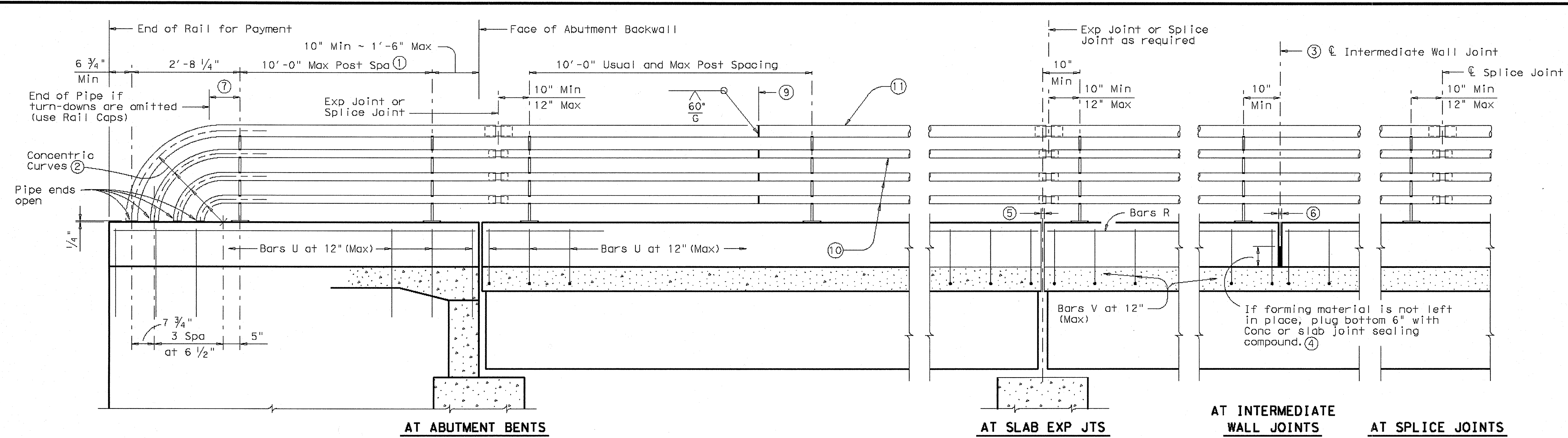
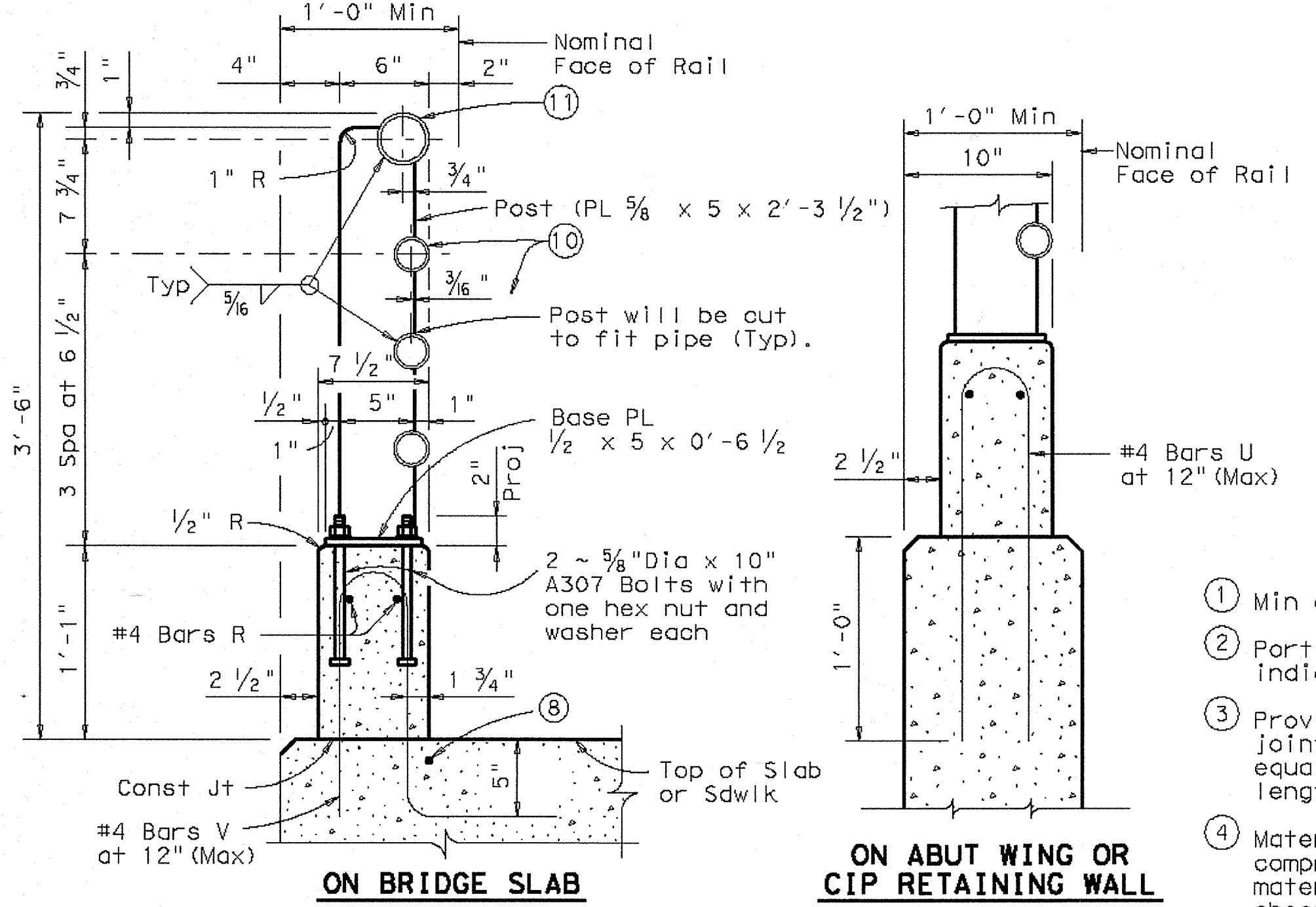


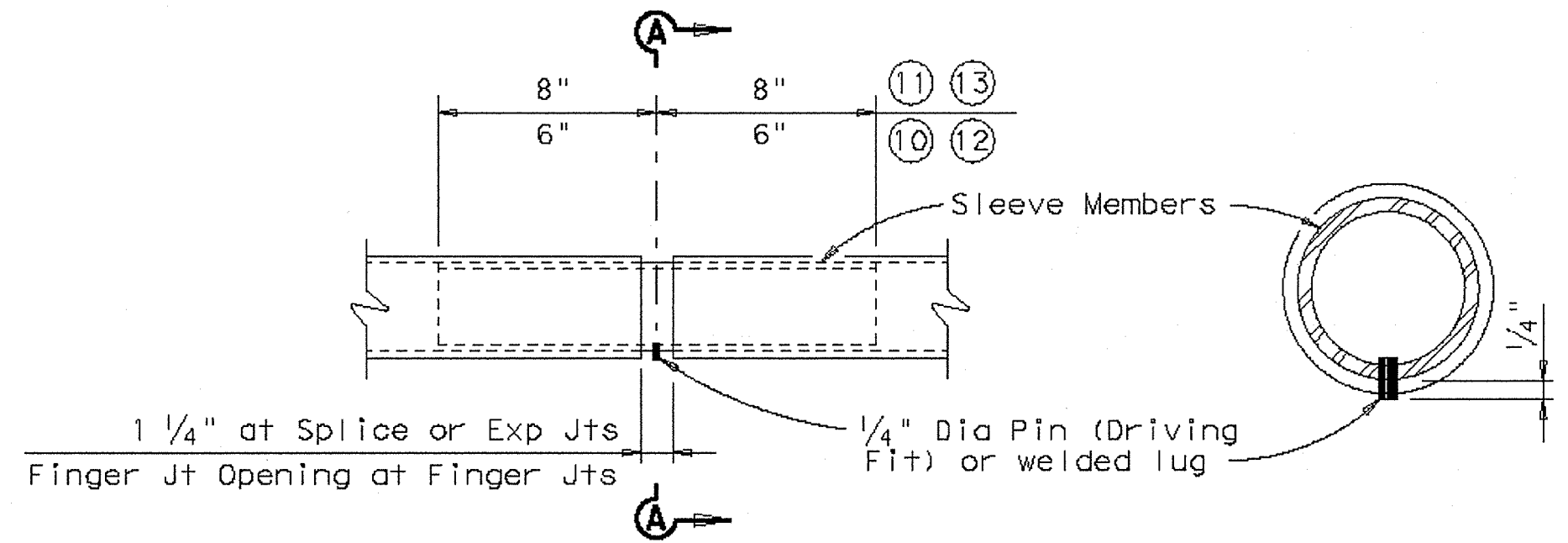
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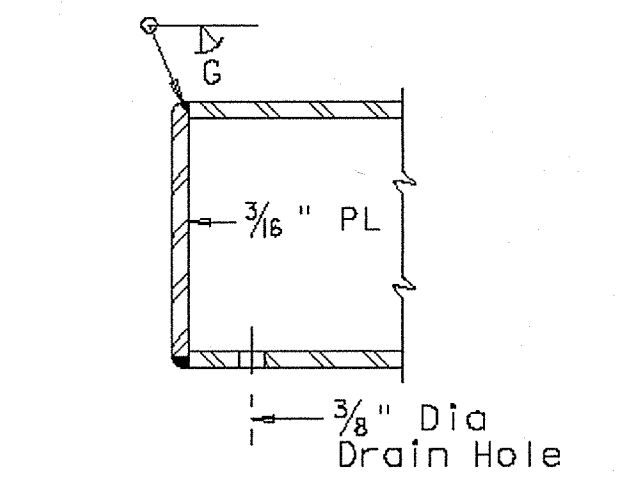
ROADWAY ELEVATION OF RAIL



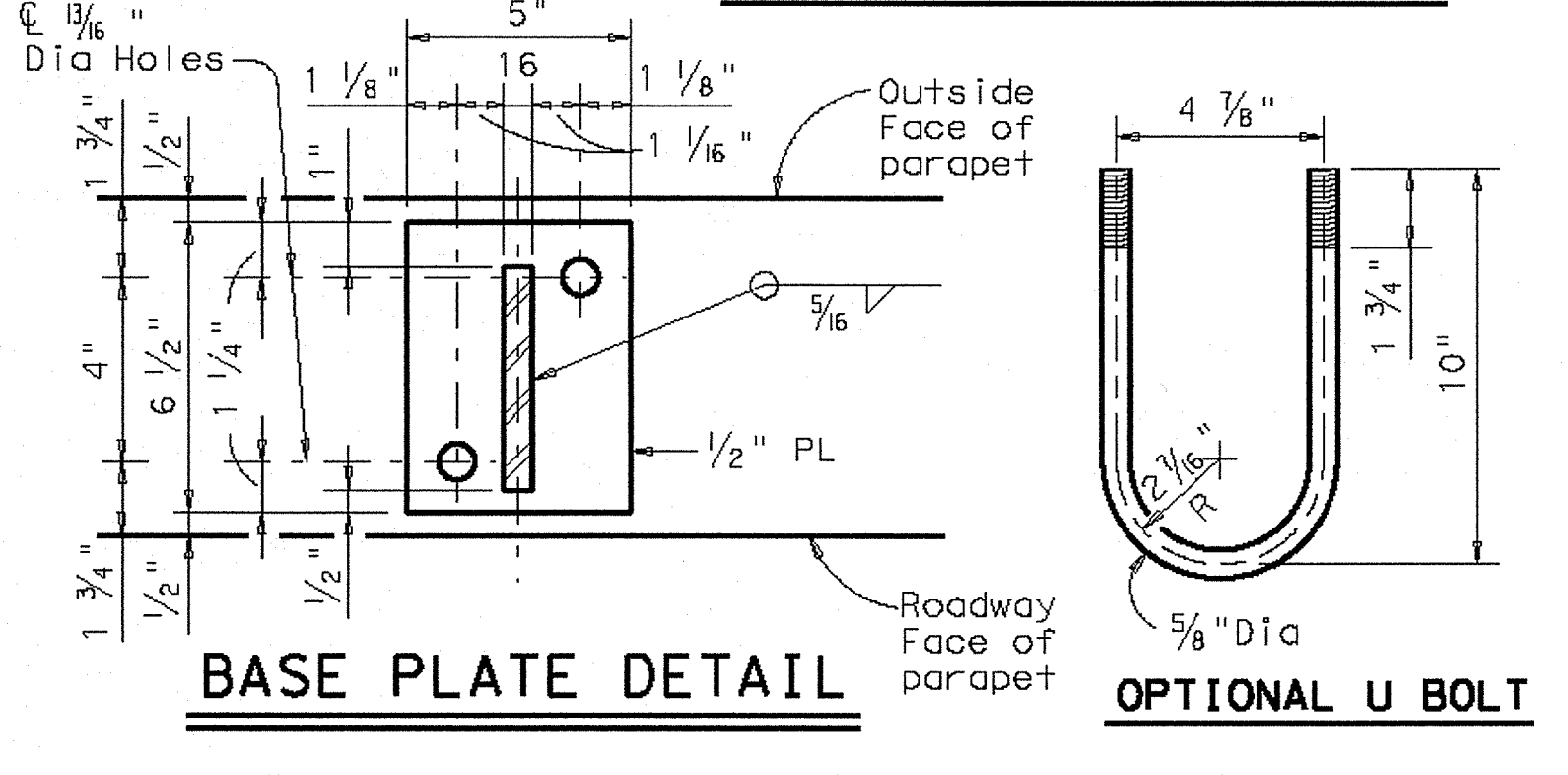
SECTIONS THRU RAIL



PIPE SPLICE DETAIL



RAIL CAP DETAIL



BASE PLATE DETAIL

OPTIONAL U BOLT

- ① Min of 2 posts required on wingwall.
- ② Portion of railing with turn-downs to be used or omitted as indicated on Bridge Layout.
- ③ Provide intermediate wall joints over all slab construction joints, over interior supports on continuous units, and at equal intervals in between as necessary to maintain a 33' Max length of unbroken wall.
- ④ Material used in forming joint may be left in place if it is compressible and light in color such as the following materials: polystyrene, molded cork granules, sponge rubber sheet, etc.
- ⑤ Same as Slab opening
- ⑥ 1/4" Min ~ 3/4" Max
- ⑦ 10" Min ~ 1'-6" Max if turn-downs are omitted.
- ⑧ Top longitudinal slab bar may be adjusted laterally 3" ± to tie rail reinforcing.
- ⑨ One shop splice per panel is permitted (with minimum 85 percent penetration). The weld may be square groove or single vee groove. Grind smooth.
- ⑩ 2" Std Pipe (2.375" O.D., 0.154" wall thickness)
- ⑪ 3" Std Pipe (3.500" O.D., 0.216" wall thickness)
- ⑫ 1 1/2" Std Pipe (1.900" O.D., 0.145" wall thickness)
- ⑬ 2 1/2" Std Pipe (2.875" O.D., 0.203" wall thickness)

GENERAL NOTES:
Designed according to current AASHTO Standard Specifications for Highway Bridges.
Rail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.
Pipe for pipe rail shall conform to ASTM A53 Grade B or A501.
Posts and Plates shall be ASTM A36.
Panel lengths of railing shall be attached to a minimum of three posts except on abutment wingwalls.
All steel components to be galvanized unless otherwise shown on plans.
Anchor bolts shall be 5/8" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one 1 3/4" O.D. hardened steel washer at each bolt.
Threaded rods may be 0.557" minimum diameter with rolled threads. Nuts shall conform to A563 requirements. The untapped blanks shall be galvanized prior to cutting the threads. Threads for bolts and nuts shall have Class 2A and 2B fit tolerances in accordance with ASME B1.1.
Face of rail, posts and parapet shall be vertical transversely unless otherwise approved by the Engineer. Rail posts shall be perpendicular to top of adjacent concrete parapet grade. Grout may be used under base plates if necessary.
For curved railing applications, fabricate the pipes rails when the radius is 600' or less. Submit shop drawings for approval when tubes are required to be fabricated to a radius. Shop drawings shall be submitted to the Engineer for approval and may be submitted as 11"x17" prints, provided they are clearly legible.
For all rails, erection drawings showing section lengths, splice locations, rail post spacing and anchor bolt setting shall be submitted to the Engineer for approval.
Exposed edges of pipe rail and pipe rail posts shall be rounded or chamfered to approximately 1/8" by grinding.
All concrete shall be Class "C".
Epoxy coat Bars V and U if slab bars are epoxy coated.
All reinforcing shall be Grade 60.
Average weight of railing: 102 plf ~ Conc (with no Overlay)
23 plf ~ Steel

Texas Department of Transportation
Bridge Division

PEDESTRIAN RAIL

TYPE PR2

| | | | | |
|---|-----------|---------------------|----------|-----------|
| FILE: r1stde35.dgn | DW: TxDOT | CK: TxDOT | DWR: JTR | CS: TxDOT |
| © TxDOT February 2003 | DISTRICT | FEDERAL AID PROJECT | SHEET | |
| REVISIONS | | | | |
| 4-05: Minor corrections & modified notes. | COUNTY | CONTROL | SECT | JOB |
| | | | | HIGHWAY |

RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE CONTRACTORS AND SURVEYED GRADES.