



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MANAGEMENT UNIT

ATTENTION

VERTICAL CLR. CHECKED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY GASTON BRIDGE NUMBER 350034 INSPECTION CYCLE 2 YRS 26.9
 ROUTE NC273 ACROSS I85 M.P. 0

LOCATION 0.6 MI. N. JCT. NC7

SUPERSTRUCTURE REINFORCED CONCRETE DECK ON I-BEAMS, APPR.SLABS, SIP FORMS

SUBSTRUCTURE END BTS:RC CAP & STEEL PILES, INT.BTS:RC P&B W/PILE FOOTINGS

SPANS 1@34'6" NONCOMP., 1@74'8", 1@74'5", 1@45'10" COMPOSITE

LONGITUDE 81° 1' 36.49"

LATITUDE 35° 15' 25.28"

INSPECTION DATE 08/05/2014

PRESENT CONDITION GOOD

PRESENT POSTING N NOT POSTED

PROPOSED POSTING _____

OTHER SIGNS PRESENT NONE

Fracture Critical No
 Temporary Shoring No
 Scour Critical No
 Scour POA No



SIGN NOTICE ISSUED FOR	NUMBERED 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	_____

SOUTH APPROACH

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

Run Date: 09/10/2014

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **350034**
 (8) STRUCTURE NUMBER(FEDERAL) 00000000710034
 (5) INVENTORY ROUTE (ON/UNDER) - ON 31002730
 (2) STATE HIGHWAY DEPARTMENT DISTRICT 1
 (3) COUNTY CODE 71 (4) PLACE CODE 4840
 (6) FEATURE INTERSECTED - I85
 (7) FACILITY CARRIED NC273
 (9) LOCATION 0.6 MI. N. JCT. NC7
 (11) MILEPOINT 0
 (16) LAT 35° 15' 25.28" (17) LONG 81° 1' 36.49"
 (98) BORDER BRIDGE STATE CODE PCT SHARE
 (99) BORDER BRIDGE STRUCTURE NO

SUFFICIENCY RATING = 97
 STATUS = Not Deficient

CLASSIFICATION **CODE**

(112) NBIS BRIDGE SYSTEM - YES
 (104) HIGHWAY SYSTEM Is on the NHS 1
 (26) FUNCTIONAL CLASS - Other Principal Arterial 14
 (100) STRAHNET HIGHWAY - Not a STRAHNET Route 0
 (101) PARALLEL STRUCTURE - No Parallel Structure N
 (102) DIRECTION OF TRAFFIC - 2-way Traffic 2
 (103) TEMPORARY STRUCTURE -
 (110) DESIGNATED NATIONAL NETWORK - Not on the National Network 0
 (20) TOLL On Free Road 3
 (31) MAINTAIN - State Highway Agency 01
 (22) OWNER - State Highway Agency 01
 (37) HISTORICAL SIGNIFICANCE - Not Eligible 5

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
 TYPE - Stringer Mutlibeam or Girder CODE 302
 (44) STRUCTURE TYPE APPR :
 TYPE - CODE 0
 (45) NUMBER OF SPANS IN MAIN UNIT 4
 (46) NUMBER OF APPROACH SPANS 0
 (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

CONDITION **CODE**

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

LOAD RATING AND POSTING **CODE**

(31) DESIGN LOAD HS 20 + MOD 6
 (63) OPERATING RATING METHOD - Load Factor 1
 (64) OPERATING RATING - HS-47 85
 (65) INVENTORY RATING METHOD - Load Factor 1
 (66) INVENTORY RATING - HS-28 51
 (70) BRIDGE POSTING - No Posting Required 5
 (41) STRUCTURE OPEN, POSTED ,OR CLOSED A
 DESCRIPTION - Open, No Restriction

AGE AND SERVICE

(27) YEAR BUILT 1989
 (106) YEAR RECONSTRUCTED
 (42) TYPE OF SERVICE : ON - Overpass - Interchange
 UNDER - Highway CODE 61
 (28) LANES: ON STRUCTURE 4 UNDER STRUCTURE 8
 (29) AVERAGE DAILY TRAFFIC 24500
 (30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 12%
 (19) BYPASS OR DETOUR LENGTH 0 MI

APPRAISAL **CODE**

(67) STRUCTURAL EVALUATION 7
 (68) DECK GEOMETRY 9
 (69) UNDERCLEARANCES, VERTI & HORIZ 5
 (71) WATERWAY ADEQUACY N
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 1000
 (113) SCOUR CRITICAL BRIDGES N

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 73 FT
 (49) STRUCTURE LENGTH 229 FT
 (50) CURB OR SIDEWALK: LEFT 5 FT RIGHT 5 FT
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 92 FT
 (52) DECK WIDTH OUT TO OUT 104.42 FT
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 90 FT
 (33) BRIDGE MEDIAN - No Median CODE 2
 (34) SKEW 0° (35) STRUCTURE FLARED 0
 (10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 92 FT
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
 (54) MIN VERT UNDERCLEAR REF Highway 16.333 FT
 (55) MIN LAT UNDERCLEAR RT REF Highway 12 FT
 (56) MIN LAT UNDERCLEAR LT REF - 8.833 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 49000 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 08/05/2014
 (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

NAVIGATION DATA

(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

Structure No: 350034

County: GASTON

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							
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I 85 N	11000850	16.42	26.90	1	10085		11	4	61000	2012	68.83	H	16.33	12	8.83	9	1	1	1
3	I 85 S	11000850	17.83	26.90	1	10085		11	4	61000	2012	69.08	H	17.75	12.75	8.33	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: 09/10/2014

COUNTY : GASTON DIVISION : 12 DISTRICT : 1 STRUCTURE NUMBER : 350034 LENGTH : 229 FEET

ROUTE CARRIED : NC273 FEATURE INTERSECTED : I85

LOCATED : 0.6 MI. N. JCT. NC7 BRIDGE NAME : CITY : BELMONT

FUNC. CLASS : 14 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 24500 2012 RAIL TYPE : LT 379 RT 379

BUILT : 1989 BY : DOH PROJ : 8.1631202 FED.AID PROJ : I-IR-85-1(64) DESIGN LOAD : HS 20 + MOD

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 4 UNDER 8

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

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS (S.I.P. METAL FORMS)

SUBSTRUCTURE : E.BTS:RC CAPS/H-PILES; INT.BTS:RC P&B/PILE FOOTINGS

SPANS : 1@34'-6", 1@74'-8", 1@74'-5", 1@45'-10"

BEAMS OR GIRDERS : 14 LINES 33' I-BEAMS @ 7'-5" CENTERS

FLOOR : 8.5" RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 104.42 FT

CLEAR ROADWAY : 92 FT BETWEEN RAILS : 102 FT SIDEWALK OR CURB : LT 5 FT RT 5 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-28 OPE.RTG. : HS-47 CONTR.MEMBER : int bmC9-C14 POSTED : SV TTST DATE

SYSTEM : Primary N.C. Route GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I 85 N	16.4170	16.3330	68.8330	8.8330	12
3	I 85 S	17.8330	17.75	69.0830	8.3330	12.75

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 350034 COUNTY GASTON ROUTE NC273 OVER I85
 STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS, APPR.SLABS, SIP FORMS
 ROUTE ORIENTATION S - N SPANS 1@34'6" NONCOMP., 1@74'8", 1@74'5", 1@45'10" COMPOSITE

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

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		4	G	50. APPROACH ROADWAY CONDITION			F
	b. TIMBER				51. APPROACH SLABS			G
	c. STEEL PLANK				52. PAINT SYSTEM			CODE
	d. OPEN GRID				53. UTILITIES			G
3. RAILING	a. CONCRETE				54. RESPONSE TO LIVE LOAD			G
	b. TIMBER				55. ESTIMATED REMAINING LIFE			44
	c. ALUMINUM			G				
	d. STEEL							
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS				G				
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				G	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		5	G	63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR)			5
	d. STANDARD JOINTS				64. TOTAL SNOOPER INSP. TIME (HRS)			
	e. OPEN JOINTS				65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)			
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	7
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S				G	d. CHANNEL & CHANNEL PROT.		ITEM 61	
13. END DIAP'S, CURTAIN WALLS, & CONN'S				G				
14. FLOOR BEAMS AND CONNECTIONS					71. SI&A FIELD APPRAISAL RATINGS			
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)				G	a. WATERWAY ADAQUACY			
16. DRAINAGE SYSTEM (ON STRUCTURE)				G	b. APPR. RDWY. ALIGNMENT		8	
17. MOVABLE SPAN MACHINERY					72. FIELD SCOUR EVALUATION			
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		G	BOAT			NO	
	b. ABUT. & BENT COL'S BREASTWALLS		G	OTHER			NO	
	c. ABUT. & INT. BENT PILES						NO	
	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:		<i>del PL</i>	
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 Inspeccion & Analysis</u>	
Team Leader DEREK RICKUS			
Assisted By EAP			
Item No.	Grade		
2a	G	THERE ARE SEVERAL H/L CRACKS EMANATING FROM JOINTS 1' TO 4' INTO THE SPANS IN ALL SPANS. DECK HAS FEW TRANSVERSE CRACKS IN THE ROADWAY SURFACE.	
10A	NO	NO CURVED GIRDERS	
52		WEATHERED STEEL	
36e		NOT VISIBLE	
38		NOT VISIBLE	
50	F	CHIPPING OF ASPHALT ALONG THE FILLFACES AT BOTH APPROACHES.	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 350034

County GASTON

Date: 08/05/2014

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
2816	Asphalt Surface Repair or Replacement	SY	21	CHIPPING OF ASPHALT ALONG THE FILLFACES AT BOTH APPROACHES.	
3326	Maintain Concrete Deck	SF	250	THERE ARE SEVERAL H/L CRACKS EMANATING FROM JOINTS 1' TO 4' INTO THE SPANS IN ALL SPANS. DECK HAS FEW TRANSVERSE CRACKS IN THE ROADWAY SURFACE.	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined



CHIPPING OF ASPHALT ALONG THE FILLFACES AT BOTH APPROACHES.

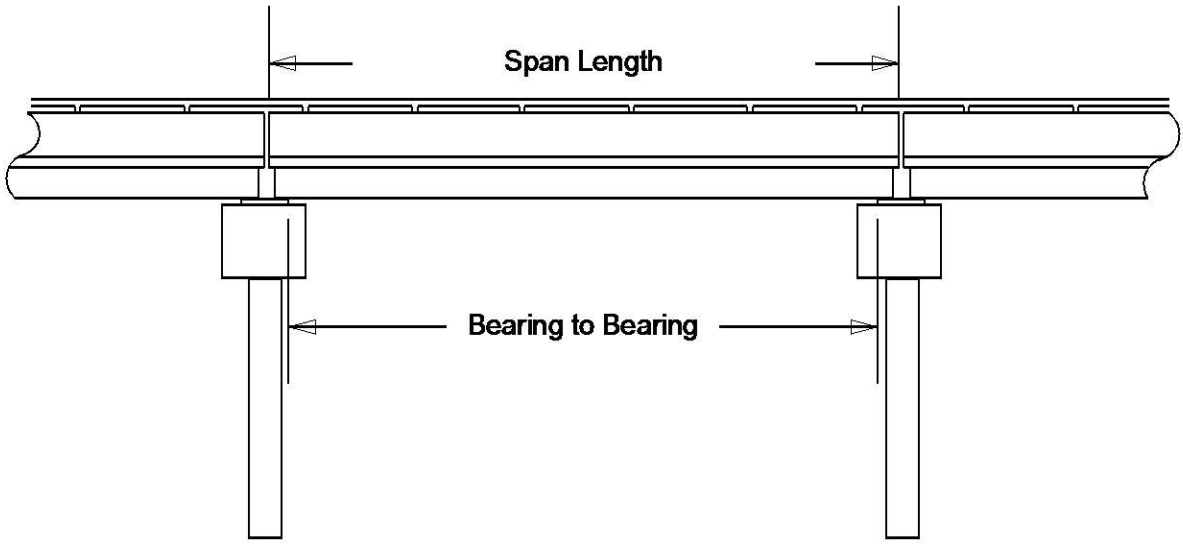


THERE ARE SEVERAL H/L CRACKS EMANATING FROM JOINTS 1' TO 4' INTO THE SPANS IN ALL SPANS. DECK HAS FEW TRANSVERSE CRACKS IN THE ROADWAY SURFACE.

Structure Data Worksheet

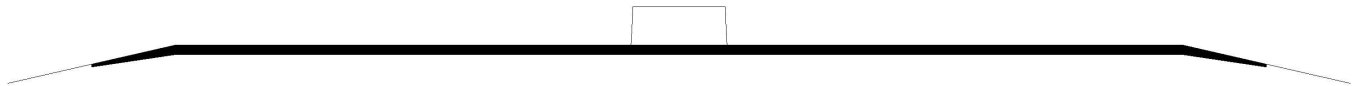
Spans

County: GASTON Structure No: 350034 Date: 08/05/2014 Inspected By: DCR



Span No	Span Length	Bearing to Bearing	Comments
1	34.500'	32.333'	
2	74.667'	72.792'	
3	74.417'	72.458'	
4	45.833'	44.333'	NBIS = 216'

Bridge Inspection Field Sketch



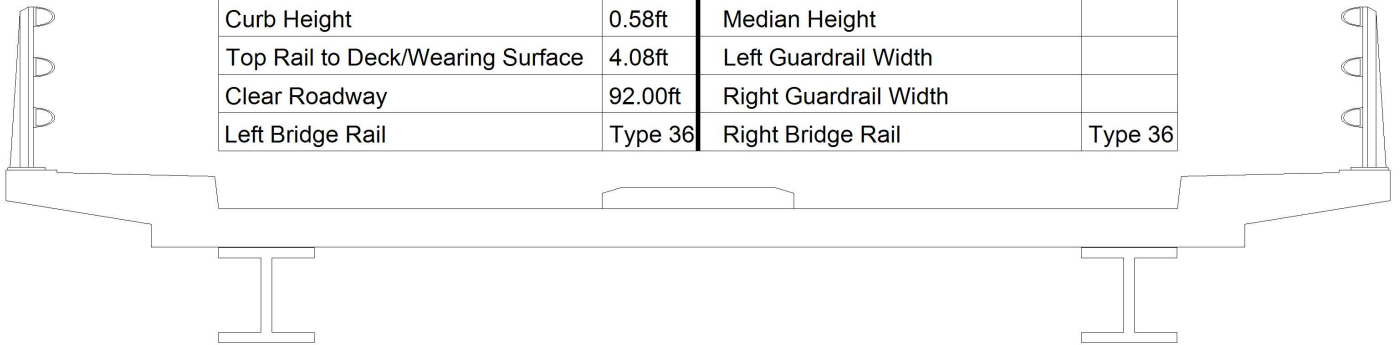
Left Lanes			
Roadway	46.00ft Wide	4 Paved Lanes	South Bound
Right Shoulder	2ft Wide	2.00ft Paved	
Left Guardrail			
Right Guardrail			
Median	4.00ft Wide		
Right Lanes			
Roadway	36.00ft Wide	3 Paved Lanes	North Bound
Right Shoulder	2ft Wide	2.00ft Paved	
Left Guardrail			
Right Guardrail			

VERIFIED BY ERIC PATTERSON ON 8-4-2014

Title APPROACH ROADWAY		Description APPROACH ROADWAY	
Bridge No: 350034	Drawn By: DJA	Date: 8/20/2008	File Name: S0286000104

Bridge Inspection Field Sketch

Deck Width/Out to Out	104.42ft	Wearing Surface	
Between Rails	102.00ft	Median Width	4.00ft
Curb Height	0.58ft	Median Height	
Top Rail to Deck/Wearing Surface	4.08ft	Left Guardrail Width	
Clear Roadway	92.00ft	Right Guardrail Width	
Left Bridge Rail	Type 36	Right Bridge Rail	Type 36

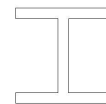


Measurements for Span #	1	SPANS 2 TO 4 SIMILAR	
Deck Thickness	0.71	Left Overhang	2.75
Top of Rail to Bottom of Beam		Right Overhang	2.75

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	7.42ft	
2	Steel I Beam	7.42ft	
3	Steel I Beam	7.42ft	
4	Steel I Beam	7.42ft	
5	Steel I Beam	7.42ft	
6	Steel I Beam	4.17ft	
7	Steel I Beam	4.17ft	
8	Steel I Beam	8.25ft	
9	Steel I Beam	8.25ft	
10	Steel I Beam	8.25ft	
11	Steel I Beam	8.25ft	
12	Steel I Beam	8.25ft	
13	Steel I Beam	8.25ft	
14	Steel I Beam		

NOTE: 4 LINES OF PVC PIPE IN BAY 13

10" X 27"



3/4" FLG. , 1/2" WEB

VERIFIED BY ERIC PATTERSON ON 8-4-2014

Title

TYPICAL SECTION

Description

TYPICAL SECTION

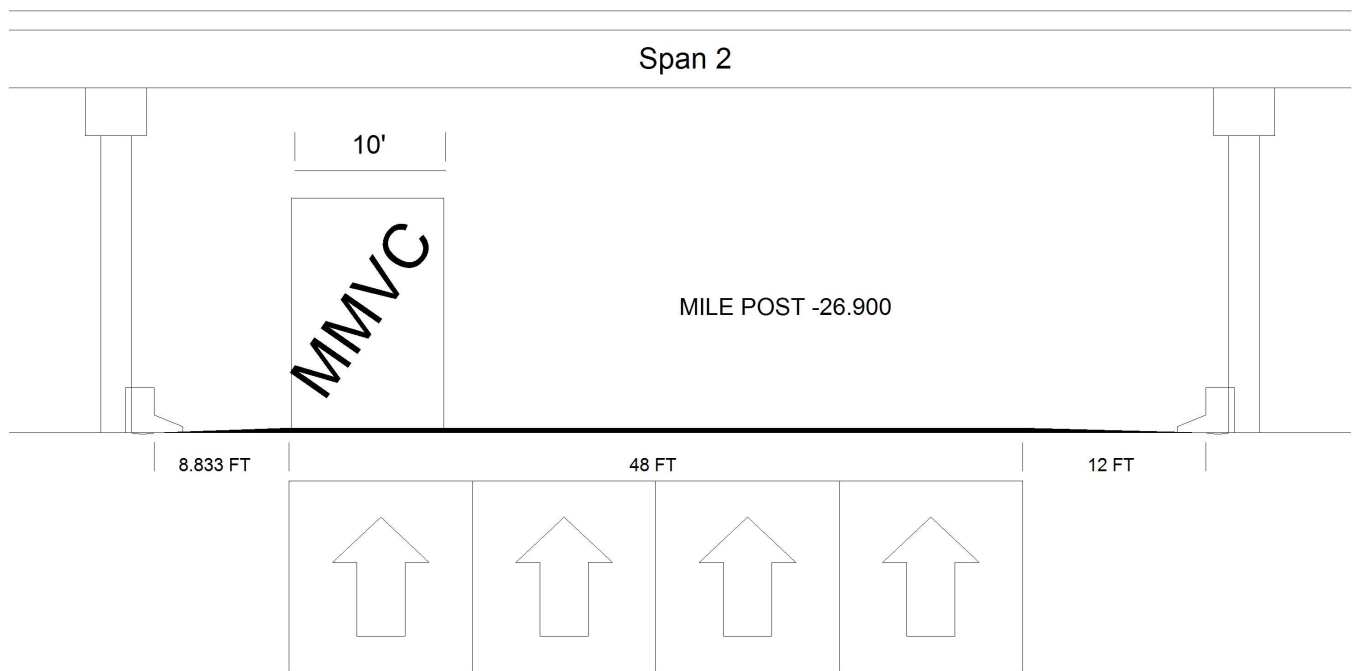
Bridge No: 350034

Drawn By: DJA

Date: 8/20/2008

File Name: S0286000105

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	8.833FT	Distance to Right Rail	12FT
Distance to Left Toe of Slope		Distance to Left Bent	10.333FT
Distance to Right Toe of Slope		Distance to Right Bent	13.5FT
MMVC	16.417 Ft at Beam 1, 0 FT from LEFT EDGE OF ROADWAY		
MVC	16.333 Ft at Beam 1, 0 FT from RIGHT EDGE OF ROADWAY		

VERIFIED BY ERIC PATTERSON ON 8-4-2014

Title

SPAN #2 OVER I-85 NORTHBOUND

Description

SPAN #2 UNDERCLEARANCE

Bridge No: 350034

Drawn By: DJA

Date: 8/20/2008

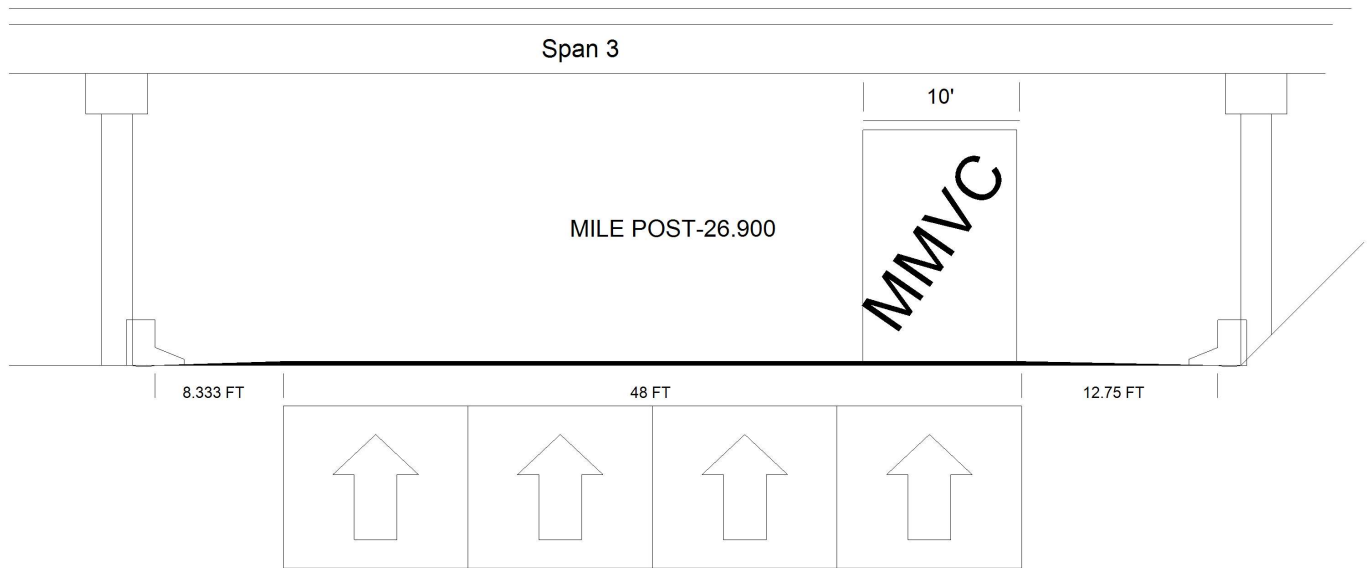
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Bridge Inspection Field Sketch

DELETE SKETCH

Title	Description		
EASTBOUND UNDERCLEARANCE	EASTBOUND UNDERCLEARANCE		
Bridge No: 350034	Drawn By: SJP	Date: 09/08/2006	File Name: S0286000162

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	South
Distance to Left Rail	8.333FT	Distance to Right Rail	12.75FT
Distance to Left Toe of Slope		Distance to Left Bent	9.833FT
Distance to Right Toe of Slope		Distance to Right Bent	14.25FT
MMVC	17.833 Ft at Beam 1, 0 FT from RIGHT EDGE OF ROADWAY		
MVC	17.75 Ft at Beam 1, 11.667 FT from LEFT EDGE OF ROADWAY		

VERIFIED BY ERIC PATTERSON ON 8-4-2014

Title

SPAN #3 OVER I-85 SOUTHBOUND

Description

SPAN #3 UNDERCLEARANCE

Bridge No: 350034

Drawn By: DJA

Date: 8/20/2008

File Name: S0286000107

Bridge Inspection Field Sketch

DELETE SKETCH

Title

WESTBOUND UNDERCLEARANCE

Description

WESTBOUND UNDERCLEARANCE

Bridge No: 350034

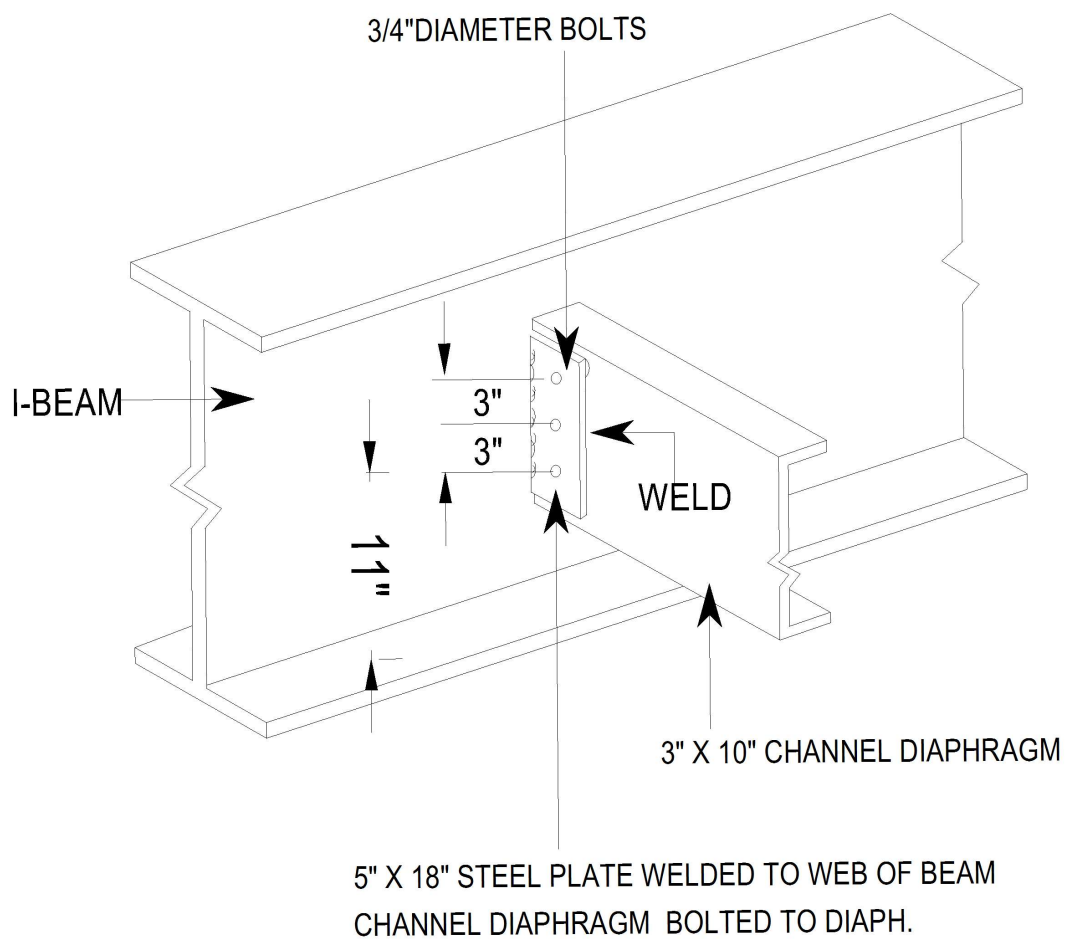
Drawn By: SJP

Date: 09/08/2006

File Name: S0286000163

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS



VERIFIED BY ERIC PATTERSON ON 8-4-2014

Title
DIAPH.

Description
DETAILS

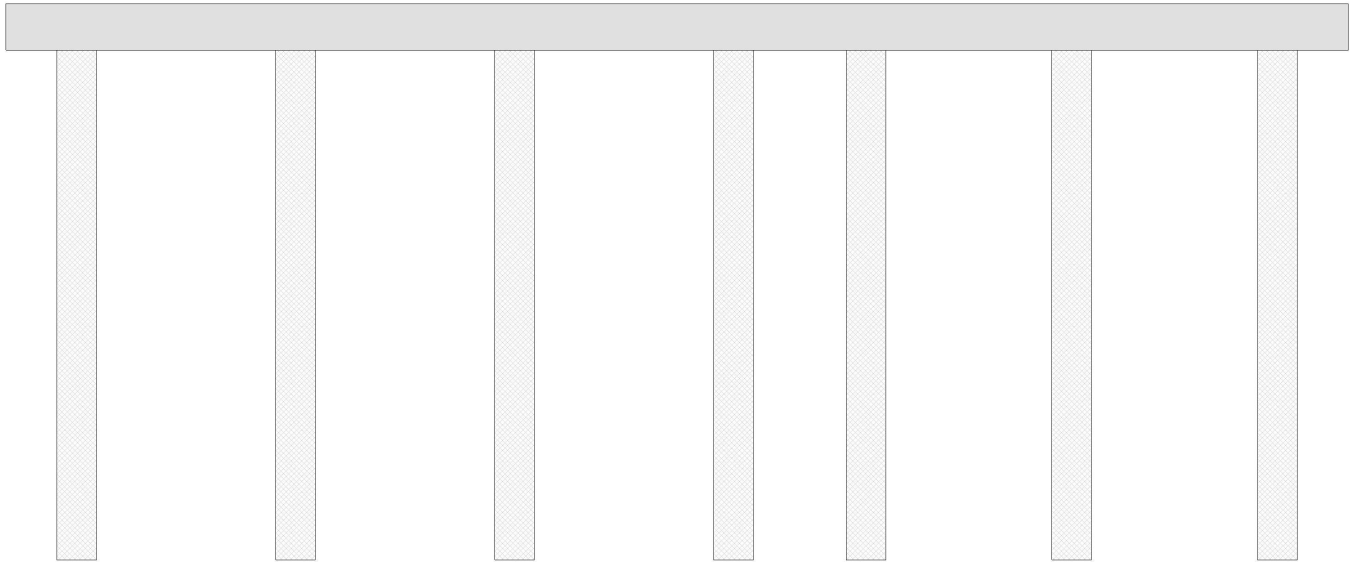
Bridge No: 350034

Drawn By: DEREK RICKUS

Date: 8/23/2012

File Name: S0142001870

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
101.167 ft.	3.500 ft.	3.500 ft.	5.333 ft.	5.333 ft.	1.833 ft.	1.833 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	16.5 ft.	3.0 ft.			Vertical	No	No	No	No
2	Concrete	16.5 ft.	3.0 ft.			Vertical	No	No	No	No
3	Concrete	16.5 ft.	3.0 ft.			Vertical	No	No	No	No
4	Concrete	10.0 ft.	3.0 ft.			Vertical	No	No	No	No
5	Concrete	15.5 ft.	3.0 ft.			Vertical	No	No	No	No
6	Concrete	15.5 ft.	3.0 ft.			Vertical	No	No	No	No
7	Concrete		3.0 ft.			Vertical	No	No	No	No
VERIFIED BY ERIC PATTERSON ON 8-4-2014										
Bent/Abutment #: 1			Similar Bents: BENTS 2 AND 3							

Title				Description			
SUBSTRUCTURE				DETAILS			
Bridge No: 350034	Drawn By: DEREK RICKUS			Date: 8/23/2012	File Name: S0142001871		



SOUTH APPROACH



LOOKING SOUTH



LOOKING NORTH



NORTH APPROACH



ABUT. 2



UTILITY UNDER BAY 13



BENT 2



LOOKING SOUTH



BENT 3



BENT 1



LOOKING NORTH



ABUT. 2