

NOTES:

All tubes shall be ASTM A-500 Grade B.
All posts and base plates shall be ASTM A-572 Grade 50.
All other steel shall be ASTM A-36 unless otherwise noted.

The above material and all anchor bolts and miscellaneous bolts, nuts, and washers shall be galvanized after fabrication in accordance with Section 509. Concrete, reinforcing steel, and structural steel elements shall conform to the requirements of sections 601, 602 and 509, respectively.

Post anchor, encased in concrete, shall be ASTM A-36 (AASHTO M-183) steel and need not be galvanized.

The tubes shall be shop bent or fabricated to fit horizontal curve when radius is less than 1,500 feet.

Tubes shall be continuous over not less than two posts. No welded butt splices will be allowed in the tube sections.

The centerline of the tube splice shall be 1'-8" minimum and 2'-6" maximum from the centerline of the posts.

All bolts that have lock washers shall be tightened to snug only.

Posts shall be perpendicular to the longitudinal roadway grade.

One or more 10'-0" post spacings may be reduced (6'-8" min.) in order to maintain dimensions from the end of the rail and expansion joints.

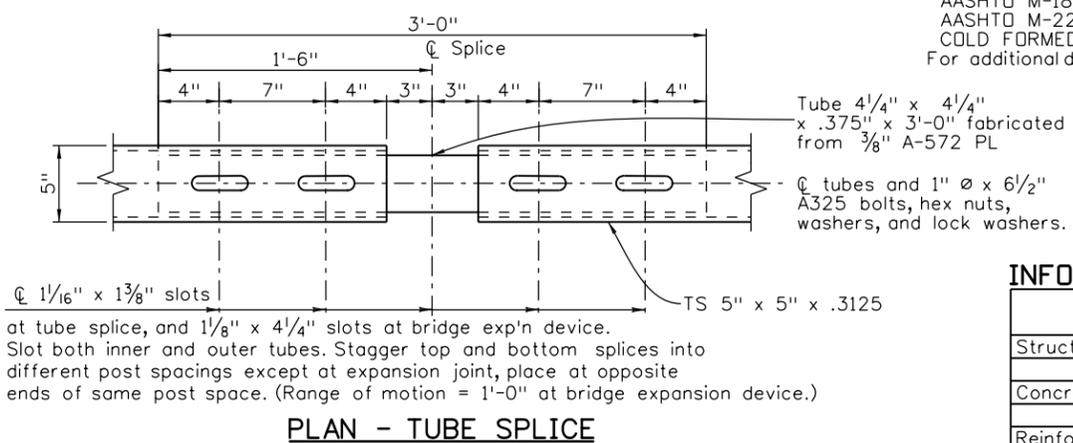
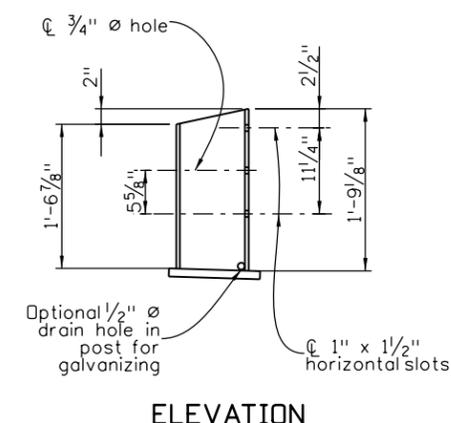
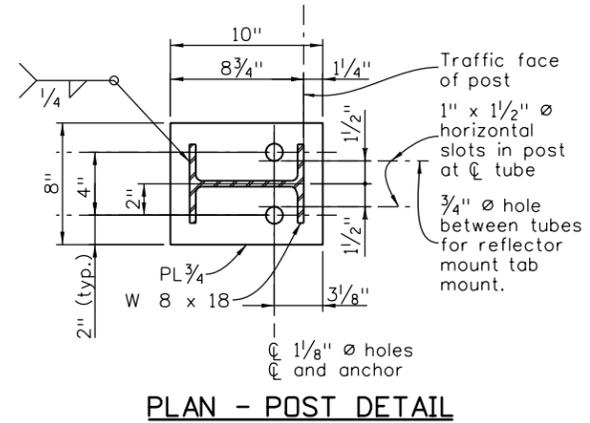
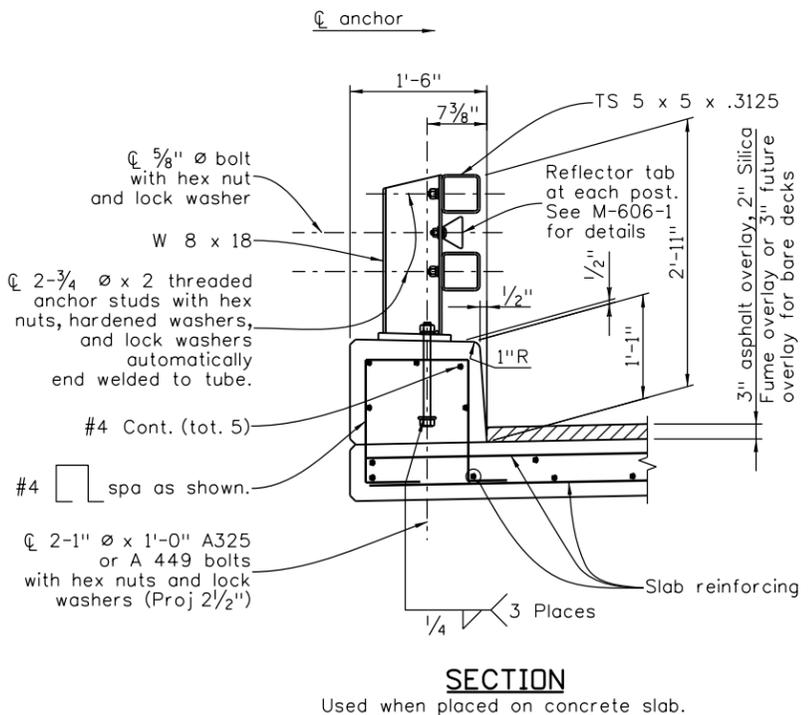
Payment will be made under item 606, Bridge Rail type 10M for all posts, post anchors, base plates, backing plates, anchor bolts, miscellaneous bolts, nuts, washers, tubes, tube expansion devices, tube splices, end plates, curb concrete (Class D), curb reinforcing steel, and reflector tabs.

Prior to fabrication of this item, three sets of working drawings which comply with the requirements of section 105, shall be submitted to the Engineer for information only.

Structural Steel:
AASHTO M-183 (ASTM A-36) $f_y = 36,000$ psi
AASHTO M-223 (ASTM A-572) GRADE 50 $f_y = 50,000$ psi
COLD FORMED ASTM A-500 GRADE B $f_y = 46,000$ psi
For additional details see next rail sheets.

Revision Dates (Preliminary Stage Only)	10/13
	3/07
	6/04
	4/02
	5/01
	5/00
	11/99
	3/99

Design	INITIAL	DATE	Quantity	INITIAL	DATE
	Designed By	MM/YY		Checked By	MM/YY
Detail	INITIAL	DATE	Quantity	INITIAL	DATE
	Detailed By	MM/YY		Checked By	MM/YY



INFORMATION ONLY

DESCRIPTION	UNIT	PER LIN. FT.
Structural Steel (Galvanized)	LB.	45.1
Concrete Class D (Bridge)	CU.YD.	.06
Reinforcing Steel (Epoxy Coated)	LB.	6.6

Print Date: \$DATE\$	Sheet Revisions			Colorado Department of Transportation		As Constructed		BRIDGE RAIL TYPE 10M		Project No./Code	
File Name: Sheet_B-606-10.dgn	Date:	Comments	Init.	4201 East Arkansas Avenue Room 107 Denver, CO 80222 Phone: 303-757-9309 FAX: 303-757-9197		No Revisions:		Designer: XXXXXXXX Structure X-XX-XX Detailer: XXXXXXXX Numbers X-XX-XX Sheet Subset: BRIDGE Subset Sheets: BXX of XXX		Project Number	
Horiz. Scale: NTS Vert. Scale: As Noted						Revised:				Code	
Staff Bridge Branch - Unit 022X Unit Leader Initials						Void:				Sheet Number	
				Staff Bridge Branch		Initials					