



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

Attention:

BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY VANCE BRIDGE NUMBER 900050 INSPECTION CYCLE 2 YRS

ROUTE I85 NBL ACROSS US158SBL.RAMP M.P. 215300

LOCATION 0.9 MI. N. JCT. NC39

SUPERSTRUCTURE REINF.CONC.DECK ON I-BEAMS

SUBSTRUCTURE EBTS:RC SPILL THRU;BTS:RCP&BEAM

SPANS 1@45';1@45'3;1@60'6;1@60'

LONGITUDE 78° 23' 44.2"

LATITUDE 36° 20' 44.8"

PRESENT CONDITION FAIR

INVENTORY RATING HS 19.5

INSPECTION DATE 03/22/2006

OPERATING RATING HS 32.5

PRESENT POSTING Not Posted

PROPOSED POSTING N.O.P.

COMPUTER UPDATE 7-28-06

ANALYSIS DATE 7-14-06

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 LOOKING NORTH

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 900050
(8) STRUCTURE NUMBER (FEDERAL) 000000001810050
(5) INVENTORY ROUTE (ON/UNDER) - ON = 111000850
(2) STATE HIGHWAY DEPARTMENT DISTRICT 05
(3) COUNTY CODE 181 (4) PLACE CODE 30660
(6) FEATURES INTERSECTED - US158SBL.RAMP
(7) FACILITY CARRIED - 185 NBL
(9) LOCATION - 0.9 MI. N. JCT. NC39
(11) MILEPOINT 215.300
(16) LAT 36 D 20 M 44.85 (17) LONG 078 D 23 M 44.28
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

SUFFICIENCY RATING = 75.2
STATUS = FUNCTIONALLY OBSOLETE

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

***** CLASSIFICATION *****

(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-P CODE 1
(108) WEARING SURFACE / PROTECTIVE SYSTEM:
A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
B) TYPE OF MEMBRANE - NONE CODE 0
C) TYPE OF DECK PROTECTION - EPOXY COAT REIN CODE 1

(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 - RT STR OF PARALLEL BRGS R
(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

***** AGE AND SERVICE *****

***** CONDITION *****

(27) YEAR BUILT 1957
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON - OVERPASS STR -INTERCHANGE
UNDER - HIGHWAY CODE 61
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 01
(29) AVERAGE DAILY TRAFFIC 016000
(30) YEAR OF ADT 2004 (109) TRUCK ADT PCT 16
(19) BYPASS, DETOUR LENGTH 00 MI

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

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

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

(48) LENGTH OF MAXIMUM SPAN 0061 FT
(49) STRUCTURE LENGTH 000211 FT
(50) CURB OR SIDEWALK: LEFT 01.7 FT RIGHT 01.7 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 028.0 FT
(52) DECK WIDTH OUT TO OUT 031.6 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 038 FT
(33) BRIDGE MEDIAN - OPEN MEDIAN CODE 1
(34) SKEW 42 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28.0 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
(54) MIN VERT UNDERCLEAR REF - HIGHWAY 16 FT 00 IN
(55) MIN LAT UNDERCLEAR RT REF - HIGHWAY 14.0 FT
(56) MIN LAT UNDERCLEAR LT 11.6 FT

(31) DESIGN LOAD - HS 20+MOD 6
(64) OPERATING RATING - LF HS-32 157
(66) INVENTORY RATING - LF HS-19 134
(70) BRIDGE POSTING - NO POSTING REQUIRED 5
(41) STRUCTURE OPEN, POSTED, OR CLOSED A
DESCRIPTION - OPEN, NO RESTRICTION

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

***** APPRAISAL *****

(38) NAVIGATION CONTROL - N.A., NO WATERWAY CODE N
(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

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY 3
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 6
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT B
(36) TRAFFIC SAFETY FEATURES 0010
(113) SCOUR CRITICAL BRIDGES N

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

(75) TYPE OF WORK - REPLACE FOR DEFICIENCY CODE 311
(76) LENGTH OF STRUCTURE IMPROVEMENT 000211 FT
(94) BRIDGE IMPROVEMENT COST \$ 684,000
(95) ROADWAY IMPROVEMENT COST \$ 171,000
(96) TOTAL PROJECT COST \$ 1,026,000
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2006
(114) FUTURE ADT 032000 (115) YEAR FUTURE ADT 2025

***** INSPECTIONS *****

(90) INSPECTION DATE 03/2006 (91) FREQUENCY 24 MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO - MO A)
B) UNDERWATER INSP - NO - MO B)
C) OTHER SPECIAL INSP - NO - MO C)
SCOUR - NOT EVALUATED

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE ROUTINE

BRIDGE NO. 900050 COUNTY VANCE

ROUTE 185 NBL

OVER US158SBL.RAMP

STRUCTURE TYPE REINF.CONC.DECK ON I-BEAMS

ROUTE ORIENTATION S - N

SPANS 1@45';1@45'3";1@60'6";1@60'

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

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

State of North Carolina
 Dept. of Transportation
 Division of Highways

FIELD INSPECTION REPORT

Bridge Inspection & Analysis

Team Leader: VMH

Assisted by: WCM

Item No	Grade	
1	4	<p>WEARING SURFACE 4</p> <p>THE EPOXY IS WORN HEAVILY THROUGHOUT.</p>
2a	5	<p>CONCRETE DECK 5</p> <p>HAIRLINE CRACKS AND SCALING WITH EXPOSED COARSE AGGREGATE WHERE EPOXY IS MISSING.</p> <p>THE BOTTOM OF OVERHANGS HAVE SURFACE TO 1/2 IN. DEEP POPOUTS WITH EXPOSED REBARS.</p> <p>SPAN 1</p> <p>THE BOTTOM OF DECK IS LOOSE AND SQUEEKING ADJACENT TO TOP BEAM FLANGES IN SPAN 1 WITH RUST AND WATER STAINS BETWEEN DECK AND TOP FLANGES AT THESE LOCATIONS.</p> <p>1 1/2 IN DIAMETER X 7 IN. DEEP HOLE IN BOTTOM OF DECK LOCATED 3 IN. RIGHT OF BEAM 2 AND 12 FT. FROM BENT 1 SPAN 1.</p> <p>40 IN. DIAMETER PATCH WITH 2 IN. SETTLEMENT IN SPAN 1 5 FT OUT FROM BENT 1 JOINT.</p> <p>SPAN 2</p> <p>18 IN. X 30 IN. SPALL WITH EXPOSED REBAR IN LEFT SIDE OF SPAN 2 OVERHANG .</p> <p>DECK EVALUATION FOUND CONTAMINATED CORE SAMPLES.</p>
3a	4	<p>CONCRETE RAILS 4</p> <p>HAIRLINE CRACKS AND SCALING WITH EXPOSED COARSE AGGREGATE IN FACES .</p> <p>THE RAILS HAVE BEEN PATCHED IN SPOTS.</p> <p>THE BOTTOM OF RAIL IS SPALLED 1 IN. DEEP IN SPOTS AT LEFT SIDE OF SPAN 3 WITH EXPOSED REBAR .</p> <p>COLLISION DAMAGE AT RIGHT SIDE OF ALL SPANS. RIGHT GUARDRAIL SPALLED AND BROKEN AT BENT 1. SEE PHOTOS</p>
3d	7	<p>STEEL RAIL 7</p> <p>ALL STEEL RAIL ATTACHMENT BOLTS ARE IN PLACE.</p>

Item No	Grade	
4	6	<p>8 FT. DAMAGE TO LT SIDE OF STEEL GUARDRAIL SOUTH END OF BRIDGE.</p> <p>CURBS 6</p> <p>HAIRLINE CRACKS AND SCALING IN FACES WITH EXPOSED COARSE AGGREGATE</p> <p>HAIRLINE TO 1/4 IN. WIDE CRACK IN THE TOP OF CURB AT RT SIDE SPAN 2. SEE PHOTO.</p>
6d	6	<p>STANDARD JOINTS 6</p> <p>THE FILLED JOINTS ARE CRACKED AND SETTLED IN SPOTS .</p> <p>SOME DIRT IN CRACKS IN JOINT SEALER.</p>
7	6	<p>DECK DEBRIS 6</p> <p>DEBRIS FROM CONCRETE RAIL DAMAGE SCATTERED ALONG CURBS ON ROADWAY. SEE PHOTO.</p>
10	7	<p>LONGITUDINAL BEAMS 7</p> <p>SURFACE TO 1/16 IN. DEEP PITS AND DISCOLORATION IN BEAMS .</p> <p>THE TOP FLANGES AND ENDS OF BEAMS ARE DISCOLORED AND RUSTY ADJACENT TO DECK IN SPAN 1 DUE TO WATER LEAKAGE THROUGH DECK . SEE PHOTOS.</p>
13	6	<p>END DIAPHRAGMS CURTAINWALLS 6</p> <p>HAIRLINE CRACKS AND DELAMINATION IN FACES . THE DIAPHRAGMS HAVE BEEN PATCHED IN SPOTS.</p> <p>12 IN X 3 IN. X 1 IN. DEEP SPALL WITH EXPOSED REBAR LOCATED OUTSIDE OF BEAM 1 AT END BENT 2 . SEE PHOTO.</p>
15	6	<p>BEARING ASSEMBLIES 6</p> <p>THE BEARING PLATES ARE RUSTY IN SPOTS .</p> <p>THE ANCHOR BOLTS ARE BROKEN AT BEAM 1 BENT 1 IN SPAN 1 .</p>
36a	6	<p>CONCRETE CAPS 6</p> <p>HAIRLINE CRACKS IN TOPS AND FACES OF CAPS .</p> <p>BENT 1</p> <p>TWO 12 IN. DIAMETER X 1 1/2 IN. DEEP SPALLS IN BOTTOM OF BENT 1 CAP BETWEEN COLUMNS 2 AND 3 .</p> <p>1/8 IN. WIDE X 3 FT. LONGITUDINAL CRACK IN FACE OF BENT 1 CAP ON SPAN 2 SIDE LOCATED 6 IN. DOWN FROM TOP EDGE.</p> <p>BENT 3</p>

Item No	Grade	
		<p>THE CONCRETE IS HEAVILY DELAMINATED IN THIS REGION.</p> <p>12 IN. HIGH X 6 IN. WIDE X 1 IN. DEEP SPALL IN RIGHT END OF BENT 3 CAP WITH EXPOSED REBAR .</p> <p>9 IN. DIAMETER X 1/2 IN. DEEP SPALL IN FACE OF BENT 3 CAP UNDER BEAM 2 SPAN 3 SIDE .</p> <p>8 IN. DIAMETER X 1 IN. DEEP SPALL IN FACE OF BENT 3 SPAN 3 SIDE OF CAP UNDER BEAM 3 .</p> <p>SEE PHOTOS.</p>
36b	6	<p>CONCRETE COLUMNS 6</p> <p>HAIRLINE CRACKS AND DELAMINATION IN FACES OF COLUMNS.</p> <p>12 IN. HIGH CRACKED AND DELAMINATED REGION IN COLUMN 3 BENT 3 SPAN 3 SIDE AT BOTTOM OF CAP FILLET.</p>
36d	6	<p>CONCRETE WINGWALLS 6</p> <p>HAIRLINE CRACKS AND SCALING IN FACES .</p> <p>LEFT WINGWALL AT END BENT 2 IS SPALLED 3 IN. WIDE X 12IN. LONG WITH EXPOSED REBAR .</p>
39	6	<p>SLOPE PROTECTION 6</p> <p>1/2 IN. WIDE CRACKS IN SLOPES AND BERMS WITH UNEVENNESS .</p> <p>1 IN. VERTICAL MISALIGNMENT OF SLAB UNITS DUE TO SETTLED FILL MATERIAL.</p>
50	6	<p>APPROACH ROADWAY CONDITION 6</p> <p>SOME UNEVENNESS IN APPROACHES .</p> <p>THE LEFT APPROACH SHOULDERS AT BOTH ENDS OF BRIDGE ARE SETTLED 6 IN. ADJACENT TO APPROACH SLABS.</p>
52	7	<p>PAINT SYSTEM 7</p> <p>SURFACE RUST ON EDGES OF BEAM FALNGES AND ENDS OF BEAMS OVER BEARING ASSEMBLIES.</p>
54	7	<p>RESPONCE TO LIVE LOAD 7</p> <p>VEHICLES BOUNCE ONTO BRIDGE AT LEFT SIDE OF END BENT 1.</p>

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge **900050**

County **VANCE**

Date **03/22/2006**

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

Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
556	Bridge approaches, surfacing or pavement replacement or repair	Man-Hours	32	THE LEFT APPROACH SHOULDERS AT BOTH ENDS OF BRIDGE ARE SETTLED 6 IN. ADJACENT TO APPROACH SLABS.	
583	Maintenance of concrete pier and abutments	Man-Hours	64	TWO 12 IN. DIAMETER X 1 1/2 IN. DEEP SPALLS IN BOTTOM OF BENT 1 CAP BETWEEN COLUMNS 2 AND 3. 1/8 IN. WIDE X 3 FT. LONGITUDINAL CRACK IN FACE OF BENT 1 CAP ON SPAN 2 SIDE LOCATED 6 IN. DOWN FROM TOP EDGE. BENT 3 THE CONCRETE IS HEAVILY DELAMINATED IN THIS REGION. 12 IN. HIGH X 6 IN. WIDE X 1 IN. DEEP SPALL IN RIGHT END OF BENT 3 CAP WITH EXPOSED REBAR. 9 IN. DIAMETER X 1/2 IN. DEEP SPALL IN FACE OF BENT 3 CAP UNDER BEAM 2 SPAN 3 SIDE. 8 IN. DIAMETER X 1 IN. DEEP SP	
560	Maintenance and repairs to concrete bridge floors	Sq-ft	5900	1 1/2 IN DIAMETER X 7 IN. DEEP HOLE IN BOTTOM OF DECK LOCATED 3 IN. RIGHT OF BEAM 2 AND 12 FT. FROM BENT 1 SPAN 1. 40 IN. DIAMETER PATCH WITH 2 IN. SETTLEMENT IN SPAN 1 5 FT OUT FROM BENT 1 JOINT. SPAN 2 18 IN. X 30 IN. SPALL WITH EXPOSED REBAR IN LEFT SIDE OF SPAN 2 OVERHANG. HAIRLINE CRACKS AND SCALING WITH EXPOSED COARSE AGGREGATE WHERE EPOXY IS MISSING.	
566	Maintenance or repairs to concrete bridge handrails	Lin-ft	45	THE BOTTOM OF RAIL IS SPALLED 1 IN. DEEP IN SPOTS AT LEFT SIDE OF SPAN 3 WITH EXPOSED REBAR. RIGHT GUARDRAIL SPALLED AND BROKEN AT BENT 1. SEE PHOTOS	
568	Maintenance or repairs to steel bridge handrails	Lin-ft	12	8 FT. DAMAGE TO LT SIDE OF STEEL GUARDRAIL SOUTH END OF BRIDGE.	
554	Partial clenaing and partial painting of structural steel	Man-Hours	32	SURFACE RUST ON EDGES OF BEAM FALNGES AND ENDS OF BEAMS OVER BEARING ASSEMBLIES.	
602	Sweep or Washing	Man-Hours	16	DEBRIS FROM CONCRETE RAIL DAMAGE SCATTERED ALONG CURBS ON ROADWAY. SEE PHOTO.	

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Condition Photos



GUARDRAIL DAMAGE AT LEFT SIDE OF APPROACH 1



COLLISION DAMAGE AT RIGHT ENDPOST OF END BENT 1



SPALL IN GUARDRAIL POST AT RIGHT SIDE ATTACHMENT END BENT 1



GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 1 AT BENT 1



GUARDRAIL DAMAGE AT RIGHT SIDE OF SPAN 2



HAIRLINE CRACKS IN SPAN 1 SIDE FACE OF BENT 1 BAY 3

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Condition Photos



CRACKS WITH EFFLO LEAKAGE IN BOTTOM OF DECK BAY 3 SPAN 1



CRACKS AND SPALLS IN BAY 3 DIAPHRAGM OF SPAN 1 AT BENT 1



RUST POWDER STAIN IN BOTTOM OF DECK AT BEAM 3 SPAN 1 AT BENT 1



SPALL WITH EXPOSED REBAR IN LEFT DIAPHRAGM AT BENT 2



SPALL WITH EXPOSED REBAR IN BOTTOM OF LEFT OVERHANG SPAN 2



SPALL WITH EXPOSED REBAR IN BOTTOM OF RIGHT OVERHANG SPAN 3



LONGITUDINAL CRACK IN FACE OF SPAN 3 SIDE OF BENT 3 CAP AT BAY 3



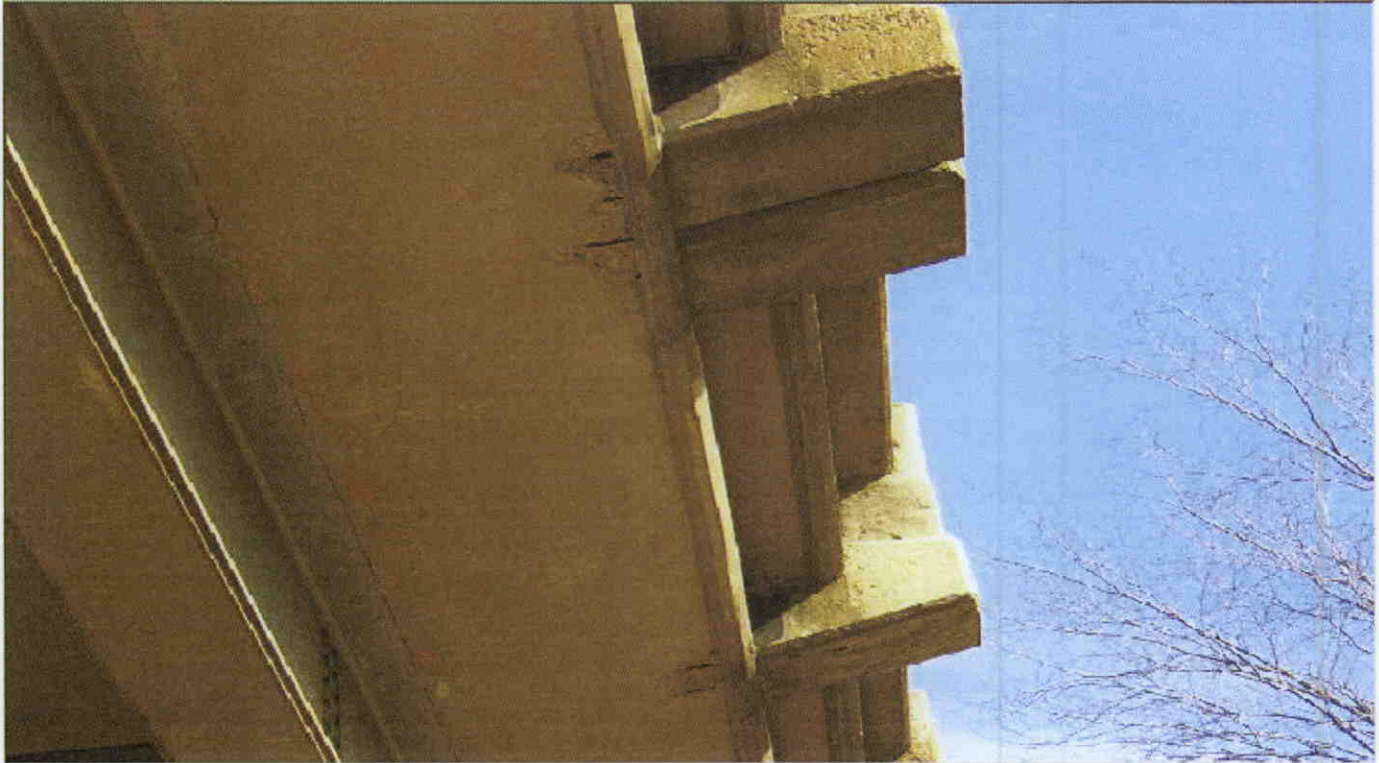
SPALL WITH EXPOSED REBAR IN FACE OF SPAN 3 SIDE OF BENT 3 AT BEAM 3



SPALL WITH EXPOSED REBAR IN RIGHT END OF BENT 3 CAP



SPALLS CRACKS AND DELAMINATION IN RIGHT SIDE OF COLUMN 3 BENT 3



SPALLS WITH EXPOSED REBAR IN BOTTOM OF RIGHT OVERHANG OF SPAN 4



MAP CRACK IN TOP OF DECK SPAN 4

OTHERS SIMILAR

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Condition Photos



TRANSVERSE AND MAP CRACKS AND SCALING WITH EXPOSED COARSE AGGREGATE IN TOP OF DECK SPAN 3



MAP CRACKS AND SCALING WITH EXPOSED COARSE AGGREGATE IN TOP OF DECK SPAN 2

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Condition Photos



PATCH AND SETTLEMENT IN TOP OF DECK SPAN 1



DEBRIS ON RIGHT SIDE



CRACKED CURB AT RIGHT SIDE OF SPAN 2 AT BENT 2



TRANSVERSE CRACKS IN TOP OF DECK SPAN 1

B80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 07/31/06

COUNTY: DIV.: DIST.: STRUCTURE NUMBER: LENGTH:
VANCE 05 3 90 0050 211 FEET

ROUTE CARRIED: FEATURE INTERSECTED:
I85 NBL US158SBL.RAMP

LOCATED: BRIDGE NAME:
0.9 MI. N. JCT. NC39 -----

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:
IU FA FA 16000 04 LT 111 RT 111

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:
1957 SHC 8.14725 I-668(7) HS20+MOD

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:
----- LT. 132 ON 02 UNDER 01

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

SUPERSTRUCTURE:
REINF.CONC.DECK ON I-BEAMS

SUBSTRUCTURE:
EBTS:RC SPILL THRU;BTS:RCP&BEAM

SPANS:
1@45';1@45'3;1@60'6;1@60'

BEAMS OR GIRDERS:
4 LINES 36 I-BEAMS @ 8' CENTERS

FLOOR: ENCROACHMENTS: DECK (OUT TO OUT):
7.25 RC/NO AWS ----- 031.6

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:
028.0 031 .4 LT 01.7 RT 01.7

VERT.CL.OVER: VERT.CL.UNDER: HOR.CL.UNDER: SPECIAL PERMIT:
99 FT 99 IN 16 FT 00 IN 41.7 FT ---

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:
HS- 19 HS- 32 ----- SV -- TTST -- DATE -- --

SYSTEM: GREEN LINE ROUTE:
8 URBAN-INTERSTATE YES

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

REMARKS:

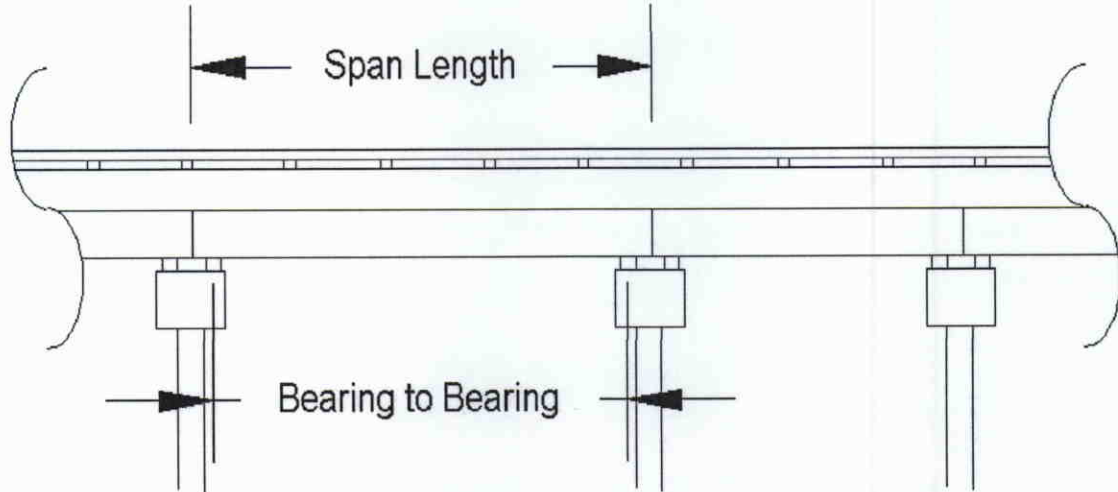
Structure Data Worksheet

Bridge #: 900050

County: VANCE

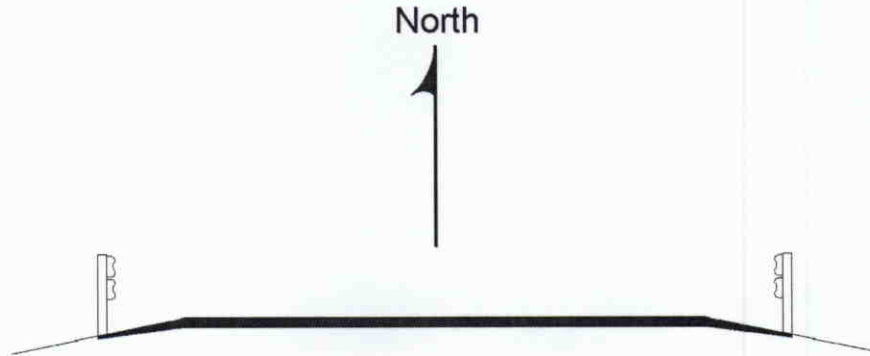
Date: 03/22/2006

By: VMH



Span	Length	Brg to Brg	Comments
1	45 ft.		
2	45.25 ft.		
3	60.5 ft.		
4	60 ft.		

Bridge Inspection Field Sketch



Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	2ft Wide		2ft Unpaved
Right Shoulder	4ft Wide		4ft Unpaved
Left Guardrail	2ft from road		
Right Guardrail	4ft from road		

Title

APPROACH ROADWAY

Description

APPROACH ROADWAY

Bridge No: 900050

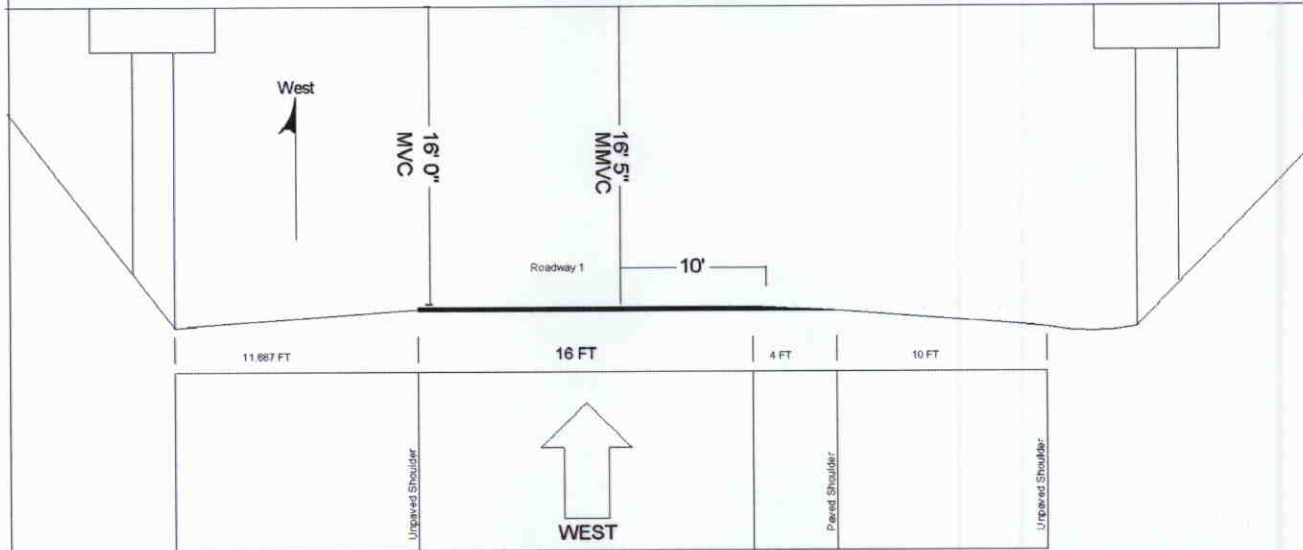
Drawn By: WCM

Date: 03/01/2006

File Name: S0026001956

Bridge Inspection Field Sketch

SPAN 3 BEAM 1

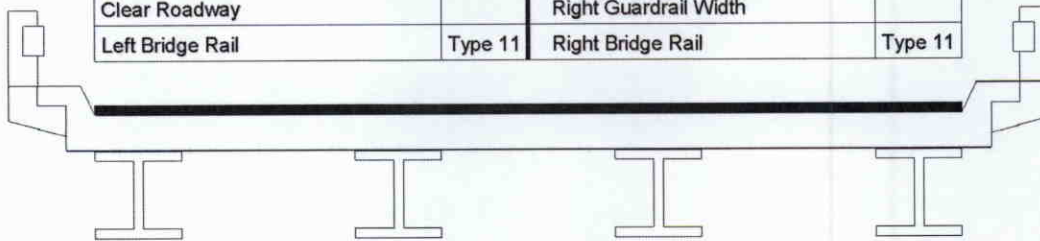


Roadway 1	Distance to Left Guardrail
	Distance to Right Guardrail
	Distance to Left Toe of Slope
	Distance to Left Bent or Columns 11.667 FT
	Distance to Right Toe of Slope
	Distance to Right Bent or Columns 14 FT
	Maximum Minimum Vertical Clearance 16.417 FT @ 10 Measured From RIGHT EDGE on Beam No 1
	Minimum Vertical Clearance 16 FT @ 0 Measured From LEFT EDGE on Beam No 1

Title		Description	
CLEARANCES		CLEARANCES	
Bridge No: 900050	Drawn By: WCM	Date: 03/01/2006	File Name: S0026001959

Bridge Inspection Field Sketch

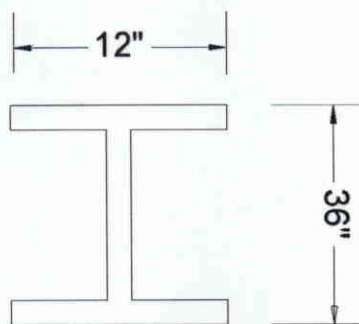
Deck Width/Out to Out	31.583ft	Wearing Surface	0ft
Between Rails	31.417ft	Median Width	
Curb Height	.833ft	Median Height	
Top Rail to Deck/Wearing Surface	2.5ft	Left Guardrail Width	
Clear Roadway		Right Guardrail Width	
Left Bridge Rail	Type 11	Right Bridge Rail	Type 11



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	.604	Left Overhang	3.833
Top of Rail to Bottom of Beam	6.333	Right Overhang	3.833

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	8.0ft	12 in. X 36 in. I BEAM
2	Steel I Beam	8.0ft	12 in. X 36 in. I BEAM
3	Steel I Beam	8.0ft	12 in. X 36 in. I BEAM
4	Steel I Beam		12 in. X 36 in. I BEAM

SEE PLANS FOR SUBSTRUCTURE DETAILS



Title TYPICAL SECTION		Description TYPICAL SECTION	
Bridge No: 900050	Drawn By: WCM	Date: 03/01/2006	File Name: S0026001957

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



RIGHT GUARDRAIL TERMINAL AT APPROACH 1 OTHER TERMINALS SIMILAR LEFT SIDE OF APPROACH 1 CONTINUOUS



LOOKING NORTH



APPROACH 1 SLAB



RIGHT GUARDRAIL ATTACHMENT AT END BENT 1 OTHERS SIMILAR



SUPERSTRUCTURE OVER RIGHT SIDE OF BENT 1



END BENT 1

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



SUPERSTRUCTURE OF SPAN 1



BEARING AT BEAM 2 BENT 1



BENT 2 OTHERS SIMILAR



SUPERSTRUCTURE OF SPAN 2 OTHERS SIMILAR

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



END BENT 2



LOOKING SOUTH

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



APPROACH 2



JOINT AT END BENT 2 END BENT 1 SIMILAR



TOP OF DECK SPAN 4



GUARDRAIL REPAIR AT RIGHT SIDE OF SPAN 4

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



JOINT IN TOP OF DECK OVER BENT 3



LOOKING WEST

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



LOOKING EAST



JOINT IN TOP OF DECK OVER BENT 2

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



JOINT IN TOP OF DECK OVER BENT 1



GUARDRAIL REPAIR AT LEFT SIDE OF END BENT 2

Bridge #: 900050

County: VANCE

Date: 03/22/2006

Structure Photos



EAST SIDE LOOKING WEST



WEST SIDE LOOKING EAST