



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

COUNTY: COLUMBUS STRUCTURE NUMBER: 230383 FREQUENCY: 24 MONTHSFACILITY CARRIED: US74 & 76 WBL MILE POST: 255.6LOCATION: 1.8 MI.E. OF JCT.SR1740FEATURE INTERSECTED: FRIAR SWAMPLATITUDE: 34° 19' 20.54" LONGITUDE: 78° 28' 9.54"SUPERSTRUCTURE: PPC CORED SLABSUBSTRUCTURE: EBT&IBTS:RC CAP ON PPC PILESSPANS: 1@36';1@35';1@36'☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTIONPRESENT CONDITION: Good INSPECTION DATE: 07/12/2016POSTED SV: Not Posted POSTED TTST: Not PostedOTHER SIGNS PRESENT: NONE

LOOKING EAST , US 74/76 EAST BOUND LANE

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>

INSPECTED BY
Ray L. Kisner

SIGNATURE

Ray L. Kisner

ASSISTED BY Debra Kristensen

Structure Element Scoring

Structure Number: 230383

Inspection Date 7/12/2016

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
15	0	Prestressed Concrete Top Flange	Beam	4173	4173	0	0	0
104	0	Prestressed Concrete Closed Web/Box Girder	Beam	1391	1391	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	30	30	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	182	182	0	0	0
301	0	Pourable Joint Seal	Expansion Joints	72	72	0	0	0
310	0	Elastomeric Bearing	Bearing Device	78	78	0	0	0
515	310	Steel Protective Coating	Bearing Device	72	72	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	214	54	160	0	0
510	0	Wearing Surface	Wearing Surfaces	3852	3708	72	72	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 230383

Inspection Date: 07/12/2016

MMS Code	Element Name	Defect Name	Recommended Quantity
2816	Wearing Surface	Crack (Wearing Surface)	108 Square Feet

Element Structure Maintenance Quantities

Structure Number: **230383**

Inspection Date **07/12/2016**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Beam	3306	Maintenance Concrete Superstructure Components	0	1391	0	0	0	1391
Beam	3326	Maintenance of Concrete Deck	0	4173	0	0	0	4173
Bearing Device	3334	Bridge Bearing	0	78	0	0	0	78
Bearing Device	3342	Clean and Paint Steel	0	72	0	0	0	72
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	0	214	0	0	160	54
Caps	3348	Maintenance of Concrete Substructure	0	182	0	0	0	182
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	72	0	0	0	72
Piles and Columns	3348	Maintenance of Concrete Substructure	0	30	0	0	0	30
Wearing Surfaces	2816	Asphalt Surface Repair	108	3852	0	72	72	3708

Element Condition and Maintenance Data

Structure Number: **230383**

Inspection Date: 07/12/2016

Span 1

Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,296	1,224	36	36	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	1/8" WIDE TRANSVERSE CRACK OVER BENT 1	3	36	36	Square Feet
510	Crack (Wearing Surface)	1/16" WIDE TRANSVERSE CRACK OVER END BENT 1	2	36	36	Square Feet

General Comments

Span 1

Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	36	18	18	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING ON EXTERIOR SIDE OF RAIL	2	18	Feet

General Comments

Span 2

Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,260	1,224	0	36	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	1/8" WIDE TRANSVERSE CRACK OVER BENT 2	3	36	Square Feet

General Comments

Span 2

Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	35	0	35	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING	2	18	Feet
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING ON EXTERIOR SIDE OF RAIL	2	17	Feet

General Comments

Span 2 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	35	0	35	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING	2	35		Feet

General Comments

Span 3 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,296	1,260	36	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	1/16" WIDE TRANSVERSE CRACK OVER END BENT 2	2	36	36	Square Feet

General Comments

Span 3 Left Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	36	0	36	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING ON EXTERIOR SIDE	2	36		Feet

General Comments

Span 3 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	36	0	36	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	HAIRLINE MAP CRACKING	2	36		Feet

General Comments

Elements Verified

[illegible]

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 1	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	49
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	42
Bent 1	Saved Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Saved Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Saved Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Saved Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Saved Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Span 2	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 7	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 8	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 9	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 10	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 10	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 11	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 11	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 12	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 12	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Slab 13	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	35
Span 2	Slab 13	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	105
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	35
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	35

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1260
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Far Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Span 2	Near Bearing	Elastomeric Bearing Pad	Elastomeric Bearing	1
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	49
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	42
Bent 2	Saved Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Saved Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Saved Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Saved Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Saved Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Span 3	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36
Span 3	Slab 1	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	108
Span 3	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36
Span 3	Slab 2	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	108
Span 3	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36
Span 3	Slab 3	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	108
Span 3	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36
Span 3	Slab 4	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	108
Span 3	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36
Span 3	Slab 5	Prestressed Concrete Cored Slab	Prestressed Concrete Top Flange	108
Span 3	Slab 6	Prestressed Concrete Cored Slab	Prestressed Concrete Closed Web/Box Girder	36

Elements Verified

[illegible]

National Bridge and NC Inspection Items

Structure Number: 230383

Inspection Date: 07/12/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	7
Item 60: Substructure	0 - 9 , N	7
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	F	3852	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	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		
Estimated Remaining Life	0 - 100 Years	34		

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	N
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 230383

Inspection Date: 07/12/2016

Item	Other Equipment Used	Grade	Y	Maint Code	Qty.	0
Details	BOOTS AND SNAKE CHAPS					
Item	Deck Debris	Grade	F	Maint Code	3376	Qty. 3852
Details	DEBRIS AND VEGETATION ALONG LEFT RAIL					
	DEBRIS AND VEGETATION ALONG RIGHT RAIL					



Span 1 Left Bridge Rail: HAIRLINE MAP CRACKING ON EXTERIOR SIDE OF RAIL



Span 2 Left Bridge Rail: HAIRLINE MAP CRACKING ON EXTERIOR SIDE OF RAIL



Span 1 Wearing Surface: 1/16" WIDE TRANSVERSE CRACK OVER END BENT 1



DEBRIS AND VEGETATION ALONG LEFT RAIL



DEBRIS AND VEGETATION ALONG RIGHT RAIL



Span 1 Wearing Surface: 1/8" WIDE TRANSVERSE CRACK OVER BENT 1



Span 2 Right Bridge Rail: HAIRLINE MAP CRACKING



Span 2 Left Bridge Rail: HAIRLINE MAP CRACKING



Span 2 Wearing Surface: 1/8" WIDE TRANSVERSE CRACK OVER BENT 2



Span 3 Right Bridge Rail: HAIRLINE MAP CRACKING



Span 3 Wearing Surface: 1/16" WIDE TRANSVERSE CRACK OVER END BENT 2



Span 3 Left Bridge Rail: HAIRLINE MAP CRACKING ON EXTERIOR SIDE



GUARDRAIL END TERMINAL AT SOUTHWEST CORNER, SIMILAR AT NORTHWEST CORNER



GUARDRAIL POST SPACINGS AT MID PORTION IN SOUTHWEST CORNER, ALL CORNERS ARE SIMILAR



LOOKING EAST , US 74/76 EAST BOUND LANE



GUARDRAIL POST SPACINGS AT BRIDGE IN SOUTHWEST CORNER, ALL CORNERS ARE SIMILAR



GUARDRAIL CONNECTION AT SOUTHWEST CORNER, ALL CORNERS ARE SIMILAR



EXTERIOR GUARDRAIL CONNECTION AT SOUTHWEST CORNER, ALL CORNERS ARE SIMILAR



SOUTH PROFILE



SOUTH END OF BENT 1 CAP



NORTH PROFILE



LOOKING WEST, OFF BRIDGE



LOOKING EAST, OFF BRIDGE



UPSTREAM NORTH



DOWNSTREAM SOUTH



LOOKING WEST, EAST BOUND LANE



BENT 2, BENT 1 SIMILAR



END BENT 2, END BENT 1 SIMILAR



SUPERSTRUCTURE

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

Run Date: 11/09/2016

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	230383		SUFFICIENCY RATING =		92.51	
(8) STRUCTURE NUMBER(FEDERAL)		00000000470383		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		21000740					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3					
(3) COUNTY CODE	47	(4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED -	FRIAR SWAMP			(104)HIGHWAY SYSTEM	Is on the NHS	1	
(7) FACILITY CARRIED	US74 & 76 WBL			(26) FUNCTIONAL CLASS -	Arterial - Other	02	
(9) LOCATION	1.8 MI.E. OF JCT.SR1740			(100)STRAHNET HIGHWAY -	Non-Interstate STRAHNET Route	2	
(11)MILEPOINT		255.6		(101)PARALLEL STRUCTURE -	Left Parallel Structure	L	
(16)LAT	34° 19' 20.54"	(17)LONG	78° 28' 9.54"	(102)DIRECTION OF TRAFFIC -	1-way Traffic	1	
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	On the National Network	1	
				(20) TOLL	On Free Road	3	
				(31) MAINTAIN -	State Highway Agency	01	
				(22) OWNER -	State Highway Agency	01	
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5	
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete						
TYPE -	Slab	CODE	501				
(44) STRUCTURE TYPE APPR :							
TYPE -		CODE	000				
(45) NUMBER OF SPANS IN MAIN UNIT			3	(58) DECK		7	
(46) NUMBER OF APPROACH SPANS				(59) SUPERSTRUCTURE		7	
(107)DECK STRUCTURE TYPE -	2	CODE		(60) SUBSTRUCTURE		7	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION		7	
(A) TYPE OF WEARING SURFACE -		CODE		(62) CULVERTS		N	
(B) TYPE OF MEMBRANE	-	CODE					
(C) TYPE OF DECK PROTECTION -		CODE					
AGE AND SERVICE				LOAD RATING AND POSTING			
(27) YEAR BUILT			1988	(31) DESIGN LOAD	H 10	1	
(106)YEAR RECONSTRUCTED				(63) OPERATING RATING METHOD -	Load Factor	1	
(42) TYPE OF SERVICE : ON -	Highway			(64) OPERATING RATING -	HS-53	95	
UNDER -	Waterway	CODE	15	(65) INVENTORY RATING METHOD -	Load Factor	1	
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		0	(66) INVENTORY RATING -	HS-32	57	
(29) AVERAGE DAILY TRAFFIC			6500	(70) BRIDGE POSTING -	No Posting Required	5	
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	14%	(41) STRUCTURE OPEN, POSTED ,OR CLOSED		A	
(19) BYPASS OR DETOUR LENGTH			7 MI	DESCRIPTION -	Open, No Restriction		
GEOMETRIC DATA				APPRAISAL			
(48) LENGTH OF MAXIMUM SPAN			33 FT	(67) STRUCTURAL EVALUATION		7	
(49) STRUCTURE LENGTH			107 FT	(68) DECK GEOMETRY		4	
(50)CURB OR SIDEWALK: LEFT	0 FT RIGHT		0 FT	(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			36 FT	(71) WATERWAY ADEQUACY		7	
(52) DECK WIDTH OUT TO OUT			39 FT	(72) APPROACH ROADWAY ALIGNMENT		8	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			35 FT	(36) TRAFFIC SAFETY FEATURES		1111	
(33) BRIDGE MEDIAN -	No Median	CODE	1	(113)SCOUR CRITICAL BRIDGES		8	
(34) SKEW	0°	(35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT				
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			36 FT				
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT				
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad		0 FT				
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		000 FT				
(56) MIN LAT UNDERCLEAR LT REF -			000 FT				
NAVIGATION DATA				PROPOSED IMPROVEMENTS			
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(75) TYPE OF WORK -		CODE	
(111)PIER PROTECTION -		CODE		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(39) NAVIGATION VERTICAL CLEARANCE			0	(94) BRIDGE IMPROVEMENT COST			
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT	(95) ROADWAY IMPROVEMENT COST			
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT	(96) TOTAL PROJECT COST			
				(97) YEAR OF IMPROVEMENT COST ESTIMATE			
				(114)FUTURE ADT	13000	(115) YEAR FUTURE ADT	2025
				INSPECTIONS			
				(90) INSPECTION DATE		07/12/2016	
				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
				A) FRACTURE CRIT DETAIL -	NO	A)	
				B) UNDERWATER INSP -	NO	B)	
				C) OTHER SPECIAL INSP	NO	C)	
				SCOUR			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 11/09/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
COLUMBUS	6	3	230383	107	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
US74 & 76 WBL	FRIAR SWAMP

LOCATED :	BRIDGE NAME :	CITY :
1.8 MI.E. OF JCT.SR1740		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
02	FA	NFA	6500 2013	LT 41 RT 41

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1988	DOH	8.1430701	MAF-4-1(19)	H 10

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN.	90	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		10 FT		4		FT

SUPERSTRUCTURE :	PPC CORED SLAB
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SUBSTRUCTURE :	EBT&IBTS:RC CAP ON PPC PILES
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SPANS :	1@36';1@35';1@36'
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BEAMS OR GIRDERS :	13 LINES OF 36" PRESTRESSED CONCRETE CORED SLAB SECTIONS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
PPCCS/4" AWS		39 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
36 FT	36 FT	LT 0 FT RT 0 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		
HS-32	HS-53	7/16" CS	SV	TTST	DATE

SYSTEM :	GREEN LINE ROUTE :
Primary U.S. Route	Y

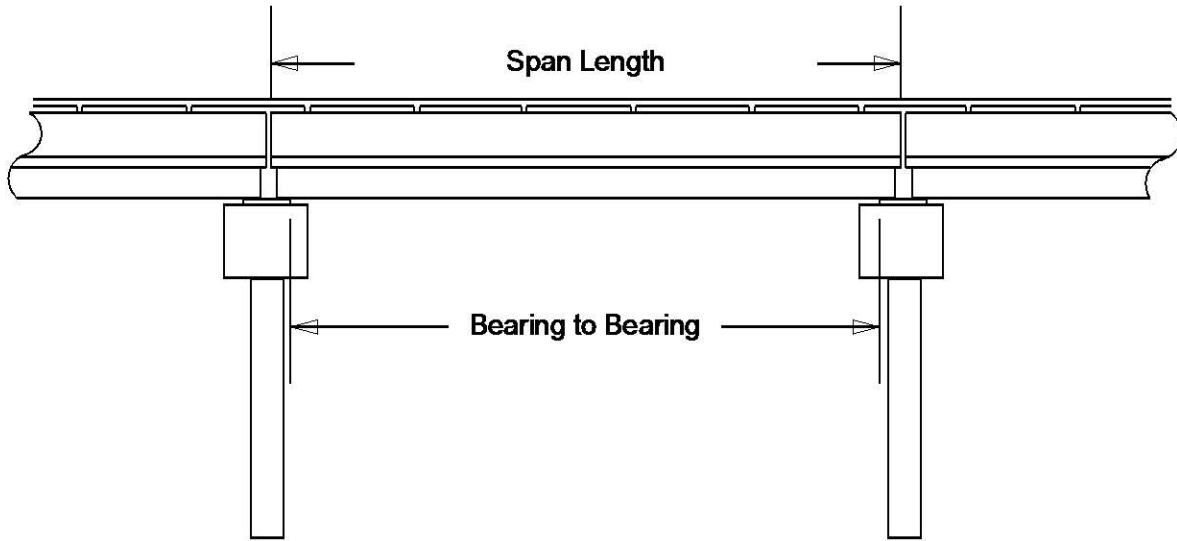
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: COLUMBUS Structure No: 230383 Date: _____ Inspected By: RLK



Span No	Span Length	Bearing to Bearing	Comments
1	36.0 FT.	33.333 FT.	NBIS 101.917 FT.
2	35.0 FT.	33.0 FT.	
3	36.0 FT.	33.333 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 230383 County: COLUMBUS Date: _____ By: RLK

Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 2 Location of Highwater Mark: OVER DECK

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.7	TOP OF RETAINING WALL			
1	4.5	Top of Cap			
2.6	5.3	TOP OF RIP RAP	2.6	5.6	TOP OF RIP RAP
12	9.4	WSWE (SOUTH)			
26	12.3				
36	12.2	BENT 1	36	14.1	BENT 1
53	13.1				
67	12.6				
70.9	12	BENT 2	70.9	13.4	BENT 2
90.7	10.5				
91.9	9.4	WSWE			
104.4	5.5	TOP OF RIP RAP	104.4	5.6	TOP OF RIP RAP
104.5	4.5	Top of Cap			
107.1	2.8	TOP OF RETAINING WALL			

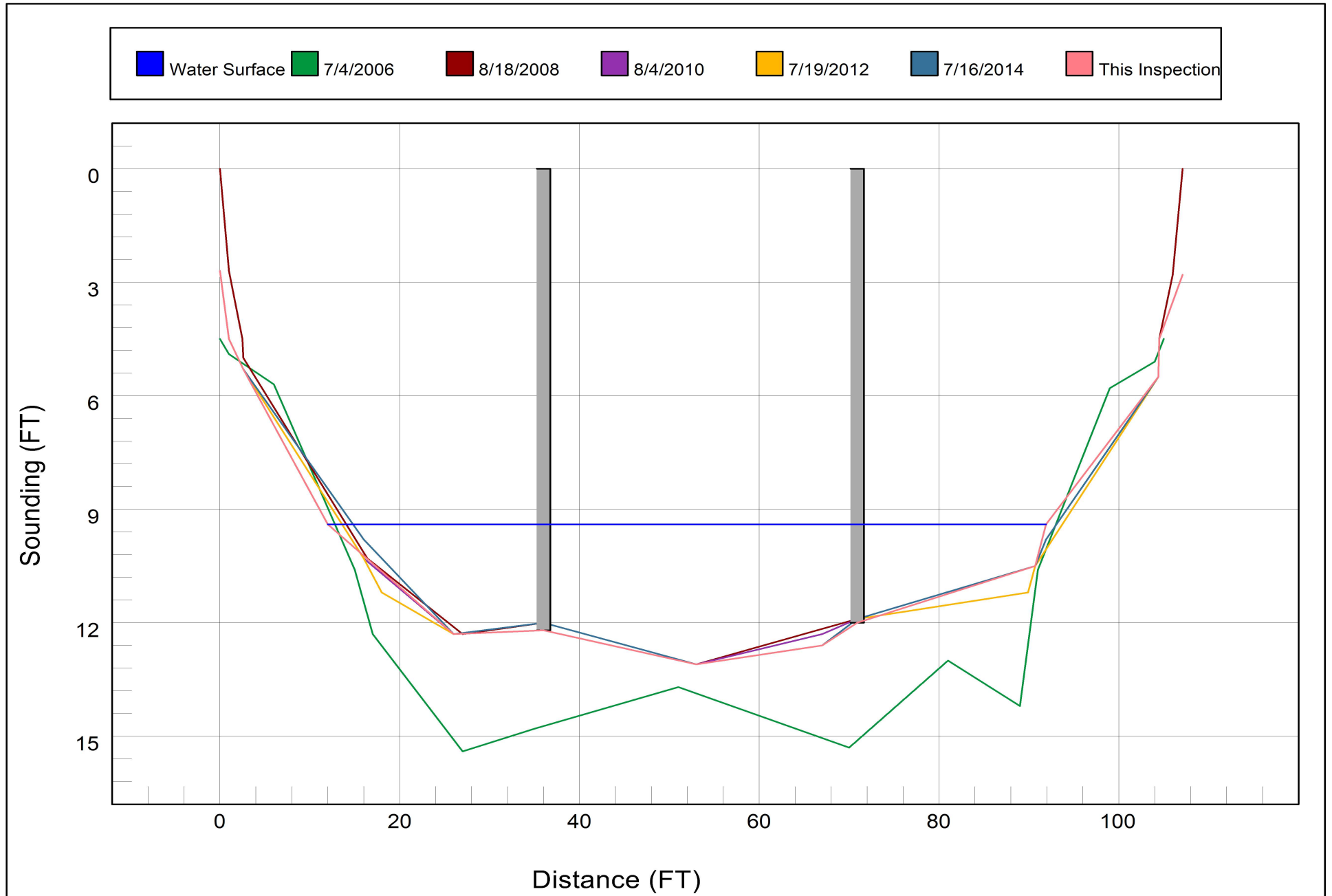
Bridge: 230383

County COLUMBUS

Date:

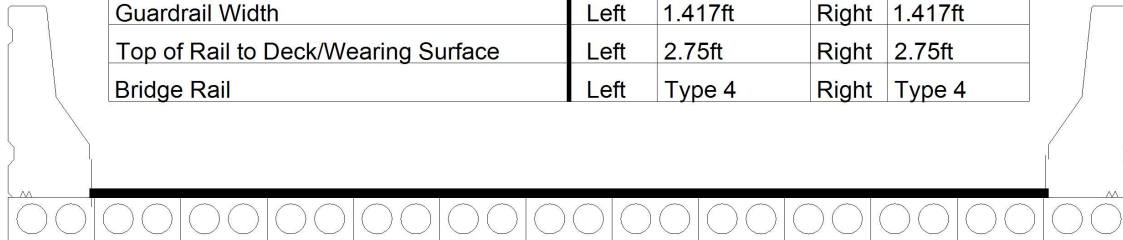
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

Deck Width/Out to Out	39ft	Between Rails			36ft
Clear Roadway	36ft	Wearing Surface			0.333ft
Median Width		Median Height			
Curb Height		Left		Right	
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	1.417ft	Right	1.417ft
Top of Rail to Deck/Wearing Surface		Left	2.75ft	Right	2.75ft
Bridge Rail		Left	Type 4	Right	Type 4



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness		Left Overhang	
Top of Rail to Bottom of Beam	4.25	Right Overhang	

Number of Slabs	Slab Width	Slab Height	Comments
13	3ft	1.5ft	

MEASUREMENTS VERIFIED BY RLK 7/12/16

Title

SUPERSTRUCTURE

Description

SIMILAR SECTION

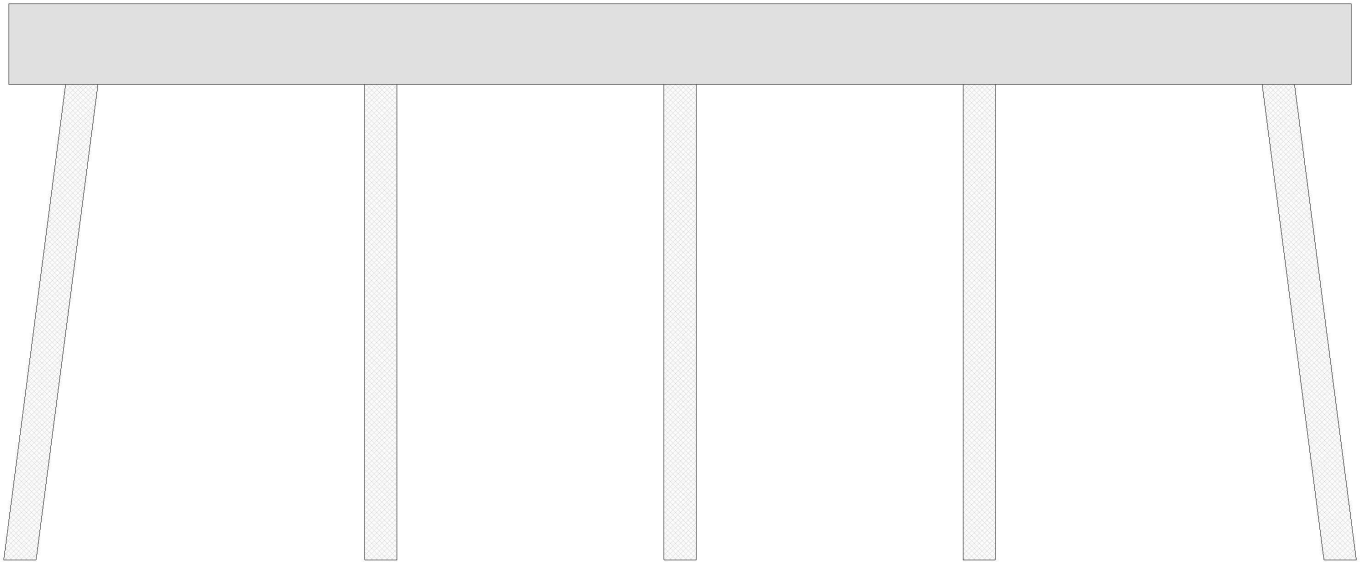
Bridge No: 230383

Drawn By: RLK

Date: 7/16/2014

File Name: S0278000138

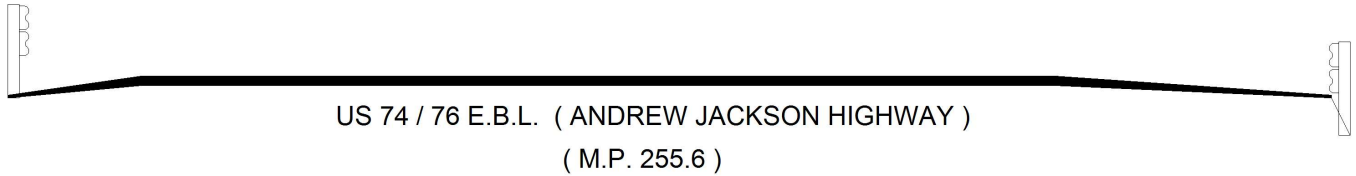
Bridge Inspection Field Sketch



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.				
41.500 ft.	4.000 ft.	2.500 ft.	2.250 ft.	2.250 ft.	1.375 ft.	1.290 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		1 ft.			Battered	No	No	No	No
2	Concrete	9.25 ft.	1 ft.			A-Frame	No	No	No	No
3	Concrete	9.25 ft.	1 ft.			A-Frame	No	No	No	No
4	Concrete	9.25 ft.	1 ft.			A-Frame	No	No	No	No
5	Concrete	9.25 ft.	1 ft.			Battered	No	No	No	No
Bent/Abutment #: 1			Similar Bents: BENT 2							

Title			Description		
SUBSTRUCTURE 1			BENT 1		
Bridge No:	230383	Drawn By:	RLK	Date:	7/12/2016
			File Name:	S0094000249	

Bridge Inspection Field Sketch



Roadway	24.396ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3.583ft Wide	3.583ft Paved	
Right Shoulder	7.917ft Wide	7.417ft Paved	0.5ft Unpaved
Left Guardrail	3.583ft from road		
Right Guardrail	7.917ft from road		

MEASUREMENTS VERIFIED BY RLK 7/12/16

Title

APPROACH ROADWAYS

Description

LOOKING EAST

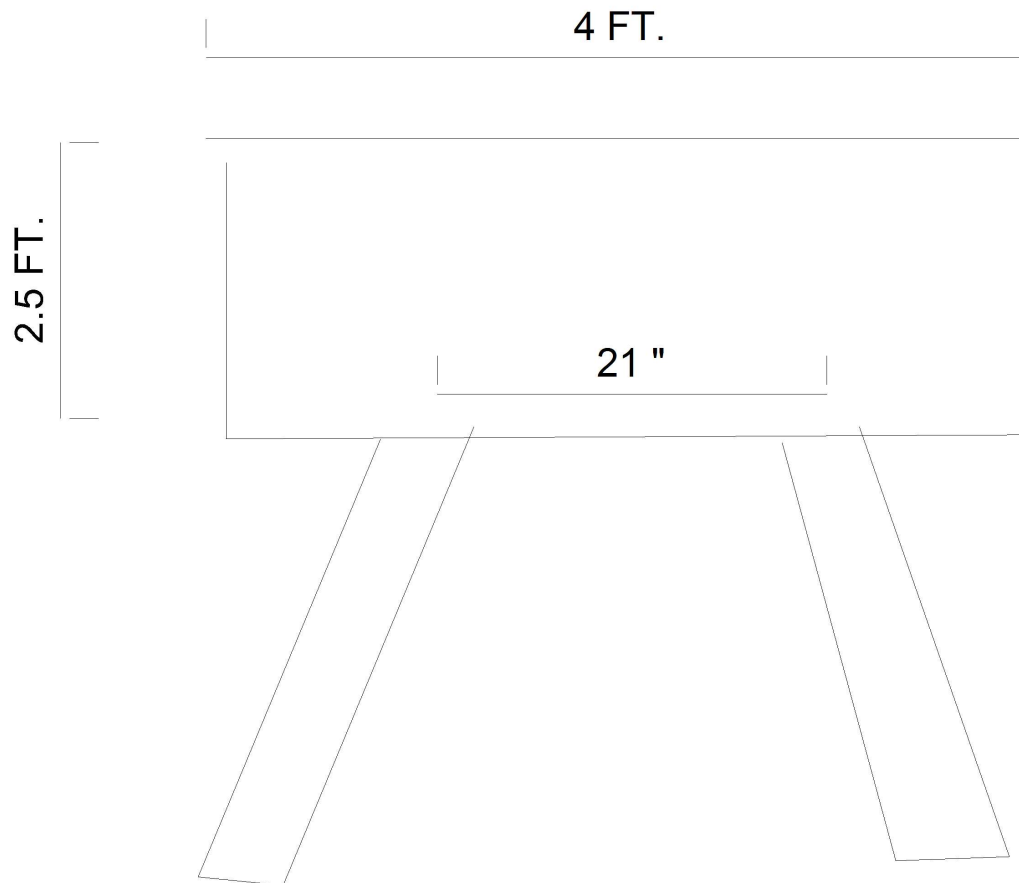
Bridge No: 230383

Drawn By: RLK

Date: 07/16/2014

File Name: S0278000192

Bridge Inspection Field Sketch

**Title**

SUBSTRUCTURE 2

Description

END VIEW BENT 1

Bridge No: 230383

Drawn By: RLK

Date: 7/12/2016

File Name: S0094000250