



NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 STRUCTURE MANAGEMENT UNIT

ATTENTION: Supplemental Inspection for Left rail in spans 3 and 4 only. Priority Action Request Submitted

# Structure Safety Report

## Supplemental Element Inspection

STRUCTURE NUMBER: 910126      SAP STRUCTURE NO: 0920126      FHWA STRUCTURE NO: 000000001830126

DIVISION: 5      COUNTY: WAKE      INSPECTION DATE: 07/28/2022      FREQUENCY: None

FACILITY CARRIED: SR2044      MILE POST: \_\_\_\_\_

LOCATION: 1.2 MI.S.US1A

FEATURE INTERSECTED: SMITHS CREEK

LATITUDE: 35° 55' 44.53"      LONGITUDE: 78° 31' 39.86"

SUPERSTRUCTURE: PRESTRESSED CONCRETE CHANNELS, STD. BMD-13

SUBSTRUCTURE: E.BTS&INT.BTS:PPC/CAPS/TIM.PILES;STL.CRUTCH BTS ADDED.

SPANS: 4 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL     TEMPORARY SHORING     SCOUR CRITICAL     SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding)    DECK 5 / 5    SUPERSTRUCTURE 3 / 3    SUBSTRUCTURE 3 / 3    CULVERT N / N

POSTED SV: 18      POSTED TTST: 23

OTHER SIGNS PRESENT: 3 Delineators



Looking South

Sign noticed issued for	Number Required
<u>YES</u> <b>WEIGHT LIMIT</b>	<u>1</u>
<u>YES</u> <b>DELINEATORS</b>	<u>1</u>
<u>NO</u> <b>NARROW BRIDGE</b>	<u>0</u>
<u>NO</u> <b>ONE LANE BRIDGE</b>	<u>0</u>
<u>NO</u> <b>LOW CLEARANCE</b>	<u>0</u>

DIRECTION OF INSPECTION      S-N

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

INSPECTED BY Matthew Walker	SIGNATURE 	ASSISTED BY    Bridge Maintenance
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NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

09/20/2022

**IDENTIFICATION**

(1) STATE NAME NORTH CAROLINA BRIDGE 910126  
 (8) STRUCTURE NUMBER (FEDERAL) 1830126  
 (5) INVENTORY ROUTE (ON/UNDER) ON 131020440  
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 5  
 (3) COUNTY CODE (FEDERAL) 183 (4) PLACE CODE 70540  
 (6) FEATURE INTERSECTED SMITHS CREEK  
 (7) FACILITY CARRIED SR2044  
 (9) LOCATION 1.2 MI.S.US1A  
 (11) MILEPOINT 0.0  
 (12) BASE HIGHWAY NETWORK 0  
 (13) LRS INVENTORY ROUTE & SUBROUTE  
 (16) LATITUDE 35° 55' 44.53" (17) LONGITUDE 78° 31' 39.86"  
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED  
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 11.46  
 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 Prestressed Concrete  
 TYPE Channel beam CODE 522  
 (44) STRUCTURE TYPE APPROACH  
 TYPE CODE  
 (45) NUMBER OF SPANS IN MAIN UNIT 4  
 (46) NUMBER OF SPANS IN APPROACH 0  
 (107) DECK STRUCTURE TYPE CODE 2  
 (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 5  
 (59) SUPERSTRUCTURE 3  
 (60) SUBSTRUCTURE 3  
 (61) CHANNEL & CHANNEL PROTECTION 6  
 (62) CULVERTS N

**LOAD RATING AND POSTING**

**CODE**

(31) DESIGN LOAD HS 15 3  
 (63) OPERATING RATING METHOD - Load Factor 1  
 (64) OPERATING RATING - HS-16 29  
 (65) INVENTORY RATING METHOD - 1  
 (66) INVENTORY RATING HS-9 16  
 (70) BRIDGE POSTING Posting Required 0  
 (41) STRUCTURE OPEN, POSTED, OR CLOSED  
 DESCRIPTION Posted for Load P

**AGE AND SERVICE**

(27) YEAR BUILT 1967  
 (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 2000  
 (30) YEAR OF ADT 2017 (109) TRUCK ADT PCT 7  
 (19) BYPASS OR DETOUR LENGTH 6.0

**APPRAISAL**

**CODE**

(67) STRUCTURAL EVALUATION 3  
 (68) DECK GEOMETRY 4  
 (69) UNDERCLEARANCES, VERT & HORIZ N  
 (71) WATERWAY ADEQUACY 5  
 (72) APPROACH ROADWAY ALIGNMENT 6  
 (36) TRAFFIC SAFETY FEATURES 0000  
 (113) SCOUR CRITICAL BRIDGES 8

**GEOMETRIC DATA**

(48) LENGTH OF MAXIMUM SPAN 29.0  
 (49) STRUCTURE LENGTH 121.0  
 (50) CURB OR SIDEWALK: LEFT 0.4 RIGHT 0.4  
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 24.1  
 (52) DECK WIDTH OUT TO OUT 25.5  
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 26.0  
 (33) BRIDGE MEDIAN No median CODE 0  
 (34) SKEW 0 (35) STRUCTURE FLARED 0  
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9  
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24.1  
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9  
 (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 4,000 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 08/21 (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

## Superstructure Build Details

Span Number 1

Span Length 30.4170

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	733 Square Feet		
10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	780 Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	62 Feet	Galvanized Protective System	98
10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	310 Feet		

Span Number 2

Span Length 30.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	300 Feet		
10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	770 Square Feet		
2	Concrete and Metal Railing	Other Bridge Railing	60 Feet	Galvanized Protective System	96
1	Asphalt Wearing Surface	Wearing Surface	723 Square Feet		

Span Number 3

Span Length 30.0000

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	60 Feet	Galvanized Protective System	96
10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	770 Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	723 Square Feet		
10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	300 Feet		

Span Number 4

Span Length 30.4170

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
10	Prestressed Concrete Channel	Prestressed Concrete Open Girder/Beam	310 Feet		
2	Concrete and Metal Railing	Other Bridge Railing	62 Feet	Galvanized Protective System	80
1	Asphalt Wearing Surface	Wearing Surface	733 Square Feet		
10	Prestressed Concrete Channel	Prestressed Concrete Top Flange	780 Square Feet		

## Superstructure Build Details



# Structure Element Scoring

Structure Number: 910126

Inspection Date 7/28/2022

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
15		Prestressed Concrete Top Flange	Beam	3,100	3,098	1	1	0
109		Prestressed Concrete Open Girder/Beam	Beam	1,220	1,003	47	98	72
333		Other Bridge Railing	Bridge Rail	244	0	188	10	46
515	333	Steel Protective Coating	Bridge Rail	370	0	0	0	370
510		Wearing Surface	Wearing Surfaces	2,912	2,191	0	721	0
216		Timber Abutment	Abutments	72	0	44	23	5
225		Steel Pile	Piles and Columns	1	1	0	0	0
225		Steel Pile	Piles and Columns	12	0	12	0	0
515	225	Steel Protective Coating	Piles and Columns	216	132	0	84	0
228		Timber Pile	Piles and Columns	28	18	6	4	0
231		Steel Pier Cap	Caps	204	65	139	0	0
515	231	Steel Protective Coating	Caps	1,902	1,425	321	0	156
233		Prestressed Concrete Pier Cap	Caps	130	118	11	1	0

# Summary of Maintenance Needs

## Maintenance By Defect

Structure Number: **910126**

Inspection Date: **07/28/2022**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Prestressed Concrete Top Flange	Delamination/Spall	1 Square Feet
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	174 Feet
3306	Prestressed Concrete Open Girder/Bear	Exposed Prestressing	38 Feet
3306	Prestressed Concrete Open Girder/Bear	Cracking (PSC)	7 Feet
3306	Prestressed Concrete Open Girder/Bear	Patched Area	2 Feet
3346	Timber Abutment	Scour	10 Feet
3346	Timber Abutment	Decay/Section Loss	13 Feet
3346	Timber Abutment	Check/Shake	49 Feet
3344	Timber Pile	Decay/Section Loss	4 Each
3344	Timber Pile	Scour	1 Each
3344	Timber Pile	Check/Shake	7 Each
3348	Prestressed Concrete Pier Cap	Delamination/Spall	1 Feet
3348	Prestressed Concrete Pier Cap	Cracking (PSC)	11 Feet
3318	Other Bridge Railing	Connection	1 Feet
3318	Other Bridge Railing	Damage	11 Feet
3318	Other Bridge Railing	Delamination/Spall	19 Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	22 Square Feet
2816	Wearing Surface	Crack (Wearing Surface)	699 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	370 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	561 Square Feet

## Element Structure Maintenance Quantities

Structure Number: **910126**

Inspection Date **07/28/2022**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	442	4320	144.000	196.000	94.000	3886.000
Beam	3326	Maintenance of Concrete Deck	2	4320	0.000	2.000	2.000	4316.000
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	31	244	46.000	10.000	188.000	0.000
Bridge Rail	3342	Clean and Paint Steel	370	370	370.000	0.000	0.000	0.000
Wearing Surfaces	2816	Asphalt Surface Repair	721	2912	0.000	721.000	0.000	2191.000
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	72	72	5.000	23.000	44.000	0.000
Caps	3342	Clean and Paint Steel	477	1902	156.000	0.000	321.000	1425.000
Caps	3348	Maintenance of Concrete Substructure	12	130	0.000	1.000	11.000	118.000
Caps	3354	Maintenance of Steel Substructure Components	0	204	0.000	0.000	139.000	65.000
Piles and Columns	3342	Clean and Paint Steel	84	216	0.000	84.000	0.000	132.000
Piles and Columns	3344	Maintenance To Timber Substructure	12	28	0.000	4.000	6.000	18.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	1	0.000	0.000	0.000	1.000
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	12	0.000	0.000	12.000	0.000

# Priority Actions Request

Structure Number 910126

## Span3

3318 Left Bridge Rail Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
3	Damage	24	Span 3 Left Bridge Rail: PAR-Left rail in span 3 has impact damage and has completely separated from structure from midspan to bent 3. All post are missing in this area with spalling up to 1foot wide x 4 inches deep at post connections to curbing.

## Span4

3318 Left Bridge Rail Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
3	Damage	21	Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.

## Bent 2

3346 Abutment Timber Abutment

Priority Level	Defect Type	Quantity	Defect Description
2	Damage	5	End Bent 2 Abutment: PAR- End Bent 2 bulkhead is broken and missing in a 5 foot long area at left end due to impact damage.

## Other Ground Mounted Signs

3250 Other Ground Mounted Signs Other Ground Mounted Signs

Priority Level	Defect Type	Quantity	Defect Description
3		2	PAR-Posting sign SV 18 TTST 23 and Delineator missing from right shoulder at north approach.



## Element Condition and Maintenance Data

Structure Number: 910126

Inspection Date: 07/28/2022

### Span 1 Wearing Surface

#### Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	733	557	0	176	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 510	Crack (Wearing Surface)	along edges of channels, (5) longitudinal cracks (full length x 1/16in)	3	150	150 Square Feet
<input type="checkbox"/> 510	Crack (Wearing Surface)	over end bent 1, transverse crack (full width x up to 1/8in)	3	24	24 Square Feet
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	northbound lane at bent 1, pothole (6in x 20in x up to 1-1/2in deep)	3	2	2 Square Feet

**General Comments**

### Span 1 Left Bridge Rail

#### Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	31	0	31	0	0 Feet
515	Steel Protective Coating	49	0	0	0	49 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 333	Corrosion	along length of rail, active corrosion with no section loss noted	2	25	Feet
<input type="checkbox"/> 333	Cracking (RC and Other)	along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	6	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	coating failure with active corrosion	4	49	49 Square Feet

**General Comments**

### Span 1 Right Bridge Rail

#### Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	31	0	23	8	0 Feet
515	Steel Protective Coating	49	0	0	0	49 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 333	Delamination/Spall	at rail post 1, spall [2ft x 10in x 3in deep]	3	2	2 Feet
<input type="checkbox"/> 333	Delamination/Spall	at rail post 2, spall [3ft x 10in x 3in deep]	3	3	3 Feet
<input type="checkbox"/> 333	Delamination/Spall	at rail post 4, spall [3ft x 10in x 3in deep]	3	3	3 Feet
<input type="checkbox"/> 333	Corrosion	along length of rail, active corrosion with no section loss noted	2	16	Feet
<input type="checkbox"/> 333	Cracking (RC and Other)	along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	2	Feet
<input type="checkbox"/> 333	Patched Area	at rail post 3 outside face of concrete curb, patched area (5ft x full height)	2	5	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	coating failure with active corrosion	4	49	49 Square Feet

**General Comments**

**Span 1****Slab 1****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	25	5	0	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	(PAR) left and right leg at bent 1, four [4] spalls/delaminations [up to 12in x 5in x 1in deep] with loss of bearing area	4	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	exterior face at far end, spall [5.5in x 1.5in]	3		1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left and right leg near midspan, multiple spalls/delaminations [up to 5in x 4in x 3/4in deep] with two exposed stirrups [no section loss noted]	2	4	4 Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at near end, spall [3in x 3in x 3/4in] with exposed rusted reinforcing [no loss noted]	2	1	1 Feet

**General Comments**

West face at grout pocket 3, missing grout with exposed tendon with surface rust [no section loss noted]

**Span 1****Slab 2****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	22	5	0	4 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	(PAR) left and right leg at bent 1, three [3] spalls/delaminations [up to 10in x 6in x 1in deep] channel legs crushing and bottom of channel legs sits below top of crutch bent cap	4	2	2 Feet
<input type="checkbox"/> 109	Exposed Prestressing	[PAR] left leg near midspan, spall [16in x 5in x full width] with exposed strand that exhibits section loss [up to 25%]	4	2	2 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at far third, four [4] spalls/delaminations [up to 6in x 3in x 3/4in deep] with four [4] exposed stirrups [no section loss noted]	2	4	4 Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at near end, spall [3in x 3in x 3/4in] with exposed rusted reinforcing [no loss noted]	2	1	1 Feet

**General Comments****Span 1****Slab 3****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	22	7	0	2 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **910126**Inspection Date: **07/28/2022**

<input type="checkbox"/>	109	Delamination/Spall	(PAR) left and right leg at bent 1, two [2] spalls [up to 12in x 6in x 1in deep] with exposed strand, channel legs crushing and bottom of channel legs sits below top of crutch bent cap	4	2	2	Feet
<input type="checkbox"/>	109	Delamination/Spall	left and right leg at far half, multiple spalls/delaminations [up to 6in x 4in x 1/2in deep] with six [6] exposed stirrup ends [no section loss noted]	2	5	5	Feet
<input type="checkbox"/>	109	Delamination/Spall	right leg at end bent 1, two [2] spalls [up to 6in x 4in x 1/2in deep] with exposed stirrup [no section loss noted]	2	1	1	Feet
<input type="checkbox"/>	109	Delamination/Spall	right leg at near end, three [3] spalls [6in x 4in x 1in] with exposed rusted reinforcing [no loss noted]	2	1	1	Feet

**General Comments****Span 1****Slab 4****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	28	2	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/>	109	Delamination/Spall			
		left leg at bent 1, two [2] spalls [up to 12in x 4in x 1in deep]	3		2 Feet
<input type="checkbox"/>	109	Patched Area			
		(PAR) right leg at bent 1, spalled patched area [12in x full width x 5in high] with exposed strands	3	1	1 Feet
<input type="checkbox"/>	109	Delamination/Spall			
		left leg near midspan, delamination [6in x 2in] with exposed stirrup end [no section loss noted]	2	1	1 Feet
<input type="checkbox"/>	109	Delamination/Spall			
		underside at far third, spall [3in x 3in x 1/2in] with exposed rebar [no section loss noted]	2	1	1 Feet

**General Comments****Span 1****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	20	0	7	4 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/>	109	Exposed Prestressing			
		(PAR) right leg at midspan, spall (40in x 3in deep) with exposed strand (25% section loss)	4	4	4 Feet
<input type="checkbox"/>	109	Delamination/Spall			
		left and right legs at far end, four [4] spalls/delaminations [up to 9in x 4in x 1/4in]	3	1	1 Feet
<input type="checkbox"/>	109	Delamination/Spall			
		right leg at middle third, six spalls/delaminations [up to 8in x 4in x 1/2in deep]	3	6	6 Feet

**General Comments**

**Span 1****Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	76	1	1	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	27	2	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 15	Delamination/Spall	underside at near third, honeycomb [12in x 12in x up to 2in deep]	3	1	1 Square Feet
<input type="checkbox"/> 15	Patched Area	underside near midspan, sound patch (12in diameter)	2	1	Square Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at end bent 1, spall [20in x 6in x 1/2in deep] with two [2] exposed stirrups [no section loss noted]	3	2	3 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg 7ft from bent 1, spall [4in x 4in x 1/4in deep] with exposed stirrup that exhibits surface corrosion [no section loss noted]	2	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at far end, spall [3in x 4in x 1/4in deep]	2	1	1 Feet

**General Comments****Span 1****Slab 7****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	28	0	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left and right leg at far end, three [3] spalls/delamination [up to 10in x up to full width x 5-1/2in high]	3	3	3 Feet

**General Comments****Span 1****Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Patched Area	right leg at far end, one [1] unsound patch [9in x 4in]	3	1	1 Feet

**General Comments**

**Span 1****Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	26	2	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	right leg at far end, three [3] spalls/delaminations [up to 9in long x 11in high x 1/2in deep] with two [2] exposed stirrups [loss < 1/16in]	3	3	3 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at end bent 1, delamination [4in x 4in]	2	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at far end, two [2] spalls [up to 4in diameter x 1in deep] with one [1] exposed stirrup [loss < 1/16in]	2	1	1 Feet

**General Comments****Span 1****Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	16	1	3	11 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	[PAR] left leg at midspan, spall/delamination, [11ft x full width of leg x 11in high] with four [4] exposed prestressed strands, three [3] of the exposed strands have failed with remaining one [1] strand exhibiting section loss [up to 40%]	4	11	11 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at end bent 1, spall/delamination [10in x 7in x 1/2in deep] with two [2] exposed stirrups [no section loss noted]	3	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at far end over bearing, spall [18in x 9in x 1/2in deep]	3	2	2 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at far end, delamination [5in x 3in]	2	1	1 Feet

**General Comments**

East face at grout pocket 3, missing grout with exposed tendon with surface rust [no section loss noted]

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	723	548	0	175	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 510	Crack (Wearing Surface)	along edges of channels, (5) longitudinal cracks (full length x 1/16in)	3	150	150 Square Feet
<input type="checkbox"/> 510	Crack (Wearing Surface)	UP TO 1/8" TRANSVERSE CRACKING OVER BENT 1	3	25	25 Square Feet

**General Comments**

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	30	0	30	0	0 Feet
515	Steel Protective Coating	48	0	0	0	48 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 333	Corrosion	along length of rail, active corrosion with no section loss noted	2	25	Feet
<input type="checkbox"/> 333	Cracking (RC and Other)	along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	5	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	coating failure with active corrosion	4	48	48 Square Feet

**General Comments****Span 2 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	30	0	28	2	0 Feet
515	Steel Protective Coating	48	0	0	0	48 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 333	Delamination/Spall	at rail post 5, delamination/spall [2ft x 8in x 3in deep]	3	2	2 Feet
<input type="checkbox"/> 333	Corrosion	along length of rail, active corrosion with no section loss noted	2	18	Feet
<input type="checkbox"/> 333	Cracking (RC and Other)	along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	7	Feet
<input type="checkbox"/> 333	Damage	top of rail near midspan, impact damage [6ft x 2in]	2	3	3 Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	coating failure with active corrosion	4	48	48 Square Feet

**General Comments****Span 2 Slab 1****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	25	2	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	right leg 6ft from bent 2, spall (30in x 3in x 3/4in) with exposed rusted rebar	3	3	3 Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at near third, two [2] spalls [up to 6in x 3in x 3/4in deep]	2	2	2 Feet

**General Comments**

West face at grout pocket 1, missing grout with exposed tendon with surface rust [no section loss noted]

**Span 2****Slab 2****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	25	0	2	3 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	[PAR] left and right leg at bent 2, two [2] spalls/delaminations [up to 36in x 6in x full width], with two [2] exposed stirrups [no section loss noted] and exposed strand [section loss up to 20%]	4	3	3 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 1, spall [16in x 8in x 3/4in deep] with two [2] exposed stirrups [no section loss noted]	3	2	2 Feet

**General Comments****Span 2****Slab 3****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	28	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 1, delamination [14in x 4in]	3	2	2 Feet

**General Comments****Span 2****Slab 4****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	28	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left and right leg at bent 1, three [3] spalls [up to 8in x 5in x 1/2in deep], with exposed stirrup [no section loss noted]	3	2	2 Feet

**General Comments****Span 2****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	28	1	0	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **910126**

Inspection Date: **07/28/2022**

<input type="checkbox"/>	<b>109</b>	Delamination/Spall	(PAR) left and right leg at bent 1, two [2] spalls [up to 12in x 8in x up to full width], with exposed stirrup [no section loss noted] channel legs crushing and bottom of channel legs sits below top of crutch bent cap	4	1	1	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left leg at far end, spall [3in x 4in x 1/2in deep]	2	1	1	Feet

**General Comments**

**Span 2 Slab 6**  
**Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	77	77	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	30	24	1	5	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		left and right leg at bent 1, four [4] spalls [up to 6.5in x 5.5in x 1/2in deep], with four [4] exposed stirrups [no section loss noted]	3	4	4	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		left leg at 15ft from bent 1, spall (8in x 2in x 1/2in)	3	1	1	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		right leg at 15ft from bent 2, spall (5in x 1-1/2in x 1/2in)	2	1	1	Feet

**General Comments**

**Span 2 Slab 7**  
**Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	77	77	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	30	23	0	4	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		[PAR] left leg near midspan, spall/delamination [30in x 4in x full width], with exposed strand [section loss up to 30%]	4	3	3	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		left and right leg at bent 1, four [4] spalls [up to 8in x 3in x 1/2in], with three [3] exposed stirrups [no section loss noted]	3	4	4	Feet

**General Comments**

**Span 2 Slab 8**  
**Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	77	77	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	30	21	0	9	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left and right leg along full length, nine [9] spalls [up to 8in x 4in x up to 1in], with five [5] exposed stirrups [no section loss noted]	3	9	9 Feet
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**General Comments****Span 2 Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	16	0	3	11 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	[PAR] right leg 12ft from bent 1, spall/delamination [6ft x 3in x full width] with exposed strand (25% section loss)	4	6	6 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	[PAR] right leg at bent 1, spall/delamination [52in x 8in x up to full width] with one exposed strand (50% section loss on strand)	4	5	5 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left and right leg at bent 2, three [3] spalls/delaminations [up to 10in x 5in x 1/2in deep], with exposed stirrup [no section loss noted]	3	2	2 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left leg at bent 1, spall/delamination [8in x 5in x 1/2in] with exposed stirrup [no section loss noted]	3	1	1 Feet

**General Comments****Span 2 Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	20	1	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left and right leg at bent 1, four [4] spalls [up to 18in x 6in x 1/2in]	3	5	5 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left leg at midspan, delamination (4ft x 2in high) with longitudinal crack crack (up to 1/8in)	3	4	4 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall	left leg at bent 2, spall [up to 5in x 4in x 1/4in deep]	2	1	1 Feet

**General Comments**

East face at grout pocket 1, missing grout with exposed tendon with surface rust [no section loss noted]

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	723	548	0	175	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>510</b>	Crack (Wearing Surface)	1/8" TRANSVERSE CRACK OVER BENT 2	3	25	25 Square Feet

<input type="checkbox"/>	<b>510</b>	Crack (Wearing Surface)	along edges of channels, (5) longitudinal cracks (full length x 1/16in)	3	150	150	Square Feet
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**General Comments****Span 3 Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	30	0	15	0	15	Feet
515	Steel Protective Coating	48	0	0	0	48	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input checked="" type="checkbox"/>	<b>333</b>	Damage				
		PAR-Left rail in span 3 has impact damage and has completely separated from structure from midspan to bent 3. All post are missing in this area with spalling up to 1foot wide x 4 inches deep at post connections to curbing.	4	15		Feet
<input type="checkbox"/>	<b>333</b>	Corrosion				
		along length of rail, active corrosion with no section loss noted	2	5		Feet
<input type="checkbox"/>	<b>333</b>	Cracking (RC and Other)				
		along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	10		Feet
<input type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)				
		coating failure with active corrosion	4	48	48	Square Feet

**General Comments****Span 3 Right Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	30	0	30	0	0	Feet
515	Steel Protective Coating	48	0	0	0	48	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>333</b>	Corrosion				
		along length of rail, active corrosion with no section loss noted	2	16		Feet
<input type="checkbox"/>	<b>333</b>	Cracking (RC and Other)				
		along length of curb, multiple vertical cracks [full height x 0.02in] some wrap around to top face	2	6		Feet
<input type="checkbox"/>	<b>333</b>	Damage				
		along length of rail at top, three [3] areas of impact damage [up to 3ft x 3in]	2	8	8	Feet
<input type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)				
		coating failure with active corrosion	4	48	48	Square Feet

**General Comments****Span 3 Slab 1****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	77	77	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	30	29	0	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		right leg at bent 2, spall [11in x 6in x 1in], with exposed rusted reinforcing [no section loss noted]	3	1	1	Feet

**General Comments**

**Span 3****Slab 2****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	17	0	7	6 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Exposed Prestressing	[PAR] left leg at bent 3, spall [6ft x full width x 5in], with exposed strand (40% section loss)	4	6	6 Feet
<input type="checkbox"/> 109	Cracking (PSC)	left leg at bent 2, longitudinal crack (4ft x 1/32in)	3	4	4 Feet
<input type="checkbox"/> 109	Delamination/Spall	left right leg at bent 2, two [2] spalls/delaminations [8in x 5in x 1in deep], with exposed stirrup [no section loss noted]	3	1	1 Feet
<input type="checkbox"/> 109	Exposed Prestressing	(PAR) right leg at midspan, spall (20in x 5in x 3/4in) with exposed rusted strand	3	2	2 Feet

**General Comments****Span 3****Slab 3****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	29	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 2, delamination [5in x 5in]	2	1	1 Feet

**General Comments****Span 3****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	23	0	7	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	(PAR) right leg at bent 3, spall [6in x 4in x full width], with exposed strand	3	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left and right legs along length of slab, six [6] spalls/delaminations [up to 8in x 6in x 1/2in deep], with six [6] exposed stirrups [no section loss noted]	3	6	6 Feet

**General Comments**

**Span 3****Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	23	4	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	[PAR] left leg at far third, spall [2ft x 5in] with exposed strand	3	2	2 Feet
<input type="checkbox"/> 109	Delamination/Spall	right leg at bent 3, spall [10in x 4in x 1/2in deep]	3	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left and right leg along length of slab, four [4] spalls/delaminations [2in x 4in x 1/2in deep], with three [3] exposed stirrups [no section loss noted]	2	4	4 Feet

**General Comments****Span 3****Slab 7****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	29	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 3, spall [6in x 2in x 1/4in deep]	2	1	1 Feet

**General Comments****Span 3****Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	27	0	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Cracking (PSC)	right leg at far third, longitudinal crack (16in x 1/32in)	3	2	2 Feet
<input type="checkbox"/> 109	Delamination/Spall	left and right leg at bent 3, two [2] spalls/delaminations [up to 9in x 2in x 1in deep], with exposed strand [no section loss noted]	3	1	1 Feet

**General Comments**

**Span 3****Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	28	1	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	left leg at 6ft from bent 2, spall (6in x 2in x 1/2in)	3	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 3, spall [3in x 2in x 1/4in deep]	2	1	1 Feet

**General Comments****Span 3****Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	77	77	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	30	28	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	right leg at bent 2, spall [22in x 15in x 2in], with exposed stirrup [no section loss noted]	3	2	2 Feet

**General Comments****Span 4****Wearing Surface****Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	733	538	0	195	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 510	Crack (Wearing Surface)	along edges of channels, (5) longitudinal cracks (full length x 1/8in)	3	150	150 Square Feet
<input type="checkbox"/> 510	Crack (Wearing Surface)	over end bent 2, transverse crack (full width x up to 1/8in)	3	25	25 Square Feet
<input type="checkbox"/> 510	Patched Area/Pothole (Wearing Surface)	northbound lane along edge of channels 8 and 9, pothole (20ft x 3in x 1in)	3	20	20 Square Feet

**General Comments****Span 4****Left Bridge Rail****Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	31	0	0	0	31 Feet
515	Steel Protective Coating	49	0	0	0	49 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 333	Connection	[PAR] rail post 6 is missing	4		1 Feet

Structure Number: **910126**

Inspection Date: **07/28/2022**

<input checked="" type="checkbox"/>	<b>333</b>	Damage	PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.	4	31	Feet
<input type="checkbox"/>	<b>333</b>	Delamination/Spall	(PAR) at rail posts 3,4 & 5, delamination/spall [up to 3ft x 11in x 3in deep] allowing excessive deflection of rail	3		9 Feet
<input type="checkbox"/>	<b>333</b>	Corrosion	along length of rail, active corrosion with no section loss noted	2		Feet
<input type="checkbox"/>	<b>333</b>	Cracking (RC and Other)	along length of curb, multiple vertical cracks [full height x 0.02in] some wrap around to top face	2		Feet
<input type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)	coating failure with active corrosion	4	49	49 Square Feet

**General Comments**

**Span 4 Right Bridge Rail Concrete and Metal Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
333	Other Bridge Railing	31	0	31	0	0 Feet
515	Steel Protective Coating	31	0	0	0	31 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/>	<b>333</b>	Corrosion			
		along length of rail, active corrosion with no section loss noted	2	25	Feet
<input type="checkbox"/>	<b>333</b>	Cracking (RC and Other)			
		along length of curb, multiple vertical cracks [6in x 0.02in] some wrap around to top face	2	6	Feet
<input type="checkbox"/>	<b>515</b>	Effectiveness (Steel Protective Coatings)			
		coating failure with active corrosion	4	31	31 Square Feet

**General Comments**

**Span 4 Slab 1 Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	25	1	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/>	<b>109</b>	Delamination/Spall			
		right leg at bent 3, two [2] spalls [up to 8in x 3in] with exposed stirrup [no section loss noted]	3	2	2 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall			
		right leg at near third, spall [14in x 3in x full width] with exposed stirrup [no section loss noted]	3	2	2 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall			
		right leg near midspan, spall [12in x 8in x 3/4in] with exposed stirrup [no section loss noted]	3	1	1 Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall			
		at far end of right leg, spall [3in x 2in x 1/4in deep]	2	1	1 Feet

**General Comments**

**Span 4****Slab 2****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	29	2	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	at far end of left leg, spall [2in x 2in x 1/4in deep] with one exposed stirrup [no section loss noted]	2	1	1 Feet
<input type="checkbox"/> 109	Delamination/Spall	left leg at bent 3, spall [6in x 6in x 1/2in deep]	2	1	1 Feet

**General Comments****Span 4****Slab 3****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	at far end of both legs, spall [4in x 2in x 1/4in deep] with two exposed stirrups [no section loss noted]	2	1	1 Feet

**General Comments****Span 4****Slab 4****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	0	1 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	(PAR) at far end of both legs, three [3] spalls/delaminations [6in x 6in x 1-1/2in deep] with one exposed strand [section loss up to 10%]	4	1	1 Feet

**General Comments****Span 4****Slab 5****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	28	1	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 109	Delamination/Spall	right leg at bent 3, spall/delamination [18in x 5in x 1/2in] with two [2] exposed stirrups [no section loss noted]	3	2	2 Feet

<input type="checkbox"/>	<b>109</b>	Delamination/Spall	at far end of right leg, spall [3in x 2in x 1/4in deep] with one exposed stirrup [no section loss noted]	2	1	1	Feet
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**General Comments****Span 4 Slab 6****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	29	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		at far end of left leg, two [2] spalls/delaminations [6in x 5in x 1/2in deep] with two exposed stirrups [no section loss noted]	2	1	1	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		left leg at bent 3, spall [6in x 3in x 1/2in]	2	1	1	Feet

**General Comments****Span 4 Slab 7****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		at far end of both legs, three [3] spalls/delaminations [6in x 6in x 1/2in deep] with two exposed stirrups [no section loss noted]	2	1	1	Feet

**General Comments****Span 4 Slab 8****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
15	Prestressed Concrete Top Flange	78	78	0	0	0	Square Feet
109	Prestressed Concrete Open Girder/Beam	31	18	2	6	5	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		(PAR) left leg at far third, spall/delamination [36in x 3in x 2in deep] with exposed rusted strand	4	1	1	Feet
<input type="checkbox"/>	<b>109</b>	Exposed Prestressing				
		[PAR] right leg at far third, spall [4ft x 3in x full width] with exposed strand	4	4	4	Feet
<input type="checkbox"/>	<b>109</b>	Cracking (PSC)				
		right leg at near third, longitudinal crack (1ft x 1/32in)	3	1	1	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		right leg at near third, five [5] spalls/delaminations [up to 8in x 3in x 1/2in deep] with four [4] exposed stirrups [no section loss noted]	3	5	5	Feet
<input type="checkbox"/>	<b>109</b>	Delamination/Spall				
		at far end of both legs, two [2] spalls/delaminations [8in x 3in x 1/2in deep] with two exposed stirrups [no section loss noted]	2	1	1	Feet



**109** Delamination/Spall left leg at bent 3, spall [4in x 4in x 1/4in deep] 2 1 1 Feet

**General Comments****Span 4 Slab 9****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	30	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> <b>109</b>	Delamination/Spall	at far end of right leg, spall [8in x 4in x 1in deep] with one exposed stirrup [no section loss noted]	3	1	1 Feet

**General Comments****Span 4 Slab 10****Prestressed Concrete Channel**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
15	Prestressed Concrete Top Flange	78	78	0	0	0 Square Feet
109	Prestressed Concrete Open Girder/Beam	31	9	1	1	20 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> <b>109</b>	Exposed Prestressing	[PAR] 5 TOTAL AREAS OF AREAS IN LEFT LEG OF FULL WIDTH X UP TO 6" HIGH SPALLS WITH EXPOSED STRANDS FOR 20' TOTAL (20% SECTION LOSS)	4	20	20 Feet
<input type="checkbox"/> <b>109</b>	Delamination/Spall	right leg at bent 3, spall [10in x 4in x 3/4in deep]	3	1	1 Feet
<input type="checkbox"/> <b>109</b>	Delamination/Spall	at far end of left leg, spall [3in x 2in x 1/4in deep] with one exposed stirrup [no section loss noted]	2	1	1 Feet

**General Comments****End Bent 1 Abutment****Timber Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
216	Timber Abutment	36	0	26	10	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> <b>216</b>	Decay/Section Loss	[PAR] between piles 3 and 5 second bulkhead board below cap, decay [10ft x up to full height x full width] with fill exposed	3	10	10 Feet
<input type="checkbox"/> <b>216</b>	Check/Shake	along length of backwall, checks/shakes [up to 1ft x up to 1/8in], with surface decay [up to 1/2in]	2	26	26 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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 228	Decay/Section Loss	(PAR) along height of exposed pile, multiple checks [full height x up to 1/8in], pile sounds hollow when hammered	3	1	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
<input type="checkbox"/> 228	Check/Shake	along height of exposed pile, multiple checks [full height x up to 1/8in]	2	1	1 Each

**General Comments**

Replaced pile section with concrete collar

**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	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 228	Decay/Section Loss	(PAR) at base of pile, multiple checks [full height x up to 1/4in wide x up to 2in deep], decay [14in x 10in x 3in deep]	3	1	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
<input type="checkbox"/> 228	Check/Shake	along height of exposed pile, multiple checks [full height x up to 1/8in]	2	1	1 Each

**General Comments**

replaced pile section with concrete collar

**End Bent 1****Pile 5****Timber Pile**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 228	Scour	(PAR) concrete collar is undermined (60%)	3	1	1 Each
<input type="checkbox"/> 228	Check/Shake	along height of exposed pile, multiple checks [full height x up to 1/16in]	2		1 Each

**General Comments**

replaced pile section with concrete collar  
concrete collar is undermined, [full width x 1ft high]

**End Bent 1****End Bent Cap 1****Prestressed Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
233	Prestressed Concrete Pier Cap	26	25	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 233	Delamination/Spall	over pile 3, spall/delamination [8in x 5in x 1/4in deep]	3	1	1 Feet

**General Comments****End Bent 2****Abutment****Timber Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
216	Timber Abutment	36	0	18	13	5 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input checked="" type="checkbox"/> 216	Damage	PAR- End Bent 2 bulkhead is broken and missing in a 5 foot long area at left end due to impact damage.	4	5	Feet
<input type="checkbox"/> 216	Decay/Section Loss	[PAR] between piles 1 and 2, lower board decay [3ft x 4in x full width] with exposed/missing backfill material	3	3	3 Feet
<input type="checkbox"/> 216	Scour	between piles 1 & 3, erosion [10ft long x 7ft x 18in deep] also gap [up to 2in] at cap/backwall junction	3	10	10 Feet
<input type="checkbox"/> 216	Check/Shake	along length of abutment, checks [up to 1/16in]	2	18	23 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
<input type="checkbox"/> 228	Check/Shake	along height of pile, multiple checks [up to 1/16in]	2		Each
<input type="checkbox"/> 228	Decay/Section Loss	South face a midheight, section loss [4in high x 4-1/4in wide x 3/4in deep]	2	1	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	
<input type="checkbox"/> 228	Check/Shake	along height of pile, multiple checks [up to 1/16in]	2	1	1	Each

**General Comments**

**End 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	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/> 228	Decay/Section Loss	at base of pile, decay (8in x 1in x 1-1/2in deep)	3	1	1	Each
<input type="checkbox"/> 228	Check/Shake	along height of pile, multiple checks [up to 1/8in]	2		1	Each
<input type="checkbox"/> 228	Decay/Section Loss	South face a midheight, section loss [3-1/2in high x 3-1/4in wide x 1in deep]	2			Each

**General Comments**

**End Bent 2 Pile 5**  
**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	
<input type="checkbox"/> 228	Check/Shake	along height of pile, multiple checks [up to 1/16in]	2	1	1	Each

**General Comments**

replacement pile for pile 4

**End Bent 2 Pile 6**  
**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	
<input type="checkbox"/> 228	Check/Shake	along height of pile, multiple checks [up to 1/16in]	2	1	1	Each

**General Comments**

replacement pile for pile 7

**End Bent 2****End Bent 2 Cap****Prestressed Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
233	Prestressed Concrete Pier Cap	26	15	11	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 233	Cracking (PSC)	at multiple locations along cap, longitudinal crack [up to 5ft x 0.009in]	2	11	11 Feet

**General Comments****Crutch Bent 1 Span 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	6	28	0	0 Feet
515	Steel Protective Coating	317	234	52	0	31 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 231	Corrosion	along length of cap at lower web and top flange, corrosion with section loss [<1/16in] with adjacent spot rust	2	28	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of lower web, top flange, paint failure with active corrosion with section loss	4	31	31 Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of cap at random locations, paint failure with active spot rust	2	52	52 Square Feet

**General Comments****Crutch Bent 1 Span 1****Pile 1****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	11	0	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	7	7 Square Feet

**General Comments****Crutch Bent 1 Span 1****Pile 2****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	11	0	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each

<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	7	7	Square Feet
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**General Comments****Crutch Bent 1 Span 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	7	27	0	0	Feet
515	Steel Protective Coating	317	232	54	0	31	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	231	Corrosion				Feet
		along length of cap at lower web and top flange, corrosion with section loss [ $<1/16$ in] with adjacent spot rust	2	27		
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				31 Square Feet
		along length of lower web, top flange, paint failure with active corrosion with section loss	4	31		
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				54 Square Feet
		along length of cap at random locations, paint failure with active spot rust	2	54		

**General Comments****Crutch Bent 1 Span 2 Pile 1****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	18	12	0	6	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	225	Corrosion				Each
		at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1		
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				6 Square Feet
		at pile cap and random locations along the height of pile, active surface corrosion	3	6		

**General Comments****Crutch Bent 1 Span 2 Pile 2****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
225	Steel Pile	1	0	1	0	0	Each
515	Steel Protective Coating	18	11	0	7	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
<input type="checkbox"/>	225	Corrosion				Each
		at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1		
<input type="checkbox"/>	515	Effectiveness (Steel Protective Coatings)				7 Square Feet
		at pile cap and random locations along the height of pile, active surface corrosion	3	7		

**General Comments**

**Crutch Bent 2 Span 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	13	21	0	0 Feet
515	Steel Protective Coating	317	242	51	0	24 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 231	Corrosion	along length of cap at lower web and top flange, corrosion with section loss [ $<1/16$ in] with adjacent spot rust	2	21	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of lower web, top flange, paint failure with active corrosion with section loss	4	24	24 Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of cap at random locations, paint failure with active spot rust	2	51	51 Square Feet

**General Comments**

**Crutch Bent 2 Span 2 Pile 1**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	10	0	8	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	8	8 Square Feet

**General Comments**

**Crutch Bent 2 Span 2 Pile 2**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	11	0	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	7	7 Square Feet

**General Comments**

**Crutch Bent 1 Span 3 Cap 1**

**Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	18	16	0	0 Feet
515	Steel Protective Coating	317	243	56	0	18 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 231	Corrosion	along length of cap at lower web and top flange, corrosion with section loss [ $<1/16$ in] with adjacent spot rust	2	16	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of lower web, top flange, paint failure with active corrosion with section loss	4	18	18 Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of cap at random locations, paint failure with active spot rust	2	56	56 Square Feet

**General Comments**

**Crutch Bent 1 Span 3 Pile 1**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	11	0	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	7	7 Square Feet

**General Comments**

**Crutch Bent 1 Span 3 Pile 2**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	12	0	6	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	6	6 Square Feet

**General Comments**



**Crutch Bent 2 Span 3**

**Cap 1**

**Steel Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
231	Steel Pier Cap	34	12	22	0	0 Feet
515	Steel Protective Coating	317	240	53	0	24 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 231	Corrosion	along length of cap at lower web and top flange, corrosion with section loss [ $<1/16$ in] with adjacent spot rust	2	22	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of lower web, top flange, paint failure with active corrosion with section loss	4	24	24 Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of cap at random locations, paint failure with active spot rust	2	53	53 Square Feet

**General Comments**

**Crutch Bent 2 Span 3**

**Pile 1**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	10	0	8	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	8	8 Square Feet

**General Comments**

**Crutch Bent 2 Span 3**

**Pile 2**

**Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	12	0	6	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	6	6 Square Feet

**General Comments**

**Crutch Bent 1 Span 4****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	317	234	55	0	28 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 231	Corrosion	along length of cap at lower web and top flange, corrosion with section loss [ $<1/16$ in] with adjacent spot rust	2	25	Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of lower web, top flange, paint failure with active corrosion with section loss	4	28	28 Square Feet
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	along length of cap at random locations, paint failure with active spot rust	2	55	55 Square Feet

**General Comments****Crutch Bent 1 Span 4****Pile 1****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	10	0	8	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	8	8 Square Feet

**General Comments****Crutch Bent 1 Span 4****Pile 2****Steel Cross Cap Crutch Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
225	Steel Pile	1	0	1	0	0 Each
515	Steel Protective Coating	18	11	0	7	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
<input type="checkbox"/> 225	Corrosion	at pile cap, surface corrosion [no section loss noted] with adjacent spot rust	2	1	Each
<input type="checkbox"/> 515	Effectiveness (Steel Protective Coatings)	at pile cap and random locations along the height of pile, active surface corrosion	3	7	7 Square Feet

**General Comments**

## Elements Verified

Location	Name	Component	Element Name	Amount
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# General Inspection Notes

Bent 1                      Pile 1  
pile is no longer in use and has been replaced by crutch bent

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Bent 1                      Pile 2  
pile is no longer in use and has been replaced by crutch bent

---

Bent 1                      Pile 3  
pile is no longer in use and has been replaced by crutch bent

---

Bent 1                      Pile 4  
pile is no longer in use and has been replaced by crutch bent

---

Bent 1                      Pile 5  
pile is no longer in use and has been replaced by crutch bent

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Bent 1                      Pile 6  
pile is no longer in use and has been replaced by crutch bent

---

Bent 1                      Pile 7  
pile is no longer in use and has been replaced by crutch bent

---

Bent 2                      Pile 4  
pile has been replaced with adjacent pile 5

---

Bent 2                      Pile 5  
pile is no longer in use and has been replaced by crutch bent

---

Bent 2                      Pile 7  
pile has been replaced with adjacent pile 6

---

Bent 3                      Pile 2  
pile is no longer in use and has been replaced by crutch bent

---

Bent 3                      Pile 3  
pile is no longer in use and has been replaced by crutch bent

---

Bent 3                      Pile 4  
pile is no longer in use and has been replaced by crutch bent

---

Bent 3                      Pile 5  
pile is no longer in use and has been replaced by crutch bent

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# National Bridge and NC Inspection Items

Structure Number: 910126

Inspection Date: 07/28/2022

## National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	3
Item 60: Substructure	0 - 9 , N	3
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	5
Item 72: Approach Roadway Alignment	0 - 9 , N	6

**Note:**

Items 58,59,60,62 reflect this inspection only.

For overall NBI coding grade, see cover sheet.

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			
Drainage System	G, F, P, or C			
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C			
Superstructure Paint Code				

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	Y
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	2
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	
Bucket Truck Used	YES/NO	
Boat Used	YES/NO	
Other Equipment Used	YES/NO	
Portion of Structure in > 3' of water	YES/NO	

# National Bridge and NC SMU Inspection Item Details

Structure Number: 910126

Inspection Date: 07/28/2022

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<b>Item</b>	Sign Notice Issued	<b>Grade</b>	Y	<b>Maint Code</b>		<b>Qty.</b>	0
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**Details** 1 Weight limit and 1 Delineator

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<b>Item</b>	Presently Posted	<b>Grade</b>	Y	<b>Maint Code</b>		<b>Qty.</b>	0
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**Details** SV 18 TTST 23



Span 3 Left Bridge Rail: PAR-Left rail in span 3 has impact damage and has completely separated from structure from midspan to bent 3. All post are missing in this area with spalling up to 1foot wide x 4 inches deep at post connections to curbing.



Span 3 Left Bridge Rail: PAR-Left rail in span 3 has impact damage and has completely separated from structure from midspan to bent 3. All post are missing in this area with spalling up to 1foot wide x 4 inches deep at post connections to curbing.





Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



Span 4 Left Bridge Rail: PAR-Left rail in span 4 has impact damage and has completely separated from structure along length. All post are missing with spalling up to 1 foot wide x 4 inches deep at post connections to curbing.



End Bent 2 Abutment: PAR- End Bent 2 bulkhead is broken and missing in a 5 foot long area at left end due to impact damage.



End Bent 2 Abutment: PAR- End Bent 2 bulkhead is broken and missing in a 5 foot long area at left end due to impact damage.



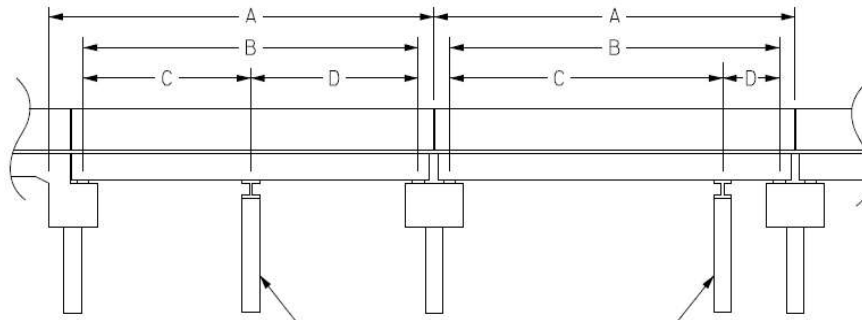
PAR-Posting sign SV 18 TTST 23 and Delineator missing from right shoulder at north approach.

# Structure Data Worksheet

## Span Profile

County: WAKE

Structure Number: 910126



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	30.417	28.670			
			1	27.500	1.167
2	30.000	28.670			
			1	1.167	27.500
			2	27.500	1.167
3	30.000	28.670			
			1	1.167	27.500
			2	27.500	1.167
4	30.417	28.670			
			1	1.167	27.500



Looking South



Looking North