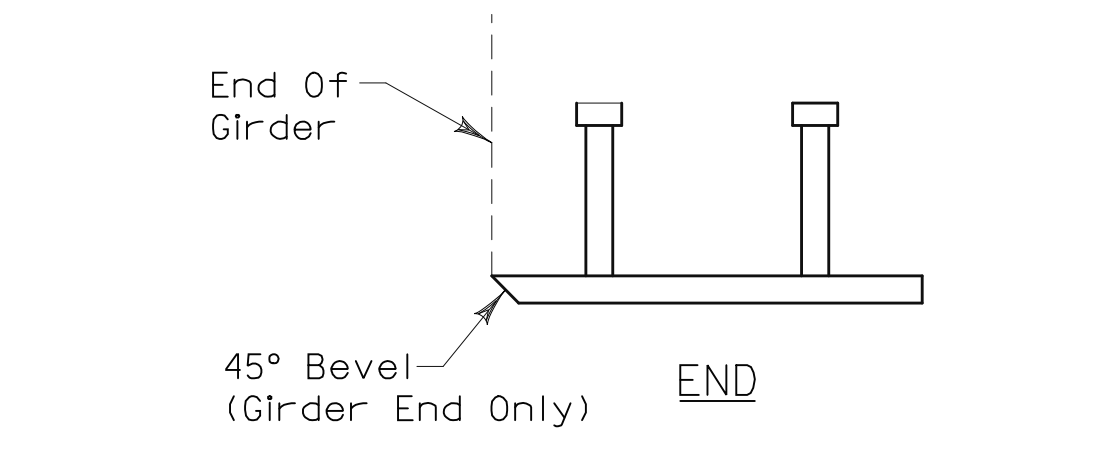
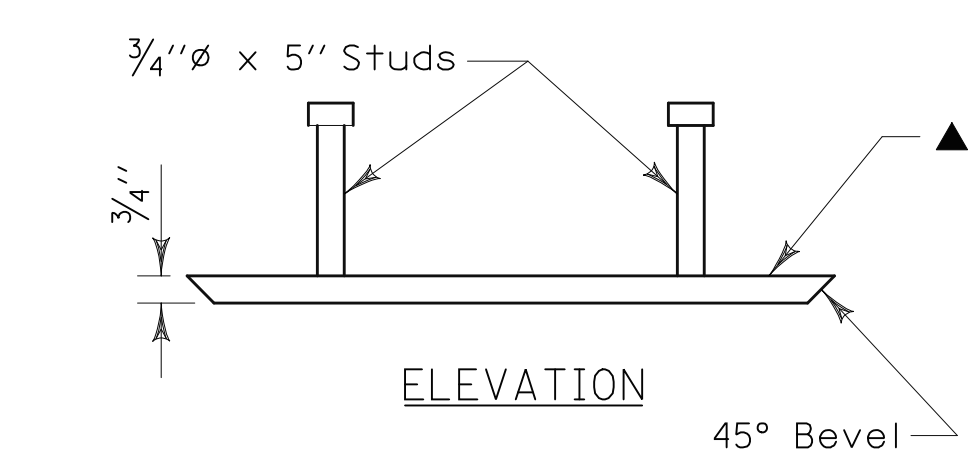
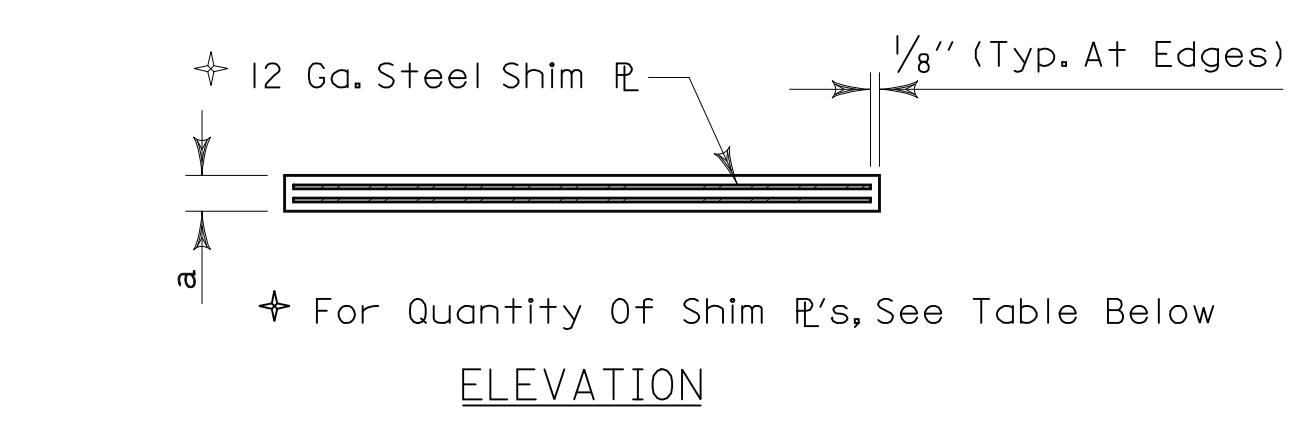


BEARING MARK "VB" DETAIL



ELASTOMERIC BEARING PAD DETAIL
(FOR BEARING MARK "B" & "VB")

SOLE PLATE DETAIL
(FOR ALL GIRDER TYPES)

Girder Type (AASHTO)	Maximum Span Length *	Maximum Load DL + LL	Elastomeric Bearing		Elastomeric Bearing Pad Data								Sole Plate & Bearing Plate Data				
					Bearing Pad Dimensions			Individual Layers **				Required 12 Gauge Steel Shim Plates			Sole Pl & Bevel Pl Length "c"	Connection Stud Spacings	
					Thickness "a"	Length "b"	Width - - -	Exterior		Interior		Number	Length	Width		"d"	"e"
								Number	Thickness	Number	Thickness						
Type I	45 ft.	105 kips	VB1	4	0.75"	14.5"	9.0"	2	0.375"	- - -	- - -	1	14.25"	8.75"	16.0"	4.0"	8.0"
Type II	60 ft.	125 kips	VB2	4	0.75"	16.5"	9.0"	2	0.375"	- - -	- - -	1	16.25"	8.75"	18.0"	5.0"	8.0"
Type III	85 ft.	135 kips	VB3	4	1.00"	20.5"	9.0"	2	0.250"	1	0.500"	2	20.25"	8.75"	22.0"	5.0"	12.0"
BT-54	100 ft.	220 kips	VB4	4	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	26.0"	5.0"	16.0"
BT-63	125 ft.	220 kips	VB4	4	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	26.0"	5.0"	16.0"
BT-72	140 ft.	220 kips	VB4	4	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	26.0"	5.0"	16.0"

NOTE: A Bearing Layout (Erection Plan) Shall Be Provided By The Manufacturer Of The Bearings Whenever Type 4 Mark "VB" Elastomeric Bearings Are Specified In The Bridge Drawings. The Layout Shall Be Included In The Bearing Pad Fabrication Drawings Submitted To The Bridge Engineer For Approval And Shall Include All Bearings (Mark "VB" And Mark "B" If Applicable) For Each Structure. The Layout Shall Locate Each Bearing With Respect To Mark Number And Shall Indicate Correct Placement Of Bearing With Respect To Beveling.

NOTE: Sole Plates Shall Be Hot-Dipped Galvanized In Accordance With AASHTO M-111. Beveled Edges Of The Sole Plate To Receive Field Welding Shall Be Ground To Bare Metal Before Being Cast In Girder. Reference Sections 511 & 837 Of The Standard Specifications For Bearing Plate Preparation Requirements.

The Contractor Shall Remove Any Rust That Appears In The Field Weld Areas Of The Bearing Plate and Sole Plate By Wire Brushing Just Prior To Field Welding These Plates. All Deck Pours Shall Be Completed Prior To Welding Bearing Plate To Sole Plate.

NOTE: For Anchor Bolt, Anchor Bolt Well, And Clip Angle Details See Std. Dwg. I-131 Sheet 7 of 8.

Girder Type (AASHTO)	Maximum Span Length *	Maximum Load DL + LL	Elastomeric Bearing		Elastomeric Bearing Pad Data								Required 12 Gauge Steel Shim Plates		
					Bearing Pad Dimensions			Individual Layers **				Number	Length	Width	
					Thickness "a"	Length "b"	Width - - -	Exterior		Interior					
								Number	Thickness	Number	Thickness				
Type I	45 ft.	105 kips	B1	2	0.75"	14.5"	9.0"	2	0.375"	- - -	- - -	1	14.25"	8.75"	
Type II	60 ft.	125 kips	B2	2	0.75"	16.5"	9.0"	2	0.375"	- - -	- - -	1	16.25"	8.75"	
Type III	85 ft.	135 kips	B3	2	1.00"	20.5"	9.0"	2	0.250"	1	0.500"	2	20.25"	8.75"	
BT-54	100 ft.	220 kips	B4	2	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	
BT-63	125 ft.	220 kips	B4	2	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	
BT-72	140 ft.	220 kips	B4	2	1.50"	24.5"	9.0"	2	0.1875"	3	0.375"	4	24.25"	8.75"	

* Length Used To Calculate Shear Deformation Of Elastomer.
 ** Exterior Layer Thickness Measured From Outside Surface Of Pad To Cl Shim Pl.
 Interior Layer Thickness Measured From Cl Shim Pl To Cl Shim Pl.

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THIS STANDARD TO BE USED WITH ANY OF THE FOLLOWING STANDARDS REVISIONS		STANDARD FOR STANDARD DETAILS	
DESIGN SECTION SUPERVISOR	ASSISTANT BRIDGE ENGINEER	CHECKED BY:	DRAWN BY: M.G.M.
BRIDGE ENGINEER	DATE CHECKED: 10-26-06	DATE DRAWN:	SCALE:
		STANDARD DWG. NO. I-131 SHEET NO. 8 OF 8	

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