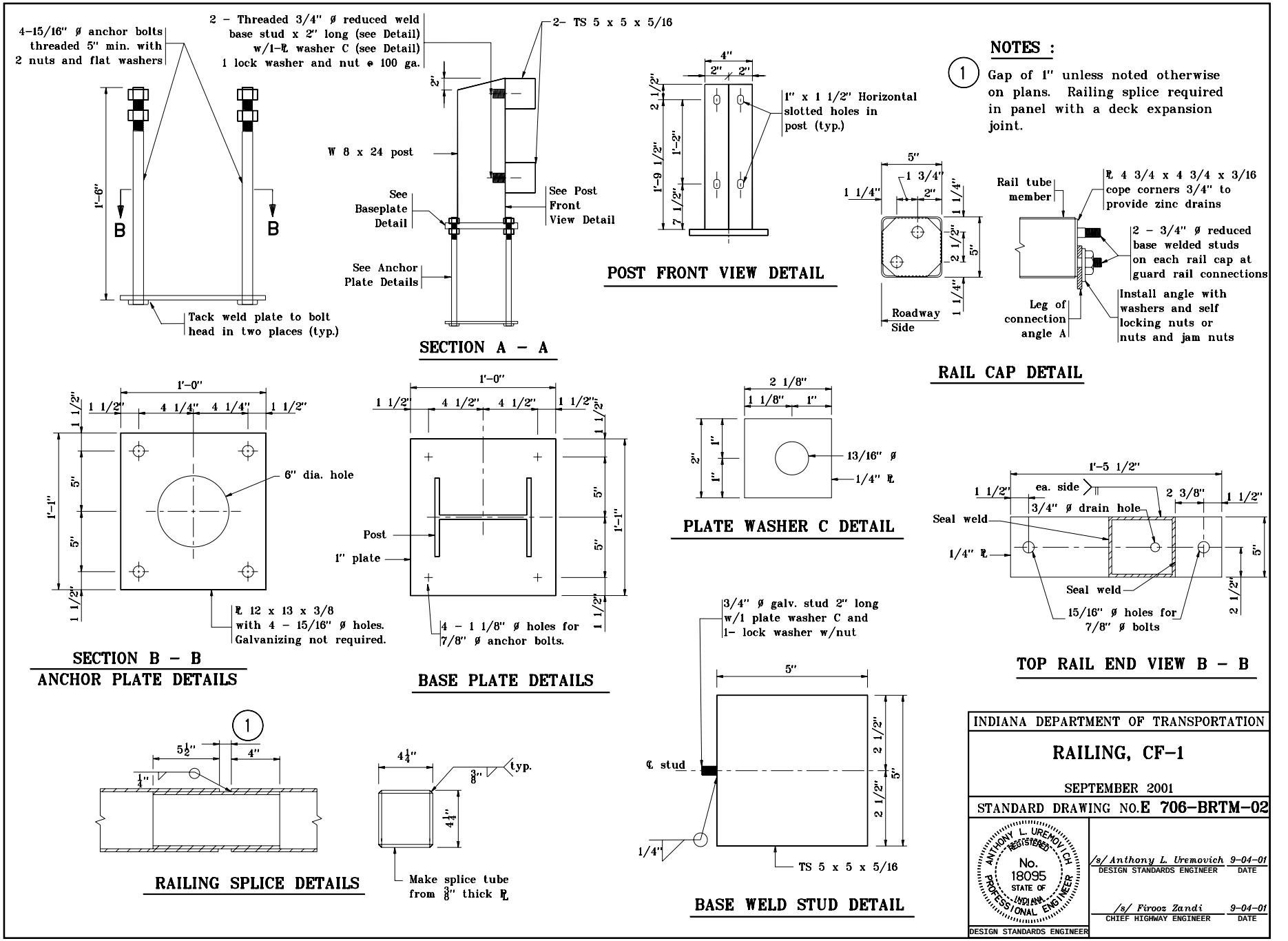
4-15/16" ø anchor bolts threaded 5" min. with 2 nuts and flat washers
2 - Threaded 3/4" ø reduced weld base stud x 2" long (see Detail) w/1-PL washer C (see Detail) 1 lock washer and nut @ 100 ga.
2- TS 5 x 5 x 5/16
1'-6"
B
B
2"
W 8 x 24 post
See Baseplate Detail
See Anchor Plate Details
See Post Front View Detail
Tack weld plate to bolt head in two places (typ.)
SECTION A - A
4"
2" 2"
2 1/2"
1'-9 1/2"
1'-2"
7 1/2"
1" x 1 1/2" Horizontal slotted holes in post (typ.)
POST FRONT VIEW DETAIL
NOTES :
1 Gap of 1" unless noted otherwise on plans. Railing splice required in panel with a deck expansion joint.
5"
1 3/4"
2"
1 1/4"
1 1/4"
2 1/2"
5"
1 1/4"
Roadway Side
Rail tube member
PL 4 3/4 x 4 3/4 x 3/16 cope corners 3/4" to provide zinc drains
2 - 3/4" ø reduced base welded studs on each rail cap at guard rail connections
Leg of connection angle A
Install angle with washers and self locking nuts or nuts and jam nuts
RAIL CAP DETAIL
1'-0"
1 1/2" 4 1/4" 4 1/4" 1 1/2"
1 1/2"
5"
5"
1'-1"
1 1/2"
6" dia. hole
PL 12 x 13 x 3/8 with 4 - 15/16" ø holes. Galvanizing not required.
SECTION B - B
ANCHOR PLATE DETAILS
1'-0"
1 1/2" 4 1/2" 4 1/2" 1 1/2"
1 1/2"
5"
5"
1'-1"
1 1/2"
Post
1" plate
4 - 1 1/8" ø holes for 7/8" ø anchor bolts.
BASE PLATE DETAILS
2 1/8"
1 1/8" 1"
2"
1"
1"
13/16" ø
1/4" PL
PLATE WASHER C DETAIL
1'-5 1/2"
1 1/2"
ea. side
2 3/8"
1 1/2"
3/4" ø drain hole
Seal weld
1/4" PL
5"
Seal weld
2 1/2"
15/16" ø holes for 7/8" ø bolts
TOP RAIL END VIEW B - B
1
5 1/2"
4"
1/4"
RAILING SPLICE DETAILS
4 1/4"
3/8"
typ.
4 1/4"
Make splice tube from 3/8" thick PL
3/4" ø galv. stud 2" long w/1 plate washer C and 1- lock washer w/nut
5"
℄ stud
2 1/2"
5"
2 1/2"
1/4"
TS 5 x 5 x 5/16
BASE WELD STUD DETAIL
INDIANA DEPARTMENT OF TRANSPORTATION
RAILING, CF-1
SEPTEMBER 2001
STANDARD DRAWING NO. E 706-BRTM-02
ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER
/s/ Anthony L. Uremovich 9-04-01
DESIGN STANDARDS ENGINEER DATE
/s/ Firooz Zandi 9-04-01
CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER