

NOTES:

DESIGN LIVE LOADS:

POST AND BASE PLATE: EQUIVALENT POINT LOAD=200 LB/LOAD+(50 LB/FTx POST SPACING (FT))
APPLIED TRANSVERSELY AT TOP RAIL CONNECTION.

TOP AND BOTTOM RAILS: 50 LB/FT UNIFORM LOAD APPLIED SIMULTANEOUSLY VERTICALLY AND
TRANSVERSELY+ 200 LB. CONCENTRATED POINT LOAD APPLIED AT MIDSPAN IN THE DIRECTIONS
FOR BOTH MAXIMUM STRESS AND DEFLECTION.

PICKETS: CONCENTRATED 200 LB LOAD APPLIED TRANSVERSELY OVER AN AREA OF 1.0 SQUARE FOOT.

GEOMETRY:

CLEAR OPENING BETWEEN PICKETS: SHALL REJECT THE PASSAGE OF A 4" DIAMETER SPHERE BELOW 42" HEIGHT,
AND A 8" DIAMETER SPHERE ABOVE 42" HEIGHT.

CLEAR OPENING UNDER BOTTOM RAIL: SHALL REJECT THE PASSAGE OF A 2"
DIAMETER SPHERE.

PEDESTRIAN RAILING HEIGHT: 42" MINIMUM.

BICYCLE RAILING HEIGHT: 54" MINIMUM.

DEFLECTION:

TOTAL COMBINED DEFLECTION OF THE RAILING SYSTEM INCLUDING THE
NEOPRENE PADS, DUE TO THE TOP RAIL DESIGN LIVE LOADS, SHALL NOT EXCEED
1 1/2" WHEN MEASURED AT MIDSPAN OF THE TOP RAIL.

RAIL, PICKETS & POSTS:

STRUCTURAL TUBE AND PIPE SHALL BE IN ACCORDANCE WITH ASTM B221 OR ASTM B429,
ALLOY 6061-T6. END RAIL 90° BENDS MAY BE ALLOY 6063-T6. POSTS AND ENDS RAILS
SHALL BE FABRICATED AND INSTALLED PLUMB, ±1" TOLERANCE WHEN MEASURED AT 3'-6"
ABOVE THE FOUNDATION.

PICKETS SHALL BE FABRICATED PARALLEL TO THE POSTS. CORNERS AND CHANGES IN
TANGENTIAL LONGITUDINAL ALIGNMENT, SHALL BE MADE CONTINUOUS WITH A FULLY WELDED MITERED JOINT.
FOR CHANGES IN TANGENTIAL LONGITUDINAL ALIGNMENT GREATER THAN 45°, POSTS SHALL BE
LOCATED AT A MAXIMUM DISTANCE OF 2'-0" EACH SIDE OF THE CORNER AND SHALL NOT BE
LOCATED AT THE CORNER APEX. FOR CURVED LONGITUDINAL ALIGNMENTS THE TOP AND BOTTOM
RAILS SHALL BE SHOP BENT TO MATCH THE ALIGNMENT RADIUS.

IDENTIFICATION LABEL:

EACH FIELD SECTION OF RAILING MUST HAVE AN IDENTIFICATION LABEL AT THE
BASE OF A POST WITH THE COMPANY NAME, MANUFACTURER AND FDOT QPL NUMBER.

U.S. PATENTS NO. 6,811,146 & 7,168,689

THIS PRODUCT IS A PROPRIETARY DESIGN AND MAY ONLY BE
MANUFACTURED UNDER LICENSE FROM PEDRO P. GIRALT, P.E.

BASE PLATES & POST CAPS:

BASE PLATES AND POST CAP PLATES SHALL BE IN ACCORDANCE WITH ASTM B209,
ALLOY 6061-T6.

COATINGS:

THE ALUMINUM RAILING SHALL BE MILL FINISH UNLESS OTHERWISE NOTED
IN THE CONTRACT DOCUMENTS.

ALL ANCHORS BOLTS, NUTS, AND WASHERS SHALL BE HOT DIP GALVANIZED
IN ACCORDANCE WITH SECTION 962-7 OF THE SPECIFICATIONS.

ANCHOR BOLTS:

ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 36. HEADLESS
ANCHOR BOLTS SHALL BE THREADED FULL LENGTH. ALL ANCHOR BOLTS SHALL HAVE
SINGLE SELF-LOCKING HEX NUTS. ALL NUTS SHALL BE IN ACCORDANCE WITH ASTM A563
OR ASTM A194. FLAT WASHERS SHALL BE IN ACCORDANCE WITH ASTM F436. AFTER THE
NUTS HAVE BEEN SNUG TIGHTENED, THE ANCHOR BOLT THREADS SHALL BE DISTORTED TO
PREVENT REMOVAL OF THE NUTS.

DISTORTED THREADS SHALL BE COATED WITH A GALVANIZING COMPOUND IN ACCORDANCE
WITH THE SPECIFICATIONS.

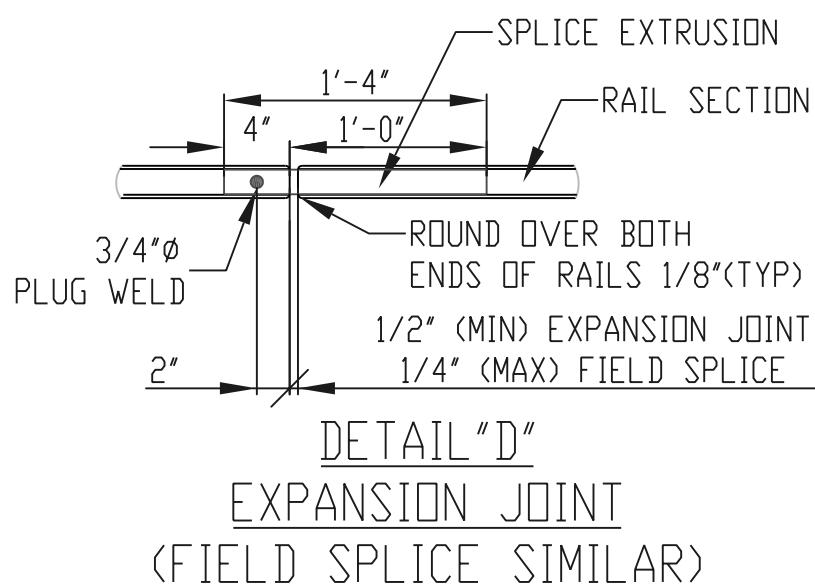
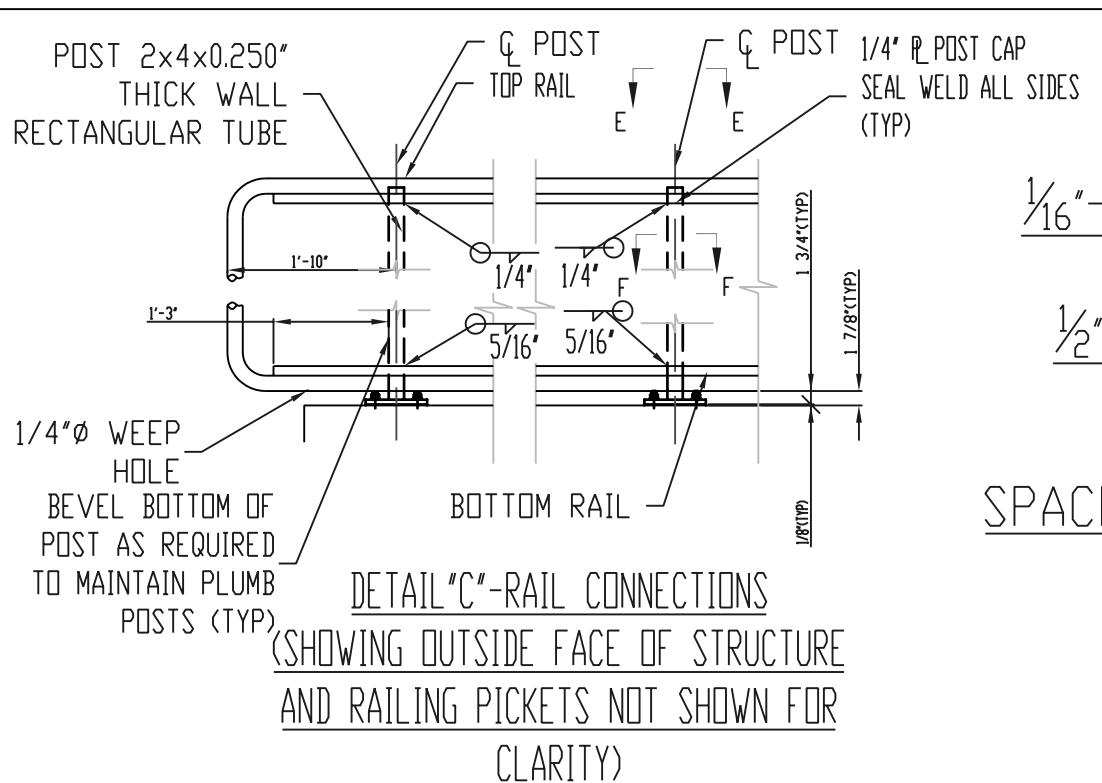
WELDING:

ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STRUCTURAL
WELDING CODE (ALUMINUM) ANSI/AWS D1.2 (CURRENT EDITION).

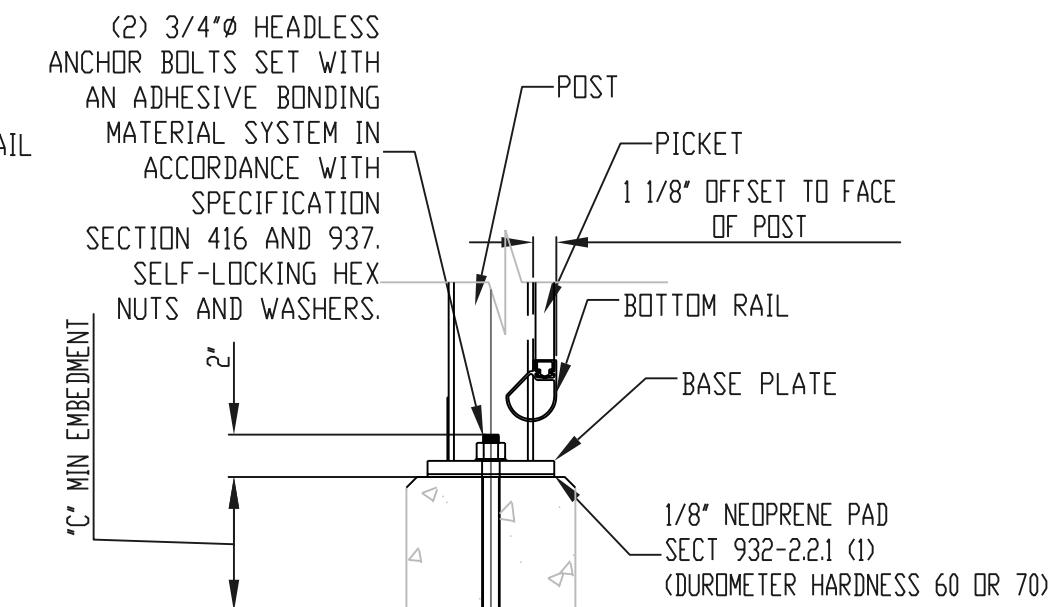
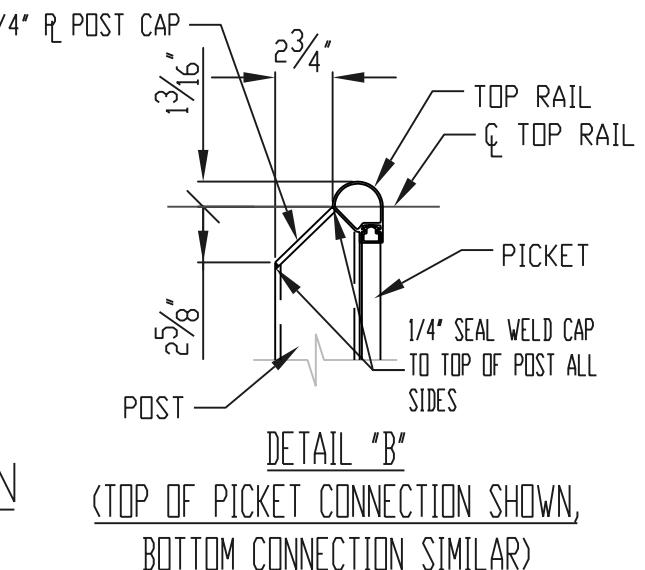
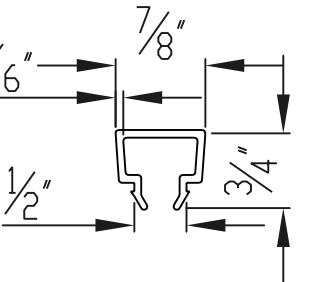
FILLER METAL SHALL BE EITHER ER5183, ER5356 OR ER5556. NONDESTRUCTIVE TESTING OF
WELDS SHALL NOT BE REQUIRED.

REVISIONS			ALUMINUM PEDESTRIAN/BICYCLE PICKET RAILING		DRAWN BY: JES
NO.	DATE	BY	DATE:	QPL INDEX NO. DI 860-001	
1	07/22/02	PPG	04/30/02		
2	08/20/03	PPG	CHECKED BY: PPG		SCALE: NTS
3	09/03/03	PPG			SHEET 1 OF 2
4	11/10/04	PPG	APPROVED BY: PPG		DRAWING NO: GEI02-07
5	1-25-07	PPG			
6			FOR:		

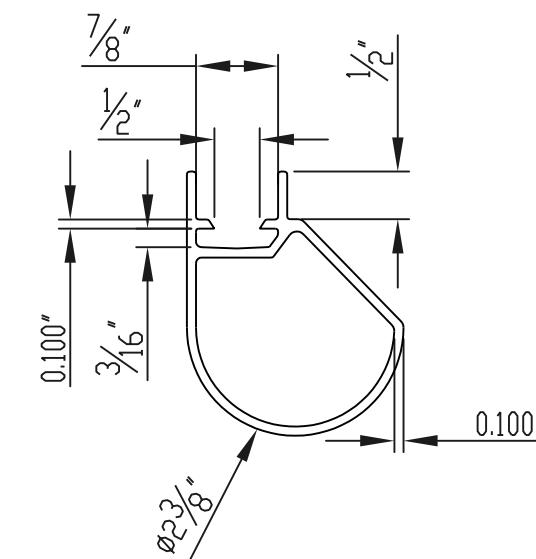
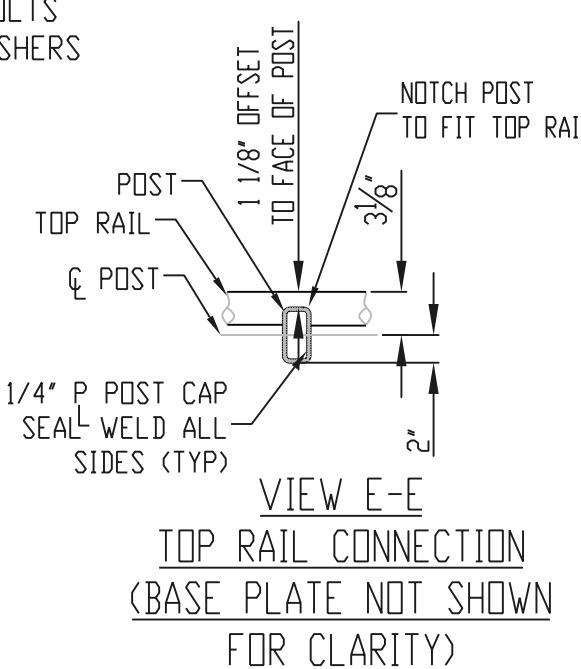
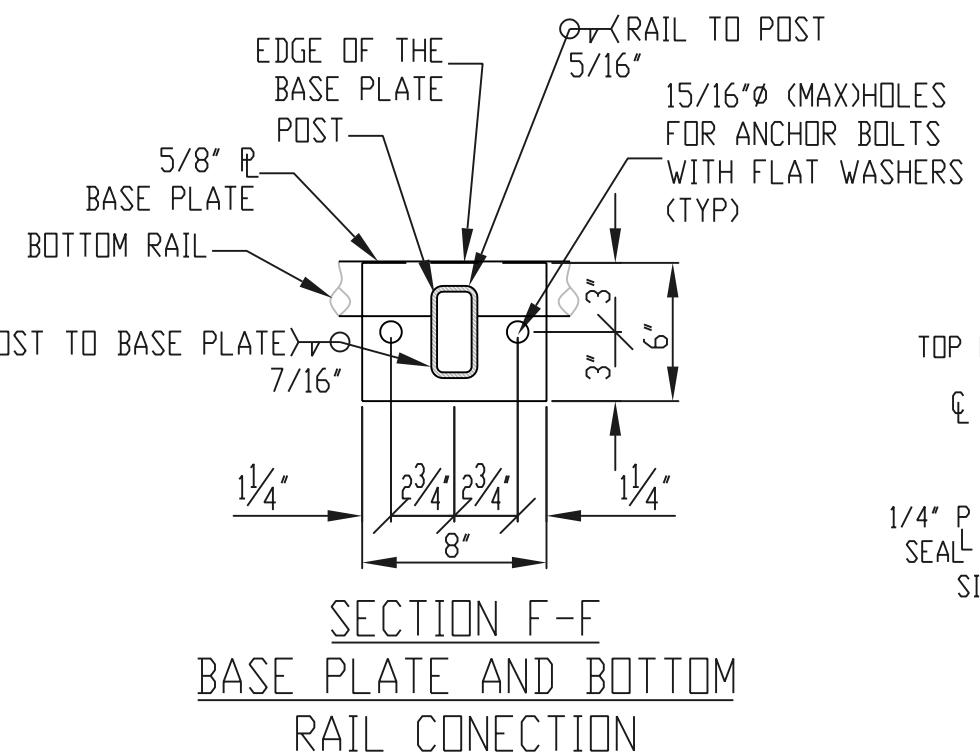
AIRALT ENTERPRISES, INC.
12260 S.W. 94th Street, Miami, FL 33186
(305) 234-6663



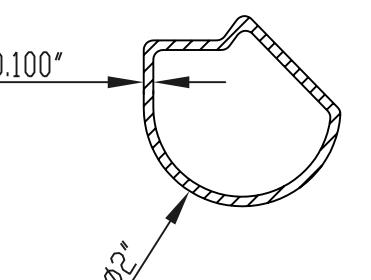
SPACER EXTRUSION



DETAIL "A"



RAIL EXTRUSION



SPLICE EXTRUSION

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RAILING MEMBER DIMENSIONS				
MEMBER	DESIGNATION	OUTSIDE DIMENSION	WALL THICKNESS	
POST	2x4" RECTANGULAR TUBE (WITH OR WITHOUT RADIUS EDGES)	2.00"x4.00"	0.250"	
RAILS	RAIL EXT.	2.375"	0.100"	
JOINT/SPlice SLEEVES	SPLICE EXTRUSION	2.000"	0.100"	
PICKETS	7/8" SQUARE	0.875"	0.065"	

ANCHOR BOLT TABLE							
CASE	STRUCTURE TYPE	DIMENSIONS		ANCHOR LENGTH	ANCHOR SIZE	DATE: 04/30/02	
		"A" EDGE DIST.	"B" EDGE DIST.	"C" EMBEDMENT	C.I.P. HEX HEAD BOLT	ADHESIVE ANCHOR	CHECKED BY: PPG
I	UNREINFORCED CONCRETE	6"	1'-2"	9"	10 1/2"	11"	APPROVED BY: PPG
IIA	REINFORCED CONCRETE	4"	4"	9"	10 1/2"	11"	FOR: GEI02-07
IIB	ROADWAY INDEX N° 520 GRAVITY WALL	4 1/2"	3 1/2" @ TOP	1'-0"	1'-1 1/2"	1'-2"	DRAWING NO: GEI02-07

REVISIONS

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1	07/22/02	PPG				SCALE: NTS
2	08/20/03	PPG				SHEET 2 OF 2
3	09/03/03	PPG				DRAWING NO: GEI02-07
4	11/10/04	PPG				
5	1/25/07	PPG				
6						

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QPL INDEX NO. DI 860-001

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