



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE: JOISTS, WINGWALL,
DATA CHANGED, TEMPORARY REPAIRS

Structure Safety Report

Routine Element Inspection

COUNTY: MITCHELL STRUCTURE NUMBER: 600207 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1106 MILE POST:

LOCATION: .1 MI.N.JCT.SR1269

FEATURE INTERSECTED: GRASSY CREEK

LATITUDE: 35° 51' 32.19" LONGITUDE: 82° 4' 31.39"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE: E.BTS:TIM.CAPS/TIM.POST&SILLS/CONC.FTGS.

SPANS: 1 @ 18.25'
1 @ 18'-3

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

PRESENT CONDITION: Fair INSPECTION DATE: 12/13/2017

POSTED SV: 10 POSTED TTST: 18

OTHER SIGNS PRESENT: DELINEATORS (4)



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

SOUTH APPROACH LOOKING NORTH

INSPECTED BY JOSEPH HUNTSINGER	SIGNATURE <i>Joseph Huntsinger</i>	ASSISTED BY DENNIS WILSON
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Structure Element Scoring

Structure Number: 600207

Inspection Date 12/13/201
7

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
31	0	Timber Deck	Deck	369	0	329	40	0
111	0	Timber Open Girder/Beam	Beam	209	0	159	19	31
216	0	Timber Abutment	Abutments	62	0	62	0	0
228	0	Timber Pile	Piles and Columns	9	9	0	0	0
235	0	Timber Pier Cap	Caps	44	44	0	0	0
320	0	Prestressed Concrete Approach Slab	Approaches	160	160	0	0	0
332	0	Timber Bridge Railing	Bridge Rail	38	37	0	1	0
510	0	Wearing Surface	Wearing Surfaces	292	292	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 600207

Inspection Date: 12/13/2017

MMS Code	Element Name	Defect Name	Recommended Quantity
3324	Timber Deck	Decay/Section Loss	40 Square Feet
3304	Timber Open Girder/Beam	Split/Delamination (Timber)	50 Feet
3316	Timber Bridge Railing	Decay/Section Loss	1 Feet

Element Structure Maintenance Quantities

Structure Number: 600207

Inspection Date 12/13/2017

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	0	62	0	0	62	0
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	0	160	0	0	0	160
Beam	3304	Maintenance of Timber of Superstructure Components	50	209	31	19	159	0
Bridge Rail	3316	Maintenance of Timber Bridge Rail	1	38	0	1	0	37
Caps	3344	Maintenance To Timber Substrcutre	0	44	0	0	0	44
Deck	3324	Maintenance of Timber Deck Components	40	369	0	40	329	0
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	9	0	0	0	9
Wearing Surfaces	2816	Asphalt Surface Repair	0	292	0	0	0	292

Element Condition and Maintenance Data

Structure Number: 600207

Inspection Date: 12/13/2017

Span 1 Deck

Timber Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
31	Timber Deck	369	0	329	40	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
31	Decay/Section Loss	DECAY IN THE ENDS OF THE FLOORING UP TO 3" DEEP.	3	40	40	Square Feet
31	Decay/Section Loss	FUNGUS STAINING AND SOFT THROUGHOUT THE UNDERSIDE.	2	329		Square Feet

General Comments

Span 1 Beam 1

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	0	0	19	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Split/Delamination (Timber)	MULTIPLE SPLITS / DELAMINATIONS UP TO 4' LONG AND BETWEEN 4" - 6" FROM THE TOP OF THE JOISTS. WATER IS EMANATING FROM THE SPLITS AND WAS FROZEN AT THE TIME OF INSPECTION. JOIST IS SAGGING 0.75" AT MIDSPAN. A PRIORITY MAINTENANCE IS REQUESTED.	4	19	19	Feet

General Comments

Span 1 Beam 2

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	16	0	3	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Split/Delamination (Timber)	2.5' LONG X 5" HIGH DELAMINATION IN THE TOP OF THE JOIST, RIGHT FACE AT 5.5' FROM THE NEAR END. DELAMINATED AREA IS BULGING OUT 0.75". A PRIORITY MAINTENANCE IS REQUESTED.	4	3	3	Feet
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	16		Feet

General Comments

Span 1 Beam 3

Timber Joist

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	10	0	9	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Split/Delamination (Timber)	9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.	4	9	9	Feet

Structure Number: **600207**Inspection Date: **12/13/2017**

111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	10	Feet
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General Comments**Span 1****Beam 4****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments**Span 1****Beam 5****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments**Span 1****Beam 6****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments**Span 1****Beam 7****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments

Span 1**Beam 8****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments

Span 1**Beam 9****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments

Span 1**Beam 10****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	19	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Decay/Section Loss	DELAMINATED ALONG THE TOP OF THE JOIST. FUNGUS STAINED AND SOFT OVER THE END BENT CAPS.	2	19		Feet

General Comments

Span 1**Beam 11****Timber Joist**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
111	Timber Open Girder/Beam	19	0	0	19	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
111	Split/Delamination (Timber)	DELAMINATED ALONG THE TOP 4" OF THE JOIST. MULTIPLE SPLITS / CRACKS UP TO 3' LONG THROUGHOUT THE JOIST.	3	19	19	Feet

General Comments

Span 1 Right Bridge Rail**Timber Rail**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
332	Timber Bridge Railing	19	18	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
332	Decay/Section Loss	POST BLOCK W HAS 2" HIGH X 2" WIDE X 2" DEEP DECAY.	3	1	1 Feet
General Comments					

End Bent 1 Abutment**Timber Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
216	Timber Abutment	31	0	31	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
216	Decay/Section Loss	TIMBERS ARE SOFT WITH AREAS OF DECAY UP TO 0.125" DEEP.	2	31	Feet
General Comments					

End Bent 2 Abutment**Timber Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
216	Timber Abutment	31	0	31	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
216	Decay/Section Loss	TIMBERS SOFT WITH AREAS OF DECAY UP TO 0.125" DEEP.	2	31	Feet
General Comments					

Approach 1 Prestressed Concrete Approach Slab 1**Prestressed Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
320	Prestressed Concrete Approach Slab	80	80	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
General Comments					
		NO APPROACH SLAB VISIBLE.			

Approach 2 Prestressed Concrete Approach Slab 2**Prestressed Concrete Approach Slab**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
320	Prestressed Concrete Approach Slab	80	80	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 600207

Inspection Date: 12/13/2017

General Comments

NO APPROACH SLAB VISIBLE.

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	369
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 10	Timber Joist	Timber Open Girder/Beam	19
Span 1	Beam 11	Timber Joist	Timber Open Girder/Beam	19
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	19
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	19
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	292
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	18
End Bent 1	Cap 2	Timber Pier Cap	Steel Protective Coating	392
End Bent 1	Cap 2	Timber Pier Cap	Timber Pier Cap	4
End Bent 1	Pile 1	Timber Pile	Timber Pile	1
End Bent 1	Pile 2	Timber Pile	Timber Pile	1
End Bent 1	Pile 3	Timber Pile	Timber Pile	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Timber Pile	1
End Bent 1	Pile 5	Timber Pile	Steel Protective Coating	320
End Bent 1	Abutment	Timber Abutment	Timber Abutment	31
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	22
End Bent 2	Pile 1	Timber Pile	Timber Pile	1
End Bent 2	Pile 2	Timber Pile	Timber Pile	1
End Bent 2	Pile 3	Timber Pile	Timber Pile	1
End Bent 2	Pile 4	Timber Pile	Timber Pile	1
End Bent 2	Abutment	Timber Abutment	Timber Abutment	31

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 600207

Inspection Date: 12/13/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	F	125	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	8		
Superstructure Paint Code				

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	Y
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 600207

Inspection Date: 12/13/2017

Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
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Details WINGWALL, JOISTS

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV-10, TTST-18

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	125
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Details NORTH EAST WINGWALL: TIMBERS ARE SOFT WITH AREAS OF DECAY UP TO 0.5" DEEP. 3' WIDE X 1' LONG COMPLETE DECAY AT THE TOP END OF THE WALL.
SOUTH EAST WINGWALL: TIMBERS ARE SATURATED AND SOFT, WITH MULTIPLE AREAS OF 0.5" DEEP DECAY. THE SOUTH WEST WINGWALL IS SIMILAR.
NORTH WEST WINGWALL: TIMBERS ARE SATURATED AND SOFT WITH DECAY UP TO 0.5" DEEP THROUGHOUT. 8' LONG X 3' HIGH COMPLETE DECAY AT 6' FROM THE BOTTOM OF THE WALL. A PRIORITY MAINTENANCE IS REQUESTED.



ELECTRIC FENCE ATTACHED TO DOWNSTREAM END OF THE BRIDGE.



Span 1 Right Bridge Rail: POST BLOCK W HAS 2" HIGH X 2" WIDE X 2" DEEP DECAY.



Span 1 Beam 1: MULTIPLE SPLITS / DELAMINATIONS UP TO 4' LONG AND BETWEEN 4" - 6" FROM THE TOP OF THE JOISTS. WATER IS EMANATING FROM THE SPLITS AND WAS FROZEN AT THE TIME OF INSPECTION. JOIST IS SAGGING 0.75" AT MIDSPAN. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 1: MULTIPLE SPLITS / DELAMINATIONS UP TO 4' LONG AND BETWEEN 4" - 6" FROM THE TOP OF THE JOISTS. WATER IS EMANATING FROM THE SPLITS AND WAS FROZEN AT THE TIME OF INSPECTION. JOIST IS SAGGING 0.75" AT MIDSPAN. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 2: 2.5' LONG X 5" HIGH DELAMINATION IN THE TOP OF THE JOIST, RIGHT FACE AT 5.5' FROM THE NEAR END. DELAMINATED AREA IS BULGING OUT 0.75". A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 3: 9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 3: 9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Beam 3: 9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.



NORTH EAST WINGWALL: TIMBERS ARE SOFT WITH AREAS OF DECAY UP TO 0.5" DEEP. 3' WIDE X 1' LONG
COMPLETE DECAY AT THE TOP END OF THE WALL.



TEMPORARY REPAIR MADE TO END BENT 1.



NORTH WEST WINGWALL: TIMBERS ARE SATURATED AND SOFT WITH DECAY UP TO 0.5" DEEP THROUGHOUT. 8' LONG X 3' HIGH COMPLETE DECAY AT 6' FROM THE BOTTOM OF THE WALL. A PRIORITY MAINTENANCE IS REQUESTED.



Span 1 Deck: DECAY IN THE ENDS OF THE FLOORING UP TO 3" DEEP.



NORTH APPROACH LOOKING SOUTH



WEIGHT LIMIT SIGN



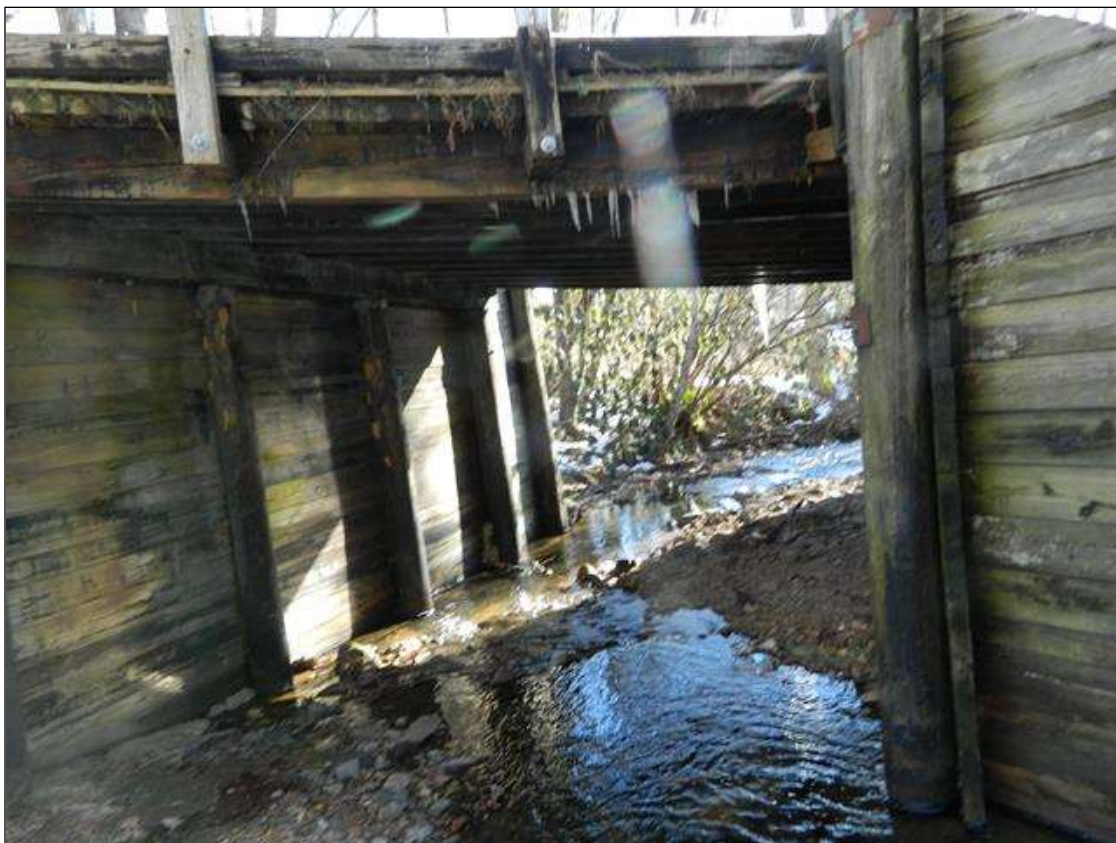
LOOKING UPSTREAM



LOOKING DOWNSTREAM



SOUTH APPROACH LOOKING NORTH



UPSTREAM PROFILE



END BENT 2



END BENT 1



DECK UNDERSIDE



DOWNSTREAM PROFILE



SOUTH EAST WINGWALL: TIMBERS ARE SATURATED AND SOFT, WITH MULTIPLE AREAS OF 0.5" DEEP DECAY. THE SOUTH WEST WINGWALL IS SIMILAR.

Stream Bed Soundings

(Profile diagram on following sheet)

County **MITCHELL**

Structure Number: **600207**

Inspection Date **12/13/2017**

Sounding recorded from: **Top of Bridge Rail**

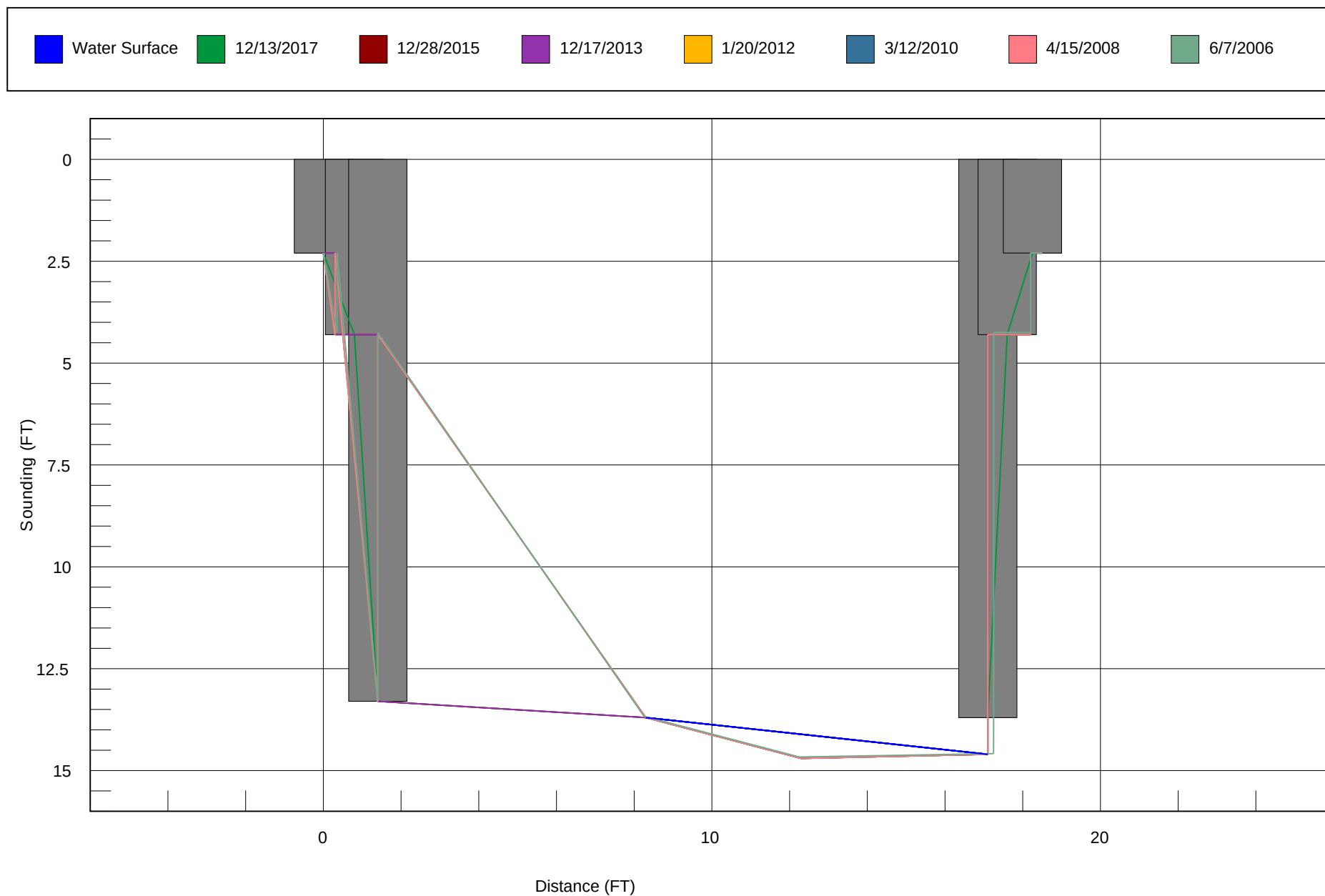
Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.300	0.000	FF END BENT 1
0.800	4.300	0.000	TOP OF CAP END BENT 1
1.400	13.300	13.500	SF END BENT 1
8.300	13.700	0.000	WSWE
12.300	14.700	0.000	THALWEG
17.099	14.600	0.000	WSWE
17.100	13.700	13.600	SF END BENT 2
17.600	4.300	0.000	TOP OF CAP END BENT 2
18.250	2.300	0.000	FF END BENT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)



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

Run Date: 08/13/2018

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	600207	SUFFICIENCY RATING =		65.11
(8) STRUCTURE NUMBER(FEDERAL)	000000001210207	STATUS =		Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31011060				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1				
(3) COUNTY CODE 121	(4) PLACE CODE	0			
(6) FEATURE INTERSECTED - GRASSY CREEK					
(7) FACILITY CARRIED SR1106					
(9) LOCATION .1 MI.N.JCT.SR1269					
(11)MILEPOINT	0				
(16)LAT 35° 51' 32.19"	(17)LONG 82° 4' 31.39"				
(98)BORDER BRIDGE STATE CODE	PCT SHARE				
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN: Wood or Timber			(112)NBIS BRIDGE SYSTEM -	NO	
TYPE - Stringer Mutlibeam or Girder	CODE	702	(104)HIGHWAY SYSTEM Is not on NHS	0	
(44) STRUCTURE TYPE APPR :			(26) FUNCTIONAL CLASS - Local	09	
TYPE -	CODE	000	(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0	
(45) NUMBER OF SPANS IN MAIN UNIT	2	(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(46) NUMBER OF APPROACH SPANS			(102)DIRECTION OF TRAFFIC - 2-way Traffic	2	
(107)DECK STRUCTURE TYPE - 8	CODE		(103)TEMPORARY STRUCTURE -		
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(110)DESIGNATED NATIONAL NETWORK - Not on the National Network	0	
(A) TYPE OF WEARING SURFACE -	CODE		(20) TOLL On Free Road	3	
(B) TYPE OF MEMBRANE -	CODE		(31) MAINTAIN - State Highway Agency	01	
(C) TYPE OF DECK PROTECTION -	CODE		(22) OWNER - State Highway Agency	01	
			(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
				CONDITION	
(58) DECK			5		
(59) SUPERSTRUCTURE			5		
(60) SUBSTRUCTURE			6		
(61) CHANNEL & CHANNEL PROTECTION			7		
(62) CULVERTS			N		
				LOAD RATING AND POSTING	
(31) DESIGN LOAD Unknown			0		
(63) OPERATING RATING METHOD - Allowable Stress			2		
(64) OPERATING RATING - HS-36			65		
(65) INVENTORY RATING METHOD - Allowable Stress			2		
(66) INVENTORY RATING - HS-27			48		
(70) BRIDGE POSTING - No Posting Required			5		
(41) STRUCTURE OPEN, POSTED ,OR CLOSED			A		
DESCRIPTION - Open, No Restriction					
				APPRAISAL	
(67) STRUCTURAL EVALUATION			5		
(68) DECK GEOMETRY			2		
(69) UNDERCLEARANCES,VERTI & HORIZ			N		
(71) WATERWAY ADEQUACY			7		
(72) APPROACH ROADWAY ALIGNMENT			8		
(36) TRAFFIC SAFETY FEATURES			0000		
(113)SCOUR CRITICAL BRIDGES			U		
				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 3000	(115) YEAR FUTURE ADT	2025			
				INSPECTIONS	
(90) INSPECTION DATE			12/13/2017		
(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					
AGE AND SERVICE					
(27) YEAR BUILT	1960				
(106)YEAR RECONSTRUCTED					
(42) TYPE OF SERVICE : ON - Highway					
UNDER - Waterway	CODE	15			
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0				
(29) AVERAGE DAILY TRAFFIC	1500				
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT	6%			
(19) BYPASS OR DETOUR LENGTH	5 MI				
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN	9 FT				
(49) STRUCTURE LENGTH	18 FT				
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT					
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	19.167 FT				
(52) DECK WIDTH OUT TO OUT	20.167 FT				
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	17 FT				
(33) BRIDGE MEDIAN - No Median	CODE	0			
(34) SKEW 30°	(35) STRUCTURE FLARED	0			
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT				
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	19.167 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					
(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: 08/13/2018

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
MITCHELL	13	1	600207	18	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1106	GRASSY CREEK

LOCATED :	BRIDGE NAME :	CITY :
.1 MI.N.JCT.SR1269		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	1500 2012	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1960	BMU			Unknown

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		12 FT		1		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON TIMBER JOISTS
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SUBSTRUCTURE :	E.BTS:TIM.CAPS/TIM.POST&SILLS/CONC.FTGS.; CRUTCH BTS:TIM.POST&SILLS
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SPANS :	1 @ 9'- 1/8", 1 @ 9'- 1/8"
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BEAMS OR GIRDERS :	8 LINES 6X12 TIMBER JOISTS & 3 DOUBLE LINES @ 1'-9.5 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/5.47 AWS		20.167 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.167 FT	19.833 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :		DATE
HS-27	HS-36	Int.jsts	SV	TTST	07/19/2018

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 600207

County MITCHELL

Date: 12/13/2017

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3304	Maintain/Replace Timber Superstructure Components	LF	19	Span 1 Beam 1: MULTIPLE SPLITS / DELAMINATIONS UP TO 4' LONG AND BETWEEN 4" - 6" FROM THE TOP OF THE JOISTS. WATER IS EMANATING FROM THE SPLITS AND WAS FROZEN AT THE TIME OF INSPECTION. JOIST IS SAGGING 0.75" AT MIDSPAN. A PRIORITY MAINTENANCE IS REQUESTED.	
 3304	Maintain/Replace Timber Superstructure Components	LF	3	Span 1 Beam 2: 2.5' LONG X 5" HIGH DELAMINATION IN THE TOP OF THE JOIST, RIGHT FACE AT 5.5' FROM THE NEAR END. DELAMINATED AREA IS BULGING OUT 0.75". A PRIORITY MAINTENANCE IS REQUESTED.	
 3304	Maintain/Replace Timber Superstructure Components	LF	9	Span 1 Beam 3: 9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.	
 3346	Repair / Maintain Timber Wings & Blkhds	SF	24	NORTH WEST WINGWALL: TIMBERS ARE SATURATED AND SOFT WITH DECAY UP TO 0.5" DEEP THROUGHOUT. 8' LONG X 3' HIGH COMPLETE DECAY AT 6' FROM THE BOTTOM OF THE WALL. A PRIORITY MAINTENANCE IS REQUESTED.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 600207

County MITCHELL

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

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	19 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
12/13/2017	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 1: MULTIPLE SPLITS / DELAMINATIONS UP TO 4' LONG AND BETWEEN 4" - 6" FROM THE TOP OF THE JOISTS. WATER IS EMANATING FROM THE SPLITS AND WAS FROZEN AT THE TIME OF INSPECTION. JOIST IS SAGGING 0.75" AT MIDSPAN. A PRIORITY MAINTENANCE IS REQUESTED.		

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	3 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
12/13/2017	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 2: 2.5' LONG X 5" HIGH DELAMINATION IN THE TOP OF THE JOIST, RIGHT FACE AT 5.5' FROM THE NEAR END. DELAMINATED AREA IS BULGING OUT 0.75". A PRIORITY MAINTENANCE IS REQUESTED.		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 600207

County MITCHELL

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

MMS Code	MMS Description	Quantity
3304	Maintain/Replace Timber Superstructure Components	9 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
12/13/2017	JOSEPH HUNTSINGER	
Details		
Span 1 Beam 3: 9' LONG X 5" HIGH DELAMINATED AREA AT THE TOP OF THE JOIST, BOTH FACES, BEGINNING AT THE NEAR END OF THE JOIST. THE DELAMINATED AREA IS CRUSHING / BULGING OUT UP TO 1". A PRIORITY MAINTENANCE IS REQUESTED.		

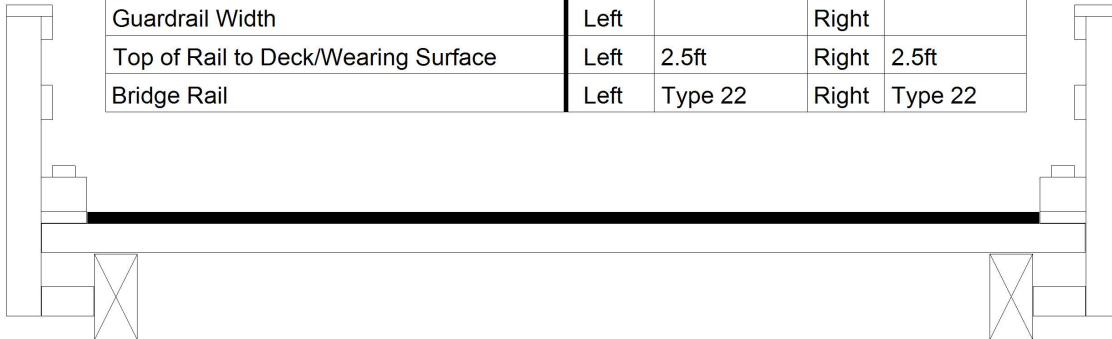
MMS Code	MMS Description	Quantity
3346	Repair / Maintain Timber Wings & Blkhds	24 SF
Location:		
Abutment Substructure	Bent/Span No. 2	WINGWALL
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
12/13/2017	JOSEPH HUNTSINGER	DENNIS WILSON
Details		
NORTH WEST WINGWALL: TIMBERS ARE SATURATED AND SOFT WITH DECAY UP TO 0.5" DEEP THROUGHOUT. 8' LONG X 3' HIGH COMPLETE DECAY AT 6' FROM THE BOTTOM OF THE WALL. A PRIORITY MAINTENANCE IS REQUESTED.		



NORTH WEST WINGWALL: TIMBERS ARE SATURATED AND SOFT WITH DECAY UP TO 0.5" DEEP THROUGHOUT. 8' LONG X 3' HIGH COMPLETE DECAY AT 6' FROM THE BOTTOM OF T

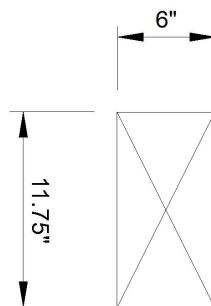
Bridge Inspection Field Sketch

Deck Width/Out to Out	20.167ft	Between Rails				19.833ft
Clear Roadway	19.167ft	Wearing Surface				0.456ft
Median Width		Median Height				
Curb Height		Left	0.25ft	Right	0.25ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.5ft	Right	2.5ft	
Bridge Rail		Left	Type 22	Right	Type 22	



Measurements for Span #	1		
Deck Thickness	0.313	Left Overhang	1.125
Top of Rail to Bottom of Beam	4.25	Right Overhang	1.125

Beam Number	Beam Type	Spacing
1 thru 11	Timber (Rectangular)	1.792ft



JOIST DIMENSIONS

12/13/17 - J.C.HUNTSINGER

Title

Typical Section

Description

Data Worksheet

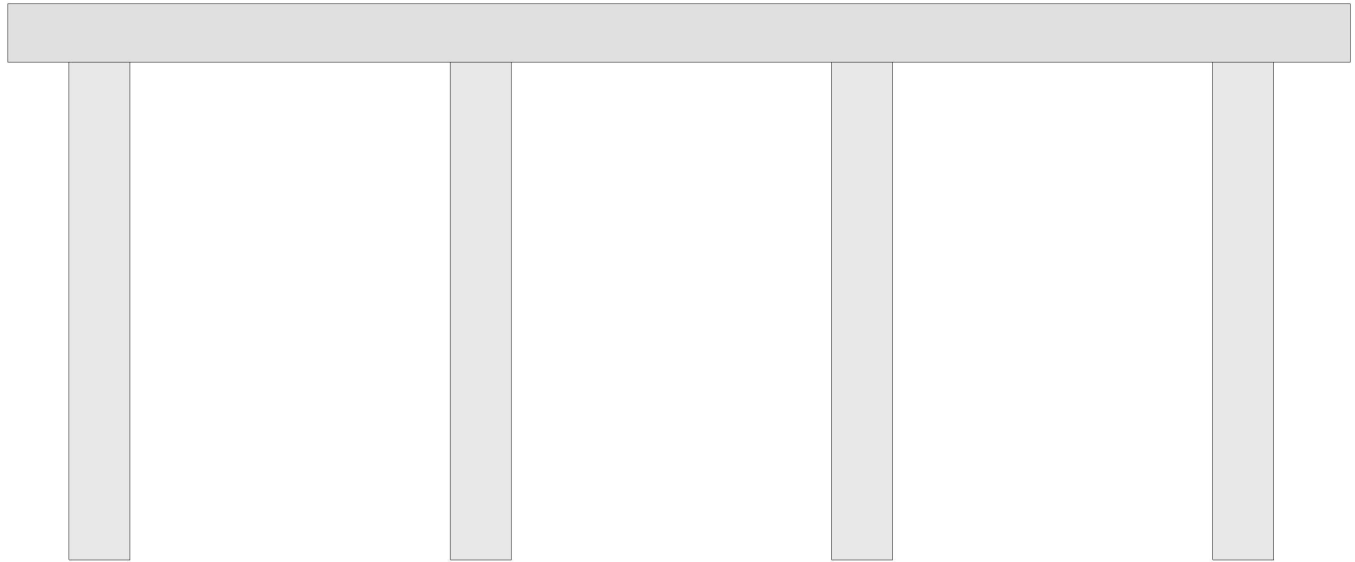
Bridge No: 600207

Drawn By: Roy W. Shook

Date: 04/15/2008

File Name: S0102000110

Bridge Inspection Field Sketch



Sills Not Visible

Cap Information			Material Timber			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
22.000 ft.	.795 ft.	.957 ft.	1.500 ft.	1.500 ft.	.608 ft.	.608 ft.

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	6.250 ft.	1.000 ft.		*8'-1" (9'-6")	Vertical	No	No	No	No
2	Timber	6.250 ft.	1.000 ft.		*8'-1" (9'-6")	Vertical	No	No	No	No
3	Timber	6.250 ft.	1.000 ft.		*8'-1" (9'-6")	Vertical	No	No	No	No
4	Timber	6.250 ft.	1.000 ft.		*8'-1" (9'-6")	Vertical	No	No	No	No

*ABUT 1 (ABUT 2)

Bent/Abutment #: 2	Similar Bents: None
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12/13/17 - J.C.HUNTSINGER

Title			Description		
END BENT 2			Data Worksheet		
Bridge No: 600207	Drawn By: Roy W. Shook			Date: 04/15/2008	File Name: S0102000111

Bridge Inspection Field Sketch

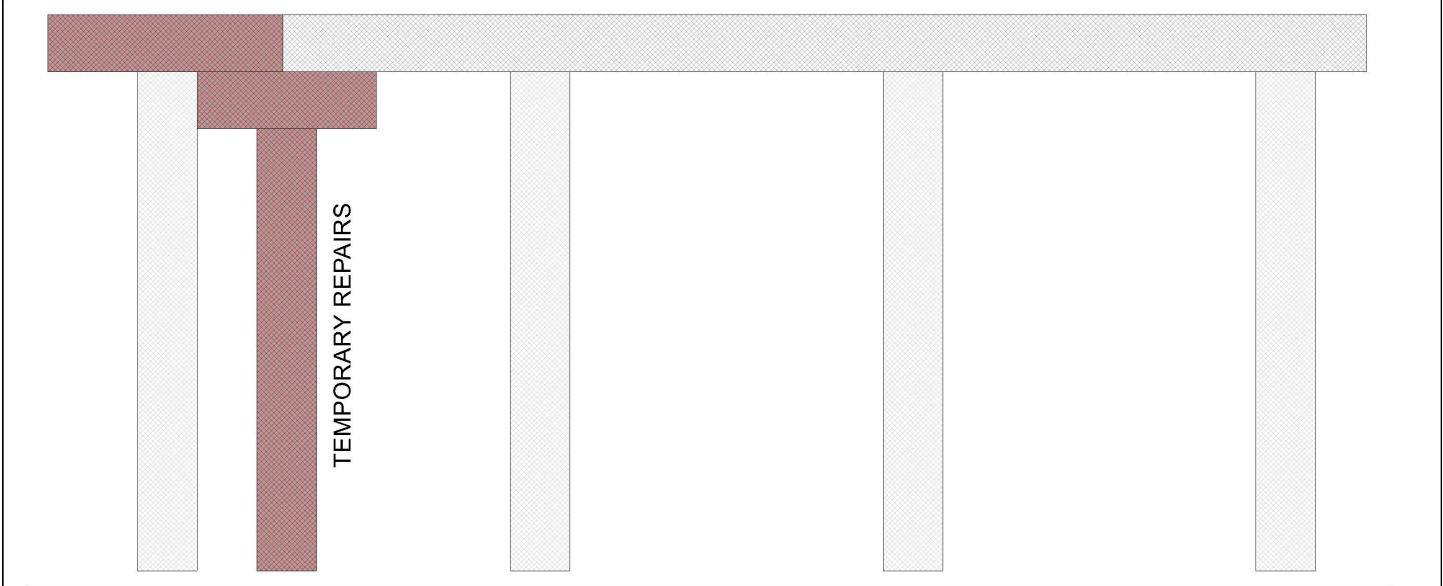
50' NORTH OF BRIDGE

Roadway	16ft Wide	2 Paved Lanes	Looking South
Left Shoulder	0.5ft Wide	0.5ft Paved	
Right Shoulder	0.5ft Wide	0.5ft Paved	
Left Guardrail			
Right Guardrail			

REDRAWN 12/13/17 - J.C.HUNTSINGER

Title		Description	
Approach Roadway		Data Worksheet	
Bridge No: 600207	Drawn By: Roy W. Shook	Date: 04/15/2008	File Name: S0102000109

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.			Right Beam to End of Cap.		
22.500 ft.	.795 ft.	.957 ft.	2.000 ft.	1.500 ft.	1.108 ft.			.608 ft.		
Subcap Information			Material Timber							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
3.000 ft.	.795 ft.	.957 ft.	1.500 ft.	1.500 ft.	2 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	2 ft.	1 ft.		8.167 ft.	Vertical	No	No	No	No
2	Timber	4.25 ft.	1 ft.	1 ft.	8.167 ft.	Vertical	No	No	No	No
3	Timber	6.25 ft.	1 ft.		8.167 ft.	Vertical	No	No	No	No
4	Timber	6.25 ft.	1 ft.		8.167 ft.	Vertical	No	No	No	No
5	Timber		1 ft.		8.167 ft.	Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents:										

Title END BENT 1		Description TEMPORARY REPAIRS	
Bridge No: 600207	Drawn By: JOSEPH HUNTSINGER	Date: 12/13/2017	File Name: S0102002203