



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

Attention:

# BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY ROBESON BRIDGE NUMBER 770162 INSPECTION CYCLE 2 YRS

ROUTE SR1726 ACROSS 195 M.P. 0

LOCATION 0.8 MI E JCT US301

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON PRESTRESSED CONCRETE GIRDERS

SUBSTRUCTURE E.BTS:RC CAPS/PRESTR.CONC.PILES;INT.BTS:RCP&B

SPANS 1@49';3@58';1@49'

LONGITUDE 78° 58' 11.3"

LATITUDE 34° 50' 51.5"

PRESENT CONDITION FAIR

INVENTORY RATING H5-0

INSPECTION DATE 03/07/2007

OPERATING RATING H5-0

PRESENT POSTING Not Posted

PROPOSED POSTING N.P.

COMPUTER UPDATE 5-8-07

ANALYSIS DATE 2-16-07

POSTING LETTER DATE \_\_\_\_\_

SUFFICIENCY RATING \_\_\_\_\_

OTHER SIGNS PRESENT \_\_\_\_\_

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



Photo Looking **WEST APPROACH LOOKING EAST**

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

IDENTIFICATION				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770162		SUFFICIENCY RATING =			23.3
(8) STRUCTURE NUMBER(FEDERAL)		000000001550162		STATUS =	Not Deficient		
INVENTORY ROUTE (ON/UNDER) - ON		131017260					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		6		(112)NBIS BRIDGE SYSTEM -			YES
(3) COUNTY CODE 155	(4) PLACE CODE			(104)HIGHWAY SYSTEM	NON NHS Route		0
(6) FEATURE INTERSECTED - I95				(26) FUNCTIONAL CLASS -	Local		09
(7) FACILITY CARRIED SR1726				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(9) LOCATION 0.8 MI E JCT US301				(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(11)MILEPOINT		0		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(16)LAT 34° 50' 51.5"	(17)LONG 78° 58' 11.3"			(103)TEMPORARY STRUCTURE -	Temporary		T
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(110)DESIGNATED NATIONAL NETWORK -	Not Part of		0
(99)BORDER BRIDGE STRUCTURE NO				(20) TOLL	On Free Road		3
<b>STRUCTURE TYPE AND MATERIAL</b>				(31) MAINTAIN -	State Highway Agency		01
(43) STRUCTURE TYPE MAIN: Prestressed Concrete				(22) OWNER -	State Highway Agency		01
TYPE - Stringer Multibeam or Girder	CODE	502		(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
(44) STRUCTURE TYPE APPR :				<b>CONDITION</b>			
TYPE -	CODE	0		(58) DECK			7
(45) NUMBER OF SPANS IN MAIN UNIT		5		(59) SUPERSTRUCTURE			4
(46) NUMBER OF APPROACH SPANS		0		(60) SUBSTRUCTURE			5
(107)DECK STRUCTURE TYPE - Concrete cast-in-place	CODE	1		(61) CHANNEL & CHANNEL PROTECTION			N
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS			N
(A) TYPE OF WEARING SURFACE - Concrete	CODE	1		<b>LOAD RATING AND POSTING</b>			
(B) TYPE OF MEMBRANE - None	CODE	0		(31) DESIGN LOAD	HS 20+MOD		6
(C) TYPE OF DECK PROTECTION - None	CODE	0		(64) OPERATING RATING -	HS-1		101
<b>AGE AND SERVICE</b>				(66) INVENTORY RATING -	HS-1		101
(27) YEAR BUILT		1959		(70) BRIDGE POSTING -	Posting Required		5
(106)YEAR RECONSTRUCTED		0		(41) STRUCTURE OPEN, POSTED ,OR CLOSED			D
(42) TYPE OF SERVICE : ON - Highway				DESCRIPTION -	Open Temporary Shoring		
UNDER - Highway	CODE	11		<b>APPRAISAL</b>			
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		4		(67) STRUCTURAL EVALUATION			2
(29) AVERAGE DAILY TRAFFIC		520		(68) DECK GEOMETRY			4
(30) YEAR OF ADT 2005	(109) TRUCK ADT PCT	6 %		(69) UNDERCLEARANCES,VERTI & HORIZ			2
(19) BYPASS OR DETOUR LENGTH		5 MI		(71) WATERWAY ADEQUACY			N
<b>GEOMETRIC DATA</b>				(72) APPROACH ROADWAY ALIGNMENT			8
(48) LENGTH OF MAXIMUM SPAN		58 FT		(36) TRAFFIC SAFETY FEATURES			0010
(49) STRUCTURE LENGTH		272 FT		(11)SCOUR CRITICAL BRIDGES			N
(50)CURB OR SIDEWALK: LEFT 1.1 FT RIGHT		1.1 FT		<b>PROPOSED IMPROVEMENTS</b>			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24.0 FT		(75) TYPE OF WORK -		CODE	311
(52) DECK WIDTH OUT TO OUT		26.5 FT		(76) LENGTH OF STRUCTURE IMPROVEMENT			272 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		19.0 FT		(94) BRIDGE IMPROVEMENT COST			\$582,000
(33) BRIDGE MEDIAN - No Median	CODE	0		(95) ROADWAY IMPROVEMENT COST			\$146,000
(34) SKEW 27° (35) STRUCTURE FLARED		NO		(96) TOTAL PROJECT COST			\$873,000
(10) INVENTORY ROUTE MIN VERT CLEAR		99 FT 99 IN		(97) YEAR OF IMPROVEMENT COST ESTIMATE			2007
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24.0 FT		(114)FUTURE ADT 1040		(115) YEAR FUTURE ADT	2025
(53) MIN VERT CLEAR OVER BRIDGE RDWY		99 FT 99 IN		<b>INSPECTIONS</b>			
(54) MIN VERT UNDERCLEAR REF Highway		14 FT 07 IN		(90) INSPECTION DATE			03/07/2007
(55) MIN LAT UNDERCLEAR RT REF Highway		8.7 FT		(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(56) MIN LAT UNDERCLEAR LT REF -		12.0 FT		A) FRACTURE CRIT DETAIL -	NO	A)	
<b>NAVIGATION DATA</b>				B) UNDERWATER INSP -	NO	B)	
(38) NAVIGATION CONTROL - Not Applicable	CODE	N		C) OTHER SPECIAL INSP	NO	C)	
(111)PIER PROTECTION - Not Applicable	CODE			SCOUR			
(39) NAVIGATION VERTICAL CLEARANCE		0					
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR							
(40) NAVIGATION HORIZONTAL CLEARANCE		0					



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

<b>IDENTIFICATION</b>				<b>CLASSIFICATION</b>			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	770162		SUFFICIENCY RATING =			23.3
(8) STRUCTURE NUMBER(FEDERAL)		000000001550162		STATUS =	Not Deficient		
INVENTORY ROUTE (ON/UNDER) - UNDER		211000950					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		6					
(3) COUNTY CODE	155	(4) PLACE CODE		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED -	I95			(104)HIGHWAY SYSTEM	NHS Route		1
(7) FACILITY CARRIED	SR1726			(26) FUNCTIONAL CLASS -	Arterial - Interstate		01
(9) LOCATION	0.8 MI E JCT US301			(100)STRAHNET HIGHWAY -	Interstate STRAHNET Route		1
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT	34° 50' 51.5"	(17)LONG	78° 58' 11.3"	(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 -	Is Part of		1
				(20) TOLL	On Free Road		3
				(31) MAINTAIN -	State Highway Agency		01
				(22) OWNER -	State Highway Agency		01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
<b>STRUCTURE TYPE AND MATERIAL</b>				<b>CONDITION</b>			
(43) STRUCTURE TYPE MAIN:	Prestressed Concrete			(58) DECK			7
TYPE -	Stringer Mutlibleam or Girder	CODE	502	(59) SUPERSTRUCTURE			4
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			5
TYPE -		CODE	0	(61) CHANNEL & CHANNEL PROTECTION			N
(45) NUMBER OF SPANS IN MAIN UNIT			5	(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS			0				
(107)DECK STRUCTURE TYPE -	Concrete cast-in-place	CODE	1	<b>LOAD RATING AND POSTING</b>			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	HS 20+MOD		6
(A) TYPE OF WEARING SURFACE -	Concrete	CODE	1	(64) OPERATING RATING -	HS-1		101
(B) TYPE OF MEMBRANE	None	CODE	0	(66) INVENTORY RATING -	HS-1		101
(C) TYPE OF DECK PROTECTION -	None	CODE	0	(70) BRIDGE POSTING -	Posting Required		5
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			D
				DESCRIPTION -	Open Temporary Shoring		
<b>AGE AND SERVICE</b>				<b>APPRAISAL</b>			
(27) YEAR BUILT			1959	(67) STRUCTURAL EVALUATION			2
(106)YEAR RECONSTRUCTED			0	(68) DECK GEOMETRY			4
(42) TYPE OF SERVICE : ON -	Highway			(69) UNDERCLEARANCES,VERTI & HORIZ			2
UNDER -	Highway	CODE	11	(71) WATERWAY ADEQUACY			N
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE		4	(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC			43000	(38) TRAFFIC SAFETY FEATURES			0010
(30) YEAR OF ADT	2005	(109) TRUCK ADT PCT	6 %	(11)SCOUR CRITICAL BRIDGES			N
(19) BYPASS OR DETOUR LENGTH			5 MI	<b>PROPOSED IMPROVEMENTS</b>			
<b>GEOMETRIC DATA</b>				(75) TYPE OF WORK -		CODE	311
(48) LENGTH OF MAXIMUM SPAN			58 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			272 FT
(49) STRUCTURE LENGTH			272 FT	(94) BRIDGE IMPROVEMENT COST			\$582,000
(50)CURB OR SIDEWALK: LEFT	1.1 FT RIGHT		1.1 FT	(95) ROADWAY IMPROVEMENT COST			\$146,000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			24.0 FT	(96) TOTAL PROJECT COST			\$873,000
(52) DECK WIDTH OUT TO OUT			26.5 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			2007
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			19.0 FT	(114)FUTURE ADT	1040	(115) YEAR FUTURE ADT	2025
(33) BRIDGE MEDIAN -	No Median	CODE	0	<b>INSPECTIONS</b>			
(34) SKEW	27° (35) STRUCTURE FLARED		NO	(90) INSPECTION DATE			03/07/2007
(10) INVENTORY ROUTE MIN VERT CLEAR			15 FT 00 IN	(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			45.0 FT	A) FRACTURE CRIT DETAIL -	NO	A)	
(53) MIN VERT CLEAR OVER BRIDGE RDWY			99 FT 99 IN	B) UNDERWATER INSP -	NO	B)	
(54) MIN VERT UNDERCLEAR REF	Highway		14 FT 07 IN	C) OTHER SPECIAL INSP	NO	C)	
(55) MIN LAT UNDERCLEAR RT REF	Highway		8.7 FT	SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -			12.0 FT				
<b>NAVIGATION DATA</b>							
(38) NAVIGATION CONTROL -	Not Applicable	CODE	N				
(111)PIER PROTECTION -	Not Applicable	CODE					
(39) NAVIGATION VERTICAL CLEARANCE			0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR							
(40) NAVIGATION HORIZONTAL CLEARANCE			0				

**BRIDGE INSPECTION RECORD AND SUMMARY**

INSPECTION TYPE ROUTINE

BRIDGE NO. 770162 COUNTY ROBESON

ROUTE SR1726

OVER I95

STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON PRESTRESSED CONCRETE GIRDERS

ROUTE ORIENTATION W - E

SPANS 1@49';3@58';1@49'

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

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



State of North Carolina  
Dept. of Transportation  
Division of Highways

## FIELD INSPECTION REPORT

### Bridge Inspection & Analysis

Team Leader: VWW

Assisted by: CRB

Item No	Grade	
2a	7	HAIRLINE TO 1/16 IN. TRANSVERSE CRACK ON DECK IN SPAN 3 , 6 FT. FROM BENT 3 EXPANSION JOINT IN EAST BOUND LANE RANDOM MAP CRACKING ON DECK WITH FEW LONGITUDINAL CRACKS HAIRLINE TO 1/32 IN. MOSTLY AT EXPANSION JOINTS.
3a	7	9 IN. X 4 IN. SPALL ON RAIL END POST AT SOUTHEAST CORNER 3 EXPOSED REBAR ON NORTH RAIL IN SPAN 4 NEAR T 4 EJ. SHALLOW CONCRETE COVER WITH MAXIMUM OF 4 IN. OF EXPOSURE.
10	5	SPALL 2 FT. X 10 IN. X 3 IN. DEEP WITH 2 EXPOSED CABLES WITH SOME STRANDS BROKEN ON BOTTOM FLANGE OF GIRDER 1 OVER 95 SOUTH BOUND. ONE EXPOSED CABLE ON BOTTOM ROW AND ONE EXPOSED CABLE ON THE HIGHER SECOND ROW . CAUSED BY VEHICULAR IMPACT TO NORTH BOTTOM CORNER OF GIRDER OVER OUTSIDE SOUTH BOUND LANE . 1/4 IN. TO 3/8 IN. X 3.5 FT. LONGITUDINAL CRACK DELAMINATED AROUND CRACK EXTENDS FROM SPALL TOWARDS BENT 1 ON BOTTOM AND NORTH FACE OF BOTTOM FLANGE. SPALL 14 IN. X 10 IN. X 4 IN. DEEP ON BOTTOM NORTH SIDE OF GIRDER 4 WITH 5 EXPOSED CABLES. 3 EXPOSED CABLES ON BOTTOM ROW AND 2 EXPOSED CABLES ON SECOND HIGHER ROW. 3 BOTTOM CABLES SHEARED INTO OVER 95 SOUTH BOUND. 18 IN. LONGITUDINAL CRACK EXTENDS FROM SPALL TOWARDS BENT 1 . APPEARS DELAMINATED AROUND CRACK. VEHICULAR SCAPE MARKS ON BOTTOM OF ALL GIRDERS IN SPAN 2 OVER 95 SOUTH BOUND SPALL 3 IN. X 4 IN. X 1/2 IN. DEEP ON BOTTOM FLANGE OF GIRDER 3 SPAN 2 OVER 95 SOUTH BOUND. 2 SMALL SPALLS 9 IN. X 4 IN. X 1/2 IN. DEEP AND 8 IN. 4 IN. X 1 IN. DEEP ON BOTTOM SOUTH CORNER OF GIRDER 4 OVER 95 NORTH BOUND VEHICULAR SCAPE MARKS ON BOTTOM OF ALL GIRDERS IN SPAN 4 OVER 95 NORTH BOUND. 3 IN. X 5 IN. X 1/2 IN. DEEP SPALL ON BOTTOM FLANGE OF GIRDER 2 AT BEARING PLATE SPAN 2 BENT 1
15	6	SURFACE RUST ON BEARING PLATES AT INTERIOR BENT 1 AT GIRDER 4 TYPICAL END BENT NO ANCHOR BOLT NUTS ON ALL BEARING ASSEMBLIES RANDOM AREA OF SURFACE RUST ON BEARING PLATES.
36a	5	13 IN. X 9 IN. SPALL WITH EXPOSED REBAR ON BOTTOM OF BENT 1 CAP BETWEEN COLUMNS VERTICAL AND HORIZONTAL HAIRLINE TO 1/32 IN. CRACKS ON SOUTH END OF BENT 4 CAP . CRACK EXTENDS ON TOP OF CAP. VERTICAL HAIRLINE CRACK ON NORTH END OF BENT 4 CAP AND EXTENDS TO TOP OF CAP. VERTICAL AND HORIZONTAL HAIRLINE TO 1/32 IN. CRACK ON SOUTH END OF BENT 1 CAP. CRACK EXTENDS ON TOP OF CAP. 5 HAIRLINE TO 1/32 IN. TRANSVERSE AND LONGITUDINAL CRACKS ON BOTTOM OF BENT 3 CAP. 16 IN. X 5 IN. DELAMINATION ON BOTTOM OF BENT 2 CAP BETWEEN COLUMNS
36c	8	NOT VISIBLE

Item No	Grade	
36e	8	NOT VISIBLE
50	6	TRANSVERSE CRACK IN ASPHALT WEARING SURFACE EAST APPROACH TRANSVERSE CRACKS SEALED ON ASPHALT WEARING SURFACE AT EAST APPROACH

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

BRIDGE: 770162

COUNTY: Robeson

DATE: 5/2/2007.

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		T	JRJ
S I & A ITEM 59 - SUPERSTRUCTURE		4	JRJ
S I & A ITEM 60 - SUBSTRUCTURE			
S I & A ITEM 64 OPERATING RATING	HS		
S I & A ITEM 66 - INVENTORY RATING	HS		

*0* BY: *RPG*  
*0* BY: *RPG*

**COMMENTS**

temporary repairs to girders 1 and 4 span 2

**BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS**

Bridge 770162

County ROBESON

Date 03/07/2007

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

Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
578	General Maintenance of superstructure	Man-Hours	500 <i>JR</i> <i>5-2-07</i>	GIRDERS 1 AND 4 HAVE VEHICULAR IMPACT IN SPAN 2 OVER 95 SB EXPOSING CABLES. THREE CABLES SHEARED INTON ON GIRDER 4. OTHER GIRDERS IN SPAN 4 95 NB HAVE IMPACT DAMAGE.	





TRANSVERSE CRACK IN ASPHALT WEARING SURFACE EAST APPROACH



9 IN. X 4 IN. SPALL ON RAIL END POST AT SOUTHEAST CORNER





SURFACE RUST ON BEARING PLATES AT INTERIOR BENT 1 AT GIRDER 4

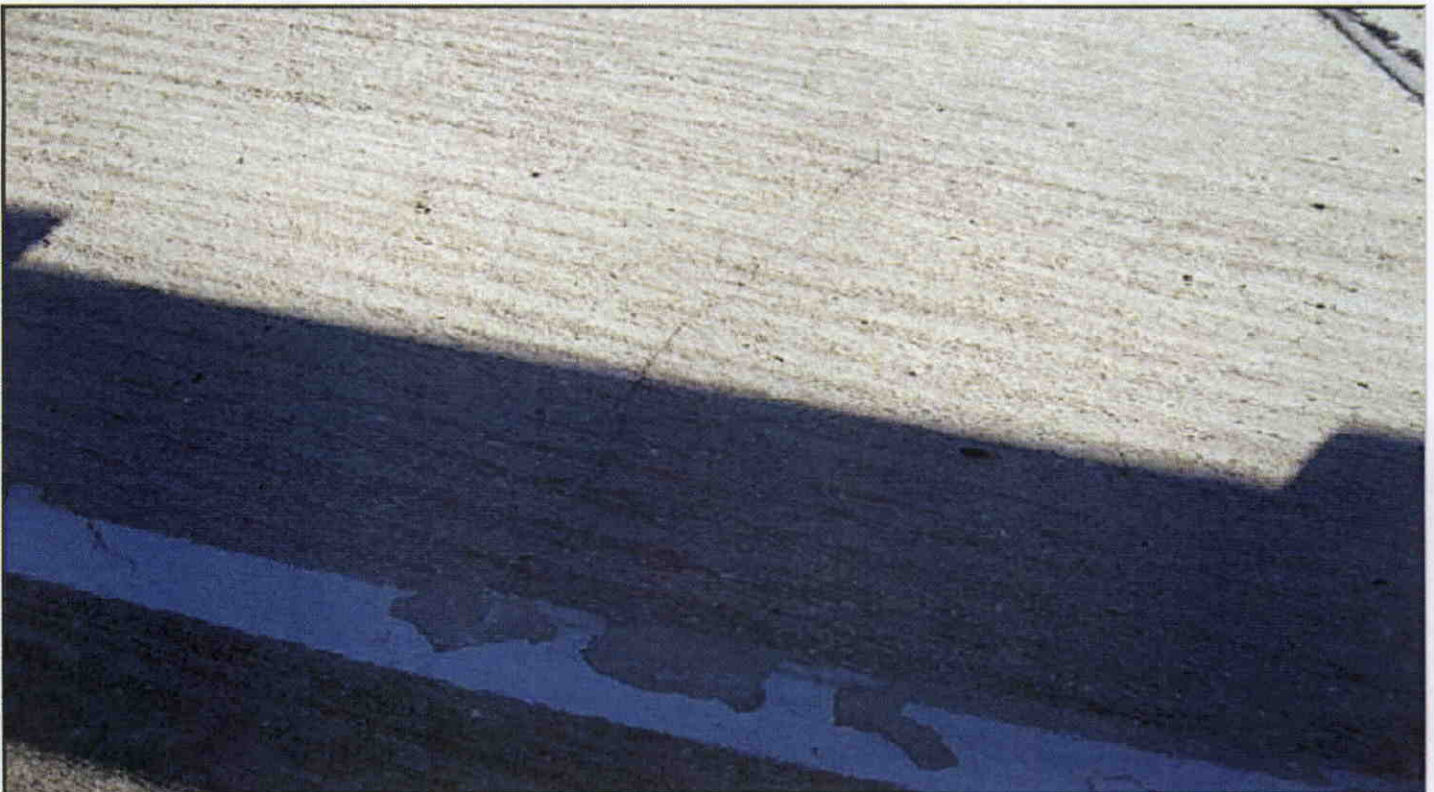


13 IN. X 9 IN. SPALL WITH EXPOSED REBAR ON BOTTOM OF BENT 1 CAP BETWEEN COLUMNS

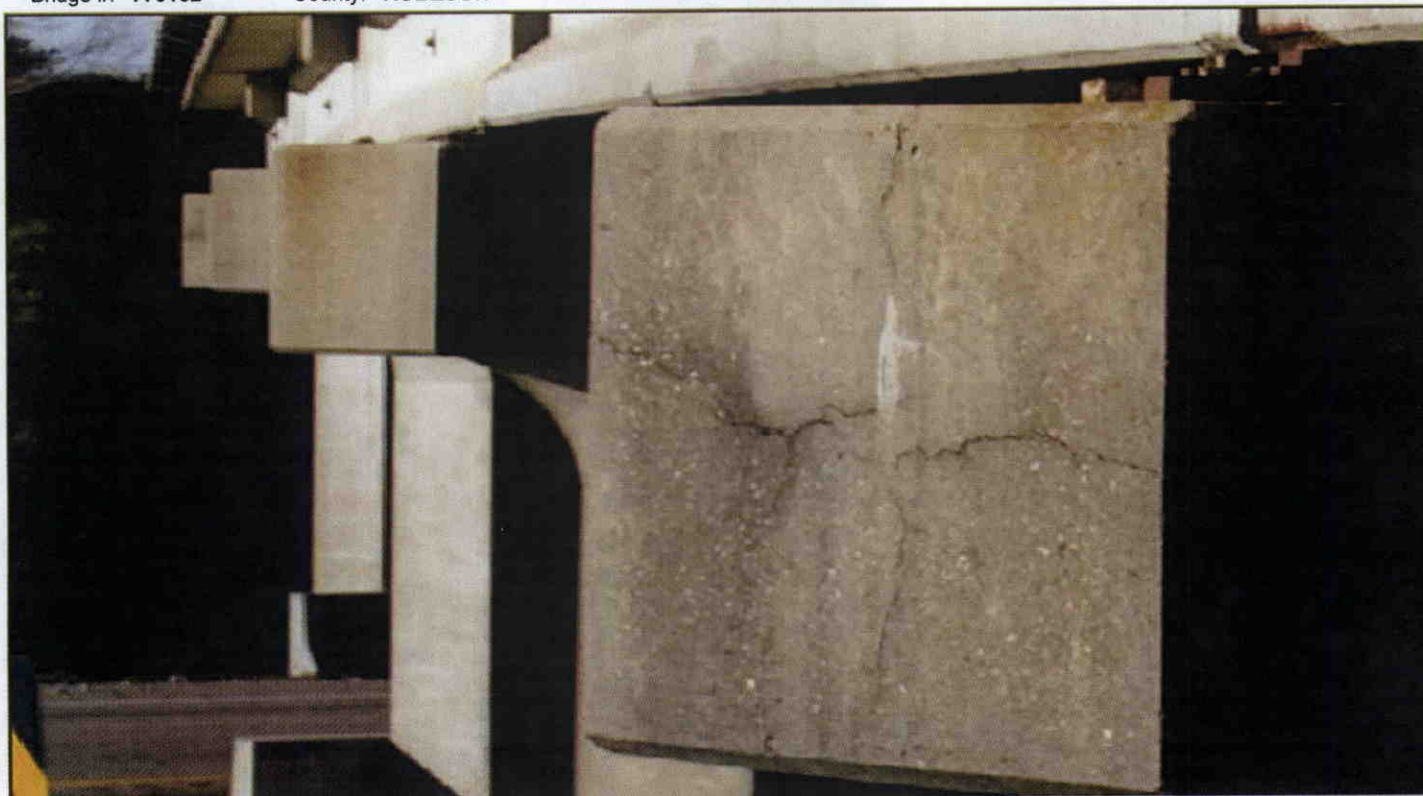




SPALL 2 FT. X 10 IN. X 3 IN. DEEP WITH 2 EXPOSED CABLES WITH SOME STRANDS BROKEN ON BOTTOM FLANGE OF GIRDER 1 OVER 95 SOUTH BOUND. CAUSED BY VEHICULAR



HAIRLINE TO 1/16 IN. TRANSVERSE CRACK ON DECK IN SPAN 3 6 FT. FROM BENT 3 EXPANSION JOINT IN EAST BOUND LANE



VERTICAL AND HORIZONTAL HAIRLINE TO 1/32 IN. CRACKS ON SOUTH END OF BENT 4 CAP.



VERTICAL AND HORIZONTAL HAIRLINE TO 1/32 IN. CRACK ON SOUTH END OF BENT 1 CAP





SPALL 14 IN. X 10 IN. X 4 IN. DEEP ON BOTTOM OF GIRDER 4 WITH 5 EXPOSED CABLES. 3 BOTTOM CABLES SHEARED INTO OVER 95 SOUTH BOUND. LONGITUDINAL

BRIDGE MAINTENANCE UNIT  
DATA ON EXISTING STRUCTURE

RUN DATE 05/08/2007

COUNTY : ROBESON DIV : 6 DIST : 1 STRUCTURE NUMBER : 770162 LENGTH : 272 FEET

ROUTE CARRIED : SR1726 FEATURE INTERSECTED : 195

LOCATED : 0.8 MI E JCT US301 BRIDGE NAME :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : FA ADT & YR : 520 2005 RAIL TYPE : LT 141 RT 141

BUILT : 1959 BY : SHC PROJ : 8.13962 FED.AID PROJ : DESIGN LOAD : HS 20+MOD

REHAB : 0 BY : PROJ : ALIGNMENT : TAN SKEW : 63 LANES : ON 2 UNDER 4

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

SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON PRESTRESSED CONCRETE GIRDERS

SUBSTRUCTURE : E.BTS:RC CAPS/PRESTR.CONC.PILES;INT.BTS:RCP&B

SPANS : 1@49';3@58';1@49'

BEAMS OR GIRDERS : 4 LINES PRESTR.CONC.GIRDERS@7' CTS.

FLOOR : 8 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 26.5 FT

CLEAR ROADWAY : 24.0 FT BETWEEN RAILS : 26.3 FT SIDEWALK OR CURB : LT 1.1 FT RT 1.1 FT

VERT.CL.OVER : 99 FT 99 IN VERT.CL.UNDER : 14 FT 07 IN HOR.CL.UNDER : 45.0 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : BEAM EXT. POSTED : SV 0 TTST 0 DATE

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

2ND OPENING : 14 FT 11 IN I-95 NBL 3RD OPENING : 4TH OPENING : 5TH OPENING :

REMARKS :



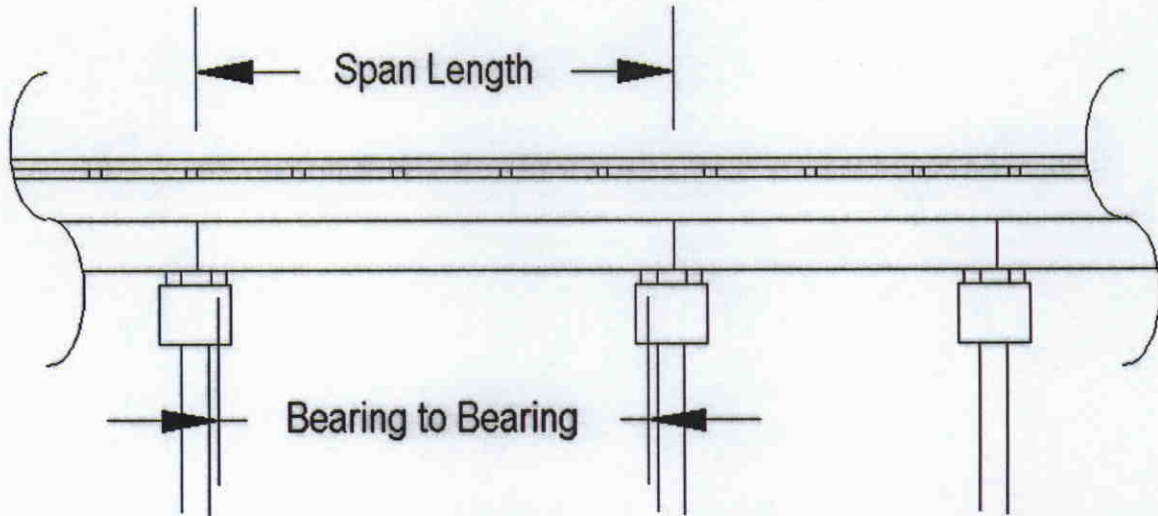
# Structure Data Worksheet

Bridge #: 770162

County: ROBESON

Date: 03/07/2007

By: VWW



Span	Length	Brg to Brg	Comments
1	49.0	SEE PLANS	
2	58.0	SEE PLANS	
3	58.0	SEE PLANS	
4	58.0	SEE PLANS	
5	49.0	SEE PLANS	

## Bridge Inspection Field Sketch



Roadway	19ft Wide	2 Paved Lanes	Looking East
Left Shoulder	4ft Wide		4ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail			
Right Guardrail			

**Title**

Approach

**Description**

Approach - Looking East

Bridge No: 770162

Drawn By: dlp

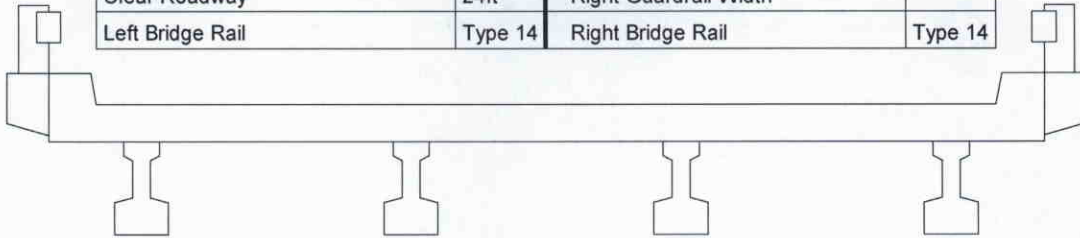
Date: 07/21/2005

File Name: S0098000248



# Bridge Inspection Field Sketch

Deck Width/Out to Out	26.5ft	Wearing Surface	
Between Rails	26.25ft	Median Width	
Curb Height	0.833ft	Median Height	
Top Rail to Deck/Wearing Surface	2.583ft	Left Guardrail Width	
Clear Roadway	24ft	Right Guardrail Width	
Left Bridge Rail	Type 14	Right Bridge Rail	Type 14



Measurements for Span #	1	Spans 2 thru 5 similar	
Deck Thickness	0.667	Left Overhang	2.75
Top of Rail to Bottom of Beam	<del>6.917</del>	Right Overhang	2.75

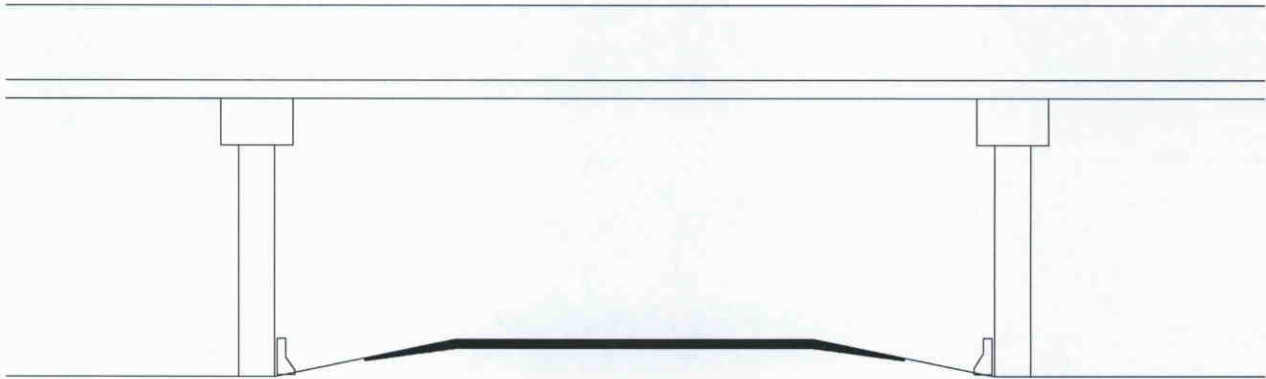
6.23' VWW 2007

Beam No	Beam Type	Spacing	Comments
1	PPC Girder	7 ft.	
2	PPC Girder	7 ft.	
3	PPC Girder	7 ft.	
4	PPC Girder		

P.P.C. Girders - See Plans

<b>Title</b> Superstructure		<b>Description</b> Span 1	
Bridge No: 770162	Drawn By: dlp	Date: 07/21/2005	File Name: S0098000249

## Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	All Lanes NorthBound
Left Shoulder	12ft Wide		Guardrail: 12ft from road
Right Shoulder	9ft Wide		Guardrail: 9ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	13.417ft		
Distance to Left Toe of Slope			
Distance to Right Bent	10.417ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	15ft	10ft from Left edge of road	at beam # 4
Minimum Vertical Clearance	14.917ft	0ft from Center of road	at beam # 4

**Title**

Underclearance

**Description**

Span 4

Bridge No: 770162

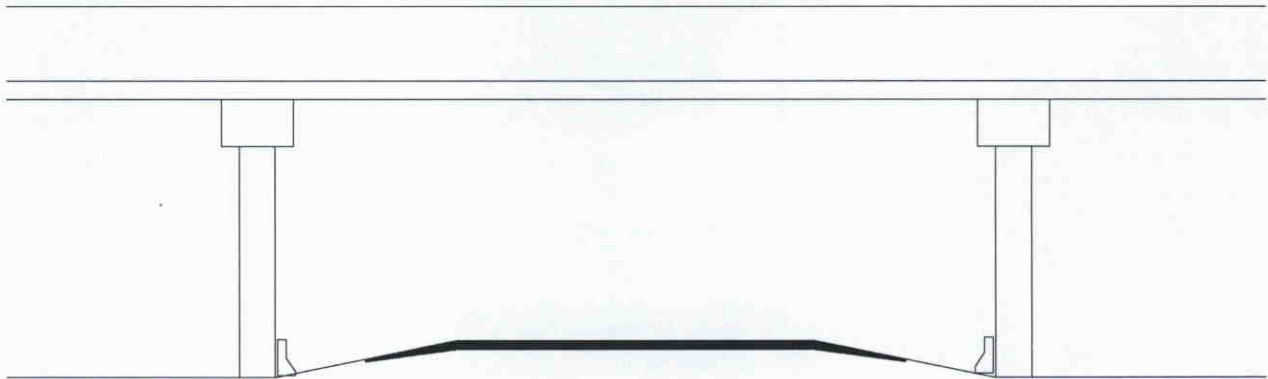
Drawn By: dlp

Date: 07/21/2005

File Name: S0098000251



## Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	All Lanes SouthBound
Left Shoulder	12ft Wide		Guardrail: 12ft from road
Right Shoulder	8.667ft Wide		Guardrail: 8.667ft from road
Left Turn Lane(s)			
Right Turn Lane(s)			
Distance to Left Bent	13.417ft		
Distance to Left Toe of Slope			
Distance to Right Bent	10.083ft		
Distance to Right Toe of Slope			
Max. Min. Vertical Clearance	14.667ft	10ft from Left edge of road	at beam # 1
Minimum Vertical Clearance	14.583ft	0ft from Center of road	at beam # 1

**Title**

Underclearance

**Description**

Span 2

Bridge No: 770162

Drawn By: dlp

Date: 07/21/2005

File Name: S0098000250

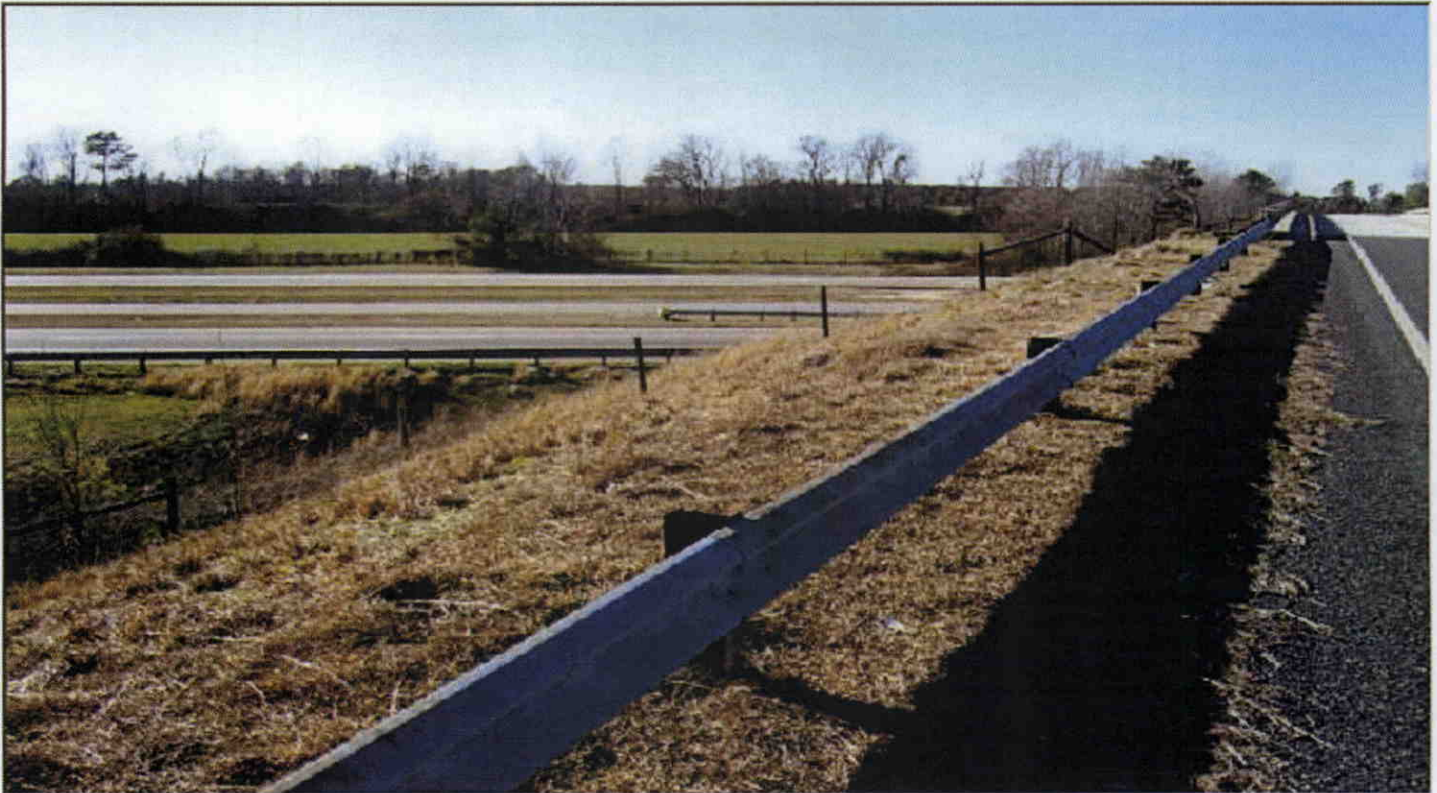


EAST APPROACH LOOKING WEST



GUARDRAIL TERMINATOR SOUTHEAST CORNER



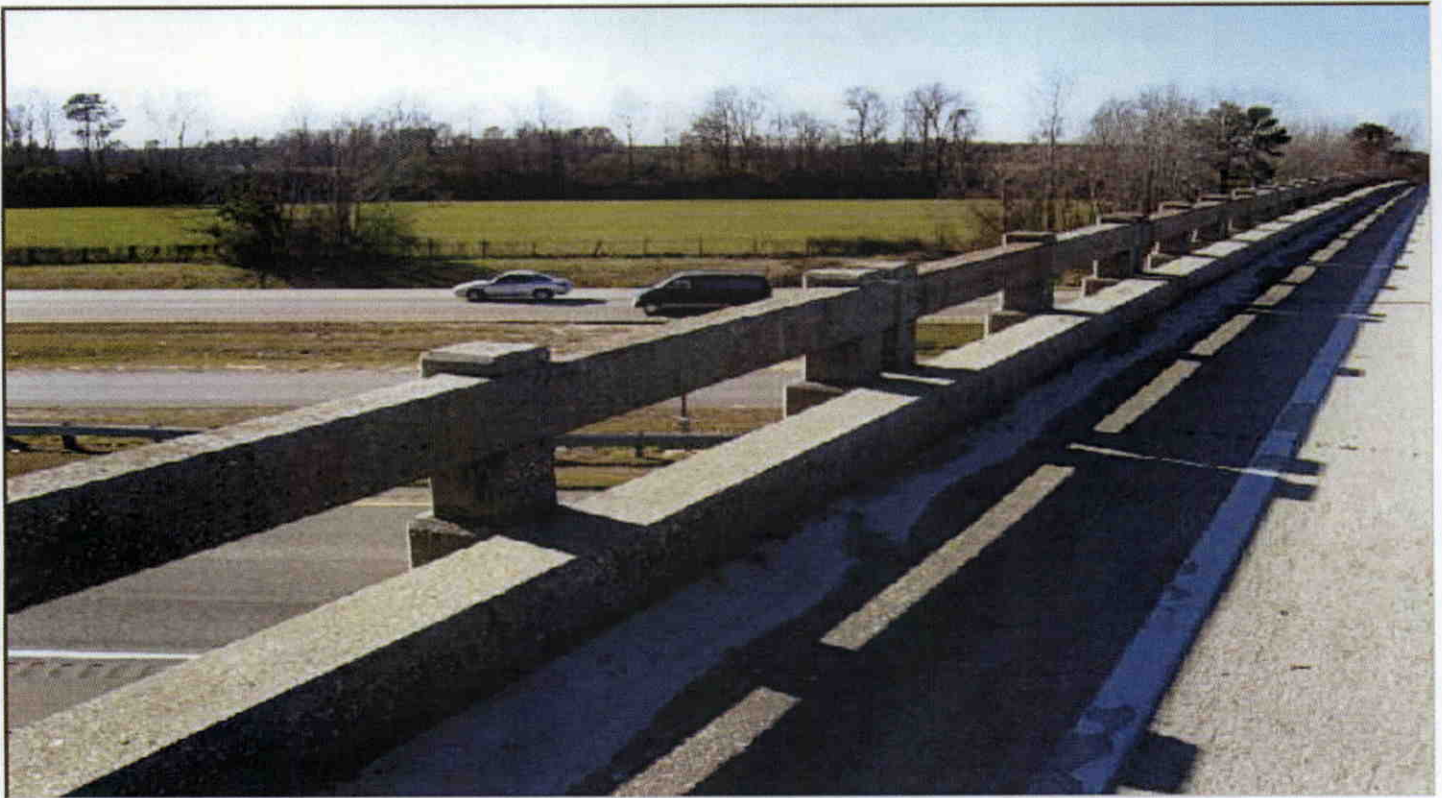


GUARDRAIL POST SPACING 12.5 FT. SOUTHEAST CORNER



GUARDRAIL ATTACHMENT NORTHEAST CORNER





TYPICAL RAIL



EXPANSION JOINT TYPICAL





SOUTH PROFILE



TYPICAL END BENT



TYPICAL BENT



BEARING ASSEMBLY





NORTH PROFILE



WEST APPROACH LOOKING EAST



UNDERSIDE OF DECK



2 VERTICAL CLEARANCE SIGNS 14 FT.-5 IN. ON 95 NB 0.1 MI.S





2 VERTICAL CLEARANCE SIGNS 14 FT.-5 IN. ON 95 SB 0.1 MI. NORTH