



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PMN'S ISSUED FOR DECK, SUPERSTRUCTURE & SUBSTRUCTURE...

Structure Safety Report

Routine Element Inspection

COUNTY: ASHE STRUCTURE NUMBER: 040321 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1526 MILE POST:

LOCATION: 50 FT.S.JCT.NC194

FEATURE INTERSECTED: HELTON CREEK

LATITUDE: 36° 32' 59.13" LONGITUDE: 81° 28' 46.76"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:TIMBER POST&SILLS;PIERS:MASSIVE CONCRETE

1 @ 8'-8", 1 @ 38', 1 @ 25'-5"

SPANS: 1 @ 25'-5'; 1 @ 38'; 1 @ 8'-8

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

PRESENT CONDITION: Poor INSPECTION DATE: 06/28/2016

POSTED SV: 17 POSTED TTST: 21

OTHER SIGNS PRESENT: (4) DELINEATORS



SOUTH TO NORTH

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 ANDREW GLASCO	SIGNATURE <i>Andrew P. Glasco</i>	ASSISTED BY MAX FORD
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Structure Element Scoring

Structure Number: 040321

Inspection Date 6/28/2016

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	1443	1443	0	0	0
107	0	Steel Open Girder/Beam	Beam	657	0	631	26	0
515	107	Steel Protective Coating	Beam	2700	1948	0	700	52
205	0	Reinforced Concrete Column	Piles and Columns	2	1	0	1	0
216	0	Timber Abutment	Abutments	50	50	0	0	0
228	0	Timber Pile	Piles and Columns	9	9	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	42	42	0	0	0
235	0	Timber Pier Cap	Caps	42	42	0	0	0
332	0	Timber Bridge Railing	Bridge Rail	146	146	0	0	0
510	0	Wearing Surface	Wearing Surfaces	1370	0	0	1370	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 040321

Inspection Date: 06/28/2016

MMS Code	Element Name	Defect Name	Recommended Quantity
3314	Steel Open Girder/Beam	Corrosion	26 Feet
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
2816	Wearing Surface	Effectiveness (Wearing Surface)	1370 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	752 Square Feet

Element Structure Maintenance Quantities

Structure Number: 040321

Inspection Date 06/28/2016

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	50	0	0	0	50
Beam	3314	Maintenance Steel Superstructure Components	26	657	0	26	631	0
Beam	3342	Clean and Paint Steel	752	2700	52	700	0	1948
Bridge Rail	3316	Maintenance of Timber Bridge Rail	0	146	0	0	0	146
Caps	3344	Maintenance To Timber Substrcutre	0	42	0	0	0	42
Caps	3348	Maintenance of Concrete Substructure	0	42	0	0	0	42
Deck	3324	Maintenance of Timber Deck Components	0	1443	0	0	0	1443
Piles and Columns	3344	Maintenance To Timber Substrcutre	0	9	0	0	0	9
Piles and Columns	3348	Maintenance of Concrete Substructure	1	2	0	1	0	1
Wearing Surfaces	2816	Asphalt Surface Repair	1370	1370	0	1370	0	0

Element Condition and Maintenance Data

Structure Number: 040321

Inspection Date: 06/28/2016

Span 1 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	483	0	0	483	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Effectiveness (Wearing Surface)	SPAN (1) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN	3	483	483	Square Feet
General Comments						

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	26	0	26	0	0	Feet
515	Steel Protective Coating	95	69	0	26	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26	Square Feet
General Comments						

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	26	0	26	0	0	Feet
515	Steel Protective Coating	95	69	0	26	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26	Square Feet
General Comments						

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	26	0	26	0	0	Feet
515	Steel Protective Coating	95	69	0	26	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26	Square Feet

General Comments**Span 1****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	26	0	26	0	0 Feet
515	Steel Protective Coating	95	69	0	26	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26 Square Feet

General Comments**Span 1****Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	26	0	26	0	0 Feet
515	Steel Protective Coating	95	69	0	26	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26 Square Feet

General Comments**Span 1****Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	26	0	0	26	0 Feet
515	Steel Protective Coating	95	43	0	0	52 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION ALONG TOP AND BOTTOM FLANGES FULL LENGTH X (2" W) FROM EDGE OF FLANGES WITH (+/- 1/8") AVG. REMAINING SECTION AND (+/- 1/4") LOSS OF SECTION	3	26	26 Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION ALONG TOP AND BOTTOM FLANGES FULL LENGTH X (2" W) FROM EDGE OF FLANGES WITH (+/- 1/8") AVG. REMAINING SECTION AND (+/- 1/4") LOSS OF SECTION WITH NO PROTECTIVE COATING TO THESE AREAS	4	52	52 Square Feet

General Comments

Span 1		Beam 9				
Plate Girder						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	26	0	26	0	0 Feet
515	Steel Protective Coating	95	69	0	26	0 Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	26	26	Square Feet
General Comments						

Span 2**Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **040321**Inspection Date: **06/28/2016**

107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments**Span 2****Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	38	0	38	0	0 Feet
515	Steel Protective Coating	165	127	0	38	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38 Square Feet

General Comments

Span 2**Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	0	38	0	0	Feet
515	Steel Protective Coating	165	127	0	38	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38	Square Feet

General Comments

Span 2**Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	38	0	38	0	0	Feet
515	Steel Protective Coating	165	127	0	38	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	38		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	38	38	Square 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	165	0	0	165	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Effectiveness (Wearing Surface)	SPAN (3) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN	3	165	165	Square Feet

General Comments

Span 3**Beam 1****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	9	0	9	0	0	Feet
515	Steel Protective Coating	40	31	0	9	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9	Square Feet

General Comments

Span 3**Beam 2****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: **040321**Inspection Date: **06/28/2016**

107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments**Span 3****Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	9	0	9	0	0 Feet
515	Steel Protective Coating	40	31	0	9	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9	Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9 Square Feet

General Comments

Span 3**Beam 9****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	9	0	9	0	0	Feet
515	Steel Protective Coating	40	31	0	9	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	2	9		Feet
515	Effectiveness (Steel Protective Coatings)	CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS	3	9	9	Square Feet

General Comments

Bent 2**Reinforced Concrete Column 1****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	RIGHT END PIER (2) SURFACE SPALL AT WATER LINE (+/- 5' L X 3' H X 1" - 6" D)	3	1	1	Each

General Comments

1 Each of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review. DELAMINATED AND SPALL ON THE SOUTH FACE BEGINNING AT SOUTHEAST FACE 70"WIDE x 24"HIGH x 8"DEEP AND CONTINUING TO THE EAST FACE 24"WIDE x 17"HIGH x 6"DEEP.

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Deck	Timber Deck	Timber Deck	509
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 6	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 7	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 8	Plate Girder	Steel Open Girder/Beam	26
Span 1	Beam 9	Plate Girder	Steel Open Girder/Beam	26
Span 1	Left Bridge Rail	Timber Rail	Timber Bridge Railing	26
Span 1	Right Bridge Rail	Timber Rail	Timber Bridge Railing	26
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	483
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	21
Bent 1		Timber Pier Cap	Timber Pier Cap	22
Bent 1		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Pile	Timber Pile	1
Bent 1		Timber Abutment	Timber Abutment	25
Span 2	Deck	Timber Deck	Timber Deck	760
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 6	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 7	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 8	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 9	Plate Girder	Steel Open Girder/Beam	38
Span 2	Left Bridge Rail	Timber Rail	Timber Bridge Railing	38
Span 2	Right Bridge Rail	Timber Rail	Timber Bridge Railing	38
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	722
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	21
Bent 2		Timber Pier Cap	Timber Pier Cap	20
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Timber Pile	Timber Pile	1
Bent 2		Timber Pile	Timber Pile	1
Bent 2		Timber Pile	Timber Pile	1
Bent 2		Timber Pile	Timber Pile	1
Bent 2		Timber Abutment	Timber Abutment	25
Span 3	Deck	Timber Deck	Timber Deck	174
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	9

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	9
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	9
Span 3	Left Bridge Rail	Timber Rail	Timber Bridge Railing	9
Span 3	Right Bridge Rail	Timber Rail	Timber Bridge Railing	9
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	165

National Bridge and NC Inspection Items

Structure Number: 040321

Inspection Date: 06/28/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	4
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	4
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	1443	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C	F		
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		O		
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		

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	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: 040321

Inspection Date: 06/28/2016

Item	Deck - Item 58	Grade	4	Maint Code		Qty.	0
------	----------------	-------	---	------------	--	------	---

Details PMN'S ISSUED FOR WEARING SURFACE...

Item	Superstructure - Item 59	Grade	4	Maint Code		Qty.	0
------	--------------------------	-------	---	------------	--	------	---

Details PMN'S ISSUED FOR SUPERSTRUCTURE...

Item	Substructure - Item 60	Grade	4	Maint Code		Qty.	0
------	------------------------	-------	---	------------	--	------	---

Details PMN'S ISSUED FOR SUBSTRUCTURE...

Item	Approach Roadway Alignment - Item 72	Grade	6	Maint Code		Qty.	0
------	--------------------------------------	-------	---	------------	--	------	---

Details CURVE IN SOUTH APPROACH...

Item	Priority Maintenance Issued	Grade	Y	Maint Code		Qty.	0
------	-----------------------------	-------	---	------------	--	------	---

Details PMN'S ISSUED FOR DECK, SUPERSTRUCTURE & SUBSTRUCTURE...

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	1443
------	-------------	-------	---	------------	------	------	------

Details DECK DEBRIS FULL LENGTH ALONG EACH RAIL (+/- 1443 SF)

Item	Utilities	Grade	F	Maint Code		Qty.	0
------	-----------	-------	---	------------	--	------	---

Details (2") UTILITY LEFT SIDE OF RAIL IS BROKEN (+/- 6 LF) ON NORTH END SPAN (1)



DECK DEBRIS FULL LENGTH ALONG EACH RAIL (+/- 1443 SF)



Span 3 Wearing Surface: SPAN (3) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN



(2") UTILITY LEFT SIDE OF RAIL IS BROKEN (+/- 6 LF) ON NORTH END SPAN (1)



Bent 2 Pile 1: RIGHT END PIER (2) SURFACE SPALL AT WATER LINE (+/- 5' L X 3' H X 1" - 6" D)



Span 1 Beam 8: CORROSION FULL LENGTH ALONG EDGES OF TOP AND BOTTOM FLANGE WITH NO MEASURABLE SECTION LOSS



Span 1 Beam 6: CORROSION ALONG TOP AND BOTTOM FLANGES FULL LENGTH X (2" W) FROM EDGE OF FLANGES WITH (+/- 1/8") AVG. REMAINING SECTION AND (+/- 1/4") LOSS OF SECTION



LOOKING SOUTH



UPSTREAM



DOWNSTREAM



SOUTH TO NORTH



POSTING



WEST PROFILE



NORTH FACE PIER 2



EAST PROFILE



ABUTMENT B



ABUTMENT A

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

Run Date: 08/22/2016

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	040321		SUFFICIENCY RATING =	34.8
(8) STRUCTURE NUMBER(FEDERAL)		00000000090321		STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31015260			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		3			
(3) COUNTY CODE	9	(4) PLACE CODE	0		
(6) FEATURE INTERSECTED -	HELTON CREEK				
(7) FACILITY CARRIED	SR1526				
(9) LOCATION	50 FT.S.JCT.NC194				
(11)MILEPOINT		0			
(16)LAT	36° 32' 59.13"	(17)LONG	81° 28' 46.76"		
(98)BORDER BRIDGE STATE CODE		PCT SHARE			
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(43) STRUCTURE TYPE MAIN:	Steel			(112)NBIS BRIDGE SYSTEM -	YES
TYPE -	Stringer Mutlibeam or Girder	CODE	302	(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			3	(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 -	Temporary Structure/Conditions T
(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	4
				(59) SUPERSTRUCTURE	3
				(60) SUBSTRUCTURE	4
				(61) CHANNEL & CHANNEL PROTECTION	7
				(62) CULVERTS	N
				LOAD RATING AND POSTING	
				(31) DESIGN LOAD	Unknown 0
				(63) OPERATING RATING METHOD -	Load Factor 1
				(64) OPERATING RATING -	HS-1 1
				(65) INVENTORY RATING METHOD -	Load Factor 1
				(66) INVENTORY RATING -	HS-1 1
				(70) BRIDGE POSTING -	Posting Required 0
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED	p
				DESCRIPTION -	Posted for Load
				APPRAISAL	
				(67) STRUCTURAL EVALUATION	3
				(68) DECK GEOMETRY	4
				(69) UNDERCLEARANCES,VERTI & HORIZ	N
				(71) WATERWAY ADEQUACY	7
				(72) APPROACH ROADWAY ALIGNMENT	6
				(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	80
				(115) YEAR FUTURE ADT	2025
				INSPECTIONS	
				(90) INSPECTION DATE	04/20/2016
				(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE
				A) FRACTURE CRIT DETAIL -	NO A)
				B) UNDERWATER INSP -	YES 48Mo B) 04/20/2016
				C) OTHER SPECIAL INSP	NO C)
				SCOUR	
AGE AND SERVICE					
(27) YEAR BUILT			1965		
(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			40		
(30) YEAR OF ADT	2000	(109) TRUCK ADT PCT	%		
(19) BYPASS OR DETOUR LENGTH			99 MI		
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN			37 FT		
(49) STRUCTURE LENGTH			72 FT		
(50)CURB OR SIDEWALK: LEFT		.3 FT RIGHT	.3 FT		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			19 FT		
(52) DECK WIDTH OUT TO OUT			20.164 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			14 FT		
(33) BRIDGE MEDIAN -	No Median	CODE	0		
(34) SKEW	0°	(35) STRUCTURE FLARED	0		
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			19 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: 08/22/2016

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
ASHE	11	3	040321	72	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1526	HELTON CREEK

LOCATED :	BRIDGE NAME :	CITY :
50 FT.S.JCT.NC194		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	40 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1965	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
	BMU	5.7151	TAN	90	ON 2	UNDER	0

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

SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS
------------------	-------------------------

SUBSTRUCTURE :	E.BTS:TIMBER POST&SILLS;PIERS:MASSIVE CONCRETE
----------------	--

SPANS :	1 @ 25'-5';1 @ 38';1 @ 8'-8
---------	-----------------------------

BEAMS OR GIRDERS :	SPN1&3:9 LNS.12 I-BEAMS;SPN2:9 LNS.15 I-BEAMS @ 2'-4 CTS.
--------------------	---

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/5 AWS	1 LN. UTILITY	20.164 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19 FT	19.667 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-1	HS-1	Int.bm(B)	SV 17	TTST 21	DATE	07/26/2012	

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 040321

County ASHE

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 2816	Asphalt Surface Repair or Replacement	SY	483	Span 1 Wearing Surface: SPAN (1) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN	
 2816	Asphalt Surface Repair or Replacement	SY	722	Span 2 Wearing Surface: SPAN (2) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN	
 2816	Asphalt Surface Repair or Replacement	SY	165	Span 3 Wearing Surface: SPAN (3) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN	
 3314	Maintain Steel Superstructure Components	LF	26	Span 1 Beam 6: CORROSION ALONG TOP AND BOTTOM FLANGES FULL LENGTH X (2" W) FROM EDGE OF FLANGES WITH (+/- 1/8") AVG. REMAINING SECTION AND (+/- 1/4") LOSS OF SECTION	
 3348	Maintain Concrete Substructure Components	LF	1	Bent 2 Pile 1: RIGHT END PIER (2) SURFACE SPALL AT WATER LINE (+/- 5' L X 3' H X 1" - 6" D)	
 3348	Maintain Concrete Substructure Components	LF	3	AREA OF UNDERMINING AT (SE) CORNER OF ABUTMENT (B)... ARE MEASURES APPROX. (3'L X 1' H) WITH PROBES UP TO 18"	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040321

County ASHE

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

MMS Code	MMS Description	Quantity
2816	Asphalt Surface Repair or Replacement	483 SY
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/29/2016	ANDREW GLASCO	
Details		
Span 1 Wearing Surface: SPAN (1) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN		

MMS Code	MMS Description	Quantity
2816	Asphalt Surface Repair or Replacement	722 SY
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/29/2016	ANDREW GLASCO	
Details		
Span 2 Wearing Surface: SPAN (2) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040321

County ASHE

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

MMS Code	MMS Description	Quantity
2816	Asphalt Surface Repair or Replacement	165 SY
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/29/2016	ANDREW GLASCO	
Details		
Span 3 Wearing Surface: SPAN (3) PROTECTIVE COATING MISSING IN WHEEL PATHS ALONG EACH SPAN		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	26 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/29/2016	ANDREW GLASCO	
Details		
Span 1 Beam 6: CORROSION ALONG TOP AND BOTTOM FLANGES FULL LENGTH X (2" W) FROM EDGE OF FLANGES WITH (+/- 1/8") AVG. REMAINING SECTION AND (+/- 1/4") LOSS OF SECTION		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 040321 County ASHE

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
06/29/2016	ANDREW GLASCO	
Details		
Bent 2 Pile 1: RIGHT END PIER (2) SURFACE SPALL AT WATER LINE (+/- 5' L X 3' H X 1" - 6" D)		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	3 LF
Location:		
Abutment Substructure	Bent/Span No. 2	ABUTMENT (B)
Priority Level	Status	
Priority Maintenance	Division Maintenance Work In Process	
Submitted Date:	Submitted By:	Assisted By:
05/26/2016	MAX FORD	ANDREW GLASCO
Details		
AREA OF UNDERMINING AT (SE) CORNER OF ABUTMENT (B)... ARE MEASURES APPROX. (3' L X 1' H) WITH PROBES UP TO 18"		

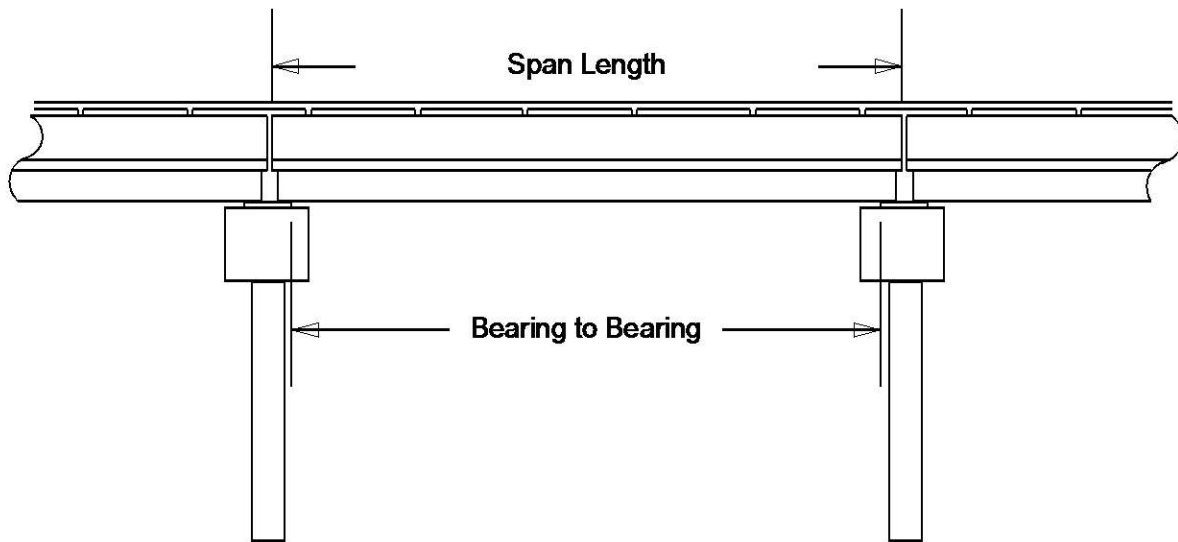


AREA OF UNDERMINING AT (SE) CORNER OF ABUTMENT (B)... ARE MEASURES APPROX. (3'L X 1' H) WITH PROBES UP TO 18"

Structure Data Worksheet

Spans

County: ASHE Structure No: 040321 Date: Inspected By: AG



Span No	Span Length	Bearing to Bearing	Comments
1	8 FT. 8 IN.	7 ft. 7 in.	
2	38 ft. 0 in.	36 ft. 6 in.	
3	25 FT. 5 IN.	24 ft. 0 in.	FACE OF ABUT. CAP TO FACE OF ABUT. CAP = 69.483'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 040321 County: ASHE Date: _____ By: AG

Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0.3	2.9	TOP OF FILL FACE			
0.3	4.5	Top of Cap			
0.31	7.2	FACE OF ABUTMENT	0.31	7.5	FACE OF ABUTMENT
8.7	10.5	PIER 1	8.7	9.9	PIER 1
11.9	11.9	Water Surface/Water Edge (WSWE)			
29	13.9				
46	11.9	Water Surface/Water Edge (WSWE)			
46.71	11.6	PIER 2	46.71	12.2	PIER 2
51	9.4				
60	8.7				
71.8	5.2	FACE OF ABUTMENT	71.8	5.6	FACE OF ABUTMENT
71.81	4.5	Top of Cap			
71.82	2.9	TOP OF FILL FACE			

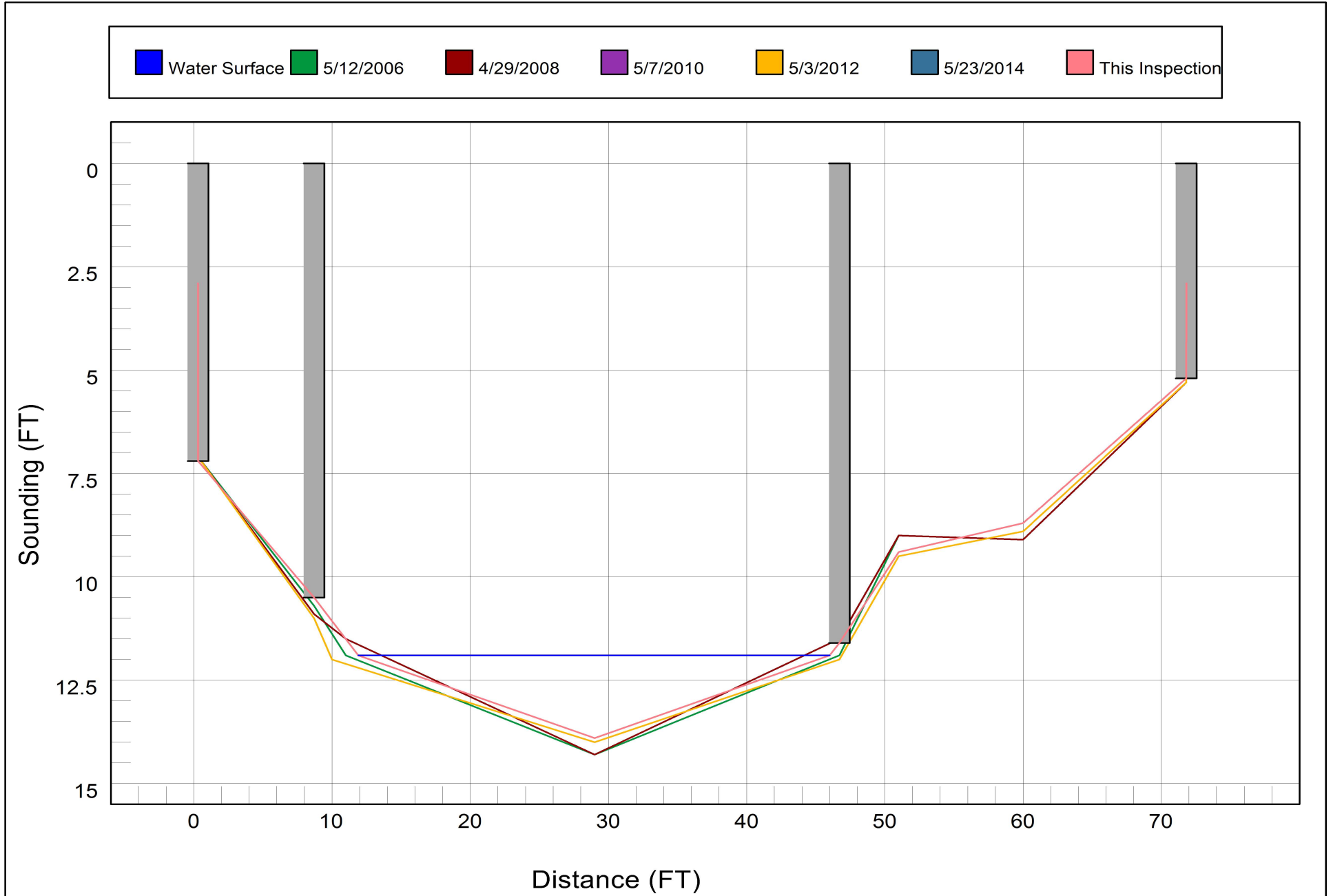
Bridge: 040321

County ASHE

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

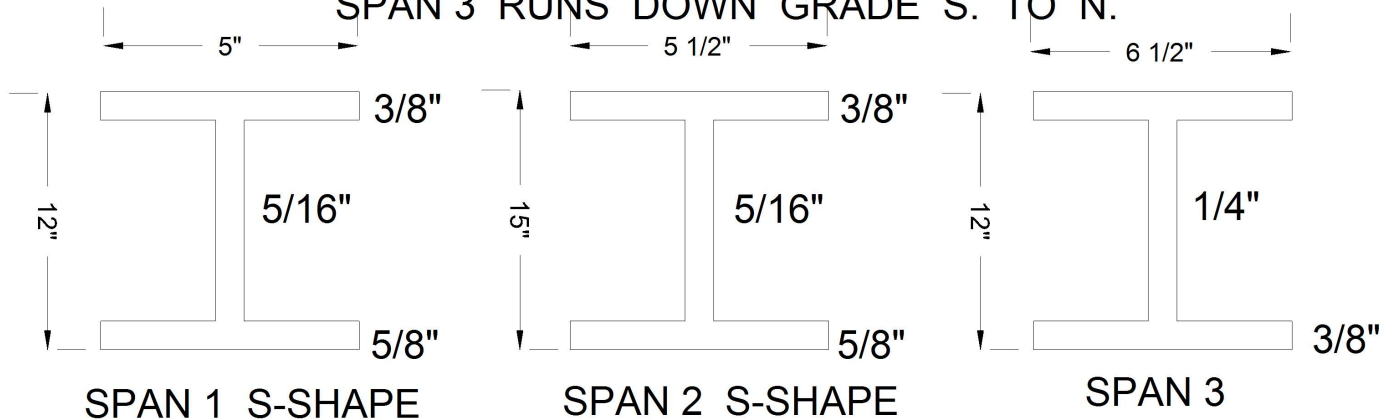
VERIFIED 6/28/16 M. FORD, A. GLASCO

Deck Width/Out to Out	20.164ft	Wearing Surface	0.042ft
Between Rails	19.667ft	Median Width	
Curb Height	0.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.833ft	Left Guardrail Width	0.5ft
Clear Roadway	19.0ft	Right Guardrail Width	0.5ft
Left Bridge Rail	Type 22	Right Bridge Rail	Type 22

Measurements for Span #	1	SPAN 2, 3 SIMILAR	
Deck Thickness	0.312	Left Overhang	0.75
Top of Rail to Bottom of Beam	4.500	Right Overhang	0.75

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.333ft	
2	Steel I Beam	2.333ft	
3	Steel I Beam	2.333ft	
4	Steel I Beam	2.333ft	
5	Steel I Beam	2.333ft	
6	Steel I Beam	2.333ft	
7	Steel I Beam	2.333ft	
8	Steel I Beam	2.333ft	
9	Steel I Beam		

SPAN 3 RUNS DOWN GRADE S. TO N.



Title

SUPER

Description

SUPER

Bridge No: 040321

Drawn By: DCW

Date: 04/29/2008

File Name: S0126000803

Bridge Inspection Field Sketch

VERIFIED 6/28/16 M. FORD, A. GLASCO

Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	21.333ft Long	1ft Wide	1ft High
Left Overhang	1.417ft	Lt Cap/Beam Overhang	1.333ft
Right Overhang	1.417ft	Rt Cap/Beam Overhang	1.333ft
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	4' 7"		10"	12"	Vertical
2	Wood or Timber	Post and Sills	4' 7"		10"	12"	Vertical
3	Wood or Timber	Post and Sills	4' 7"		10"	12"	Vertical
4	Wood or Timber	Post and Sills	4' 7"		10"	12"	Vertical
5	Wood or Timber	Post and Sills			10"	12"	Vertical

Title

ABUT. (A)

Description

SUB AB 1

Bridge No: 040321

Drawn By: G.R.R.

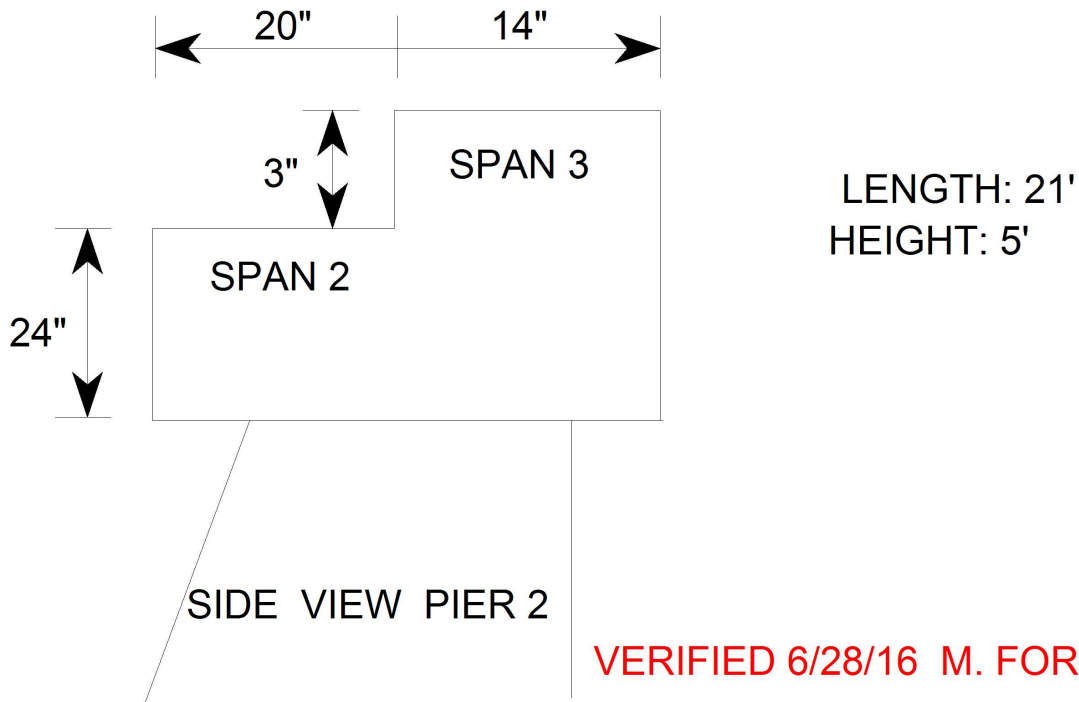
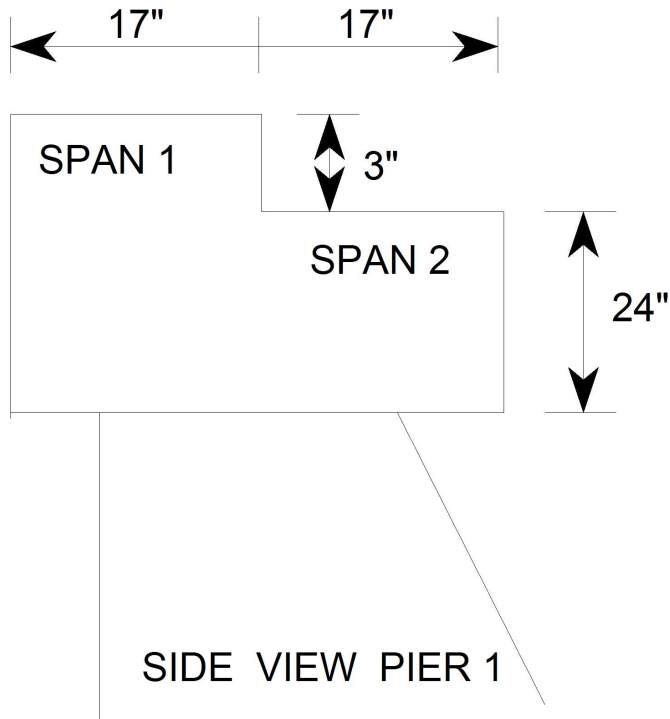
Date: 04/29/2008

File Name: S0130000795

Bridge Inspection Field Sketch

LENGTH: 21'

HEIGHT: 4'



LENGTH: 21'
HEIGHT: 5'

VERIFIED 6/28/16 M. FORD, A. GLASCO

Title

PIERS

Description

SUB PIER 1& 2

Bridge No: 040321

Drawn By: DCW

Date: 04/29/2008

File Name: S0126000804

Bridge Inspection Field Sketch

VERIFIED 6/28/16 M. FORD, A. GLASCO

Abutment #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	20ft Long	0.833ft Wide	0.959ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	.750ft
Right Overhang	1ft	Rt Cap/Beam Overhang	.750ft
Sill - Sill			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	6' 0"		12"	10"	Vertical
2	Wood or Timber	Post and Sills	6' 0"		12"	10"	Vertical
3	Wood or Timber	Post and Sills	6' 0"		12"	10"	Vertical
4	Wood or Timber	Post and Sills			12"	10"	Vertical

Title

ABUT. (B)

Description

SUB AB 2

Bridge No: 040321

Drawn By: G.R.R.

Date: 04/29/2008

File Name: S0130000796

Bridge Inspection Field Sketch

VERIFIED 6/28/16 M. FORD, A. GLASCO


NORTH APPROACH PAVED

Roadway	14ft Wide	2 Unpaved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPR. ROADWAY

Description

APPROACH ROADWAY

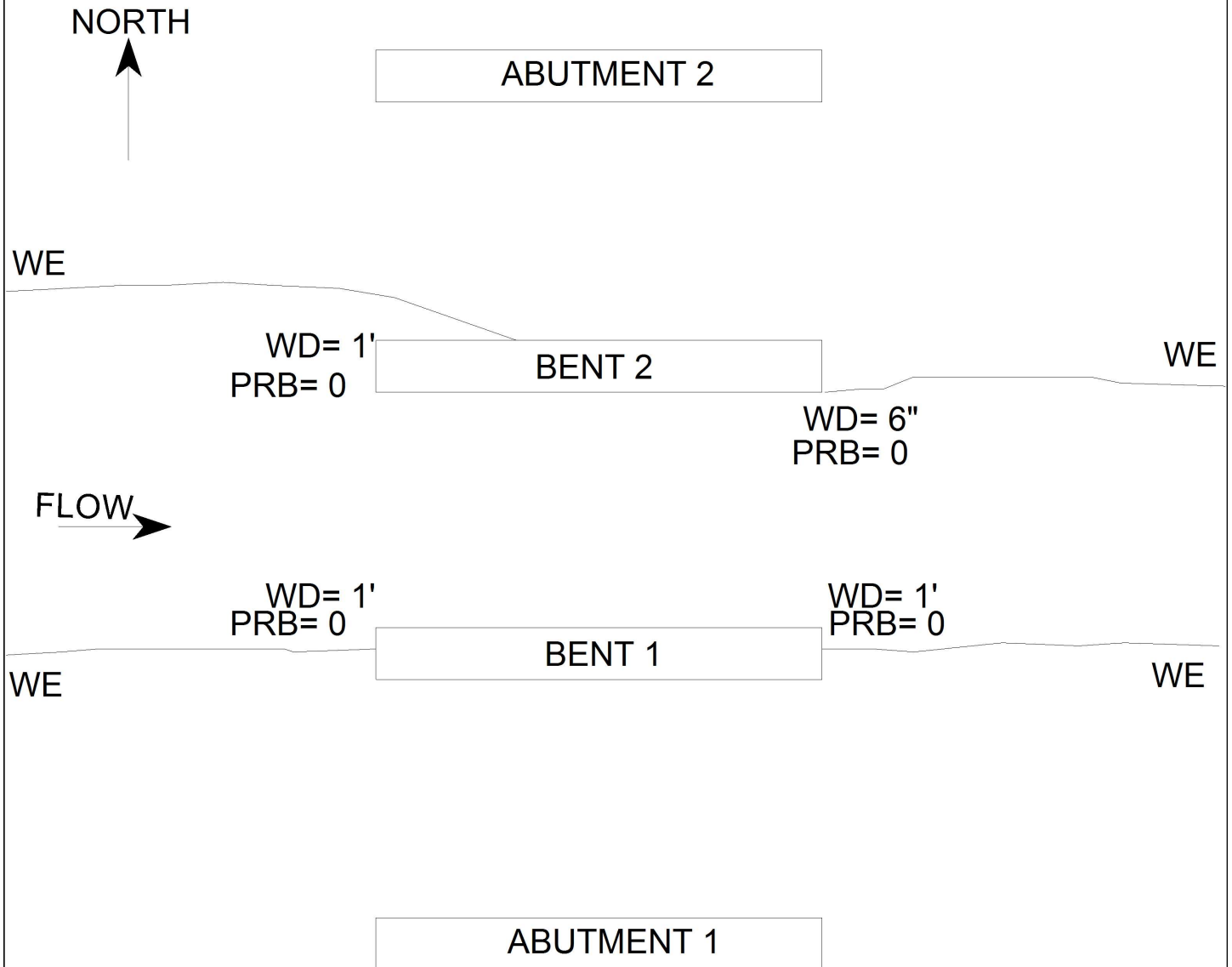
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File Name: S0130000797

Bridge Inspection Field Sketch



Title
PLAN VIEW

Description
PLAN VIEW

Bridge No: 040321

Drawn By: JOHN HOUSTON

Date: 04/20/2016

File Name: S0150000559