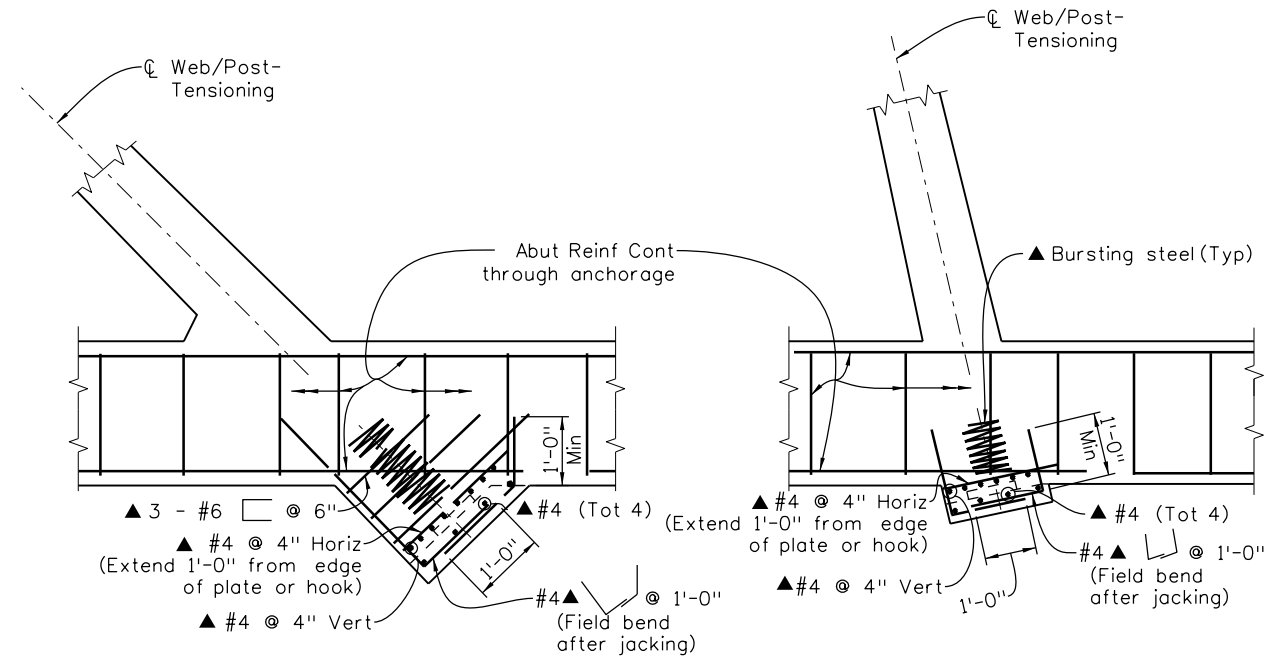


Revision Dates	3/23	9/ 24
3/99	11/99	5/00
4/02	3/07	10/13

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						

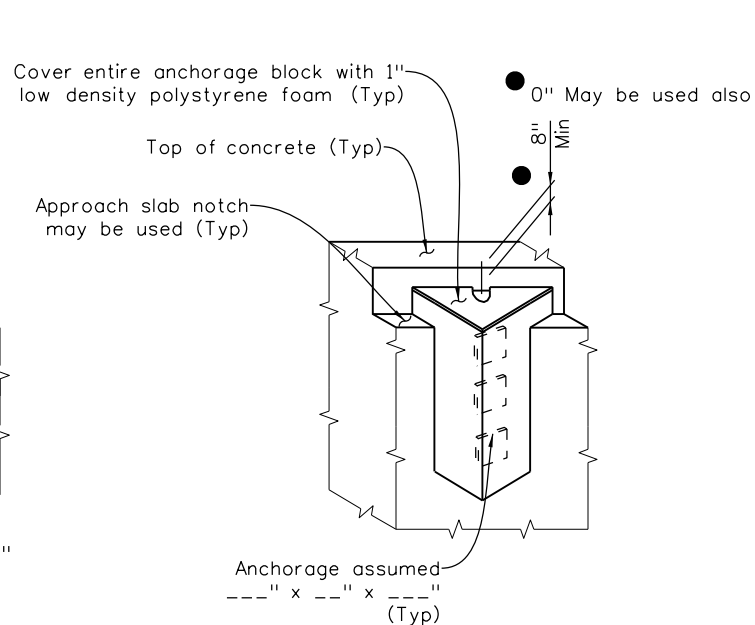


SKEW OVER 20°

PLAN VIEW

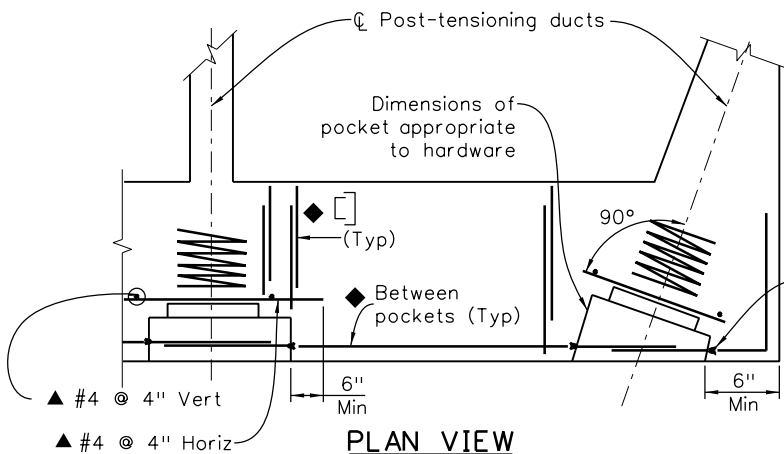
SKEW 20° & UNDER

### SEAT FOR PRESTRESSED ANCHORAGE AT ABUTMENTS

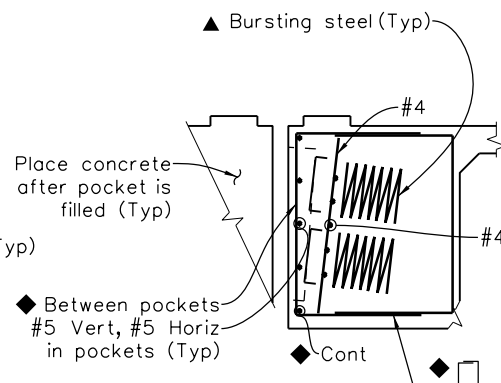


VERTICAL WEB

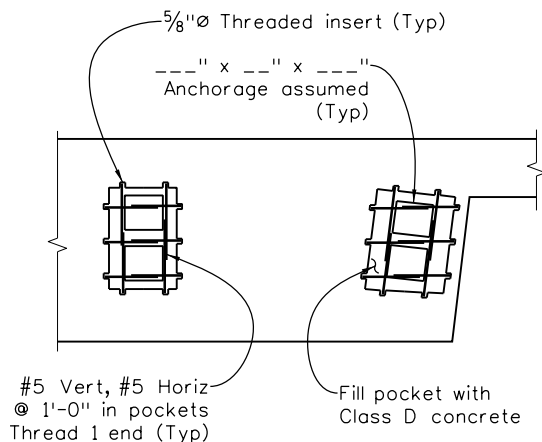
### TYPICAL ANCHORAGE ILLUSTRATIONS



PLAN VIEW



SECTION



ELEVATION

### RECESSED SEAT FOR PRESTRESSED ANCHORAGE

◆ For reinforcing, see superstructure details

NOTE TO DESIGNER: Include the following Project Special Provision, from the CDOT Bridge web page, in the Contract:

Revision of Section 618 Prestressed Concrete

### NOTES:

B-618-6  
(use with B-618-4 and B-618-5)

- There shall be no construction joints under post-tensioning anchorages. A tendon's jacking force shall not exceed 1186 Kip. Only basic bearing plate post-tensioning anchorage devices (anchorages with a ASTM A36 bearing plate) shall be used. Metal castings or composite (a combination of a metal casting and mortar) post-tensioning anchorages shall not be allowed.
- Each anchorage shall be confined within a reinforcing steel spiral (Bursting steel) and spalling reinforcement (The grillage of #4 rebar spaced at 4" horizontally and vertically) shall be placed in front of the bearing plates. Bursting and spalling reinforcement shall be Grade 60, epoxy coating is not required, and conform to the requirements of Section 602. Reinforcing steel spirals shall be one piece, no lap splices.
- The anchorage bearing plates and reinforcing steel spirals shall be covered with concrete to provide a minimum of 4" of cover. All other reinforcing steel shall have a minimum of 2" of concrete cover.
- The distance between the edge of an anchorage bearing plate/reinforcing steel spiral and the edge or corner of the concrete shall be 4" minimum.
- All reinforcing steel designated ▲, and additional concrete required in flares not included in explicit details will not be measured and paid for separately but shall be included in Item 618.
- See abutment and superstructure details for dimensions and reinforcing steel not shown.
- Shop drawings shall be prepared under the supervision (and contain the seal) of a Professional Engineer registered in the State of Colorado and in accordance with the requirements of subsection 618.04 (a) and (c). Shop drawings shall provide:
  - Bearing plate and bursting steel sizes
  - Reinforcing steel bending diagrams for all rebar designated ▲
  - Coordination of anchorages and anchorage reinforcing with other superstructure rebar
  - All dimensions necessary to form concrete recesses or blisters, place anchorages, and all reinforcing steel designated ▲ in accordance with subsection 618.04(c)(6) and (7). Anchorage bearing plates and reinforcing steel spirals shall be provided in accordance with the following table:

P(Jack) (Kip)	f'ci (KSI)	Anchorage Bearing Plate (ASTM A36)		Reinforcing Steel Spiral (Grade 60)			
		Length of a Side (Inches)	Plate Thickness (Inches)	Rebar Size	Outside Diameter (Inches)	Number of Turns	Pitch (Inches)
1186 to 835	3.5 to 4.5	20	2.75	6	25	10	3
	4.5 to 5.5	18	2.75	6	23	10	3
	5.5 to 6.5	17	2.75	6	22	9	3
	6.5 or larger	16	2.75	6	21	9	3
835 to 527	3.5 to 4.5	16	2.25	6	21	9	3
	4.5 to 5.5	15	2.25	6	20	8	3
	5.5 to 6.5	14	2.25	6	19	8	3
	6.5 or larger	13	2.25	6	18	8	3
527 to 308	3.5 to 4.5	13	1.75	5	18	8	3
	4.5 to 5.5	12	1.75	5	17	7	3
	5.5 to 6.5	11	1.75	5	16	7	3
	6.5 or larger	10	1.75	5	15	7	3
308 or less	3.5 to 4.5	10	1.5	4	14	6	3
	4.5 to 5.5	9	1.5	4	13	6	3
	5.5 to 6.5	9	1.5	4	13	6	3
	6.5 or larger	8	1.5	4	12	6	3

P(Jack) = Tendon jacking force  
f'ci = Minimum concrete strength of stressing

All seals for this set of drawings are applied to the cover page(s)	Print Date: \$DATE\$	<div></div> <div></div> <div></div> <div></div> <div></div>	Sheet Revisions			<div><div><div></div></div><div><div></div></div></div> <div>2829 West Howard Place, 3rd Floor Denver, CO 80204 Phone: 303-512-4079 FAX: 303-757-9197</div> <div>Staff Bridge Branch</div> <div>Initials</div>	As Constructed	CAST-IN-PLACE POST-TENSIONED T-GIRDER DETAILS			Project No./Code
	File Name: Sheet_B-618-6.dgn		Date:	Comments	Init.		No Revisions:				Project Number
	Horiz. Scale: None      Vert. Scale: As Noted						Revised:	Designer:    XXXXXXXX	Structure    X-XX-XX		
	Unit Information      Unit Leader Initials						Void:	Detailer:    XXXXXXXX	Numbers    X-XX-XX	Code	
								Sheet Subset:    BRIDGE	Subset Sheets: BXX of XXX	Sheet Number	