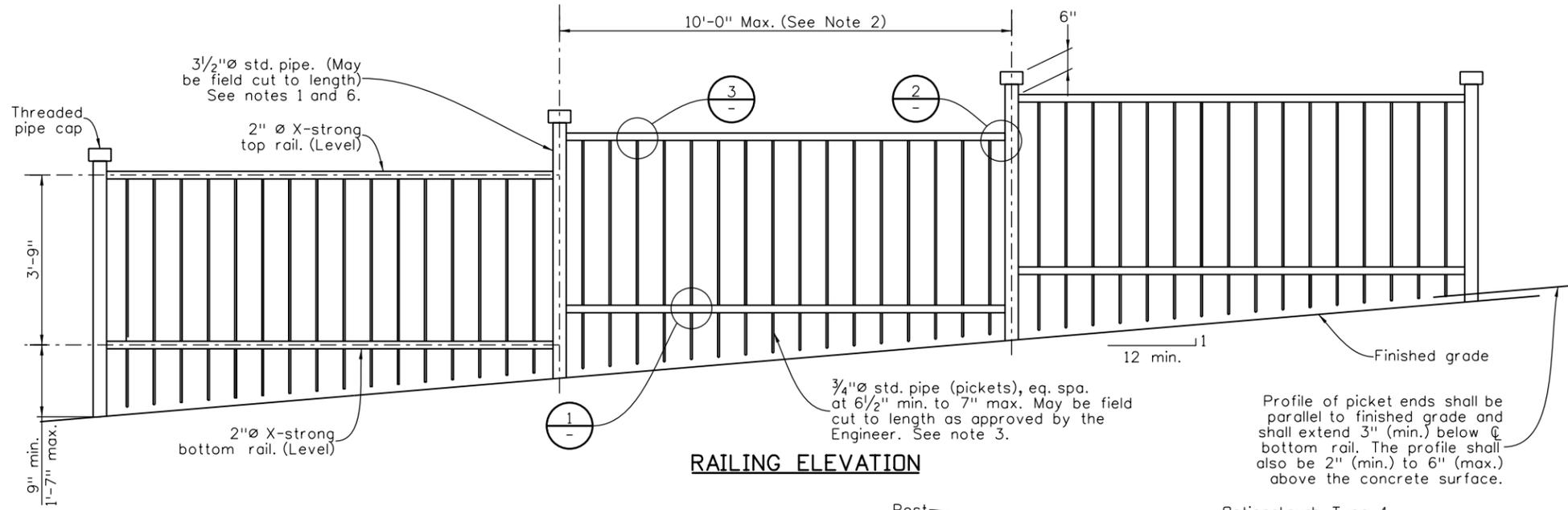
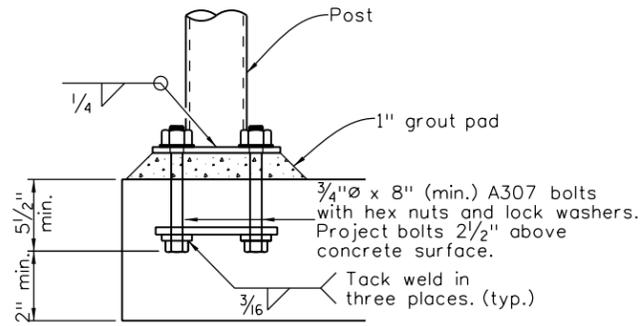


NOTES:

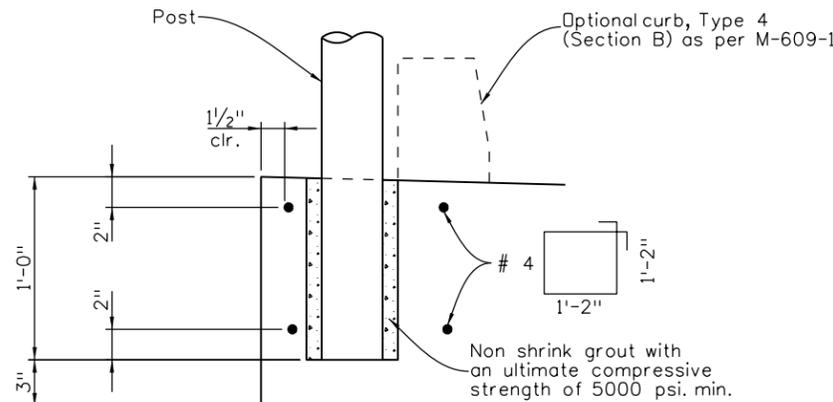
1. Painted posts may be field fabricated as approved by the Engineer. No detail changes will be allowed to field fabricate posts. Posts with misaligned pins will be rejected.
2. All railing panels shall be shop fabricated.
3. Seal picket ends with threaded pipe caps when not installed next to a curb. Field cut ends, without pipe caps, shall be ground smooth to preclude personal injury to the general public.
4. All pipe shall meet the requirements in ASTM A53 for Grade B steel and all plates and bars shall meet the requirements in AASHTO M270 for Grade 36 steel.
5. Concrete (Class D) shall be used to support rail posts.
6. Posts shall be installed in a properly reinforced slab.
7. Holes in rails, for pickets, and holes in posts, for pins, shall be drilled.
8. Railing components may be painted as per the standard specifications, or galvanized in accordance with ASTM A123.
9. Railing will be paid for, by the linear foot, as Item 514 Pipe Railing.
10. Railing accommodates pedestrians and bicycles in accordance with the 16th edition of the AASHTO Standard Specifications For Highway Bridges.



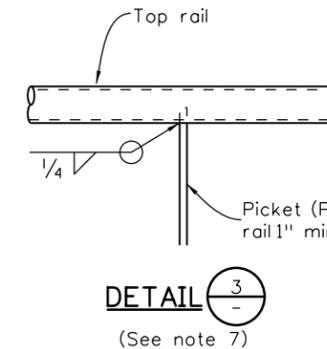
RAILING ELEVATION



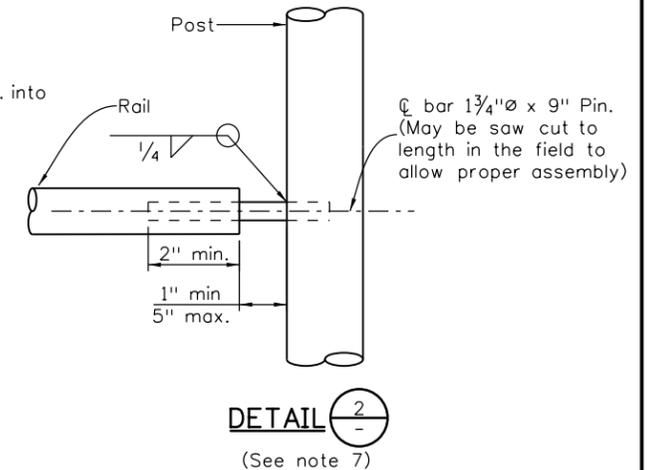
ELEVATION



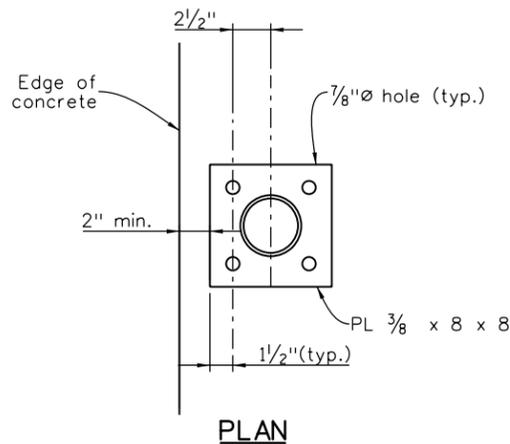
ELEVATION



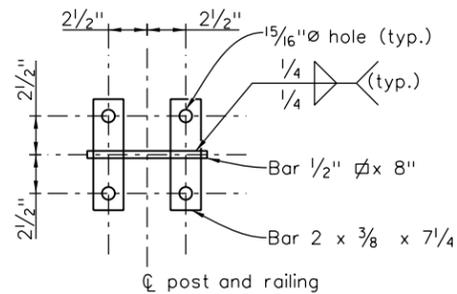
DETAIL 3
(See note 7)



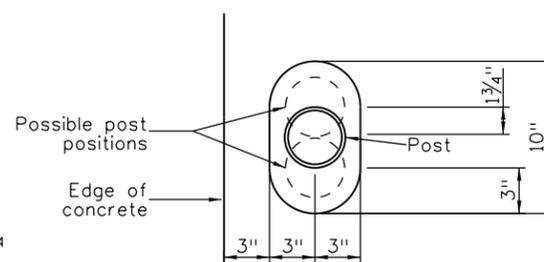
DETAIL 2
(See note 7)



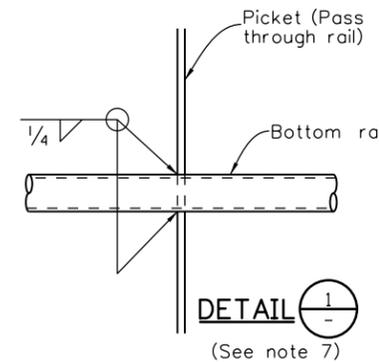
PLAN



ANCHORAGE DETAIL



PLAN
POCKET CONNECTION



DETAIL 1
(See note 7)

SUMMARY OF APPROX. QUANTITIES

(For Information Only)

ITEM No.	DESCRIPTION	Unit	WITH BASE PL	WITH POST POCKET
509	Structural Steel (Galvanized)	lb./ft.	26.5	25.8
602	Reinforcing Steel (Epoxy Coated)	lb./ft.		0.7

▼ Galvanizing is not required for painted railing.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
MM/YY	MM/YY	MM/YY	MM/YY	MM/YY	MM/YY
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By
XXX	XXX	XXX	XXX	XXX	XXX

Print Date: \$DATE\$
File Name: Sheet_B-514-PR.dgn
Horiz. Scale: NTS Vert. Scale: As Noted
Staff Bridge Branch - Unit 022X Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

4201 East Arkansas Avenue
Room 107
Denver, CO 80222
Phone: 303-757-9309 FAX: 303-757-9197

Staff Bridge Branch Initials

As Constructed
No Revisions:
Revised:
Void:

PIPE RAILING			
Designer:	XXXXXXXX	Structure	X-XX-XX
Detailer:	XXXXXXXX	Numbers	X-XX-XX
Sheet Subset:	BRIDGE	Subset Sheets:	BXX of XXX

Project No./Code
Project Number
Code
Sheet Number