



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY WAKE BRIDGE NUMBER 910252 INSPECTION CYCLE 2 YRS
ROUTE RIDGE ROAD ACROSS I440 M.P. 6000

LOCATION 0.1 MI.S.US70

SUPERSTRUCTURE REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE EBTS: RC CAPS/SPREAD FTGS IBTS:RCP&B/ SPREAD FTGS.

SPANS 1@60'6;2@82'6;2@56'6

LONGITUDE 78° 40' 22.83"

LATITUDE 35° 50' 22.32"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 09/27/2012

OPERATING RATING

PRESENT POSTING Not Posted **NOT POSTED**

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT NONE



LOOKING EAST

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

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

Run Date: 11/01/2012

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	910252	SUFFICIENCY RATING =		76.5
(8) STRUCTURE NUMBER(FEDERAL)	000000001830252	STATUS =		Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	50000000				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	1				
(3) COUNTY CODE 183	(4) PLACE CODE 55000				
(6) FEATURE INTERSECTED - I440					
(7) FACILITY CARRIED RIDGE ROAD					
(9) LOCATION 0.1 MI.S.US70					
(11)MILEPOINT	6				
(16)LAT 35° 50' 22.32"	(17)LONG 78° 40' 22.83"				
(98)BORDER BRIDGE STATE CODE	PCT SHARE				
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL				CLASSIFICATION	
(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	5				
(46) NUMBER OF APPROACH SPANS					
(107)DECK STRUCTURE TYPE - 1	CODE				
(108)WEARING SURFACE / PROTECTIVE SYSTEM :					
(A) TYPE OF WEARING SURFACE -	CODE				
(B) TYPE OF MEMBRANE -	CODE				
(C) TYPE OF DECK PROTECTION -	CODE				
AGE AND SERVICE				CONDITION	
(27) YEAR BUILT	1960				
(106)YEAR RECONSTRUCTED					
(42) TYPE OF SERVICE : ON - Overpass - Interchange					
UNDER - Highway	CODE 61				
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0				
(29) AVERAGE DAILY TRAFFIC	2000				
(30) YEAR OF ADT 1986	(109) TRUCK ADT PCT 7%				
(19) BYPASS OR DETOUR LENGTH	0 MI				
GEOMETRIC DATA				LOAD RATING AND POSTING	
(48) LENGTH OF MAXIMUM SPAN	82 FT				
(49) STRUCTURE LENGTH	339 FT				
(50)CURB OR SIDEWALK: LEFT 1.625 FT RIGHT 1.625 FT					
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28 FT				
(52) DECK WIDTH OUT TO OUT	33.417 FT				
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	27 FT				
(33) BRIDGE MEDIAN - No Median	CODE 0				
(34) SKEW 46°	(35) STRUCTURE FLARED 0				
(10) INVENTORY ROUTE MIN VERT CLEAR	20.33 FT				
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28 FT				
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT				
(54) MIN VERT UNDERCLEAR REF Highway	18.166 FT				
(55) MIN LAT UNDERCLEAR RT REF Highway	21.667 FT				
(56) MIN LAT UNDERCLEAR LT REF -	3.333 FT				
NAVIGATION DATA				APPRAISAL	
(38) NAVIGATION CONTROL - Not Applicable	CODE N				
(111)PIER PROTECTION -	CODE				
(39) NAVIGATION VERTICAL CLEARANCE	0				
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT				
(40) NAVIGATION HORIZONTAL CLEARANCE	0 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 4000	(115) YEAR FUTURE ADT 2025
				INSPECTIONS	
				(90) INSPECTION DATE	09/27/2012
				(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	

Structure No: 910252

County: WAKE

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I 440 WBL	11004400	17.00	6	1	10440		11	3	56000	2011	51.00	H	15.08	11.00	4.00	9	1	1	1
3	I 440 EBL	11004400	20.33	6	1	10440		11	4	56000	2011	61.00	H	18.17	21.67	3.33	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 11/01/2012

COUNTY : WAKE DIVISION : 5 DISTRICT : 1 STRUCTURE NUMBER : 910252 LENGTH : 339 FEET

ROUTE CARRIED : RIDGE ROAD FEATURE INTERSECTED : I440

LOCATED : 0.1 MI.S.US70 BRIDGE NAME : CITY : RALEIGH

FUNC. CLASS : 19 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 2000 1986 RAIL TYPE : LT 99 RT 99

BUILT : 1960 BY : SHC PROJ : 8.14905 FED.AID PROJ : F637(7) DESIGN LOAD : HS 20 + MOD

REHAB : BY : PROJ : ALIGNMENT : TAN. SKEW : 44 LANES : ON 2 UNDER 0

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

SUPERSTRUCTURE : REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE : EBTS: RC CAPS/SPREAD FTGS IBTS:RCP&B/ SPREAD FTGS.

SPANS : 1@60'6;2@82'6;2@56'6

BEAMS OR GIRDERS : 4 LNS.36 IN. I-BEAMS @8.0'CTS.

FLOOR : 7.75 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 33.417 FT

CLEAR ROADWAY : 28 FT BETWEEN RAILS : 31.25 FT SIDEWALK OR CURB : LT 1.625 FT RT 1.625 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-28 OPE.RTG. : HS-48 CONTR.MEMBER : I BM SpD POSTED : SV TTST DATE

SYSTEM : Primary Municipal roads over State System GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I 440 WBL	17	15.0830	51.4		11
3	I 440 EBL	20.3330	18.1660	61.3330	21.6670	

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 910252 COUNTY WAKE ROUTE RIDGE ROAD OVER I440
 STRUCTURE TYPE REINFORCED CONCRETE FLOOR ON I-BEAMS
 ROUTE ORIENTATION W - E SPANS 1@60'6;2@82'6;2@56'6

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	
1. WEARING SURFACE					b. ALIGNMENT	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	5	G		c. SCOUR	
	b. TIMBER				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		G	52. PAINT SYSTEM	CODE A	G
	b. TIMBER			53. UTILITIES		G
	c. ALUMINUM		G	54. RESPONSE TO LIVE LOAD		G
	d. STEEL			55. ESTIMATED REMAINING LIFE		12
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			G			
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			62. PRESENTLY POSTED		NO
	c. COMPRESSION SEAL			63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)		5
	d. STANDARD JOINTS	6	G	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			G	b. SUPERSTRUCTURE	ITEM 59	7
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60	5
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			G	d. CHANNEL & CHANNEL PROT.	ITEM 61	
13. END DIAP'S, CURTAIN WALLS, & CONN'S			P	71. SI&A FIELD APPRAISAL RATINGS		
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			G	b. APPR. RDWY. ALIGNMENT		7
16. DRAINAGE SYSTEM (ON STRUCTURE)			G	72. FIELD SCOUR EVALUATION		
17. MOVABLE SPAN MACHINERY						
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)				USE OF INSP. ACCESSIBILITY EQUIPMENT		
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			SNOOPER (CODE S, 4, OR N)	HRS	NO
	b. PILES, POST, SILLS, & BRACING			LADDER		NO
	c. BULKHEADS, WING'S, & TIE BACKS			BUCKET TRUCK		NO
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS	F		BOAT		NO
	b. ABUT. & BENT COL'S BREASTWALLS	F		OTHER		NO
	c. ABUT. & INT. BENT PILES					
	d. BACKWALLS, WING'S, RETAIN. WALLS	G				
	e. ABUT. & BENT FOOTINGS & SILLS					
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)			G			
40. FENDER SYSTEMS				80. INSPECTED BY:	Keith E. Maynard	
41. DRIFT				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 KEITH E MAYNARD			
Assisted By WCM			
Item No.	Grade		
2a	G	CONCRETE DECK - NO DEFICIENCIES NOTED NOTE: CONCRETE DECK HAS BEEN REHABILITATED SINCE LAST INSPECTION	
3a	G	CONCRETE RAILING - NO DEFICIENCIES NOTED	
3c	G	ALUMINUM RAILING - NO DEFICIENCIES NOTED	
4	G	CURBS, WHEELGUARD, PARAPETS - NO DEFICIENCIES NOTED	
6d	G	STANDARD JOINTS - NO DEFICIENCIES NOTED	
7	G	DECK DEBRIS - NO DEFICIENCIES NOTED	
10	G	LONGITUDINAL BEAMS - NO DEFICIENCIES NOTED	
12	G	INTERIOR DIAPHRAGMS, X-FRAMES, BRACING - NO DEFICIENCIES NOTED	
13	P	END DIAPHRAGMS, CURTAIN WALLS END DIAPHRAGMS HAVE MODERATE TO HEAVY CRACKING, UP TO 1/4"WIDE, ALONG BOTTOM FACES. DELAMINATED AND SPALLED EXPOSING REBAR. EXTERIOR FACES HAVE CONCRETE DETERIORATION AND SPALLS. BENT 1 SPAN 2 DIAPHRAGMS; ALL BAY'S SPALLED. BENT 2 SPAN 2 DIAPHRAGMS; BAY'S 2 & 3 CRACKED. BENT 3 SPAN 4 DIAPHRAGMS; BAY'S 1 & 3. BENT 4 SPAN 4 DIAPHRAGMS; BAY 2. BENT 4 SPAN 5 DIAPHRAGMS; BAY'S 1, 2, & 3.	
15	G	BEARING ASSEMBLIES - NO DEFICIENCIES NOTED	
16	G	DRAINAGE SYSTEM - NO DEFICIENCIES NOTED	

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 KEITH E MAYNARD			
Assisted By WCM			
Item No.	Grade		
52	G	PAINT SYSTEM - NO DEFICIENCIES NOTED	
36a	F	CONCRETE ABUTMENTS, BENTS, CAPS END BENT 1 CAP AT GIRDER 1, HAS HORIZONTAL HAIRLINE CRACK IN FACE, SIMILAR CRACKS BELOW GIRDERS 2 AND 3. BENT 1 SPAN 1 FACE; 1/32 IN DIAGONAL CRACK IN FACE OF END BENT 1 CAP RIGHT OF GIRDER 4, 8 LINEAR FOOT. CRACKING ALONG TOP EDGE IN BAY'S 1 & 2 6 LINEAR FOOT. 18 IN X 15 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN BOTTOM OF BENT 1 CAP BETWEEN COLUMNS 2 AND 3 . 12 IN X 6 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN BOTTOM OF BENT 1 CAP BETWEEN COLUMNS 1 AND 2. BENT 2 SPAN 2 FACE ;IMMINENT SPALL IN BOTTOM OF BENT 2 CAP BETWEEN COLUMNS 2 AND 3. 1/16 IN LONGITUDINAL CRACK IN BOTTOM OF BENT 3 CAP BETWEEN COLUMNS 1 AND 2. SPAN 2 FACE HAS 4 SQUARE FOOT OF DELAM UNDER BAY 1 AND 2 SQUARE FOOT UNDER BAY 2 UNDER GIRDER 3. BENT 3 SPAN 4 FACE; 12 IN X 9 IN X 1 IN DEEP SPALL WITH EXPOSED REBAR IN SPAN 4 FACE OF BENT 3 CAP BETWEEN GIRDERS 3 AND 4. CRACKING ALONG TOP EDGE 6 LINEAR FOOT. DELAM AREA UNDER GIRDER 2, 2 SQUARE FOOT WITH CRACKING ALONG TOP EDGE INTO BAY 2, 4 LINEAR FOOT. RIGHT END OF CAP ON OUTSIDE EDGE CORNER IS CRACKING AND DELAMINATED. BENT 4 SPAN 4 FACE; 1/8 IN LONGITUDINAL CRACK IN SPAN 5 FACE OF BENT 4 CAP BETWEEN GIRDERS 1 AND 2. BENT 4 SPAN 5 FACE; END BENT 2 ; 1/8 IN HORIZONTAL CRACK IN FACE OF END BENT 2 CAP BETWEEN GIRDERS 3 AND 4 CRACKS HAVE RUST STAIN SEEPAGE.	
36b	F	CONCRETE COLUMNS, BREASTWALLS BENT 1 COLUMNS, 1, 2, & 3 CRACKING ALONG TOP PORTION EXTENDING DOWN FROM CONSTRUCTION JOINT 3 TO 4 FEET WITH DEPOSITS OF EFFLORESCENCE SEEPAGE.	
36d	G	CONCRETE RETAINING WALLS - NO DEFICIENCIES NOTED	
39	G	SLOPE PROTECTION SLOPE PROTECTION AT EB 2 IS CRACKED AND SETTLED AROUND BENT 4 COLUMNS.	
50	G	APPROACH ROADWAY - NO DEFICIENCIES NOTED	

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader KEITH E MAYNARD			
Assisted By WCM			
Item No.	Grade		
53	G	UTILITIES - NO DEFICIENCIES NOTED	
54	G	RESPONSE TO LIVE LOAD - NO DEFICIENCIES NOTED	
71b	7	ROADWAY ALIGNMENT - NO DEFICIENCIES NOTED	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 910252

County WAKE

Date: 09/27/2012

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3306	Maintain Concrete Superstructure Components	SF	40	CRACKS, SPALLING WITH EXPOSED STEEL ON CONCRETE DIAPHRAGMS	
3348	Maintain Concrete Substructure Components	LF	50	CRACKING AND SPALLING WITH EXPOSED STEEL ON END BENTS AND INTERIOR BENT CAPS	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



AREA OF DELAMINATION ON BOTTOM OF CAP ON INTERIOR BENT 3



SPALLING ON DIAPHRAGM OVER INTERIOR BENT 4



SPALLING WITH EXPOSED STEEL ON OUTSIDE DIAPHRAGM STUB OVER INTERIOR BENT 3



DELAMINATED AREA ON SIDE OF CAP AT INTERIOR BENT 4



DELAMINATION / CRACKING ON TOP AND SIDE OF END BENT 2 CAP



EDGE SPALLING OVER END BENT 2



DIAGONAL 3/16" CRACK RIGHT WIDE OF END BENT 1 UNDER BEAM 4 IN FACE OF CAP



CRACKS IN BOTTOM OF DECK OVERHANG IN SPAN 1



CRACKS / DELAMINATION SPAN 1 SIDE OF INTERIOR BENT 1 CAP



INTERIOR BENT 1 BOTTOM OF CAP HAS SPALLING WITH EXPOSED STEEL

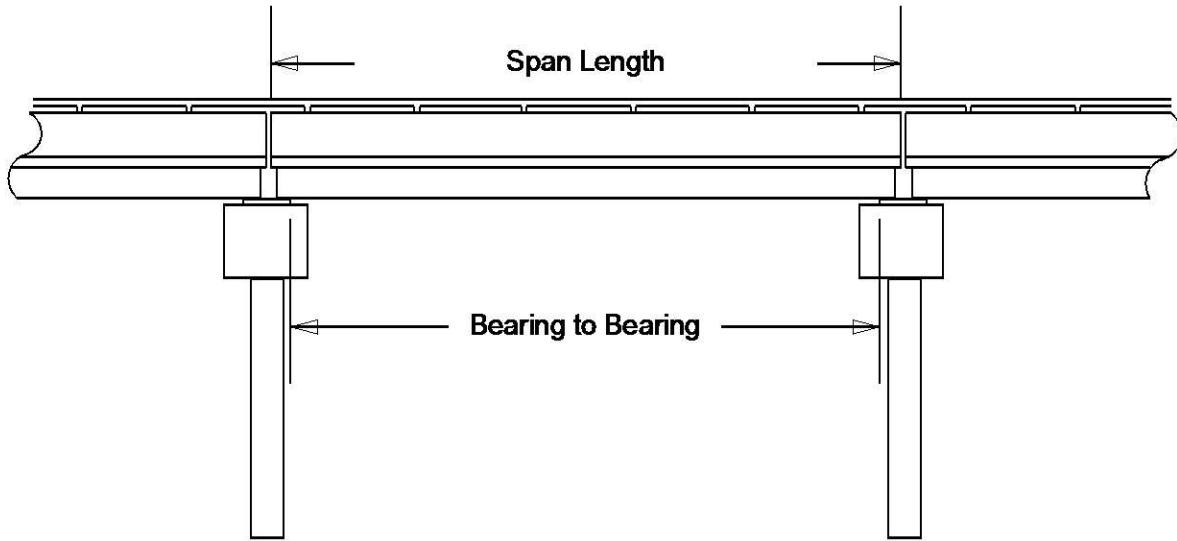


VERTICAL 1/8" WIDE CRACK IN INTERIOR BENT 1, COLUMN 2 WITH DEPOSITS OF EFFLORESCENCE

Structure Data Worksheet

Spans

County: WAKE Structure No: 910252 Date: 09/27/2012 Inspected By: KEM



Span No	Span Length	Bearing to Bearing	Comments
1	60.5	59.5	
2	82.5	81.5	
3	82.5	81.5	
4	56.5	55.5	
5	56.5	55.5	

Bridge Inspection Field Sketch



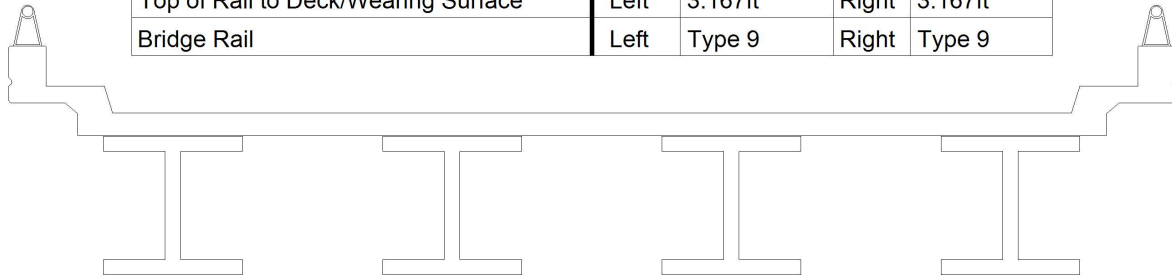
Roadway	24ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide	3ft Paved	
Right Shoulder	3ft Wide		3ft Unpaved
Left Guardrail	3ft from road		
Right Guardrail	3ft from road		

CHECKED BY: KEITH E MAYNARD 9/27/12

Title APPROACH ROADWAY		Description LOOKING EAST	
Bridge No: 910252	Drawn By: MJM	Date: 09/29/2008	File Name: S0242001208

Bridge Inspection Field Sketch

Deck Width/Out to Out	33.417ft	Between Rails	31.25ft
Clear Roadway	28.0ft	Wearing Surface	
Median Width		Median Height	
Curb Height		Left	0.917ft
Sidewalk Width		Right	0.917ft
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	1.083ft
Bridge Rail		Right	1.083ft
		Left	3.167ft
		Right	3.167ft
		Left	Type 9
		Right	Type 9



Measurements for Span #	1		
Deck Thickness	0.646	Left Overhang	4.708
Top of Rail to Bottom of Beam	8.083	Right Overhang	4.708

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	8.0ft	36" I - BEAM
2	Steel I Beam	8.0ft	36" I - BEAM
3	Steel I Beam	8.0ft	36" I - BEAM
4	Steel I Beam	ft	36" I - BEAM

CHECKED BY: KEITH E MAYNARD 9/27/11

Title

TYPICAL SECTION

Description

4 LINES OF I-BEAMS

Bridge No: 910252

Drawn By: KMM

Date: 09/29/2008

File Name: S0242001209

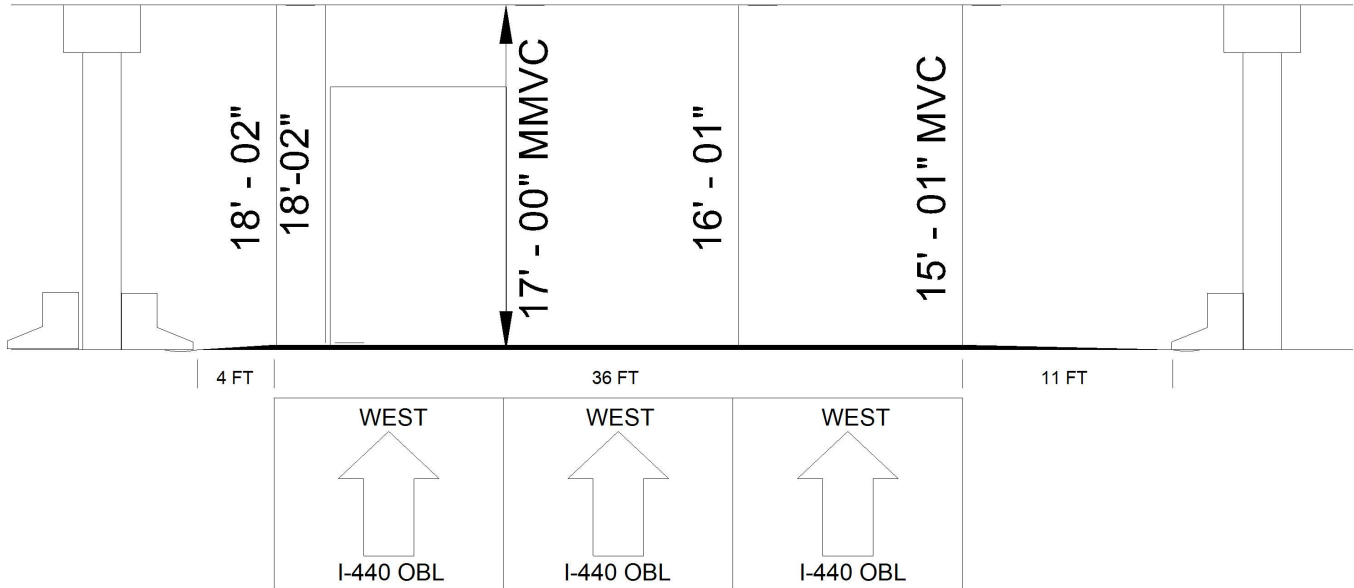
Bridge Inspection Field Sketch

EAST

SR4106 - RIDGE ROAD

WEST

SPAN 2 BEAM 1



Roadway 1		Direction of Traffic	East
Distance to Left Rail	4FT	Distance to Right Rail	11FT
Distance to Left Toe of Slope		Distance to Left Bent	7.583 FT
Distance to Right Toe of Slope		Distance to Right Bent	12.417FT
MMVC	17'-0" at Beam 1, 10 FT from LEFT EDGE OF LEFT THROUGH LANE		
MVC	15'-1" at Beam 1, 0 FT from RIGHT EDGE OF RIGHT THROUGH LANE		

CHECKED BY: KEITH E MAYNARD 9/27/12

Title

VERTICAL CLEARANCE SPAN 2

Description

I-440 WESTBOUND, OUTER BELT LLN.

Bridge No: 910252

Drawn By: KMM; TFM

Date: 9/29/2008

File Name: S0242001210

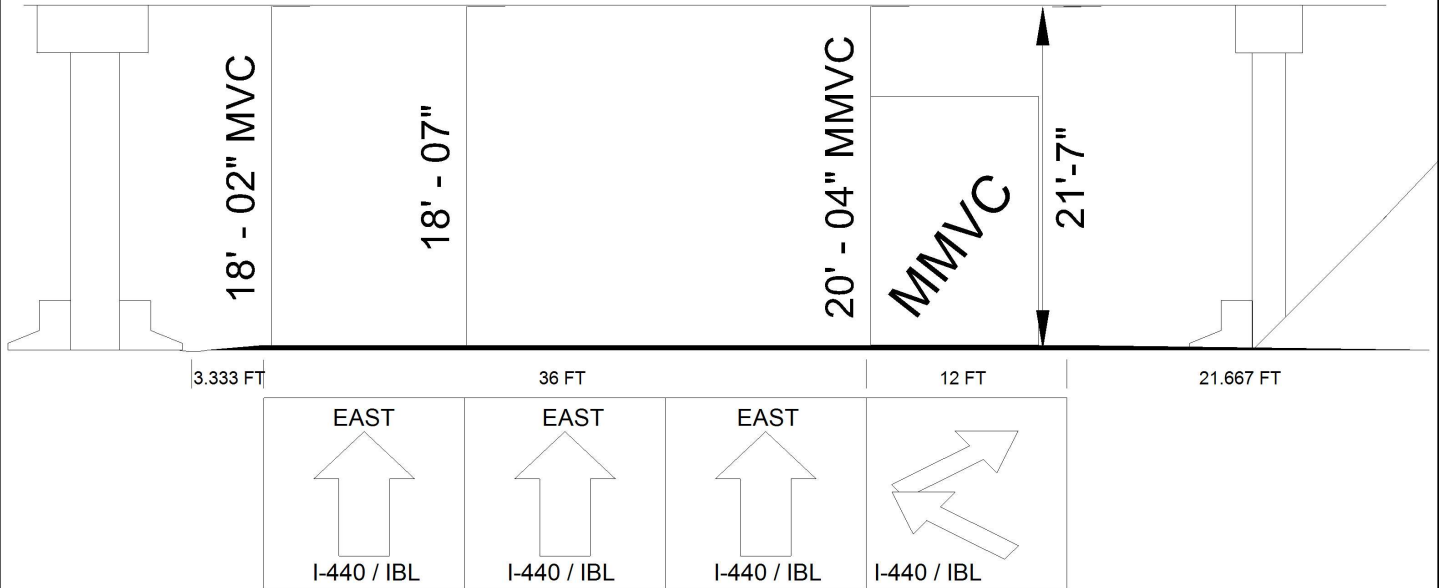
Bridge Inspection Field Sketch

WEST

SR4106 RIDGE ROAD

EAST

SPAN 3 BEAM 1



Roadway 1		Direction of Traffic	West
Distance to Left Rail	3.333FT	Distance to Right Rail	21.667FT
Distance to Left Toe of Slope		Distance to Left Bent	5.083FT
Distance to Right Toe of Slope	23.083FT	Distance to Right Bent	23.083FT
MMVC	20'-4" at Beam 1, 10 FT from RIGHT EDGE OF RIGHT THRU LANE		
MVC	18'-2" at Beam 1, 0 FT from LEFT EDGE OF LEFT THRU LANE		

CHECKED BY: KEITH E MAYNARD 9/27/12

Title

VERTICAL CLEARANCE SPAN 3

Description

I-440 EAST INNER BELT LN.

Bridge No: 910252

Drawn By: KMM; TFM

Date: 9/29/2008

File Name: S0242001211



SPAN 3 BOTTOM OF DECK GENERAL VIEW



INTERIOR BENT 2 GENERAL VIEW



INTERIOR BENT 3 GENERAL VIEW



SPAN 4 BOTTOM OF DECK GENERAL VIEW



INTERIOR BENT 4 GENERAL VIEW



CONCRETE SLOPE PROTECTION AT END BENT 2



SPAN 5 BOTTOM OF DECK GENERAL VIEW



UTILITY ATTACHED TO BOTTOM OF DECK



UTILITY ATTACHMENT



END BENT 2 GENERAL VIEW



END BENT 2 BEARING ASSEMBLY



LOOKING WEST



EAST APPROACH ASPHALT WEARING SURFACE



BRIDGE RAILING (TYPICAL)



SPAN 5 TOP OF DECK GENERAL VIEW



INTERIOR BENT 4 JOINT GENERAL VIEW



SPAN 4 TOP OF DECK GENERAL VIEW



INTERIOR BENT 3 JOINT GENERAL VIEW



SPAN 3 TOP OF DECK GENERAL VIEW



INTERIOR BENT 2 JOINT GENERAL VIEW



SPAN 2 TOP OF DECK GENERAL VIEW



LOOKING SOUTH



LOOKING NORTH



INTERIOR BENT 1 JOINT GENERAL VIEW



SPAN 1 TOP OF DECK GENERAL VIEW



GUARDRAIL ATTACHMENT TO BRIDGE



END BENT 1 JOINT



END BENT 1 APPROACH SLAB



END BENT 1 APPROACH



LOOKING EAST



END BENT 1 GENERAL VIEW



BEARING ASSEMBLY AT END BENT 1



SPAN 1 BOTTOM OF DECK



INTERIOR BENT 1 GENERAL VIEW



SPAN 2 BOTTOM OF DECK



LOOKING NORTH



LOOKING SOUTH