



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS... POSTS, BEAM ENDS
(PMN'S) ISSUED... STEEL RISERS AT BOTH PIERS...

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY SURRY

BRIDGE NUMBER 850322

INSPECTION CYCLE 2 YRS

ROUTE SR1622

ACROSS STEWARTS CREEK

M.P. 0

LOCATION .4 M.I.E. JCT. SR1618

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAPS/TIM.POST&CONC.SILLS

SPANS 1 @ 25'-6, 1 @ 45', 1 @ 25'-6

LONGITUDE 80° 42' 39.4"

LATITUDE 36° 31' 38.2"

PRESENT CONDITION POOR

INVENTORY RATING

INSPECTION DATE 09/26/2011

OPERATING RATING

PRESENT POSTING SV 16 TTST 19

SV 16 TTST 19

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELINEATORS, (2) ONE LANE BRIDGE



WEST TO EAST

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No

WEIGHT LIMIT

No

DELINEATORS

No

NARROW BRIDGE

No

ONE LANE BRIDGE

No

LOW CLEARANCE

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

Update Date: 12/16/2011

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE 850322
 (8) STRUCTURE NUMBER(FEDERAL) 000000001710322
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31016220
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1
 (3) COUNTY CODE 171 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - STEWARTS CREEK
 (7) FACILITY CARRIED SR1622
 (9) LOCATION .4 M.I.E.JCT.SR1618
 (11)MILEPOINT 0
 (16)LAT 36° 31' 38.2" (17)LONG 80° 42' 39.4"
 (98)BORDER BRIDGE STATE CODE PCT SHARE
 (99)BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 16.9
 STATUS = Structurally Deficient

CLASSIFICATION CODE

(112)NBIS BRIDGE SYSTEM - YES
 (104)HIGHWAY SYSTEM Is not on NHS 0
 (26) FUNCTIONAL CLASS - Local 09
 (100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101)PARALLEL STRUCTURE - No Parallel Structure N
 (102)DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103)TEMPORARY STRUCTURE - Temporary Structure/Conditions T
 (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
 TYPE - Stringer Multibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 000
 (45) NUMBER OF SPANS IN MAIN UNIT 3
 (46) NUMBER OF APPROACH SPANS
 (107)DECK STRUCTURE TYPE - 8 CODE
 (108)WEARING SURFACE / PROTECTIVE SYSTEM :
 (A) TYPE OF WEARING SURFACE - CODE
 (B) TYPE OF MEMBRANE - CODE
 (C) TYPE OF DECK PROTECTION - CODE

CONDITION CODE

(58) DECK 7
 (59) SUPERSTRUCTURE 4
 (60) SUBSTRUCTURE 4
 (61) CHANNEL & CHANNEL PROTECTION 7
 (62) CULVERTS N

LOAD RATING AND POSTING CODE

(31) DESIGN LOAD HS 20+MOD 6
 (63) OPERATING RATING METHOD - No Rating Analysis Performed
 (64) OPERATING RATING - HS-26 546
 (65) INVENTORY RATING METHOD - No Rating Analysis Performed
 (66) INVENTORY RATING - HS-20 536
 (70) BRIDGE POSTING - Posting Required 0
 (41) STRUCTURE OPEN, POSTED, OR CLOSED P
 DESCRIPTION - Posted for Load

AGE AND SERVICE

(27) YEAR BUILT 1962
 (106)YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Highway
 UNDER - Waterway CODE 15
 (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 800
 (30) YEAR OF ADT 1994 (109) TRUCK ADT PCT 6%
 (19) BYPASS OR DETOUR LENGTH 7 MI

APPRAISAL CODE

(67) STRUCTURAL EVALUATION 4
 (68) DECK GEOMETRY 2
 (69) UNDERCLEARANCES, VERTI & HORIZ N
 (71) WATERWAY ADEQUACY 7
 (72) APPROACH ROADWAY ALIGNMENT 7
 (36) TRAFFIC SAFETY FEATURES 0000
 (113)SCOUR CRITICAL BRIDGES U

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 45 FT
 (49) STRUCTURE LENGTH 96 FT
 (50)CURB OR SIDEWALK: LEFT .3 FT RIGHT .3 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 19.2 FT
 (52) DECK WIDTH OUT TO OUT 20.3 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 20 FT
 (33) BRIDGE MEDIAN - No Median CODE 0 FT
 (34) SKEW 30° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 19.2 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 000.0 FT
 (55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
 (56) MIN LAT UNDERCLEAR LT REF - 000 FT

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 1600 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 09/26/2011
 (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

NAVIGATION DATA

(36) 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 INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 850322 COUNTY SURRY ROUTE SR1622 OVER STEWARTS CREEK
 STRUCTURE TYPE TIMBER FLOOR ON I-BEAMS
 ROUTE ORIENTATION W - E SPANS 1 @ 25'-8.1 @ 45'.1 @ 25'-6

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.	a. WATERWAY	G	
1. WEARING SURFACE			F		b. ALIGNMENT	G	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE				c. SCOUR	G	
	b. TIMBER	3	G		d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
	c. STEEL PLANK			50. APPROACH ROADWAY CONDITION	G		
	d. OPEN GRID			51. APPROACH SLABS			
3. RAILING	a. CONCRETE			52. PAINT SYSTEM	CODE	A	P
	b. TIMBER		F	53. UTILITIES			
	c. ALUMINUM			54. RESPONSE TO LIVE LOAD	F		
	d. STEEL			55. ESTIMATED REMAINING LIFE	12		
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			F				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60. REGULATORY SIGN NOTICE ISSUED	NO		
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)	12		
	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)			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			F	b. SUPERSTRUCTURE	ITEM 59	5	
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	4	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			F	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)			F	a. WATERWAY ADAQUACY	7		
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	b. APPR. RDWY. ALIGNMENT	7		
17. MOVABLE SPAN MACHINERY							
				72. FIELD SCOUR EVALUATION			
				L			
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)							
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		F	USE OF INSP. ACCESSIBILITY EQUIPMENT			
	b. PILES, POST, SILLS, & BRACING		F	SNOOPER (CODE S, 4, OR N)	HRS	NO	
	c. BULKHEADS, WING'S, & TIE BACKS		F	LADDER	NO		
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS			BUCKET TRUCK	NO		
	b. ABUT. & BENT COL'S BREASTWALLS			BOAT	NO		
	c. ABUT. & INT. BENT PILES			OTHER	NO		
	d. BACKWALLS, WING'S, RETAIN. WALLS		F				
	e. ABUT. & BENT FOOTINGS & SILLS		F				
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		P	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:	<i>Dr H</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 Inspection & Analysis</u>	
Team Leader MAX FORD			
Assisted By RAP			
Item No.	Grade		
3b	F	LT. RAIL POST NUMBER (12) IS MISSING...	
4	F	FEW AREAS OF WHEELGUARDS WEATHERED AND CHECKING...	
10	F	TEMPORARY REPAIRS TO END OF BEAMS (1), (2) AND (3) AT ABUT. (A)...SEE SKETCH	
		RUST AND SCALE ALONG ALL BEAMS WITH (+/- 1/16") LOSS ALONG TOP AND BOTTOM FLANGES...	
10A	NO	NO CURVED GIRDERS...	
12	F	EAST FACE OF PIER (1)... BRACING IS DECAYED AT BASE OF P-1	
15	F	RUST AND SCALE AT BEARINGS.	
52	P	RUST AND SCALE WITH (+/- 1/16 INCH) LOSS TO FLANGES ALONG ALL BEAMS...	
35a	F	(+/- 20) PERCENT DECAY IN LT. END OF ABUT. (A) CAP EXTENDS UP TO EDGE OF BEAM AT THIS TIME...	
35b	F	PIER (1), P-2 AND P-3 ARE SUPPLEMENTED... SEE SKETCH PIER (2), P-1 IS REPLACED WITH A (10 X 12) INCH TIMBER... BOTTOM OF CROSS BRACE, (EAST) FACE OF PIER (1) AT BASE OF P-1 IS DECAYED... APPROX. 3 LF P-1 OF PIER (2) IS SUPPLEMENTED WITH A (10 X 12) INCH TIMBER...	
35c	F	(4) BOARDS DECAYED AT (NW) BULKHEAD... (+/- 25 SF)	
36d	F	SURFACE WEAR ALONG BASE, EAST FACE OF PIER (1) ENCASEMENT... (+/- 20 SF)	

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		
37a	P	COMPLETE LOSS OF SECTION TO LOWER (+/- 3") OF WEB OF STL. RISER, SPAN (A) AT POIER (1), BELOW BEAM (2)... AREA IS (+/- 18") LONG. SEE SKETCH, (PMN) COMPLETE LOSS OF SECTION TO STL. RISER AT PIER (2), FROM RT. SIDE OF BEAM (1) TO BELOW BEAM (2)... (+/- 3' L X 3" HIGH)... SEE SKETCH, (PMN)	
54	F	RUST AND SCALE THROUGHOUT ALONG BOTH RISERS... DECK IS NOISY UNDER LOAD...	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 850322

County SURRY

Date: 09/26/2011

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	3	WEARING SURFACE BROKEN AT (NE) CORNER OF SPAN (A) AT PIER (1)... APPROX. 27 SF	
3316	Maint to Timber Handrail	LF	6	LT. RAIL POST NUMBER (12) IS MISSING...	
3342	Clean and Paint Structural Steel	SF	3000	RUST AND SCALE WITH (+/- 1/16 INCH) LOSS TO FLANGES ALONG ALL BEAMS...	
3344	Repair / Replace Timber Substructure Components	LF	1	(+/- 20) PERCENT DECAY IN LT. END OF ABUT. (A) CAP EXTENDS UP TO EDGE OF BEAM AT THIS TIME...	
3344	Repair / Replace Timber Substructure Components	LF	3	BOTTOM OF CROSS BRACE, (EAST) FACE OF PIER (1) AT BASE OF P-1 IS DECAYED... APPROX. 3 LF	
3346	Repair / Maintain Timber Wings & Blkhds	SF	25	(4) BOARDS DECAYED AT (NW) BULKHEAD... (+/- 25 SF)	
3348	Maintain Concrete Substructure Components	LF	20	SURFACE WEAR ALONG BASE, EAST FACE OF PIER (1) ENCASEMENT... (+/- 20 SF)	
 3354	Maintain Steel Substructure Components	LF	5	COMPLETE LOSS OF SECTION TO LOWER (+/- 3") OF WEB OF STL. RISER, SPAN (A) AT PIER (1), BELOW BEAM (2)... AREA IS (+/- 18") LONG. SEE SKETCH, (PMN) COMPLETE LOSS OF SECTION TO STL. RISER AT PIER (2), FROM RT. SIDE OF BEAM (1) TO BELOW BEAM (2)... (+/- 3' L X 3" HIGH)... SEE SKETCH, (PMN) SKETCHES... LOSS OF SECTION TO STEEL RISERS AT BOTH PIERS...	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 850322

County SURRY

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

MMS Code	MMS Description	Quantity
3354	Maintain Steel Substructure Components	5 LF
Location:		
Pier Cap	Bent/Span No. 1	STEEL RISERS AT BOTH PIERS...
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
09/28/2011	MAX FORD	ROBERT PIERCE
Details		
COMPLETE LOSS OF SECTION TO LOWER (+/- 3") OF WEB OF STL. RISER, SPAN (A) AT PIER (1), BELOW BEAM (2)... AREA IS (+/- 18") LONG. SEE SKETCH, (PMN) COMPLETE LOSS OF SECTION TO STL. RISER AT PIER (2), FROM RT. SIDE OF BEAM (1) TO BELOW BEAM (2)... (+/- 3' L X 3" HIGH)... SEE SKETCH, (PMN) SKETCHES... LOSS OF SECTION TO STEEL RISERS AT BOTH PIERS...		



WEARING SURFACE BROKEN AT (NE) CORNER OF SPAN (A) AT PIER (1)... APPROX. 27 SF



WEST FACE OF PIER (1), P-2 AND P-3 ARE SUPPLEMENTED... SEE SKETCH



TEMPORARY REPAIRS TO END OF BEAMS (1), (2) AND (3) AT ABUT. (A)...SEE SKETCH



(4) BOARDS DECAYED AT (NW) BULKHEAD... (+/- 25 SF)



(+/- 20) PERCENT DECAY IN LT. END OF ABUT. (A) CAP EXTENDS UP TO EDGE OF BEAM AT THIS TIME...



COMPLETE LOSS OF SECTION TO LOWER (+/- 3") OF WEB OF STL. RISER, SPAN (A) AT PIER (1), BELOW BEAM (2)... AREA IS (+/- 18") LONG. SEE SKETCH, (PMN)



RUST AND SCALE WITH (+/- 1/16 INCH) LOSS TO FLANGES ALONG ALL BEAMS...



SURFACE WEAR ALONG BASE, EAST FACE OF PIER)1) ENCASEMENT... (+/- 20 SF)



LT. RAIL POST NUMBER (12) IS MISSING...



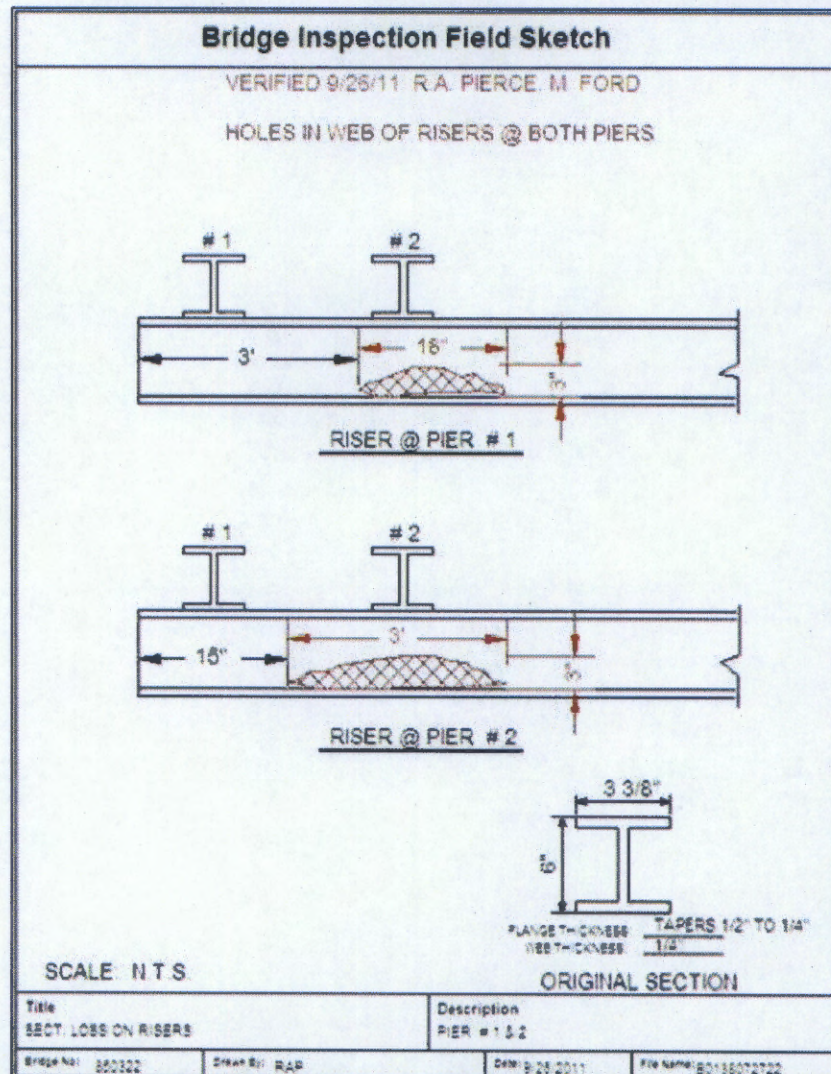
COMPLETE LOSS OF SECTION TO STL. RISER AT PIER (2), FROM RT. SIDE OF BEAM (1) TO BELOW BEAM (2)... (+/- 3' L X 3" HIGH)... SEE SKETCH, (PMN)



BOTTOM OF CROSS BRACE, (EAST) FACE OF PIER (1) AT BASE OF P-1 IS DECAYED... APPROX. 3 LF



P-1 OF PIER (2) IS REPLACED WITH A (10 X 12) INCH TIMBER... SEE SKETCH



SKETCHES... LOSS OF SECTION TO STEEL RISERS AT BOTH PIERS...

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 12/16/2011

COUNTY : SURREY	DIVISION : 11	DISTRICT : 1	STRUCTURE NUMBER : 850322	LENGTH : 96 FEET
ROUTE CARRIED : SR1622		FEATURE INTERSECTED : STEWARTS CREEK		
LOCATED : .4 MI.E.JCT.SR1618		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 800 1994	RAIL TYPE : LT 227 RT 227
BUILT : 1962	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : HS 20+MOD
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 120
LANES : ON 2 UNDER				
NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 15 FT	WATER DEPTH : 2 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS				
SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAPS/TIM.POST&CONC.SILLS				
SPANS : 1 @ 25'-6,1 @ 45',1 @ 25'-6				
BEAMS OR GIRDERS : SPANS 1&3:9 LINES 12 I-BEAMS;SPAN 2:8 LINES 18 I-BEAMS				
FLOOR :		ENCROACHMENT :	DECK (OUT TO OUT) : 20.3 FT	
CLEAR ROADWAY : 19.2 FT		BETWEEN RAILS : 19.9 FT	SIDEWALK OR CURB : LT .3 FT RT .3 FT	
VERT.CL.OVER : 999.9 FT				
INV.RTG. : HS-20	OPE.RTG. : HS-26	CONTR.MEMBER : IntBm# 3SpA,Int. Bm#3SpB	POSTED : SV 17	TTST 21 DATE 12/16/11
SYSTEM : Secondary S.R. Route		GREEN LINE ROUTE : N		
UNDER ROUTES AND CLEARANCES				
REMARKS :				

Structure Data Worksheet

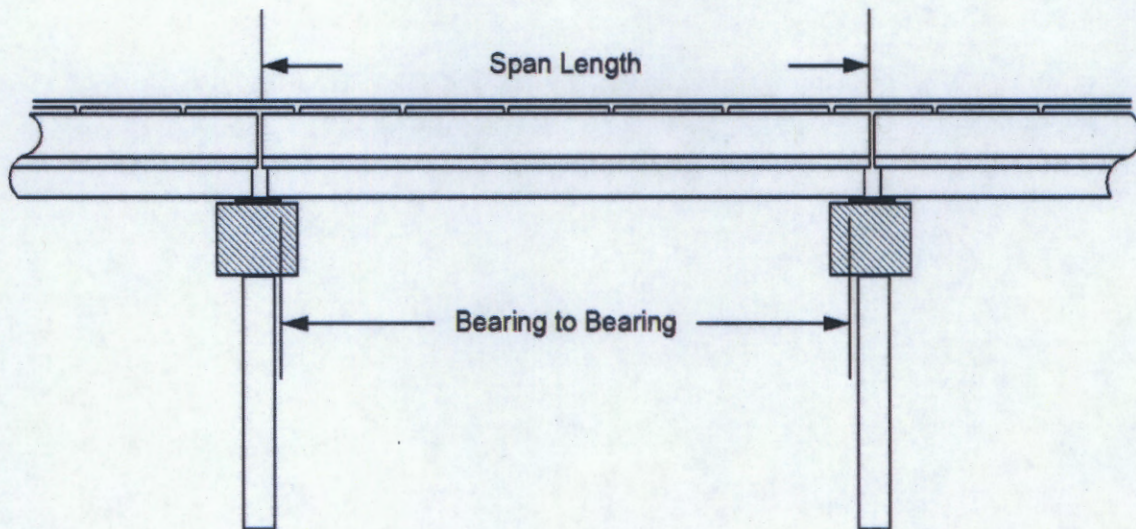
Spans

County: SURRY

Structure No: 850322

Date: 09/26/2011

Inspected By: MF



Span No	Span Length	Bearing to Bearing	Comments
1	25.5 ft.	24.25 ft.	
2	45.0 ft.	44.583 ft.	
3	25.5 FT.	24.25 ft.	FACE OF ABUT. CAP TO FACE OF ABUT. CAP = 94.333

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 850322 County: SURRY Date: 09/26/2011 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	3	TOP OF FILLFACE			
0.28	3	TOP OF FILLFACE			
0.29	5.3	TOP OF CAP			
0.3	8	FACE OF ABUT	0.3	10.6	FACE OF ABUT
8	10.1	SLOPE			
22.99	16.8	WSWE			
23	17.2	PIER 1	23	16.8	PIER 1
42	18.4	BED FLOW SOUTH			
62	16.8	WSWE			
70	11.2	PIER 2	70	11.4	PIER 2
83	4.7	SLOPE			
95.7	5.3	FACE OF ABUT	95.7	5.5	FACE OF ABUT
95.71	5.3	TOP OF CAP			
95.72	3	TOP OF FILLFACE			
96	3	TOP OF FILLFACE			

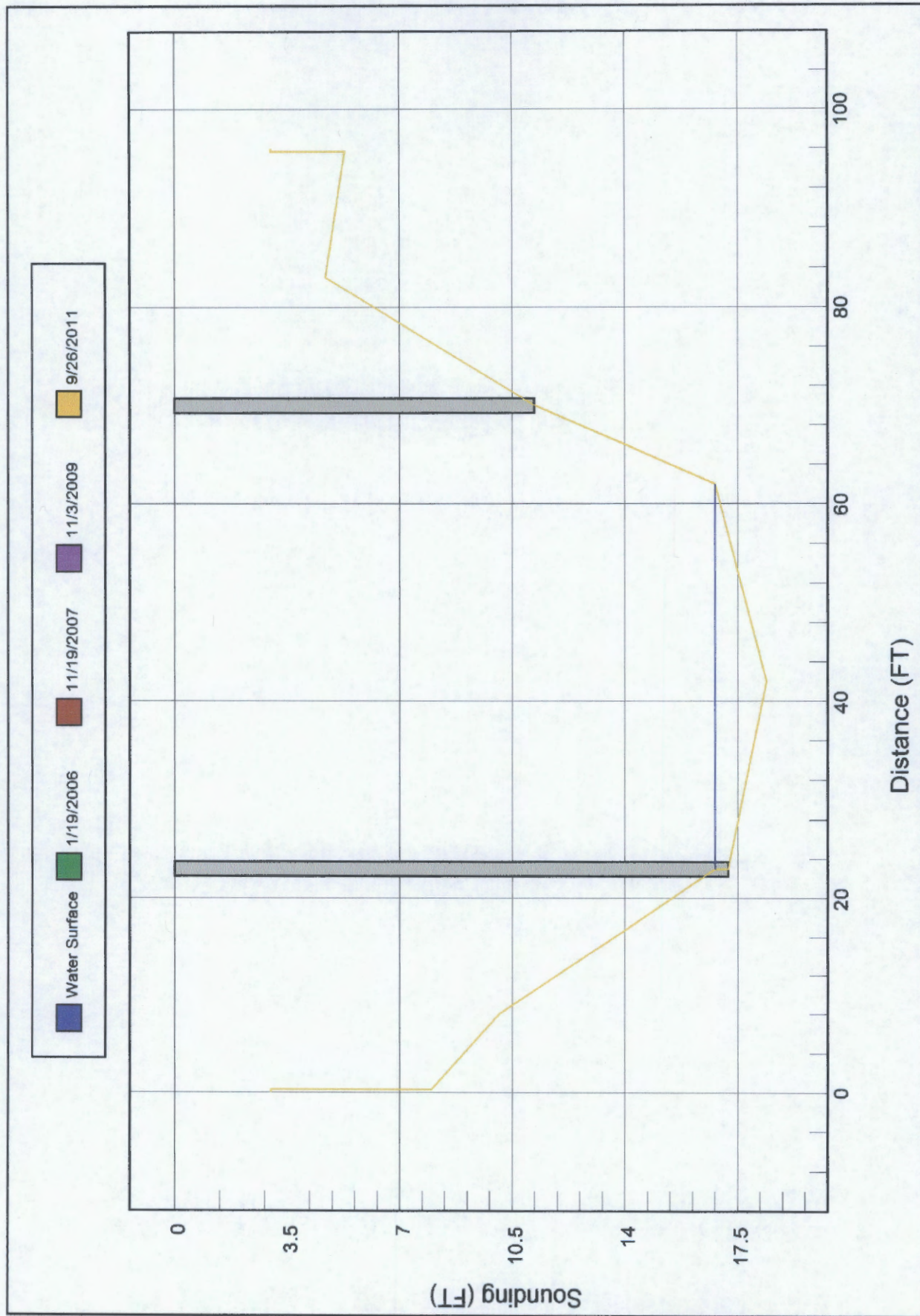
Bridge: 850322

County SURRY

Date: 09/26/2011

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD



S.R. 1622

LOOKING EAST

Roadway	20ft Wide	2 Paved Lanes	Looking East
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	2ft Wide		2ft Unpaved
Left Guardrail			
Right Guardrail			

Title

APPR. RDWY.

Description

APPR. RDWY.

Bridge No: 850322

Drawn By: RAP

Date: 01/19/2006

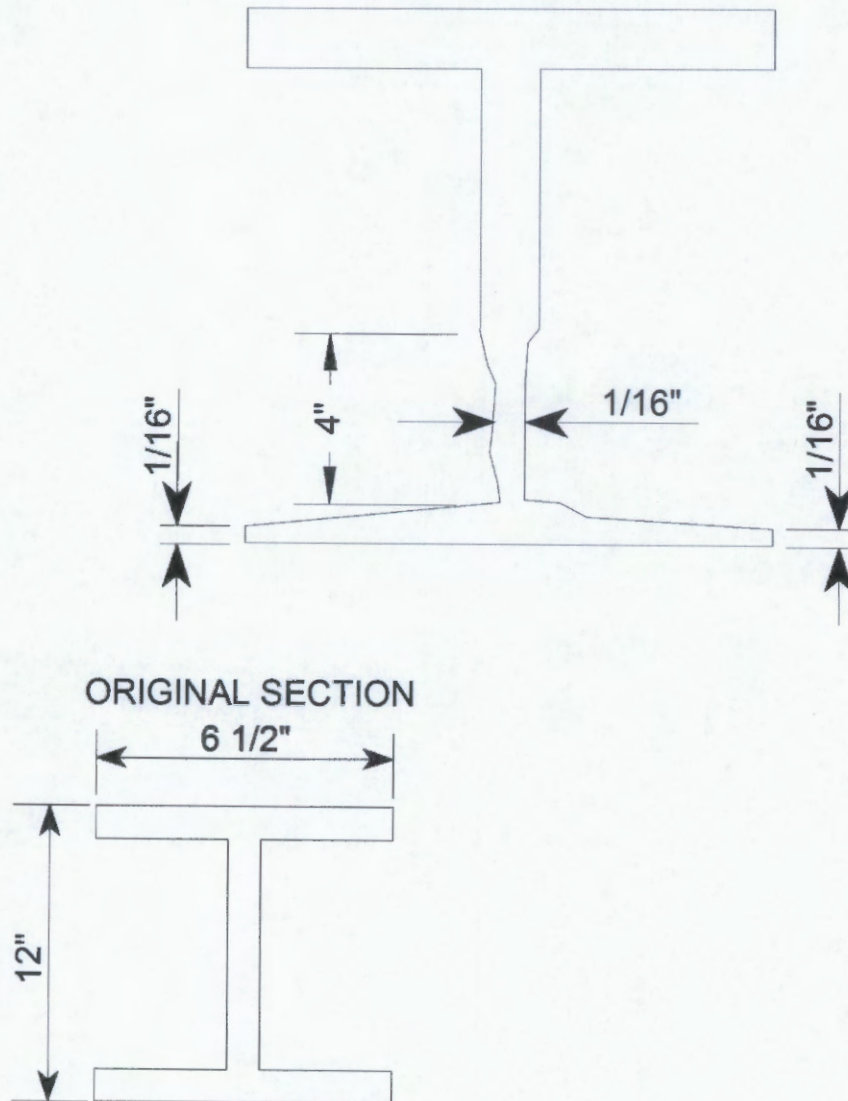
File Name: S0138000804

Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD

SECT. LOSS OF BM. # 1 - 3 @ ABUT. # 1

BM. ENDS REPAIRED W/3/8" X 3" X 36" STEEL PLATES (11/3/09)



FLANGE THICKNESS: 3/8"

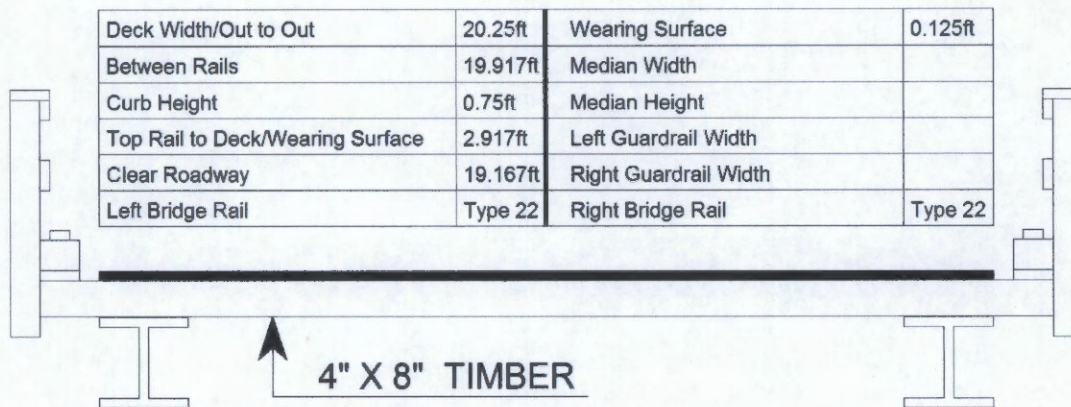
WEB THICKNESS: 1/4"

SCALE: N.T.S.

Title		Description	
SECT. LOSS		BM. SECT. LOSS	
Bridge No: 850322	Drawn By: RAP	Date: 11/16/2007	File Name: S0138002578

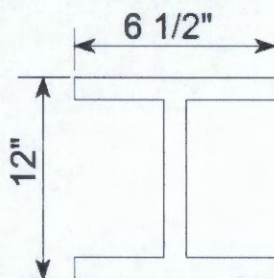
Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD



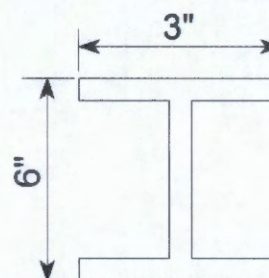
Measurements for Span #	1		
Deck Thickness	0.333	Left Overhang	1
Top of Rail to Bottom of Beam	5.25	Right Overhang	1

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	2.25ft	SPAN 1 and 3 SIMILAR.
2	Steel I Beam	2.25ft	
3	Steel I Beam	2.25ft	
4	Steel I Beam	2.25ft	
5	Steel I Beam	2.25ft	
6	Steel I Beam	2.25ft	
7	Steel I Beam	2.25ft	
8	Steel I Beam	2.25ft	
9	Steel I Beam		



FLANGE THICKNESS: 3/8"
WEB THICKNESS: 1/4"

SPAN # 1 & 3 BMS.



FLANGE THICKNESS: TAPERS 1/2\" TO 1/4"
WEB THICKNESS: 1/4"

SPAN # 1 & 3 RISERS @ PIERS

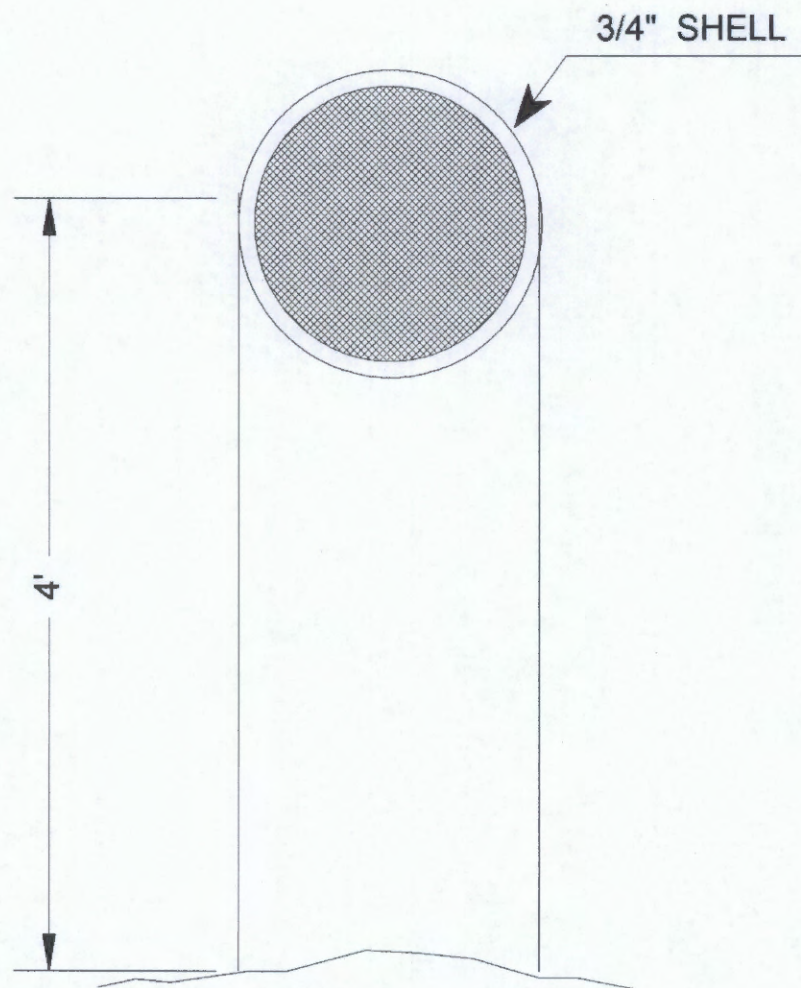
Title		Description	
SUPER.		DECK SECTION SPAN 1 & 3	
Bridge No: 850322	Drawn By: RAP	Date: 01/19/2006	File Name: S0138000805

Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD

DECAY IN PILE # 3 @ PIER # 1

12" X 12" POST PLACED ON RT. SIDE OF THIS PILE (11/3/09)

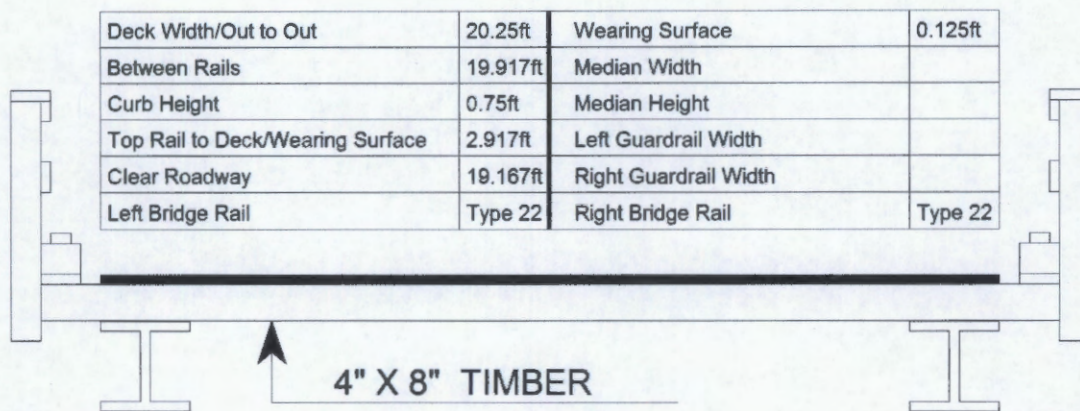


SCALE: N.T.S.

Title		Description	
PILE DECAY		PILE # 4 @ PIER # 1	
Bridge No: 850322	Drawn By: RAP	Date: 11/16/2007	File Name: S0138002579

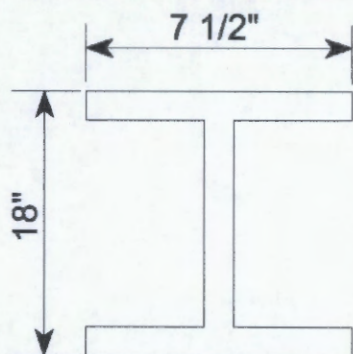
Bridge Inspection Field Sketch

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Measurements for Span #	2		
Deck Thickness	0.333	Left Overhang	1
Top of Rail to Bottom of Beam	5.25	Right Overhang	1

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		



FLANGE THICKNESS: 1/2"

WEB THICKNESS: 3/8"

Title

SUPER. 2

Description

DECK SECTION SPAN 2

Bridge No: 850322

Drawn By: RAP

Date: 01/19/2006

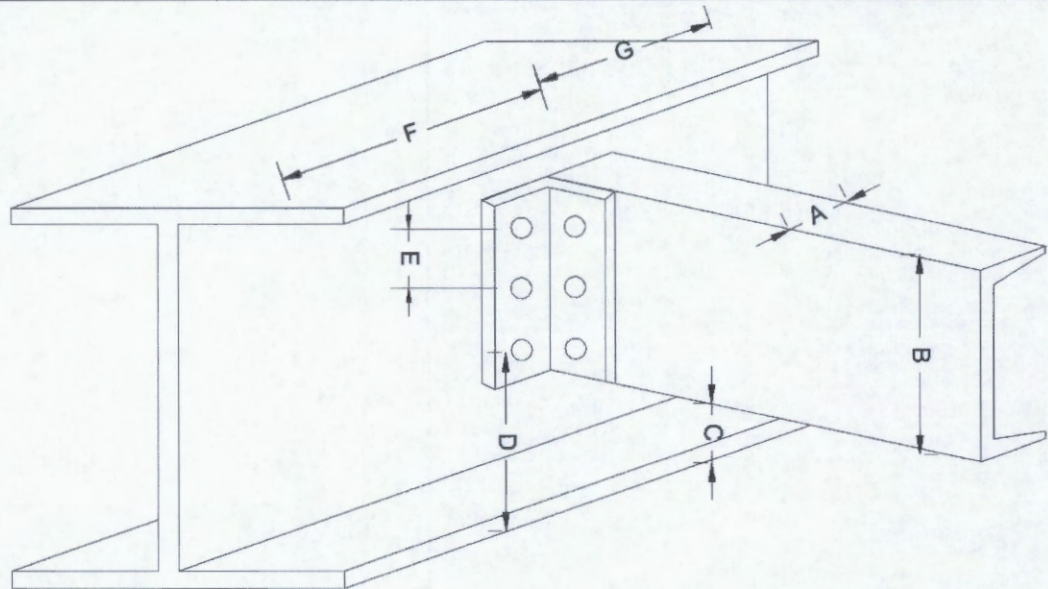
File Name: S0138000806

Bridge Inspection Field Sketch

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SPAN: 2

LOCATION: 1/3 POINTS



SPAN	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	BOLT SIZE
2	2 5/8"	10"	4"	6 1/2"	2 1/2"	15'	15'	3/4"

Title

DIAPH.

Description

DIAPH.

Bridge No: 850322

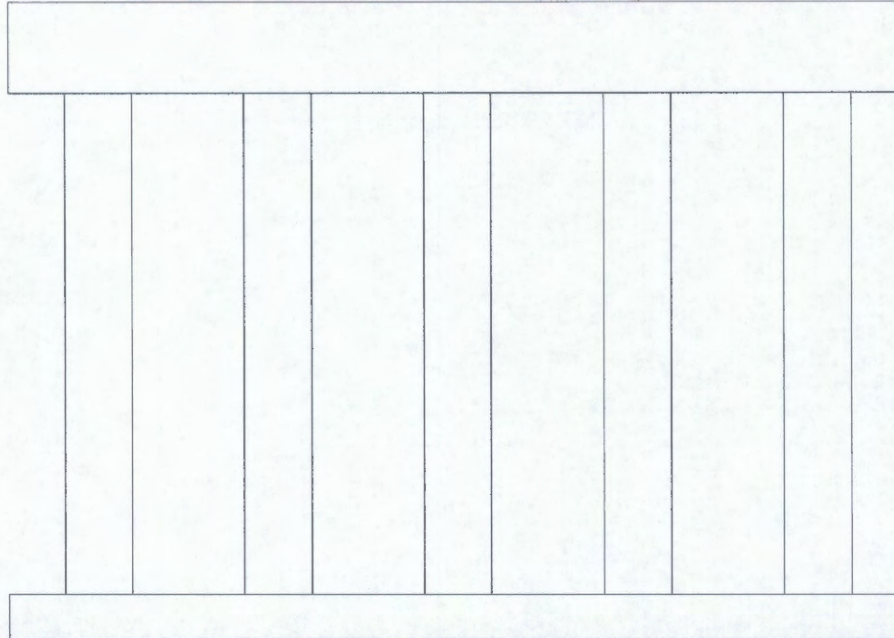
Drawn By: RAP

Date: 01/19/2006

File Name: S0138000807

Bridge Inspection Field Sketch

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Abutment #	1	Abutment 2 similar	
Cap - Beam Type (Wood or Steel)			
Cap Size	22ft Long	0.833ft Wide	0.812ft High
Left Overhang	1ft	Lt Cap/Beam Overhang	1ft
Right Overhang	1ft	Rt Cap/Beam Overhang	1ft
Sill - Sill			
Sill Size	22ft Long	0.833ft Wide	0.833ft High

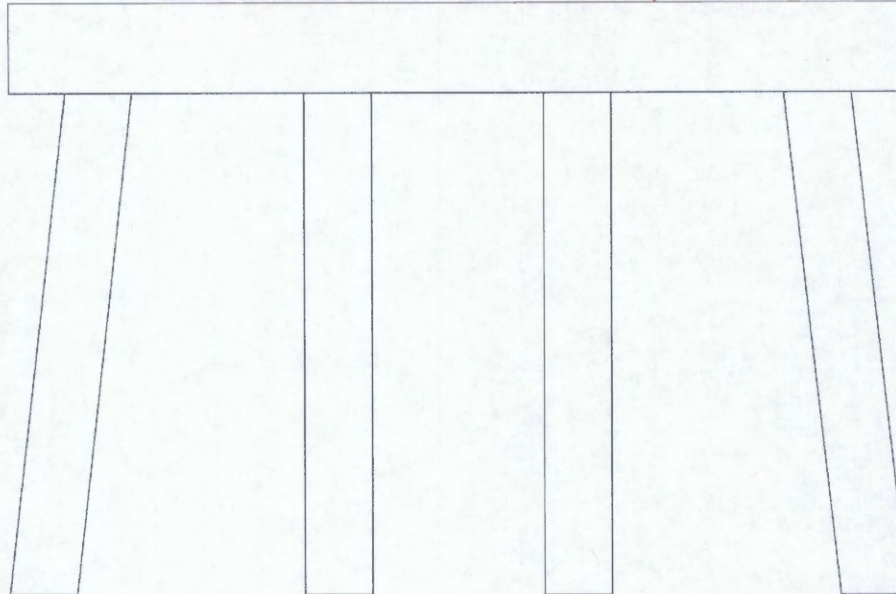
Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Post and Sills	5		0.812	0.812	Vertical
2	Wood or Timber	Post and Sills	5		0.812	0.812	Vertical
3	Wood or Timber	Post and Sills	5		0.812	0.812	Vertical
4	Wood or Timber	Post and Sills	5		0.812	0.812	Vertical
5	Wood or Timber	Post and Sills			0.812	0.812	Vertical

ABUT. # 2 BM. OUT SAME AS ABUT. # 1

Title		Description	
SUBST. 1		ABUTS.	
Bridge No:	850322	Drawn By:	RAP
Date:	01/19/2006	File Name:	S0138000808

Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD



Bent #	1		
Cap - Beam Type (Wood or Steel)			
Cap Size	22.334ft Long	0.833ft Wide	0.833ft High
Left Overhang	1.417ft	Lt Cap/Beam Overhang	1.167ft
Right Overhang	1.417ft	Rt Cap/Beam Overhang	1.167ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6.5		1		Batter Pile
2	Wood or Timber	Pile Bent	6.5		1		Vertical
3	Wood or Timber	Pile Bent	6.5		1		Vertical
4	Wood or Timber	Pile Bent			1		Batter Pile

PILES ENC. IN CONC.

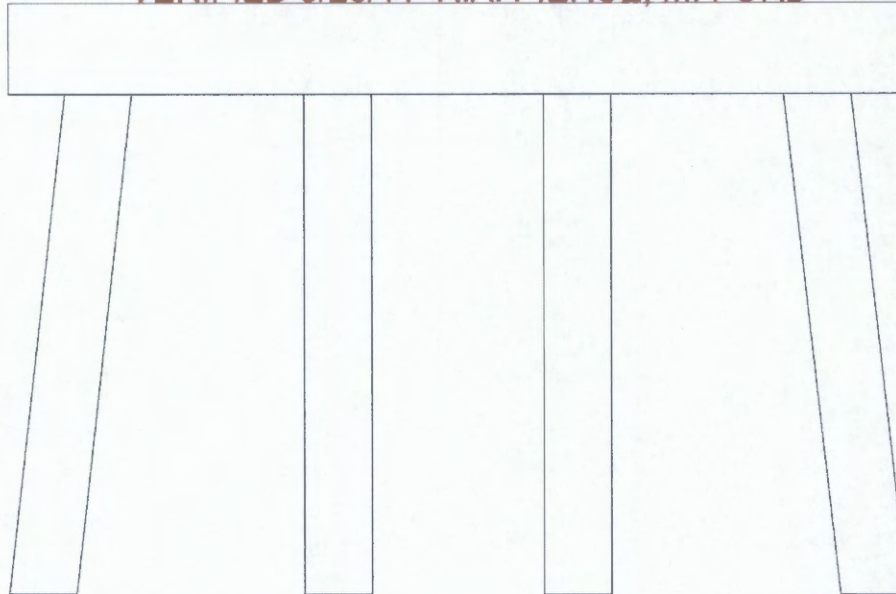
PILE # 2 SUPPLIMENTED W / 12" DIAM. PILE

PILE # 3 SUPPLIMENTED W / 12" X 12" POST (11/4/09)

Title		Description	
SUBST. 2		PIER # 1	
Bridge No:	850322	Drawn By:	RAP
Date:	01/19/2006	File Name:	S0138000809

Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD



Bent #	2		
Cap - Beam Type (Wood or Steel)			
Cap Size	22.334ft Long	0.833ft Wide	0.833ft High
Left Overhang	1.417ft	Lt Cap/Beam Overhang	1.25ft
Right Overhang	1.417ft	Rt Cap/Beam Overhang	1.25ft

Pile #	Material	Pile Type	Spacing	Length	Width/Diam.	Height	Orientation
1	Wood or Timber	Pile Bent	6.5		1	1	Batter Pile
2	Wood or Timber	Pile Bent	6.5		1		Vertical
3	Wood or Timber	Pile Bent	6.5		1		Vertical
4	Wood or Timber	Pile Bent			1		Batter Pile

PILES ENC. IN CONC.

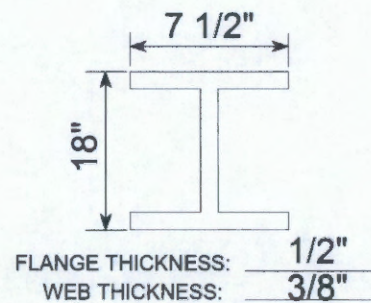
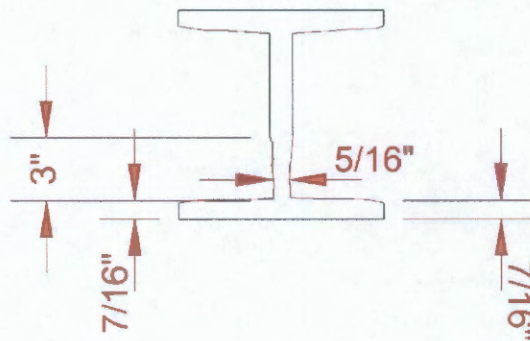
PILE # 1 REPLACED W / 12" X 12" POST

Title		Description	
SUBST. 3		PIER # 2	
Bridge No:	850322	Drawn By:	RAP
		Date:	01/19/2006
		File Name:	S0138000810

Bridge Inspection Field Sketch

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SECT. LOSS FULL LENGTH ON ALL FLANGES
& LOWER 4" OF WEB ON ALL SPAN # 2 BMS.
LOSS EXTENDS FULL LENGTH



SCALE: N.T.S.

ORIGINAL SECTION

Title
SECT. LOSS 2

Description
SPAN # 2

Bridge No: 850322

Drawn By: RAP

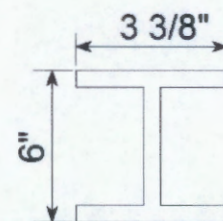
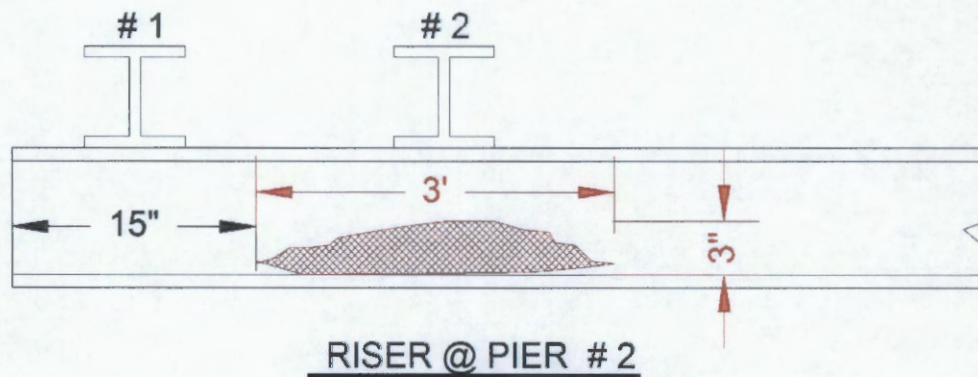
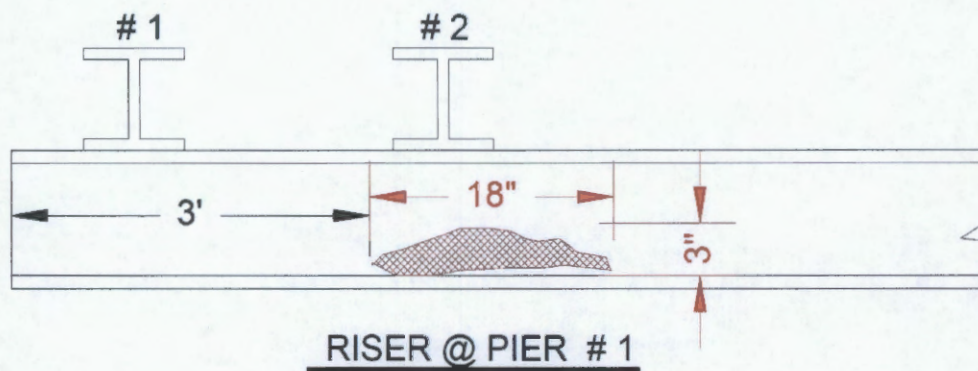
Date: 9/26/2011

File Name: S0138072721

Bridge Inspection Field Sketch

VERIFIED 9/26/11 R.A. PIERCE, M. FORD

HOLES IN WEB OF RISERS @ BOTH PIERS



FLANGE THICKNESS: TAPERS 1/2" TO 1/4"
WEB THICKNESS: 1/4"

SCALE: N.T.S.

ORIGINAL SECTION

Title
SECT. LOSS ON RISERS

Description
PIER # 1 & 2

Bridge No: 850322

Drawn By: RAP

Date: 9/26/2011

File Name: S0138072722



LOOKING WEST



UPSTREAM



DOWNSTREAM



WEST TO EAST



SOUTH PROFILE



NORTH PROFILE



ABUT. (B)



ABUT. (A)