

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						



Bearing stiffener and diaphragm not shown

TOP PLATE OF GIRDER CONNECTION
(STEEL GIRDER)

Designer/Detailer:
Add 2" to the Theoretical value for dimension B in guided and non-guided bearings and add 2" to the theoretical value for dimension A in non-guided bearings to provide a design and construction tolerance.

Designer shall specify grade of steel required

1. All structural steel for the bearing devices, including sole plates, top plates, and masonry plates, shall be AASHTO M270 (ASTM A709) Grade ____ unless otherwise shown. A588 or A572 may be substituted for Grade 36 at no additional cost to the project.
2. Bearing seat elevations at abutments and piers shall be checked and adjusted according to the final dimensions of bearing assemblies adopted.
3. Longitudinal structure movement due to temperature and shrinkage is based on a mid-range temperature of 40°F. If site temperature is not 40°, a longitudinal offset of top elements of the bearing (above sliding surface) shall be made in the field based on the 10° temperature increment in the table. In addition, longitudinal one way structure movement due to prestress shortening and creep shall be accommodated for all temperature ranges with the initial offset in the table away from the fixed bearing.
4. Anchor bolts may be set in wet concrete of bearing seat, or placed within a formed cylindrical void 4" in diameter and then grouted with high strength epoxy grout.
5. The internal surfaces of the pot cavity and the bottom surface of the piston shall be polished after zinc metalizing.

Gd = Guided expansion bearing
Exp = Non-guided (free floating) expansion bearing

ACCEPTABLE ALTERNATES

D. S. Brown Company
North Baltimore, Ohio





Cosmec, Inc.
Walpole, MA

Con-Serv, Inc.
Georgetown, SC

R. J. Watson, Inc.
Amherst, NY
(Disk Bearing Alternate)

Mageba
New York, NY

[illegible]

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATES\$	    	Sheet Revisions			Colorado Department of Transportation		As Constructed		BEARING DEVICE (TYPE III)			Project No./Code	
	File Name: Sheet_B-512-3B.dgn		Date:	Comments	Init.	 2829 West Howard Place, 3rd Floor Denver, CO 80204 Phone: 303-512-4079 FAX: 303-757-9197 Staff Bridge Branch	No Revisions:				Project Number			
	Horiz. Scale: As Noted Vert. Scale: As Noted						Revised:	Designer: XXXXXXXX	Structure Numbers	X-XX-XX	Code			
	Unit Information Unit Leader Initials							Detailler: XXXXXXXX		X-XX-XX				
							Void:	Sheet Subset: BRIDGE	Subset Sheets: BXX of XXX		Sheet Number			