



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: PAR Submitted, Changes to Structure Data, Temporary Shoring

# Structure Safety Report

## Routine Element Inspection - Contract

INSPECTION DATE: 05/08/2020

DIVISION: 12 COUNTY: IREDELL STRUCTURE NUMBER: 480165 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1601 MILE POST: \_\_\_\_\_

LOCATION: 0.1 MI. S. JCT. SR1598

FEATURE INTERSECTED: ROCKY CREEK

LATITUDE: 36° 1' 9.55" LONGITUDE: 81° 0' 36.48"

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

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

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

FRACTURE CRITICAL  TEMPORARY SHORING  SCOUR CRITICAL  SCOUR PLAN OF ACTION

NBI GRADES: DECK 6 SUPERSTRUCTURE 5 SUBSTRUCTURE 6 CULVERT N

POSTED SV: 21 21 POSTED TTST: 24 24

OTHER SIGNS PRESENT: Four [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 S-N

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

South approach looking North

INSPECTED BY JAMES TALACEK	SIGNATURE 	ASSISTED BY JAKE PRATT, EI MARK FERGUSON
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

07/15/2020

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE **480165**  
 (8) STRUCTURE NUMBER (FEDERAL) **0970165**  
 (5) INVENTORY ROUTE (ON/UNDER) ON **131016010**  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT **12**  
 (3) COUNTY CODE (FEDERAL) **97** (4) PLACE CODE **00000**  
 (6) FEATURE INTERSECTED **ROCKY CREEK**  
 (7) FACILITY CARRIED **SR1601**  
 (9) LOCATION **0.1 MI. S. JCT. SR1598**  
 (11) MILEPOINT **0.0**  
 (12) BASE HIGHWAY NETWORK **0**  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE **36° 1' 9.55"** (17) LONGITUDE **81° 0' 36.48"**  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING **58.30**

STATUS =

**CLASSIFICATION**

**CODE**

(112) NBIS BRIDGE SYSTEM **YES**  
 (104) HIGHWAY SYSTEM **Inventory Route not on NHS 0**  
 (26) FUNCTIONAL CLASS **Rural Local 09**  
 (100) STRAHNET HIGHWAY **Not a STRAHNET Route 0**  
 (101) PARALLEL STRUCTURE **No parallel structure exists N**  
 (102) DIRECTION OF TRAFFIC **2-way traffic 2**  
 (103) TEMPORARY STRUCTURE  
 (110) DESIGNATED NATIONAL NETWORK - **on national network for trucks 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 **8**  
 (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 **6**  
 (59) SUPERSTRUCTURE **5**  
 (60) SUBSTRUCTURE **6**  
 (61) CHANNEL & CHANNEL PROTECTION **7**  
 (62) CULVERTS **N**

**LOAD RATING AND POSTING**

**CODE**

(31) DESIGN LOAD **Unknown 0**  
 (63) OPERATING RATING METHOD - **Load Factor 1**  
 (64) OPERATING RATING - **HS-16 31**  
 (65) INVENTORY RATING METHOD - **1**  
 (66) INVENTORY RATING **HS-11 21**  
 (70) BRIDGE POSTING **Posting Required 3**  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED  
 DESCRIPTION **Posted for Load P**

**AGE AND SERVICE**

(27) YEAR BUILT **1965**  
 (106) YEAR RECONSTRUCTED **0**  
 (42) TYPE OF SERVICE ON - **Highway**  
 OFF - **Waterway** CODE **15**  
 (28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **0**  
 (29) AVERAGE DAILY TRAFFIC **450**  
 (30) YEAR OF ADT **2005** (109) TRUCK ADT PCT **6**  
 (19) BYPASS OR DETOUR LENGTH **3.0**

**APPRAISAL**

**CODE**

(67) STRUCTURAL EVALUATION **5**  
 (68) DECK GEOMETRY **4**  
 (69) UNDERCLEARANCES, VERT & HORIZ **N**  
 (71) WATERWAY ADEQUACY **5**  
 (72) APPROACH ROADWAY ALIGNMENT **4**  
 (36) TRAFFIC SAFETY FEATURES **0000**  
 (113) SCOUR CRITICAL BRIDGES **U**

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN **30.0**  
 (49) STRUCTURE LENGTH **89.0**  
 (50) CURB OR SIDEWALK: LEFT **0.3** RIGHT **0.3**  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB **24.3**  
 (52) DECK WIDTH OUT TO OUT **25.2**  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) **21.0**  
 (33) BRIDGE MEDIAN **No median** CODE **0**  
 (34) SKEW **20** (35) STRUCTURE FLARED **0**  
 (10) INVENTORY ROUTE MIN VERT CLEAR **999.9**  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR **24.3**  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY **9999.0**  
 (54) MIN VERT UNDERCLEAR: REFERENCE **0.0**  
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE **N 0.0**  
 (56) MIN LAT UNDERCLEARANCE LT: **0.0**

**PROPOSED IMPROVEMENTS**

**CODE**

(75) TYPE OF WORK  
 (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 **900** YEAR OF FUTURE ADT **2040**

**NAVIGATION DATA**

(38) NAVIGATION CONTROL - CODE **0**  
 (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 **05/18** (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

## Superstructure Build Details

Span Number 1

Span Length 30.7500

Skew 70.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
7	Plate Girder	Steel Open Girder/Beam	217 Feet	Unknow	1001
2	Timber Rail	Timber Bridge Railing	62 Feet		
1	Timber Deck	Timber Deck	762 Square Feet		
14	Other Bearing	Other Bearings	14 Each	Unknow	14
1	Asphalt Wearing Surface	Wearing Surface	746 Square Feet		

Span Number 2

Span Length 30.0000

Skew 70.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
14	Other Bearing	Other Bearings	14 Each	Unknow	14
7	Plate Girder	Steel Open Girder/Beam	210 Feet	Unknow	1001
1	Timber Deck	Timber Deck	756 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	728 Square Feet		
2	Timber Rail	Timber Bridge Railing	60 Feet		

Span Number 3

Span Length 28.2500

Skew 70.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Timber Deck	Timber Deck	711 Square Feet		
7	Plate Girder	Steel Open Girder/Beam	196 Feet	Unknow	888
1	Asphalt Wearing Surface	Wearing Surface	686 Square Feet		
14	Other Bearing	Other Bearings	14 Each	Unknow	14
2	Timber Rail	Timber Bridge Railing	58 Feet		

# Structure Element Scoring

Structure Number: 480165

Inspection Date 5/8/2020

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	2229	2114	115	0	0
107	0	Steel Open Girder/Beam	Beam	623	65	24	534	0
515	107	Steel Protective Coating	Beam	2890	64	1700	488	638
216	0	Timber Abutment	Abutments	72	72	0	0	0
228	0	Timber Pile	Piles and Columns	16	2	14	0	0
235	0	Timber Pier Cap	Caps	149	0	147	2	0
316	0	Other Bearings	Bearing Device	42	0	28	14	0
515	316	Steel Protective Coating	Bearing Device	42	0	0	28	14
332	0	Timber Bridge Railing	Bridge Rail	180	0	176	0	4
510	0	Wearing Surface	Wearing Surfaces	2160	0	0	2160	0



# Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **480165**

Inspection Date: **05/08/2020**

<b>MMS Code</b>	<b>Element Name</b>	<b>Defect Name</b>	<b>Recommended Quantity</b>
3314	Steel Open Girder/Beam	Corrosion	479 Feet
3344	Timber Pier Cap	Decay/Section Loss	2 Feet
3334	Other Bearings	Corrosion	13 Each
3316	Timber Bridge Railing	Decay/Section Loss	2 Feet
3316	Timber Bridge Railing	Damage	2 Feet
2816	Wearing Surface	Crack (Wearing Surface)	2160 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1168 Square Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	1700 Square Feet

## Element Structure Maintenance Quantities

Structure Number: **480165**

Inspection Date **05/08/2020**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	0	72	0	0	0	72
Beam	3314	Maintenance Steel Superstructure Components	479	623	0	534	24	65
Beam	3342	Clean and Paint Steel	2826	2890	638	488	1700	64
Bearing Device	3334	Bridge Bearing	13	42	0	14	28	0
Bearing Device	3342	Clean and Paint Steel	42	42	14	28	0	0
Bridge Rail	3316	Maintenance of Timber Bridge Rail	4	180	4	0	176	0
Caps	3344	Maintenance To Timber Substrcutre	2	149	0	2	147	0
Deck	3324	Maintenance of Timber Deck Components	0	2229	0	0	115	2114
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	16	0	0	14	2
Wearing Surfaces	2816	Asphalt Surface Repair	2160	2160	0	2160	0	0

# Priority Actions Request

Structure Number 480165

## Span3

3316	Left Bridge Rail	Timber Rail		
Priority Level	Defect Type	Quantity	Defect Description	
2	Damage	1	Span 3 Left Bridge Rail: [PAR] at End Bent 2, vertical end board missing	
2	Decay/Section Loss	1	Span 3 Left Bridge Rail: [PAR] at 2rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	
2	Decay/Section Loss	1	Span 3 Left Bridge Rail: [PAR] at 3rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	
3316	Right Bridge Rail	Timber Rail		
Priority Level	Defect Type	Quantity	Defect Description	
2	Damage	1	Span 3 Right Bridge Rail: [PAR] at End Bent 2, vertical end board missing	
3314	Beam 1	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	1	Span 3 Beam 1: [PAR] lower web at 3ft from End Bent 2, active corrosion with section loss [11in x up to 2in high x 3/16in avg rem]	
3314	Beam 3	Plate Girder		
Priority Level	Defect Type	Quantity	Defect Description	
2	Corrosion	4	Span 3 Beam 3: [PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]	

## Element Condition and Maintenance Data

Structure Number: 480165

Inspection Date: 05/08/2020

### Span 1 Deck Timber Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
31	Timber Deck	762	732	30	0	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
31	Decay/Section Loss	along East and West ends of deck boards, areas of decay/soft timber [less than 10%]	2	30		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	746	0	0	746	0	Square Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	throughout asphalt wearing surface, multiple transverse cracks and longitudinal cracks [up to full width x up to full length x up to 5/8in]	3	746	746	Square Feet

**General Comments**

### Span 1 Left Bridge Rail Timber Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	31	0	31	0	0	Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Check/Shake	along top of curb, multiple checks [up to 3/8in x up to 1in deep]	2	31		Feet
332	Check/Shake	at all vertical posts, multiple checks [up to 1/8in x up to 1in deep]	2			Feet

**General Comments**

### Span 1 Right Bridge Rail Timber Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	31	0	31	0	0	Feet

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Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Check/Shake	along top of curb, multiple checks [up to 3/8in x up to 1-1/2in deep]	2	28		Feet
332	Split/Delamination (Timber)	at near end, split [3ft long x up to 3in high x up to 1in deep]	2	3		Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	0	31	0 Feet
515	Steel Protective Coating	143	0	73	0	70 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]	3	31	31 Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	70	70 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking paint	2	73	73 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 1****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	0	31	0 Feet
515	Steel Protective Coating	143	0	112	0	31 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **480165**

Inspection Date: **05/08/2020**

<b>107</b>	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]	3	31	31	Feet
<b>515</b>	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	31	31	Square Feet
<b>515</b>	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking paint	2	112	112	Square Feet

**General Comments**

**Span 1** **Beam 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 1** **Beam 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	31	0	0	31	0 Feet
515	Steel Protective Coating	143	0	50	62	31 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>107</b>	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	31	31 Feet
<b>107</b>	Corrosion	along bottom flange and lower web, active surface corrosion [no section loss]	2		Feet
<b>515</b>	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	31	31 Square Feet
<b>515</b>	Effectiveness (Steel Protective Coatings)	along bottom flange and lower web, paint failure with active corrosion	3	62	62 Square Feet
<b>515</b>	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking paint	2	50	50 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	31	0	0	31	0	Feet
515	Steel Protective Coating	143	0	50	62	31	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	31	31	Feet
107	Corrosion	along bottom flange and lower web, active surface corrosion [no section loss]	2			Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	31	31	Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and lower web, paint failure with active corrosion	3	62	62	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	50	50	Square Feet

**General Comments**

**Span 1****Beam 4 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****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	31	0	6	25	0 Feet
515	Steel Protective Coating	143	4	52	62	25 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem]	3	25	Feet
107	Corrosion	along top flange, bottom flange, and lower web, active surface corrosion [no section loss]	2	6	Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	25	25 Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and lower web, paint failure with active corrosion	3	62	62 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	52	52 Square Feet

**General Comments**



**Span 1****Beam 5 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****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	31	0	0	31	0 Feet
515	Steel Protective Coating	143	0	50	62	31 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	31	31 Feet
107	Corrosion	along bottom flange, active surface corrosion [no section loss]	2		Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	31	31 Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange, paint failure with active corrosion	3	62	62 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	50	50 Square Feet

**General Comments**

**Span 1****Beam 6 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

**General Comments****Span 1****Beam 6 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	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	31	0	0	31	0	Feet
515	Steel Protective Coating	143	0	112	0	31	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]	3	31	31	Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	31	31	Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)	along beam, areas of peeling/flaking paint	2	112	112	Square Feet

**General Comments****Span 1****Beam 7 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<b>316</b>	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1	Square Feet

**General Comments**

**Span 1 Beam 7 Far Bearing**  
**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

**General Comments**

**Span 2 Deck**  
**Timber Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
31	Timber Deck	756	716	40	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>31</b>	Decay/Section Loss	along East and West ends of deck boards, areas of decay/soft timber [less than 10%]	2	40	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	728	0	0	728	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>510</b>	Crack (Wearing Surface)	throughout asphalt wearing surface, multiple transverse cracks and longitudinal cracks [up to full width x up to full length x up to 1/4in]	3	728	728 Square Feet

**General Comments**

**Span 2 Left Bridge Rail**  
**Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
332	Timber Bridge Railing	30	0	30	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>332</b>	Check/Shake	along top of curb, multiple checks [up to 1/2in x up to 1in deep]	2	30	Feet

**General Comments**

**Span 2 Right Bridge Rail****Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
332	Timber Bridge Railing	30	0	30	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
332	Check/Shake	along top of curb, multiple checks [up to 3/8in x up to 1 1/2in deep]	2	30	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	30	0	10	20	0 Feet
515	Steel Protective Coating	143	10	53	60	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	20	20 Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2	10	Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	60	60 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	53	53 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 2** **Beam 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	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	30	15	0	15	0	Feet
515	Steel Protective Coating	143	15	83	30	15	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	15	15	Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2			Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	15	15	Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	30	30	Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	83	83	Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

**General Comments**

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 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	30	15	0	15	0 Feet
515	Steel Protective Coating	143	15	83	30	15 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	15	15 Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2		Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	15	15 Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	30	30 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	83	83 Square Feet

**General Comments**

**Span 2** **Beam 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 2** **Beam 3 Far Bearing**  
**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 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	30	10	0	20	0 Feet
515	Steel Protective Coating	143	10	83	30	20 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	20	20 Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2		Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	20	20 Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	30	30 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	83	83 Square Feet

**General Comments**

**Span 2** **Beam 4 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 2** **Beam 4 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	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	30	10	0	20	0	Feet
515	Steel Protective Coating	143	10	83	30	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	20	20	Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2			Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	20	20	Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	30	30	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	83	83	Square Feet

**General Comments**

**Span 2** **Beam 5 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

**General Comments**



**Span 2** **Beam 5 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	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	30	15	0	15	0	Feet
515	Steel Protective Coating	143	0	83	30	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem]	3	15	15	Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2			Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and web, paint failure with active corrosion	3	30	30	Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	83	83	Square Feet

**General Comments****Span 2** **Beam 6 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	Square Feet

**General Comments**

**Span 2** **Beam 6 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	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active surface corrosion [no section loss]	2	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1	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	30	0	0	30	0	Feet
515	Steel Protective Coating	143	0	83	30	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem] and lower web [up to 3in high x 11/32in avg rem]	3	30		Feet
107	Corrosion	along bottom flange and web, active surface corrosion [no section loss]	2			Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	along bottom flange and lower web, paint failure with active corrosion	3	30	30	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking painting	2	83	83	Square Feet

**General Comments**

**Span 2** **Beam 7 Near Bearing**  
**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1	Square Feet

**General Comments**

**Span 2** **Beam 7 Far Bearing**  
**Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

General Comments

**Span 3** **Deck**  
**Timber Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
31	Timber Deck	711	666	45	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
31	Decay/Section Loss	along East and West ends of deck boards, areas of decay/soft timber [less than 10%]	2	45	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	686	0	0	686	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	throughout asphalt wearing surface, multiple transverse cracks and longitudinal cracks [up to full width x up to full length x up to 1/4in]	3	686	686 Square Feet

General Comments

**Span 3** **Left Bridge Rail**  
**Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
332	Timber Bridge Railing	29	0	26	0	3 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
332	Damage	[PAR] at End Bent 2, vertical end board missing	4	1	1 Feet
332	Decay/Section Loss	[PAR] at 2rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	4	1	1 Feet
332	Decay/Section Loss	[PAR] at 3rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	4	1	1 Feet
332	Check/Shake	along top of curb, multiple checks [up to 1/4in x up to 1in deep]	2	26	Feet

General Comments

**Span 3 Right Bridge Rail****Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
332	Timber Bridge Railing	29	0	28	0	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
332	Damage	[PAR] at End Bent 2, vertical end board missing	4	1	1 Feet
332	Check/Shake	along top of curb, multiple checks [up to 1/4in x up to 1in deep]	2	28	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	28	0	0	28	0 Feet
515	Steel Protective Coating	132	0	62	0	70 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	[PAR] lower web at 3ft from End Bent 2, active corrosion with section loss [11in x up to 2in high x 3/16in avg rem]	3	1	1 Feet
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 3/8in avg rem], bottom flange [full width x 13/32in avg rem], and lower web [up to 6in high x 5/16in avg rem]	3	27	27 Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss and section loss	4	70	70 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, areas of peeling/flaking paint	2	62	62 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	28	0	0	28	0 Feet
515	Steel Protective Coating	120	0	92	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 5/8in avg rem] with edges down to [5/16in]	3	28	28 Feet
107	Corrosion	along bottom flange and web, spot rust [no section loss]	2		Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	along beam, paint failure with spot rust	2	92	92 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	28	0	0	28	0 Feet
515	Steel Protective Coating	132	0	104	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	[PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]	3	4	4 Feet
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 1/2in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 6in high x 5/16in avg rem]	3	24	24 Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	104	104 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	28	0	8	20	0 Feet
515	Steel Protective Coating	120	0	92	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 5/8in avg rem] with edges down to [5/16in]	3	20	20 Feet
107	Corrosion	along bottom flange and web, spot rust [no section loss]	2	8	Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	92	92 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	28	0	0	28	0 Feet
515	Steel Protective Coating	132	0	104	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 13/32in avg rem] bottom flange [full width x 13/32in avg rem]	3	28	28 Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	104	104 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	28	0	0	28	0 Feet
515	Steel Protective Coating	120	0	92	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 5/8in avg rem] with edges down to [5/16in]	3	28	28 Feet
107	Corrosion	along bottom flange and web, spot rust [no section loss]	2		Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	92	92 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	28	0	0	28	0 Feet
515	Steel Protective Coating	132	0	104	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	along beam, active corrosion with section loss: top flange [full width x 3/8in avg rem], bottom flange [full width x 13/32in avg rem], and lower web [up to 4in high x 11/32in avg rem]	3	28	28 Feet
515	Effectiveness (Steel Protective Coatings)	along beam, paint failure with active corrosion and section loss	4	28	28 Square Feet
515	Peeling/Bubbling/Crack	along beam, areas of peeling/flaking painting (steel Protective Coatings)	2	104	104 Square Feet

**General Comments**

**Span 3** **Beam 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 3 Beam 1 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

**General Comments****Span 3 Beam 2 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

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

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1 Square Feet

**General Comments****Span 3 Beam 4 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 3 Beam 4 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	active surface corrosion [no section loss]	2	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 3 Beam 5 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **480165**Inspection Date: **05/08/2020**

<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 3 Beam 5 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 3 Beam 6 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments****Span 3 Beam 6 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	1	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>316</b>	Corrosion	active surface corrosion [no section loss]	2	1	Each
<b>515</b>	Effectiveness (Steel Protective Coatings)	paint failure with active surface corrosion	3	1	1 Square Feet

**General Comments**

**Span 3** **Beam 7 Near Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1	Square Feet

**General Comments**

**Span 3** **Beam 7 Far Bearing****Other Bearing**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	active corrosion with section loss [up to 1/32in]	3	1		Each
515	Effectiveness (Steel Protective Coatings)	paint failure with active corrosion and section loss	4	1	1	Square Feet

**General Comments**

**End Bent 1** **Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	7	0	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/8in deep]	2	7		Feet

**General Comments**

**End Bent 1** **Cap 2****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	20	0	20	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/8in deep]	2	20		Feet

**General Comments**

**End Bent 1****Pile 1****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/4in deep]	2	1	Each

General Comments

**End Bent 1****Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/4in deep]	2	1	Each

General Comments

**End Bent 1****Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/4in deep]	2	1	Each

General Comments

**End Bent 1****Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/4in deep]	2	1	Each

General Comments

**Bent 1****Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	19	0	18	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **480165**

Inspection Date: **05/08/2020**

<b>235</b>	Decay/Section Loss	top left corner at West end, decay [9in x 7in x 2in]	3	1	1	Feet
<b>235</b>	Check/Shake	along cap, multiple checks [up to 1/16in x 1/2in deep]	2	18		Feet

**General Comments**

**Bent 1 Cap 2**  
**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	9	0	9	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>235</b>	Check/Shake	along cap, multiple checks [up to 1/16in x 1/2in deep]	2	8	Feet
<b>235</b>	Check/Shake	along cap, multiple checks [up to 1/16in x 1/2in deep]	2	9	Feet

**General Comments**

**Bent 1 Pile 1**  
**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>228</b>	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/2in deep]	2	1	Each

**General Comments**

**Bent 1 Pile 2**  
**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>228</b>	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/2in deep]	2	1	Each

**General Comments**

pile encased [3ft diameter]

**Bent 1 Pile 3**  
**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<b>228</b>	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/2in deep]	2	1	Each

**General Comments**

**Bent 1** **Pile 4**  
**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/2in deep]	2	1	Each

General Comments

**End Bent 1** **Sub Cap 1**  
**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	10	0	9	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Decay/Section Loss	at 4ft from pile 2, decay [6in x 4in x up to 1.5in deep]	3	1	1 Feet
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/8in deep]	2	9	Feet

General Comments

**Bent 1** **Sub Cap 1**  
**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	10	0	10	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/8in deep]	2	10	Feet

General Comments

**End Bent 2** **Cap 1**  
**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	20	0	20	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/4in deep]	2	20	Feet

General Comments

**End Bent 2** **Cap 2**  
**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	7	0	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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**235** Check/Shake along cap, multiple checks [up to 1/32in x 1/4in deep] 2 7 Feet

**General Comments**

**End Bent 2 Pile 1**

**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [up to 1/16in x 1/2in deep]	2	1	Each

**General Comments**

**End Bent 2 Pile 2**

**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [up to 1/16in x 1/2in deep]	2	1	Each

**General Comments**

**Bent 2 Cap 1**

**Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	27	0	27	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Check/Shake	along cap, multiple checks [up to 1/16in x 1/2in deep]	2	27	Feet

**General Comments**

build subcap [10ft long] add notes:  
along subcap, multiple checks [up to 1/8in x 2in deep]

**Bent 2 Pile 1**

**Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1/2in deep]	2	1	Each

**General Comments**

pile encased [3ft diameter]

**Bent 2****Pile 2****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1in deep]	2	1	Each

**General Comments**

similar at 3 and 4

**Bent 2****Pile 3****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1in deep]	2	1	Each

**General Comments****Bent 2****Pile 4****Timber Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
228	Timber Pile	1	0	1	0	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
228	Check/Shake	along pile, multiple checks [full height x 1/16in x up to 1in deep]	2	1	Each

**General Comments****Bent 2****Sub Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	10	0	10	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Check/Shake	along cap, multiple checks [up to 1/8in x up to 2in deep]	2	10	Feet

**General Comments****End Bent 2****Sub Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	10	0	10	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
235	Check/Shake	along cap, multiple checks [up to 1/32in x 1/4in deep]	2	10	Feet

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**General Comments**



## Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	762
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	31
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	31
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	31
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	31
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	746
Span 1	Beam 1 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 1 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 2 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 2 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 3 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 3 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 4 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 4 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 5 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 5 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 6 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 6 Near Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 7 Far Bearing	Other Bearing	Other Bearings	1
Span 1	Beam 7 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Timber Deck	Timber Deck	756
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	30
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	30
Span 2	Left Bridge Rail	Timber Rail	Timber Bridge Railing	30
Span 2	Right Bridge Rail	Timber Rail	Timber Bridge Railing	30
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	728
Span 2	Beam 1 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 1 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 2 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 2 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 3 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 3 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 4 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 4 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 5 Far Bearing	Other Bearing	Other Bearings	1

## Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Beam 5 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 6 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 6 Near Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 7 Far Bearing	Other Bearing	Other Bearings	1
Span 2	Beam 7 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Deck	Timber Deck	Timber Deck	711
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	28
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	28
Span 3	Left Bridge Rail	Timber Rail	Timber Bridge Railing	29
Span 3	Right Bridge Rail	Timber Rail	Timber Bridge Railing	29
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	686
Span 3	Beam 1 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 1 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 2 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 2 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 3 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 3 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 4 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 4 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 5 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 5 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 6 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 6 Near Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 7 Far Bearing	Other Bearing	Other Bearings	1
Span 3	Beam 7 Near Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	19
Bent 1	Cap 2	Timber Pier Cap	Timber Pier Cap	9
Bent 1	Sub Cap 1	Timber Pier Cap	Timber Pier Cap	10
Bent 1	Pile 1	Timber Pile	Timber Pile	1
Bent 1	Pile 2	Timber Pile	Timber Pile	1
Bent 1	Pile 3	Timber Pile	Timber Pile	1
Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	7
End Bent 1	Cap 2	Timber Pier Cap	Timber Pier Cap	20
End Bent 1	Sub Cap 1	Timber Pier Cap	Timber Pier Cap	10
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	36

## Elements Verified

<b>Location</b>	<b>Name</b>	<b>Component</b>	<b>Element Name</b>	<b>Amount</b>
Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	27
Bent 2	Sub Cap 1	Timber Pier Cap	Timber Pier Cap	10
Bent 2	Pile 1	Timber Pile	Timber Pile	1
Bent 2	Pile 2	Timber Pile	Timber Pile	1
Bent 2	Pile 3	Timber Pile	Timber Pile	1
Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	20
End Bent 2	Cap 2	Timber Pier Cap	Timber Pier Cap	7
End Bent 2	Sub Cap 1	Timber Pier Cap	Timber Pier Cap	10
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	36

# General Inspection Notes

Bent 1

Abutment

East soldier pile replaced

---

# National Bridge and NC Inspection Items

Structure Number: 480165

Inspection Date: 05/08/2020

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

## NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C		0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	200	3352
Scour	G, F, P, or C	F		
Wingwall	G, F, P, or C	G	2	3350
Field Scour Evaluation		U		
Drift	G, F, P, or C	F	8	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		U		

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	10
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

# National Bridge and NC SMU Inspection Item Details

**Structure Number:** 480165

**Inspection Date:** 05/08/2020

<b>Item</b>	Slope Protection	<b>Grade</b>	F	<b>Maint Code</b>	3352	<b>Qty.</b>	200
<b>Details</b>	End Bent 2 slope protection, missing and slumped into water [20ft x 10ft]						
<b>Item</b>	Drift	<b>Grade</b>	F	<b>Maint Code</b>	3366	<b>Qty.</b>	8
<b>Details</b>	At bent 2 piles, drift accumulation [up to 6in diameter]						
<b>Item</b>	Scour	<b>Grade</b>	F	<b>Maint Code</b>		<b>Qty.</b>	0
<b>Details</b>	at both embankments, cut banks [8ft high]						
<b>Item</b>	Wingwalls	<b>Grade</b>	G	<b>Maint Code</b>	3350	<b>Qty.</b>	2
<b>Details</b>	Northeast wingwall along round soldier pile, multiple checks [up to 1/8in x up to 1in deep] Southeast wingwall at top of soldier pile, decay [40% x up to 3in deep] Southwest wingwall along soldier pile around exterior, decay [up to 2in deep x full circumference]						
<b>Item</b>	General Comments and Misc Items	<b>Grade</b>		<b>Maint Code</b>		<b>Qty.</b>	0
<b>Details</b>	Throughout South and North approach asphalt, alligator cracking, transverse cracks, an longitudinal cracks [up to full width x up to 1/8in]. Asphalt over end bent 1, transverse crack [full width x up to 3/16in]. [Similar at End Bent 2]						



Scour: at both embankments, cut banks [8ft high]



asphalt over end bent 1, transverse crack [full width x up to 3/16in]





Span 1 Wearing Surface: throughout asphalt wearing surface, multiple transverse cracks and longitudinal cracks [up to full width x up to full length x up to 5/8in]



Span 3 Deck: along East and West ends of deck boards, areas of decay/soft timber [less than 10%]





Span 1 Right Bridge Rail: along top of curb, multiple checks [up to 3/8in x up to 1.5in deep]



Span 3 Right Bridge Rail: [PAR] at End Bent 2, vertical end board missing





Span 3 Left Bridge Rail: [PAR] at End Bent 2, vertical end board missing



Span 3 Left Bridge Rail: [PAR] at 3rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection





Span 3 Left Bridge Rail: [PAR] at 2rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection



Southwest wingwall along soldier pile around exterior, decay [up to 2in deep] x full circumference



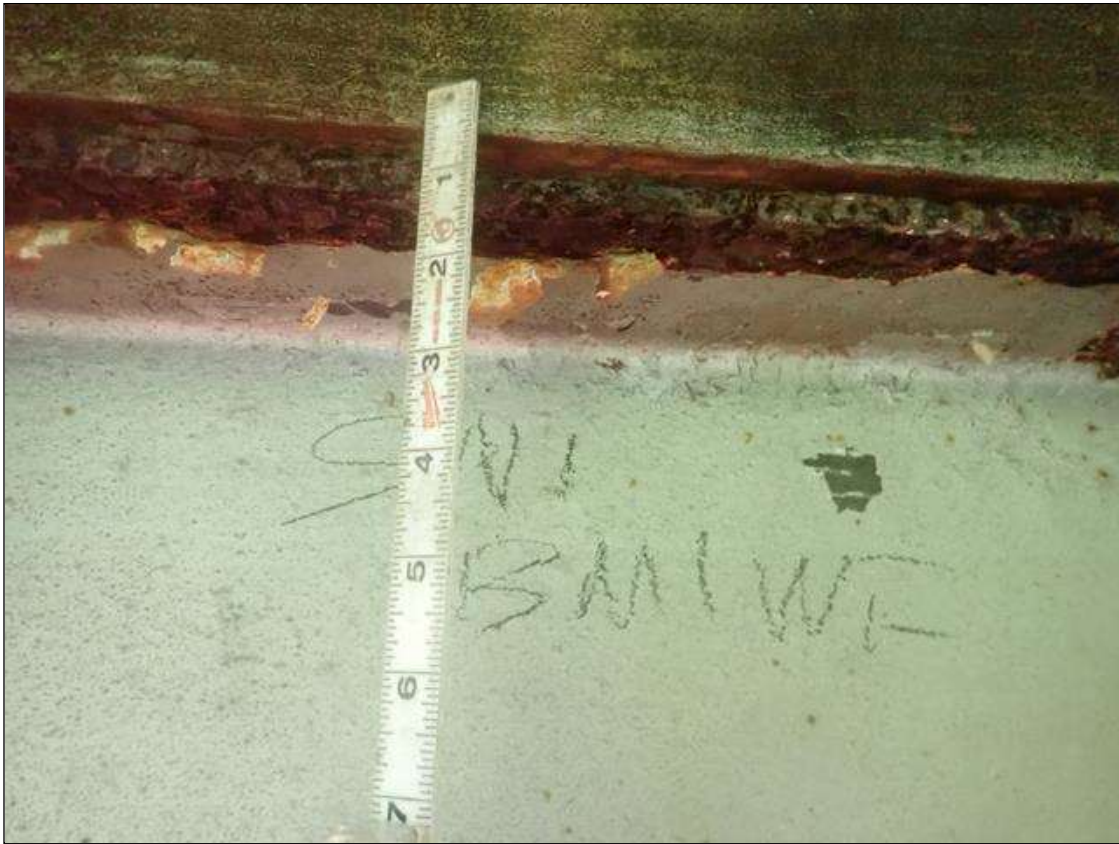


Bent 1 Cap 2: at 4ft from pile 2, decay [6in x 4in x up to 1.5in deep]



Span 1 Beam 1: along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]





Span 1 Beam 1: along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]



Span 1 Beam 1: along beam, active corrosion with section loss: top flange [full width x 17/32in avg rem], bottom flange [full width x 17/32in avg rem], and lower web [up to 5in high x 11/32in avg rem]



Span 1 Beam 1 Near Bearing: throughout bearing, active surface corrosion [no section loss]



Span 1 Beam 4 Near Bearing: throughout bearing, active corrosion with section loss [up to 1/32in]



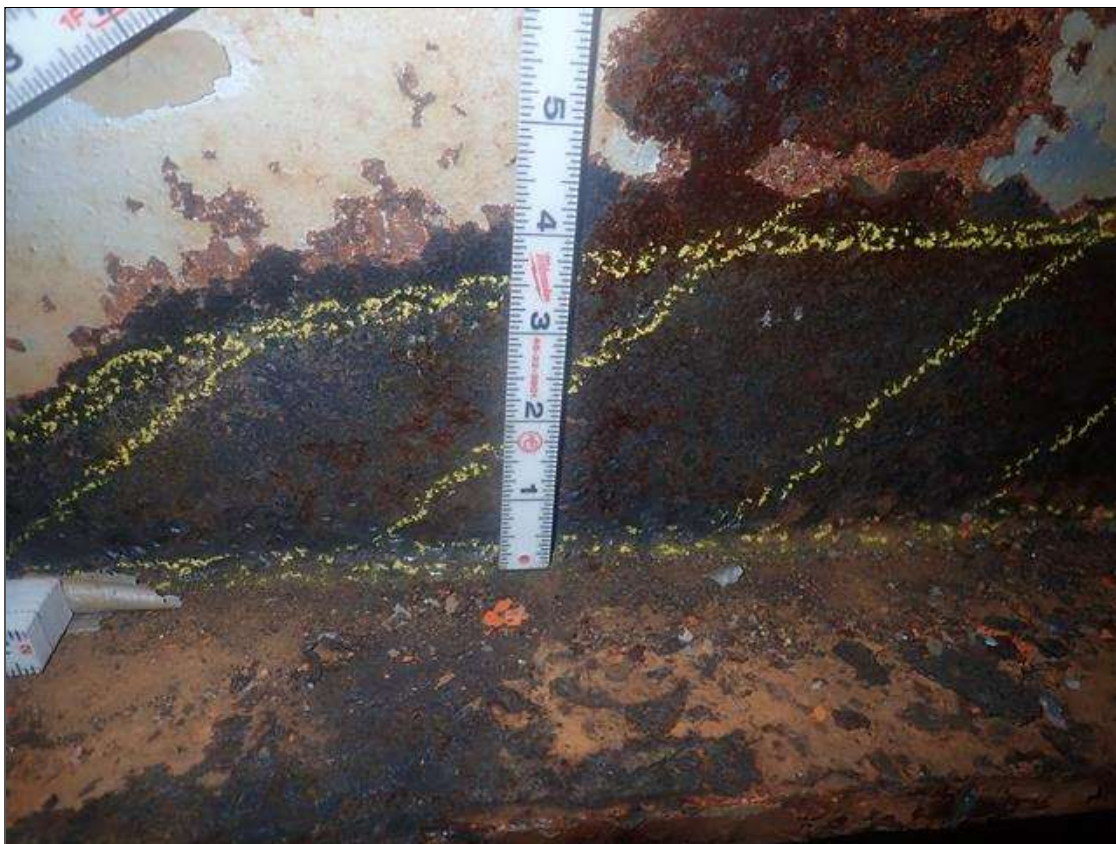


Bent 1 Cap 1: top left corner at West end, decay [9in x 7in x 2in]



Span 3 Beam 1: [PAR] lower web at 3ft from End Bent 2, active corrosion with section loss [1in x up to 2in high x 3/16in avg rem]





Span 3 Beam 3: [PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]



Span 3 Beam 3: [PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]





At bent 2 piles, drift accumulation [up to 6in]

# Stream Bed Soundings

(Profile diagram on following sheet)

County **IREDELL**

Structure Number: **480165**

Inspection Date **05/11/2020**

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

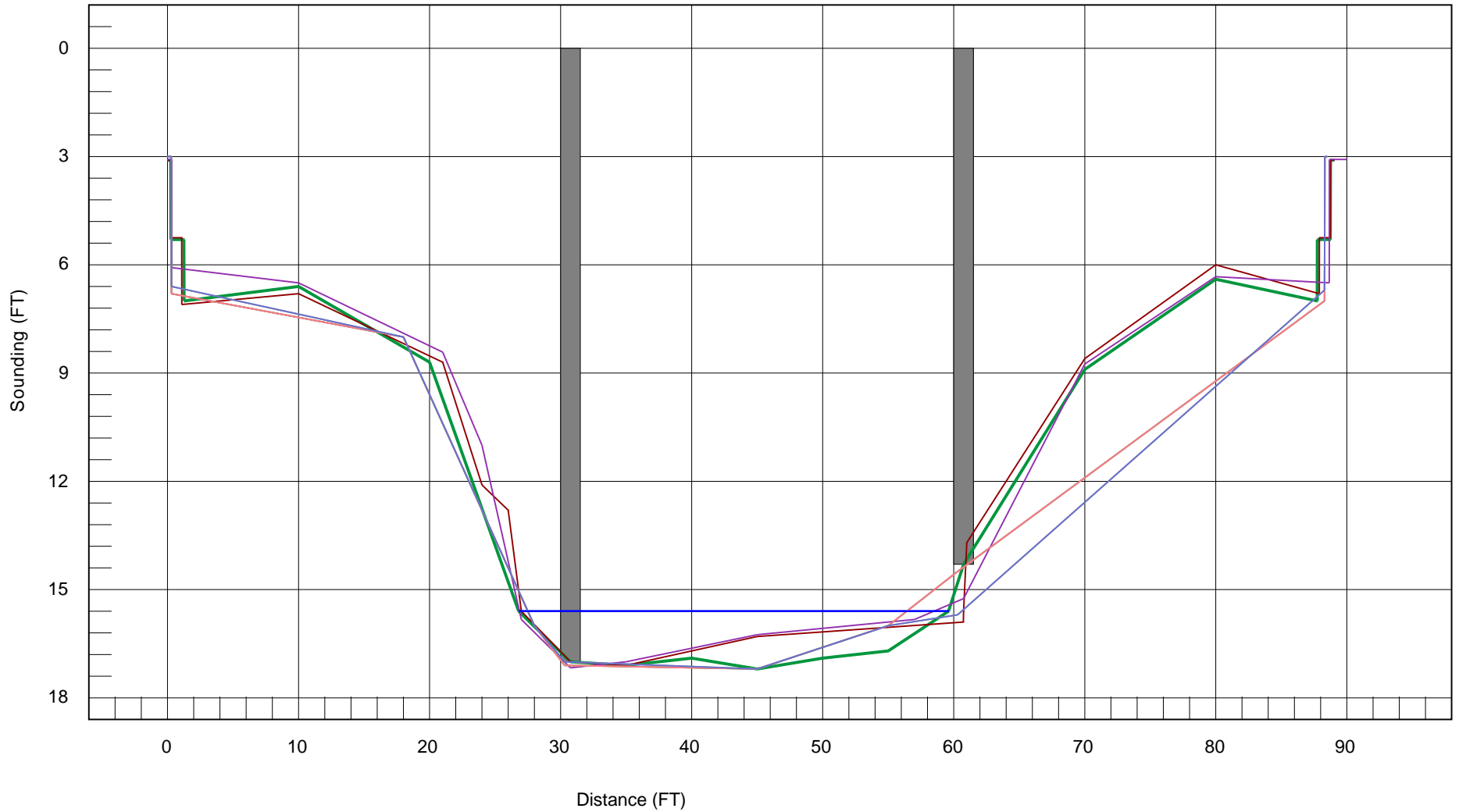
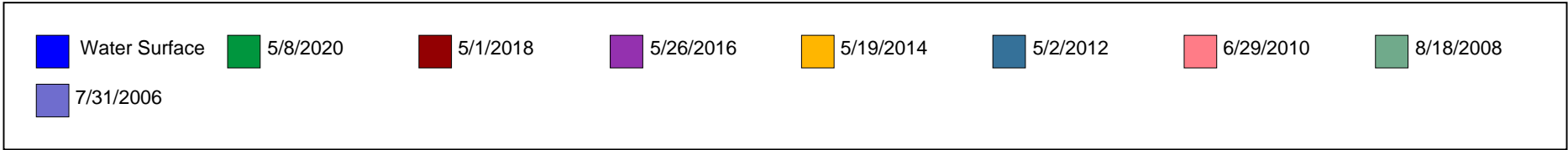
Highwater Mark Distance **3**

Location of Highwater Mark **debris on slope**

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	3.100	0.000	fill face
0.250	3.100	0.000	face of backwall
0.260	5.300	0.000	cap at backwall
1.250	5.300	0.000	face of cap
1.260	7.000	7.300	ground at cap
10.000	6.600	0.000	slope
20.000	8.700	0.000	slope
26.800	15.600	0.000	wswe
30.750	17.000	14.000	bent 1
35.000	17.100	0.000	streambed
40.000	16.900	0.000	streambed
45.000	17.200	0.000	streambed
50.000	16.900	0.000	streambed
55.000	16.700	0.000	streambed
59.600	15.600	0.000	wswe
60.750	14.300	16.100	bent 2
70.000	8.900	0.000	slope
80.000	6.400	0.000	slope
87.740	7.000	7.200	ground at cap
87.750	5.300	0.000	face of cap
88.740	5.300	0.000	cap at backwall
88.750	3.100	0.000	face of backwall
89.000	3.100	0.000	fill face

### STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

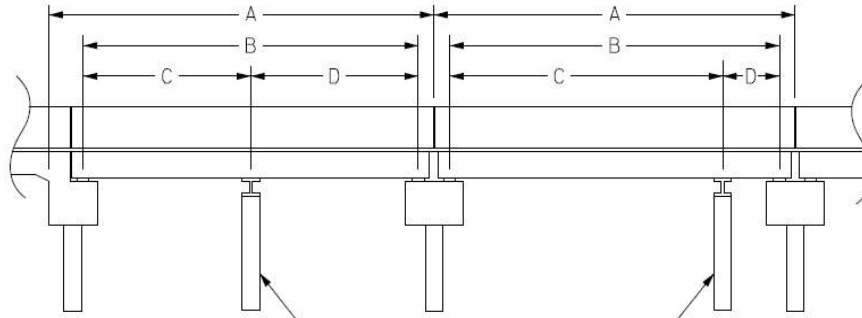


# Structure Data Worksheet

## Span Profile

County: IREDELL

Structure Number: 480165



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

Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	30.750	29.580			
2	30.000	29.420			
3	28.250	27.080			





South approach looking North



overhead utility along right side





near load posting



South approach asphalt





asphalt over end bent 1



typical wearing surface





left bridge rail



right bridge rail





typical asphalt over interior bent [asphalt over bent 1 in view]



looking upstream [West] from bridge





looking downstream [East] from bridge



asphalt over end bent 2





North approach asphalt



far load posting





East profile looking West



typical beam over interior bent





typical rail to beam attachment



Southwest wingwall [all similar]





bent 1



typical interior diaphragm





typical underside of deck



End Bent 2





typical interior bearing



bent 2





West profile looking East



typical superstructure framing





End Bent 1



North approach looking South



typical end bearing









# BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 480165

County IREDELL

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	1	Span 3 Beam 1: [PAR] lower web at 3ft from End Bent 2, active corrosion with section loss [11in x up to 2in high x 3/16in avg rem]	
 3314	Maintain Steel Superstructure Components	LF	4	Span 3 Beam 3: [PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]	
 3316	Maint to Timber Handrail	LF	1	Span 3 Right Bridge Rail: [PAR] at End Bent 2, vertical end board missing	
 3316	Maint to Timber Handrail	LF	1	Span 3 Left Bridge Rail: [PAR] at End Bent 2, vertical end board missing	
 3316	Maint to Timber Handrail	LF	1	Span 3 Left Bridge Rail: [PAR] at 3rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	
 3316	Maint to Timber Handrail	LF	1	Span 3 Left Bridge Rail: [PAR] at 2nd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection	

**Key**

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 480165

County IREDELL

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

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	
Submitted Date:	Submitted By:	Assisted By:
05/08/2020	JAMES TALACEK	
Details		
Span 3 Beam 1: [PAR] lower web at 3ft from End Bent 2, active corrosion with section loss [11in x up to 2in high x 3/16in avg rem]		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	4      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/08/2020	JAMES TALACEK	
Details		
Span 3 Beam 3: [PAR] both sides of lower web 12ft from End Bent 2, active corrosion with section loss [4ft x up to 6in high x 1/4in avg rem]		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 480165

County IREDELL

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

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/08/2020	JAMES TALACEK	
Details		
Span 3 Right Bridge Rail: [PAR] at End Bent 2, vertical end board missing		

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	1      LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/08/2020	JAMES TALACEK	
Details		
Span 3 Left Bridge Rail: [PAR] at End Bent 2, vertical end board missing		

## BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 480165                      County IREDELL

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

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	1            LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/08/2020	JAMES TALACEK	
Details		
Span 3 Left Bridge Rail: [PAR] at 3rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection		

MMS Code	MMS Description	Quantity
3316	Maint to Timber Handrail	1            LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
05/23/2020	JAMES TALACEK	
Details		
Span 3 Left Bridge Rail: [PAR] at 2rd post from End Bent 2, decay [30in x 100% loss] with missing standoff connection		

# Bridge Inspection Field Sketch



Roadway	19.92ft Wide	2 Paved Lanes	Looking North
Left Shoulder	4.5ft Wide	0.5ft Paved	4ft Unpaved
Right Shoulder	4.83ft Wide	0.33ft Paved	4.5ft Unpaved
Left Guardrail			
Right Guardrail			

Measurements Recorded 60ft South of End Bent 1

All Measurements Revised: J. Talacek 05/08/2020

**Title**

Approach Roadway Sketch

**Description**

Data Worksheet

**Bridge No:** 480165

**Drawn By:** RAP

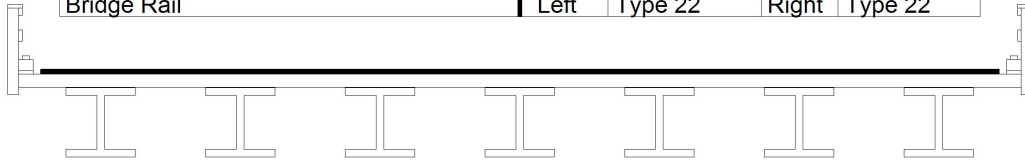
**Date:** 8/18/08

**File Name:** S0138001511



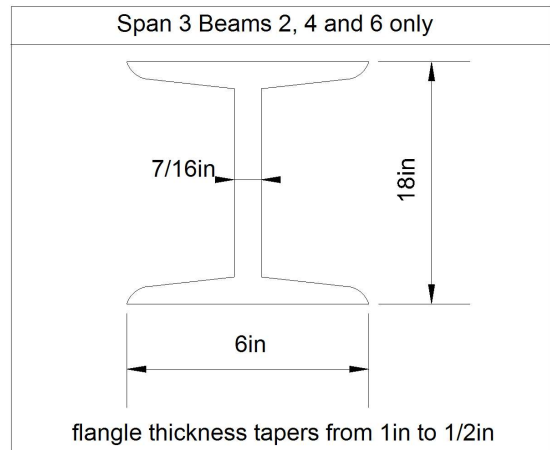
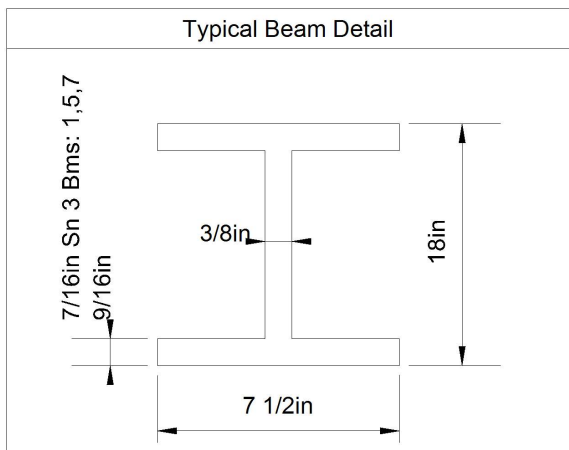
# Bridge Inspection Field Sketch

Deck Width/Out to Out	25.167ft	Between Rails	24.917ft
Clear Roadway	24.25ft	Wearing Surface	0.125ft
Median Width		Median Height	
Curb Height		Left	0.667ft
		Right	0.667ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	0.5ft
		Right	0.5ft
Top of Rail to Deck/Wearing Surface		Left	2.917ft
		Right	2.917ft
Bridge Rail		Left	Type 22
		Right	Type 22



Measurements for Span #	1	Spans 2, 3 similar	
Deck Thickness	0.333ft	Left Overhang	1.583ft
Top of Rail to Bottom of Beam	5.167ft	Right Overhang	1.583ft

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	3.667ft	
2	Steel I Beam	3.667ft	
3	Steel I Beam	3.667ft	
4	Steel I Beam	3.667ft	
5	Steel I Beam	3.667ft	
6	Steel I Beam	3.667ft	
7	Steel I Beam		



Measurements Verified: J. Talacek 05/08/2020

**Title**

Typical Section Sketch

**Description**

Data Worksheet

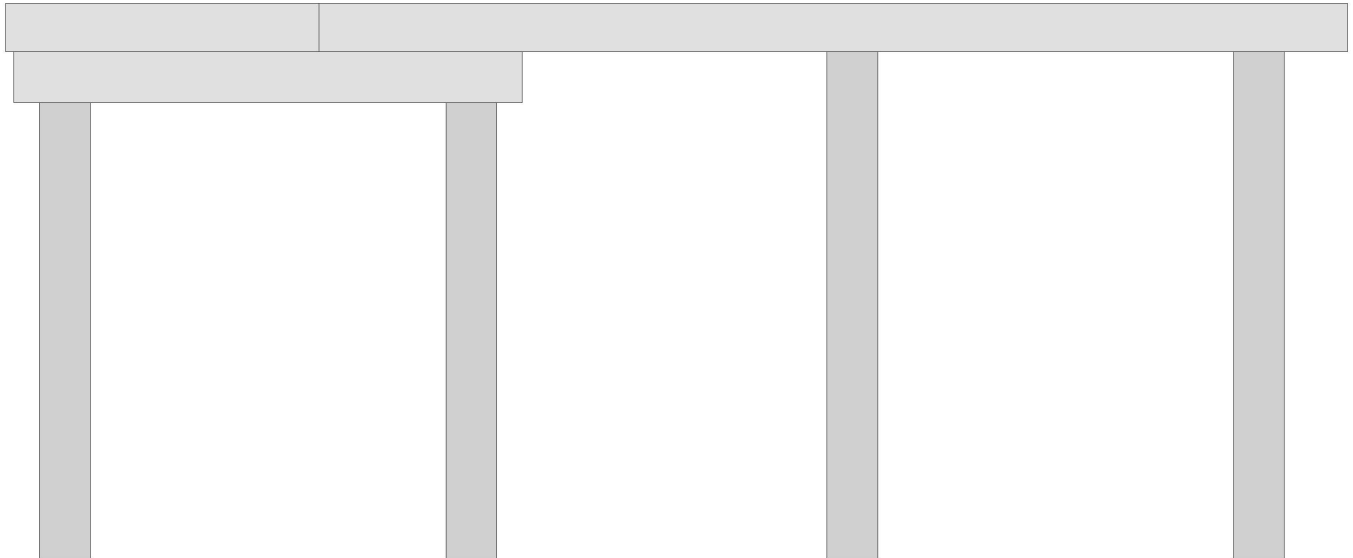
Bridge No: 480165

Drawn By: RAP

Date: 8/18/08

File Name: S0138001512

# Bridge Inspection Field Sketch



<b>Cap Information</b>			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.416 ft.	.833 ft.	.958 ft.	1.167 ft.	1.750 ft.	1.000 ft.	1.916 ft.				
<b>Subcap Information</b>			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
10.000 ft.	.833 ft.	1.000 ft.	1.000 ft.	1.000 ft.	5 ft.					
<b>Sill Information</b>			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	7.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No
<b>End Bent/Abutment #: 1</b>										

Measurements Verified: J. Talacek 05/08/2020

**Title**

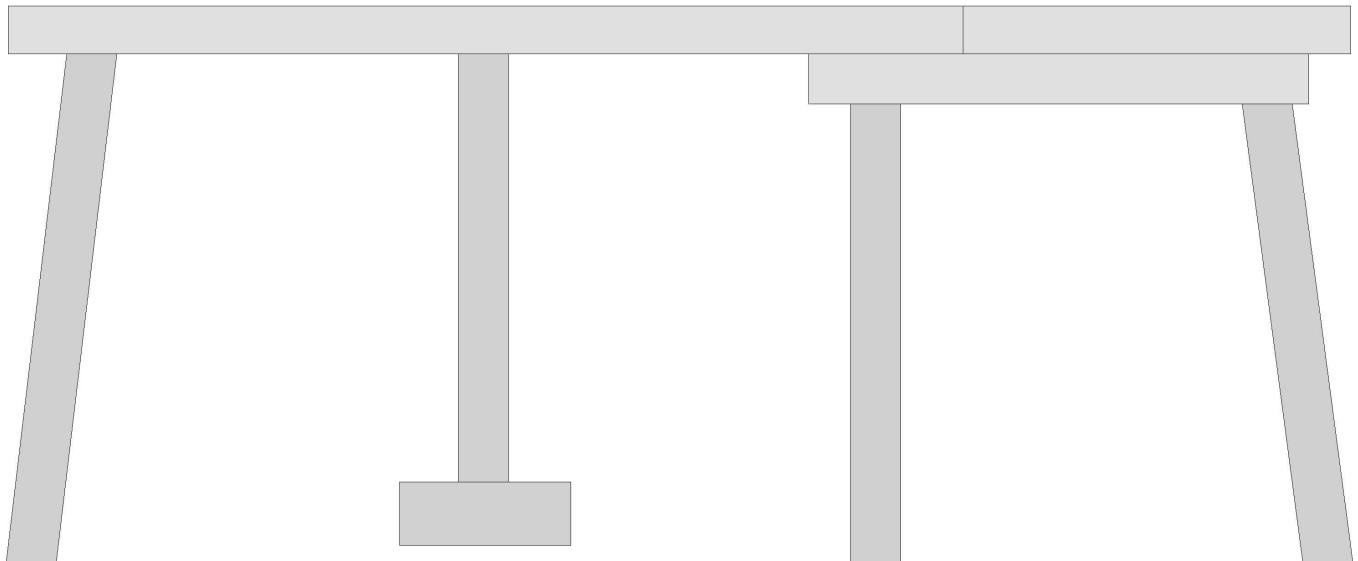
End Bent 1 Sketch

**Description**

Data Worksheet

<b>Bridge No:</b> 480165	<b>Drawn By:</b> RAP	<b>Date:</b> 8/18/08	<b>File Name:</b> S0138001519
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# Bridge Inspection Field Sketch

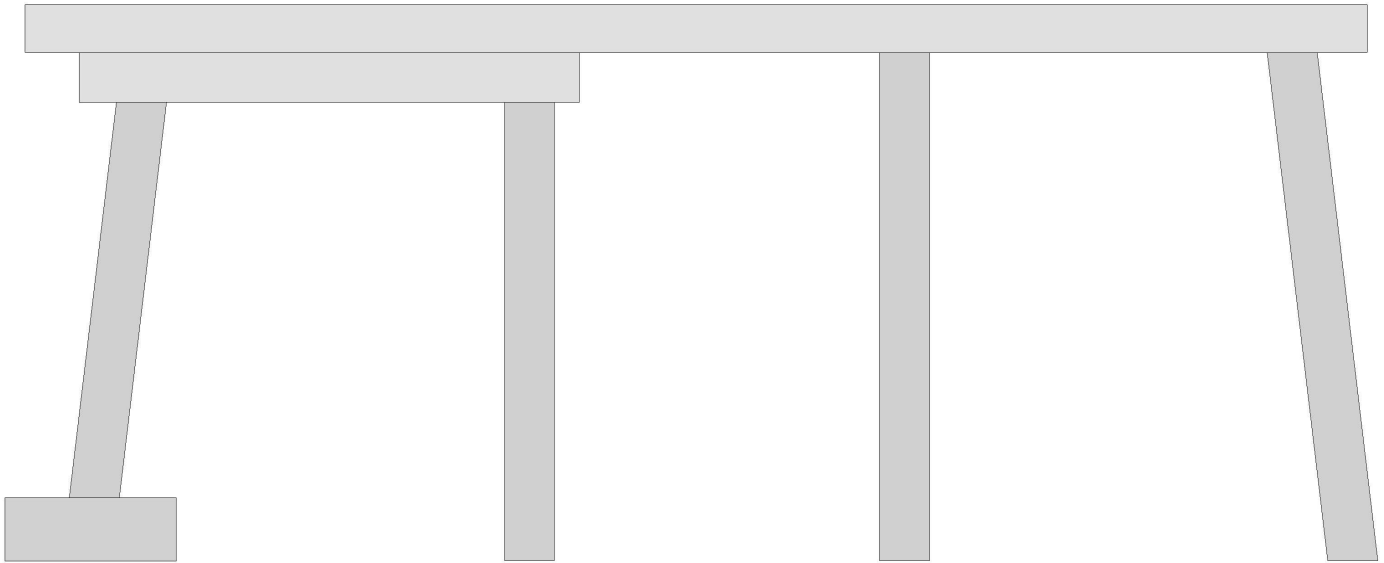


<b>Cap Information</b>			<b>Material Timber</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.833 ft.	.958 ft.	.958 ft.	1.667 ft.	1.667 ft.	1.333 ft.	1.500 ft.				
<b>Subcap Information</b>			<b>Material Timber</b>							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
10.000 ft.	1.000 ft.	1.000 ft.	1.083 ft.	1.083 ft.	1.75 ft.					
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	7.833 ft.	1 ft.			Battered	Yes	No	No	No
2	Timber	7.833 ft.	1 ft.			Vertical	Yes	No	No	Yes
3	Timber	7.833 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Battered	Yes	No	No	No
<b>Bent #: 1</b>										

Measurements Verified: J. Talacek 05/08/2020

<b>Title</b> Bent 1 Sketch			<b>Description</b> Data Worksheet			
<b>Bridge No:</b> 480165	<b>Drawn By:</b> RAP	<b>Date:</b> 8/18/08	<b>File Name:</b> S0138001521			

# Bridge Inspection Field Sketch



<b>Cap Information</b>			<b>Material</b> Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.833 ft.	.958 ft.	.958 ft.	2.083 ft.	1.500 ft.	1.667 ft.	1.750 ft.				
<b>Subcap Information</b>			<b>Material</b> Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
10.000 ft.	1.000 ft.	1.000 ft.	1.000 ft.	1.000 ft.						
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8 ft.	1 ft.			Battered	Yes	No	No	*Yes
2	Timber	7.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	7.75 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Battered	Yes	No	No	No
<b>Bent #: 2</b>										

Measurements Verified: J. Talacek 05/08/2020

**Title**

Bent 2 Sketch

**Description**

Data Worksheet

**Bridge No:** 480165

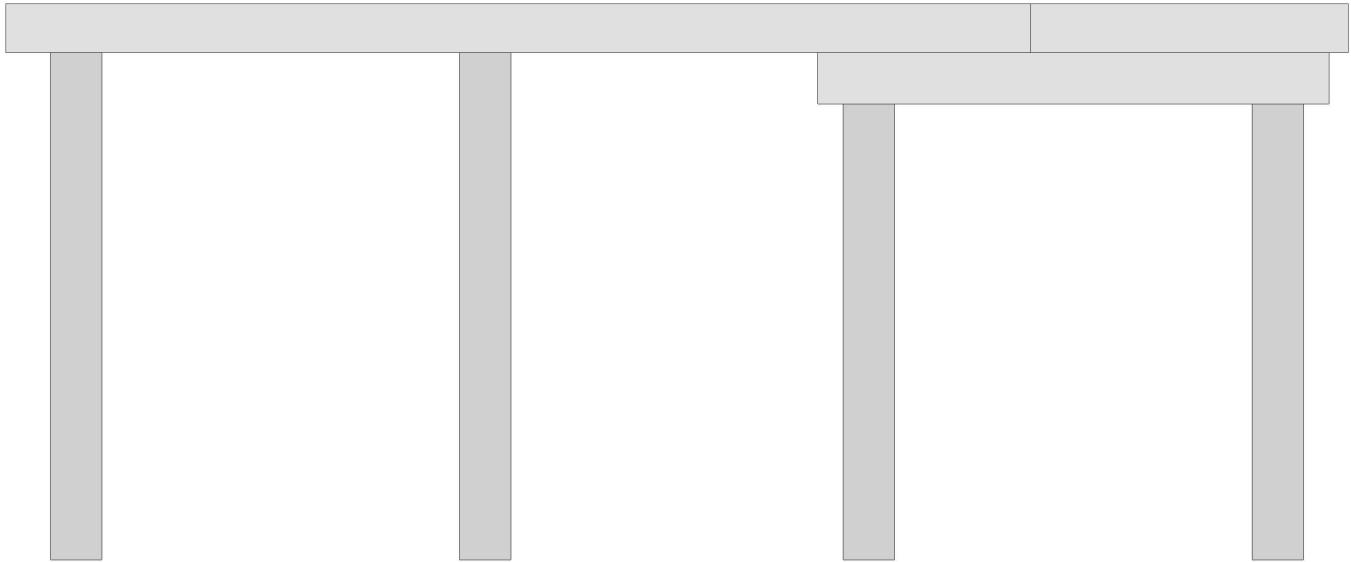
**Drawn By:** RAP

**Date:** 8/18/08

**File Name:** S0138001522



# Bridge Inspection Field Sketch

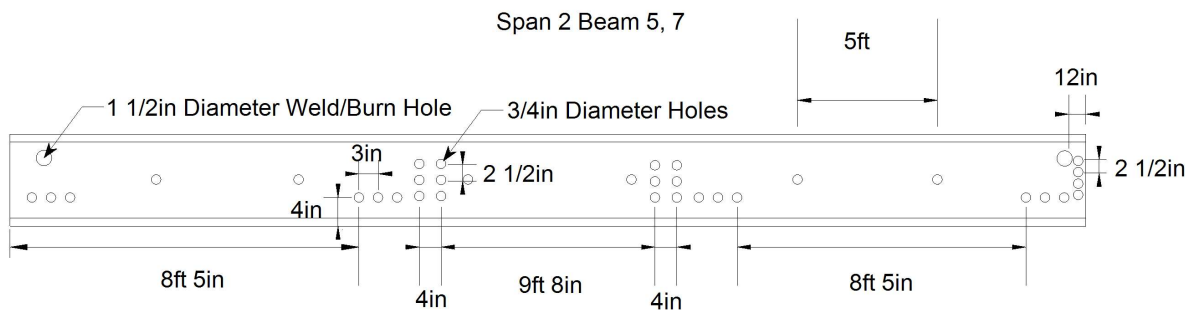
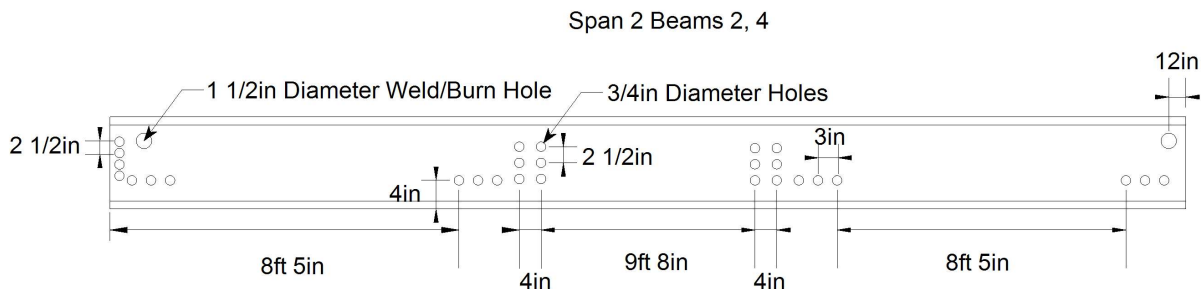
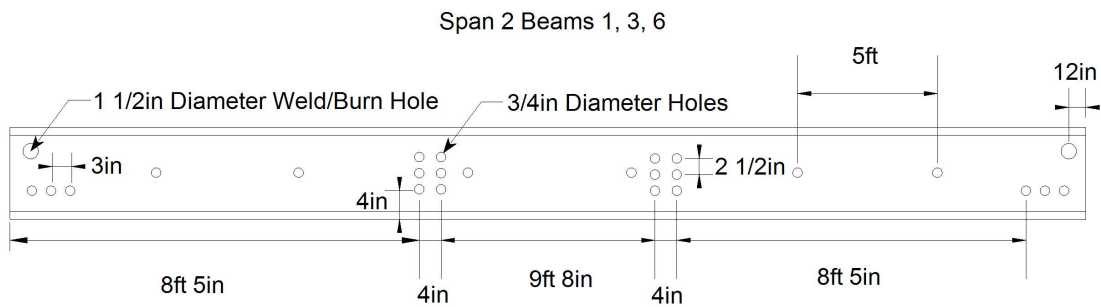
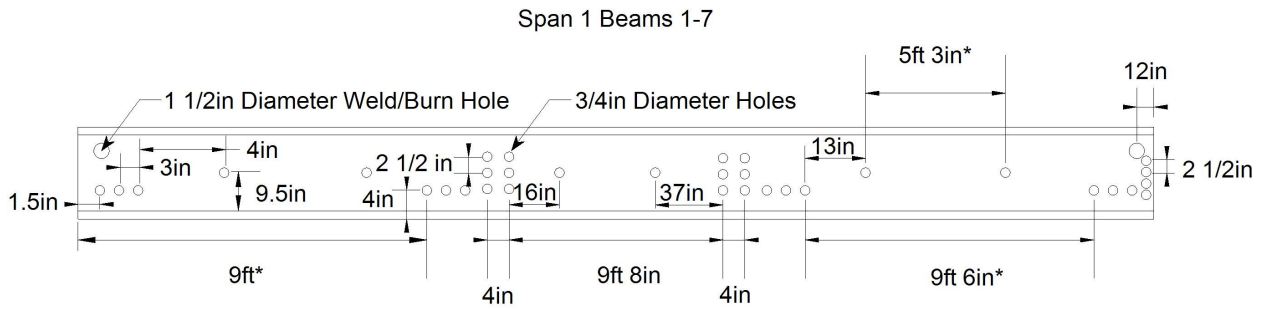


<b>Cap Information</b>			<b>Material</b> Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
26.250 ft.	.833 ft.	.958 ft.	1.375 ft.	1.375 ft.	1.5 ft.	1.333 ft.				
<b>Subcap Information</b>			<b>Material</b> Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
10.000 ft.	.833 ft.	1.000 ft.	1.000 ft.	1.000 ft.	3.167 ft.					
<b>Sill Information</b>			<b>Material</b>							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
2	Timber	7.5 ft.	1 ft.			Vertical	Yes	No	No	No
3	Timber	8 ft.	1 ft.			Vertical	Yes	No	No	No
4	Timber		1 ft.			Vertical	Yes	No	No	No
<b>End Bent#: 2</b>										

Measurements Verified: J. Talacek 05/08/2020

<b>Title</b> End Bent 2 Sketch			<b>Description</b> Data Worksheet		
<b>Bridge No:</b> 480165	<b>Drawn By:</b> RAP	<b>Date:</b> 8/18/08	<b>File Name:</b> S0138001520		

# Bridge Inspection Field Sketch



\*Measurements Revised: J. Talacek 05/08/2020

**Title**

Salvaged Beam Sketch 1

**Description**

Data Worksheet

Bridge No: 480165

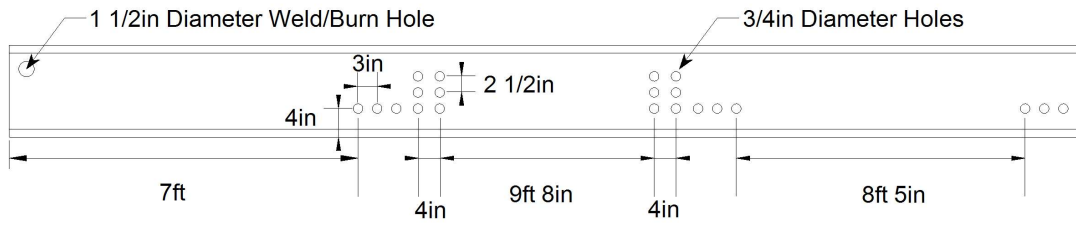
Drawn By: FER

Date: 5/31/2016

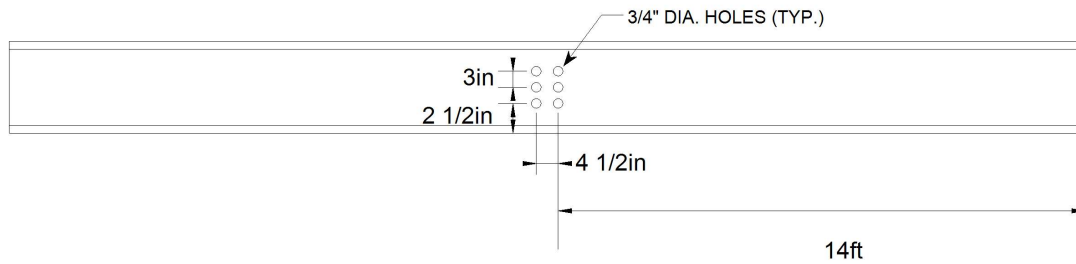
File Name: S0454000293

# Bridge Inspection Field Sketch

Span 3 Beams 1, 3, 5, 7



Span 3 Beams 2, 4, 6



Measurements Verified: J. Talacek 05/08/2020

**Title**

Salvaged Beam Sketch 2

**Description**

Data Worksheet

Bridge No: 480165

Drawn By: FER

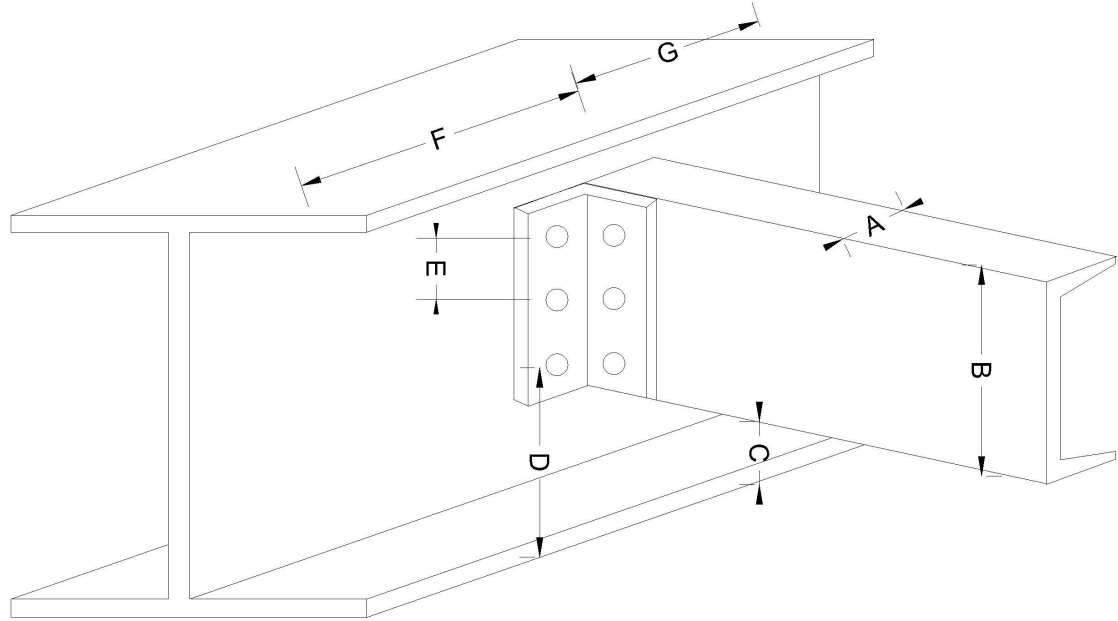
Date: 5/27/2016

File Name: S0454000292

# Bridge Inspection Field Sketch

SPAN: ALL

LOCATION: MID - SPAN



3 BOLTS

SPAN	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	BOLT SIZE
1 & 2	3"	12"	3"	6"	3"	15'	15'	3/4"
3	3"	12"	3"	6"	3"	14'	14'	3/4"

VERIFIED BY: H. BONILLA 5/1/2018

**Title**  
DIAPH.

**Description**  
DIAPH.

Bridge No: 480165

Drawn By: RAP

Date: 8/18/08

File Name: S0138001513