



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY CALDWELL BRIDGE NUMBER 130164 INSPECTION CYCLE 2 YRS
ROUTE SR1503 ACROSS JOES FORK CREEK M.P. 0

LOCATION .2 MI.E.JCT.SR1503

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BT.1:TIM.CAP/TIM.P&S; E.BT.2:TIM.CAP/TIM.P&CONC.SILL

SPANS 1 @ 45'-8

LONGITUDE 81° 31' 48.4"

LATITUDE 36° 5' 21.5"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 01/12/2012

OPERATING RATING

PRESENT POSTING SV 17 TTST 21

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN. 2 ONE LANE BR.



LOOKING EAST

SIGN NOTICE ISSUED FOR	NUMBERED REQUIRED
<u>No</u> WEIGHT LIMIT	<u></u>
<u>No</u> DELINEATORS	<u></u>
<u>No</u> NARROW BRIDGE	<u></u>
<u>No</u> ONE LANE BRIDGE	<u></u>
<u>No</u> LOW CLEARANCE	<u></u>

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

Run Date: 02/09/2012

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	130164	SUFFICIENCY RATING =		5
(8) STRUCTURE NUMBER(FEDERAL)	000000000270164	STATUS =		Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	31015030				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2	CLASSIFICATION		CODE	
(3) COUNTY CODE 27 (4) PLACE CODE	00000	(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - JOES FORK CREEK		(104)HIGHWAY SYSTEM Is not on NHS		0	
(7) FACILITY CARRIED SR1503		(26) FUNCTIONAL CLASS - Local		09	
(9) LOCATION .2 MI.E.JCT.SR1503		(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure		N	
(16)LAT 36° 5' 12.2" (17)LONG 81° 31' 54.0"		(102)DIRECTION OF TRAFFIC - 2-way Traffic		2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE	(103)TEMPORARY STRUCTURE - Temporary Structure/Conditions		T	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - Not on the National Network		0	
		(20) TOLL On Free Road		3	
		(31) MAINTAIN - State Highway Agency		01	
		(22) OWNER - State Highway Agency		01	
		(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN: Steel Continuous					
TYPE - Stringer Multibeam or Girder	CODE	402			
(44) STRUCTURE TYPE APPR :					
TYPE -	CODE	000	CONDITION		CODE
(45) NUMBER OF SPANS IN MAIN UNIT	2		(58) DECK		7
(46) NUMBER OF APPROACH SPANS			(59) SUPERSTRUCTURE		7
(107)DECK STRUCTURE TYPE - 8	CODE		(60) SUBSTRUCTURE		5
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(61) CHANNEL & CHANNEL PROTECTION 7	
(A) TYPE OF WEARING SURFACE -	CODE		(62) CULVERTS		N
(B) TYPE OF MEMBRANE -	CODE		LOAD RATING AND POSTING		CODE
(C) TYPE OF DECK PROTECTION -	CODE		(31) DESIGN LOAD Other or Unknown		0
				(63) OPERATING RATING METHOD - Load Factor	
				(64) OPERATING RATING - HS-1 101	
				(65) INVENTORY RATING METHOD - Load Factor	
				(66) INVENTORY RATING - HS-1 101	
				(70) BRIDGE POSTING - Posting Required 0	
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED P	
				DESCRIPTION - Posted for Load	
AGE AND SERVICE				APPRAISAL	
(27) YEAR BUILT	1963	(67) STRUCTURAL EVALUATION		4	
(106)YEAR RECONSTRUCTED		(68) DECK GEOMETRY		3	
(42) TYPE OF SERVICE : ON - Highway		(69) UNDERCLEARANCES,VERTI & HORIZ		N	
UNDER - Waterway	CODE	15	(71) WATERWAY ADEQUACY		7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE			(72) APPROACH ROADWAY ALIGNMENT		3
(29) AVERAGE DAILY TRAFFIC	270	(36) TRAFFIC SAFETY FEATURES		0000	
(30) YEAR OF ADT 2000 (109) TRUCK ADT PCT	6%	(113)SCOUR CRITICAL BRIDGES		U	
(19) BYPASS OR DETOUR LENGTH	99 MI				
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN	23 FT	(75) TYPE OF WORK -		CODE	
(49) STRUCTURE LENGTH	46 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT		(94) BRIDGE IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	19.3 FT	(95) ROADWAY IMPROVEMENT COST			
(52) DECK WIDTH OUT TO OUT	20 FT	(96) TOTAL PROJECT COST			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	18 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(33) BRIDGE MEDIAN - No Median	CODE	0	(114)FUTURE ADT 540	(115) YEAR FUTURE ADT	2025
(34) SKEW 0° (35) STRUCTURE FLARED	0				
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	INSPECTIONS			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	19.3 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	(90) INSPECTION DATE		01/12/2012
(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: 02/09/2012

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
CALDWELL	11	2	130164	46	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1503	JOES FORK CREEK

LOCATED :	BRIDGE NAME :	CITY :
.2 MI.E.JCT.SR1503		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	270 2000	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1963	BMU			Other or Unknown

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

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	12 FT	2 FT

SUPERSTRUCTURE : TIMBER FLOOR ON CONT. I-BEAMS

SUBSTRUCTURE : E.BT.1:TIM.CAP/TIM.P&CONC.SILL; E.BT.2&INT.BT:TIM.CAPS/TIM.P&SILLS

SPANS : 1 @ 23', 1 @ 22'-8 CONT.

BEAMS OR GIRDERS : 8 LINES 18 CONT. I-BEAMS @ 2'-7 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
		20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
19.3 FT	19.9 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	21	DATE	09/30/2008
HS-1	HS-1	Int Bm	SV 17				

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

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 130164 COUNTY CALDWELL ROUTE SR1503 OVER JOES FORK CREEK
 STRUCTURE TYPE TIMBER FLOOR ON I-BEAMS
 ROUTE ORIENTATION W - E SPANS 1 @ 45'-8

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM				ITEM 61		
DECK ITEMS			GRADES	45. CHANNEL & CHANNEL PROT.		
1. WEARING SURFACE			G	a. WATERWAY	G	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58				b. ALIGNMENT	G	
a. CONCRETE				c. SCOUR	G	
b. TIMBER			1	d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
c. STEEL PLANK				50. APPROACH ROADWAY CONDITION		
d. OPEN GRID				51. APPROACH SLABS		
3. RAILING				52. PAINT SYSTEM		CODE A G
a. CONCRETE				53. UTILITIES		
b. TIMBER			G	54. RESPONSE TO LIVE LOAD		
c. ALUMINUM				55. ESTIMATED REMAINING LIFE		
d. STEEL				20		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G			
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH				61. PROMPT-ACTION NOTICE ISSUED		
a. STEEL PL OR FINGER				62. PRESENTLY POSTED		
b. MISC PREFAB				63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		
c. COMPRESSION SEAL				5		
d. STANDARD JOINTS				64. TOTAL SNOOPER INSP. TIME (HRS)		
e. OPEN JOINTS				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)			G			
				70. SI&A GENERAL CONDITION RATINGS		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK	ITEM 58	7
10. LONGITUDINAL BEAMS OR GIRDERS			G	b. SUPERSTRUCTURE	ITEM 59	7
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	d. CHANNEL & CHANNEL PROT.	ITEM 61	7
13. END DIAP'S, CURTAIN WALLS, & CONN'S						
14. FLOOR BEAMS AND CONNECTIONS				71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	a. WATERWAY ADAQUACY	7	
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT	3	
17. MOVABLE SPAN MACHINERY						
				72. FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)						
35. TIM SUB STR.				USE OF INSP. ACCESSIBILITY EQUIPMENT		
a. ABUT. & INT. BENT CAPS & RISERS			F	SNOOPER (CODE S, 4, OR N)		HRS NO
b. PILES, POST, SILLS, & BRACING			F	LADDER		NO
c. BULKHEADS, WING'S, & TIE BACKS			F	BUCKET TRUCK		NO
36. CONC SUB STR.				BOAT		NO
a. ABUT. & INT. BENT CAPS				OTHER		NO
b. ABUT. & BENT COL'S BREASTWALLS						
c. ABUT. & INT. BENT PILES						
d. BACKWALLS, WING'S, RETAIN. WALLS						
e. ABUT. & BENT FOOTINGS & SILLS			G			
37. STEEL SUB STR.				SPECIAL INSPECTION REQUESTED FOR		
a. ABUT. & INT. BENT CAPS & RISERS						
b. PILES, BRACING, AND BULKHEADS						
38. FOUNDATION PILES TYPE MATERIAL				NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)						
40. FENDER SYSTEMS				80. INSPECTED BY: <i>Don Wilburn</i>		
41. DRIFT			G	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 Inspeccion & Analysis</u>	
Team Leader DWELBORN			
Assisted By JSF			
Item No.	Grade		
1	G	SEVERAL TRANSVERSE CRACKS.	
35a	F	CRACKING AND SOFT. SOFT ON ENDS. FEW SPLITS ON ENDS, TOPS AND BOTTOMS. TEMPORARY BENT ADDED FOR ROAD CONSTRUCTION AND WILL BE REMOVED ACCORDING TO BRIDGE MAINTENANCE SUPERVISOR.	
35b	F	CRACKING, SPLITTING, DISCOLORED AND SOFT WITH SPOT DECAY. HOLLOW SOUNDING AREAS.	
35c	F	CRACKING, DISCOLORED AND SOFT WITH SCATTERED DECAY. RIGHT END ABUTMENT 1 AND SOUTHWEST WING LEANING BACK.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 130164

County CALDWELL

Date: 01/12/2012

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3346	Repair / Maintain Timber Wings & Blkhds	SF	75	SCATTERED DECAY. RIGHT ABUTMENT 1 AND SOUTHWEST WING LEANING BACK & SUPPORT POST BROKEN	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



ABUTMENT 2 ALL TEMP REPAIR



SOUTHWEST WING



RIGHT END ABUTMENT 1

Structure Data Worksheet

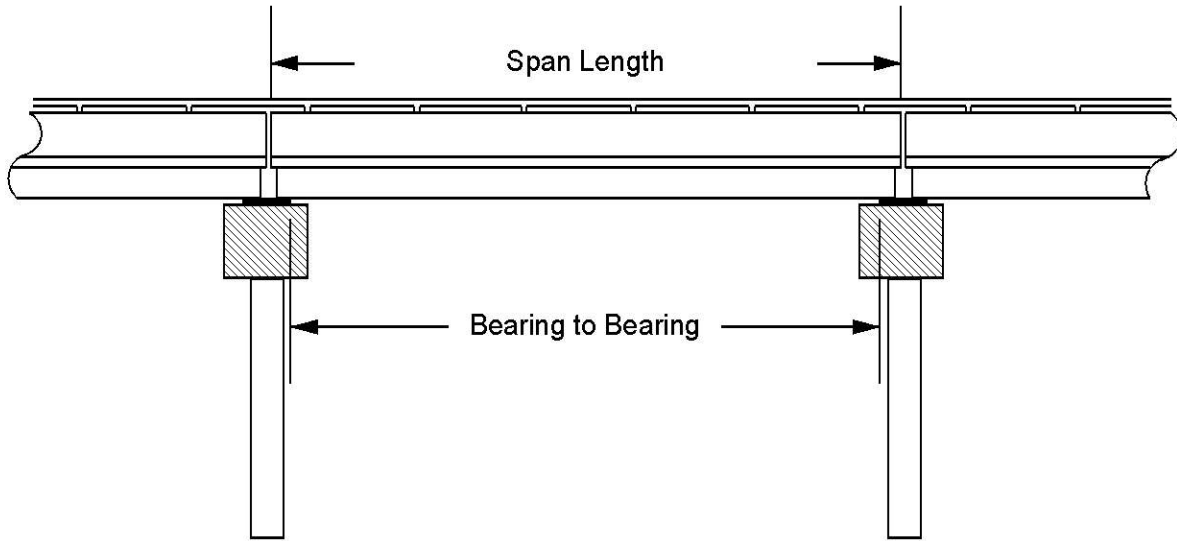
Spans

County: CALDWELL

Structure No: 130164

Date: 01/12/2012

Inspected By: DCW



Span No	Span Length	Bearing to Bearing	Comments
1	45 ft. 8 in.	44 ft. 3 in.	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 130164 County: CALDWELL Date: 01/12/2012 By: DCW

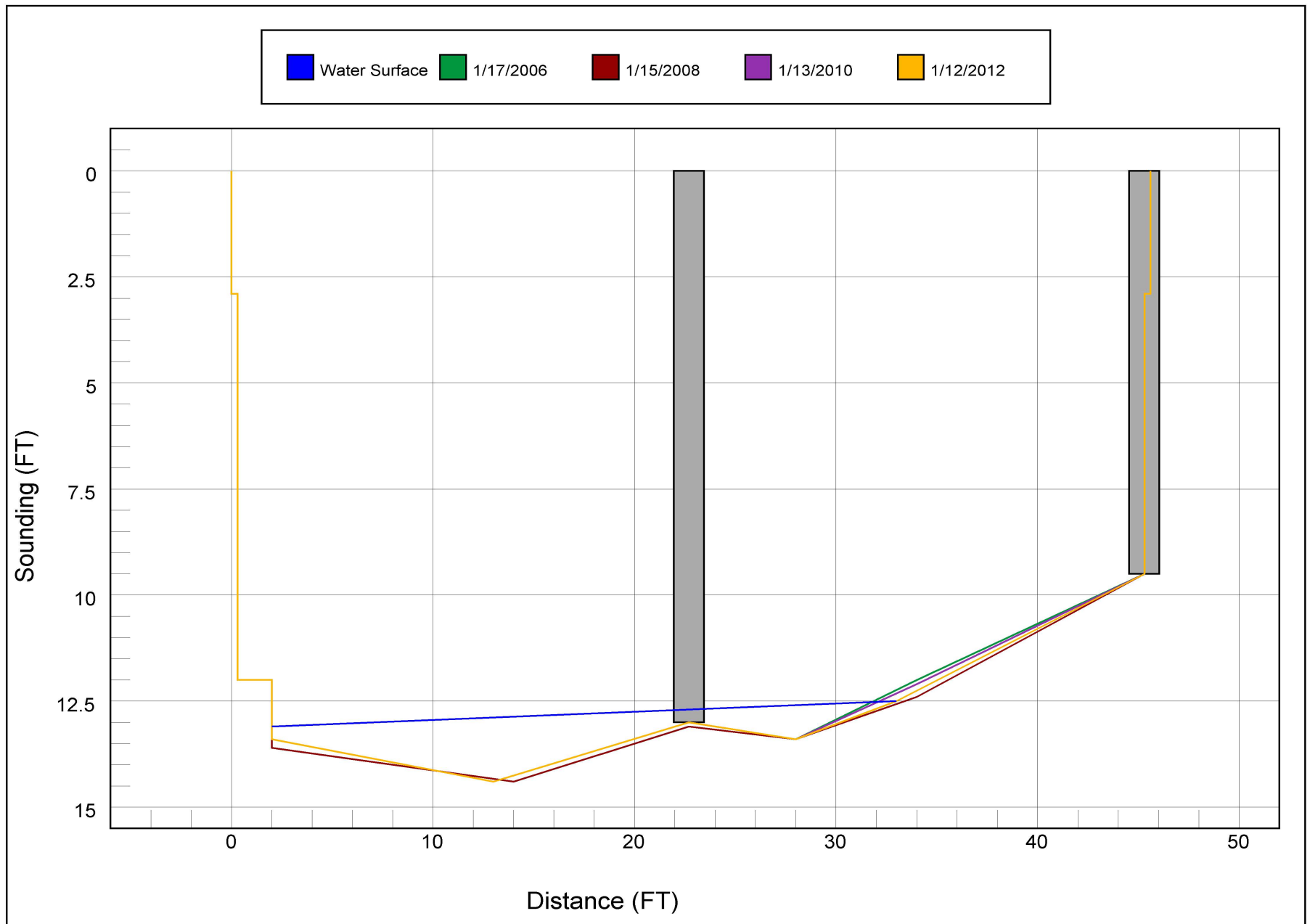
Record sounding from top of rail. Other location if needed: _____

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	0	TOP OF RAIL			
0	2.9	TOP OF FF			
0.3	2.9	TOP OF FF			
0.3	5.2	TOP OF CAP			
0.3	12	TOP OF CONCRETE			
2	12	TOP OF CONCRETE			
2	13.1	WS WE			
2.01	13.4	FACE OF CONCRETE	2.01	13.7	FACE OF CONCRETE
13	14.4	BED			
22.7	13	TEMPORARY. BENT	22.7	13.5	TEMPORARY. BENT
28	13.4	BED			
33	12.5	WS WE			
45.3	9.5	FACE OF ABUTMENT	45.3	11.1	FACE OF ABUTMENT
45.31	5.2	TOP OF CAP			
45.32	2.9	TOP OF FF			
45.6	2.9	TOP OF FF			
45.61	0	TOP OF RAIL			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

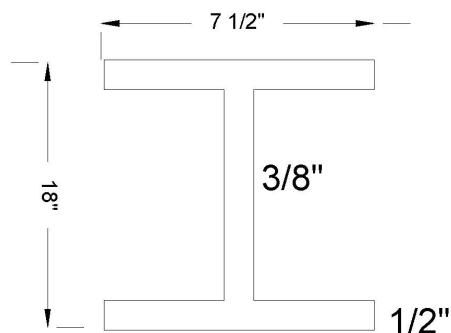


Bridge Inspection Field Sketch

Deck Width/Out to Out	20.0ft	Wearing Surface	0.167ft
Between Rails	19.917ft	Median Width	
Curb Height	0.667ft	Median Height	
Top Rail to Deck/Wearing Surface	2.750ft	Left Guardrail Width	
Clear Roadway	19.250ft	Right Guardrail Width	
Left Bridge Rail	Type 22	Right Bridge Rail	Type 22

Measurements for Span #	1		
Deck Thickness	0.312	Left Overhang	0.959
Top of Rail to Bottom of Beam	5.083	Right Overhang	0.959

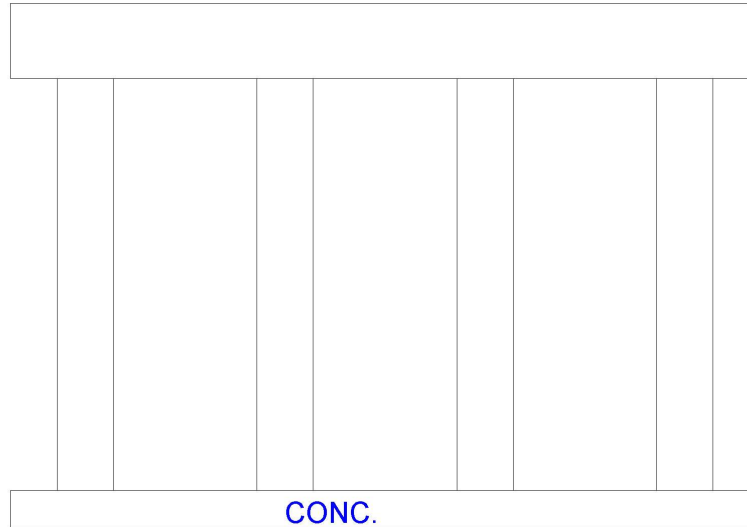
Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.583ft	
2	Steel I Beam	2.583ft	
3	Steel I Beam	2.583ft	
4	Steel I Beam	2.583ft	
5	Steel I Beam	2.583ft	
6	Steel I Beam	2.583ft	
7	Steel I Beam	2.583ft	
8	Steel I Beam		



2 5/8" X 10" DIAPH. @ 1/3 PTS.

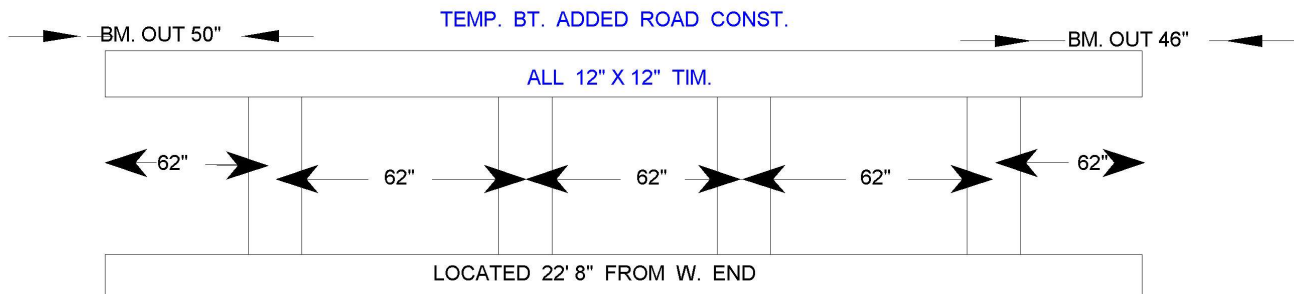
Title		Description	
TS		SUPER VERIFIED 1/12/12 DWELBORN	
Bridge No:	130164	Drawn By:	DCW
		Date:	01/15/2008
		File Name:	S0126000509

Bridge Inspection Field Sketch



Abutment #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	20ft Long	0.833ft Wide	0.959ft High
Left Overhang	1.333ft	Lt Cap/Beam Overhang	.917ft
Right Overhang	1.5ft	Rt Cap/Beam Overhang	.959ft
Sill - Spread			
Sill Size			

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	5' 8"		9 1/2'	9 1/2'	Vertical
2	Wood or Timber	Post and Sills	6' 0"		9 1/2'	9 1/2'	Vertical
3	Wood or Timber	Post and Sills	5' 6"		9 1/2'	9 1/2'	Vertical
4	Wood or Timber	Post and Sills			9 1/2'	9 1/2'	Vertical



Title		Description	
SUB 1		VERIFIED 1/12/12 J. FAULKNER	
Bridge No:	130164	Drawn By:	G.R.R.
Date:	01/15/2008	File Name:	S0130000504

Bridge Inspection Field Sketch

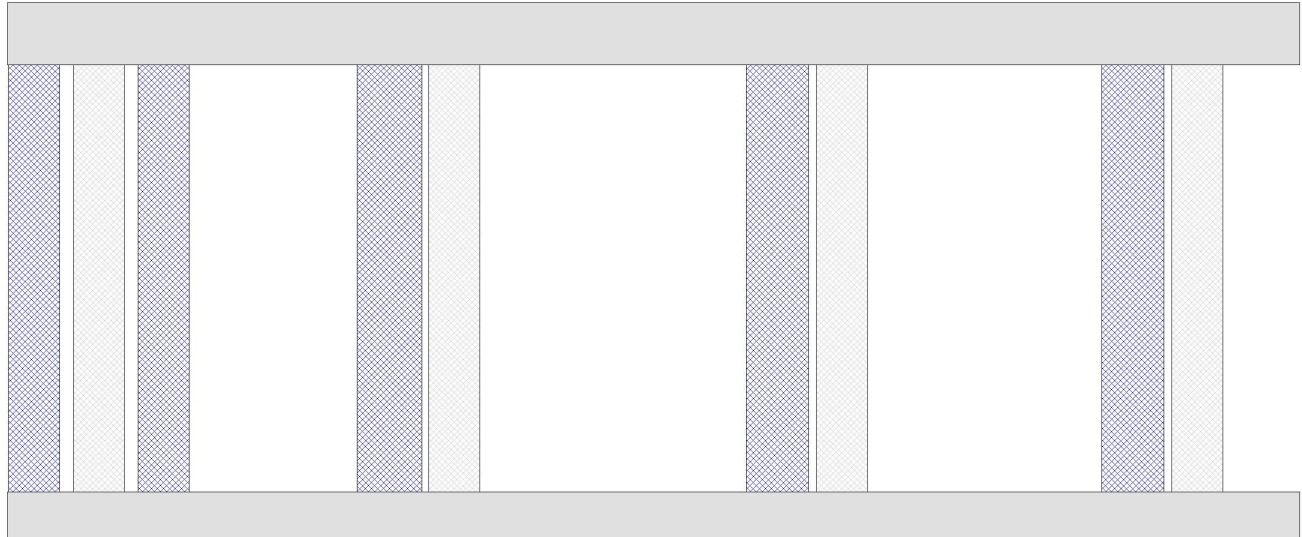


Roadway	18ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

VERIFIED 1/12/12 J. FAULKNER

Title APP.		Description APP. RDWY.	
Bridge No: 130164	Drawn By: G.R.R.	Date: 01/15/2008	File Name: S0126000512

Bridge Inspection Field Sketch



Cap Information			Material Timber							
Length 20 ft.	Width 0.833 ft.	Height 0.959 ft.	Left Overhang .417 ft.	Right Overhang 1.333 ft.	Left Beam to End of Cap. .959 ft.	Right Beam to End of Cap. .959 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Timber	1 ft.	.792 ft.	.792 ft.		Vertical	No	Yes	No	No
2	Timber	1 ft.	.792 ft.	.792 ft.		Vertical	No	No	No	No
3	Timber	3.5 ft.	.792 ft.	.792 ft.		Vertical	No	Yes	No	No
4	Timber	1 ft.	1 ft.	1 ft.		Vertical	No	Yes	No	No
5	Timber	5 ft.	.792 ft.	.792 ft.		Vertical	No	No	No	No
6	Timber	1 ft.	.958 ft.	.958 ft.		Vertical	No	Yes	No	No
7	Timber	4.5 ft.	.792 ft.	.792 ft.		Vertical	No	No	No	No
8	Timber	1 ft.	.958 ft.	.958 ft.		Vertical	No	Yes	No	No
9	Timber		.792 ft.	.792 ft.		Vertical	No	No	No	No

Bent/Abutment #: 2 Similar Bents: **VERIFIED 1/12/12 J. FAULKNER**

Title SUB 2		Description SUB AB 2	
Bridge No: 130164	Drawn By: G.R.R	Date: 01/15/2008	File Name: S0130000505



LOOKING EAST



LOOKING DOWNSTREAM



LOOKING UPSTREAM



LOOKING UPSTREAM



LOOKING DOWNSTREAM



LOOKING WEST



BOTTOM VIEW LOOKING WEST