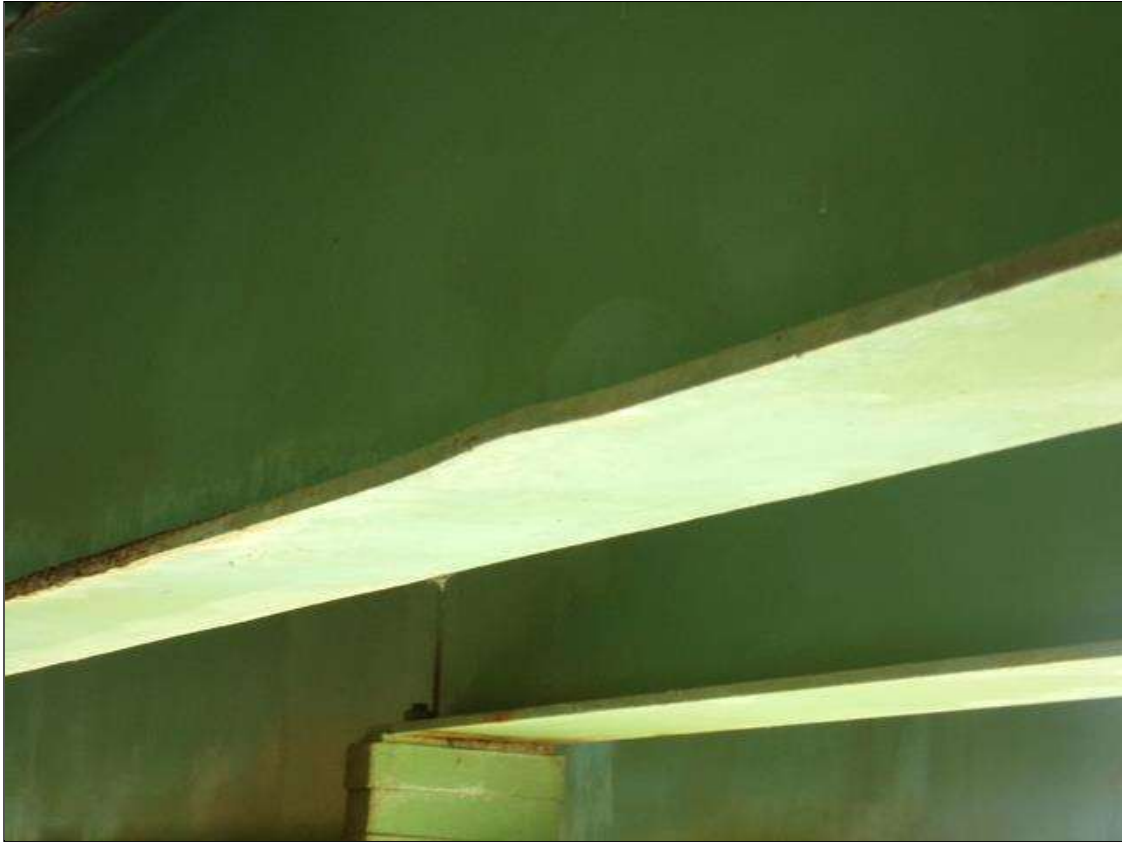




Span 1 Beam 5: 20" x 3 1/2" area of section loss (with knife edge remaining) on right side of top flange at Bent 1 (PAR)



Bent 1 Cap 1: 20" x 2" area of 1/4" section loss (1/4" remaining) on Span 1 side of top flange under Bay 6 (PAR)



Span 1 Beam 10: 12" x 1/4" upward deflection on left side of bottom flange, 12' from Bent 1



Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 10 AND 11 AT BENT 1. (PAR)



Span 1 Deck: 1/2 SF RUST SCALE WITH 1/8" REMAINING BEAMS 11 AND 12 AT BENT 1. (PAR)



Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 9 AND 10 AT BENT 1. (PAR)



Span 1 Deck: 1/2 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 8 AND 9 AT BENT 1. (PAR)



Span 1 Beam 1: 20' OF LIGHT SCALING WITH ISOLATED LOCATIONS SURFACE RUST ON TOP AND BOTTOM FLANGES, AT RANDOM THROUGHOUT. (PHOTO TAKEN NEAR MID Span)



END BENT 1 CAP: 1/4" WELDED PLATE REPAIR TO TOP FLANGE WITH ADDED ANGLE PLATES TO THE BOTTOM FLANGE AND WEB BETWEEN BEAMS 6 AND 7.



End Bent 1 Abutment: 16" x 9" x UP TO 1 1/2" SPALL, WITH EXPOSED REINFORCING, WITH 20% LOSS OF SECTION OF EXPOSED REINFORCING.



End Bent 1 Abutment: 24' x UP TO 1/16" HORIZONTAL CRACK THROUGHOUT EAST FACE OF ABUTMENT BETWEEN BEAMS 2 THROUGH 10. (PHOTO TAKEN BETWEEN BEAMS 3 AND 4)



End Bent 1 Abutment: (12) UP TO 18" x UP TO 3" x 1" SPALLS ON SOUTH BEAM INTERFACE IN ABUTMENT BACKWALL AT ALL BEAM ENDS. (PHOTO TAKEN IN BETWEEN BEAMS 5 AND 6)



End Bent 1 Abutment: 8' x UP TO 1/16" HORIZONTAL CRACK IN ABUTMENT BACKWALL BETWEEN BEAMS 5 AND 7. (PHOTO TAKEN IN BETWEEN BEAMS 5 AND 6)



End Bent 1 CAP: 13" x 5" x 6" x 1/2" ANGLE REPAIR AT NORTH END.



Span 1 Beam 1: 7' x 1" area of 1/16" section loss (7/16" remaining) on left side of top flange near midspan



End Bent 1 Abutment: 19" x 12" x 5" high erosion with 9" deep undermining under End Bent 1 cap at East end (PAR)



# Stream Bed Soundings

(Profile diagram on following sheet)

County **DAVIDSON**

Structure Number: **280115**

Inspection Date **05/10/2021**

Sounding recorded from: **Top of Bridge Rail**

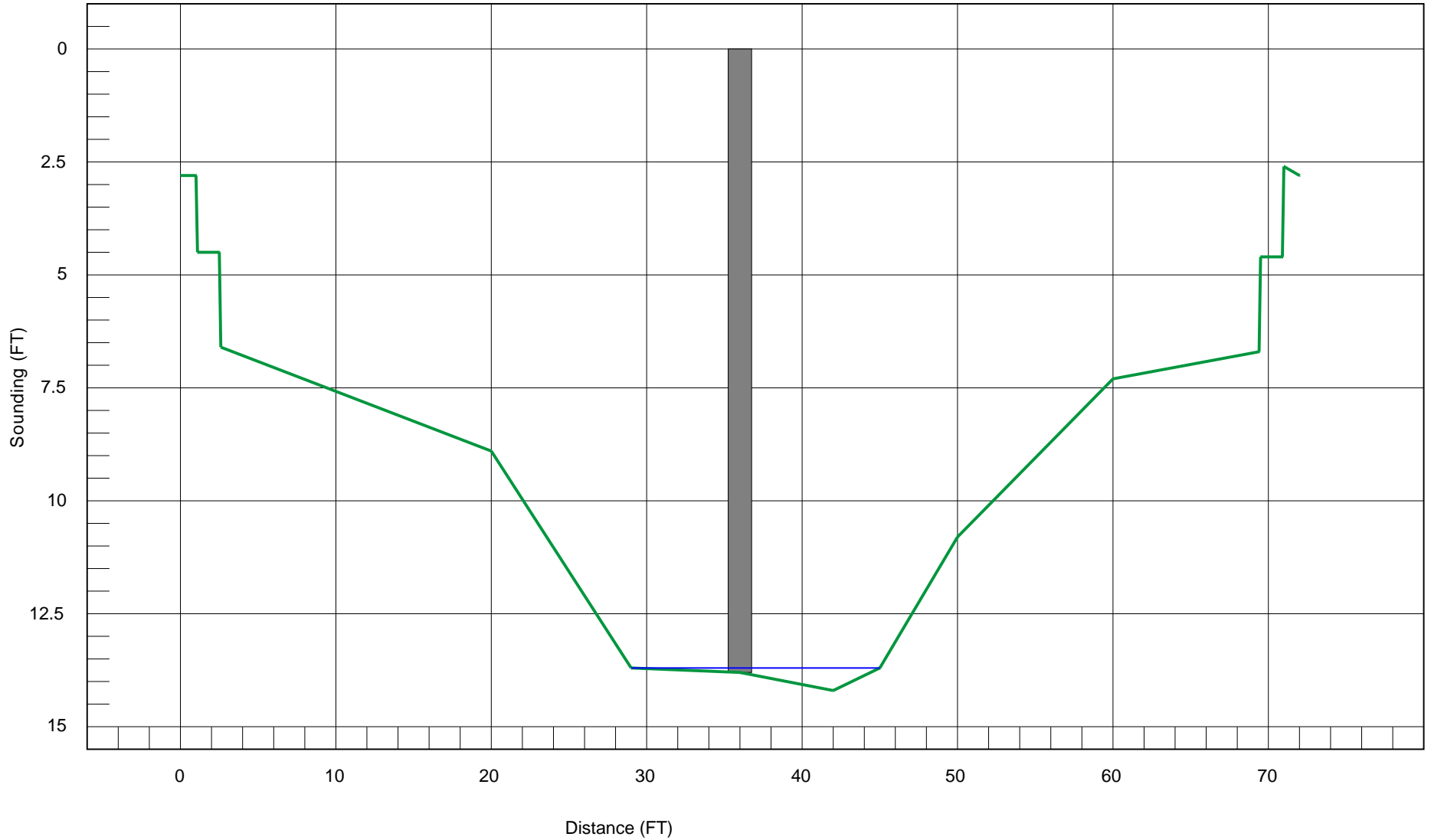
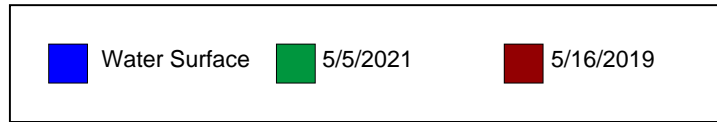
Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.800	0.000	TOP OF BACKWALL
1.000	2.800	0.000	TOP OF BACKWALL
1.100	4.500	0.000	TOP OF CAP
2.500	4.500	0.000	TOP OF CAP
2.600	6.600	6.200	FACE OF CAP
20.000	8.900	0.000	
29.000	13.700	0.000	WATER SURFACE/WATER EDGE (WS/WE)
36.000	13.800	13.800	BENT 1
42.000	14.200	0.000	
45.000	13.700	0.000	WATER SURFACE/WATER EDGE (WS/WE)
50.000	10.800	0.000	
60.000	7.300	0.000	
69.400	6.700	6.600	FACE OF CAP
69.500	4.600	0.000	TOP OF CAP
70.900	4.600	0.000	TOP OF CAP
71.000	2.600	0.000	TOP OF BACKWALL
72.000	2.800	0.000	TOP OF BACKWALL

### STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

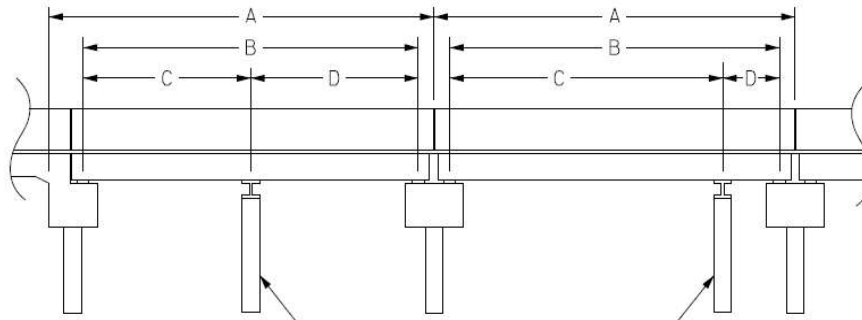


# Structure Data Worksheet

## Span Profile

County: **DAVIDSON**

Structure Number: **280115**



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

CRUTCH / HELPER BENTS

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	35.000	34.000			
2	50.000	49.580			
3	40.000	39.000			

Structure Number: 280115

Span: 1

Route Name: Railroad



South profile, looking North

<b>Route Number:</b> 80000000		<b>Route Name:</b> Railroad			<b>Reference Feature:</b> R	
<b>Minimum Vertical Clearance</b> 23.250 feet		<b>Maximum Minimum Vertical Clearance</b> feet				
<b>Total Horizontal Clearance</b> 25.300 feet		<b>Lateral Clearances: Left:</b> 10.000 feet		<b>Right:</b> 10.300 feet		
<input type="checkbox"/> <b>Base Highway Network</b>		<b>LRS Inventory Route, Sub Route Number</b>				
<b>Milepost:</b> 0.000	<b>Number of Lanes:</b>	<b>ADT:</b>	<b>Year of ADT:</b>	<b>Percentage of Trucks:</b> 0		
<input type="checkbox"/> <b>National Highway System</b>			<input type="checkbox"/> <b>STRAHNET Highway Designator</b>			
<b>Functional Classification</b>			<b>Direction of Traffic:</b>			



Looking West



Southeast delineator (All others similar)



Weight limit sign in East approach (West approach similar)



South bridge rail (North bridge rail similar)



Looking South



Overhead utilities on South and West sides of bridge



West approach



East approach





Looking North



Looking East



Southeast abutment extension (All others similar)



End Bent 2 (End Bent 1 similar)



End Bent bearing (Beam 10, End Bent 2 shown)



Intermediate diaphragm



(3) 4" diameter utilities in Bay 3



(3) 4" diameter utilities in Bay 1



Underside of superstructure (Span 2 shown)



North profile, looking South



South profile, looking North



Bent bearing (Beam 8, Bent 1 shown)



Bent 1 (Bent 2 similar)



North structure profile



South structure profile
















# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 5: 20" x 3 1/3" area of section loss with knife edge remaining on right side of top flange at Bent 1 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 6: 20" OF RUST SCALE ON NORTH AND SOUTH EDGE OF TOP FLANGE WITH 1/8" REMAINING AT BENT 1. (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 7: 14" x 3" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 1 Beam 7: 18" x 3" area of 1/8" section loss (3/8" remaining) on both sides of bottom flange at Bent 1 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	3	Span 2 Beam 6: 30" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange at Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 7: 20" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 2 Beam 7: 24" x 4" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 6: 15" x 2 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	3	Span 3 Beam 6: 32" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange, 10' from Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	3	Span 3 Beam 6: 4' RUST SCALE BOTTOM FLANGE UP TO 8" IN WEB WITH 1/4" REMAINING IN BOTTOM FLANGE AT END BENT 2. (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 7: 18" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 7: 15" x 1" area of 1/8" section loss (3/8" remaining) on left side of top flange, 6' from End Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	3	Span 3 Beam 7: 32" RUST SCALE TOP FLANGE WITH SECTION LOSS TO KNIFE'S EDGE ON SOUTH TOP FLANGE AND 9" x 1" area of 100% section loss ON BOTH SIDES OF TOP FLANGE AT END BENT 2. (PAR)	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined












# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	7	Span 3 Beam 11: 7' x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange near midspan (PAR)	
 3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 12: 20" x 1 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 11' from End Bent 2 (PAR)	
 3314	Maintain Steel Superstructure Components	LF	1	Span 3 Beam 12: 6" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 9' from End Bent 2 (PAR)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	1	Span 1 Deck: 1/2 SF RUST SCALE WITH 1/8" REMAINING BEAMS 11 AND 12 AT BENT 1. (PAR)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	1	Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 10 AND 11 AT BENT 1. (PAR)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	1	Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 9 AND 10 AT BENT 1. (PAR)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	1	Span 1 Deck: 1/2 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 8 AND 9 AT BENT 1. (PAR)	
 3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	2	Span 3 Deck: 2 SF OF RUST SCALE WITH UP TO 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 6 AND 7, 6' FROM BENT 2. (PAR)	
 3350	Maint R C Wings and Walls	SF	2	End Bent 1 Abutment: 19" x 12" x 5" high erosion with 9" deep undermining under End Bent 1 cap at East end (PAR)	
 3354	Maintain Steel Substructure Components	LF	2	Bent 1 Cap 1: 20" x 2" area of 1/4" section loss (1/4" remaining) on Span 1 side of top flange under Bay 6 (PAR)	
 3354	Maintain Steel Substructure Components	LF	1	Bent 1 Pile 3: 1" x 10" area of 1/8" section loss (3/8" remaining) on Span 2 flange at diagonal bracing connection (PAR)	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Beam 5: 20" x 3 1/3" area of section loss with knife edge remaining on right side of top flange at Bent 1 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Beam 6: 20" OF RUST SCALE ON NORTH AND SOUTH EDGE OF TOP FLANGE WITH 1/8" REMAINING AT BENT 1. (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Beam 7: 14" x 3" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Beam 7: 18" x 3" area of 1/8" section loss (3/8" remaining) on both sides of bottom flange at Bent 1 (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 2 Beam 6: 30" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange at Bent 2 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 2 Beam 7: 20" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 2 Beam 7: 24" x 4" area of 1/4" section loss (1/4" remaining) on both sides of top flange at Bent 1 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 6: 15" x 2 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 6: 32" x 3" area of 1/8" section loss (3/8" remaining) on right side of top flange, 10' from Bent 2 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 6: 4' RUST SCALE BOTTOM FLANGE UP TO 8" IN WEB WITH 1/4" REMAINING IN BOTTOM FLANGE AT END BENT 2. (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 7: 18" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange at Bent 2 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 7: 15" x 1" area of 1/8" section loss (3/8" remaining) on left side of top flange, 6' from End Bent 2 (PAR)		



## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 7: 32" RUST SCALE TOP FLANGE WITH SECTION LOSS TO KNIFE'S EDGE ON SOUTH TOP FLANGE AND 9" x 1" area of 100% section loss ON BOTH SIDES OF TOP FLANGE AT END BENT 2. (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	7      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 11: 7' x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange near midspan (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 12: 20" x 1 1/2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 11' from End Bent 2 (PAR)		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Beam 12: 6" x 2" area of 1/8" section loss (3/8" remaining) on both sides of top flange, 9' from End Bent 2 (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	1      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Deck: 1/2 SF RUST SCALE WITH 1/8" REMAINING BEAMS 11 AND 12 AT BENT 1. (PAR)		

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	1      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 10 AND 11 AT BENT 1. (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	1      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Deck: 1 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 9 AND 10 AT BENT 1. (PAR)		

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	1      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 1 Deck: 1/2 SF RUST SCALE WITH 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 8 AND 9 AT BENT 1. (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

County DAVIDSON

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

MMS Code	MMS Description	Quantity
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	2      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Span 3 Deck: 2 SF OF RUST SCALE WITH UP TO 100% LOSS OF SECTION AND CONCRETE DECK EXPOSED BETWEEN BEAMS 6 AND 7, 6' FROM BENT 2. (PAR)		

MMS Code	MMS Description	Quantity
3350	Maint R C Wings and Walls	2      SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M Simpson	
Details		
End Bent 1 Abutment: 19" x 12" x 5" high erosion with 9" deep undermining under End Bent 1 cap at East end (PAR)		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 280115

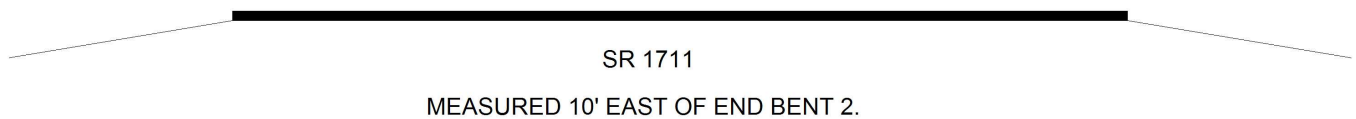
County DAVIDSON

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

MMS Code	MMS Description	Quantity
3354	Maintain Steel Substructure Components	2      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Bent 1 Cap 1: 20" x 2" area of 1/4" section loss (1/4" remaining) on Span 1 side of top flange under Bay 6 (PAR)		

MMS Code	MMS Description	Quantity
3354	Maintain Steel Substructure Components	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/07/2021	Jonathan M. Simpson	
Details		
Bent 1 Pile 3: 1" x 10" area of 1/8" section loss (3/8" remaining) on Span 2 flange at diagonal bracing connection (PAR)		

# Bridge Inspection Field Sketch



Roadway	26ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2.5ft Wide		2.5ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail			
Right Guardrail			

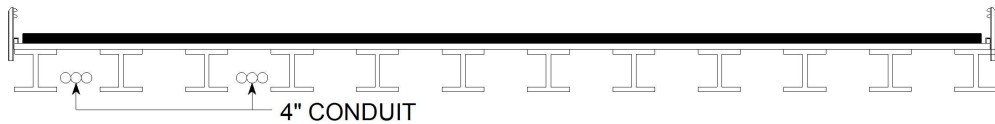
QCQA done 6/3/19 by Derek Rickus

SKETCH VERIFIED 05/05/2021 BY JMS

<b>Title</b> APPROACH ROADWAY		<b>Description</b> WEST APPROACH, LOOKING EAST	
<b>Bridge No:</b> 280115	<b>Drawn By:</b> JWT	<b>Date:</b> 05/13/2013	<b>File Name:</b> S0090000126

# Bridge Inspection Field Sketch

Deck Width/Out to Out	28.299ft	Between Rails	28.417ft
Clear Roadway	27.75ft	Wearing Surface	0.333ft
Median Width		Median Height	
Curb Height		Left	0.458ft *
Sidewalk Width		Right	0.458ft *
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	0.75ft
Bridge Rail		Right	0.75ft
		Left	2.167ft
		Right	2.167ft
		Left	Type 23
		Right	Type 23



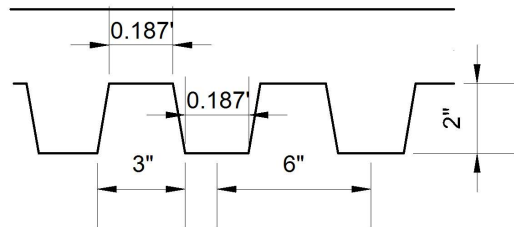
Measurements for Span #	1		
Deck Thickness	.250	Left Overhang	0.625
Top of Rail to Bottom of Beam	4.167	Right Overhang	0.625

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.459ft	NO CURVED GIRDERS
2	Steel I Beam	2.459ft	
3	Steel I Beam	2.459ft	
4	Steel I Beam	2.459ft	
5	Steel I Beam	2.459ft	
6	Steel I Beam	2.459ft	
7	Steel I Beam	2.459ft	
8	Steel I Beam	2.459ft	
9	Steel I Beam	2.459ft	
10	Steel I Beam	2.459ft	
11	Steel I Beam	2.459ft	
12	Steel I Beam	ft	

\*Measurement Modified

ABUTS: RC CAP ON 12" STEEL PILES.

	BEAMS	WIDTH	HEIGHT	FLANGE	WEB
	ALL SPAN A	.625	1.5	.042	.031
	ALL SPAN B	.75	2.0	.042	.031
	ALL SPAN C	.687	1.75	.042	.031



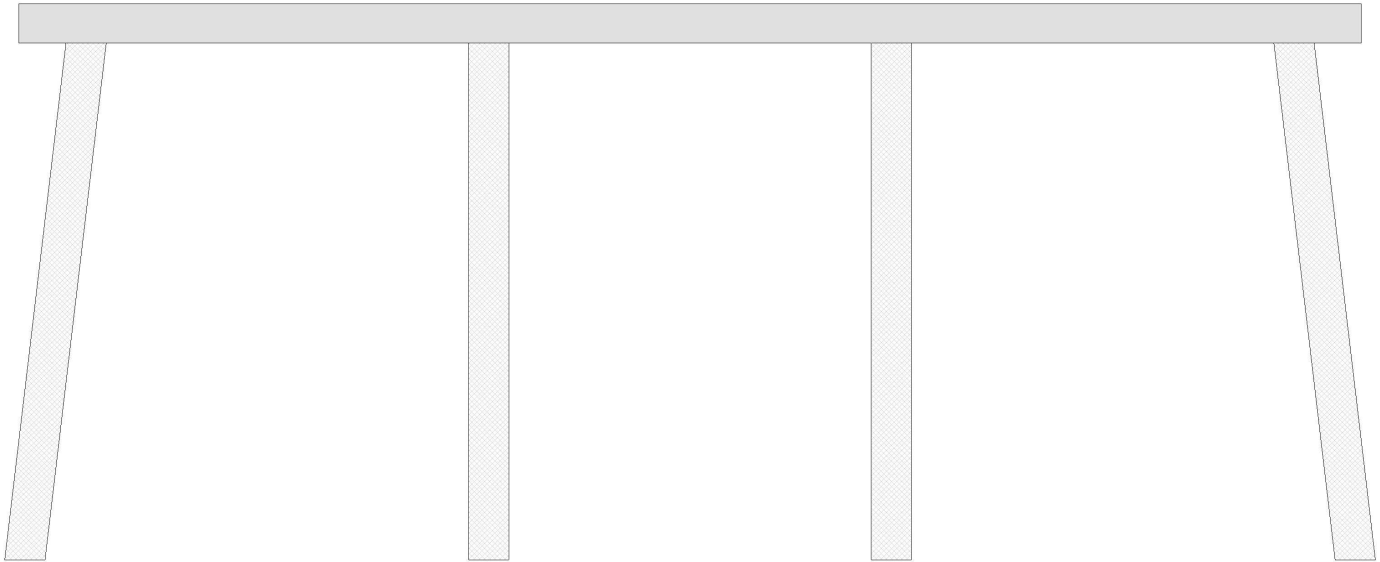
QCQA done 6/3/19 by Derek Rickus

SKETCH MODIFIED 05/05/2021

<b>Title</b> TYPICAL SECTION	<b>Description</b> SPAN 1, LOOKING EAST
Bridge No: 280115	Drawn By: JWT
Date: 05/13/2013	File Name: S0090000127



# Bridge Inspection Field Sketch



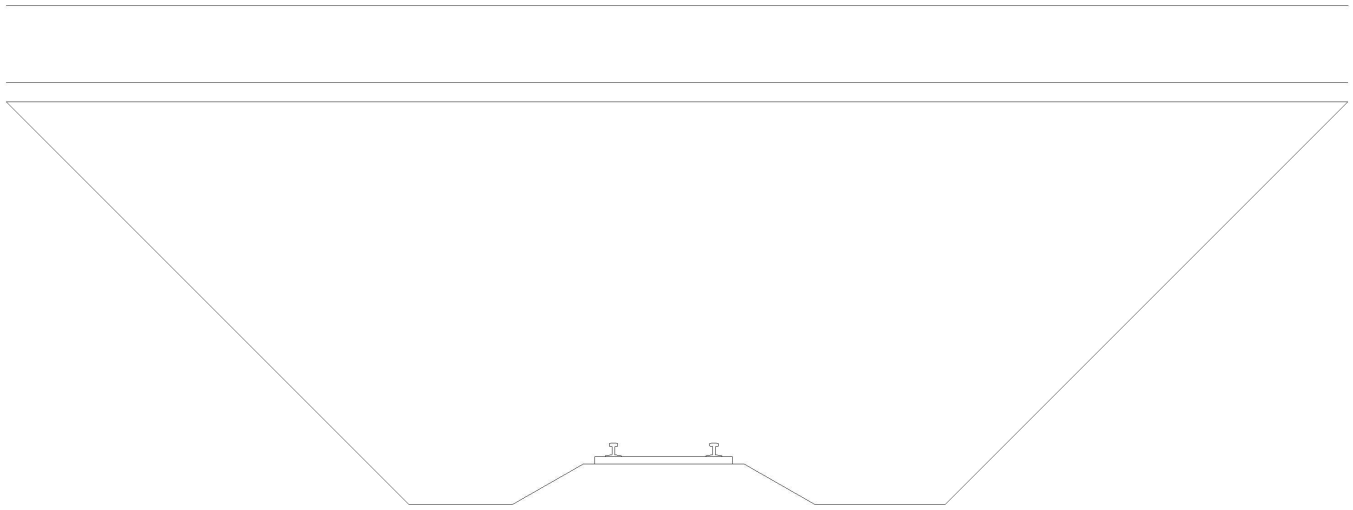
Cap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
33.333 ft.	1.000 ft.	.980 ft.	1.667 ft.	1.667 ft.	1.083 ft.	1.083 ft.				
			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Steel	10.0 ft.	1 ft.		1 ft.	Battered	No	No	No	No
2	Steel	10.0 ft.	1 ft.		1 ft.	Vertical	No	No	No	No
3	Steel	10.0 ft.	1 ft.		1 ft.	Vertical	No	No	No	No
4	Steel		1 ft.		1 ft.	Battered	No	No	No	No
Bent/Abutment #: 2			Similar Bents: 1							

QCQA done 6/3/19 by Derek Rickus

SKETCH VERIFIED 05/05/2021

<b>Title</b>		<b>Description</b>			
SUBSTRUCTURE		BENT 2, LOOKING EAST			
Bridge No: 280115	Drawn By: HMS	Date: 05/09/13	File Name: S0090000128		

# Bridge Inspection Field Sketch



Measurements Under Span 2 (of 3)			
Rail to Rail	5ft	1 set of tracks	Looking: NORTH
Vertical Clearance	23.25ft	Measured from rail 2	at Beam # 1
Distance to Left Bent			
Distance to Left Toe of Slope	10ft		
Distance to Right Bent			
Distance to Right Toe of Slope	10.3ft		

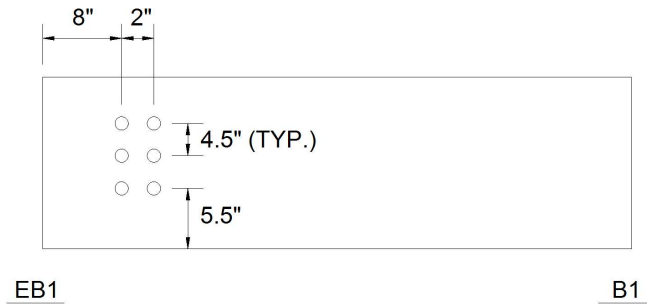
QCQA done 6/3/19 by Derek Rickus

SKETCH VERIFIED 05/05/2021

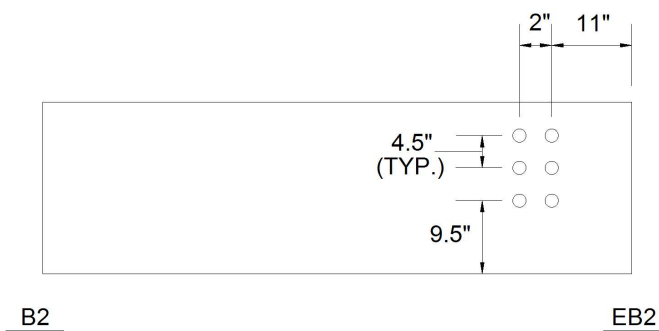
<b>Title</b> VERTICAL CLEARANCE		<b>Description</b> CLEARANCE OVER RAILWAY	
Bridge No: 280115	Drawn By: HMS	Date: 05/09/13	File Name: S0090000129

# Bridge Inspection Field Sketch

## SALVAGE BEAMS



SPAN 1 BEAM 1



SPAN 3 BEAM 12

ALL HOLES ARE 3/4" DIAMETER.

QCQA done 6/3/19 by Derek Rickus

**Title**

SALVAGE BEAMS

**Description**

SALVAGE BEAMS

Bridge No: 280115

Drawn By: JM

Date: 5/20/2019

File Name: S0614000140