



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

(PMN) ISSUED FOR BEAMS 1 AND 10

TEMPORARY REPAIRS

Shored

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY ALEXANDER

BRIDGE NUMBER 010087

INSPECTION CYCLE 2 YRS

ROUTE SR1337

ACROSS KIRBY CREEK

M.P. 0

LOCATION 0.2 MI. S. JCT. NC16

SUPERSTRUCTURE STEEL PLANK DECK ON I-BEAMS

SUBSTRUCTURE EBTS:TIM.CAPS & PILES,INTBTS:TIM.CAPS,POSTS & CONCRETE SILLS

SPANS 1@25'3,1@30'0,1@25'3

LONGITUDE 81° 11' 26.0"

LATITUDE 35° 0' 3.5"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 10/12/2010

OPERATING RATING

PRESENT POSTING SV 25 TTST 37

PROPOSED POSTING

COMPUTER UPDATE 10-29-10

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 5 DELINEATORS



LOOKING SOUTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

Yes

WEIGHT LIMIT

1

No

DELINEATORS

No

NARROW BRIDGE

No

ONE LANE BRIDGE

No

LOW CLEARANCE

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

Run Date: 10/29/2010

IDENTIFICATION				CLASSIFICATION		CODE
(1) STATE NAME - NORTH CAROLINA	BRIDGE	010087		SUFFICIENCY RATING =		40
(8) STRUCTURE NUMBER(FEDERAL)		000000000030087		STATUS =	Structurally Deficient	
INVENTORY ROUTE (ON/UNDER) - ON		131013370				
(2) STATE HIGHWAY DEPARTMENT DISTRICT		12				
(3) COUNTY CODE	3	(4) PLACE CODE	00000	(112)NBIS BRIDGE SYSTEM -		YES
(6) FEATURE INTERSECTED -	KIRBY CREEK			(104)HIGHWAY SYSTEM	NON NHS Route	0
(7) FACILITY CARRIED	SR1337			(26) FUNCTIONAL CLASS -	Local	09
(9) LOCATION	0.2 MI. S. JCT. NC16			(100)STRAHNET HIGHWAY -	Not a STRAHNET Route	0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure	N
(16)LAT	36° 0' 3.8"	(17)LONG	81° 11' 25.6"	(102)DIRECTION OF TRAFFIC -	2-way Traffic	2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -	Temporary	T
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not Part of	0
				(20) TOLL	On Free Road	3
				(31) MAINTAIN -	State Highway Agency	01
				(22) OWNER -	State Highway Agency	01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible	5
STRUCTURE TYPE AND MATERIAL				CONDITION		CODE
(43) STRUCTURE TYPE MAIN:	Steel			(58) DECK		6
TYPE -	Stringer Multibeam or Girder	CODE	302	(59) SUPERSTRUCTURE		5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE		6
TYPE -		CODE		(61) CHANNEL & CHANNEL PROTECTION		7
(45) NUMBER OF SPANS IN MAIN UNIT			3	(62) CULVERTS		N
(46) NUMBER OF APPROACH SPANS						
(107)DECK STRUCTURE TYPE -	Corrugated Steel	CODE	6			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :						
(A) TYPE OF WEARING SURFACE -	Bituminous	CODE	6			
(B) TYPE OF MEMBRANE -	None	CODE	0			
(C) TYPE OF DECK PROTECTION -	None	CODE	0			
AGE AND SERVICE				LOAD RATING AND POSTING		CODE
(27) YEAR BUILT			1977	(31) DESIGN LOAD	Other or Unknown	0
(106)YEAR RECONSTRUCTED				(64) OPERATING RATING -	HS-1	101
(42) TYPE OF SERVICE : ON -	Highway			(66) INVENTORY RATING -	HS-1	101
UNDER -	Waterway	CODE	15	(70) BRIDGE POSTING -	Posting Required	4
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE			(41) STRUCTURE OPEN, POSTED ,OR CLOSED		P
(29) AVERAGE DAILY TRAFFIC			100	DESCRIPTION -	Posted for Load	
(30) YEAR OF ADT	2008	(109) TRUCK ADT PCT	6 %			
(19) BYPASS OR DETOUR LENGTH			1 MI			
GEOMETRIC DATA				APPRAISAL		CODE
(48) LENGTH OF MAXIMUM SPAN			30 FT	(67) STRUCTURAL EVALUATION		2
(49) STRUCTURE LENGTH			81 FT	(68) DECK GEOMETRY		5
(50)CURB OR SIDEWALK: LEFT	0.3 FT RIGHT		0.3 FT	(69) UNDERCLEARANCES,VERTI & HORIZ		N
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			23.8 FT	(71) WATERWAY ADEQUACY		7
(52) DECK WIDTH OUT TO OUT			24.3 FT	(72) APPROACH ROADWAY ALIGNMENT		7
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			20.0 FT	(36) TRAFFIC SAFETY FEATURES		0000
(33) BRIDGE MEDIAN -	No Median	CODE	0	(113)SCOUR CRITICAL BRIDGES		U
(34) SKEW	0° (35) STRUCTURE FLARED		NO	SCOUR PLAN OF ACTION		
(10) INVENTORY ROUTE MIN VERT CLEAR			99 FT 99 IN			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			23.8 FT			
(53) MIN VERT CLEAR OVER BRIDGE RDWY			99 FT 99 IN			
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad					
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad		99.9 FT			
(56) MIN LAT UNDERCLEAR LT REF -			0.0 FT			
NAVIGATION DATA				PROPOSED IMPROVEMENTS		CODE
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	(75) TYPE OF WORK -		
(111)PIER PROTECTION -	Not Applicable	CODE		(76) LENGTH OF STRUCTURE IMPROVEMENT		0 FT
(39) NAVIGATION VERTICAL CLEARANCE			0	(94) BRIDGE IMPROVEMENT COST		
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR				(95) ROADWAY IMPROVEMENT COST		
(40) NAVIGATION HORIZONTAL CLEARANCE			0	(96) TOTAL PROJECT COST		
				(97) YEAR OF IMPROVEMENT COST ESTIMATE		20
				(114)FUTURE ADT	220	(115) YEAR FUTURE ADT
						2025
				INSPECTIONS		
				(90) INSPECTION DATE		10/12/2010
				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE
				A) FRACTURE CRIT DETAIL -	NO	A)
				B) UNDERWATER INSP -	NO	B)
				C) OTHER SPECIAL INSP	NO	C)
				SCOUR		

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 10/29/2010

COUNTY : ALEXANDER		DIV : 12		DIST : 2		STRUCTURE NUMBER : 010087		LENGTH : 81 FEET	
ROUTE CARRIED : SR1337				FEATURE INTERSECTED : KIRBY CREEK					
LOCATED : 0.2 MI. S. JCT. NC16				BRIDGE NAME :			CITY :		
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 100 2008		RAIL TYPE : LT 233 RT 233	
BUILT : 1977		BY : BMU		PROJ : 6.782100		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY :		PROJ :		ALIGNMENT : TAN 90		LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 24 FT		WATER DEPTH : 1 FT			
SUPERSTRUCTURE : STEEL PLANK DECK ON I-BEAMS									
SUBSTRUCTURE : E.BNTS. TIM.CAPS& PILES, INT.BNTS. TIM.CAPS POSTS&CONC.SILL									
SPANS : 1@25'-3", 1@30', 1@25'-3"									
BEAMS OR GIRDERS : 10 LNS. OF I-BMS. @ 2'-7" CTRS SP#1,3, 14X34, SP#2 W16X40									
FLOOR : 10GA.STL.1. 5AWS		ENCROACHMENT :		DECK (OUT TO OUT) : 24.3 FT					
CLEAR ROADWAY : 23.8 FT		BETWEEN RAILS : 24.3 FT		SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT					
VERT.CL.OVER : 99 FT 99 IN		VERT.CL.UNDER : 00 FT 00 IN		HOR.CL.UNDER : 0.0 FT					
INV.RTG. : HS-1		OPE.RTG. : HS-1		CONTR.MEMBER : Int. bms (A&C)		POSTED : SV 25		TTST 37 DATE 10/27/2008	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

**BRIDGE INSPECTION RECORD AND SUMMARY
FOR SHORED STRUCTURES OR STRUCTURES
WITH TEMPORARY REPAIRS MADE TO KEEP
A BRIDGE OPEN**

BRIDGE: 010087 COUNTY: Alexander DATE: 5/23/07

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

	<u>CODE</u>	<u>BY</u>
S I & A ITEM 103 - TEMPORARY STRUCTURE DESIGNATION	<u>T</u>	<u>JRJ</u>
S I & A ITEM 59 - SUPERSTRUCTURE		
S I & A ITEM 60 - SUBSTRUCTURE	<u>4</u>	<u>JRJ</u> 5.27.07
S I & A ITEM 64 OPERATING RATING		
HS <u>0.0</u> BY: <u>AKL</u>		
S I & A ITEM 66 - INVENTORY RATING		
HS <u>0.0</u> BY: <u>AKL</u>		

COMMENTS

Bms #3,485 repaired.

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection

BRIDGE NO. 010087 COUNTY ALEXANDER

ROUTE SR1337

OVER KIRBY CREEK

STRUCTURE TYPE STEEL PLANK DECK ON I-BEAMS

ROUTE ORIENTATION S - N

SPANS 1@25'3", 1@30'0", 1@25'3"

EVALUATION CODE: 0-2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7-9 GOOD

INSPECTION ITEM				ITEM 61					
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.			a. WATERWAY	7	
1. WEARING SURFACE			7				b. ALIGNMENT	7	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE			50. APPROACH ROADWAY CONDITION			c. SCOUR	7	
	b. TIMBER						d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
	c. STEEL PLANK	3	6				51. APPROACH SLABS		
	d. OPEN GRID						52. PAINT SYSTEM	CODE A	5
3. RAILING	a. CONCRETE			53. UTILITIES			54. RESPONSE TO LIVE LOAD	7	
	b. TIMBER						55. ESTIMATED REMAINING LIFE	25	
	c. ALUMINUM						70. SI&A GENERAL CONDITION RATINGS		
	d. STEEL		7						
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			7						
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED					YES
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER			61. PROMPT-ACTION NOTICE ISSUED					YES
	b. MISC PREFAB			62. PRESENTLY POSTED					YES
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)					6
	d. STANDARD JOINTS			64. TOTAL SNOOPER INSP. TIME (HRS)					0
	e. OPEN JOINTS			65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)					0
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			7						
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59									
10. LONGITUDINAL BEAMS OR GIRDERS			5	a. DECK			ITEM 58	6	
11. LONGITUDINAL JOIST OR STRINGERS				b. SUPERSTRUCTURE			ITEM 59	5	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			7	c. SUBSTRUCTURE			ITEM 60	6	
13. END DIAP'S, CURTAIN WALLS, & CONN'S				d. CHANNEL & CHANNEL PROT.			ITEM 61	7	
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS					
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			6	a. WATERWAY ADAQUACY			7		
16. DRAINAGE SYSTEM (ON STRUCTURE)			7	b. APPR. RDWY. ALIGNMENT			7		
17. MOVABLE SPAN MACHINERY									
				72. FIELD SCOUR EVALUATION					0
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)									
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS	7	USE OF INSP. ACCESSIBILITY EQUIPMENT						
	b. PILES, POST, SILLS, & BRACING	7	SNOOPER (CODE S, 4, OR N)			HRS	NO		
	c. BULKHEADS, WING'S, & TIE BACKS	6	LADDER				YES		
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		BUCKET TRUCK				YES		
	b. ABUT. & BENT COL'S BREASTWALLS		BOAT				NO		
	c. ABUT. & INT. BENT PILES		OTHER				NO		
	d. BACKWALLS, WING'S, RETAIN. WALLS	7							
	e. ABUT. & BENT FOOTINGS & SILLS	NA							
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		SPECIAL INSPECTION REQUESTED FOR						
	b. PILES, BRACING, AND BULKHEADS								
38. FOUNDATION PILES TYPE MATERIAL				NOTE					
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)									
40. FENDER SYSTEMS				80. INSPECTED BY: MFL					
41. DRIFT			7	81. REVIEWED BY:					

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspection & Analysis</u>	
Team Leader MAX FORD			
Assisted By RAP			
Item No.	Grade		
2c	6	RUST, SCALE AND DETERIORATION ALONG BOTT. OF STEEL PLANK DECK OVER PIER 1 AND ALONG BEAMS 1 AND 10 IN ALL SPANS.	
10	5	BEAMS 3, 4 AND 5 REPAIED AT ABUT. A (SEE SKETCHES) RUST, SCALE AND AREAS OF COMPLETE LOSS OF SECTION ALONG TOP FLANGE OF BEAM ONE IN ALL SPANS. SEE SKETCH, (PMN) ISSUED. COVER PLATE INSTALLED ALONG BOTT. FLANGE OF BEAMS 1 AND 10 IN SPAN A, SEE SKETCH TOP FLANGE BEAM 10, SPAN A REDUCED TO KNIFE EDGE WITH SEVERAL AREAS OF COMPLETE LOSS. SEE SKETCH. (PMN) ISSUED.	
15	6	RUST AND SCALE ON BEARING PLATES.	
52	5	BEAM ENDS PAINTED OVER AT PIER ONE, SCALE VISIBLE BENEATH PAINT.	
35c	6	WEATHERED AND CHECKING ON ENDS.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 010087

County ALEXANDER

Date: 10/12/2010

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3314	Maintain Steel Superstructure Components	LF	80	RUST, SCALE AND AREAS OF COMPLETE LOSS OF SECTION ALONG TOP FLANGE OF BEAM ONE IN ALL SPANS. SEE SKETCH	
 3314	Maintain Steel Superstructure Components	LF	80	TOP FLANGE BEAM 10 REDUCED TO KNIFE EDGE IN ALL SPANS, WITH NUMEROUS AREAS OF COMPLETE LOSS. SEE SKETCH.	
3328	Maintenance/Repair/ Replace Steel Plank Bridge Floor	SF	375	RUST, SCALE AND DETERIORATION OF STEEL PLANK FLOOR OVER PIER ONE, AND BEAMS ONE AND TEN IN ALL SPANS.	
3342	Clean and Paint Structural Steel	SF	40	BEAM ENDS PAINTED OVER AT PIER ONE, SCALE VISIBLE BENEATH PAINT.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 010087

County ALEXANDER

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	80 LF
Location:		
Beams and Girders	Bent/Span No. 1	BEAM ONE TOP FLANGE, ALL SPANS
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/12/2010	MAX FORD	MAX FORD
Details		
RUST, SCALE AND AREAS OF COMPLETE LOSS OF SECTION ALONG TOP FLANGE OF BEAM ONE IN ALL SPANS. SEE SKETCH		

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	80 LF
Location:		
Beams and Girders	Bent/Span No. 1	TOP FLANGE OF BEAM 10 IN ALL SPANS
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
10/12/2010	MAX FORD	MAX FORD
Details		
TOP FLANGE BEAM 10 REDUCED TO KNIFE EDGE IN ALL SPANS, WITH NUMEROUS AREAS OF COMPLETE LOSS. SEE SKETCH.		



BEAMS 3, 4 AND 5 REPAIED AT ABUT. A (SEE SKETCHES)



RUST, SCALE AND AREAS OF COMPLETE LOSS OF SECTION ALONG TOP FLANGE OF BEAM ONE IN ALL SPANS. SEE SKETCH, (PMN) ISSUED.



BEAM ENDS PAINTED OVER AT PIER ONE, SCALE VISIBLE BENEATH PAINT.



COVER PLATE INSTALLED ALONG BOTT. FLANGE OF BEAMS 1 AND 10 IN SPAN A, SEE SKETCH



RUST, SCALE AND DETERIORATION OF STEEL PLANK FLOOR OVER PIER ONE, AND BEAMS ONE AND TEN IN ALL SPANS.



TOP FLANGE BEAM 10, SPAN A REDUCED TO KNIFE EDGE WITH SEVERAL AREAS OF COMPLETE LOSS. SEE SKETCH. (PMN) ISSUED.

Structure Data Worksheet

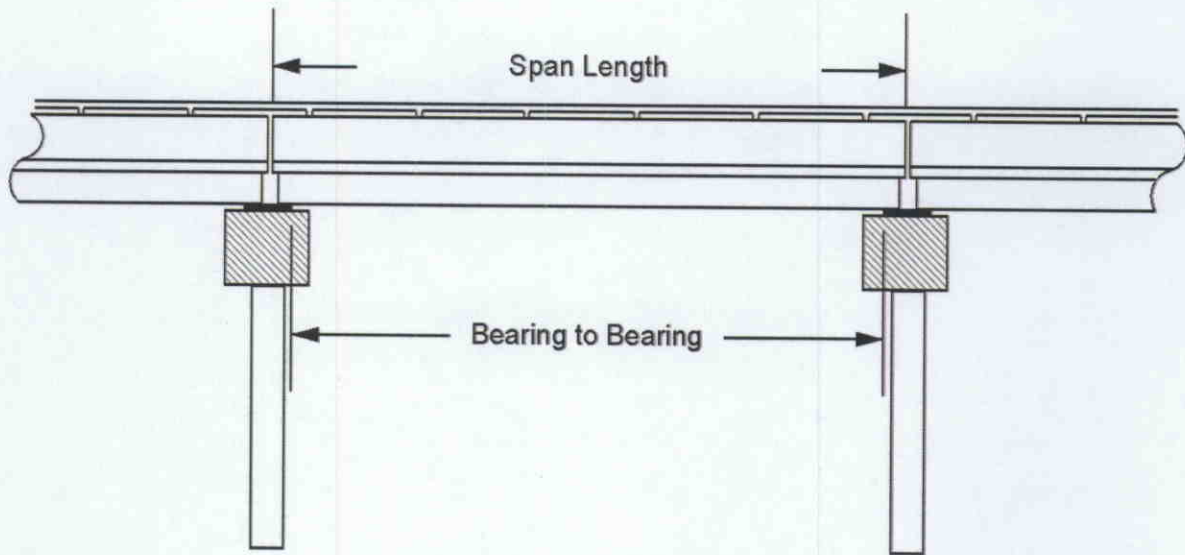
Spans

County: ALEXANDER

Structure No: 010087

Date: 10/12/2010

Inspected By: MF



Span No	Span Length	Bearing to Bearing	Comments
1	25.25 ft.	24.25 FT.	
2	30 ft.	29.5 ft.	
3	25.25 ft.	24.25 FT.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 010087 County: ALEXANDER Date: 10/12/2010 By: MF

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	2.7	TOP OF FILLFACE			
0.28	2.7	TOP OF FILLFACE			
0.29	4	TOP OF CAP			
0.3	6.8	FACE OF ABUT	0.3	6.5	FACE OF ABUT
5	8.4	SLOPE			
20	20	SLOPE			
25.3	22.5	PIER 1	25.3	21.3	PIER 1
35	25.5	WSWE			
40	26.5	BED FLOW EAST			
45	25.5	WSWE			
55.3	24.7	PIER 2	55.3	21.5	PIER 2
80.3	6.8	FACE OF ABUT	80.3	6.5	FACE OF ABUT
80.31	4	TOP OF CAP			
80.32	2.7	TOP OF FILLFACE			
80.5	2.7	TOP OF FILLFACE			

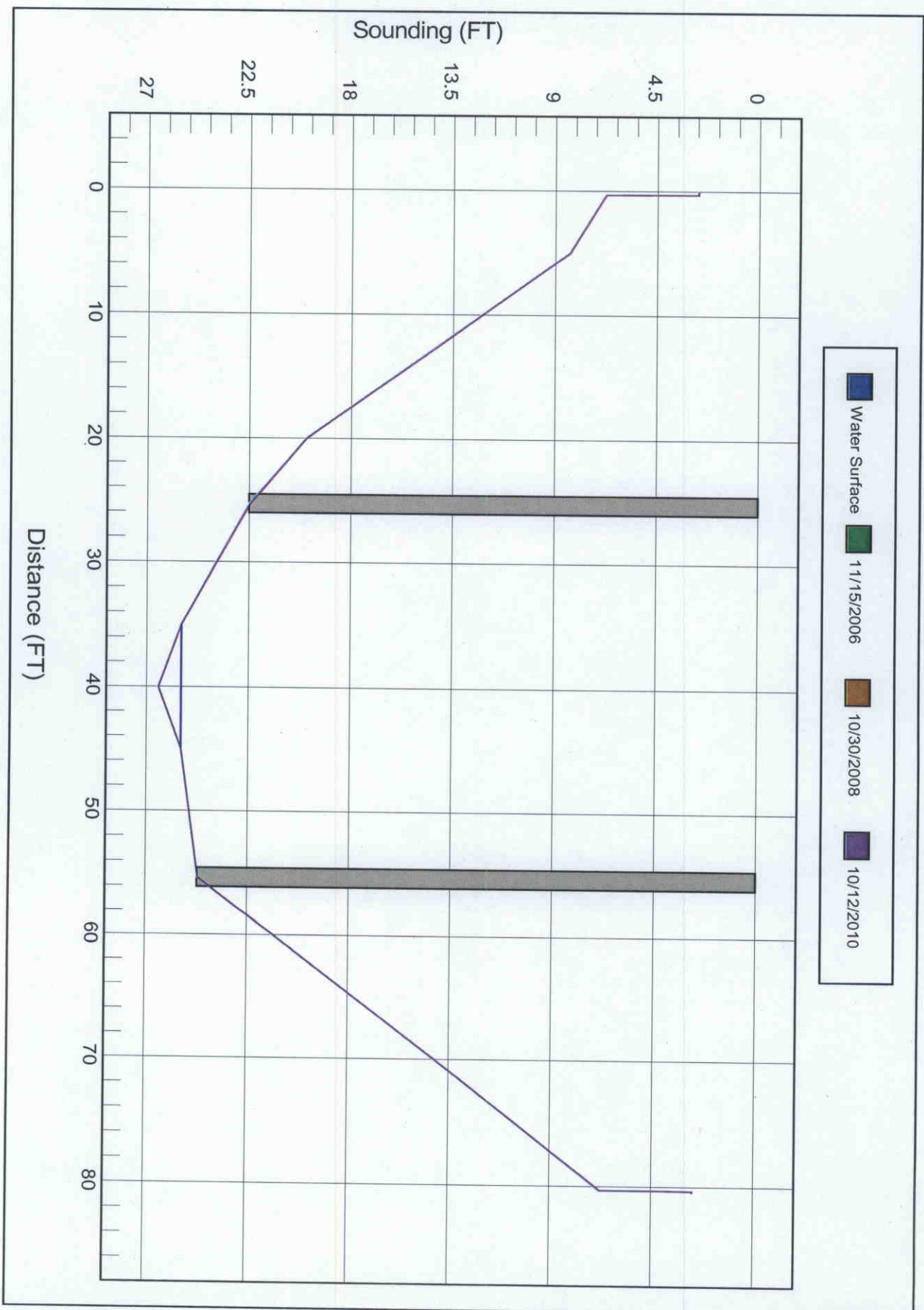
Bridge: 010087

County: ALEXANDER

Date: 10/12/2010

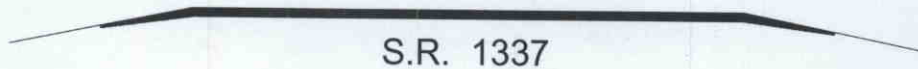
Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD



S.R. 1337

LOOKING NORTH

Roadway	20ft Wide		Looking North
Left Shoulder	7ft Wide		7ft Unpaved
Right Shoulder	7ft Wide		7ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPR. RDWY.

Description

APPR. RDWY

Bridge No: 010087

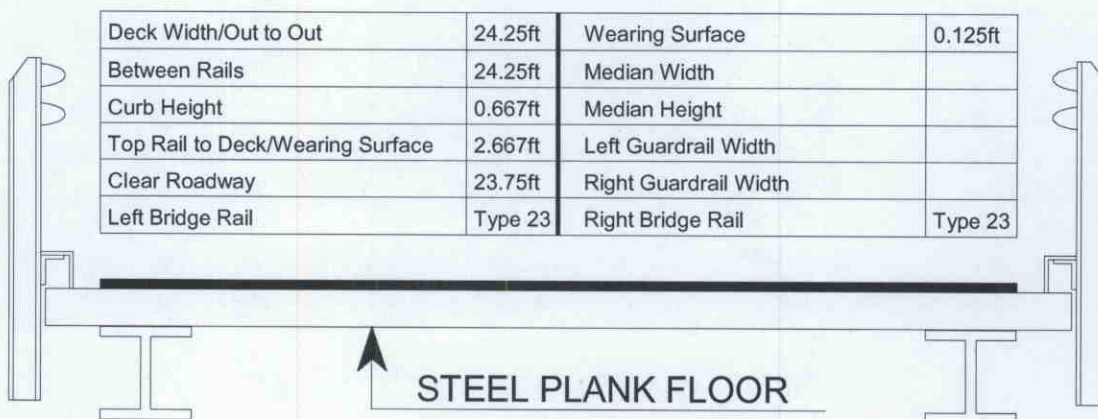
Drawn By: RAP

Date: 10/30/08

File Name: S0000001085

Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD



Measurements for Span #	1		
Deck Thickness	0.167	Left Overhang	0.5
Top of Rail to Bottom of Beam	4	Right Overhang	0.5

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.583ft	ALL SPANS SIMILAR
2	Steel I Beam	2.583ft	
3	Steel I Beam	2.583ft	
4	Steel I Beam	2.583ft	
5	Steel I Beam	2.583ft	
6	Steel I Beam	2.583ft	
7	Steel I Beam	2.583ft	
8	Steel I Beam	2.583ft	
9	Steel I Beam	2.583ft	
10	Steel I Beam		

Title

SUPER. 1

Description

DECK SECTION

Bridge No: 010087

Drawn By: RAP

Date: 10/30/08

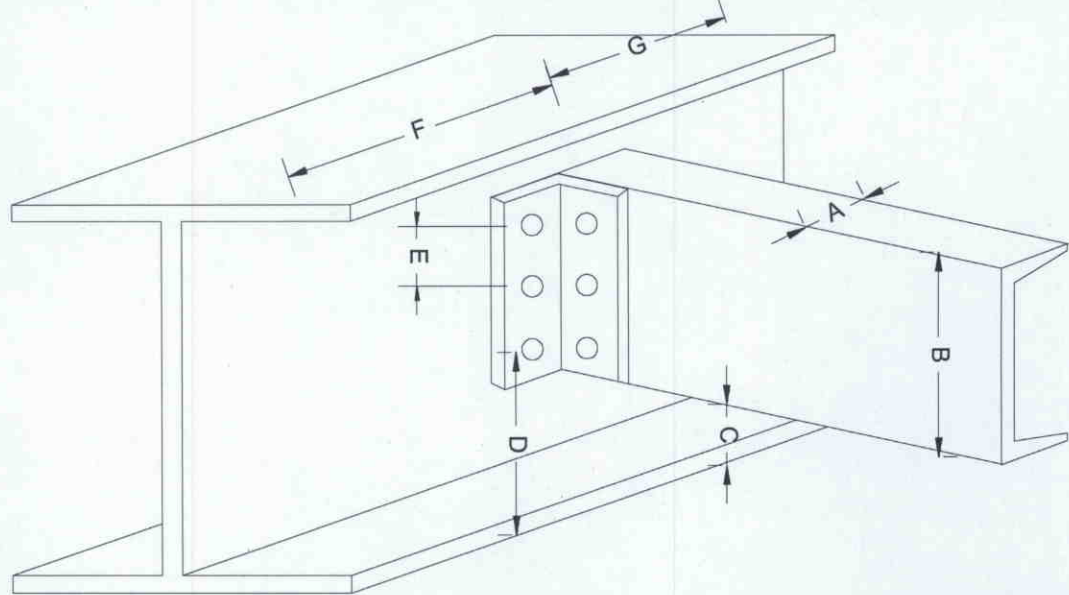
File Name: S0000001086

Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD

SPAN: 2

LOCATION: MID - SPAN



3 BOLTS

SPAN	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	BOLT SIZE
2	3"	12"	3"	4 1/2"	3"	15'	15'	3/4"

Title
DIAPH.

Description
DIAPH.

Bridge No: 010087

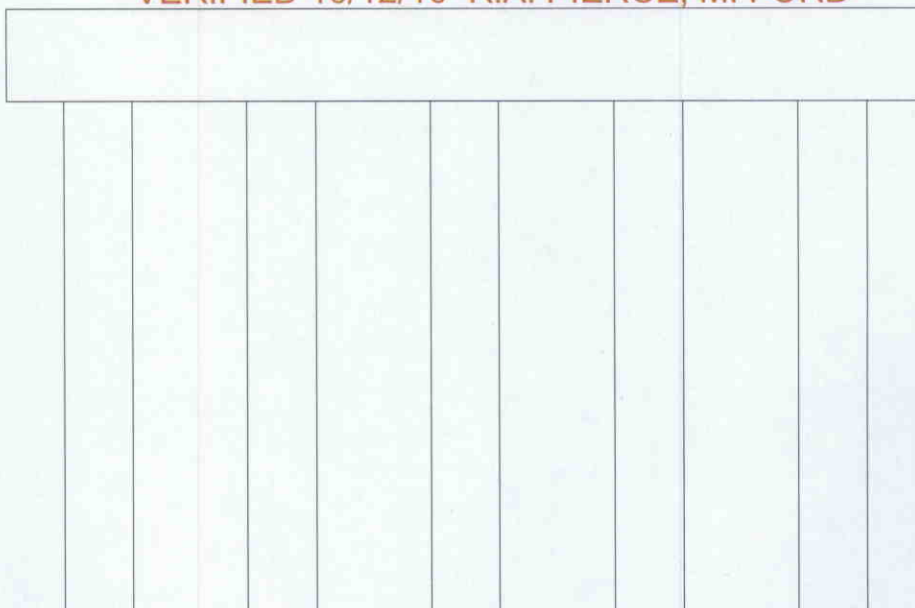
Drawn By: RAP

Date: 10/30/08

File Name: S0000001087

Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD



Abutment #	1	Abutment 2 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	26ft Long	0.979ft Wide	1.042ft High
Left Overhang	1.5ft	Lt Cap/Beam Overhang	1.25ft
Right Overhang	1.5ft	Rt Cap/Beam Overhang	1.5ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	5.75		1		Vertical
2	Wood or Timber	Pile Bent	5.75		1		Vertical
3	Wood or Timber	Pile Bent	5.75		1		Vertical
4	Wood or Timber	Pile Bent	5.75		1		Vertical
5	Wood or Timber	Pile Bent			1		Vertical

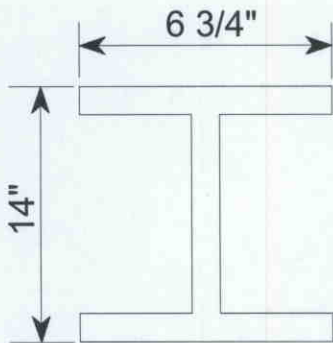
BM. OUT SAME @ ALL BENTS

Title SUBST.		Description ABUTS. & PIERS	
Bridge No: 010087	Drawn By: RAP	Date: 10/30/08	File Name: S0000001088

Bridge Inspection Field Sketch

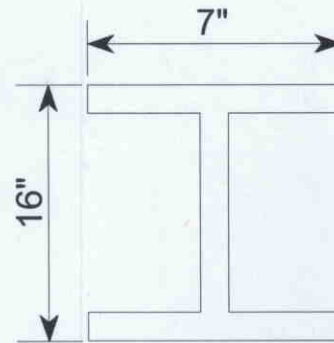
VERIFIED 10/12/10 R.A. PIERCE, M. FORD

SPAN # 1 & 3 BMS.

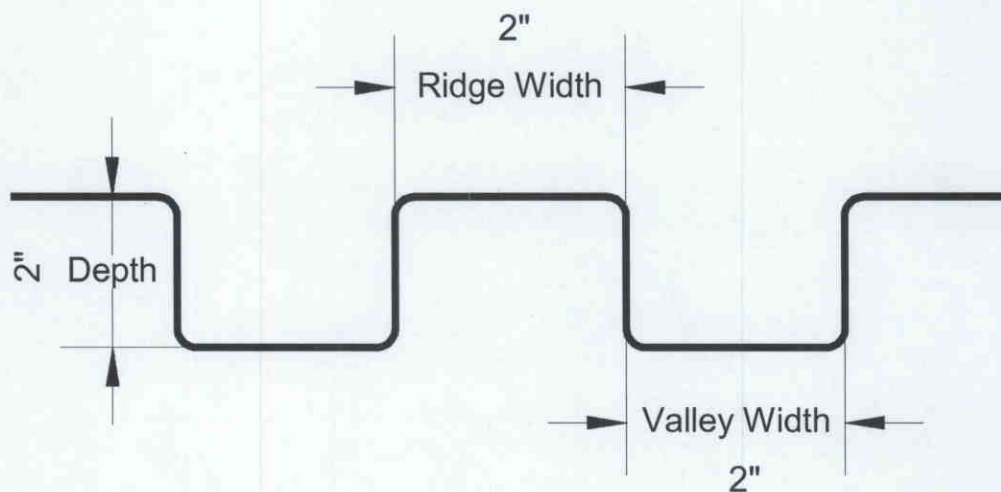


FLANGE THICKNESS: $\frac{7}{16}"$
WEB THICKNESS: $\frac{5}{16}"$

SPAN # 2 BMS.



FLANGE THICKNESS: $\frac{1}{2}"$
WEB THICKNESS: $\frac{5}{16}"$



Title

SUPER. 2

Description

BMS. & DECK

Bridge No: 010087

Drawn By: RAP

Date: 10/30/08

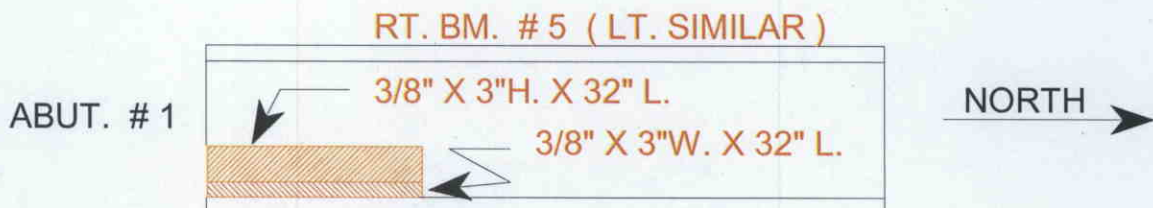
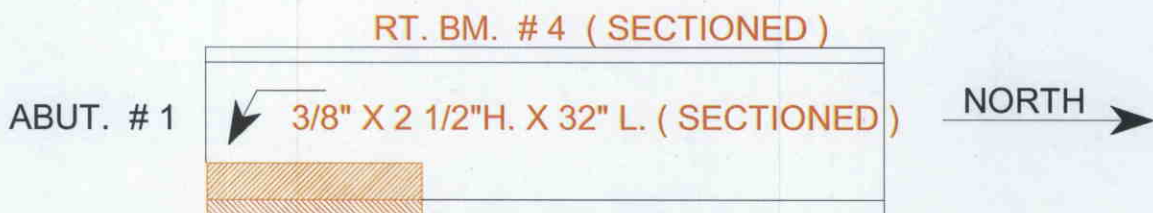
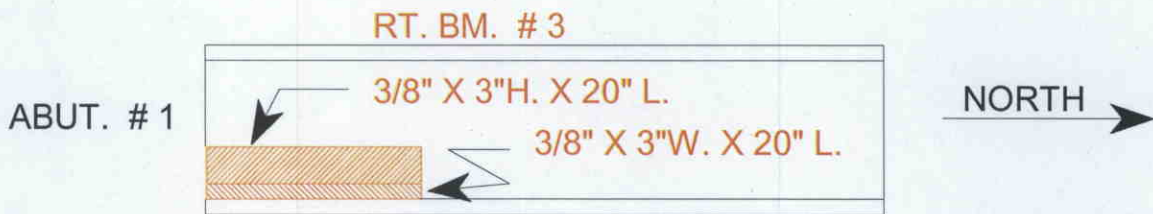
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Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD

REPAIRS TO BM. # 3 - 5 @ ABUT. # 1

COVER PLATE ON BOTT. FL. OF BM. # 1 & 10 IN SPAN # 1



COVER PLATE ON BOTT. FL. OF BM. # 1 & 10 IS 3/8" T. X 8" W.

19' - 8"

32"

32"

Title

BM. REPAIRS

Description

SPAN # 1

Bridge No: 010087

Drawn By: RAP

Date: 10/12/2010

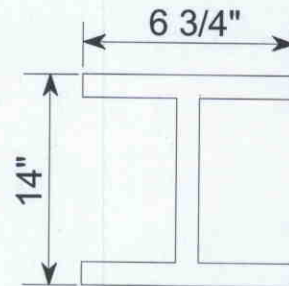
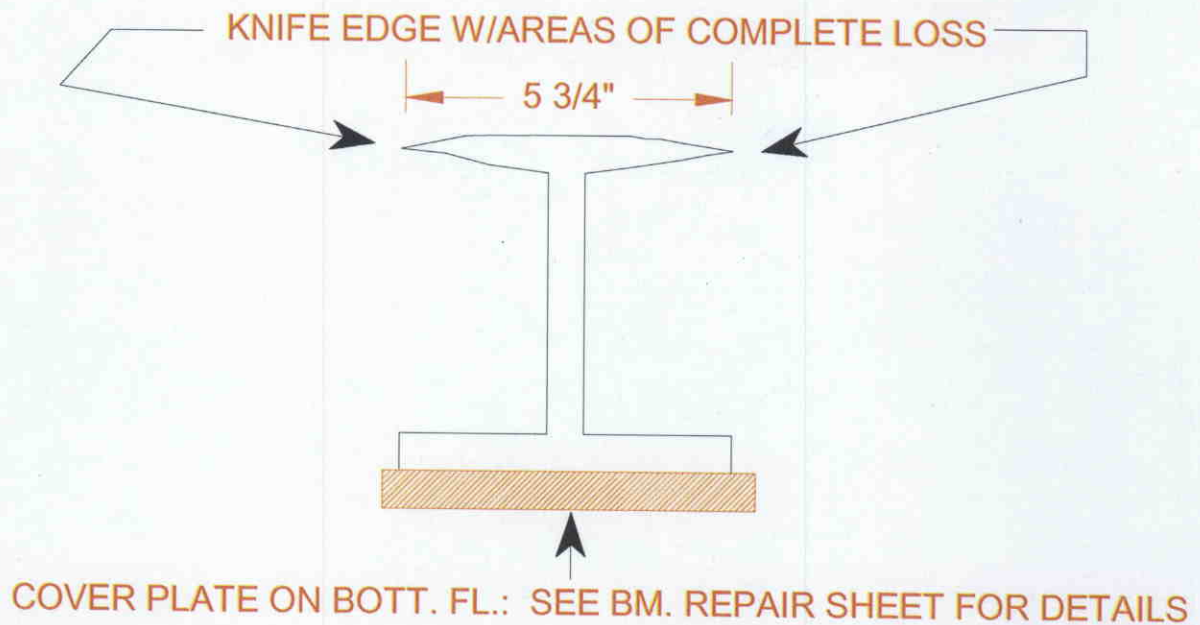
File Name: S0138072590

Bridge Inspection Field Sketch

VERIFIED 10/12/10 R.A. PIERCE, M. FORD

SECT. LOSS TO TOP FLANGES OF BM. # 1 & 10 IN SPAN # 1

LOSS EXTENDS FULL LENGTH OF BMS: SIMILAR IN ALL SPANS



FLANGE THICKNESS: $\frac{7}{16}"$
WEB THICKNESS: $\frac{5}{16}"$

SCALE: N.T.S.

ORIGINAL SECTION

Title		Description	
SECT. LOSS		BM. # 1 & 10	
Bridge No: 010087	Drawn By: RAP	Date: 10/12/2010	File Name: S0138072591



LOOKING SOUTH



UPSTREAM



DOWNSTREAM



SOUTH TO NORTH



ABUT. A



SOUTH FACE OF PIER 2 AND ABUT. B



EAST PROFILE



WEST PROFILE