



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **TEMPORARY REPAIRS**

Structure Safety Report

Routine Element Inspection

COUNTY: NASH STRUCTURE NUMBER: 630062 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1109 MILE POST: _____

LOCATION: 0.1 MI E JCT SR1132

FEATURE INTERSECTED: BIG BRANCH

LATITUDE: 35° 48' 15.37" LONGITUDE: 78° 9' 16.67"

SUPERSTRUCTURE: RC FLOOR/TIMBER JOIST(STD BMD-10)

SUBSTRUCTURE: E.BTS&INT.BT:TIM CAPS/TIMBER POST & CONC.SILLS@7'CTS.

SPANS: 1@18'9";1@17'

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 04/19/2016

POSTED SV: 15 POSTED TTST: 23

OTHER SIGNS PRESENT: 4 DELINEATORS



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

LOOKING EAST

INSPECTED BY Vernon Hicks	SIGNATURE 	ASSISTED BY PDC
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BRIDGE INSPECTION RECORD AND SUMMARY FOR SHORED STRUCTURES OR STRUCTURES WITH TEMPORARY REPAIRS MADE TO KEEP A BRIDGE OPEN

BRIDGE: **630062** County **Nash** DATE: **9/1/2014**

THE FOLLOWING S. I. & A ITEMS ARE TO BE CODED TO REFLECT THE FACT THAT THE STRUCTURE IS SHORED OR HAS HAD TEMPORARY REPAIRS MADE TO KEEP THE BRIDGE OPEN :

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	T	TSE
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	3	TSE
S I & A ITEM 64 OPERATING RATING		
HS		BY:
S I & A ITEM 66 - INVENTORY RATING		
HS		BY:

9/2/14

COMMENTS

Piles 1 & 3 @ E. Bent 1 have been supplemented. Piles 4 & 5 @ E. Bent 1 have been encased with concrete.

Temporary Repair

Span Element Report

Structure Number: 630062

Inspection Date: 04/19/2016

Span Number 1

Span Length 18.75 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	485	484	1	0	0	1	3326
111		Timber Open Girder/Beam	342	342	0	0	0	0	3304
216		Timber Abutment	40	40	0	0	0	0	3346
228		Timber Pile	5	5	0	0	0	0	3344
235		Timber Pier Cap	32	32	0	0	0	0	3344
331		Reinforced Concrete Bridge Railing	38	38	0	0	0	0	3318
510		Wearing Surface	455	455	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2

Span Length 17 Feet

Number of Beams/Girders: 19

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	440	440	0	0	0	0	3326
111		Timber Open Girder/Beam	323	323	0	0	0	0	3304
216		Timber Abutment	40	40	0	0	0	0	3346
228		Timber Pile	10	10	0	0	0	0	3344
235		Timber Pier Cap	32	32	0	0	0	0	3344
331		Reinforced Concrete Bridge Railing	34	34	0	0	0	0	3318
510		Wearing Surface	413	413	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantities

Structure Number: 630062
Span Number 1

Inspection Date: 04/19/2016

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
<input checked="" type="checkbox"/> Deck	1	12	Reinforced Concrete Deck	485	484	1	0	0	1	3326	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	1	331	Reinforced Concrete Bridge Railing	19	19	0	0	0	0	3318	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	2	331	Reinforced Concrete Bridge Railing	19	19	0	0	0	0	3318	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Wearing Surfaces		510	Wearing Surface	455	455	0	0	0	0	2816	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	1	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	2	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	3	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	4	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	5	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	6	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	7	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	8	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	9	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	10	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	11	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	12	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	13	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	14	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	15	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	16	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	17	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	18	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	19	111	Timber Open Girder/Beam	18	18	0	0	0	0	3304	<input type="checkbox"/> Requested

Structure Number: 630062
Span Number 2

Inspection Date: 04/19/2016

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
<input checked="" type="checkbox"/> Deck	1	12	Reinforced Concrete Deck	440	440	0	0	0	0	3326	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	1	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Bridge Rail	2	331	Reinforced Concrete Bridge Railing	17	17	0	0	0	0	3318	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Wearing Surfaces		510	Wearing Surface	413	413	0	0	0	0	2816	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	1	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	2	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	3	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	4	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	5	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	6	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	7	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	8	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	9	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	10	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	11	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	12	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	13	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	14	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	15	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	16	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	17	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	18	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Beam	19	111	Timber Open Girder/Beam	17	17	0	0	0	0	3304	<input type="checkbox"/> Requested

Superstructure Element Defect Descriptions

Structure Number: 630062

Inspection Date: 04/19/2016

Span Number 1

Span 1	Deck	1	Component Name:	Reinforced Concrete Deck					
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Element: 12	Name Reinforced Concrete Deck	Qty: 485	Lvl 2: 1	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	1
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Defect Description:

1 Square Feet of Delamination/Spall: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. SPALL IN BOTTOM OF DECK OVER INTERIOR BENT 1 BAY 18.

Span 1	Beam	1	Component Name:	Timber Joist					
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Element: 111	Name Timber Open Girder/Beam	Qty: 18	Lvl 2: 0	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	0
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Defect Description:

NEW PRESSURE TREATED TIMBER REPLACEMENT JOIST

Span 1	Beam	18	Component Name:	Timber Joist					
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Element: 111	Name Timber Open Girder/Beam	Qty: 18	Lvl 2: 0	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	0
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Defect Description:

NEW PRESSURE TREATED TIMBER REPLACEMENT JOIST

Span 1	Beam	19	Component Name:	Timber Joist					
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Element: 111	Name Timber Open Girder/Beam	Qty: 18	Lvl 2: 0	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	0
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Defect Description:

NEW PRESSURE TREATED TIMBER REPLACEMENT JOIST

Span Number 2

Span 2	Beam	1	Component Name:	Timber Joist					
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Element: 111	Name Timber Open Girder/Beam	Qty: 17	Lvl 2: 0	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	0
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Defect Description:

NEW PRESSURE TREATED TIMBER REPLACEMENT JOIST

Span 2	Beam	19	Component Name:	Timber Joist					
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Element: 111	Name Timber Open Girder/Beam	Qty: 17	Lvl 2: 0	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 0	0
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Defect Description:

NEW PRESSURE TREATED TIMBER REPLACEMENT JOIST

Substructure Detailed Element Quantities

Structure Number: 630062
End Bent 1

Inspection Date: 04/19/2016

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	16	16	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Caps	2	235	Timber Pier Cap	16	16	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Abutments	1	216	Timber Abutment	40	40	0	0	0	0	3346	<input type="checkbox"/> Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
<input checked="" type="checkbox"/> Caps	1	235	Timber Pier Cap	16	16	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Caps	2	235	Timber Pier Cap	16	16	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested

Structure Number: 630062

Inspection Date: 04/19/2016

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
<input checked="" type="checkbox"/> Abutments	1	216	Timber Abutment	40	40	0	0	0	0	3346	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	1	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	2	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	3	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	4	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested
<input checked="" type="checkbox"/> Piles and Columns	5	228	Timber Pile	1	1	0	0	0	0	3344	<input type="checkbox"/> Requested

Substructure Element Defect Descriptions

Structure Number: 630062

Inspection Date: 04/19/2016

National Bridge and NC Inspection Items

Structure Number: 630062

Inspection Date: 04/19/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , 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	72	3376
Drainage System	G, F, P, or C	F	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	0	3352
Scour	G, F, P, or C	F		
Wingwall	G, F, P, or C	P	100	3350
Field Scour Evaluation		U		
Drift	G, F, P, or C	F	2	3366
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		
Estimated Remaining Life	0 - 100 Years	10		

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	4
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Y

National Bridge and NC SMU Inspection Item Details

Structure Number: 630062

Inspection Date: 04/19/2016

Item	Superstructure - Item 59	Grade 6	Maint Code	Qty. 0
Details	JOIST ARE IN OVERALL UPPER FAIR TO GOOD CONDITION IN BOTH SPANS. PM REPAIRS ARE COMPLETED.			
Item	Substructure - Item 60	Grade 5	Maint Code	Qty. 0
Details	SUBSTRUCTURE IS IN FAIR CONDITION . RANDOM SURFACE SOFTNESS AND DELAMINATION IN CAPS AND PILES . REPAIR PILES AT END BENTS 1 AND 2. CROSSBRACING REPAIRED.			
Item	Presently Posted	Grade Y	Maint Code	Qty. 0
Details	SV 15 TTST 23 TONS			
Item	Other Equipment Used	Grade Y	Maint Code	Qty. 0
Details	TYPICAL INSPECTION EQUIPMENT			
Item	Deck Debris	Grade F	Maint Code 3376	Qty. 72
Details	VEGETATION AND DIRT ALONG CURBS RESTRICT WATER RUNOFF TO DRAINS			
Item	Drainage System	Grade F	Maint Code 3332	Qty. 0
Details	VEGETATION AND DIRT ALONG CURBS RESTRICT WATER RUNOFF TO DRAINS. SEE DECK DEBRIS.			
Item	Slope Protection	Grade F	Maint Code 3352	Qty. 0
Details	UNPROTECTED SLOPES			
Item	Drift	Grade F	Maint Code 3366	Qty. 2
Details	DRIFT ON THE NORTH SIDE OF INTERIOR BENT 1.			
Item	Scour	Grade F	Maint Code	Qty. 0
Details	2 FT. DEEP BED SCOUR AT THE FACE ON END BENT 2 FOOTING			
Item	Wingwalls	Grade P	Maint Code 3350	Qty. 100
Details	WINGWALLS IN POOR CONDITION . DECAYED WINGWALL PILES AND BOARDS WITH EXPOSED FILL AT END BENT 1 AND 2.			



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER END BENT 1



DIRT AND DEBRIS AND VEGETATION ALONG RIGHT SIDE WHEELGUARD (LEFT SIDE SIMILAR)



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER INTERIOR BENT 1



TRANSVERSE CRACK IN ASPHALT WEARING SURFACE OVER END BENT 2



Span 1 Deck: 1 Square Feet of Delamination/Spall: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter.
SPALL IN BOTTOM OF DECK OVER INTERIOR BENT 1 BAY 18.



DRIFT AROUND BASE OF INTERIOR BENT 1



DECAY IN WINGWALL PILES @ SOUTH WEST CORNER WINGWALL WITH VEGETATION IN TOPS



DECAY IN WINGWALL PILES @ NORTH EAST CORNER WINGWALL WITH VEGETATION IN TOPS



LOOKING EAST



POSTING SIGN



ASPHALT WEARING SURFACE TOP OF DECK SPAN 1



LOOKING SOUTH DOWNSTREAM



LOOKING NORTH UPSTREAM



ASPHALT WEARING SURFACE TOP OF DECK SPAN 2



LOOKING WEST



END BENT 1



REPLACED JOIST 18 AND 19 SPAN 1 (JOIST 19 IN SPAN 2)



INTERIOR BENT 1



SUPERSTRUCTURE OVER INTERIOR BENT 1 RIGHT SIDE



SUPERSTRUCTURE SPAN 1



END BENT 2



SUPERSTRUCTURE SPAN 2



REPLACED CROSS BRACING @ INTERIOR BENT 1 SPAN 1 SIDE



REPLACED JOIST 1 IN SPAN 1 AND SPAN 2



NORTH SIDE LOOKING DOWNSTREAM PHOTO 1 OF 2



NORTH SIDE LOOKING DOWNSTREAM PHOTO 2 OF 2



SOUTH SIDE LOOKING UPSTREAM

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	630062		SUFFICIENCY RATING =			22.01
(8) STRUCTURE NUMBER(FEDERAL)		000000001270062		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31011090					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(3) COUNTY CODE 127	(4) PLACE CODE		0	(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - BIG BRANCH				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED SR1109				(26) FUNCTIONAL CLASS -	Minor Collector		08
(9) LOCATION 0.1 MI. E. JCT. SR1132				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT			0	(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 35° 48' 15.37"	(17)LONG	78° 9' 16.67"		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	Temporary Structure/Conditions		T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0
				(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: Wood or Timber				(58) DECK			5
TYPE - Stringer Mutlibeam or Girder	CODE	702		(59) SUPERSTRUCTURE			6
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			3
TYPE -	CODE	000		(61) CHANNEL & CHANNEL PROTECTION			6
(45) NUMBER OF SPANS IN MAIN UNIT		2		(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS							
(107)DECK STRUCTURE TYPE - 1	CODE			LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	Unknown		0
(A) TYPE OF WEARING SURFACE -	CODE			(63) OPERATING RATING METHOD -	Allowable Stress		2
(B) TYPE OF MEMBRANE -	CODE			(64) OPERATING RATING -	HS-1		1
(C) TYPE OF DECK PROTECTION -	CODE			(65) INVENTORY RATING METHOD -	Allowable Stress		2
				(66) INVENTORY RATING -	HS-1		1
				(70) BRIDGE POSTING -	Posting Required		0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
				DESCRIPTION -	Posted for Load		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT		1949		(67) STRUCTURAL EVALUATION			3
(106)YEAR RECONSTRUCTED				(68) DECK GEOMETRY			4
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ			N
UNDER - Waterway	CODE	15		(71) WATERWAY ADEQUACY			7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0		(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC		970		(36) TRAFFIC SAFETY FEATURES			0000
(30) YEAR OF ADT 2011	(109) TRUCK ADT PCT	6%		(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH		2 MI		PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -			CODE
(48) LENGTH OF MAXIMUM SPAN		19 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH		36 FT		(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT .7915 FT RIGHT .7915 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.25 FT		(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT		25.583 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		(114)FUTURE ADT 1940		(115) YEAR FUTURE ADT	2025
(33) BRIDGE MEDIAN - No Median	CODE	0		INSPECTIONS			
(34) SKEW 30°	(35) STRUCTURE FLARED		0	(90) INSPECTION DATE			04/19/2016
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.25 FT		A) FRACTURE CRIT DETAIL -	NO	A)	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		B) UNDERWATER INSP -	NO	B)	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		C) OTHER SPECIAL INSP	NO	C)	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT					
NAVIGATION DATA							
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0					
(111)PIER PROTECTION -	CODE						
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT						
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 09/27/2016

COUNTY : NASH DIVISION : 4 DISTRICT : 2 STRUCTURE NUMBER : 630062 LENGTH : 36 FEET

ROUTE CARRIED : SR1109 FEATURE INTERSECTED : BIG BRANCH

LOCATED : 0.1 MI. E. JCT. SR1132 BRIDGE NAME : CITY :

FUNC. CLASS : 08 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 970 2011 RAIL TYPE : LT 241 RT 241

BUILT : 1949 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 120 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 11 FT WATER DEPTH : 2 FT

SUPERSTRUCTURE : RCDECK/TIMBER JOIST(STD BMD-10)

SUBSTRUCTURE : E.BTS&INT.BT:TIM CAPS/TIMBER POST & CONC.SILLS@7' CTS.

SPANS : 1@18'9;1@17'

BEAMS OR GIRDERS : 19LINES 6X12 TIMBER JOIST @ VAR.CTS.

FLOOR : 5" RC/ 2" AWS ENCROACHMENT : DECK (OUT TO OUT) : 25.583 FT

CLEAR ROADWAY : 24.25 FT BETWEEN RAILS : 25.833 FT SIDEWALK OR CURB : LT .7915 FT RT .7915 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : ext.joist(A) POSTED : SV 15 TTST 23 DATE 09/04/2014

SYSTEM : Secondary S.R. Route GREEN LINE ROUTE : N

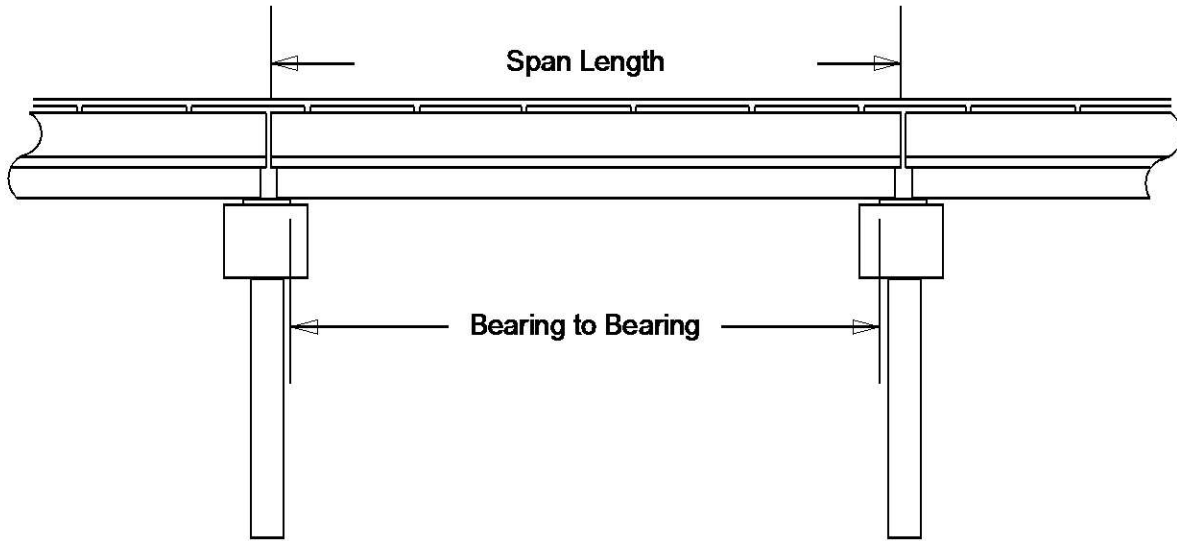
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: NASH Structure No: 630062 Date: _____ Inspected By: VMH



Span No	Span Length	Bearing to Bearing	Comments
1	18.75 FT.		NBIS BRIDGE LENGTH - 33 FT.
2	17 FT.		

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 630062 County: NASH Date: _____ By: VMH

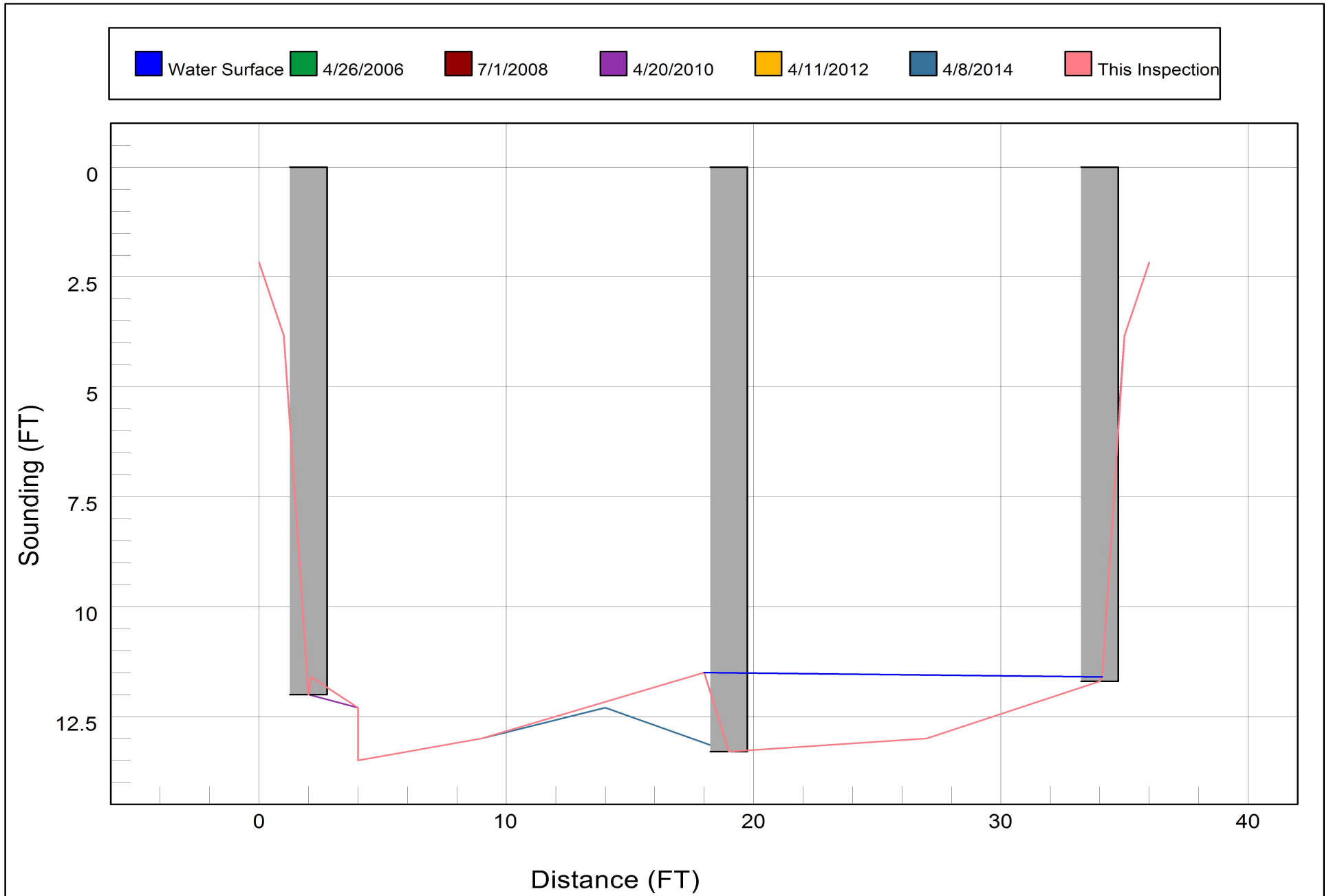
Record sounding from top of rail. Other location if needed: TOP OF RAIL

Distance from Highwater Mark to top of rail: 7 Location of Highwater Mark: SUBSTRUCTURE

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.167	TOP OF RAIL			
1	3.833	Top of Cap			
2	12	END BENT 1	2	11	END BENT 1
2.1	11.6				
4	12.3				
4	13.5				
9	13				
18	11.5	Water Surface/Water Edge (WSWE)			
19	13.3	BENT 1	19	13.8	BENT 1
27	13				
34	11.7	END BENT 2	34	13.8	END BENT 2
34.1	11.6	Water Surface/Water Edge (WSWE)			
35	3.833	Top of Cap			
36	2.167	TOP OF RAIL			

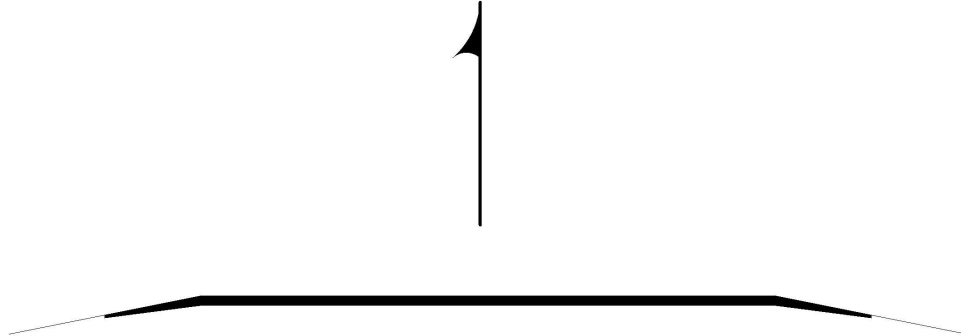
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

East

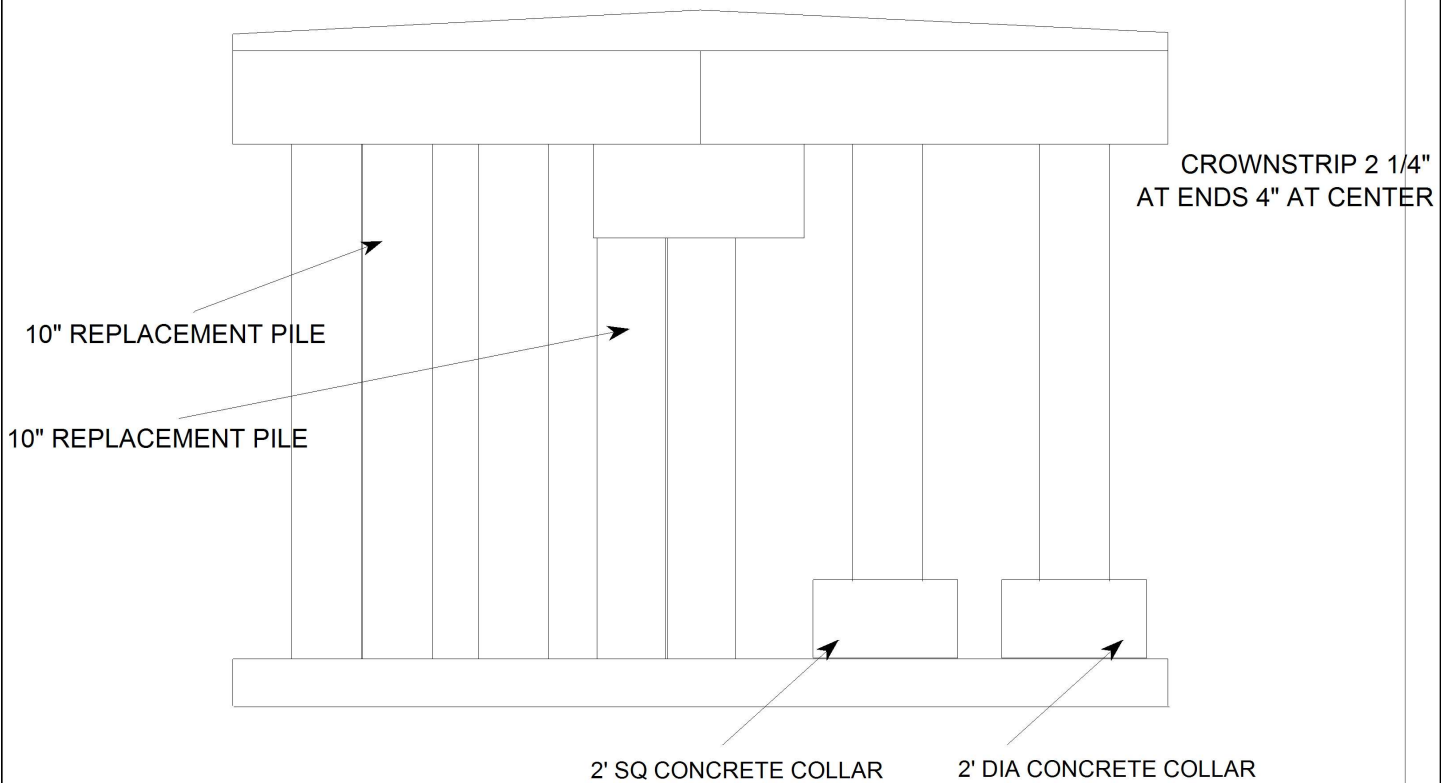


Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

VMH - 4/19/16

Title APPROACH ROADWAY		Description APPROACH ROADWAY	
Bridge No: 630062	Drawn By: VMH	Date: 07/01/2008	File Name: S0026002182

Bridge Inspection Field Sketch

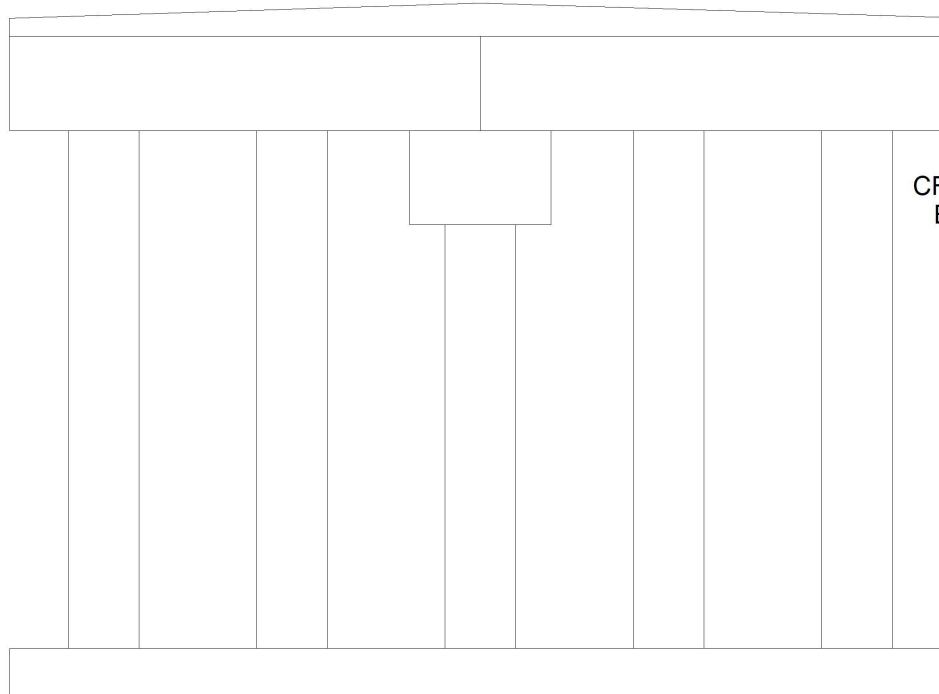


Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	30.5ft Long	1.0ft Wide	.958ft High
Left Overhang	1.25ft	Lt Cap/Beam Overhang	.75ft
Right Overhang	1.25ft	Rt Cap/Beam Overhang	.75ft
Timber Sub Cap			
Size	3ft Long	1.0ft Wide	.833ft High
Left pile to splice	0ft		
Left Overhang	1.5ft		
Right Overhang	1.5ft		
Sill - Sill			
Sill Size	SIZE UNKNOWN - NOT ACCESSIBLE		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	7.0		12" DIA		Vertical
2	Wood or Timber	Post and Sills	7.0		12" DIA		Vertical
3	Wood or Timber	Post and Sills	7.0		12" DIA		Vertical
4	Wood or Timber	Post and Sills	7.0		11" DIA		Vertical
5	Wood or Timber	Post and Sills			11" DIA		Vertical

Title END BENT 1	Description END BENT 1	VMH - 4/19/16
Bridge No: 630062	Drawn By: VMH	Date: 07/01/2008
		File Name: S0026002184

Bridge Inspection Field Sketch



CROWNSTRIP 2 1/4" AT
ENDS 4" AT CENTER

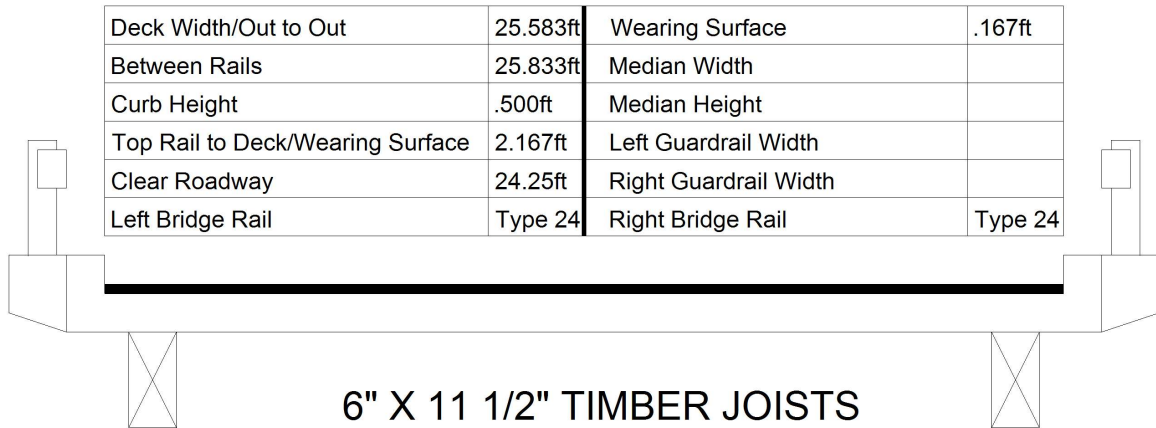
Bent #	1	Bent 1, End Bent 2 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	30.5ft Long	1.0ft Wide	.958ft High
Left Overhang	1.25ft	Lt Cap/Beam Overhang	.75ft
Right Overhang	1.25ft	Rt Cap/Beam Overhang	.75ft
Timber Sub Cap			
Size	3ft Long	1.0ft Wide	.833ft High
Left pile to splice	0ft		
Left Overhang	1.5ft		
Right Overhang	1.5ft		
Sill - Sill			
Sill Size	SIZE UNKNOWN - NOT ACCESSIBLE		

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	7.0		13" DIA		Vertical
2	Wood or Timber	Post and Sills	7.0		13" DIA		Vertical
3	Wood or Timber	Post and Sills	7.0		14" DIA		Vertical
4	Wood or Timber	Post and Sills	7.0		12" DIA		Vertical
5	Wood or Timber	Post and Sills			12" DIA		Vertical

	PILE # 1	PILE # 2	PILE # 3	PILE # 4	PILE # 5
END BENT 2	11" DIA	10" DIA	10" DIA	10" DIA	11" DIA

Title	Description	
BENT 1	BENT 1	VMH - 4/19/16
Bridge No: 630062	Drawn By: VMH	Date: 07/01/2008 File Name: S0026002185

Bridge Inspection Field Sketch



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	.417	Left Overhang	.439
Top of Rail to Bottom of Beam	3.833	Right Overhang	.439

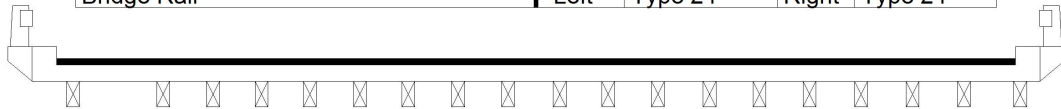
Beam No	Beam Type	Spacing	Comments
1	Timber (Rectangular)	1.459ft	6 in. x 11 1/2 in. TIMBER PRESSURE TREATED
2	Timber (Rectangular)	1.375ft	6 in. x 11 1/2 in. TIMBER
3	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
4	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in. TIMBER
5	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
6	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in. TIMBER
7	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
8	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
9	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
10	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
11	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
12	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
13	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
14	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
15	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
16	Timber (Rectangular)	1.292ft	6 in. x 11 1/2 in. TIMBER
17	Timber (Rectangular)	1.333ft	6 in. x 11 1/2 in. TIMBER
18	Timber (Rectangular)	2.000ft	6 in. x 11 1/2 in. TIMBER PRESSURE TREATED
19	Timber (Rectangular)		6 in. x 11 1/2 in. TIMBER PRESSURE TREATED

Joist 1, 18 and 19 are repair/ replacements.

Title TYPICAL SECTION	Description TYPICAL SECTION VMH - 4/19/16
Bridge No: 630062	Drawn By: VMH
Date: 07/01/2008	File Name: S0026002183

Bridge Inspection Field Sketch

Deck Width/Out to Out	25.583ft	Between Rails	25.833ft
Clear Roadway	24.5ft	Wearing Surface	0.167ft
Median Width		Median Height	
Curb Height		Left	0.5ft
		Right	0.5ft
Sidewalk Width		Left	
		Right	
Clear Roadway (Rail to Median)		Left	
		Right	
Guardrail Width		Left	
		Right	
Top of Rail to Deck/Wearing Surface		Left	2.167ft
		Right	2.167ft
Bridge Rail		Left	Type 24
		Right	Type 24



Measurements for Span #	2		
Deck Thickness	0.417	Left Overhang	0.439
Top of Rail to Bottom of Beam	3.833	Right Overhang	0.439

Beam Number	Beam Type	Spacing	Comments
1	Timber (Rectangular)	2.4ft	PRESSURE TREATED 6" X 11 1/2"
2	Timber (Rectangular)	1.333ft	6" X 11 1/2"
3	Timber (Rectangular)	1.292ft	6" X 11 1/2"
4	Timber (Rectangular)	1.292ft	6" X 11 1/2"
5	Timber (Rectangular)	1.333ft	6" X 11 1/2"
6	Timber (Rectangular)	1.292ft	6" X 11 1/2"
7	Timber (Rectangular)	1.333ft	6" X 11 1/2"
8	Timber (Rectangular)	1.333ft	6" X 11 1/2"
9	Timber (Rectangular)	1.375ft	6" X 11 1/2"
10	Timber (Rectangular)	1.292ft	6" X 11 1/2"
11	Timber (Rectangular)	1.333ft	6" X 11 1/2"
12	Timber (Rectangular)	1.375ft	6" X 11 1/2"
13	Timber (Rectangular)	1.333ft	6" X 11 1/2"
14	Timber (Rectangular)	1.333ft	6" X 11 1/2"
15	Timber (Rectangular)	1.375ft	6" X 11 1/2"
16	Timber (Rectangular)	1.375ft	6" X 11 1/2"
17	Timber (Rectangular)	1.375ft	6" X 11 1/2"
18	Timber (Rectangular)	1.5ft	6" X 11 1/2"
19	Timber (Rectangular)	ft	PRESSURE TREATED 6" X 11 1/2"

Joist 1 and 19 are repair / replacements.

Title TYPICAL SECTION SPAN 2	Description TYPICAL SECTION SPAN 2 VMH - 4/19/16
Bridge No: 630062	Drawn By: VMH
Date: 4/10/2014	File Name: S0022001798