NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection - Contract

STRUCTURE NUMBER: 910775 **SAP STRUCTURE NO:** 0920775 **FHWA STRUCTURE NO:** 000000001830775

DIVISION: 5 **COUNTY:** WAKE **INSPECTION DATE:** 06/06/2022 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR2000 **MILE POST:**

LOCATION: JCT. OF I540 & SR2000

FEATURE INTERSECTED: I540

LATITUDE: 35° 53' 51.95" **LONGITUDE:** 78° 36' 35.91"

SUPERSTRUCTURE: RC DECK ON CONT. STL. PL. GDRS; APPROACH SLABS

SUBSTRUCTURE: E.BTS:RC. CAP ON H-PILES,BT:RC. P&B ON H-PILE FTG.

SPANS: 2 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

GRADES: (Inspector/NBI Coding) **DECK** 7 / 7 **SUPERSTRUCTURE** 8 / 8 **SUBSTRUCTURE** 7 / 7 **CULVERT** N / N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: NONE

SOUTH APPROACH LOOKING NORTH

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
H.W. HICKS, JR.		M.W. ROBERTSON

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

07/12/2022

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **910775**
(8) STRUCTURE NUMBER (FEDERAL) **1830775**
(5) INVENTORY ROUTE (ON/UNDER) ON **131020000**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **5**
(3) COUNTY CODE (FEDERAL) **183** (4) PLACE CODE **55000**
(6) FEATURE INTERSECTED **I540**
(7) FACILITY CARRIED **SR2000**
(9) LOCATION **JCT. OF I540 & SR2000**
(11) MILEPOINT **0.0**
(12) BASE HIGHWAY NETWORK **0**
(13) LRS INVENTORY ROUTE & SUBROUTE
(16) LATITUDE **35° 53' 51.95"** (17) LONGITUDE **78° 36' 35.91"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Steel Continuous**
TYPE **Stringer/Multi-beam or girder** CODE **402**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **2**
(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 **1**

AGE AND SERVICE

(27) YEAR BUILT **2001**
(106) YEAR RECONSTRUCTED **0**
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **7** LANES UNDER STRUCTURE **9**
(29) AVERAGE DAILY TRAFFIC **45000**
(30) YEAR OF ADT **2018** (109) TRUCK ADT PCT **6**
(19) BYPASS OR DETOUR LENGTH **1.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **149.0**
(49) STRUCTURE LENGTH **288.0**
(50) CURB OR SIDEWALK: LEFT **0.0** RIGHT **5.0**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **98.3**
(52) DECK WIDTH OUT TO OUT **106.0**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **103.0**
(33) BRIDGE MEDIAN **No median** CODE **0**
(34) SKEW **12** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **98.3**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **17.5**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **26.0**
(56) MIN LAT UNDERCLEARANCE LT: **26.7**

NAVIGATION DATA

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

SUFFICIENCY RATING **80.90**
STATUS =

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route not on NHS** **0**
(26) FUNCTIONAL CLASS **Urban Minor Collector** **16**
(100) STRAHNET HIGHWAY **Not a STRAHNET Route** **0**
(101) PARALLEL STRUCTURE **No parallel structure exists** **N**
(102) DIRECTION OF TRAFFIC **2-way traffic** **2**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on national network for trucks** **0**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **7**
(59) SUPERSTRUCTURE **8**
(60) SUBSTRUCTURE **7**
(61) CHANNEL & CHANNEL PROTECTION **N**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **H 20 + Mod** **6**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-49** **89**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-29** **53**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **7**
(68) DECK GEOMETRY **6**
(69) UNDERCLEARANCES, VERT & HORIZ **7**
(71) WATERWAY ADEQUACY **N**
(72) APPROACH ROADWAY ALIGNMENT **8**
(36) TRAFFIC SAFETY FEATURES **1111**
(113) SCOUR CRITICAL BRIDGES **N**

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 **90,000** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **06/18** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL A)
B) UNDERWATER INSP B)
C) OTHER SPECIAL INSP C)
SCOUR

Structure Number **910775** County **WAKE** Run Date **07/12/2022**

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
1	I540E	11005400	17.5	0.0	1	10540	11	5	44500	2013	99.9	H	17.1	43.9	26.8	7		1	☐	☐
1	I540E	11005400	17.5		1	10540	11	5	46000	2018	99.9	H	17.1	43.9	26.8	7	1	1	☐	☐
2	I540W	11005400	18.4		1	10540	11	4	46000	2018	88.0	H	17.5	26.0	26.7	7	1	1	☐	☐
2	I540W	11005400	18.4	0.0	1	10540	11	4	44500	2013	88.0	H	17.5	26.0	26.7	7		1	☐	☐

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Span Number 1 **Span Length** 136.8760 **Skew** 78.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	14591 Square Feet		
14	Pot Bearing	Pot Bearing	14 Each		
28	Pot Bearing	Pot Bearing	28 Each	Galvanized Protective System	0
14	Plate Girder	Steel Open Girder/Beam	3990 Feet	WS with Acrylic Primer and Topcoat	62374
2	Concrete and Metal Railing	Other Bridge Railing	274 Feet		
1	Compression Seal	Compression Joint Seal	100 Feet		

Span Number 2 **Span Length** 151.2460 **Skew** 78.0000

Number of Items	Type of Component	Element Name	Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	302 Feet		
1	Compression Seal	Compression Joint Seal	100 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	16123 Square Feet		

Structure Element Scoring

Structure Number: **910775**

Inspection Date **6/6/2022**

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	30714	6714	24000	0	0
107	0	Steel Open Girder/Beam	Beam	3990	3990	0	0	0
515	107	Steel Protective Coating	Beam	62374	62374	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	6	6	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	270	249	21	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	0	0	0	0	0
225	0	Steel Pile	Piles and Columns	64	64	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	335	311	24	0	0
521	234	Concrete Protective Coating	Caps	1634	1634	0	0	0
302	0	Compression Joint Seal	Expansion Joints	200	83	37	0	80
314	0	Pot Bearing	Bearing Device	42	35	7	0	0
515	314	Steel Protective Coating	Bearing Device	0	0	0	0	0
321	0	Reinforced Concrete Approach Slabs	Approaches	1326	1230	96	0	0
333	0	Other Bridge Railing	Bridge Rail	576	508	68	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **910775** Inspection Date: **06/06/2022**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	24000 Square Feet
3310	Compression Joint Seal	Seal Adhesion	80 Feet
3334	Pot Bearing	Connection	7 Each
3353	Reinforced Concrete Approach Slabs	Cracking (RC and Other)	96 Square Feet

Element Structure Maintenance Quantities

Structure Number: **910775** Inspection Date **06/06/2022**

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	270	0	0	21	249
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	96	1326	0	0	96	1230
Beam	3314	Maintenance Steel Superstructure Components	0	3990	0	0	0	3990
Beam	3342	Clean and Paint Steel	0	62374	0	0	0	62374
Bearing Device	3334	Bridge Bearing	7	42	0	0	7	35
Bearing Device	3342	Clean and Paint Steel	0	0	0	0	0	0
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	576	0	0	68	508
Caps	3348	Maintenance of Concrete Substructure	0	335	0	0	24	311
Caps	5603	Partial Cleaning and Painting of Structural Steel	0	1634	0	0	0	1634
Deck	3326	Maintenance of Concrete Deck	24000	30714	0	0	24000	6714
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	80	200	80	0	37	83
Footing	3348	Maintenance of Concrete Substructure	0	0	0	0	0	0
Piles and Columns	3348	Maintenance of Concrete Substructure	0	6	0	0	0	6
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	64	0	0	0	64

Element Condition and Maintenance Data

Structure Number: **910775** Inspection Date: **06/06/2022**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	14,591	2,591	12,000	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **12**	Cracking (RC and Other)	TOP OF THE DECK AT THE SOUTH END, SCATTERED ACROSS THE WIDTH, LONGITUDINAL CRACKING TO 1/64" WIDE EMANATES FROM THE JOINT HEADER, AND TRANSVERSE CRACKING TO 1/64" WIDE SCATTERED THROUGHOUT; UNDERSIDE OF THE OVERHANGS, SCATTERED HAIRLINE TRANSVERSE CRACKING WITH SOME EFFLORESCENCE	2	12,000	12,000	Square Feet

General Comments

Span 1 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	137	131	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	PARTIAL DEPTH VERTICAL HAIRLINE TO OPEN (1/32") CRACKING IN BRIDGE RAILING. FULL HEIGHT VERTICAL HAIRLINE CRACKS WITH LIGHT EFFLORESCENCE IN NEGATIVE MOMENT REGION, 4 TOTAL	2	6		Feet

General Comments

Span 1 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	137	101	36	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **333**	Cracking	FULL HEIGHT VERTICAL HAIRLINE CRACKING IN RIGHT BRIDGE RAILING IN NEGATIVE MOMENT REGION	2	4		Feet
☑ **333**	Cracking	VERTICAL HAIRLINE TO OPEN (1/32") CRACKING IN BRIDGE RAILING - SPAN 1 RIGHT SIDE AT MIDSPAN	2	17		Feet
☑ **333**	Deterioration (Other)	SCATTERED SCALING UP TO 1/8" DEEP ALONG FACE OF CURB AT NEAR END.	2	15		Feet
☑ **333**	Cracking	HORIZONTAL HAIRLINE CRACKING (12' LONG) AT NEAR END	1	12		Feet

General Comments

Span 1 — Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	100	38	12	0	50	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **302**	Seal Adhesion	50% ADHESION LOSS OF DECK JOINT. JOINT LEAKING AT BAYS 8, 9, 12, 13 AT END BENT 1.	4	50	50	Feet
☑ **302**	Adjacent Deck or Header	ADJACENT DECK HEADERS, SCATTERED ALONG THE LENGTH, EDGE CHIPPING [UP TO 3/4" WIDE X 3/4" DEEP]	2	12		Feet

General Comments

Span 1 — Far Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 1 FAR BEARING(1) OF (4) CONNECTION NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Span 1 — Far Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 3 FAR BEARING(1) OF (4) CONNECTION NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Span 1 — Near Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 5 NEAR BEARING(1) OF (4) SPAN 1 BEAM 5 ANCHOR NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Structure Number: **910775** Inspection Date: **06/06/2022**

Span 1 — Far Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 5 FAR BEARING(1) OF (4) ANCHOR NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Span 1 — Far Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 9 FAR BEARING (1) OF (4) CONNECTION NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Span 1 — Near Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 10 NEAR BEARING (1) OF (4) ANCHOR NUTS LOOSE [REAR]	2	1	1	Each

General Comments

Span 1 — Far Bearing

Pot Bearing

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **314**	Connection	SPAN 1 BEAM 13 FAR BEARING (1) OF (4) CONNECTION NUTS LOOSE [NEAR]	2	1	1	Each

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	16,123	4,123	12,000	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**12**	Cracking (RC and Other)	TOP OF THE DECK AT THE SOUTH END, SCATTERED ACROSS THE WIDTH, LONGITUDINAL CRACKING TO 1/64" WIDE EMANATES FROM THE JOINT HEADER, AND TRANSVERSE CRACKING TO 1/64" WIDE SCATTERED THROUGHOUT; UNDERSIDE OF THE OVERHANGS, SCATTERED HAIRLINE TRANSVERSE CRACKING WITH SOME EFFLORESCENCE	2	12,000	12,000	Square Feet

General Comments

Span 2 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	151	144	7	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**333**	Cracking (RC and Other)	VERTICAL HAIRLINE TO OPEN (1/32") CRACKING IN BRIDGE RAILING	2	7		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	151	132	19	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**333**	Cracking (RC and Other)	VERTICAL HAIRLINE TO OPEN (1/32") CRACKING IN BRIDGE RAILING - SPAN 1 RIGHT SIDE AT MIDSPAN	2	19		Feet
☑	**333**	Cracking	FULL HEIGHT VERTICAL HAIRLINE CRACKING IN RIGHT BRIDGE RAILING IN NEGATIVE MOMENT REGION	1	4		Feet
☑	**333**	Cracking	HORIZONTAL HAIRLINE CRACKING (5' LONG) AT MID-SPAN	1	5		Feet

General Comments

Span 2 Expansion Joint

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	100	45	25	0	30	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	

☑ **302**	Seal Adhesion	SEAL ADHESION FAILURE, SCATTERED LEAKING THROUGHOUT END BENT 2 JOINT.	4	30	30	Feet
☑ **302**	Adjacent Deck or Header	ADJACENT DECK HEADERS, SCATTERED ALONG THE LENGTH, EDGE CHIPPING [UP TO 1" WIDE X 1" DEEP] ALONG END BENT 2 JOINT.	2	25		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	105	91	14	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	CRACKING ON BOTH FACES OVER COLUMN 1 & 6, HAIRLINE to 1/64" WIDE CRACKS ARE DIAGONAL AND VERTICAL, RUNNING FROM TOP EDGE DOWN TOWARDS BOTTOM EDGE. MINOR HAIRLINE CRACK AT BOTTOM OF CAP BETWEEN COLUMNS 5 & 6	2	14		Feet

General Comments

Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	135	118	17	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **215**	Cracking (RC and Other)	VERTICAL HAIRLINE TO 1/64" WIDE CRACK, FULL HEIGHT IN BAY 3, 9, 10 11 & 12. LONGITUDINAL HAIRLINE CRACK TO 1/64" WIDE IN TOP OF BACKWALL (12 TOTAL)	2	17		Feet

General Comments

Bent 2 — CAP

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	115	105	10	0	0	Feet
521	Concrete Protective Coating	1,634	1,634	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑ **234**	Cracking (RC and Other)	(10) SCATTERED VERTICAL HAIRLINE CRACKS UP TO 1' HIGH.	2	10		Feet

General Comments

Bent 2 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	135	131	4	0	0	Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**215**	Cracking (RC and Other)	2 DIAGONAL HAIRLINE CRACKS (2' EACH) AT LEFT AND RIGHT SIDE ABUTMENT EXTENSIONS, FULL HEIGHT VERTICAL AND DIAGONAL HAIRLINE CRACKS	2	4		Feet

General Comments

Approach 1

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	663	615	48	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**321**	Cracking (RC and Other)	SCATTERED ACROSS THE WIDTH, FULL LENGTH LONGITUDINAL CRACKING TO 1/32" WIDE	2	48	48	Square Feet

General Comments

Approach 2

Reinforced Concrete Approach Slab

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
321	Reinforced Concrete Approach Slabs	663	615	48	0	0	Square Feet

	Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
☑	**321**	Cracking (RC and Other)	SCATTERED ACROSS THE WIDTH, FULL LENGTH LONGITUDINAL CRACKING TO 1/32" WIDE	2	48	48	Square Feet

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	14591
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 10	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 11	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 12	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 13	Plate Girder	Steel Open Girder/Beam	285
Span 1	Beam 14	Plate Girder	Steel Open Girder/Beam	285
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	137
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	137
Span 1	Expansion Joint	Compression Seal	Compression Joint Seal	100
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Near Bearing	Pot Bearing	Pot Bearing	1
Span 1	Intermediate Bearing	Pot Bearing	Pot Bearing	1
Span 1	Far Bearing	Pot Bearing	Pot Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	16123
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	151
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	151
Span 2	Expansion Joint	Compression Seal	Compression Joint Seal	100
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	105
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 4	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 5	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 6	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	115
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	135
End Bent 2	CAP	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	115
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	135
Approach1		Reinforced Concrete Approach Slab	Reinforced Concrete Approach Slabs	663
Approach2		Reinforced Concrete Approach Slab	Reinforced Concrete Approach Slabs	663

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 910775 **Inspection Date:** 06/06/2022

National Bridge Inventory Items

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

Note:

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

For overall NBI coding grade, see cover sheet.

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**F**	**29528**	**3376**
Drainage System	G, F, P, or C	**F**	**0**	**3332**
Utilities	G, F, P, or C	**G**		
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C			
Fender System	G, F, P, or C			
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Superstructure Paint Code		**X**		

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**N**
Inspection Time	Hours	**4**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
Ladder Used	YES/NO	**Y**
Bucket Truck Used	YES/NO	**N**
Boat Used	YES/NO	**N**
Other Equipment Used	YES/NO	**N**
Portion of Structure in > 3' of water	YES/NO	**N**

National Bridge and NC SMU Inspection Item Details

Structure Number: 910775 **Inspection Date:** 06/06/2022

Item	Deck Debris	**Grade**	F	**Maint Code**	3376	**Qty.**	29528
Details	DECK DEBRIS UP TO 4" WIDE X 1" DEEP ALONG BOTH SHOULDERS						

Item	Drainage System	**Grade**	F	**Maint Code**	3332	**Qty.**	0
Details	SEE DECK DEBRIS						

DECK DEBRIS UP TO 4" WIDE X 1" DEEP ALONG BOTH SHOULDERS

Approach 1 : SCATTERED ACROSS THE WIDTH, FULL LENGTH LONGITUDINAL CRACKING TO 1/32" WIDE

Span 1 Expansion Joint: 50% ADHESION LOSS OF DECK JOINT. JOINT LEAKING AT BAYS 8, 9, 12, 13 AT END BENT 1.

Span 1 Right Bridge Rail: SCATTERED SCALING UP TO 1/8" DEEP ALONG FACE OF CURB AT NEAR END.

Span 1 Right Bridge Rail: FULL HEIGHT VERTICAL HAIRLINE CRACKING IN RIGHT BRIDGE RAILING IN NEGATIVE MOMENT REGION

Span 1 Deck: TOP OF THE DECK AT THE SOUTH END, SCATTERED ACROSS THE WIDTH, LONGITUDINAL CRACKING TO 1/64" WIDE EMANATES FROM THE JOINT HEADER, AND TRANSVERSE CRACKING TO 1/64" WIDE SCATTERED THROUGHOUT; UNDERSIDE OF THE OVERHANGS, SCATTERED HAIRLINE TRANSVERSE CRACKING WITH SOME EFFLORESCENCE

Span 1 Left Bridge Rail: PARTIAL DEPTH VERTICAL HAIRLINE TO OPEN (1/32") CRACKING IN BRIDGE RAILING. FULL HEIGHT VERTICAL HAIRLINE CRACKS WITH LIGHT EFFLORESCENCE IN NEGATIVE MOMENT REGION, 4 TOTAL

Span 2 Expansion Joint: SEAL ADHESION FAILURE, SCATTERED LEAKING THROUGHOUT END BENT 2 JOINT.

Span 2 Expansion Joint: ADJACENT DECK HEADERS, SCATTERED ALONG THE LENGTH, EDGE CHIPPING [UP TO 1" WIDE X 1" DEEP] ALONG END BENT 2 JOINT.

Span 2 Deck: TOP OF THE DECK AT THE SOUTH END, SCATTERED ACROSS THE WIDTH, LONGITUDINAL CRACKING TO 1/64" WIDE EMANATES FROM THE JOINT HEADER, AND TRANSVERSE CRACKING TO 1/64" WIDE SCATTERED THROUGHOUT; UNDERSIDE OF THE OVERHANGS, SCATTERED HAIRLINE TRANSVERSE CRACKING WITH SOME EFFLORESCENCE

End Bent 1 Abutment: VERTICAL HAIRLINE TO 1/64" WIDE CRACK, FULL HEIGHT IN BAY 3, 9, 10 11 & 12. LONGITUDINAL HAIRLINE CRACK TO 1/64" WIDE IN TOP OF BACKWALL (12 TOTAL)

Span 1 Beam 5 - Near Bearing: (1) OF (4) SPAN 1 BEAM 5 NEAR ANCHOR NUTS LOOSE [REAR]

Span 1 Beam 10 - Near Bearing: SPAN 1 BEAM 10 (1) OF (4) ANCHOR NUTS LOOSE [REAR]

Bent 1 Cap 1: CRACKING ON BOTH FACES OVER COLUMN 1 & 6, HAIRLINE to 1/64" WIDE CRACKS ARE DIAGONAL AND VERTICAL, RUNNING FROM TOP EDGE DOWN TOWARDS BOTTOM EDGE. MINOR HAIRLINE CRACK AT BOTTOM OF CAP BETWEEN COLUMNS 5 & 6

Span 1 Deck: TOP OF THE DECK AT THE SOUTH END, SCATTERED ACROSS THE WIDTH, LONGITUDINAL CRACKING TO 1/64" WIDE EMANATES FROM THE JOINT HEADER, AND TRANSVERSE CRACKING TO 1/64" WIDE SCATTERED THROUGHOUT; UNDERSIDE OF THE OVERHANGS, SCATTERED HAIRLINE TRANSVERSE CRACKING WITH SOME EFFLORESCENCE

Span 1 Beam 3 - Far Bearing: SPAN 1 BEAM 3 FAR BEARING(1) OF (4) CONNECTION NUTS LOOSE [REAR]

Span 1 Beam 9 - Far Bearing: SPAN 1 BEAM 9 FAR BEARING (1) OF (4) CONNECTION NUTS LOOSE [REAR]

Span 1 Beam 13 - Far Bearing: SPAN 1 BEAM 13 FAR BEARING (1) OF (4) CONNECTION NUTS LOOSE [NEAR]

Span 1 Far Bearing: SPAN 1 BEAM 5 FAR BEARING(1) OF (4) ANCHOR NUTS LOOSE [REAR]

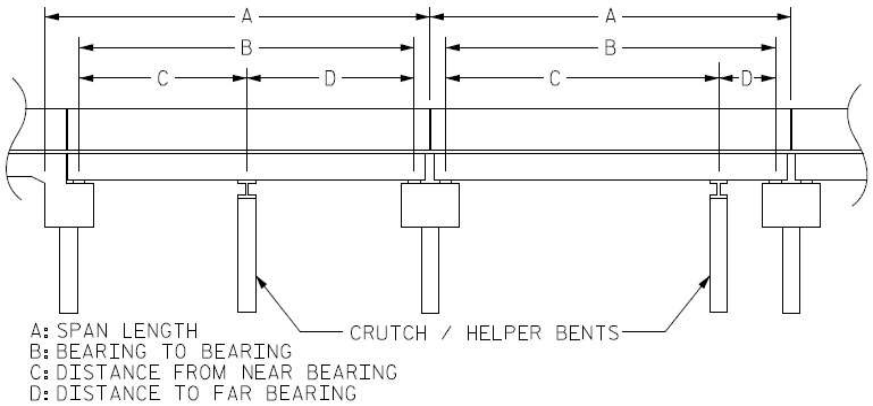
End Bent 2 Abutment: 2 DIAGONAL HAIRLINE CRACKS (2' EACH) AT LEFT AND RIGHT SIDE ABUTMENT EXTENSIONS, FULL HEIGHT VERTICAL AND DIAGONAL HAIRLINE CRACKS

End Bent 2 CAP: (10) SCATTERED VERTICAL HAIRLINE CRACKS UP TO 1' HIGH.

Structure Data Worksheet

Span Profile

County: **WAKE** Structure Number: **910775**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	136.876	134.662			
2	151.246	149.032			

Structure Number: 910775 Span: 1 Route Name: I540E

SPAN 1 OPENING LOOKING EAST

Route Number: 11005400	**Route Name:** I540E			**Reference Feature:** H
Minimum Vertical Clearance 17.080 feet	**Maximum Minimum Vertical Clearance** 17.500 feet			
Total Horizontal Clearance 99.900 feet	**Lateral Clearances: Left:** 26.800 feet **Right** 43.900 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10540			
Milepost: 0.000	**Number of Lanes:** 5	**ADT:** 44500	**Year of ADT:** 2013	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11 Local Principal Arterial - Interstate		**Direction of Traffic:** 1 1 - way traffic		

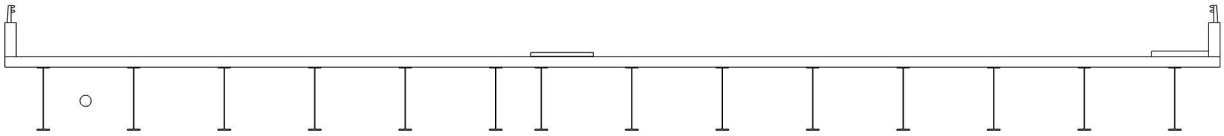
Structure Number: 910775 Span: 2 Route Name: I540W

SPAN 2 OPENING LOOKING WEST

Route Number: 11005400	**Route Name:** I540W			**Reference Feature:** H
Minimum Vertical Clearance 17.500 feet	**Maximum Minimum Vertical Clearance** 18.400 feet			
Total Horizontal Clearance 88.000 feet	**Lateral Clearances: Left:** 26.700 feet **Right** 26.000 feet			
☑ **Base Highway Network**	**LRS Inventory Route, Sub Route Number** 10540			
Milepost: 0.000	**Number of Lanes:** 4	**ADT:** 44500	**Year of ADT:** 2013	**Percentage of Trucks:** 16
☑ **National Highway System**		☐ **STRAHNET Highway Designator**		
Functional Classification 11	Local Principal Arterial - Interstate	**Direction of Traffic:** 1	1 - way traffic	

Bridge Inspection Field Sketch

Deck Width/Out to Out	106ft	Between Rails			103.33ft
Clear Roadway	98.33ft	Wearing Surface			
Median Width	4ft	Median Height			0.5ft
Curb Height		Left		Right	0.5ft
Sidewalk Width		Left		Right	5ft
Clear Roadway (Rail to Median)		Left	45.333ft	Right	50ft
Guardrail Width		Left	1.167ft	Right	1.167ft
Top of Rail to Deck/Wearing Surface		Left	4.5ft	Right	4.5ft
Bridge Rail Type		Left	Type 70	Right	Type 70



2" DIA. STEEL UTILITY

Measurements for Span #	1		
Deck Thickness	11in	Left Overhang	3.375ft
Top of Rail to Bottom of Beam (Avg)	10.953ft	Right Overhang	3.375ft

Beam #	Beam Type	Width	Height	Spacing	From
1	Plate Girder	13.5in	66.43in	3.375ft	Left Edge of Deck
2	Plate Girder	13.5in	66.43in	7.938ft	Beam 1
3	Plate Girder	13.5in	66.43in	7.938ft	Beam 2
4	Plate Girder	13.5in	66.43in	7.938ft	Beam 3
5	Plate Girder	13.5in	66.43in	7.938ft	Beam 4
6	Plate Girder	13.5in	66.43in	7.938ft	Beam 5
7	Plate Girder	13.5in	66.43in	4ft	Beam 6
8	Plate Girder	13.5in	66.43in	7.938ft	Beam 7
9	Plate Girder	13.5in	66.43in	7.938ft	Beam 8
10	Plate Girder	13.5in	66.43in	7.938ft	Beam 9
11	Plate Girder	13.5in	66.43in	7.938ft	Beam 10
12	Plate Girder	13.5in	66.43in	7.938ft	Beam 11
13	Plate Girder	13.5in	66.43in	7.938ft	Beam 12
14	Plate Girder	13.5in	66.43in	7.938ft	Beam 13

WEB THICKNESS: .500" FLANGE THICKESS: 1.25"

Title	Description
SUPERSTRUCTURE	LOOKING NORTH

Structure No: 910775	Drawn By: H.W. HICKS, JR.	Date: 6/6/2022	Filename: S000954000023.wes

Bridge Inspection Field Sketch

SR 2000

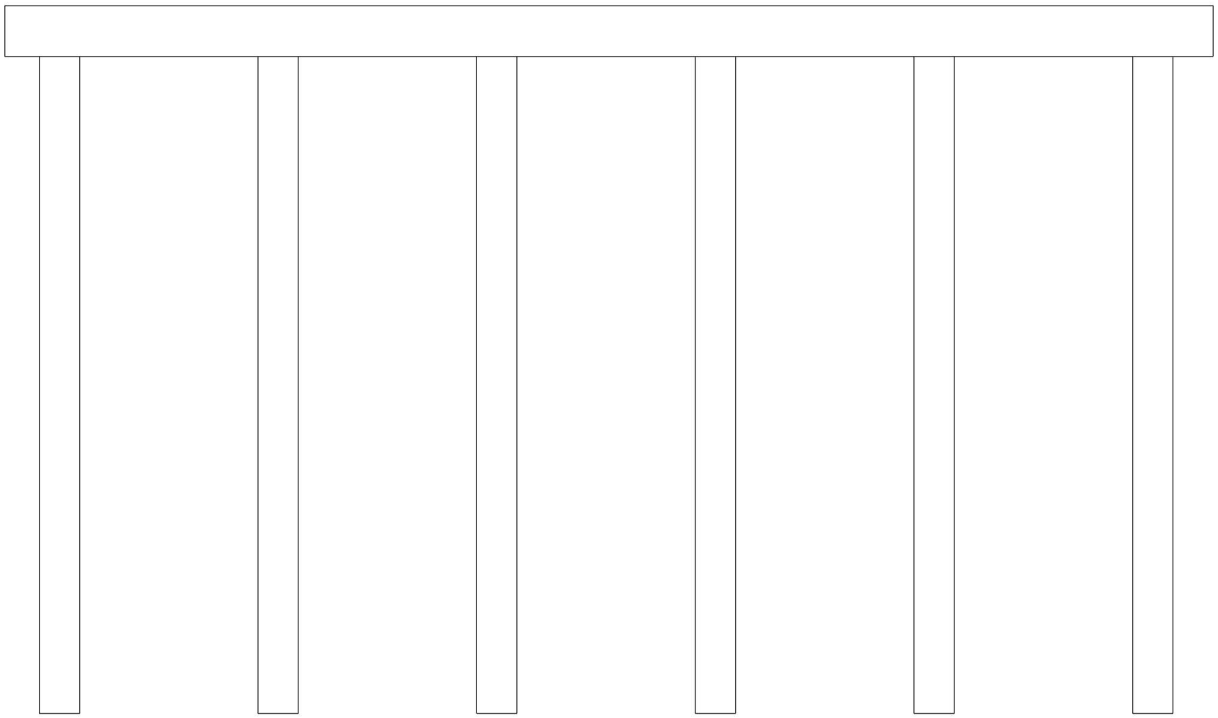
MEASUREMENTS TAKEN 25' FROM SOUTH END

Left Lanes			
Roadway	39.83ft Wide	3 Paved Lanes	South Bound
Right Shoulder	9.83ft Wide	9.83ft Paved	
Left Shoulder			
Right Guardrail	9.83ft from road		
Left Guardrail			
Median	4ft Wide	0.5ft High	
Right Lanes			
Roadway	44.67ft Wide	3 Paved Lanes	North Bound
Left Shoulder			
Right Shoulder	4.5ft Wide	4.5ft Paved	
Left Guardrail			
Right Guardrail	4.5ft from road		

Title	Description
APPROACH ROADWAY	APPROACH

Structure No: 910775	Drawn By: H.W. HICKS, JR.	Date: 6/6/2022	Filename: S000954000024.wes

Bridge Inspection Field Sketch



Caps							
#	Name	Type	Length	Width	Height	Left Beam to End of Cap	Right Beam to End of Cap
1	Cap 1	Reinforced Concrete Pier Cap	105ft	48in	53in	4.75ft	4.75ft

Piles							
#	Name	Type	Spacing	From	Height/Diam.	Width	Length
1	Pile 1	Reinforced Concrete Column	4.75ft	Left End of Bent	42in		18ft
2	Pile 2	Reinforced Concrete Column	19ft	Pile 1	42in		18ft
3	Pile 3	Reinforced Concrete Column	19ft	Pile 2	42in		18ft
4	Pile 4	Reinforced Concrete Column	19ft	Pile 3	42in		18ft
5	Pile 5	Reinforced Concrete Column	19ft	Pile 4	42in		18ft
6	Pile 6	Reinforced Concrete Column	19ft	Pile 5	42in		18ft

Title	Description
SUBSTRUCTURE	BENT 1

Structure No: 910775	Drawn By: H.W. HICKS, JR.	Date: 6/6/2022	Filename: S000954000025.wes

TERMINAL GUARDRAIL END

GUARDRAIL POST SPACING 6.25'

SOUTH APPROACH LOOKING NORTH

SOUTH APPROACH LOOKING SOUTH

GUARDRAIL POST SPACING 1.55' AT BRIDGE

GUARDRAIL CONNECTION

GUARDRAIL TRANSITION

END BENT 1 JOINT

LEFT RAIL SIMILAR RIGHT RAIL

LOOKING EAST FROM TOP

NORTH APPRAOCH LOOKING NORTH

LOOKING WEST FROM TOP

END BENT 2 JOINT

NORTH APPROACH LOOKING SOUTH

SOUTHWEST RAMP

NORTHWEST RAMP

BEAM OVER CAP AT BENT 1

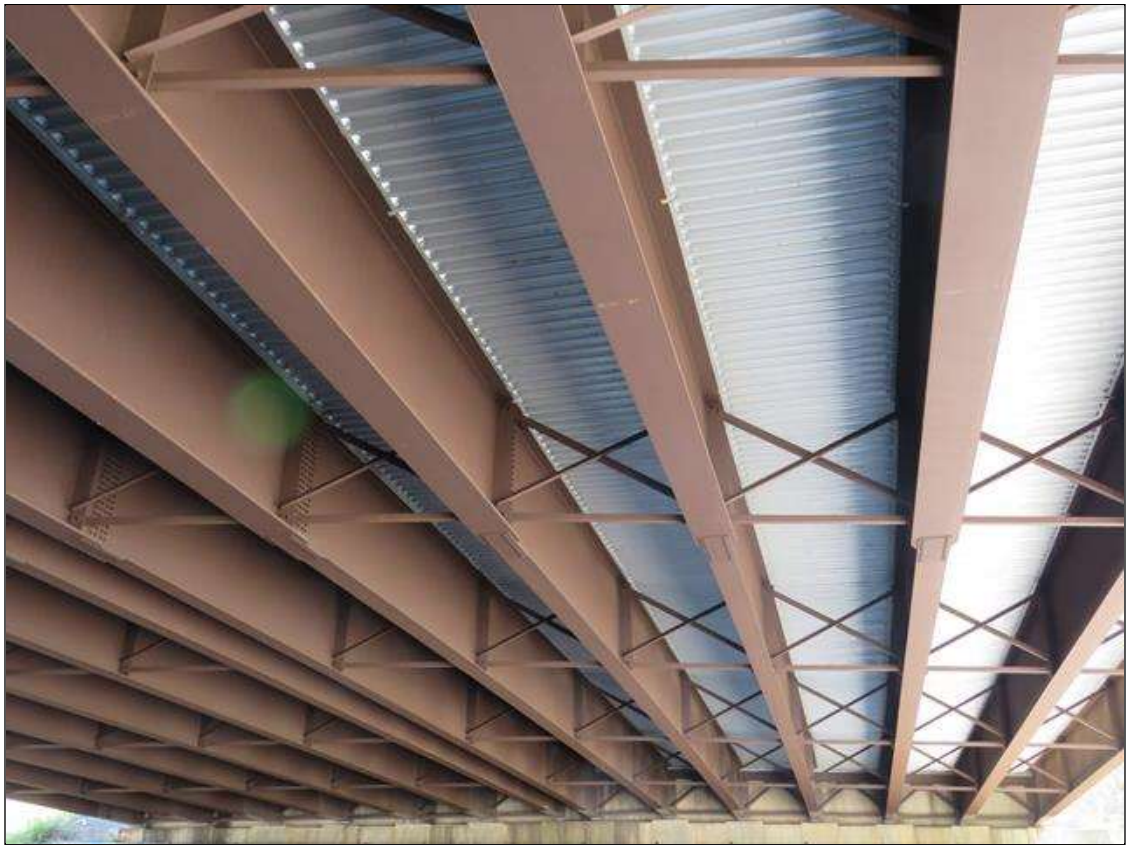
LOOKING EAST

SPAN 1 OPENING LOOKING EAST

LOOKING WEST

SPAN 2 OPENING LOOKING WEST

END BENT 2 LOOKING NORTH



SUPERSTRUCTURE SPAN 2

END BENT 1 LOOKING SOUTH

SUPERSTRUCTURE SPAN 1

TYPICAL SPLICE PLATE

UTILITY BAY 1 1.5" STEEL PIPE

BENT 1 LOOKING SOUTH

TYPICAL INTERMEDIATE BEARING