



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE: DELINEATOR
TEMPORARY REPAIRS: INTERIOR BENT DATA
CHANGED

Structure Safety Report

Routine Element Inspection

COUNTY: MITCHELL STRUCTURE NUMBER: 600157 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1325 MILE POST: _____
LOCATION: 1 MI.N.JCT.SR1328
FEATURE INTERSECTED: BEANS CREEK
LATITUDE: 36° 5' 8.29" LONGITUDE: 82° 13' 35.94"
SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE: E.BTS&INT.BT:TIM.CAPS/TIM.POST&SILLS/CONC.FTG.

SPANS: 1 @ 15.5'; 1 @ 15.083'
1 @ 15'-6"; 1 @ 15'-1

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

PRESENT CONDITION: Fair

INSPECTION DATE: 10/16/2017

POSTED SV: 18 19

POSTED TTST: 27 28

OTHER SIGNS PRESENT: DELINEATORS (3), ONE LANE BRIDGE (2)



Sign noticed issued for		Number Required
NO	WEIGHT LIMIT	0
YES	DELINEATORS	1
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

Joseph Huntsinger

ASSISTED BY DENNIS WILSON

Structure Element Scoring

Structure Number: **600157**

Inspection Date **10/16/201**
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	551	551	0	0	0
111	0	Timber Open Girder/Beam	Beam	270	270	0	0	0
206	0	Timber Column	Piles and Columns	8	8	0	0	0
216	0	Timber Abutment	Abutments	54	0	0	54	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	48	0	48	0	0
228	0	Timber Pile	Piles and Columns	5	5	0	0	0
235	0	Timber Pier Cap	Caps	62	59	3	0	0
332	0	Timber Bridge Railing	Bridge Rail	64	0	64	0	0
510	0	Wearing Surface	Wearing Surfaces	521	521	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 600157

Inspection Date: 10/16/2017

MMS Code	Element Name	Defect Name	Recommended Quantity
3346	Timber Abutment	Decay/Section Loss	54 Feet

Element Structure Maintenance Quantities

Structure Number: **600157**

Inspection Date **10/16/2017**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3346	Maintenance of Timber Bulkheads or Wingwalls	54	54	0	54	0	0
Beam	3304	Maintenance of Timber of Superstructure Components	0	270	0	0	0	270
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	64	0	0	64	0
Caps	3344	Maintenance To Timber Substrcutre	0	62	0	0	3	59
Deck	3324	Maintenance of Timber Deck Components	0	551	0	0	0	551
Footing	3348	Maintenance of Concrete Substructure	0	48	0	0	48	0
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	13	0	0	0	13
Wearing Surfaces	2816	Asphalt Surface Repair	0	521	0	0	0	521

Element Condition and Maintenance Data

Structure Number: 600157

Inspection Date: 10/16/2017

Span 1 Left Bridge Rail

Timber Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	16	0	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	RAIL POST BLOCKS ARE SOFT WITH SPLITS IN THE HORIZONTAL AND VERTICAL PLANES. POSTS, RAILS AND WHEELGUARDS ARE WEATHERED WITH DECAY UP TO 1/4" DEEP.	2	16		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	16	0	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	RAIL POST BLOCKS ARE SOFT WITH SPLITS IN THE HORIZONTAL AND VERTICAL PLANES. POSTS, RAILS AND WHEELGUARDS ARE WEATHERED WITH DECAY UP TO 1/4" DEEP.	2	16		Feet

General Comments

Span 2 Left Bridge Rail

Timber Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	16	0	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	RAIL POST BLOCKS ARE SOFT WITH SPLITS IN THE HORIZONTAL AND VERTICAL PLANES. POSTS, RAILS AND WHEELGUARDS ARE WEATHERED WITH DECAY UP TO 1/4" DEEP.	2	16		Feet

General Comments

Span 2 Right Bridge Rail

Timber Rail

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
332	Timber Bridge Railing	16	0	16	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
332	Decay/Section Loss	RAIL POST BLOCKS ARE SOFT WITH SPLITS IN THE HORIZONTAL AND VERTICAL PLANES. POSTS, RAILS AND WHEELGUARDS ARE WEATHERED WITH DECAY UP TO 1/4" DEEP.	2	16		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	27	0	0	27	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 1/2" DEEP SCATTERED THROUGHOUT THE ABUTMENT.	3	27	27	Feet

General Comments

End Bent 1**Cap 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	20	17	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
235	Decay/Section Loss	THE LEFT END OF THE CAP IS SATURATED AND SOFT, WITH 1/8" WIDE CRACKS THROUGH THE CORE. ALSO, THE TOP OF THE CAP IS ROTATED AWAY FROM THE STREAM WITH A 1/2" WIDE GAP OPEN BETWEEN THE STREAM FACE OF THE CAP AND POST 1.	2	3		Feet

General Comments

Bent 1**Cap Segment 1****Timber Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
235	Timber Pier Cap	5	5	0	0	0	Feet

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

THIS IS A TEMPORARY REPAIR TO A PREVIOUS PRIORITY MAINTENANCE.

Bent 1**Pile 2****Timber Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
206	Timber Column	1	1	0	0	0	Each

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

THIS IS PART OF A TEMPORARY REPAIR TO A PREVIOUS PRIORITY MAINTENANCE

End Bent 1**Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
235	Timber Pier Cap	16	0	16	0	0 Feet

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

16 Feet of Decay/Section Loss: Affects less than 10% of the member section. CAP IS SATURATED AND SOFT

End Bent 1**Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
220	Reinforced Concrete Pile Cap/Footing	26	0	0	26	0 Feet

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

26 Feet of Abrasion/Wear (PSC/RC): Coarse aggregate is loose or has popped out of the concrete matrix due to abrasion or wear. FULL LENGTH ABRASION UP TO 1.5" DEEP IN AREAS.

End Bent 1**Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
220	Reinforced Concrete Pile Cap/Footing	20	0	20	0	0 Feet

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

20 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. ABRASION THE FULL LENGTH OF THE FOOTING, UP TO 1/2" DEEP.

Bent 1**Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
220	Reinforced Concrete Pile Cap/Footing	21	0	21	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
220	Abrasion/Wear (PSC/RC)	FULL LENGTH ABRASION UP TO 1/4" DEEP EXPOSING THE COARSE AGGREGATE.	2	21	Feet

General Comments

End Bent 1**Reinforced Concrete Footing 1****Reinforced Concrete Footing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
220	Reinforced Concrete Pile Cap/Footing	27	0	27	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
220	Abrasion/Wear (PSC/RC)	FULL LENGTH ABRASION UP TO 1/4" DEEP, EXPOSING THE COARSE AGGREGATE.	2	27		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	27	0	0	27	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 1/2" DEEP SCATTERED THROUGHOUT THE ABUTMENT.	3	27	27	Feet

General Comments

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	279
Span 1	Beam 1	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 2	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 3	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 4	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 5	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 6	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 7	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 8	Timber Joist	Timber Open Girder/Beam	15
Span 1	Beam 9	Timber Joist	Timber Open Girder/Beam	15
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	16
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	16
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	264
Span 2	Deck	Timber Deck	Timber Deck	272
Span 2	Beam 1	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 2	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 3	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 4	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 5	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 6	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 7	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 8	Timber Joist	Timber Open Girder/Beam	15
Span 2	Beam 9	Timber Joist	Timber Open Girder/Beam	15
Span 2	Left Bridge Rail	Timber Rail	Timber Bridge Railing	16
Span 2	Right Bridge Rail	Timber Rail	Timber Bridge Railing	16
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	257
Bent 1	Cap Segment 1	Timber Pier Cap	Timber Pier Cap	5
Bent 1	Cap Segment 2	Timber Pier Cap	Timber Pier Cap	17
Bent 1	Cap Segment 2	Timber Pier Cap	Steel Protective Coating	31
Bent 1	Pile 1	Timber Column	Timber Column	1
Bent 1	Pile 1	Timber Column	Timber Pile	1
Bent 1	Pile 2	Timber Column	Timber Pile	1
Bent 1	Pile 2	Timber Column	Timber Column	1
Bent 1	Pile 3	Timber Column	Timber Column	1
Bent 1	Pile 3	Timber Column	Timber Pile	1
Bent 1	Pile 4	Timber Column	Timber Pile	1
Bent 1	Pile 4	Timber Column	Timber Column	1
Bent 1	Pile 5	Timber Column	Timber Column	1
Bent 1	Pile 5	Timber Column	Steel Protective Coating	143
Bent 1		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	21
Bent 1		Reinforced Concrete Footing	Reinforced Concrete Column	1
End Bent 1	Cap 1	Timber Pier Cap	Timber Pier Cap	20
End Bent 1	Pile 1	Timber Column	Timber Pile	1
End Bent 1	Pile 1	Timber Column	Timber Column	1
End Bent 1	Pile 2	Timber Column	Timber Column	1

Elements Verified

Location	Name	Component	Element Name	Amount
End Bent 1	Pile 2	Timber Column	Timber Pile	1
End Bent 1	Pile 3	Timber Column	Timber Pile	1
End Bent 1	Pile 3	Timber Column	Timber Column	1
End Bent 1	Pile 4	Timber Pile	Timber Pile	1
End Bent 1	Abutment	Timber Abutment	Timber Abutment	27
End Bent 1		Reinforced Concrete Footing	Steel Pier Cap	24
End Bent 1		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	27
End Bent 2	Cap 1	Timber Pier Cap	Timber Pier Cap	20
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	27

General Inspection Notes

Bent 1

Cap Segment 1

THIS IS A TEMPORARY REPAIR TO A PREVIOUS PRIORITY MAINTENANCE.

Bent 1

Pile 2

THIS IS PART OF A TEMPORARY REPAIR TO A PREVIOUS PRIORITY MAINTENANCE

National Bridge and NC Inspection Items

Structure Number: 600157

Inspection Date: 10/16/2017

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	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	6

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	551	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	36	3350
Field Scour Evaluation		L		
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	15		
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	Y
Priority Maintenance Request Submitted	YES/NO	Y
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	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 600157

Inspection Date: 10/16/2017

Item	Substructure - Item 60	Grade	6	Maint Code		Qty.	0
Details	INTERIOR BENT SILL: THE UPSTREAM END OF THE SILL IS SATURATED AND SOFT WITH UP TO 1/2" DEEP DECAY TO THE TOP FACE AND THE UPSTREAM END. ENB BENT 1 SILL: THE UPSTREAM END OF THE SILL IS SATURATED AND SOFT WITH UP TO 1/2" DEEP DECAY TO THE TOP FACE AND THE UPSTREAM END.						
Item	Regulatory Sign Notice Issued	Grade	Y	Maint Code		Qty.	0
Details	DELINEATOR						
Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
Details	DELINEATOR						
Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
Details	SV-19, TTST-28						
Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	551
Details	1' WIDE X 2" DEEP DECK DEBRIS ALONG BOTH WHEELGUARDS.						
Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	36
Details	SOUTH EAST WINGWALL: ALL TIMBERS ARE SOFT WITH DECAYED AREAS UP TO 1/2" DEEP. RETAINING POST ALSO HAS DECAY UP TO 1" DEEP. SOUTH WEST WINGWALL: THE RETAINING POST AT THE MIDDLE OF THE WING HAS BEEN SUPPLEMENTED. MULTIPLE BOARDS IN THE WING ARE SOFT WITH AREAS OF DECAY UP TO 1/2" DEEP.						
Item	General Comments and Misc Items	Grade		Maint Code		Qty.	0
Details	8' WIDE X 3" DEEP SETTLEMENT BEHIND THE SOUTH APPROACH FILL FACE ON THE LEFT SIDE OF THE STRUCTURE.						



1' WIDE X 2" DEEP DEBRIS ALONG BOTH WHEELGUARDS.



8' WIDE X 3" DEEP SETTLEMENT BEHIND THE SOUTH APPROACH FILL FACE ON THE LEFT SIDE OF THE STRUCTURE.



SOUTH WEST DELINEATOR IS MISSING. A SIGN NOTICE HAS BEEN ISSUED AND A PRIORITY MAINTENANCE IS REQUESTED.



SOUTH EAST WINGWALL: ALL TIMBERS ARE SOFT WITH DECAYED AREAS UP TO 1/2" DEEP. RETAINING POST ALSO HAS DECAY UP TO 1" DEEP.



End Bent 1 Abutment/Backwall : TIMBERS ARE SOFT WITH AREAS OF DECAY UP TO 1/2" DEEP SCATTERED THROUGHOUT THE ABUTMENT.



End Bent 1 Abutment/Backwall : TIMBERS ARE SOFT WITH AREAS OF DECAY UP TO 1/2" DEEP SCATTERED THROUGHOUT THE ABUTMENT.



SOUTH WEST WINGWALL: THE RETAINING POST AT THE MIDDLE OF THE WING HAS BEEN SUPPLEMENTED. MULTIPLE BOARDS IN THE WING ARE SOFT WITH AREAS OF DECAY UP TO 1/2" DEEP.



Bent 1 Footing: FULL LENGTH ABRASION UP TO 1/4" DEEP, EXPOSING THE COARSE AGGREGATE.



TEMPORARY REPAIRS MADE TO BENT 1.



Bent 1 Footing: FULL LENGTH ABRASION UP TO 1/4" DEEP EXPOSING THE COARSE AGGREGATE.



INTERIOR BENT SILL: THE UPSTREAM END OF THE SILL IS SATURATED AND SOFT WITH UP TO 1/2" DEEP DECAY TO THE TOP FACE AND THE UPSTREAM END.



ENB BENT 1 SILL: THE UPSTREAM END OF THE SILL IS SATURATED AND SOFT WITH UP TO 1/2" DEEP DECAY TO THE TOP FACE AND THE UPSTREAM END.



NORTH APPROACH ONE LANE BRIDGE AT 200' FROM THE BRIDGE END. THE SOUTH APPROACH SIGN IS ALSO AT 200'.



SOUTH APPROACH LOOKING NORTH



WEIGHT LIMIT SIGN



LOOKING UPSTREAM



LOOKING DOWNSTREAM



NORTH APPROACH LOOKING SOUTH



UPSTREAM PROFILE



END BENT 2



BENT 1



END BENT 1



DECK UNDERSIDE



DOWNSTREAM PROFILE

Stream Bed Soundings

(Profile diagram on following sheet)

County **MITCHELL**

Structure Number: **600157**

Inspection Date **10/16/2017**

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	2.900	0.000	FF END BENT 1
0.800	4.300	0.000	TOP OF CAP END BENT 1
1.300	9.700	8.300	SF END BENT 1
2.300	9.700	0.000	TOP OF FOOTING
2.301	10.200	0.000	WSWE
2.302	12.000	0.000	SF FOOTING
6.300	11.400	0.000	
10.300	10.200	0.000	WSWE
15.800	9.000	9.400	BENT 1
23.300	9.200	0.000	
29.300	7.700	10.300	SF END BENT 2
29.800	4.300	0.000	TOP OF CAP END BENT 2
30.600	2.900	0.000	FF END BENT 2

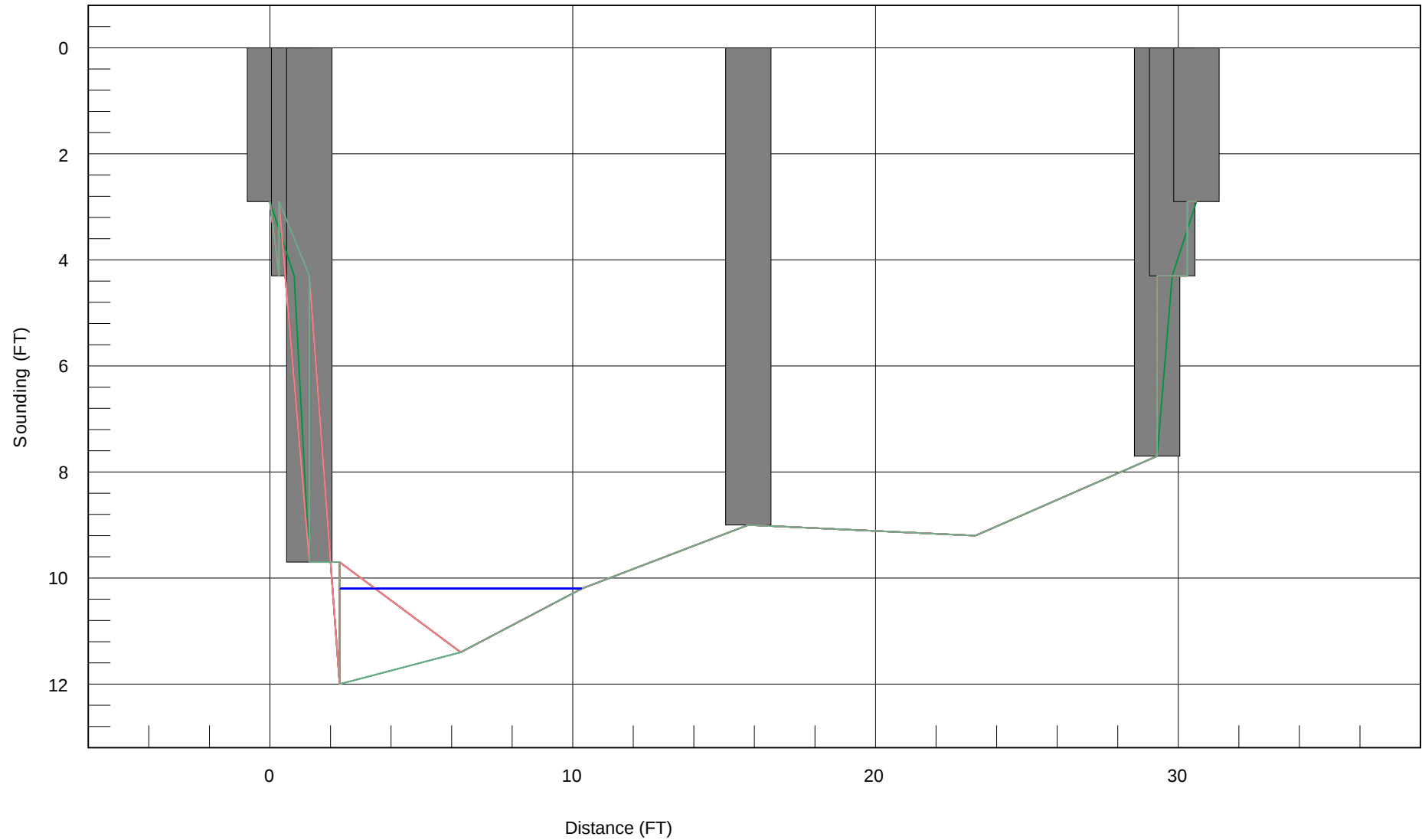
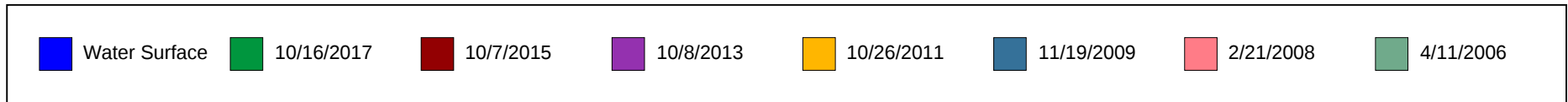
Bridge: 600157

County: MITCHELL

Date: 10/16/2017

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)



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

Run Date: 02/19/2018

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	600157		SUFFICIENCY RATING =	47.4
(8) STRUCTURE NUMBER(FEDERAL)		000000001210157		STATUS =	Functionally Obsolete
(5) INVENTORY ROUTE (ON/UNDER) - ON		31013250			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION	CODE
(3) COUNTY CODE 121 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - BEANS CREEK				(104)HIGHWAY SYSTEM Is not on NHS	0
(7) FACILITY CARRIED SR1325				(26) FUNCTIONAL CLASS - Local	09
(9) LOCATION 1 MI.N.JCT.SR1328				(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 36° 5' 8.29" (17)LONG 82° 13' 35.94"				(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -	
(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					
(43) STRUCTURE TYPE MAIN: Wood or Timber					
TYPE - Stringer Mutlibeam or Girder	CODE	702			
(44) STRUCTURE TYPE APPR :				CONDITION	CODE
TYPE -	CODE	000		(58) DECK	7
(45) NUMBER OF SPANS IN MAIN UNIT		2		(59) SUPERSTRUCTURE	7
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE	6
(107)DECK STRUCTURE TYPE - 8	CODE			(61) CHANNEL & CHANNEL PROTECTION	7
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS	N
(A) TYPE OF WEARING SURFACE -	CODE				
(B) TYPE OF MEMBRANE -	CODE			LOAD RATING AND POSTING	CODE
(C) TYPE OF DECK PROTECTION -	CODE			(31) DESIGN LOAD Unknown	0
				(63) OPERATING RATING METHOD - Allowable Stress	2
				(64) OPERATING RATING - HS-16	28
				(65) INVENTORY RATING METHOD - Allowable Stress	2
				(66) INVENTORY RATING - HS-11	20
				(70) BRIDGE POSTING - Posting Required	0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	P
				DESCRIPTION - Posted for Load	
AGE AND SERVICE					
(27) YEAR BUILT		1958			
(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		510		APPRAISAL	CODE
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT		6%		(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH		99 MI		(68) DECK GEOMETRY	2
				(69) UNDERCLEARANCES,VERTI & HORIZ	N
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN		15 FT		(71) WATERWAY ADEQUACY	7
(49) STRUCTURE LENGTH		31 FT		(72) APPROACH ROADWAY ALIGNMENT	6
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT				(36) TRAFFIC SAFETY FEATURES	0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		17 FT		(113)SCOUR CRITICAL BRIDGES	U
(52) DECK WIDTH OUT TO OUT		18 FT			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		PROPOSED IMPROVEMENTS	
(33) BRIDGE MEDIAN - No Median	CODE	0		(75) TYPE OF WORK -	CODE
(34) SKEW 30° (35) STRUCTURE FLARED		0		(76) LENGTH OF STRUCTURE IMPROVEMENT	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(94) BRIDGE IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		17 FT		(95) ROADWAY IMPROVEMENT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(96) TOTAL PROJECT COST	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		(114)FUTURE ADT 1020 (115) YEAR FUTURE ADT 2025	
(56) MIN LAT UNDERCLEAR LT REF -		000 FT			
NAVIGATION DATA					
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		(90) INSPECTION DATE	10/16/2017
(111)PIER PROTECTION -	CODE			(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
(39) NAVIGATION VERTICAL CLEARANCE		0		A) FRACTURE CRIT DETAIL - NO	A)
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			B) UNDERWATER INSP - NO	B)
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT			C) OTHER SPECIAL INSP NO	C)
				SCOUR	

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 02/19/2018

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
MITCHELL	13	1	600157	31	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1325	BEANS CREEK

LOCATED :	BRIDGE NAME :	CITY :
1 MI.N.JCT.SR1328		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	510 2012	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1958	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
	BMU	5.8851	TAN	60	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		9 FT		2		FT

SUPERSTRUCTURE :	TIMBER FLOOR ON TIMBER JOISTS
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SUBSTRUCTURE :	E.BTS&INT.BT:TIM.CAPS/TIM.POST&SILLS/CONC.FTG.
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SPANS :	1 @ 15'-6;1 @ 15'-1
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BEAMS OR GIRDERS :	9 LINES 6X12 TIMBER JOISTS @ 2'-.75 CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
3X4 TIM/2 AWS		18 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
17 FT	17.667 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-11	HS-16	Ext Joist	SV 18	27	02/25/2014

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 600157

County MITCHELL

Date: 10/16/2017

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3250	Install or Replace Ground Mounted Signs	SF	3	DELINEATOR AT THE SOUTH WEST CORNER MISSING. A SIGN NOTICE HAS BEEN ISSUED AND 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: 600157 County MITCHELL

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

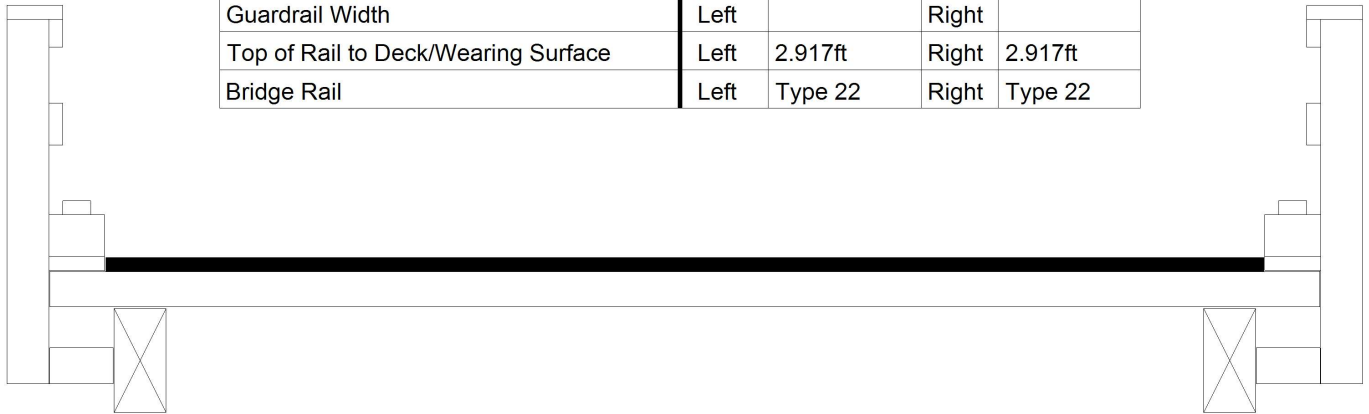
MMS Code	MMS Description	Quantity
3250	Install or Replace Ground Mounted Signs	3 SF
Location:		
Slope	Bent/Span No. 1	DELINEATOR
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/16/2017	JOSEPH HUNTSINGER	DENNIS WILSON
Details		
DELINEATOR AT THE SOUTH WEST CORNER MISSING. A SIGN NOTICE HAS BEEN ISSUED AND A PRIORITY MAINTENANCE IS REQUESTED.		



DELINEATOR AT THE SOUTH WEST CORNER MISSING. A SIGN NOTICE HAS BEEN ISSUED AND A PRIORITY MAINTENANCE IS REQUESTED.

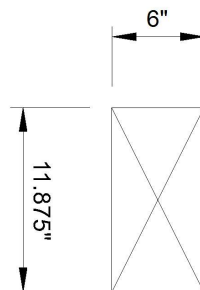
Bridge Inspection Field Sketch

Deck Width/Out to Out	18ft	Between Rails				17.667ft
Clear Roadway	17ft	Wearing Surface				0.167ft
Median Width		Median Height				
Curb Height		Left	0.625ft	Right	0.625ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.917ft	Right	2.917ft	
Bridge Rail		Left	Type 22	Right	Type 22	



Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.75
Top of Rail to Bottom of Beam	4.333	Right Overhang	0.75

Beam Number	Beam Type	Spacing
1 thru 9	Timber (Rectangular)	2.063ft



JOIST DIMENSIONS

10/16/17 - J.C.HUNTSINGER

Title

Typical Section

Description

Data Worksheet

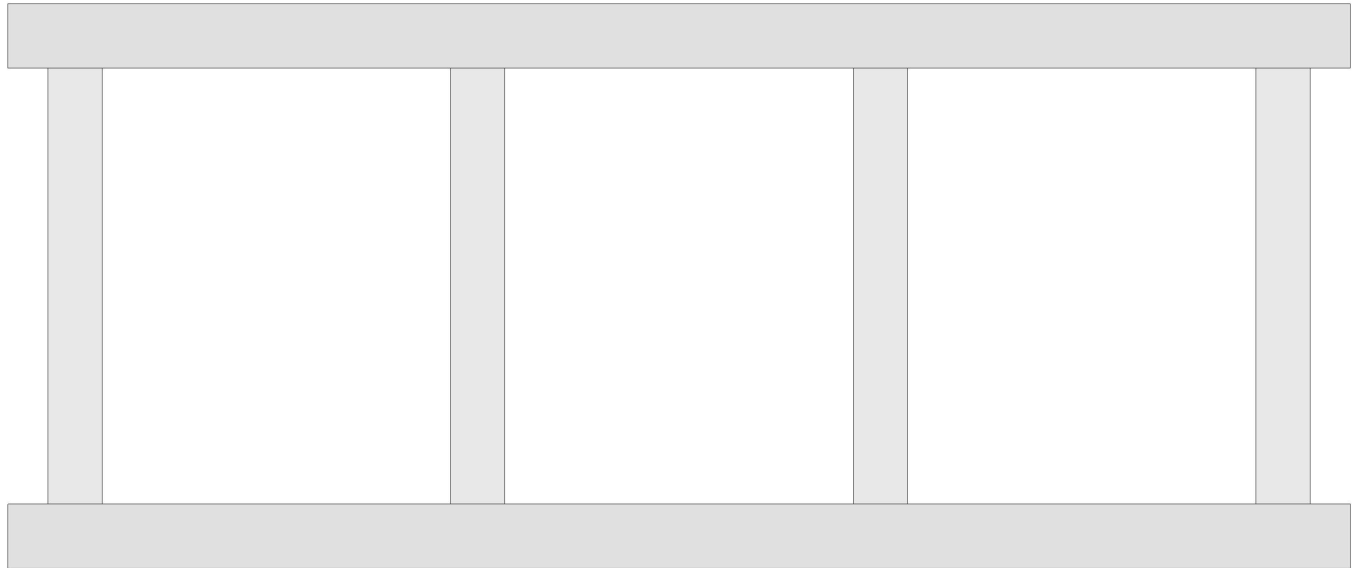
Bridge No: 600157

Drawn By: Roy W. Shook

Date: 02/21/2008

File Name: S0106001056

Bridge Inspection Field Sketch



Abutment #2 Sill Is 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.
20.000 ft.	.833 ft.	.958 ft.	1.000 ft.	1.000 ft.	.475 ft.	.475 ft.

Pile #	Material		Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	Spacing	0.813 ft.	0.813 ft.	3.833 ft.*	Vertical	No	No	No	No
2	Timber	6.000 ft.	0.813 ft.	0.813 ft.	3.833 ft.*	Vertical	No	No	No	No
3	Timber	6.000 ft.	0.813 ft.	0.813 ft.	3.833 ft.*	Vertical	No	No	No	No
4	Timber	6.000 ft.	0.813 ft.	0.813 ft.	3.833 ft.*	Vertical	No	No	No	No

Bent/Abutment #: 1	Similar Bents: 2
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10/16/17 - J.C.HUNTSINGER

Title		Description		
Abutments		Data Worksheet		
Bridge No:	600157	Drawn By:	Roy W. Shook	Date: 02/21/2008
		File Name:	S0106001057	

Bridge Inspection Field Sketch										
Cap Information			Material Timber							
Length 20.000 ft.	Width .833 ft.	Height .958 ft.	Left Overhang 1.333 ft.	Right Overhang 1.333 ft.	Left Beam to End of Cap. .474 ft.		Right Beam to End of Cap. .474 ft.			
Subcap Information			Material Timber							
Length 4.500 ft.	Width .833 ft.	Height .958 ft.	Left Overhang	Right Overhang	Left Pile to Splice. 2.5 ft.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	2.583 ft.	.833 ft.	.792 ft.	4 ft.	Battered	No	No	No	No
2	Timber	3.333 ft.	.833 ft.	.792 ft.	3 ft.	Vertical	No	No	No	No
3	Timber	6 ft.	.833 ft.	.792 ft.	4 ft.	Vertical	No	No	No	No
4	Timber	5.667 ft.	.833 ft.	.792 ft.	4 ft.	Vertical	No	No	No	No
5	Timber		0.833 ft.	0.792 ft.	4 ft.	Battered	No	No	No	No
Bent/Abutment #: 1			Similar Bents:							
Title MODIFIED 10/16/17 - J.C.HUNTSINGER Pier						Description Data Worksheet				
Bridge No: 600157			Drawn By: Roy W. Shook			Date: 02/21/2008		File Name: S0106001058		

Bridge Inspection Field Sketch



75' SOUTH OF THE BRIDGE.

Roadway	16.667ft Wide	2 Paved Lanes	Looking North
Left Shoulder	0.5ft Wide	0.5ft Paved	
Right Shoulder	0.5ft Wide	0.5ft Paved	
Left Guardrail			
Right Guardrail			

MODIFIED 10/16/17 - J.C.HUNTSINGER

Title

Approach Roadway

Description

Data Worksheet

Bridge No: 600157

Drawn By: D.D.H.

Date: 02/21/2008

File Name: S0106001055