



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

ATTENTION:

BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY JOHNSTON BRIDGE NUMBER 500056 INSPECTION CYCLE 2 YRS

ROUTE US301&NC96 ACROSS HOLTS LAKE(BLACK CRE M.P. 000+000

LOCATION 0.7 MLN JCT US701

SUPERSTRUCTURE REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE RC ABUTS:BTS:RNP&W PIERS EXTENDED W/BRACKETS

SPANS 4@52'6"

PRESENT CONDITION FAIR INVENTORY RATING HIS-11

INSPECTION DATE 10/19/2000 OPERATING RATING HIS-19

PRESENT POSTING NP PROPOSED POSTING W.L.-30'

*Retain "Post"
 AAJ
 11/1/00*

COMPUTER UPDATE 12-21-00 ANALYSIS DATE 12-1-00

POSTING LETTER DATE _____ SPECIAL PERMIT _____

OTHER SIGNS PRESENT 3 DELINEATORS



| SIGN NOTICE ISSUED FOR | NUMBER REQUIRED |
|------------------------|--------------------------|
| No WEIGHT LIMIT | <input type="checkbox"/> |
| No SPECIAL PERMIT | <input type="checkbox"/> |
| No DELINEATORS | <input type="checkbox"/> |
| No NARROW BRIDGE | <input type="checkbox"/> |
| No ONE LANE BRIDGE | <input type="checkbox"/> |
| No LOW CLEARANCE | <input type="checkbox"/> |

Photo Looking North

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 500056
(8) STRUCTURE NUMBER (FEDERAL) 000000001010056
(5) INVENTORY ROUTE (ON/UNDER) - ON = 121003010
(2) STATE HIGHWAY DEPARTMENT DISTRICT 04
(3) COUNTY CODE 101 (4) PLACE CODE 62520
(6) FEATURES INTERSECTED - HOLTS LAKE(BLACK CREEK)
(7) FACILITY CARRIED - US301&NC96
(9) LOCATION - 0.7 MI N JCT US701
(11) MILEPOINT 000.000
(16) LATITUDE 35 D 28.2M (17) LONGITUDE 078 D 23.0M
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

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

(43) STRUCTURE TYPE MAIN: CONCRETE
TYPE - TEE BEAM CODE 104
(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-P 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 1926
(106) YEAR RECONSTRUCTED 1954
(42) TYPE OF SERVICE: ON - HIGHWAY
UNDER - WATERWAY CODE 15
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 00
(29) AVERAGE DAILY TRAFFIC 009200
(30) YEAR OF ADT 1999 (109) TRUCK ADT PCT 12
(19) BYPASS, DETOUR LENGTH 08 MI

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

(48) LENGTH OF MAXIMUM SPAN 0053 FT
(49) STRUCTURE LENGTH 000210 FT
(50) CURB OR SIDEWALK: LEFT 01.6 FT RIGHT 01.6 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 028.4 FT
(52) DECK WIDTH OUT TO OUT 031.7 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 031 FT
(33) BRIDGE MEDIAN - NO MEDIAN CODE 0
(34) SKEW 00 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.4 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

SUFFICIENCY RATING = 38.7
STATUS =

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES
(104) HIGHWAY SYSTEM - NON HHS ROUTE 0
(26) FUNCTIONAL CLASS - OTHER PRINCIPAL ARTERIAL 14
(100) DEFENSE HIGHWAY - NOT DEFENSE HWY 0
(101) PARALLEL STRUCTURE - NONE EXISTS N
(102) DIRECTION OF TRAFFIC - 2-WAY TRAFFIC 2
(103) TEMPORARY STRUCTURE - NOT TEMPORARY
(110) DESIGNATED NATIONAL NETWORK - NOT PART OF 0
(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 ***** CODE

(58) DECK 6
(59) SUPERSTRUCTURE 5
(60) SUBSTRUCTURE 5
(61) CHANNEL & CHANNEL PROTECTION 7
(62) CULVERTS N

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

(31) DESIGN LOAD - H 15 2
(64) OPERATING RATING - LF HS-19 134
(66) INVENTORY RATING - LF HS-11 119
(70) BRIDGE POSTING - NO POSTING REQUIRED 5
(41) STRUCTURE OPEN, POSTED, OR CLOSED A
DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 4
(68) DECK GEOMETRY 4
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(71) WATERWAY ADEQUACY 8
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0010
(113) SCOUR CRITICAL BRIDGES U

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

(75) TYPE OF WORK - ... CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT 000000 FT
(94) BRIDGE IMPROVEMENT COST \$ 0
(95) ROADWAY IMPROVEMENT COST \$ 0
(96) TOTAL PROJECT COST \$ 0
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT 018400 (115) YEAR FUTURE ADT 2010

***** INSPECTIONS *****

(90) INSPECTION DATE 10/2000 (91) FREQUENCY 24 MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO - MO A)
B) UNDERWATER INSP - YES - 48 MO B) 10/1999
C) OTHER SPECIAL INSP - NO - MO C)
SCOUR - NOT EVALUATED

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine INSPECTION DATE 10/19/2000
 BRIDGE NO. 500056 COUNTY JOHNSTON ROUTE US301&NC96 OVER HOLTS LAKE(BLACK CRE
 STRUCTURE TYPE REINFORCED CONCRETE DECK GIRDERS YEAR BUILT 1926
 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 | | c. SCOUR | 8 |
| | b. TIMBER | 00 | | d. SLOPE PROT., RIP-RAP, DIKES, ETC. | |
| | c. STEEL PLANK | 00 | | | |
| | d. OPEN GRID | 00 | | | |
| | | | 50 APPROACH ROADWAY CONDITION | | 6 |
| | | | 51 APPROACH SLABS | | |
| | | | 52 PAINT SYSTEM | CODE | |
| | | | 53 UTILITIES | | 7 |
| | | | 54 RESPONSE TO LIVE LOAD | | 8 |
| | | | 55 ESTIMATED REMAINING LIFE (YEARS) | | 10 |
| | | | 60 REGULATORY SIGN NOTICE ISSUED | | N |
| | | | 61 PROMPT - ACTION NOTICE ISSUED | | N |
| | | | 62 PRESENTLY POSTED | | N |
| | | | 63 TOT. FIELD INSP. TIME (INCLUDE WRITE UP) (M/H) | | 10 |
| | | | 64 TOTAL SNOOPER INSP. TIME (HRS) | | 0 |
| | | | 65 TOTAL TRAFFIC CONTROL TIME (M/H) | | 0 |
| | | | 70 SI&A GENERAL CONDITION RATINGS | | |
| 7 DECK DEBRIS (INCLUDE EXCESS SAND / GRAVEL) | | 6 | a. DECK | ITEM 58 | 6 |
| | | | b. SUPERSTRUCTURE | ITEM 59 | 5 |
| | | | c. SUBSTRUCTURE | ITEM 60 | 5 |
| | | | d. CHANNEL & CHANNEL PROT | ITEM 61 | 7 |
| SUPERSTRUCTURE (FM. 1(90)b TRUSS) I | | | | | |
| 10 LONGITUDINAL BEAMS OR GIRDERS | | 5 | 71 SI&A FIELD APPRAISAL RATINGS | | |
| 11 LONGITUDINAL JOIST OR STRINGERS | | | a. WATERWAY ADAQUACY | | 8 |
| 12 INT. DIAP'S, X-FRAMES, BRACING, & CONN'S | | 7 | b. APPR. RDWY. ALIGNMENT | | 8 |
| 13 END DIAP'S, CURTAIN WALLS, & CONN'S | | 6 | | | |
| 14 FLOOR BEAMS AND CONNECTIONS | | | 72 FIELD SCOUR EVALUATION | | 0 |
| 15 BEARINGS ASSEMBLIES (INCLUDE MISALIGN) | | 7 | | | |
| 16 DRAINAGE SYSTEMS (ON STRUCTURES) | | 5 | USE OF INSP. ACCESSIBILITY EQUIPMENT | | |
| 17 MOVABLE SPAN MACHINERY | | | | | |
| SUBSTRUCTURE ITEMS, ITEM 60 (INCLUDES SCOUR) | | | SNOOPER (CODE P, S, 4 or N) | | |
| 35 TIM. SUBSTR. | a. ABUT. & INT. BENT CAPS & RISERS | | LADDER | Y/N | N |
| | b. PILES, POST, SILLS, & BRACING | | OVERSIDE LADDER | Y/N | N |
| | c. BULKHEADS, WING'S, & TIE BACKS | 5 | BUCKET TRUCK | Y/N | N |
| 36 CONC. SUBSTR. | a. ABUT. & BENT CAPS | 5 | BOAT | Y/N | Y |
| | b. ABUT. & BENT COL'S & BREASTWALLS | 5 | OTHER (BOOTS) | Y/N | Y |
| | c. ABUT. & INT. BENT PILES | | SPECIAL INSPECTION REQUESTED FOR: | | |
| | d. BACKWALLS - WING'S - RETAIN. WALL | 6 | | | |
| | | | | | |
| | | | | | |
| 37 STEEL SUBSTR. | a. ABUT. & INT. BENT CAPS & RISERS | | NOTE: | ITEM 38 FOUNDATION PILES NOT VISIBLE BUT APPEAR STABLE | |
| | b. PILES AND BRACING AND BULKHEADS | | | | |
| 38 FOUNDATION PILES, TYPE MATERIAL | | 6 | | | |
| 39 SLOPE PROT., RIP - RAP (INCLUDE DRAINAGE) | | | | | |
| 40 FENDER SYSTEM | | | 80 INSPECTED BY: | P.F. SMITH <i>PS</i> | |
| 41 DRIFT | | 7 | 81 REVIEWED BY: | <i>PLB</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. 500056

Route US301&NC96

County JOHNSTON

Team Leader: P.F. SMITH Date: 10/19/2000

Assisted By: RDH

| Item No. | Description |
|----------|--|
| 1 | ASPHALT WEARING SURFACE SEE PHOTOS] |
| 6 | MINOR CRACKS AND LEAKING AT EXPANSION JOINTS.[|
| 3a | RAILS 5 THE EAST SIDE RAIL BRACKETS AT BENT NO. 3 ARE SPALLED WITH EXPOSED REBAR. [SEE PHOTOS], THERE ARE A FEW SURFACE CHIPS AND SHALLOW SPALLS ON THE TOP PORTIONS OF THE RAILS. |
| 4 | CURBS 6 MINOR SPALLS AT FORM TIES, RANDOM TRANSVERSE CRACKING |
| 6d | EXPANSION JOINTS 6 TOP SEAL FAIR, SIGNS OF MINOR LEAKAGE |
| 7 | DECK DEBRIS. 6 GROWTH AND DEBRIS ARE BLOCKING APPROX. 50% OF THE DECK DRAINS. |
| 10 | LONGITUDINAL GIRDERS 5 GIRDER NO. 1 OF SPAN 3 AT BENT NO. 3 HAS A VERTICAL CRACK AT THE EXTERIOR BEARING SURFACE. [SEE PHOTOS]. THE GIRDERS HAVE TRANSVERSE HAIRLINE FLEXTURE CRACKS ALONG THE BOTTOM PORTION. |
| 13 | END DIAPHRAGMS 6 HAIRLINE MAPCRACKS, MINOR CHIPPING AT CORNERS. |
| 16 | DRAINAGE 5 APPROX. 50% OF THE DECK DRAINS ARE BLOCKED BY DEBRIS AND GROWTH. |
| 35c | TIMBER BULKHEADS 6 SOFT AND CRACKED WITH A FEW SMALL AREAS OF SHALLOW DECAY. |
| 36a | CONCRETE CAPS 5 THE CONCRETE CAP EXTENSIONS HAVE DELAMINATED AND SPALLED ALONG THE EDGES AT SEVERAL LOCATIONS. BREASTWALL NO. 1 SPALLED AT THE BRIDGE SEATS [SEE PHOTOS] |
| 36b | BREASTWALLS 5 THE ABUT. NO. 1 BREASTWALL HAS DELAMINATION AND SPALLING UNDER GIRDER NO. 1 AND 5 , VERTICAL AND DIAG. HAIRLINE CRACKING [SEE PHOTOS] THE COLUMNS ARE ROUGH AND WORN AT THE WATERLINE, MINOR VERTICAL CRACKS AT THE CORNER PORTIONS. |
| 36d | WINGWALLS 6 CRACKED SPALLED AND DELAM. UNDER EXTERIOR GIRDERS. MINOR HAIRLINE CRACKS |
| 50 | APPROACH ROADWAY 6 MINOR CRACKS AT END BENTS, MINOR WASHOUTS BEHIND WINGWALLS. |

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

BRIDGE 500056 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 |
|---------------|---|------|----------|---|-----------|
| 583 | MAINTENANCE OF CONCRETE PIERS AND ABUTMENTS | MHS | 0000110 | REPAIR DELAM. AND SPALLED AREAS. SEAL CRACKS | |
| 556 | BRIDGE APPROACHES AND SURFACING REPLACEMENT | MHS | 0000080 | SEAL CRACKS IN ASPHALT WEARING SURFACE AT EXPANSION JOINTS, REPAIR WASHOUTS BEHIND WING | |
| 578 | GENERAL MAINTENANCE OF BRIDGE SUPERSTRUCTURE | MHS | 0000025 | SEAL CRACKS IN GIRDERS | |
| 566 | MAINTENANCE OR REPAIRS TO CONCRETE BRIDGE HANDRAILS | LF | 000020 | REPAIR SPALLS IN RAILS | |
| 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 | | | | |
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| 000 | NO FUNCTION CODE AVAILABLE FOR THIS ITEM | | | | |
| 000 | NO FUNCTION CODE AVAILABLE FOR THIS ITEM | | | | |



DRAINAGE ALONG WEST CURB



ASPHALT WEARING SURFACE AT BENT 1 JOINT



EAST RAIL POST @ BENT 3 SPALLED AT UNDERSIDE



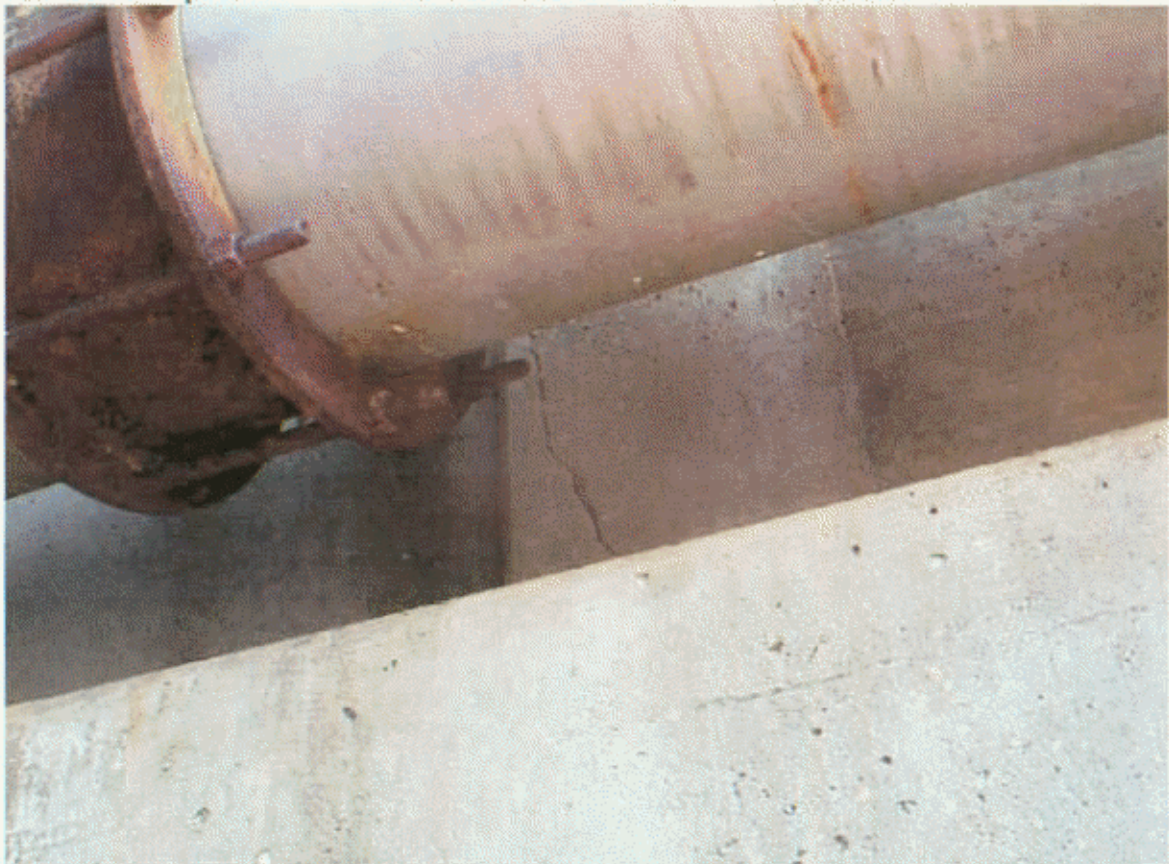
WEST SIDE DRAINAGE



DRAINAGE ALONG WEST CURB



BENT 1 JOINT



G-1, SPAN 3 AT BENT 3 VERT. CRACK AT BRG. 7" FROM END



BENT 3 AT GIRDER 3, SPAN 3 CRACKED AND DELAM.



BENT 3 AT GIRDER 1, SPAN 3 CRACKED & DELAM.



BENT 3 AT GIRDER 2, SPAN 3 SPALLED W/ EXPOSED REBAR



CRACKED & DELAM. AT GIRDER 1, ABUT. 1



CRACKED & DELAM. AT GIRDER 2, ABUT. 1



SPALLED W/ EXPOSED REBAR AT GIRDER 3, ABUT. 1



CRACKED & DELAM. AT GIRDER 5, ABUT. 1

NORTH CAROLINA

Revised 6/13/97

DEPARTMENT of TRANSPORTATION

DIVISION of HIGHWAYS

BRIDGE MAINTENANCE UNIT

STRUCTURE DATA FILE

COUNTY JOHNSTON

BRIDGE NO. 500056

- CONTENTS:
- DATA CARD
 - STRUCTURE DATA WORK SHEETS
 - STREAM BED SOUNDINGS & PROFILE SKETCH
 - FORM 501 or 502
 - FORM EMD - 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 F. Smith

B80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 12/21/00

COUNTY: JOHNSTON DIV.: 04 DIST.: 3 STRUCTURE NUMBER: 50 0056 LENGTH: 210 FEET

ROUTE CARRIED: US301&NC96 FEATURE INTERSECTED: HOLTS LAKE(BLACK CREEK)

LOCATED: 0.7 MI N JCT US701 BRIDGE NAME: -----

FUNC. CLASS: PAV SYST.ON: FA SYST.UNDER: ----- ADT & YR: 9200 99 RAIL TYPE: LT 111 RT 111

BUILT: 1926 BY: SHPWC PROJ: 240 FED.AID PROJ: ----- DESIGN LOAD: H-15

REHAB: 1954 BY: SHPWC PROJ: 2333 ALIGNMENT: TAN SKEW: 090 LANES: ON 02 UNDER 00

NAVIGATION: VC --- FT HC --- FT HT.CRN.TO BED: 25 FT WATER DEPTH: 11 FT

SUPERSTRUCTURE: REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE: RC ABUTS;BTS:RNP&W PIERS EXTENDED W/BRACKETS

SPANS: 4@52'6

BEAMS OR GIRDERS: REINFORCED CONCRETE DECK GIRDER

FLOOR: RC/5.5AWS ENCROACHMENTS: ----- DECK (OUT TO OUT): 031.7

CLEAR ROADWAY: 028.4 BETWEEN RAILS: 031 .5 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- 11 OPE.RTG.: HS- 19 CONTR.MEMBER: ----- POSTED: SV -- TTST -- DATE --

SYSTEM: 4 PRIMARY GREEN LINE ROUTE: YES

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

REMARKS:

FIELD SKETCH SHEET

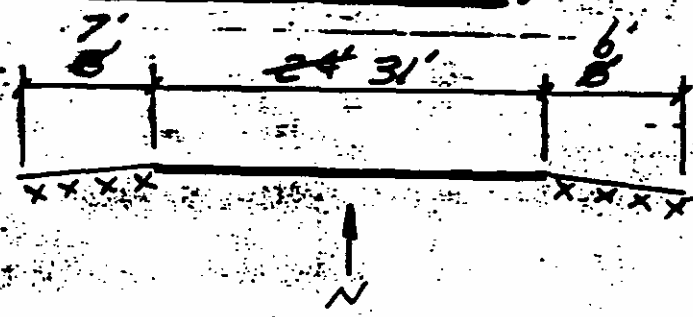
VERTICAL & HORIZONTAL CLEARANCES

Bridge No. 500056 County JOHNSTON Date 10-8-85 By JDM

ROADWAY (DATE SET HERE TO, BY, 1987)

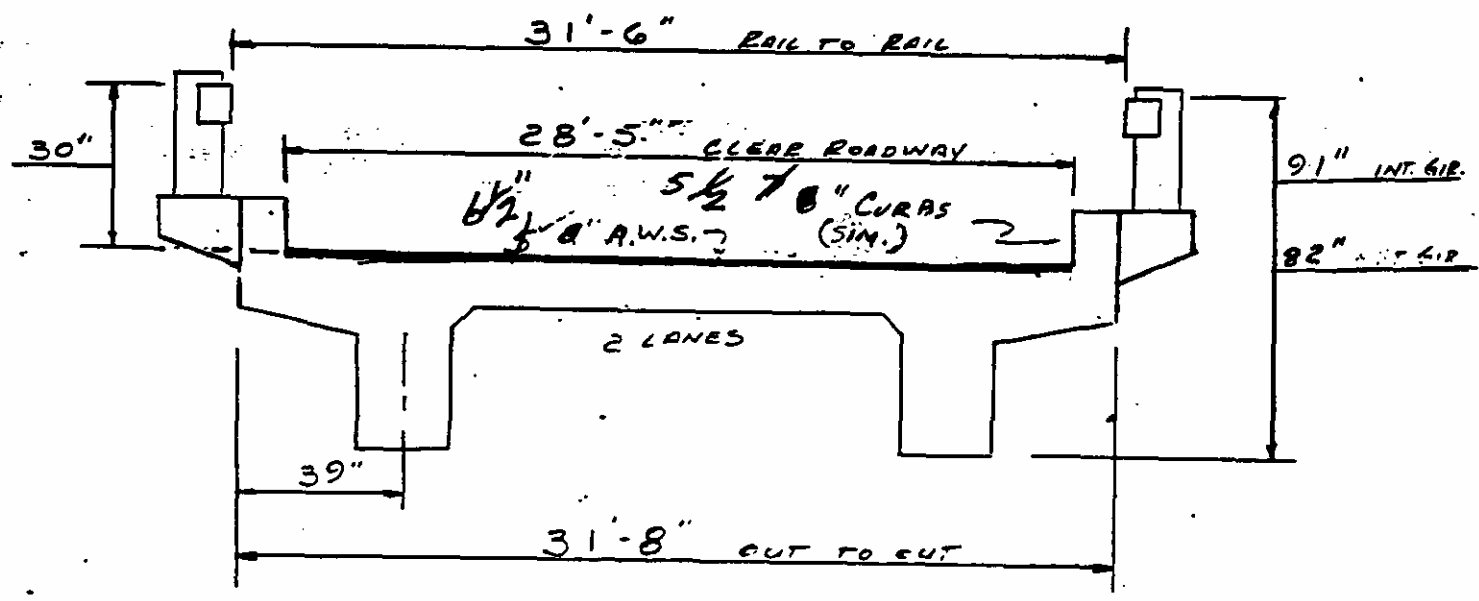
- 1. Appr. Rdwy. Width
- 2. Appr. Median
- 3. Total Mass.

11-28-93 BOF
1-3-95 BOF
6-24-98
10-19-00 RDH



x = UNSTABLE

STRUCTURE DATA WORKSHEET



SEE PLANS

Bridge #: 500056

County: JOHNSTON

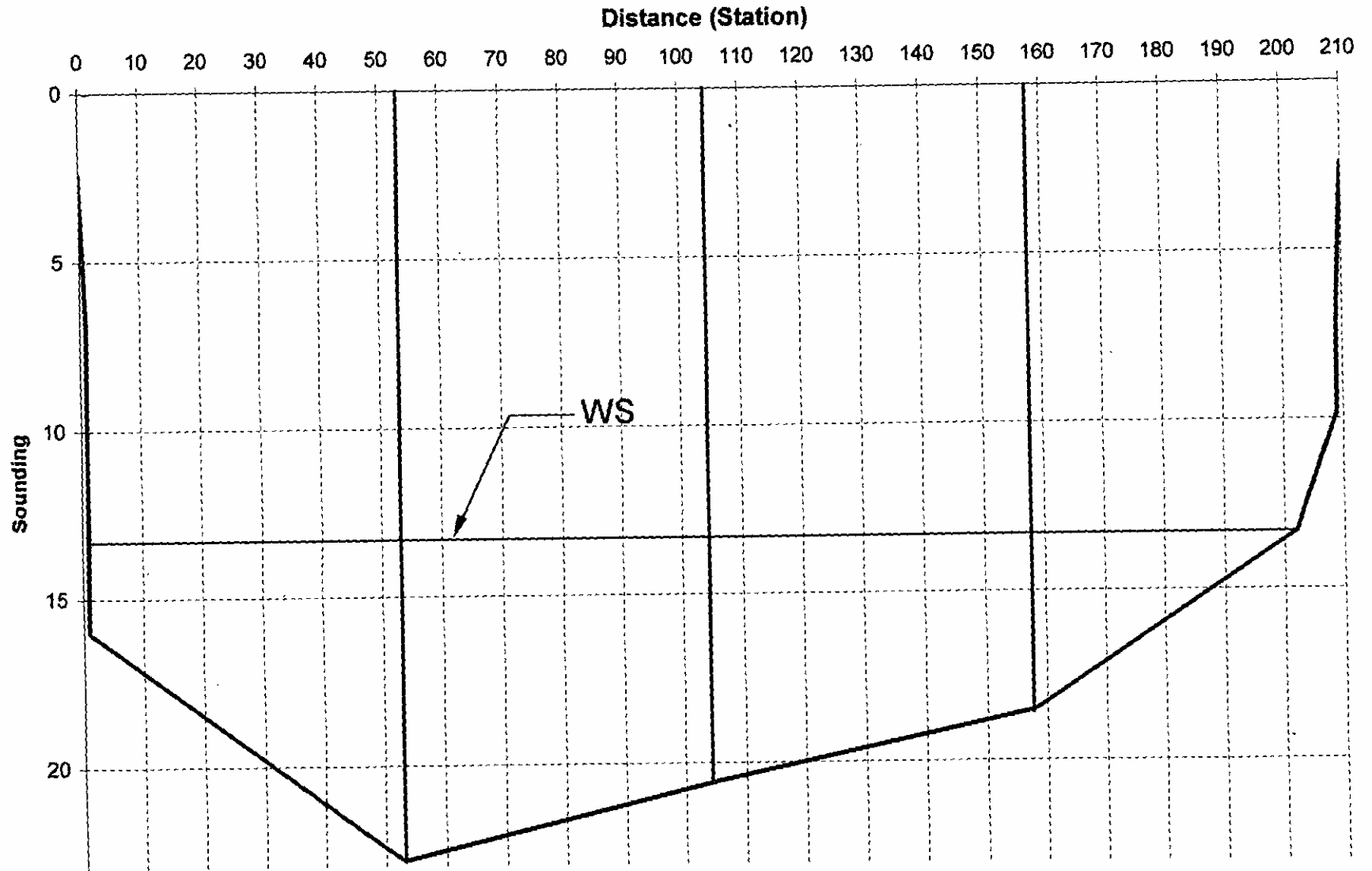
Date: 10-19-00

By: RDH Page

of

STREAMBED PROFILE (Downstream)

Top of Rail = 0 (Sounding)



STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

1-3-96 ROF
1123.93 BOF
6-24-98
1003N-4400A
BY S. D. PRICE

BRIDGE NO. 56 COUNTY JOHNSTON DATE 9/26/91

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

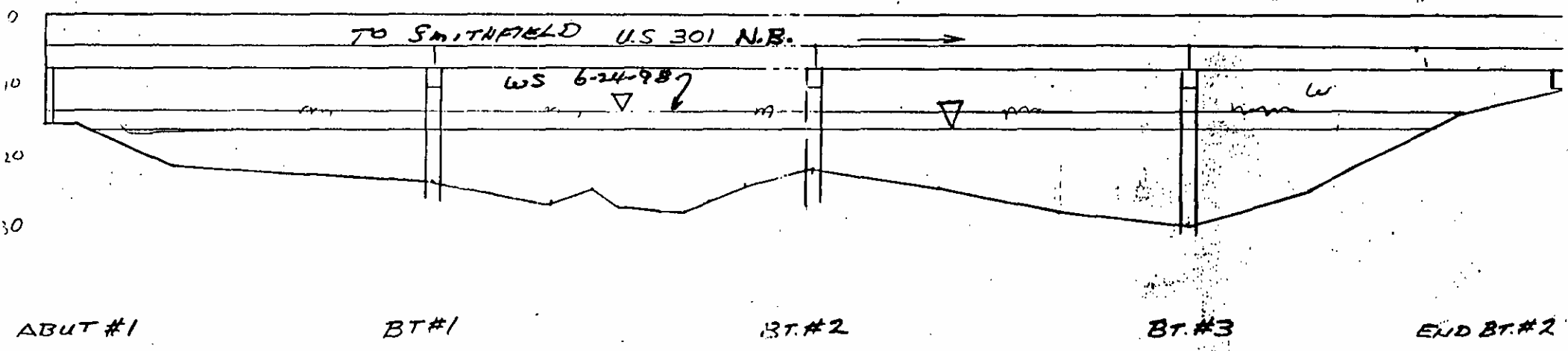
DISTANCE N. M. MARK TO TOP OF RAIL _____ LOCATION N. M. MARK _____

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 | 15.1 | Stream Bed | 0+00 | 16.5 | Stream Bed |
| 1+04 | 15.8 | W.S.E. | | | |
| 1+17 | 20.9 | | | | |
| 1+34 | 22.7 | | | | |
| 1+53 | 23.9 | E Bent 1 | 0+53 | 23.4 | E Bent 1 |
| 1+70 | 25.9 | | | | |
| 1+76 | 24.7 | | | | |
| 1+79 | 26.9 | | | | |
| 1+85 | 27.1 | | | | |
| 1+89 | 27.1 | | | | |
| 1+92 | 25.5 | | | | |
| 1+97 | 23.9 | | | | |
| 1+06 | 24.0 | E Bent 2 | 1+06 | 22.0 | E Bent 2 |
| 1+23 | 24.0 | | | | |
| 1+32 | 22.6 | | | | |
| 1+58 | 21.7 | E Bent 3 | 1+58 | 19.5 | E Bent 3 |
| 1+75 | 19.6 | | | | |
| 1+94 | 13.7 | W.S. & W.E. | | | |
| 2+10 | 10.5 | Ground at Cap | 2+10 | 10.2 | Ground at Cap |
| 2+10 | 7.8 | Top of Cap | | | |

7-28-97
BOF
1-3-96 BOF
6-24-98

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210



ABUT #1 BT#1 BT#2 BT#3 END BT#2

DOWNSTREAM PROFILE

DATUM: TOP OF RAIL

SCALE 1" = 20'

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

1-3-96 BOF
11-23-93 BOF

LOGON - 1400

BRIDGE NO. 56 COUNTY JOHNSTON DATE 9/26/91 BY S. D. PRICE

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

DISTANCE N. M. MARK TO TOP OF RAIL _____ LOCATION N. M. MARK _____

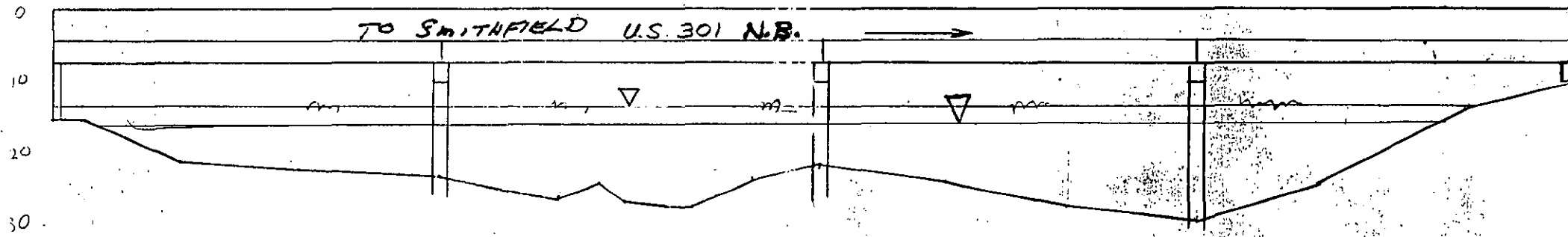
NOTE: DRAFT A STREAM BED PROFILE SKETCH AND RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS, C/L OF PIERS, WE, & WS, AND MAJOR CONTOUR CHANGES ON THE DOWNSTREAM SIDE. RECORD SOUNDINGS AT THE STREAM FACE OF ABUTMENTS AND C/L OF PIERS ON THE UPSTREAM SIDE.

DOWNSTREAM

UPSTREAM

| STATION | SOUNDING | DESCRIPTION | STATION | SOUNDING | DESCRIPTION |
|---------|----------|---------------|---------|----------|---------------|
| 0+00 | 15.1 | Stream Bed | 0+00 | 16.5 | Stream Bed |
| 1+04 | 15.8 | | | | |
| 1+17 | 20.9 | | | | |
| 1+34 | 22.7 | | | | |
| 1+53 | 23.2 | E Bent 1 | 0+53 | 23.2 | E Bent 1 |
| 1+70 | 25.9 | | | | |
| 1+76 | 24.7 | | | | |
| 1+79 | 26.9 | | | | |
| 1+85 | 27.1 | | | | |
| 1+89 | 27.1 | | | | |
| 1+92 | 25.5 | | | | |
| 1+97 | 23.9 | | | | |
| 1+06 | 21.8 | E Bent 2 | 1+06 | 22.0 | E Bent 2 |
| 1+23 | 21.0 | | | | |
| 1+35 | 22.6 | | | | |
| 1+58 | 19.2 | E Bent 3 | 1+58 | 19.5 | E Bent 3 |
| 1+75 | 19.6 | | | | |
| 1+96 | 13.7 | W.S. & W.E. | | | |
| 2+10 | 10.5 | Ground at Cap | 2+10 | 10.2 | Ground at Cap |
| 2+10 | 7.8 | Top of Cap | | | |

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210



ABUT #1

BT #1

BT #2

BT #3

END BT #2

DOWNSTREAM PROFILE

DATUM: TOP OF RAIL

SCALE 1" = 20'

STREAM BED SOUNDINGS

(SEE NEXT SHEET FOR PROFILE SKETCH)

1123.93 BOF

BRIDGE NO. 56 COUNTY JOHNSTON DATE 9/26/91 BY S.D. PRICE

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

DISTANCE N. M. MARK TO TOP OF RAIL _____ LOCATION N. M. MARK _____

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

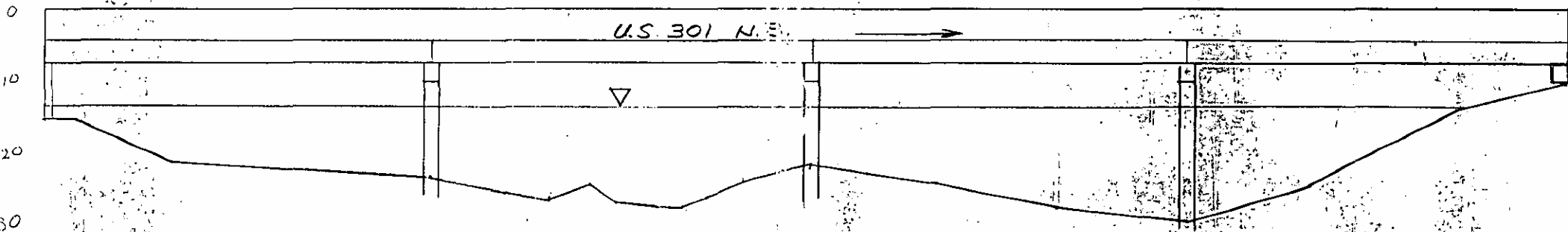
| STATION | SOUNDING | DESCRIPTION | STATION | SOUNDING | DESCRIPTION |
|---------|----------|---------------|---------|----------|---------------|
| 0+00 | 15.1 | Stream Bed | 0+00 | 16.4 | Stream Bed |
| +04 | 15.8 | | | | |
| +17 | 20.9 | | | | |
| +34 | 22.7 | | | | |
| +53 | 23.2 | E Bent 1 | 0+53 | 23.3 | E Bent 1 |
| +70 | 25.9 | | | | |
| +76 | 24.7 | | | | |
| +79 | 26.9 | | | | |
| +85 | 27.1 | | | | |
| +89 | 27.1 | | | | |
| +92 | 25.5 | | | | |
| +97 | 23.9 | | | | |
| 1+06 | 21.8 | E Bent 2 | 1+06 | 21.9 | E Bent 2 |
| +23 | 21.9 | | | | |
| +58 | 22.6 | | | | |
| +58 | 19.2 | E Bent 3 | 1+58 | 19.3 | E Bent 3 |
| +75 | 19.6 | | | | |
| +96 | 13.7 | W.S. & W.E. | | | |
| 2+10 | 10.5 | Ground at Cap | 2+10 | 10.2 | Ground at Cap |
| 2+10 | 7.8 | Top of Cap | | | |

56 JOHNSTON CO.

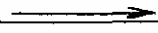
9-26-91

BOF

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210



U.S. 301 N.E.



ABUT #1

BT#1

BT#2

BT#3

END BT#2

DOWNSTREAM PROFILE

DATUM: TOP OF RAIL

SCALE 1" = 20'



SW ATTACHMENT SET TO SPEAR ON COMING TRAFFIC



SE ATTACHMENT SET TO SPEAR ON COMING TRAFFIC



LOOKING NORTH



LOOKING NORTH



LOOKING SOUTH



LOOKING SOUTH



EAST SIDE



WEST SIDE



WEST END OF BENT 3



END BENT 2 (SIMILAR TO END BENT 1)



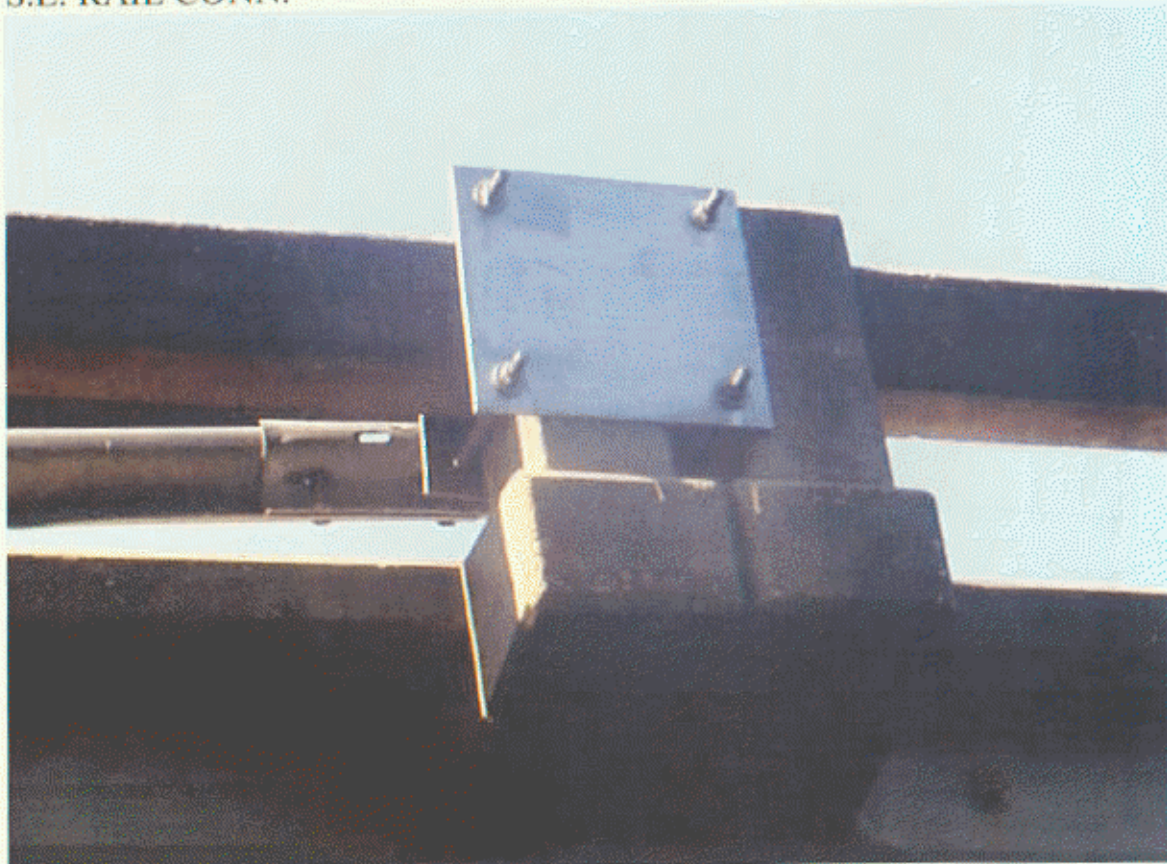
SPAN 2 UNDERSIDE (ALL SPANS SIMILAR)



PIER 3 (ALL PIERS SIMILAR)



S.E. RAIL CONN.



S.E. EXTERIOR RAIL CONN.



N.W. APPROACH RAIL



WEST SIDE UTILITY



DOWNSTREAM (EAST)



UPSTREAM (WEST)