



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **Priority Action Requested**
Snooper Recommended next Inspection

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 07/02/2019

DIVISION: 11 COUNTY: SURRY STRUCTURE NUMBER: 850126 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US52 SBL MILE POST: 135.1

LOCATION: 1.5 MI.N.JCT.NC268

FEATURE INTERSECTED: TOMS CREEK

LATITUDE: 36° 23' 50.02" LONGITUDE: 80° 29' 31.34"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON PPC GIRDERS

SUBSTRUCTURE: E.BTS:RC CAPS/H-PILES;INT.BTS:RC POST&BEAM

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 4 SUBSTRUCTURE 4 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: none



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

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS NO PLANS

looking north

INSPECTED BY Kyle H. Compton	SIGNATURE <i>Kyle H. Compton</i>	ASSISTED BY Jacob Zimmerman
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IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE 850126
 (8) STRUCTURE NUMBER (FEDERAL) 1710126
 (5) INVENTORY ROUTE (ON/UNDER) ON 121000520
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 11
 (3) COUNTY CODE (FEDERAL) 171 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED TOMS CREEK
 (7) FACILITY CARRIED US52 SBL
 (9) LOCATION 1.5 MI.N.JCT.NC268
 (11) MILEPOINT 135.1
 (12) BASE HIGHWAY NETWORK 1
 (13) LRS INVENTORY ROUTE & SUBROUTE 20056
 (16) LATITUDE 36° 23' 50.02" (17) LONGITUDE 80° 29' 31.34"
 (98) BORDER BRIDGE STATE CODE PERCENT SHARED
 (99) BORDER BRIDGE STRUCTURE NUMBER

SUFFICIENCY RATING 49.380000
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112) NBIS BRIDGE SYSTEM YES
 (104) HIGHWAY SYSTEM Inventory Route is on NHS 1
 (26) FUNCTIONAL CLASS Rural Principal Arterial - Other 02
 (100) STRAHNET HIGHWAY Interstate STRAHNET Route 1
 (101) PARALLEL STRUCTURE The left structure of parallel bridges L
 (102) DIRECTION OF TRAFFIC 1-way traffic 1
 (103) TEMPORARY STRUCTURE
 (110) DESIGNATED NATIONAL NETWORK - on national network for trucks 1
 (20) TOLL On Free Road 3
 (21) MAINT - 01
 (22) OWNER - 01
 (37) HISTORICAL SIGNIFICANCE - 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN Prestressed Concrete
 TYPE Stringer/Multi-beam or girder CODE 502
 (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 1
 (108) WEARING SURFACE/PROTECTIVE SYSTEM
 (A) TYPE OF WEARING SURFACE CODE 1
 (B) TYPE OF MEMBRANE CODE 0
 (C) TYPE OF DECK PROTECTION CODE 0

CONDITION CODE

(58) DECK 6
 (59) SUPERSTRUCTURE 4
 (60) SUBSTRUCTURE 4
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD H 20 + Mod 6
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-52 98
 (65) INVENTORY RATING METHOD - 1
 (66) INVENTORY RATING HS-28 54
 (70) BRIDGE POSTING No Posting Required 5
 (41) STRUCTURE OPEN, POSTED, OR CLOSED
 DESCRIPTION Open, no restriction A

AGE AND SERVICE

(27) YEAR BUILT 1960
 (106) YEAR RECONSTRUCTED 0.000000
 (42) TYPE OF SERVICE ON - Highway
 OFF - Waterway CODE 15
 (28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE 0
 (29) AVERAGE DAILY TRAFFIC 16000
 (30) YEAR OF ADT 2015 (109) TRUCK ADT PCT 14
 (19) BYPASS OR DETOUR LENGTH 1.0

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 4
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERT & HORIZ N
 (71) WATERWAY ADEQUACY 4
 (72) APPROACH ROADWAY ALIGNMENT 2
 (36) TRAFFIC SAFETY FEATURES 1010
 (113) SCOUR CRITICAL BRIDGES 8

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 53.0
 (49) STRUCTURE LENGTH 165.0
 (50) CURB OR SIDEWALK: LEFT 0.0 RIGHT 0.0
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB 28.0
 (52) DECK WIDTH OUT TO OUT 33.8
 (32) APPROACH ROADWAY WITH (W/ SHOULDERS) 26.0
 (33) BRIDGE MEDIAN Open median CODE 1
 (34) SKEW 0 (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9
 (54) MIN VERT UNDERCLEAR: REFERENCE 0.0
 (55) MIN LAT UNDERCLEARANCE RT: REFERENCE N 0.0
 (56) MIN LAT UNDERCLEARANCE LT: 0.0

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 32,000 YEAR OF FUTURE ADT 2025

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 07/17 (91) FREQUENCY 24
 (92) CRITICAL FEATURE INSPECTION (93) CFI DATE
 A) FRACTURE CRIT DETAIL 0 A)
 B) UNDERWATER INSP 0 B)
 C) OTHER SPECIAL INSP 0 C)

SCOUR

Superstructure Build Details

Span Number 1

Span Length 55.0830

Skew 0.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1850 Square Feet		
8	Movable Bearing	Movable Bearing	8 Each	Unknow	8
2	Concrete and Metal Railing	Other Bridge Railing	112 Feet	Galvanized Protective System	112
1	Strip SEal	Strip Seal Expansion Joint	33 Feet		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	220 Feet		

Span Number 2

Span Length 54.9170

Skew 90.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	220 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1839 Square Feet		
1	Standard Joint	Pourable Joint Seal	34 Feet		
8	Movable Bearing	Movable Bearing	8 Each	Unknow	8
2	Concrete and Metal Railing	Other Bridge Railing	110 Feet	Galvanized Protective System	110

Span Number 3

Span Length 55.2500

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	112 Feet	Galvanized Protective System	112
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1850 Square Feet		
4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	220 Feet		
8	Movable Bearing	Movable Bearing	8 Each	Unknow	8
2	Strip SEal	Strip Seal Expansion Joint	68 Feet		

Structure Element Scoring

Structure Number: 850126

Inspection Date 7/2/2019

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	5539	0	5518	21	0
109	0	Prestressed Concrete Open Girder/Beam	Beam	660	585	26	49	0
205	0	Reinforced Concrete Column	Piles and Columns	4	1	2	1	0
215	0	Reinforced Concrete Abutment	Abutments	100	100	0	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	20	20	0	0	0
225	0	Steel Pile	Piles and Columns	20	20	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	130	58	12	60	0
300	0	Strip Seal Expansion Joint	Expansion Joints	101	93	3	5	0
301	0	Pourable Joint Seal	Expansion Joints	34	32	0	2	0
311	0	Movable Bearing	Bearing Device	24	2	6	16	0
515	311	Steel Protective Coating	Bearing Device	24	3	0	0	21
321	0	Reinforced Concrete Approach Slabs	Approaches	700	645	0	55	0
333	0	Other Bridge Railing	Bridge Rail	334	188	146	0	0
515	333	Steel Protective Coating	Bridge Rail	334	334	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 850126

Inspection Date: 07/02/2019

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	30 Square Feet
3326	Reinforced Concrete Deck	Exposed Rebar	1 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	5494 Square Feet
3326	Reinforced Concrete Deck	Patched Areas	15 Square Feet
3306	Prestressed Concrete Open Girder/Bear	Delamination/Spall	7 Feet
3306	Prestressed Concrete Open Girder/Bear	Exposed Prestressing	21 Feet
3306	Prestressed Concrete Open Girder/Bear	Cracking (PSC)	10 Feet
3306	Prestressed Concrete Open Girder/Bear	Exposed Rebar	37 Feet
3348	Reinforced Concrete Column	Exposed Rebar	8 Each
3348	Reinforced Concrete Column	Delamination/Spall	11 Each
3348	Reinforced Concrete Pier Cap	Delamination/Spall	38 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	43 Feet
3334	Movable Bearing	Corrosion	2 Each
3318	Other Bridge Railing	Damage	146 Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	2 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	19 Square Feet

Element Structure Maintenance Quantities

Structure Number: 850126

Inspection Date 07/02/2019

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	100	0	0	0	100
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	700	0	55	0	645
Beam	3306	Maintenance Concrete Superstructure Components	75	660	0	49	26	585
Bearing Device	3334	Bridge Bearing	2	24	0	16	6	2
Bearing Device	3342	Clean and Paint Steel	21	24	21	0	0	3
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	146	334	0	0	146	188
Bridge Rail	3342	Clean and Paint Steel	0	334	0	0	0	334
Caps	3348	Maintenance of Concrete Substructure	81	130	0	60	12	58
Deck	3326	Maintenance of Concrete Deck	5540	5539	0	21	5518	0
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	135	0	7	3	125
Footing	3348	Maintenance of Concrete Substructure	0	20	0	0	0	20
Piles and Columns	3348	Maintenance of Concrete Substructure	19	4	0	1	2	1
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	20	0	0	0	20

Priority Actions Request

Structure Number 850126

Span1

Priority Level	Defect Type	Quantity	Defect Description
3326	Deck	Reinforced Concrete Deck	
2	Exposed Rebar	1	Span 1 Deck: (PAR) 1ft diameter by 1in spall with exposed rebar in left lane at bent 1 joint
3306	Beam 1	Prestressed Concrete Girder	
2	Exposed Rebar	4	Span 1 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm.
2	Exposed Prestressing	2	Span 1 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 21" x 2" deep with minor section loss to strands.
2	Exposed Prestressing	1	Span 1 Beam 1: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 2" deep with minor section loss to strands.
3306	Beam 2	Prestressed Concrete Girder	
2	Exposed Rebar	3	Span 1 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm
2	Exposed Prestressing	1	Span 1 Beam 2: (PAR) left bottom flange at bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 10" x 2" deep with minor section loss to strands.
3306	Beam 3	Prestressed Concrete Girder	
2	Exposed Prestressing	1	Span 1 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 2 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.
2	Exposed Rebar	4	Span 1 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm
3306	Beam 4	Prestressed Concrete Girder	
2	Exposed Rebar	2	Span 1 Beam 4: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm
2	Exposed Prestressing	2	Span 1 Beam 4: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 17" x 2" deep with minor section loss to strands.

Span2

3306 Beam 1 Prestressed Concrete Girder

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

Priority Actions Request

Structure Number 850126

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	3	Span 2 Beam 1: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1
2	Exposed Rebar	4	Span 2 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2
2	Exposed Prestressing	1	Span 2 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated with 3 cables exposed. Area is: from bottom edge up 8" x 11" x 2" deep with some section loss to strands.

3306 Beam 2 Prestressed Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	4	Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1
2	Exposed Rebar	4	Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2
2	Exposed Prestressing	1	Span 2 Beam 2: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.

3306 Beam 3 Prestressed Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	1	Span 2 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.
2	Exposed Rebar	4	Span 2 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2
2	Exposed Prestressing	1	Span 2 Beam 3: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 12" x 2" deep with minor section loss to strands.
2	Exposed Prestressing	1	Span 2 Beam 3: (PAR) left bottom flange over bent 2. Has a crack/spall and delaminated area with cables exposed. Area is: from bottom up 8" x 10" x 2" deep with some section loss to strands.
2	Exposed Prestressing	1	Span 2 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 10" x 2" deep. Strands appear to have some section loss.

3306 Beam 4 Prestressed Concrete Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Prestressing	1	Span 2 Beam 4: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 9" x 2" deep with minor section loss to strands.
2	Exposed Prestressing	2	Span 2 Beam 4: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: 8" x 13" x 1 1/2" deep with some section loss on strands.
2	Exposed Prestressing	2	Span 2 Beam 4: (PAR) right bottom over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 14" x 2" deep with some section loss to strands.

Span3

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

Priority Actions Request

Structure Number 850126

Priority Level	Defect Type	Quantity	Defect Description
3306	Beam 1	Prestressed Concrete Girder	
2	Exposed Prestressing	1	Span 3 Beam 1: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 7" x 9" x 1 1/2" deep with some section loss to strands.
2	Exposed Rebar	2	Span 3 Beam 1: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2

Priority Level	Defect Type	Quantity	Defect Description
3306	Beam 2	Prestressed Concrete Girder	
2	Exposed Prestressing	1	Span 3 Beam 2: (PAR) left bottom flange at bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 1 1/2" deep. Strands appear to have some section loss.
2	Exposed Rebar	3	Span 3 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2

Priority Level	Defect Type	Quantity	Defect Description
3306	Beam 3	Prestressed Concrete Girder	
2	Exposed Prestressing	1	Span 3 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 10" x 2" deep. Strands appear to have minor section loss.

Bent 1

Priority Level	Defect Type	Quantity	Defect Description
3348	Cap 1	Reinforced Concrete Pier Cap	
2	Exposed Rebar	6	Bent 1 Cap 1: (PAR) cap north face at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from top edge down 30" x 36" x 2" deep. With heavy rust and flaking on rebar.
2	Exposed Rebar	6	Bent 1 Cap 1: (PAR) cap north face under beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 3", from top edge down 29" x 54" x 1 1/2" deep with some heavy rust and flaking to rebar.

Priority Level	Defect Type	Quantity	Defect Description
3348	Pile 1	Reinforced Concrete Column	
2	Exposed Rebar	8	Bent 1 Pile 1: (PAR) northwest corner has a crack/spall and delaminated area. Located 16" below bottom of cap. Area on north face is: 6", area on west face is: 9" x 92" long.

Bent 2

3348	Cap 1	Reinforced Concrete Pier Cap	
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Priority Actions Request

Structure Number 850126

Priority Level	Defect Type	Quantity	Defect Description
2	Exposed Rebar	5	Bent 2 Cap 1: (PAR) cap bottom and north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 12", from bottom edge back 7" x 43" long x 5" deep.
2	Exposed Rebar	10	Bent 2 Cap 1: (PAR) cap north face at beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from bottom edge back 7", from top down 29" x 10' long x 2" deep with heavy rust and flaking on rebar.
2	Exposed Rebar	8	Bent 2 Cap 1: (PAR) cap top, north face and bottom at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top down 28", from top edge back 2", from bottom edge back 7" x 48".
2	Exposed Rebar	8	Bent 2 Cap 1: (PAR) cap top, north face in bay 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 16", from edge back 12" x 7' x 6" deep.

General Comments and Misc Items

General Comments and Misc Items

General Comments and Misc Items

Priority Level	Defect Type	Quantity	Defect Description
1		20	(PAR) 20ft impact damage to far left guardrail at end bent 2
1		3	(PAR) near right slope protection is undermined 4ft deep x 3ft x 9in

Element Condition and Maintenance Data

Structure Number: 850126

Inspection Date: 07/02/2019

Span 1 **Deck**
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,850	0	1,834	16	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	bottom of right overhang over bent 1. Has a crack/spall and delaminated area with rebar exposed. Area is: 4" x 9" x 1/2" deep., left side similar.	3	1	1	Square Feet
12	Patched Areas	top of deck left lane has scattered patches. patches are from: 10" x 10" up to 20" x 20".	3	11	11	Square Feet
12	Patched Areas	top of deck right lane has scattered patches. patches are from 3" x 4" up to 10" x 10".	3	4	4	Square Feet
12	Cracking (RC and Other)	top of deck has scattered map cracks.	2	1,834	1,834	Square Feet
12	Exposed Rebar	(PAR) 1ft diameter by 1in spall with exposed rebar in left lane at bent 1 joint	2		1	Square Feet

General Comments

Span 1 **Beam 1**
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	55	46	3	6	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Delamination/Spall	right web over bent 1. Has a crack/spall and delaminated area with rebar exposed located under end diaphragm. Area is: 6" x 16" x 1" deep.	3	2	2	Feet
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent bent 1.	3	4	4	Feet
109	Exposed Prestressing	(PAR) bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 21" x 2" deep with minor section loss to strands.	2	2	2	Feet
109	Exposed Prestressing	(PAR) bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 2" deep with minor section loss to strands.	2	1	1	Feet

General Comments

Span 1 **Beam 2**
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	55	51	1	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Rebar	(PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.	3	3	3	Feet
109	Exposed Prestressing	(PAR) left bottom flange at bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 10" x 2" deep with minor section loss to strands.	2	1	1	Feet

General Comments

Span 1 Beam 3

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	55	50	0	5	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Prestressing	(PAR) bottom flange over bent 1. Has a crack/spall and delaminated area with 2 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	3	1	1	Feet
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.	3	4	4	Feet

General Comments

Span 1 Beam 4

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
109	Prestressed Concrete Open Girder/Beam	55	51	2	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Rebar	(PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.	3	2	2	Feet
109	Exposed Prestressing	(PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 17" x 2" deep with minor section loss to strands.	2	2	2	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	56	21	35	0	0	Feet
515	Steel Protective Coating	56	56	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Damage	Span 1 left rail has torn areas due to impact damage.	2	35	35	Feet

General Comments

Span 1 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	Span 1 beam near bearing has scattered rust and flaking, anchor nut has 50 percent section loss.	3	1	1	Each
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	protective coating has failed.	4	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 1 Near Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	surface corrosion and covered in dirt.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 1 Near Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	surface corrosion and covered in dirt.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed.	4	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 1 Near Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	surface corrosion and covered in dirt.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 1 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	2	1		Each

515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet
General Comments						

Span 1 Expansion Joint

Strip SEal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
300	Strip Seal Expansion Joint	33	30	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
300	Seal Adhesion	Expansion joint 1 over end bent 1. Loss of seal adhesion due to cracking along edge of joint.	2	3	Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,839	0	1,837	2	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	bottom of right overhang over bent 1. Has a crack/spall and delaminated area with rebar exposed. Area is: 10" x 16" x 1 1/2" deep.	3	2	2 Square Feet
12	Cracking (RC and Other)	top of deck has hairline map cracking throughout.	2	1,813	1,813 Square Feet
12	Delamination/Spall	top of deck right lane has scattered crack/spalls and delamination.	2	24	24 Square Feet

General Comments

Span 2 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint Seal	34	32	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
301	Seal Adhesion	Expansion joint over bent 1 has seal adhesion loss due to cracking along edge of joint.	3	2	Feet

General Comments

Span 2 Beam 1

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	47	1	7	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Exposed Rebar	(PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1	3	3	3 Feet
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end	3	4	4 Feet

109	Exposed Prestressing	diaphragm at bent 2 (PAR) Span 2 beam 1 left bottom flange over bent 1. Has a crack/spall and delaminated with 3 cables exposed. Area is: from bottom edge up 8" x 11" x 2" deep with some section loss to strands.	2	1	1	Feet
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General Comments

Span 2 Beam 2
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Maint Qty
109	Prestressed Concrete Open Girder/Beam	55	46	1	8	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.	3	4	4 Feet
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	3	4	4 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 2 left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	2	1	1 Feet

General Comments

Span 2 Beam 3
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	Maint Qty
109	Prestressed Concrete Open Girder/Beam	55	45	3	7	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	Span 2 beam 3 left web over bent 1. Has a crack/spall and delaminated area with rebar exposed adjacent end diaphragm. Area is: 10" x 12" x 1/2" deep.	3	1	1 Feet
109	Delamination/Spall	Span 2 beam 3 left web under end diaphragm at bent 2. Has a crack/spall and delaminated area. Area is: 4" x 9" x 1/2" deep.	3	1	1 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 3 right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	3	1	1 Feet
109	Exposed Rebar	(PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	3	4	4 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 3 left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 12" x 2" deep with minor section loss to strands.	2	1	1 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 3 left bottom flange over bent 2. Has a crack/spall and delaminated area with cables exposed. Area is: from bottom up 8" x 10" x 2" deep with some section loss to strands.	2	1	1 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 3 right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 10" x 2" deep. Strands appear to have some section loss.	2	1	1 Feet

General Comments

Span 2 Beam 4

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	50	4	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Exposed Prestressing	(PAR) Span 2 beam 4 left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 9" x 2" deep with minor section loss to strands.	3	1	1 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 4 right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: 8" x 13" x 1 1/2" deep with some section loss on strands.	2	2	2 Feet
109	Exposed Prestressing	(PAR) Span 2 beam 4 right bottom over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 14" x 2" deep with some section loss to strands.	2	2	2 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	55	0	55	0	0 Feet
515	Steel Protective Coating	55	55	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Damage	Span 2 left rail has torn areas due to impact damage.	2	55	55 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	55	55	0	0	0 Feet
515	Steel Protective Coating	55	55	0	0	0 Square Feet

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

Span 2 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 2 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 2 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 2 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 2 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 2 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 2 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 2 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each

515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet
General Comments					

Span 3 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,850	0	1,847	3	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	3ft x 6in x 1in deep cracking and spall in left lane at end bent 2 joint	3	3	3	3 Square Feet
12	Cracking (RC and Other)	Span 3 top of deck has heavy map cracking in both lanes throughout.	2	1,847	1,847	Square Feet
General Comments						

Span 3 Expansion Joint

Strip SEal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
300	Strip Seal Expansion Joint	34	32	0	2	0 Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
300	Seal Adhesion	Expansion joint over bent 2. Has loss of seal adhesion due to cracking along edge in left lane.	3	2		Feet
General Comments						

Span 3 Beam 1

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	52	0	3	0 Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Prestressing	(PAR) Span 3 beam 1 right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 7" x 9" x 1 1/2" deep with some section loss to strands.	3	1	1	1 Feet
109	Exposed Rebar	(PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	3	2	2	2 Feet
General Comments						

Span 3 Beam 2

Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	41	10	4	0 Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
109	Exposed Prestressing	(PAR) Span 3 beam 2 left bottom flange at bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area	3	1	1	1 Feet

is: from bottom up 8" x 11" x 1 1/2" deep. Strands appear to have some section loss.

109	Exposed Rebar	(PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	3	3	3	Feet
109	Cracking (PSC)	Span 3 beam 2 web has scattered cracks.	2	10	10	Feet

General Comments

Span 3 Beam 3
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	54	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Exposed Prestressing	(PAR) Span 3 beam 3 right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 10" x 2" deep. Strands appear to have some section loss.	2	1	1 Feet

General Comments

Span 3 Beam 4
Prestressed Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
109	Prestressed Concrete Open Girder/Beam	55	52	0	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
109	Delamination/Spall	(PAR) Span 3 beam 4 right bottom flange over bent 2. Has a spalled area with 3 cables exposed. Area is: 8" x 15" x 2" deep with some section loss to strands.	3	2	2 Feet
109	Delamination/Spall	Span 3 beam 4 right web over bent 2. Has a crack/spall and delaminated area adjacent end diaphragm. Area is: 8" x 8" x 1/2" deep.	3	1	1 Feet

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	56	0	56	0	0 Feet
515	Steel Protective Coating	56	56	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
333	Damage	Span 3 left rail is torn with scrape marks throughtout due to impact damage.	2	56	56 Feet

General Comments

Span 3 Near Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 3 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	has scattered rust and flaking with no measurable section loss.	2	1		Each
515	Peeling/Bubbling/Cracking (Steel Protective Coatings)	protective coating is missing in scattered locations.	4	1	1	Square Feet

General Comments

Span 3 Near Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1		Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1	Square Feet

General Comments

Span 3 Far Bearing
Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	Bearing has no corrosion.	1	1		Each

General Comments

Span 3 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 3 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	Bearing has no corrosion.	1	1	Each

General Comments

Span 3 Near Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
311	Corrosion	heavy corrosion and scaling with up to 1/4in section loss.	3	1	Each
515	Effectiveness (Steel Protective Coatings)	protective coating has failed	4	1	1 Square Feet

General Comments

Span 3 Far Bearing

Movable Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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311 Corrosion Span 2 beam far bearing has scattered rust and flaking with no measurable section loss. 2 1 Each

General Comments

Span 3 Expansion Joint

Strip SEal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
300	Strip Seal Expansion Joint	34	31	0	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
300	Seal Adhesion	Expansion joint over end bent 2. Has loss of seal adhesion due to cracking along edge. Material is missing in right lane.	3	3	Feet

General Comments

End Bent 1 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	36	19	0	17	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	End bent 1 cap north face bay 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 9in x 8ft x 2in deep.	3	6	6 Feet
234	Delamination/Spall	End bent 1 cap north face. Has a crack/spall and delaminated area with efflorescence and rust stains visible. Area begins left of beam 3 and extends to right of beam 4. Area is: from top edge down 9in x 11ft long x 1in deep.	3	11	11 Feet

General Comments

Bent 1 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	29	15	0	14	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	Bent 1 cap north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: 10" x 10" x 1 1/2" deep.	3	2	2 Feet
234	Exposed Rebar	(PAR) Bent 1 cap north face at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from top edge down 30" x 36" x 2" deep. With heavy rust and flaking on rebar.	3	6	6 Feet
234	Exposed Rebar	(PAR) Bent 1 cap north face under beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 3", from top edge down 29" x 54" x 1 1/2" deep with some heavy rust and flaking to rebar.	3	6	6 Feet

General Comments

Bent 1

Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	Bent 1 pile 1 southwest corner. Has a crack/spall and delaminated area. Area on west face is: 5", area on south face is: 9" x 60" x 2" deep.	3		5	Each
205	Exposed Rebar	(PAR) Bent 1 pile 1 northwest corner has a crack/spall and delaminated area. Located 16" below bottom of cap. Area on north face is: 6", area on west face is: 9" x 92" long.	3	1	8	Each

General Comments

End Bent 2

Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	36	24	12	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	End bent 2 has scattered cracks.	2	12		Feet

General Comments

Bent 2

Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	29	0	0	29	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	Bent 2 cap south face and bottom between piles 1 and 2. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 18", from bottom edge back 21" x 60" long x 2" deep.	3	6	6	Feet
234	Delamination/Spall	Bent 2 cap south face and bottom has a crack/spall and delaminated area with rebar exposed at beam 3. Area is: from bottom edge up 11", from bottom edge back 6" x 60" long x 3" deep.	3	2	5	Feet
234	Delamination/Spall	Bent 2 cap south face under beam 2. Has a crack/spall and delaminated area. Area is: from top edge down 14" x 31" x 2" deep.	3		3	Feet
234	Exposed Rebar	(PAR) Bent 2 cap bottom and north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 12", from bottom edge back 7" x 43" long x 5" deep.	3	5	5	Feet
234	Exposed Rebar	(PAR) Bent 2 cap north face at beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from bottom edge back 7", from top down 29" x 7' long x 2" deep with heavy rust and flaking on rebar.	3		10	Feet
234	Exposed Rebar	(PAR) Bent 2 cap top, north face and bottom at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top down 28", from top edge back 2", from bottom edge back 7" x 48".	3	8	8	Feet
234	Exposed Rebar	(PAR) Bent 2 cap top, north face in bay 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 16", from edge back 12" x 7' x 6" deep.	3	8	8	Feet

Structure Number: 850126

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234	Cracking (RC and Other)	Bent 2 cap south face at beam 2. Has a crack and delaminated area. Area is: from bottom edge up 9", from edge back 6" x 34".	2				Feet
234	Cracking (RC and Other)	Bent 2 cap south face at beam 3. Has a cracked and delaminated area. Area is: from top edge down 6" x 56".	2				Feet
234	Delamination/Spall	Bent 2 cap north face under beam 2. Has a crack/spall and delaminated area. Area is: from top edge down 16", from edge back 2" x 60". Spall area is: 5" x 3" x 1" deep.	2				5 Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	Bent 2 pile 1 northeast corner. Has a cracked and delaminated area located 36" below cap. Area on east face is: 3", area on north face is: 8" x 20".	2	1		Each

General Comments

Bent 2 Pile 2

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	Bent 2 pile 2 northeast corner. Has a crack/spall and delaminated area located 23" from bottom of cap. Area on east face is: 7", area on north face is: 11" x 43" long x 1/2" deep.	2	1	6	Each

General Comments

Bent 2 Pile 8

Timber Pile

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

General Comments

Approach 1

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	350	295	0	55	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
321	Abrasion/Wear	full width by 2ft of missing aws at joint	3	40		Square Feet

Structure Number: 850126

Inspection Date: 07/02/2019

321 Cracking (RC and Other) full length by 1/8in crack along center of approach slab 3 15 Square Feet

General Comments

Approach has been paved over with aws

Approach 2

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	350	350	0	0	0	Square Feet

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

Approach has been paved over with aws

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1850
Span 1	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	56
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	56
Span 1	Expansion Joint	Strip SEal	Strip Seal Expansion Joint	33
Span 1	Near Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1839
Span 2	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 2	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 2	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 2	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	55
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	55
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	34
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1850
Span 3	Beam 1	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 3	Beam 2	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 3	Beam 3	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 3	Beam 4	Prestressed Concrete Girder	Prestressed Concrete Open Girder/Beam	55
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	56
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	56
Span 3	Expansion Joint	Strip SEal	Strip Seal Expansion Joint	34
Span 3	Expansion Joint	Strip SEal	Strip Seal Expansion Joint	34
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Movable Bearing	Movable Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	36
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	50

General Inspection Notes

Span 2

Right Bridge Rail

Span 3

Far Bearing

National Bridge and NC Inspection Items

Structure Number: 850126

Inspection Date: 07/02/2019

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	4
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	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	40	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		G		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Superstructure Paint Code				

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	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 850126

Inspection Date: 07/02/2019

Item	Deck - Item 58	Grade 6	Maint Code	Qty. 0
Details	unsound patches and spalls with exposed rebar in top and bottom of deck			
Item	Superstructure - Item 59	Grade 4	Maint Code	Qty. 0
Details	girder ends have spalls with exposed prestressing strands			
Item	Substructure - Item 60	Grade 4	Maint Code	Qty. 0
Details	delamination with spalls and exposed rebar and section loss in caps and columns			
Item	Priority Maintenance Issued	Grade Y	Maint Code	Qty. 0
Details	(PAR) spalls with exposed rebar in end diaphragms at bent 1 and bent 2 (PAR) girder ends have spalls with exposed prestressing strands (PAR) 30ft of impact damage to far left guardrail, 50ft from bridge (PAR) near right slope protection is undermined 4ft deep x 3ft x 9in (PAR) delamination with spalls and exposed rebar and section loss in caps and columns			
Item	Slope Protection	Grade F	Maint Code 3352	Qty. 40
Details	(PAR) near right slope protection is undermined 4ft deep x 3ft x 9in			



Approach 1: full width by 2ft of missing asphalt wearing surface at joint



Span 1 Deck: top of deck left lane has scattered patches. patches are from: 10" x 10" up to 20" x 20".



Span 1 Deck: (PAR) 1ft diameter by 1in spall with exposed rebar in left lane at bent 1 joint



Span 1 Left Bridge Rail: has torn areas due to impact damage.



Span 2 Left Bridge Rail: has torn areas due to impact damage.



(PAR) 20ft impact damage to far left guardrail at end bent 2



2ft x 1in spall to far left curb on approach



Expansion Joint : over end bent 2 has loss of seal adhesion due to cracking along edge. Material is missing in right lane.



Span 3 Deck: 3ft x 6in x 1in deep cracking and spall in left lane at end bent 2 joint



Expansion Joint : over bent 2 has loss of seal adhesion due to cracking along edge in left lane.



End Bent 1 Cap 1: north face bay 1, has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 9in x 8ft x 2in deep.



End Bent 1 Cap 1: north face has a crack/spall and delaminated area with efflorescence and rust stains visible. Area begins left of beam 3 and extends to right of beam 4. Area is: from top edge down 9in x 11ft long x 1in deep.



(PAR) near right slope protection is undermined 4ft deep x 3ft x 9in



Span 1 Beam 1 Near Bearing: has scattered rust and flaking, anchor nut has 50 percent section loss.



Span 1 Beam 2 Near Bearing: surface corrosion and covered in dirt.



Span 1 Beam 1: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 2" deep with minor section loss to strands.



Span 1 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.



Span 1 Beam 2: (PAR) left bottom flange at bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 10" x 2" deep with minor section loss to strands.



Span 1 Beam 2 Far Bearing: heavy corrosion and scaling with up to 1/4in section loss, typical all bearing at bent 1 and bent 2.



Span 2 Beam 2: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.



Span 2 Beam 3: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed.
Area is: from bottom up 8" x 12" x 2" deep with minor section loss to strands.



Span 1 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.



Span 1 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.



Bent 1 Pile 1: (PAR) northwest corner has a crack/spall and delaminated area. Located 16" below bottom of cap. Area on north face is: 6", area on west face is: 9" x 92" long.



Bent 1 Pile 1: Bent 1 pile 1 southwest corner. Has a crack/spall and delaminated area. Area on west face is: 5", area on south face is: 9" x 60" x 2" deep.



Span 1 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 2 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.



Span 2 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.



Span 2 Beam 4: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 9" x 2" deep with minor section loss to strands.



Span 1 Beam 4: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1.



Span 1 Beam 4: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 17" x 2" deep with minor section loss to strands.



Span 2 Beam 4: (PAR) right bottom over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 14" x 2" deep with minor section loss to strands.



Bent 2 Cap 1: cap south face and bottom between piles 1 and 2. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 18", from bottom edge back 21" x 60" long x 2" deep.



Span 2 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2



Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2



Span 2 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2



Span 1 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed.
Area is: from bottom edge up 8" x 21" x 2" deep with minor section loss to strands.



Span 2 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated with 3 cables exposed. Area is: from bottom edge up 8" x 11" x 2" deep with some section loss to strands.



vegetation over growth on bent 1 and bent 2



Span 2 Beam 1: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1



Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm



Bent 1 Cap 1: (PAR) cap north face at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from top edge down 30" x 36" x 2" deep. With heavy rust and flaking on rebar.



Bent 1 Cap 1: (PAR) cap north face under beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 3", from top edge down 29" x 54" x 1 1/2" deep with some heavy rust and flaking to rebar.



Span 3 Beam 1: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 7" x 9" x 1 1/2" deep with some section loss to strands.



Span 3 Beam 2: (PAR) left bottom flange at bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 1 1/2" deep. Strands appear to have some section loss.



Span 2 Beam 3: (PAR) left bottom flange over bent 2. Has a crack/spall and delaminated area with cables exposed. Area is: from bottom up 8" x 10" x 2" deep with some section loss to strands.



Span 3 Beam 1: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2



Bent 2 Cap 1: (PAR) cap north face at beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from bottom edge back 7", from top down 29" x 7' long x 2" deep with heavy rust and flaking on rebar.



Bent 2 Cap 1: (PAR) cap top, north face and bottom at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top down 28", from top edge back 2", from bottom edge back 7" x 48".



Bent 2 Cap 1: (PAR) cap bottom and north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 12", from bottom edge back 7" x 43" long x 5" deep.



Span 3 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2



Bent 2 Cap 1: (PAR) cap top, north face in bay 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 16", from edge back 12" x 7' x 6" deep.



Span 2 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 10" x 2" deep. Strands appear to have some section loss.



Span 3 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 10" x 2" deep. Strands appear to have some section loss.



Span 2 Beam 4: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: 8" x 13" x 1 1/2" deep with some section loss on strands.



Span 3 Beam 4: (PAR) right bottom flange over bent 2. Has a spalled area with 3 cables exposed. Area is: 8" x 15" x 2" deep with some section loss to strands.

Stream Bed Soundings

(Profile diagram on following sheet)

County SURRY

Structure Number: 850126

Inspection Date 07/02/2019

Sounding recorded from: Top of Bridge Rail

Highwater Mark Distance

Location of Highwater Mark

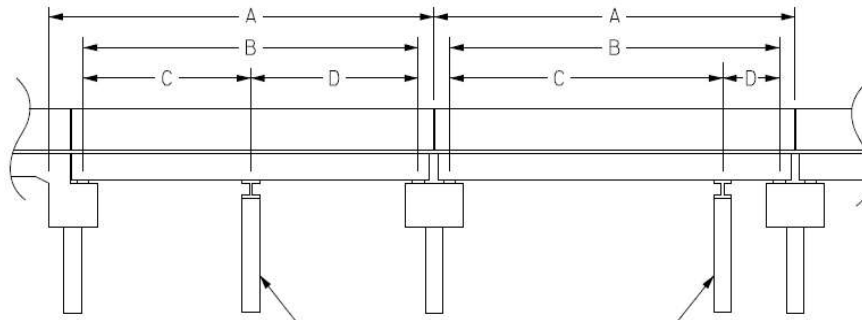
Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.000	0.000	top of fillface
1.000	2.000	0.000	
1.100	7.200	0.000	top of cap
2.400	7.200	0.000	
2.500	7.900	7.600	face of cap
3.000	8.300	0.000	top of slope
29.000	21.900	0.000	toe of slope
40.000	25.000	0.000	
55.000	24.700	28.500	bent 1
72.500	35.200	0.000	wswe
80.000	37.000	0.000	
90.000	36.500	0.000	
96.000	35.500	0.000	wswe
110.000	29.000	27.700	bent 2
129.000	22.500	0.000	toe of slope
159.000	8.200	0.000	top of slope
163.900	8.000	7.800	face of cap
164.000	7.200	0.000	top of cap
164.200	2.100	0.000	top of front face
165.200	2.100	0.000	top of fillface

Structure Data Worksheet

Span Profile

County: SURRY

Structure Number: 850126



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	55.083	53.167			
2	54.917	53.417			
3	55.250	53.330			



looking north



near left drainage structure



left guardrail



end bent 1 expansion joint



looking downstream



looking south



end bent 2 joint



looking upstream



downstream structure profile



upstream structure profile



span 1 bay 3 intermediate diaphragm



bent 1



end bent 1



span 2 superstructure



end bent 2











BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	1	Span 1 Beam 1: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 1 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm.	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 1 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 21" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 1 Beam 2: (PAR) left bottom flange at bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 10" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	3	Span 1 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 1 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 1 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 2 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 1 Beam 4: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 1 Beam 4: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 17" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 2 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined










BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated with 3 cables exposed. Area is: from bottom edge up 8" x 11" x 2" deep with some section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	3	Span 2 Beam 1: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 2: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 3: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 12" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	4	Span 2 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 3: (PAR) left bottom flange over bent 2. Has a crack/spall and delaminated area with cables exposed. Area is: from bottom up 8" x 10" x 2" deep with some section loss to strands.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined










BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 10" x 2" deep. Strands appear to have some section loss.	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 2 Beam 4: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 9" x 2" deep with minor section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 2 Beam 4: (PAR) right bottom over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 14" x 2" deep with some section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 2 Beam 4: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: 8" x 13" x 1 1/2" deep with some section loss on strands.	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 3 Beam 1: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 7" x 9" x 1 1/2" deep with some section loss to strands.	
 3306	Maintain Concrete Superstructure Components	SF	2	Span 3 Beam 1: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 3 Beam 2: (PAR) left bottom flange at bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 1 1/2" deep. Strands appear to have some section loss.	
 3306	Maintain Concrete Superstructure Components	SF	3	Span 3 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2	
 3306	Maintain Concrete Superstructure Components	SF	1	Span 3 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 10" x 2" deep. Strands appear to have minor section loss.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined









BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3326	Maintain Concrete Deck	SF	1	Span 1 Deck: (PAR) 1ft diameter by 1in spall with exposed rebar in left lane at bent 1 joint	
 3348	Maintain Concrete Substructure Components	LF	6	Bent 1 Cap 1: (PAR) cap north face at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from top edge down 30" x 36" x 2" deep. With heavy rust and flaking on rebar.	
 3348	Maintain Concrete Substructure Components	LF	6	Bent 1 Cap 1: (PAR) cap north face under beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 3", from top edge down 29" x 54" x 1 1/2" deep with some heavy rust and flaking to rebar.	
 3348	Maintain Concrete Substructure Components	LF	8	Bent 1 Pile 1: (PAR) northwest corner has a crack/spall and delaminated area. Located 16" below bottom of cap. Area on north face is: 6", area on west face is: 9" x 92" long.	
 3348	Maintain Concrete Substructure Components	LF	10	Bent 2 Cap 1: (PAR) cap north face at beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from bottom edge back 7", from top down 29" x 10' long x 2" deep with heavy rust and flaking on rebar.	
 3348	Maintain Concrete Substructure Components	LF	8	Bent 2 Cap 1: (PAR) cap top, north face and bottom at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top down 28", from top edge back 2", from bottom edge back 7" x 48".	
 3348	Maintain Concrete Substructure Components	LF	5	Bent 2 Cap 1: (PAR) cap bottom and north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 12", from bottom edge back 7" x 43" long x 5" deep.	
 3348	Maintain Concrete Substructure Components	LF	8	Bent 2 Cap 1: (PAR) cap top, north face in bay 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 16", from edge back 12" x 7' x 6" deep.	
0	No Maintenance Required	NA	20	(PAR) 20ft impact damage to far left guardrail at end bent 2	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850126

County SURRY


Date:


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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3352	Maint Slope Protection	SF	3	(PAR) near right slope protection is undermined 4ft deep x 3ft x 9in	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 1: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 21" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 2: (PAR) left bottom flange at bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 10" x 2" deep with minor section loss to strands.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	3 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 1 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 1 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 2 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 4: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 1 Beam 4: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 17" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 1: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 1: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated with 3 cables exposed. Area is: from bottom edge up 8" x 11" x 2" deep with some section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	3 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 1: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 2: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 2 Beam 2: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 1		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 2 Beam 3: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8' x 12" x 2" deep with minor section loss to strands.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 3: (PAR) right bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 8" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 3: (PAR) 4ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 3: (PAR) left bottom flange over bent 2. Has a crack/spall and delaminated area with cables exposed. Area is: from bottom up 8" x 10" x 2" deep with some section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom edge up 8" x 10" x 2" deep. Strands appear to have some section loss.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 4: (PAR) left bottom flange over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 9" x 9" x 2" deep with minor section loss to strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 4: (PAR) right bottom over bent 1. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 10" x 14" x 2" deep with some section loss to strands.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 2 Beam 4: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: 8" x 13" x 1 1/2" deep with some section loss on strands.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Span 3 Beam 1: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 7" x 9" x 1 1/2" deep with some section loss to strands.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	2 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 3 Beam 1: (PAR) 2ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 3 Beam 2: (PAR) left bottom flange at bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 11" x 1 1/2" deep. Strands appear to have some section loss.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	3 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 3 Beam 2: (PAR) 3ft x 8in x 2in deep spall with exposed rebar in end diaphragm at bent 2		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 3 Beam 3: (PAR) right bottom flange over bent 2. Has a crack/spall and delaminated area with 3 cables exposed. Area is: from bottom up 8" x 10" x 2" deep. Strands appear to have minor section loss.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3326	Maintain Concrete Deck	1 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Span 1 Deck: (PAR) 1ft diameter by 1in spall with exposed rebar in left lane at bent 1 joint		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	6 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
Bent 1 Cap 1: (PAR) cap north face at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from top edge down 30" x 36" x 2" deep. With heavy rust and flaking on rebar.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126

County SURRY

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	6 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 1 Cap 1: (PAR) cap north face under beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 3", from top edge down 29" x 54" x 1 1/2" deep with some heavy rust and flaking to rebar.</p>		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	8 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 1 Pile 1: (PAR) northwest corner has a crack/spall and delaminated area. Located 16" below bottom of cap. Area on north face is: 6", area on west face is: 9" x 92" long.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	10 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 2 Cap 1: (PAR) cap north face at beam 1. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge back 2", from bottom edge back 7", from top down 29" x 10' long x 2" deep with heavy rust and flaking on rebar.</p>		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	8 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 2 Cap 1: (PAR) cap top, north face and bottom at beam 4. Has a crack/spall and delaminated area with rebar exposed. Area is: from top down 28", from top edge back 2", from bottom edge back 7" x 48".</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	5 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 2 Cap 1: (PAR) cap bottom and north face at beam 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from bottom edge up 12", from bottom edge back 7" x 43" long x 5" deep.</p>		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	8 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
<p>Bent 2 Cap 1: (PAR) cap top, north face in bay 3. Has a crack/spall and delaminated area with rebar exposed. Area is: from top edge down 16", from edge back 12" x 7' x 6" deep.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

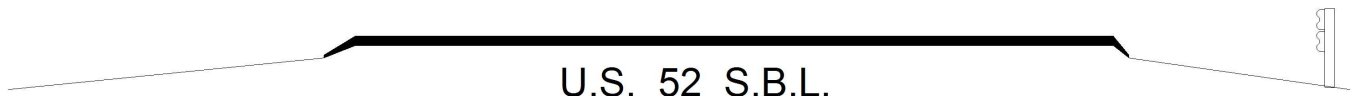
Bridge: 850126 County SURRY

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

MMS Code	MMS Description	Quantity
0	No Maintenance Required	20 NA
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
(PAR) 20ft impact damage to far left guardrail at end bent 2		

MMS Code	MMS Description	Quantity
3352	Maint Slope Protection	3 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
07/02/2019	Kyle H. Compton	
Details		
(PAR) near right slope protection is undermined 4ft deep x 3ft x 9in		

Bridge Inspection Field Sketch



U.S. 52 S.B.L.

MEASUREMENTS TAKEN AT END BENT 1

Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	11ft Wide	1ft Paved	10ft Unpaved
Right Shoulder	7.5ft Wide	0.5ft Paved	7ft Unpaved
Left Guardrail			
Right Guardrail	7ft from road		

VERIFIED 7/2/19 KHC

Title

APPROACH ROADWAY

Description

SOUTH APPROACH LOOKING NORTH

Bridge No: 850126

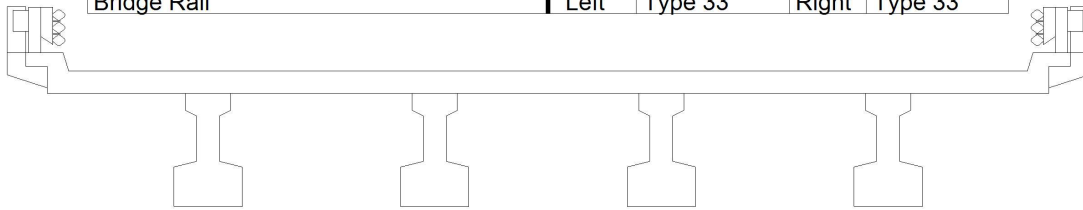
Drawn By: JWT

Date: 7/18/2013

File Name: S0138001024

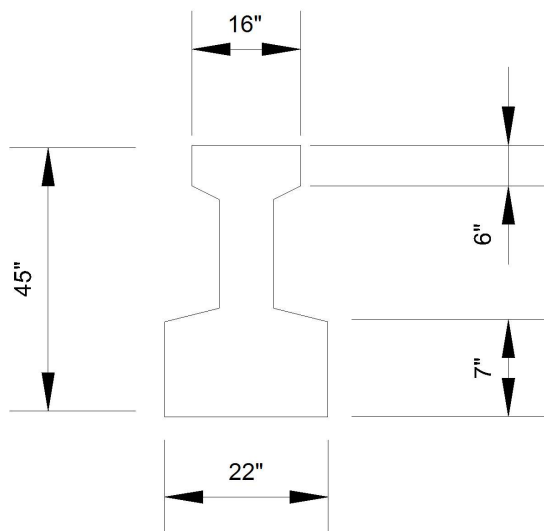
Bridge Inspection Field Sketch

Deck Width/Out to Out	33.833ft	Between Rails	28ft
Clear Roadway	28ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.833ft
		Right	0.833ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	2.917ft
		Right	2.917ft
Top of Rail to Deck/Wearing Surface		Left	2.583ft
		Right	2.583ft
Bridge Rail		Left	Type 33
		Right	Type 33



Measurements for Span #	1		
Deck Thickness	0.646	Left Overhang	4.917
Top of Rail to Bottom of Beam	6.917	Right Overhang	4.917

Beam Number	Beam Type	Spacing	Comments
1	PPC Girder	8ft	ALL SPANS SIMILAR
2	PPC Girder	8ft	
3	PPC Girder	8ft	
4	PPC Girder	ft	



VERIFIED 7/2/19 KHC

Title

TYPICAL SECTION

Description

SPAN 1, LOOKING NORTH

Bridge No: 850126

Drawn By: JWT

Date: 7/18/2013

File Name: S0138001025

Bridge Inspection Field Sketch

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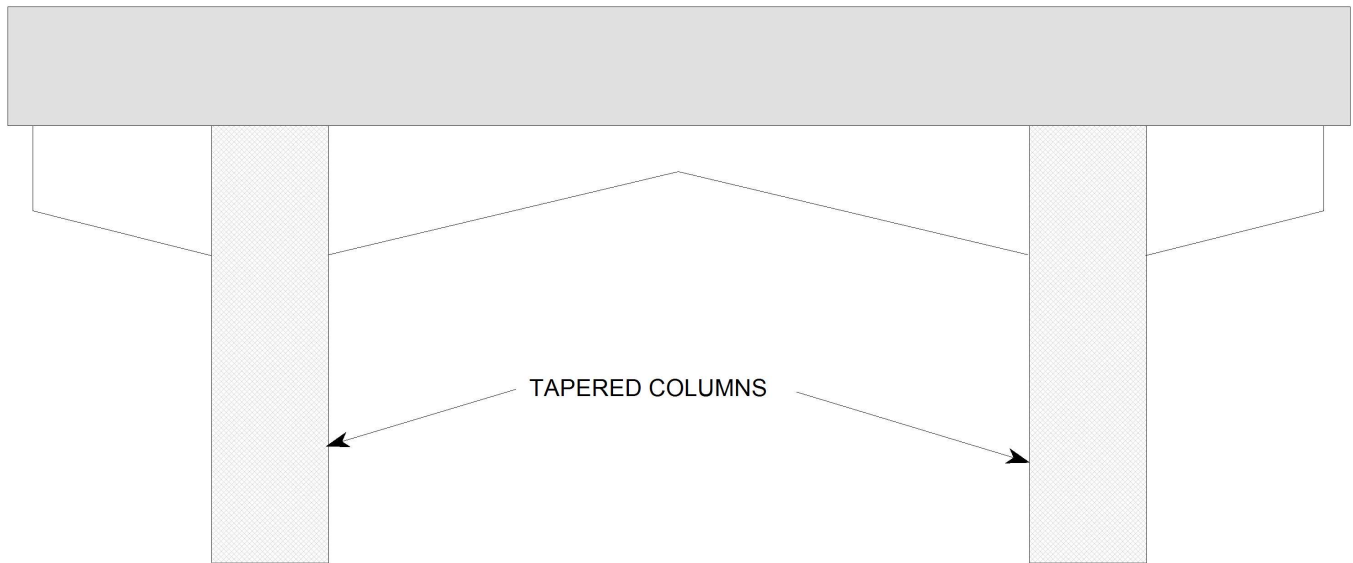
Title	Description		
BENT CAP CRACKS & SPALLS	BENT 1 CAP		
Bridge No: 850126	Drawn By: JWT	Date: 7/18/2013	File Name: S0138072507

Bridge Inspection Field Sketch

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Title	Description		
BENT CAP CRACKS & SPALLS	BENT 2 CAP		
Bridge No: 850126	Drawn By: JWT	Date: 7/18/2013	File Name: S0138072508

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
28.167 ft.	3.000 ft.	2.500 ft.	5.500 ft.	5.500 ft.	2.083 ft.	2.083 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	17.167 ft.	2.458 ft.		2.5 ft.	Vertical	No	No	No	No
2	Concrete		2.458 ft.		2.5 ft.	Vertical	No	No	No	No
<p style="font-size: 24px; margin: 0;">VERIFIED 7/2/19 KHC</p>										
Bent/Abutment #: 1			Similar Bents: 2							

Title				Description			
SUBSTRUCTURE				BENT 1, LOOKING NORTH			
Bridge No:	850126	Drawn By:	JWT	Date:	7/18/2013	File Name:	S0350000326