



N.C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MAINTENANCE UNIT

ATTENTION:

[Redacted]

BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY JOHNSTON BRIDGE NUMBER 500085 INSPECTION CYCLE 2 YRS

ROUTE 195 SBL ACROSS BLACK CREEK M.P. 090+500

LOCATION 0.8 MLN JCT US301/701

SUPERSTRUCTURE RC FLOOR ON I-BEAMS

SUBSTRUCTURE EBTS:RC CAP/H-PILES @ 8'CTS;JBTS:RCP&BEAM

SPANS 1@51'6";2@50';1@50'3"

PRESENT CONDITION FAIR INVENTORY RATING HS-23

INSPECTION DATE 10/19/2000 OPERATING RATING HS-38

PRESENT POSTING NP PROPOSED POSTING N.P.

COMPUTER UPDATE 12-27-00 ANALYSIS DATE 12-01-00

POSTING LETTER DATE _____ SPECIAL PERMIT _____

OTHER SIGNS PRESENT 1 DELINEATOR



SIGN NOTICE ISSUED FOR	NUMBER REQUIRED
No WEIGHT LIMIT	
No SPECIAL PERMIT	
No DELINEATORS	
No NARROW BRIDGE	
No ONE LANE BRIDGE	
No LOW CLEARANCE	

Photo Looking North

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 500685
(8) STRUCTURE NUMBER (FEDERAL) 000000001010085
(5) INVENTORY ROUTE (OK/UNDER) - ON = 111000950
(2) STATE HIGHWAY DEPARTMENT DISTRICT 04
(3) COUNTY CODE 101 (4) PLACE CODE
(6) FEATURES INTERSECTED - BLACK CREEK
(7) FACILITY CARRIED - I95 SBL
(9) LOCATION - 0.8 MI. N. JCT US301/701
(11) MILEPOINT 090.500
(16) LATITUDE 35 D 28.5N (17) LONGITUDE 078 D 23.2W
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. 1

SUFFICIENCY RATINGS = 75.9
STATUS = FUNCTIONALLY OBSOLETE

***** CLASSIFICATION *****

(112) NBIS BRIDGE LENGTH - YES
(104) HIGHWAY SYSTEM - NHS ROUTE 1
(26) FUNCTIONAL CLASS - PRINCIPAL ARTERIAL- INTER 11
(100) DEFENSE HIGHWAY - YES DEFENSE HWY 1
(101) PARALLEL STRUCTURE - LF STR OF PARALLEL BRSS L
(102) DIRECTION OF TRAFFIC - 1-WAY TRAFFIC 1
(103) TEMPORARY STRUCTURE - NOT TEMPORARY
(110) DESIGNATED NATIONAL NETWORK - PART OF NETWORK 1
(20) TOLL - ON FREE ROAD 3
(21) MAINTAIN - STATE HIGHWAY AGENCY 01
(22) OWNER - STATE HIGHWAY AGENCY 01
(37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION *****

(58) DECK 5
(59) SUPERSTRUCTURE 6
(60) SUBSTRUCTURE 6
(61) CHANNEL & CHANNEL PROTECTION 8
(62) CULVERTS N

***** LOAD RATING AND POSTING *****

(31) DESIGN LOAD - HS 20+MOD 6
(64) OPERATING RATING - LF HS-38 100
(66) INVENTORY RATING - LF HS-23 141
(70) BRIDGE POSTING - NO POSTING REQUIRED 5
(41) STRUCTURE OPEN, POSTED, OR CLOSED A
DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL *****

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY 3
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(71) WATERWAY ADEQUACY 8
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0111
(113) SCOUR CRITICAL BRIDGES 8

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - REPLACE FOR DEFICIENCY CODE 311
(76) LENGTH OF STRUCTURE IMPROVEMENT 000230 FT
(94) BRIDGE IMPROVEMENT COST \$ 671,000
(95) ROADWAY IMPROVEMENT COST \$ 67,000
(96) TOTAL PROJECT COST \$ 855,000
(97) YEAR OF IMPROVEMENT COST ESTIMATE 1999
(114) FUTURE ADT 043000 (115) YEAR FUTURE ACT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 10/2000 (91) FREQUENCY 24 MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO - NO A)
B) UNDERWATER INSP - NO - NO B)
C) OTHER SPECIAL INSP - NO - NO C)
SCOUR -

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: STEEL
TYPE - STRINGER/MBEAM OR GIRDER CODE 302
(44) STRUCTURE TYPE APPR: OTHER
TYPE - OTHER CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 004
(46) NUMBER OF APPROACH SPANS 0000
(107) DECK STRUCTURE TYPE - CONCRETE C-I-F CODE 1
(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 *****

(27) YEAR BUILT 1955
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON - HIGHWAY
UNDER - WATERWAY CODE 15
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 00
(29) AVERAGE DAILY TRAFFIC 021500
(30) YEAR OF ADT 1999 (109) TRUCK ADT PCT 16
(19) BYPASS, DETOUR LENGTH 01 MI

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 0052 FT
(49) STRUCTURE LENGTH 000202 FT
(50) CURB OR SIDEWALK: LEFT 01.6 FT RIGHT 01.6 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 028.2 FT
(52) DECK WIDTH OUT TO OUT 031.6 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 024 FT
(33) BRIDGE MEDIAN - OPEN MEDIAN CODE 1
(34) SKEW 00 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.2 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
(54) MIN VERT UNDERCLEAR REF - NOT HWY/RR 00 FT 00 IN
(55) MIN LAT UNDERCLEAR RT REF - NOT HWY/RR 99.9 FT
(56) MIN LAT UNDERCLEAR LT 00.0 FT

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - BRG PERMIT NOT REQ CODE 0
(111) PIER PROTECTION - NOT APPLICABLE CODE
(39) NAVIGATION VERTICAL CLEARANCE 000 FT
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0000 FT

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine INSPECTION DATE 10/19/2000
 BRIDGE NO. 500085 COUNTY JOHNSTON ROUTE 195 SBL OVER BLACK CREEK
 STRUCTURE TYPE RC FLOOR ON I-BEAMS YEAR BUILT 1955
 ROUTE ORIENTATION S To N FOR SPAN 1-4 OF 4

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

INSPECTION ITEMS			
DECK ITEMS	GRADE	45 CHANNEL & CHANNEL PROT.	a. WATERWAY b. ALIGNMENT c. SCOUR d. SLOPE PROT., RIP-RAP, DIKES, ETC.
1 WEARING SURFACE	6		8
2 DECK			
NO. OF EA.	a. CONCRETE 04		b. ALIGNMENT 8
TYPE SPN.	b. TIMBER 00		c. SCOUR 8
GRADE	c. STEEL PLANK 00		d. SLOPE PROT., RIP-RAP, DIKES, ETC.
RATES	d. OPEN GRID 00	50 APPROACH ROADWAY CONDITION	6
SI & A ITEM		51 APPROACH SLABS	7
58		52 PAINT SYSTEM CODE A	4
		53 UTILITIES	
3 RAILING		54 RESPONSE TO LIVE LOAD	7
	a. CONCRETE 5	55 ESTIMATED REMAINING LIFE (YEARS)	15
	b. TIMBER		
	c. ALUMINUM		
	d. STEEL 7	60 REGULATORY SIGN NOTICE ISSUED	N
4 CURBS - WHEELGUARDS - PARAPETS - MEDIANS	6	61 PROMPT - ACTION NOTICE ISSUED	N
5 WALKWAYS (ON OR ATTACHED TO STRUCTURE)		62 PRESENTLY POSTED	N
6 DECK EXP	a. STEEL PL. OR FINGER PL 00	63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (M/H)	10
JTS OR	b. MISC. PREFAB DEVICES 00	64 TOTAL SNOOPER INSP. TIME (HRS)	0
DEVICES	c. COMPRESSION SEALS 00	65 TOTAL TRAFFIC CONTROL TIME (M/H)	0
NO. OF	d. STANDARD JOINTS 03		
EACH	e. OPEN JOINTS 00		
7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL)	7	70 SI&A GENERAL CONDITION RATINGS	
		a. DECK ITEM 58	5
		b. SUPERSTRUCTURE ITEM 59	6
		c. SUBSTRUCTURE ITEM 60	6
		d. CHANNEL & CHANNEL PROT ITEM 61	8
SUPERSTRUCTURE (FM. 1(90)b TRUSS) I			
10 LONGITUDINAL BEAMS OR GIRDERS	6		
11 LONGITUDINAL JOIST OR STRINGERS			
12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S	7	71 SI&A FIELD APPRAISAL RATINGS	
13 END DIAP'S, CURTAIN WALLS, & CONN'S	4	a. WATERWAY ADAQUACY	8
14 FLOOR BEAMS AND CONNECTIONS		b. APPR. RDWY. ALIGNMENT	8
15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN)	5		
16 DRAINAGE SYSTEMS (ON STRUCTURES)	6	72 FIELD SCOUR EVALUATION	G
17 MOVABLE SPAN MACHINERY			
USE OF INSP. ACCESSIBILITY EQUIPMENT			
SUBSTRUCTURE ITEMS, ITEM 60 (INCLUDES SCOUR)		SNOOPER (CODE P, S, 4 or N)	N
35 TIM.	a. ABUT. & INT. BENT CAPS & RISERS	LADDER Y/N	Y
SUBSTR.	b. PILES, POST, SILLS, & BRACING	OVERSIDE LADDER Y/N	N
	c. BULKHEADS, WING'S, & TIE BACKS	BUCKET TRUCK Y/N	N
36 CONC.	a. ABUT. & BENT CAPS 6	BOAT Y/N	N
SUBSTR.	b. ABUT. & BENT COL'S & BREASTWALLS 6	OTHER () Y/N	N
	c. ABUT. & INT. BENT PILES		
	d. BACKWALLS - WING'S - RETAIN. WALL 7	SPECIAL INSPECTION REQUESTED FOR:	
	e. ABUT. AND BENT FOOTINGS & SILLS		
37 STEEL	a. ABUT. & INT. BENT CAPS & RISERS	NOTE:	
SUBSTR.	b. PILES AND BRACING AND BULKHEADS		
38 FOUNDATION PILES, TYPE MATERIAL			
39 SLOPE PROT., RIP - RAP (INCLUDE DRAINAGE)	7		
40 FENDER SYSTEM		80 INSPECTED BY: P.F. SMITH <i>TS</i>	
41 DRIFT		81 REVIEWED BY: <i>TS</i>	

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine INSPECTION DATE 8/11/98
 BRIDGE NO. 50085 COUNTY JOHNSTON ROUTE 195 SBL OVER BLACK CREEK
 STRUCTURE TYPE RC FLOOR ON I-BEAMS YEAR BUILT 1955
 ROUTE ORIENTATION S To N FOR SPAN 1-4 OF 4

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

INSPECTION ITEMS

DECK ITEMS		GRADE	45 CHANNEL & CHANNEL PROT.	a. WATERWAY	8	
1 WEARING SURFACE		6		b. ALIGNMENT	8	
2 DECK NO. OF EA. TYPE SPN. GRADE RATES SI & A ITEM 58	a. CONCRETE	04	50 APPROACH ROADWAY CONDITION	c. SCOUR	8	
	b. TIMBER	00		d. SLOPE PROT., RIP-RAP, DIKES, ETC.		
	c. STEEL PLANK	00		51 APPROACH SLABS		5
	d. OPEN GRID	00		52 PAINT SYSTEM	CODE A	6
3 RAILING	a. CONCRETE	5	53 UTILITIES			
	b. TIMBER		54 RESPONSE TO LIVE LOAD		7	
	c. ALUMINUM		55 ESTIMATED REMAINING LIFE (YEARS)		15	
	d. STEEL	7	60 REGULATORY SIGN NOTICE ISSUED		N	
4 CURBS - WHEELGUARDS - PARAPETS - MEDIANS		6	61 PROMPT - ACTION NOTICE ISSUED		N	
5 WALKWAYS (ON OR ATTACHED TO STRUCTURE)			62 PRESENTLY POSTED		N	
6 DECK EXP JTS OR DEVICES NO. OF EACH	a. STEEL PL. OR FINGER PL	00	63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (M/H)		7	
	b. MISC. PREFAB DEVICES	00	64 TOTAL SNOOPER INSP. TIME (HRS)		0	
	c. COMPRESSION SEALS	00	65 TOTAL TRAFFIC CONTROL TIME (M/H)		0	
	d. STANDARD JOINTS	05	70 SI&A GENERAL CONDITION RATINGS			
	e. OPEN JOINTS	00	a. DECK	ITEM 58	5	
7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL)		7	b. SUPERSTRUCTURE	ITEM 59	5	
SUPERSTRUCTURE (FM. 1(90)b TRUSS) I			c. SUBSTRUCTURE	ITEM 60	5	
10 LONGITUDINAL BEAMS OR GIRDERS		7	d. CHANNEL & CHANNEL PROT	ITEM 61	8	
11 LONGITUDINAL JOIST OR STRINGERS			71 SI&A FIELD APPRAISAL RATINGS			
12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S		8	a. WATERWAY ADAQUACY		8	
13 END DIAP'S, CURTAIN WALLS, & CONN'S		5	b. APPR. RDWY. ALIGNMENT		8	
14 FLOOR BEAMS AND CONNECTIONS			72 FIELD SCOUR EVALUATION			
15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN)		5			G	
16 DRAINAGE SYSTEMS (ON STRUCTURES)		6	USE OF INSP. ACCESSIBILITY EQUIPMENT			
17 MOVABLE SPAN MACHINERY			SNOOPER (CODE P, S, 4 or N)			
35 TIM. SUBSTR.	a. ABUT. & INT. BENT CAPS & RISERS		LADDER	Y/N	Y	
	b. PILES, POST, SILLS, & BRACING		OVERSIDE LADDER	Y/N	N	
	c. BULKHEADS, WING'S, & TIE BACKS		BUCKET TRUCK	Y/N	N	
36 CONC. SUBSTR.	a. ABUT. & BENT CAPS	6	BOAT	Y/N	N	
	b. ABUT. & BENT COL'S & BREASTWALLS	6	OTHER ()	Y/N	N	
	c. ABUT. & INT. BENT PILES		SPECIAL INSPECTION REQUESTED FOR:			
	d. BACKWALLS - WING'S - RETAIN. WALL	7				
	e. ABUT. AND BENT FOOTINGS & SILLS					
37 STEEL SUBSTR.	a. ABUT. & INT. BENT CAPS & RISERS		NOTE:			
	b. PILES AND BRACING AND BULKHEADS					
38 FOUNDATION PILES, TYPE MATERIAL						
39 SLOPE PROT., RIP - RAP (INCLUDE DRAINAGE)		7				
40 FENDER SYSTEM			80 INSPECTED BY:	BOF		
41 DRIFT			81 REVIEWED BY:	<i>BOF</i>		

Bridge I&A Form 1(82) H
Revised 6/4/97

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAY

Bridge Maintenance Unit
Bridge Inspection Sect.

Field Inspection Report

Bridge Inspection & Analysis

Bridge No. 500085

Route 195 SBL

County JOHNSTON

Team Leader: P.F. SMITH

Date: 10/19/2000

Assisted By: RDH

Item No.	Description
1	ASPHALT WEARING SURFACE JOINTS 6 CRACKED AND BROKEN ALONG THE EXPANSION JOINTS
2a	DECK 5 MINOR JOINT SPALLS AT SOME EXPOSED AREAS. TRANSVERSE CRACKS AT SEVERAL LOCATIONS WITH EFFLO. ON THE UNDERSIDE.
3a	RAILS 5 THE EAST RAIL BRACKET AT BENT NO. 1 IS SPALLED ON THE UNDERSIDE. [SEE PHOTOS] THE BRACKETS AT POSTS 6 & 7 OF THE WEST RAIL ARE SPALLED [SEE PHOTOS]
4	CURBS 6 MINOR CHIPPING AND CRACKING.
6d	EXPANSION JOINTS 4 ASPHALT WEARING SURFACE OVER EXPANSION JOINTS IS CRACKED AND OPEN. TOP SEAL APPEARS DETERIORATED, SIGNS OF HEAVY LEAKAGE.
10	BEAMS 6 BEAMS ARE RUSTED AND CORRODED AT THE WEBS AND FLANGES OVER THE BEARING AREAS WITH 1/16" TO 1/8" PITTING.
12	INTERMEDIATE DIAPHRAGMS. 7 MINOR SURFACE RUSTING.
13	END DIAPHRAGMS, CURTAINWALL 4 THERE IS HORIZ. CRACKING ALONG THE TOP PORTION OF BAYS NO. 1 AND 2 AT END BENT NO. 2 CURTAINWALL WITH EFFLO. BUILDUP. [SEE PHOTOS] SEVERAL INTERIOR BENT BAYS HAVE MINOR SPALLING AT THE BEAMS AND HAVE VERTICAL AND DIAG. CRACKING, MINOR SPALLING AT A FEW EXTERIOR END DIAPH. [SEE PHOTOS]
15	BEARINGS 5 THE BEARINGS ARE SURFACE RUSTED AND HAVE RANDOM AREAS OF SHALLOW PITTING AND CORROSION.. DEBRIS COLLECTING IN EXPANSION SLOTS. [SEE PHOTOS]
16	DRAINAGE 6 A FEW DRAINS ARE BLOCKED BY DEBRIS.
36a	CAPS 6 BENT NO. 1 CAP HAS A SPALL WITH EXPOSED REBAR ON THE EAST END, [SEE PHOTOS] BENT NO. 3 CAP HAS A VERTICAL CRACK WITH EFFLO. ON THE NORTH SIDE. [SEE PHOTOS] THE END BENT NO. 1 & 2 CAPS HAVE DIAG. AND HORIZ. CRACKING IN THE TOP AND EXPOSED VERTICAL SURFACE. [SEE PHOTOS] THE INTERIOR BENTS HAVE HAIRLINE VERTICAL AND DIAG. CRACKS, SOME WITH MINOR EFFLO.BUILDUP.
36b	COLUMNS 6 MINOR HONEYCOMB AT LOWER PORTION ALONG THE COLD JOINTS, MINOR HAIRLINE CRACKS ALONG A FEW CORNERS.
50	APPROACH ROADWAY WEARING SURFACE 6 MINOR CRACKING AND SMALL BROKEN AREAS IN ASPHALT
52	PAINT 4 STRUCTURAL STEEL AND BEARINGS RUSTING, PAINT IS PEELING AT MANY LOCATIONS.

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

BRIDGE 500085 COUNTY JOHNSTON DIVISION 04

INSPECTED BY P.F. SMITH DATE 10/19/2000

THESE REPAIRS SHOULD BE MADE WITHIN TWELVE MONTHS FROM DATE OF THIS INSPECTION

FUNCTION CODE	DESCRIPTION OF FUNCTION	UNIT	QUANTITY	REMARK	EST. COST
554	PARTIAL CLEANING AND PARTIAL PAINTING OF STRUC. STEEL	MHS	0000225	CLEAN AND PAINT STEEL MEMBERS [AS NEEDED]	
566	MAINTENANCE OR REPAIRS TO CONCRETE BRIDGE HANDRAILS	LF	0000010	REPAIR SPALLS IN RAILS.	
556	BRIDGE APPROACHES AND SURFACING REPLACEMENT	MHS	000080	REPAIR CRACKED AND BROKEN AREAS AT EXPANSION JOINTS AND APPROACH ROADWAYS	
576	MAINTENANCE OF STANDARD DECK EXPANSION JOINTS	LF	0000160	CLEAN AND RESEAL EXPANSION JOINTS	
583	MAINTENANCE OF CONCRETE PIERS AND ABUTMENTS	MHS	0000100	REPAIR SPALLS AND SEAL CRACKS IN CAPS AND COLUMNS.	
578	GENERAL MAINTENANCE OF BRIDGE SUPERSTRUCTURE	MHS	0000150	REPAIR CRACKS AND SPALLS IN CURTAINWALLS AND DIAPH.	
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				
000	NO FUNCTION CODE AVAILABLE FOR THIS ITEM				



NORTH APPROACH



DEBRIS ALONG THE EAST RAIL.



ASPHALT WEARING SURFACE AT BENT 3 JOINT



BAY 1, END BENT 2 CURTAINWALL CRACK & LEAKAGE



BAY 2 AT END BENT 2 CURTAINWALL CRACKING W/ EFFLO.



SPAN 3 AT BENT 3 W. END DIAPH. SPALLED & DELAM.



BEAM 2 IN SPAN 4 PAINT CONDITION SIMILAR



BEAM 3 IN SPANS 1, AND 2 AT BENT 1 BEAM RUST



END BENT 1 CAP AT BRACE PILE NO. 3 CRACKING



BENT 1 CAP @ EAST END SPALLED & SPAN 1 RAIL SPALLED



END BENT 1 CAP AT BRACE PILE NO. 1 DIAGONAL CRACKS



END BENT 1 CAP @ BRACE PILE NO. 2 CRACKED



END BENT 1 CAP AT BRACE PILE 2 CRACKED AT BEAM 3



END BENT 1 CAP AT BAY 3 CRACKED TO BEAM 3

NORTH CAROLINA

Revised 6/13/97

DEPARTMENT of TRANSPORTATION

DIVISION of HIGHWAYS

BRIDGE MAINTENANCE UNIT

STRUCTURE DATA FILE

COUNTY JOHNSTON

BRIDGE NO. 500085

- CONTENTS:
- DATA CARD
 - STRUCTURE DATA WORK SHEETS
 - STREAM BED SOUNDINGS & PROFILE SKETCH
 - FORM 501 or 502
 - FORM BMD - 9
 - RETURNED PROMPT ACTION NOTICE SHOWING REPAIRS
 - OTHER SKETCHES & NOTES SHOWING STRUCTURE DETAILS
 - PHOTOGRAPHS

NOTE. STRUCTURE ANALYSIS - CHECK / YES or NO _____
WHEN PLANS ARE AVAILABLE

FIELD INSPECTOR _____

PREVIOUS DATA CORRECT
AND RESUBMITTED

DATE: 10/19/00

BY: Paul P. [Signature]

B80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 12/27/00

COUNTY: JOHNSTON DIV.: 04 DIST.: 3 STRUCTURE NUMBER: 50 0085 LENGTH: 202 FEET

ROUTE CARRIED: I95 SBL FEATURE INTERSECTED: BLACK CREEK

LOCATED: 0.8 MI.N.JCT US301/701 BRIDGE NAME:

FUNC. CLASS: IU SYST.ON: FA SYST.UNDER: ADT & YR: 21500 99 RAIL TYPE: LT 333 RT 333

BUILT: 1955 BY: SHPWC PROJ: 2336 FED.AID PROJ: DESIGN LOAD: HS20+MOD

REHAB: BY: PROJ: ALIGNMENT: TAN. 090 LANES: ON 02 UNDER 00

NAVIGATION: VC --- FT HC --- FT HT.CRN.TO BED: 27 FT WATER DEPTH: 3 FT

SUPERSTRUCTURE: RC FLOOR ON I-BEAMS

SUBSTRUCTURE: EBTS:RC CAP/H-PILES @ 3'CTS;IBTS:RCP&BEAM

SPANS: 2@51'6";2@50';1@50'3

BEAMS OR GIRDS: 4 LINES 13X130 I BEAMS @ 8'CENTERS

ENCLOSUREMENTS: 1.6

CLEAR ROADS: 028.2 BETWEEN PILES: 001.4 SIDEWALK OR CURB: LT 01.6 RT 01.6

VERT.CL.OVER: 99 FT 99 IN VERT.CL.UNDER: 00 FT 00 IN HOR.CL.UNDER: 00.0 FT SPECIAL PERMIT:

INV.RTG.: HS- 23 OPE.RTG.: HS- 38 CONTR.MEMBER: POSTED: SV -- TTST -- DATE --

SYSTEM: 3 INTERSTATE GREEN LINE ROUTE: YES

2ND OPENING: 3RD OPENING: 4TH OPENING: 5TH OPENING:

REMARKS:

FIELD SKETCH SHEET

FOR

VERTICAL & HORIZONTAL CLEARANCES

8-12-96 BOF

7-25-94 BOF

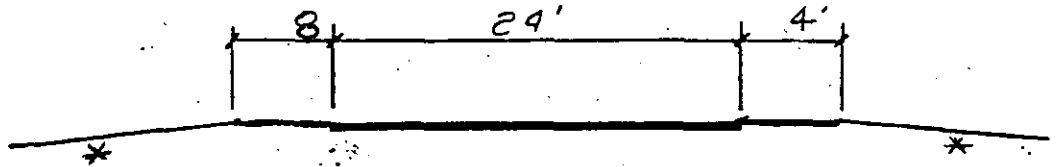
9-23-92

WBE

BRIDGE No. 500085 COUNTY JOHNSTON DATE 1-15-86 BY [REDACTED]
10-19-00 RDH 7-28-90 BOF

PROACH ROADWAY (DEFINE S I A ITEMS 32, 33, & 47)

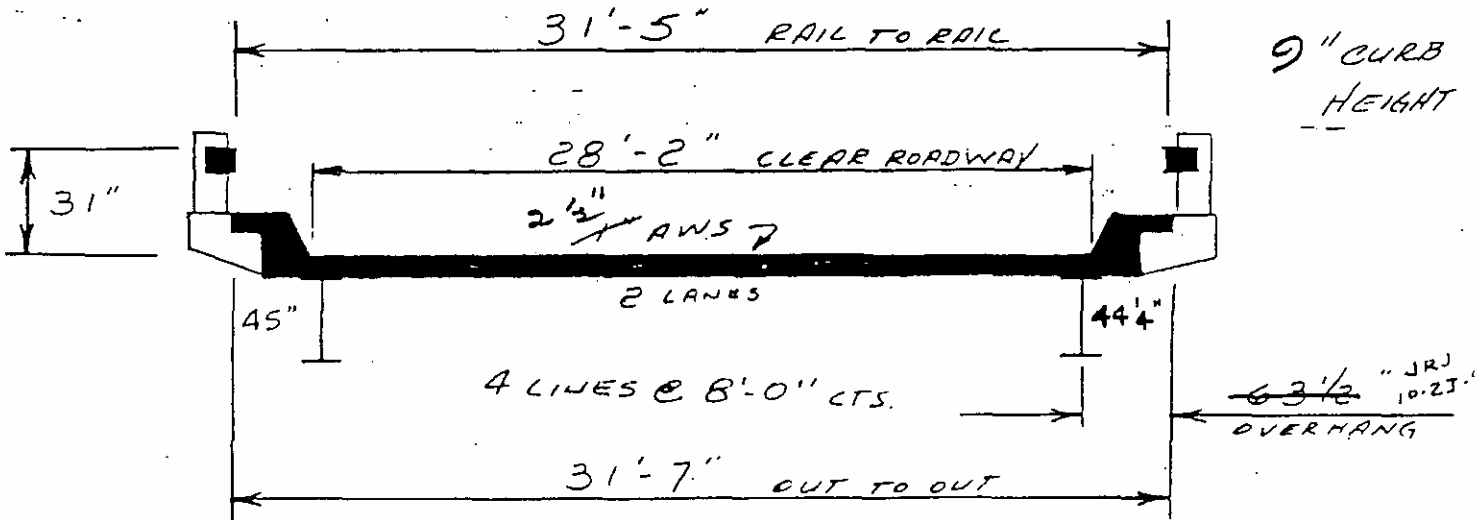
- 1. APPR. RD'WY WIDTH
- 2. APPR. MEDIAN
- 3. TOTAL HORIZ. CLR.



LOOKING NORTH

* UNSTABLE

STRUCTURE DATA WORKSHEET



LOOKING NORTH

JRJ - 10.23.92

FILLED JOINTS

STREAM BED SOUNDINGS
(SEE NEXT SHEET FOR PROFILE SKETCH)

BR. INSP. WORKSHEET (1/1/90)
Revised 10/09/1998

Bridge #: 50085 COUNTY JOHNSTON DATE 10-19-00 RDH

RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE HIGHWATER MARK TO TOP OF RAIL: 7.8 LOCATION H. W. MARK: SLOPE

NOTE: Draft a Stream Bed Profile sketch and record soundings at the stream face of abutments, C/L of piers, WE, WS, and major contour changes on the downstream side. Record soundings at the stream face abutments and C/L piers on the upstream side.

DOWNSTREAM			UPSTREAM		
DISTANCE (Station)	SOUNDING	DESCRIPTION	DISTANCE (Station)	SOUNDING	DESCRIPTION
59	27	WS & WE			WS & WE
98	27	WS & WE			WS & WE
0	2.2	TOP OF EARWALL			
2	2.5	TOP OF A.W.S.			
2	6.5	GRD. AT CAP	2	7.5	GRD. AT CAP
51	25.0	BT. 1	51	25.0	BT. 1
59	27.0	WS & WE			
75	29.5				
98	27.0	WS & WE			
101	26.5	BT. 2	101	27.0	BT. 2
151	24.5	BT. 3	151	25.0	BT. 3
170	22.8	TOE OF SLOPE			
195	7.8	TOP OF SLOPE			
200	7.5	TOP OF SLOPE	200	7.5	TOP OF SLOPE
200	2.5	TOP OF A.W.S.			
202	2.2	TOP OF EARWALL			
		DOWSTREAM	(EAST)		

Bridge #: 500085

County: JOHNSTON

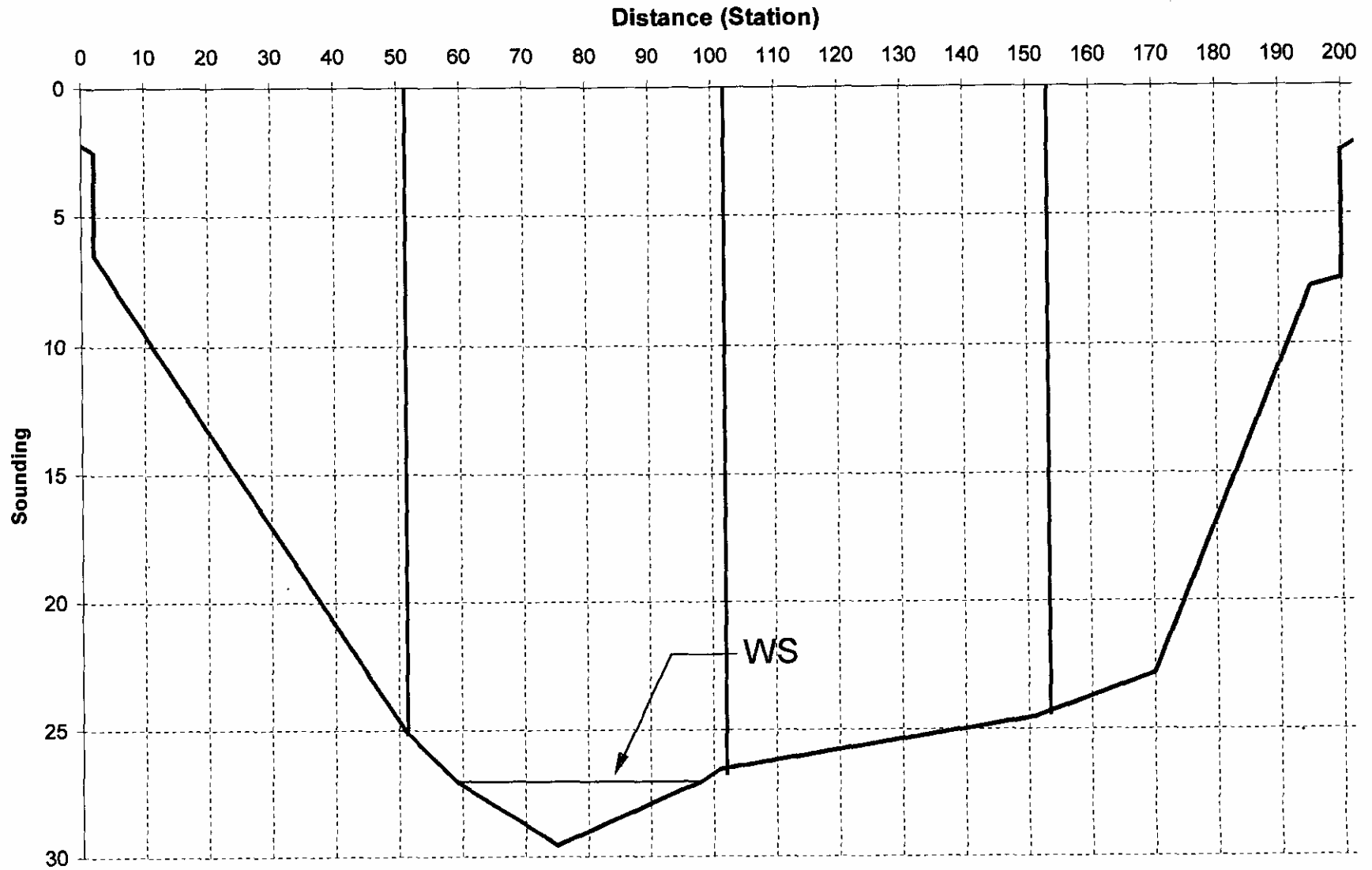
Date: 10-19-00

By: RDH Page

of

STREAMBED PROFILE (Downstream)

Top of Rail = 0 (Sounding)



STREAM BED SOUNDINGS
(SEE NEXT SHEET FOR PROFILE SKETCH)

BR. INSP. WORKSHEET (1/1/90)

Revised 6/13/97

BRIDGE NO. 85 COUNTY JOHNSTON

DATE 8-11-98

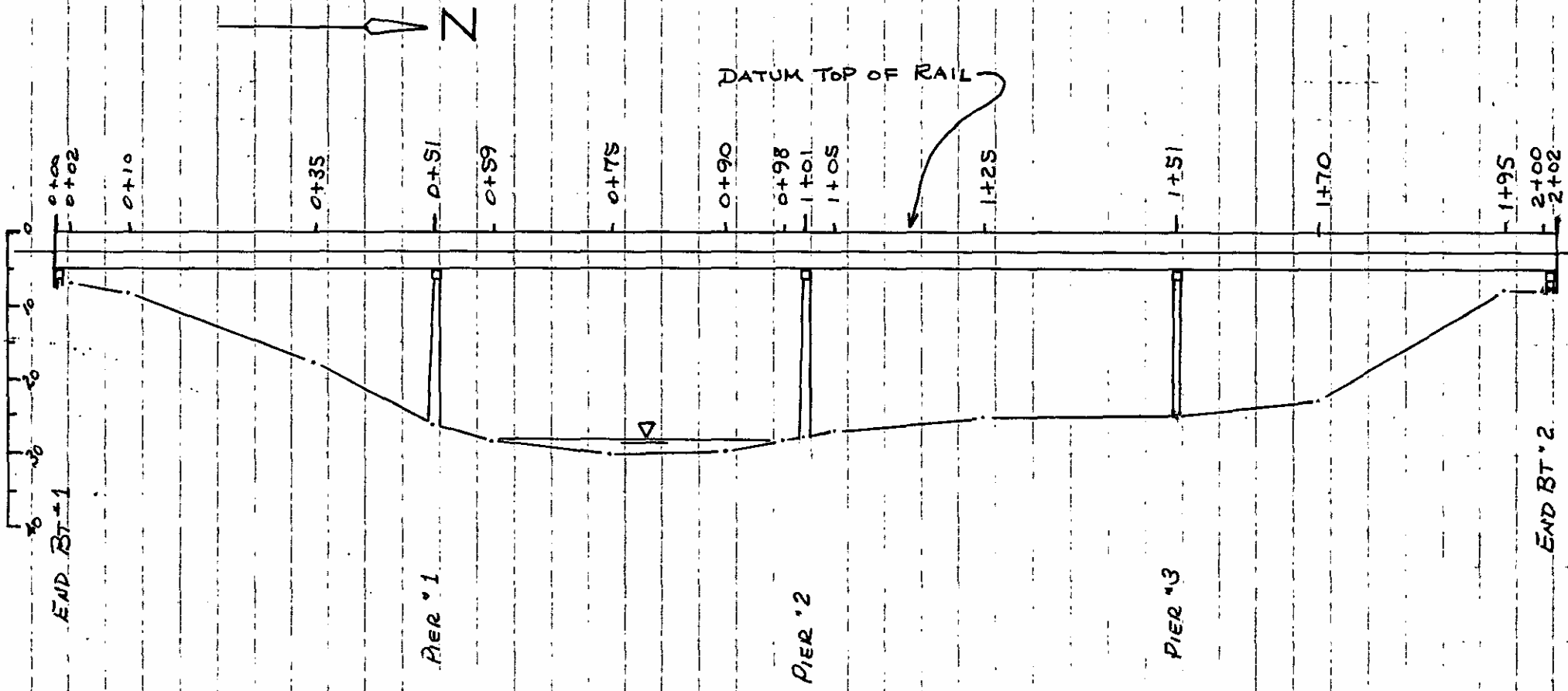
BY: BOF

RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE HIGHWATER MARK TO TOP OF RAIL: 20'-0" LOCATION H. W. MARK: COLUMNS

NOTE: Draft a Stream Bed Profile sketch and record soundings at the stream face of abutments, C/L of piers, WE, WS, and major contour changes on the downstream side. Record soundings at the stream face abutments and C/L piers on the upstream side.

DOWNSTREAM			UPSTREAM		
STATION	SOUNDING	DESCRIPTION	STATION	SOUNDING	DESCRIPTION
0+00	2.5	TOP OF AWS			
0+02	6.5	GAC	0+02	7.5	GAC
0+10	8.0				
0+35	17.5				
0+51	26.0	C/L BT-1	0+51	25.5	C/L BT-1
0+59	28.0	WS/WE			
0+75	30.0				
0+90	29.2				
0+98	28.0	WS/WE			
1+01	27.5	C/L BT-2	1+01	26.5	C/L BT-2
1+05	26.5				
1+25	25.0				
1+51	24.5	C/L BT-3	1+51	25.0	C/L BT-3
1+70	22.8	TOE OF SLOPE			
1+95	7.8	TOP OF SLOPE			
2+00	7.5	GAC	2+00	7.5	GAC
2+02	2.5	TOP OF AWS			



SCALE : 1" = 20'-0"

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

8-12.98 BOF
7-25.94 BOF
9-27-92

BRIDGE NO. 85 SMC

COUNTY JOHNSON

DATE

BY MSW

RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE H. M. MARK TO TOP OF RAIL 20'-0"

LOCATION H. M. MARK STAINS

NOTE: DRAFT A STREAM BED PROFILE SKETCH AND RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS, C/L OF PIERS, WF, & WS, AND MAJOR CONTOUR CHANGES ON THE DOWNSTREAM SIDE. RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS AND C/L OF PIERS ON THE UPSTREAM SIDE.

DOWNSTREAM

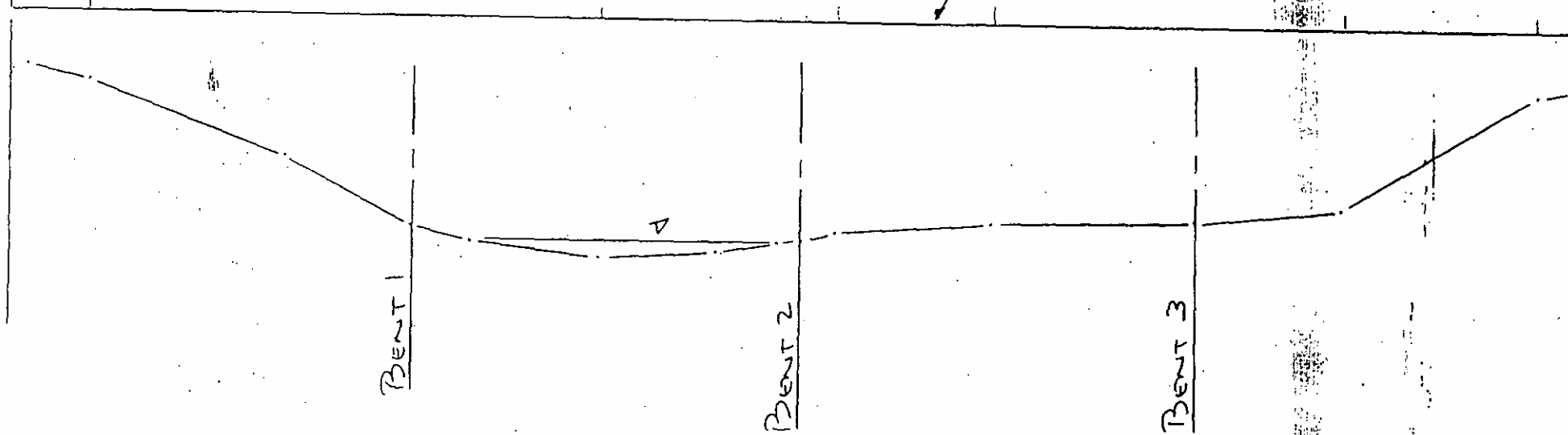
UPSTREAM

STATION	SOUNDING	DESCRIPTION	STATION	SOUNDING	DESCRIPTION
0+00	2'-5"	Top AWS			
0+02	6'-6"	G.L.	0+02	7'-6"	G.L.
0+10	8'-0"	G.L.			
0+35	17'-6"	G.L.			
0+51	26'-0"	WT 1	0+51	25'-6"	WT 1
0+59	28'-0"	WSWE			
0+75	30'-0"	WT 2			
0+90	29'-3"	WT 2			
0+98	28'-0"	WSWE			
1+01	27'-6"	WT 2	1+01	26'-6"	WT 2
1+05	26'-6"	G.L.			
1+25	25'-0"	G.L.			
1+51	24'-6"	WT 3	1+51	25'-0"	WT 3
1+70	22'-9"	TOE Slope Foot.			
1+95	7'-9"	Top Slope Foot.			
2+00	7'-6"	Top Gully G.L.	2+00	7'-6"	Top Gully G.L.
2+02	2'-5"	Top AWS			

STREAM BED PROFILE
DOWNSTREAM SIDE
JOHNSTON # 85
MSW 9-23-92

NORTH

SOUNDINGS TAKEN FROM TOP OF RA



SCALE 1" = 20'-0"

8-12-96 ROF

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

BRIDGE NO. 85 SML COUNTY JOHNSTON DATE 7-25-14 BOF
9-27-92 BY MSW

RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE H. W. MARK TO TOP OF RAIL 20'-0" LOCATION H. W. MARK STAINS

NOTE: DRAFT A STREAM BED PROFILE SKETCH AND RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS, C/L OF PIERS, WE, & WS, AND MAJOR CONTOUR CHANGES ON THE DOWNSTREAM SIDE. RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS AND C/L OF PIERS ON THE UPSTREAM SIDE.

DOWNSTREAM

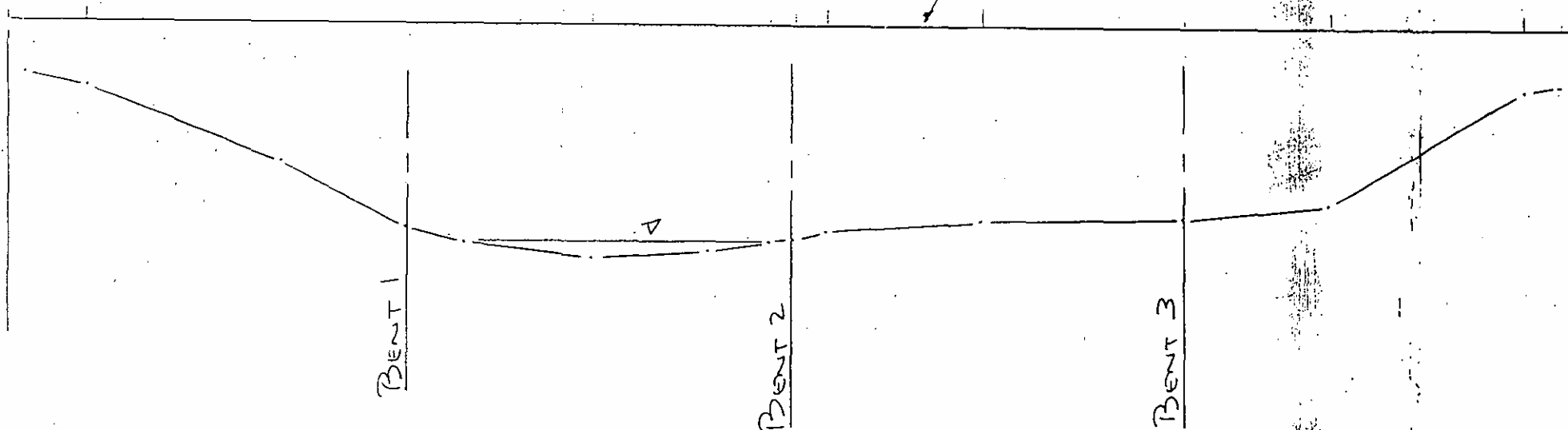
UPSTREAM

STATION	SOUNDING	DESCRIPTION	STATION	SOUNDING	DESCRIPTION
0+00	2'-5"	Top AWS			
0+02	6'-6"	G.L.	0+02	7'-6"	G.L.
0+10	8'-0"	G.L.			
0+35	17'-6"	G.L.			
0+51	26'-0"	BT1	0+51	25'-6"	BT1
0+59	28'-0"	WSWE			
0+75	30'-0"	WSW			
0+90	29'-3"	BSW			
0+98	28'-0"	WSWE			
1+01	27'-6"	BT2	1+01	26'-6"	BT2
1+05	26'-6"	G.L.			
1+25	25'-0"	G.L.			
1+51	24'-6"	BT3	1+51	25'-0"	BT3
1+70	22'-9"	Toe Sluiceway			
1+95	7'-9"	Top Sluiceway			
2+00	7'-6"	Top Culvert G.L.	2+00	7'-6"	Top Culvert G.L.
2+02	2'-5"	Top AWS			

STREAM BED PROFILE
DOWNSTREAM SIDE
JOHNSTON # 85
MSW 9-23-92

North

SOUNDINGS TAKEN FROM TOP OF RAIL



SCALE 1" = 20'-0"

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH) 8-12-96 BOF
7-25-94 BOF

BRIDGE NO. 85 SML COUNTY JOHNSON DATE 9-27-92 BY MSW

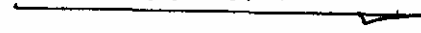
RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE H. M. MARK TO TOP OF RAIL 20'-0" LOCATION H. M. MARK STAINS

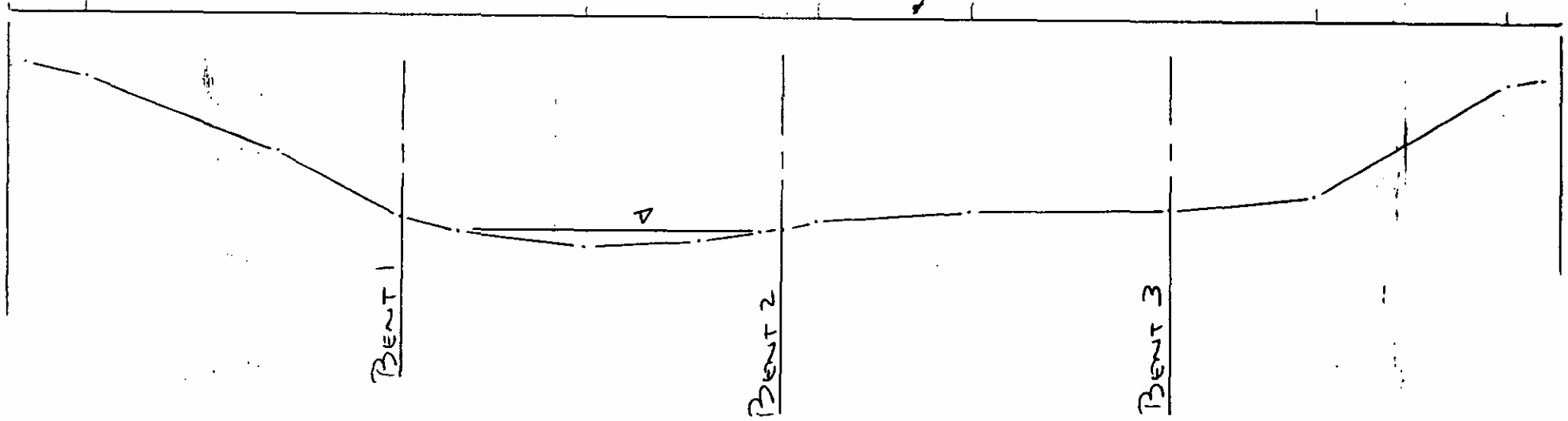
NOTE: DRAFT A STREAM BED PROFILE SKETCH AND RECORD SOUNDINGS AT THE STREAM
 FACE OF ABUTMENTS, C/L OF PIERS, WE, & WS, AND MAJOR CONTOUR CHANGES ON THE
 8 DOWNSTREAM SIDE. RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS
 AND C/L OF PIERS ON THE UPSTREAM SIDE.

DOWNSTREAM			UPSTREAM		
STATION	SOUNDING	DESCRIPTION	STATION	SOUNDING	DESCRIPTION
0+00	2'-5"	Top AWS			
0+02	6'-6"	G.L.	0+02	7'-6"	G.L.
0+10	8'-0"	G.L.			
0+35	17'-6"	G.L.			
0+51	26'-0"	BT 1	0+51	25'-6"	BT 1
0+59	28'-0"	WSWE			
0+75	30'-0"	WSW			
0+90	29'-3"	BSW			
0+98	28'-0"	WSWE			
1+01	27'-6"	BT 2	1+01	26'-6"	BT 2
1+05	26'-6"	G.L.			
1+25	25'-0"	G.L.			
1+51	24'-6"	BT 3	1+51	25'-0"	BT 3
1+70	22'-9"	TOE Slope Foot.			
1+95	7'-9"	Top Slope Foot.			
2+00	7'-6"	Top Cut G.L.	2+00	7'-6"	Top Cut G.L.
2+02	2'-5"	Top AWS			

STREAM BED PROFILE
DOWNSTREAM SIDE
JOHNSTON # 85
MSW 9-23-92

North 

SOUNDINGS TAKEN FROM TOP OF RAIL



SCALE 1" = 20'-0"

7-25-94/BOF
8-12-96/BOF

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

7-25-94 BOF

BRIDGE NO. 85 SMC COUNTY JOHNSON DATE 9-27-92 BY MSW

RECORD SOUNDINGS FROM TOP OF RAIL. OTHER LOCATION IF NEEDED: _____

DISTANCE H. W. MARK TO TOP OF RAIL 20'-0" LOCATION H. W. MARK STAINS

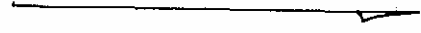
NOTE: DRAFT A STREAM BED PROFILE SKETCH AND RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS, C/L OF PIEPS, WE, & WS, AND MAJOR CONTOUR CHANGES ON THE DOWNSTREAM SIDE. RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS AND C/L OF PIERS ON THE UPSTREAM SIDE.

DOWNSTREAM

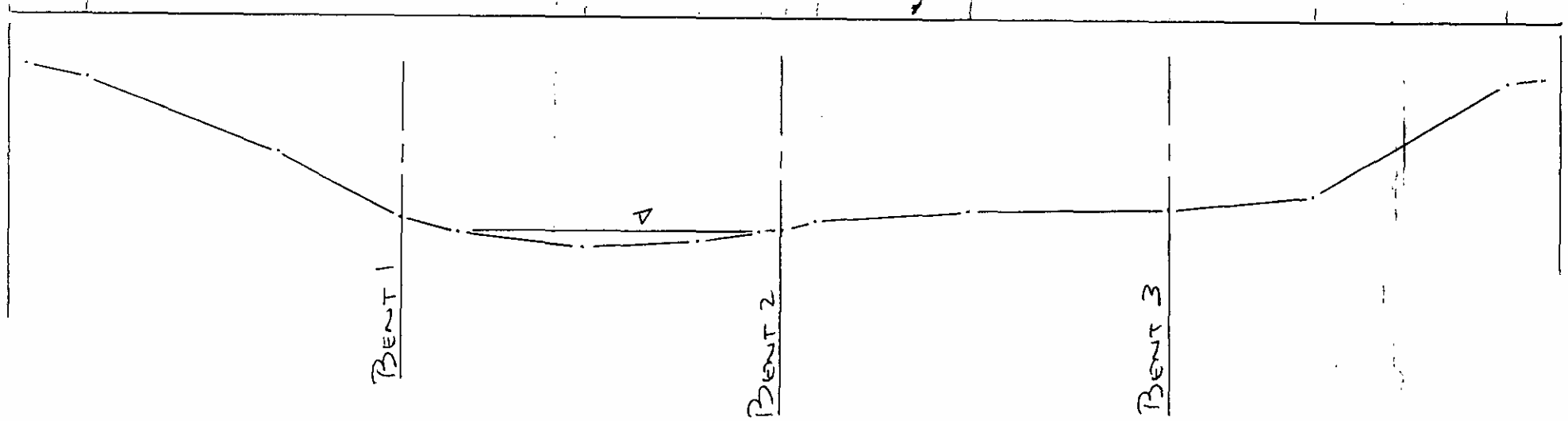
UPSTREAM

STATION	SOUNDING	DESCRIPTION	STATION	SOUNDING	DESCRIPTION
0+00	2:5"	Top AWS			
0+02	6:6"	G.L.	0+02	7:6"	G.L.
0+10	8:0"	G.L.			
0+35	17:6"	G.L.			
0+51	26:0"	BT 1	0+51	25:6"	BT 1
0+59	28:0"	WSWE			
0+75	30:0"	WSWE			
0+90	29:3"	WSWE			
0+98	28:0"	WSWE			
1+01	27:6"	BT 2	1+01	26:6"	BT 2
1+05	26:6"	G.L.			
1+25	25:0"	G.L.			
1+51	24:6"	BT 3	1+51	25:0"	BT 3
1+70	22:9"	Toe Supp. Prot.			
1+95	7:9"	Top Supp. Prot.			
2+00	7:6"	Top Gully G.L.	2+00	7:6"	Top Gully G.L.
2+02	2:5"	Top AWS			

STREAM BED PROFILE
DOWNSTREAM SIDE
JOHNSTON # 85
MSW 9-23-92

NORTH 

SOUNDINGS TAILED FROM TOP OF RAIL



SCALE 1" = 20'-0"

7-25-94/BOF



LOOKING SOUTH



LOOKING SOUTH



LOOKING NORTH (S.B.L.)



LOOKING NORTH (S.B.L.)



BENT 3 JOINT



EAST SIDE



WEST SIDE



WEST END OF BENT 2



SPAN 2 UNDERSIDE (ALL SPANS SIMILAR)



BENT 2



UPSTREAM (WEST)



DOWNSTREAM (EAST)