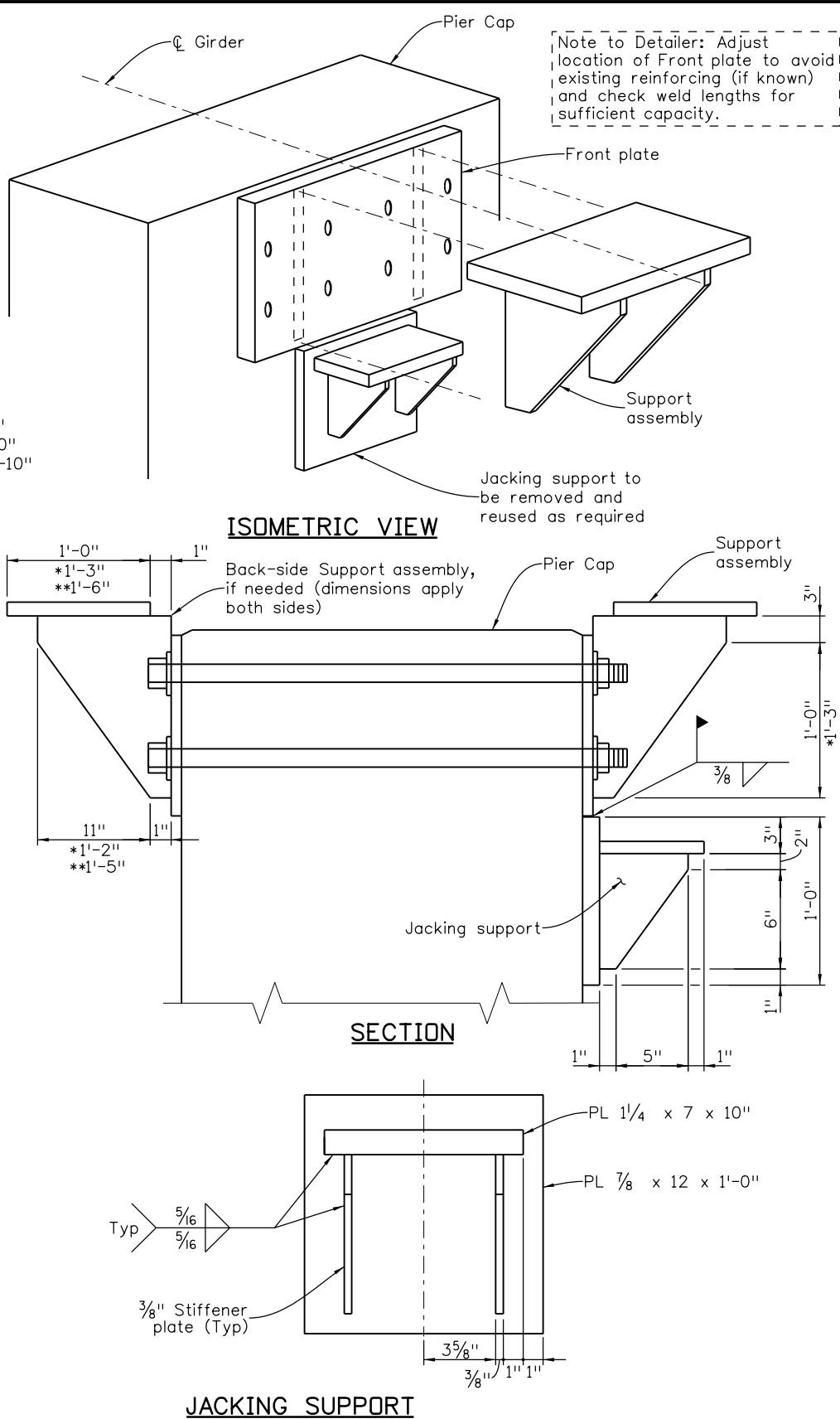
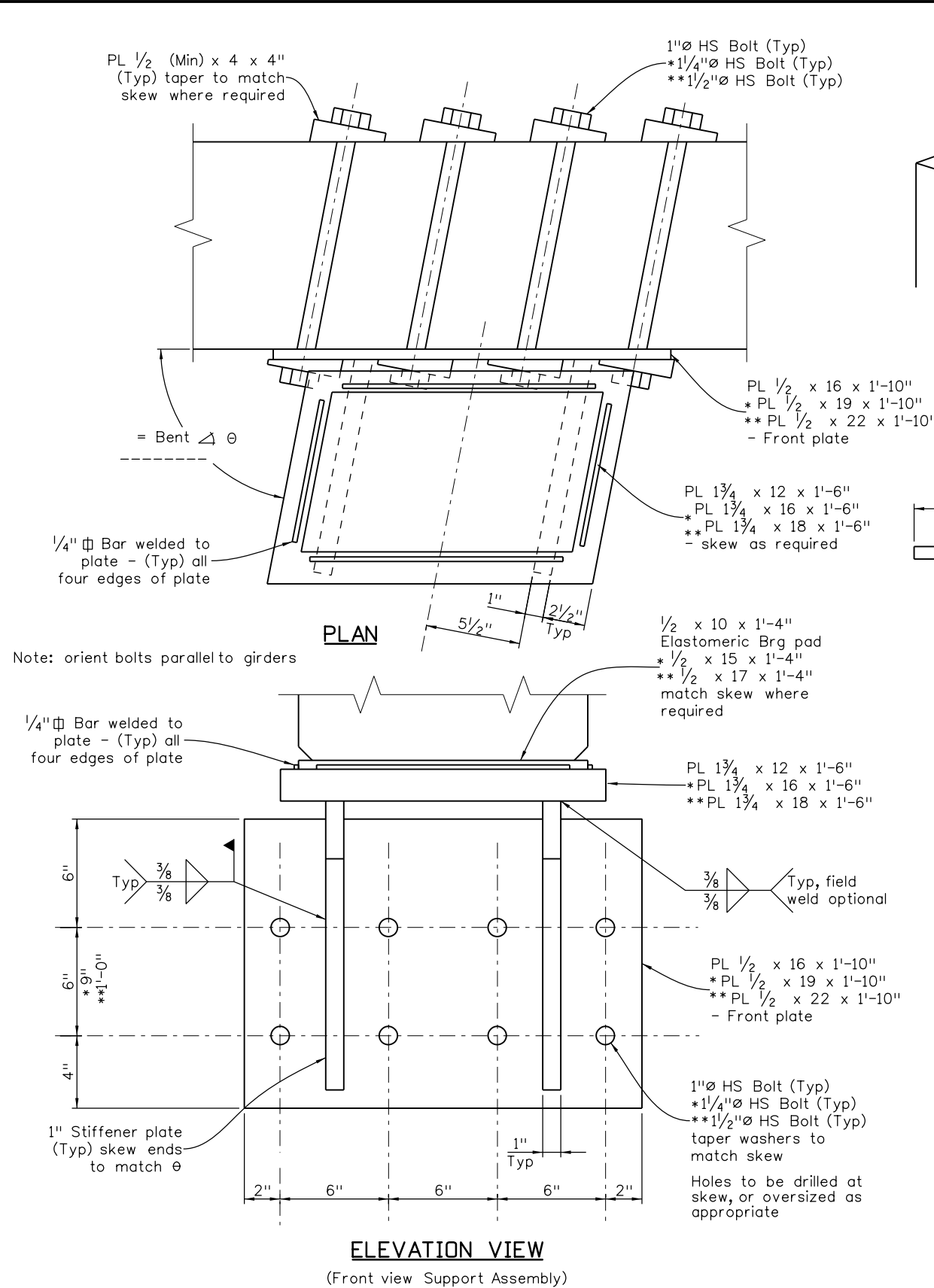


Revision Dates	(Preliminary Stage Only)	3/23
8/95	3/99	11/99
3/99	4/02	9/02
3/07	10/13	

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						



Note to Detailer: Adjust location of Front plate to avoid existing reinforcing (if known) and check weld lengths for sufficient capacity.

- NOTES:**
- Design lengths mentioned below assume a CSG structure type carrying an HS 20-44 loading with an 8" deck and 4" of asphalt.
 - Girder working stress reactions relating to span lengths may be different for different structure types. Girder working stress reactions should be verified.
 - All bolts shall be A449 high strength steel.
 - Grout bolts into holes with a non-shrink epoxy grout.
 - The Contractor shall verify all dimensions prior to ordering materials.
 - Installation and all items shown shall be paid for under Item 512-00120 Bearing Repair Corbel.
 - All welding shall be performed per AWS D1.1 with low hydrogen electrodes.

- SUGGESTED CONSTRUCTION PROCEDURE**
- Remove loose concrete and clean reinforcing steel.
 - Bolt the form in place and restore the pier cap to its original section using an approved grout (Duracal, etc).
 - Allow curing time as recommended by the Manufacturer before removing the form.
 - Locate and mark centerline of the girder on the pier cap.
 - Mark location of bolt holes on pier cap, see elevation view and section.
 - Drill holes in pier cap and place bolts.
 - Cut holes in plywood form to match bolt holes in pier cap.
 - Using the form for a pattern, cut the bolt holes in the front plate.
 - Attach plates and tighten bolts (100 Lb-Ft Torque).
 - Raise the support assembly until the elastomeric pad is compressed 1/16" (200 psix pad area = Jacking Force).
 - Field weld the support assembly to the front plate.
 - Paint all steel as directed by the Engineer.

NOTE TO DESIGNER/DETAILER:

Where one size or dimension is shown, it is good for all designs up to 95 feet.

Where three sizes or dimensions are shown -

No asterisk, For structures with span lengths up to 50 feet (girder working stress reaction = 107 Kip).

* For structures with span lengths up to 80 feet (girder working stress reaction = 154 Kip).

** For structures with span lengths up to 95 feet (girder working stress reaction = 175 Kip).

Delete as needed for your design.

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATE\$	Sheet Revisions		Colorado Department of Transportation		As Constructed		BEARING REPAIR DETAILS		Project No./Code	
	File Name: Sheet_B-509-2D.dgn	Date:	Comments	Init.	2829 West Howard Place, 3rd Floor Denver, CO 80204 Phone: 303-512-4079 FAX: 303-757-9197		No Revisions:		107-175 KIP SKEWED		Project Number
	Horiz. Scale: Not to Scale Vert. Scale: As Noted				Staff Bridge Branch		Revised:		Designer: XXXXXXXX Structure X-XX-XX		Code
Unit Information	Unit Leader Initials				Initials		Void:		Detailer: XXXXXXXX Numbers X-XX-XX		Sheet Number
							Sheet Subset: BRIDGE		Subset Sheets: BXX of XXX		