



INSTALLATION INSTRUCTIONS

FOR CUSTOM RAIL

PLEASE READ CAREFULLY

Custom Rail Installation Instructions

**** READ ALL DIRECTIONS BEFORE INSTALLING ****

Installing RBP's Rail system is easy. Following a few details carefully will give you excellent installation of the finest rail system available.

Equipment needed: Chop saw (50 or more teeth needed on blade) or
 Electric hand saw (40 or more teeth on blade)
CHOP SAW IS BEST!!
GOGGLES or full face shield
 Measuring equipment
 Masking tape
 Ratchet with 1/2" socket
 5/32 inch drill bit
 Phillips Screw Driver
 Long Sleeve Shirt
 Gloves

Cutting Chart A

Give rail components ample time to get to temperature of surroundings then at this temperature cut these components this much shorter than distance between points:

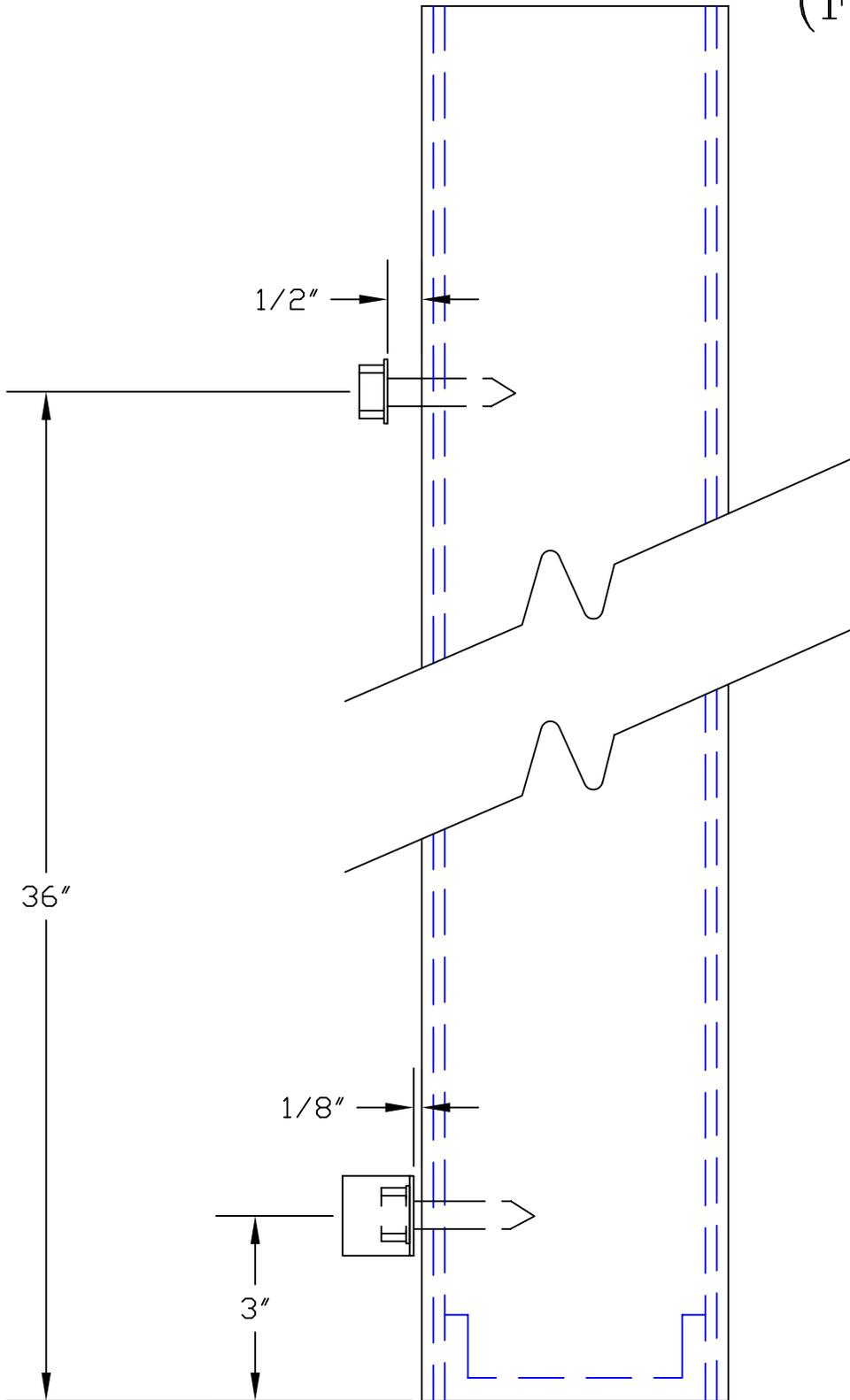
110 Degrees	80 Degrees	50 Degrees	32 Degrees	0 Degrees
Top Vinyl 5/16	3/8	7/16	1/2	9/16
Top Aluminum "H" Rail 3/4	3/4	3/4	3/4	3/4
Bottom Vinyl Aluminum Assembly 5/16	3/8	3/8	7/16	9/16

SEE RAIL DIAGRAM FOR PARTS DESCRIPTION PG. 5

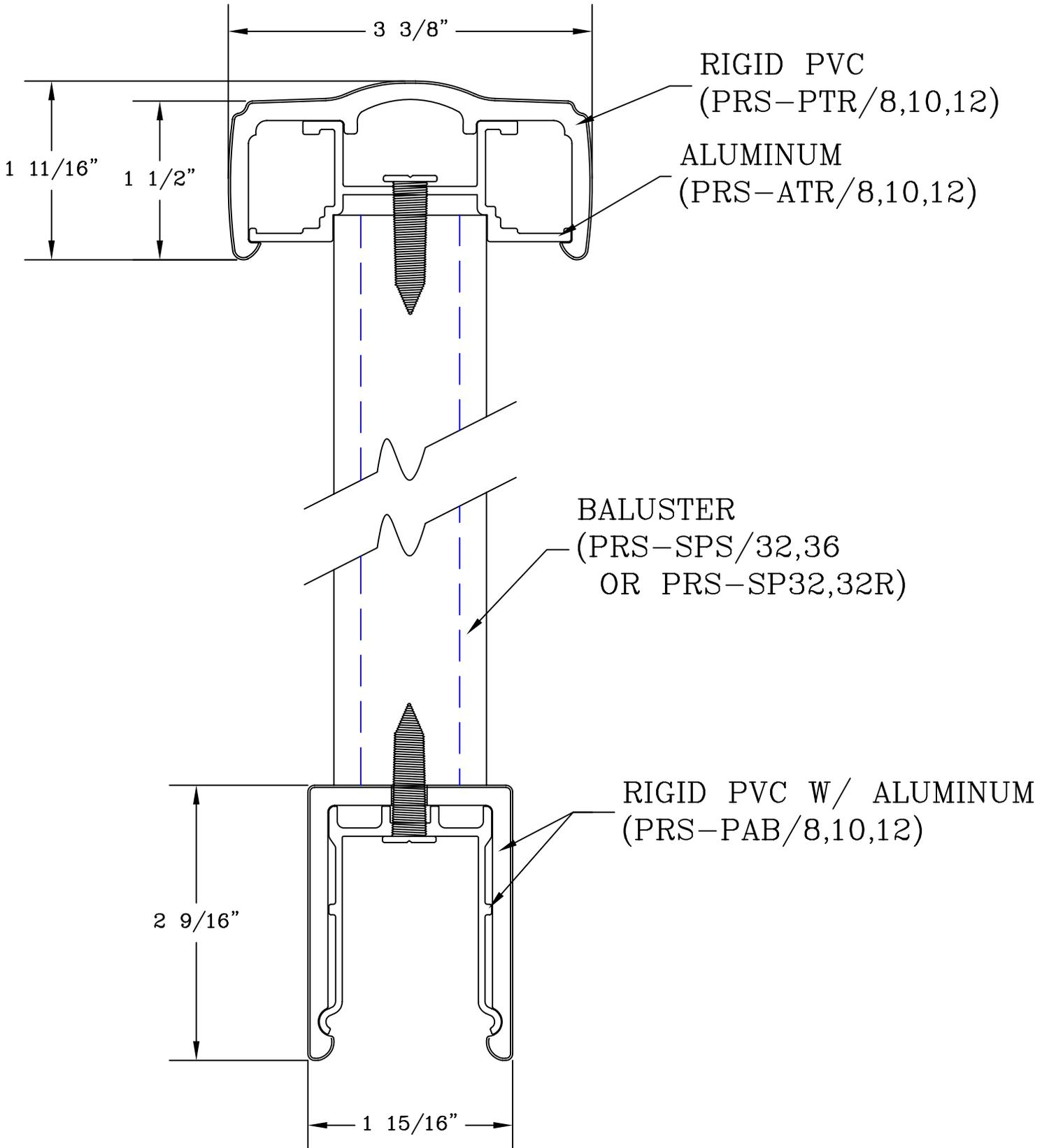
1. Carefully measure distance between posts and cut per cutting chart (See cutting chart Pg.2) Wear goggles or face shield, long sleeve shirt and gloves when cutting aluminum. The sawdust is hard and needle sharp. Keep others away from cutting area as sawed particles can fly a great distance.
2. Aluminum saws quite nicely and does not harm carbide blades. Masking tape applied to cutting area helps keep vinyl from chipping. **SAW GENTLY!**
3. When shortening rails, it is best to locate center of top and bottom rails and measure to both ends from there so as to have equal baluster spacing at each end. Sometimes an equal space at each end may not be possible but won't be very noticeable.
4. After cutting, locate height of bolts on post. Hole for bottom rail bracket screw should be located three inches above floor. Hole for top bracket screw should be located 36" above floor. These pilot holes are both ¼". Their location can vary but the space under the bottom rail cannot exceed 2" by code.
5. Insert 5/16" X 2" stainless lag screw, with 2 washers and guide lock bushing, into top hole and tighten until there is a space of ½" between bushing and post. (SEE FIGURE B)
6. Next, place another 5/16" X 2" stainless screw and washer through the bottom bracket and screw into post until there is 1/8" between bracket and post (SEE FIGURE B). An easy way to gauge this is to use the bottom cuff as a spacer and tightening until cuff can barely be removed. This gives exact spacing.
7. Push the top bracket firmly & completely into the channel on the top side of the aluminum top rail. Fasten bracket to each end of the rail using #8 x 1/2 Tek Screws (Tek screws **DO NOT** need a pilot hole). Install screws into approximate center of bracket slot.
8. Pick up entire rail and slide over top lag screw and bottom bracket. (SEE FIGURE C, PG. 5)
9. Tap PVC top rail onto top aluminum extrusion (SEE FIGURE C, PG. 5)
10. Tap top and bottom cuff between rail and post. (SEE FIGURE C, PG. 5)
11. Tighten top lag screw.
12. Included with each kit is a 4 3/16" block of cellular PVC to be used as a support in the center of the finished rail. While this was not used in testing and is not required by code, it is a good common sense application which adds enormous strength to the rail system. PVC is simply cut to length, put inside the center of bottom rail and fastened with two white screws.

CUSTOM RAIL POST CROSS SECTION

(FIG.B)

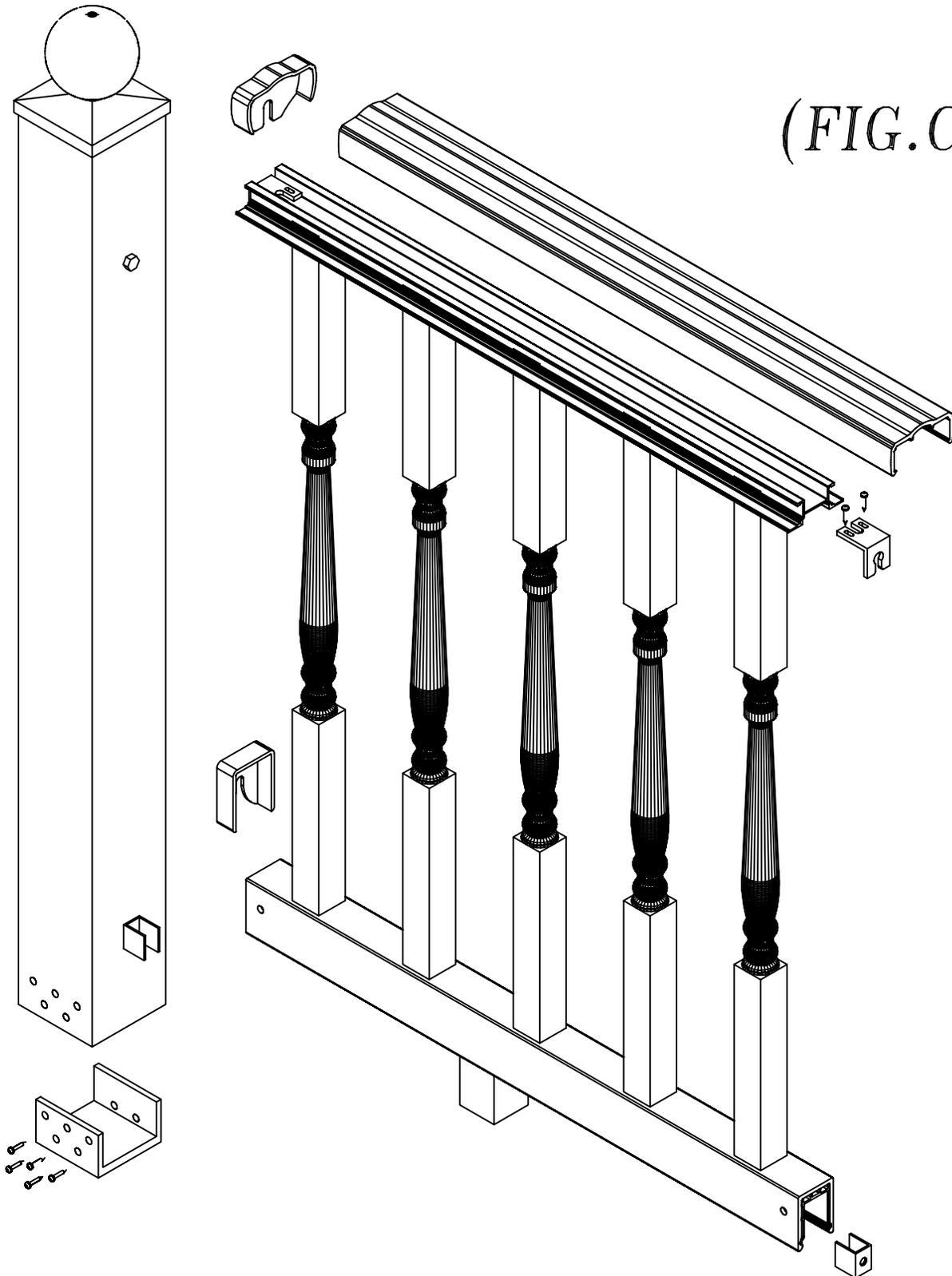


CUSTOM RAIL CROSS SECTION



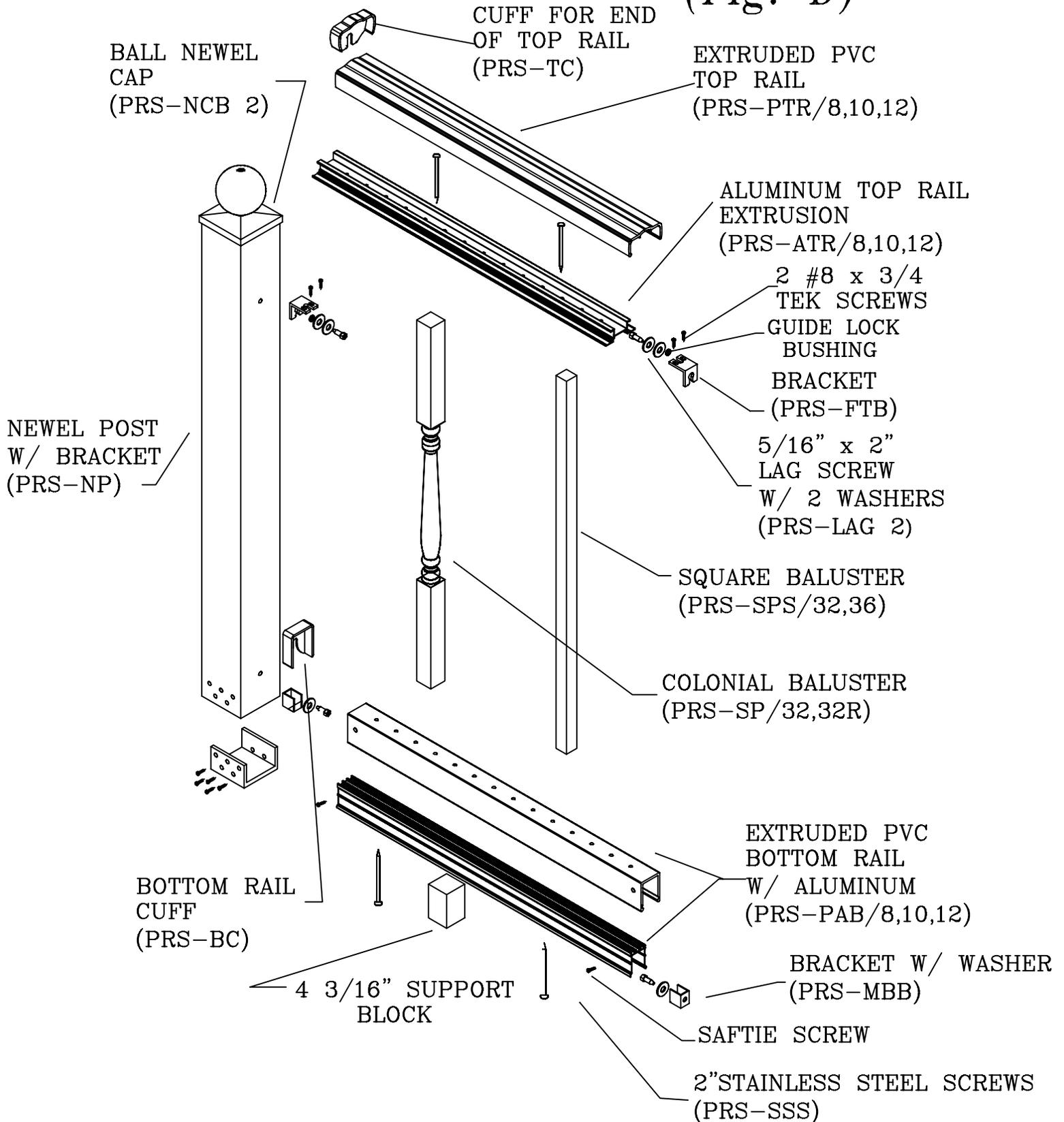
CUSTOM RAIL DETAIL

(FIG. C)

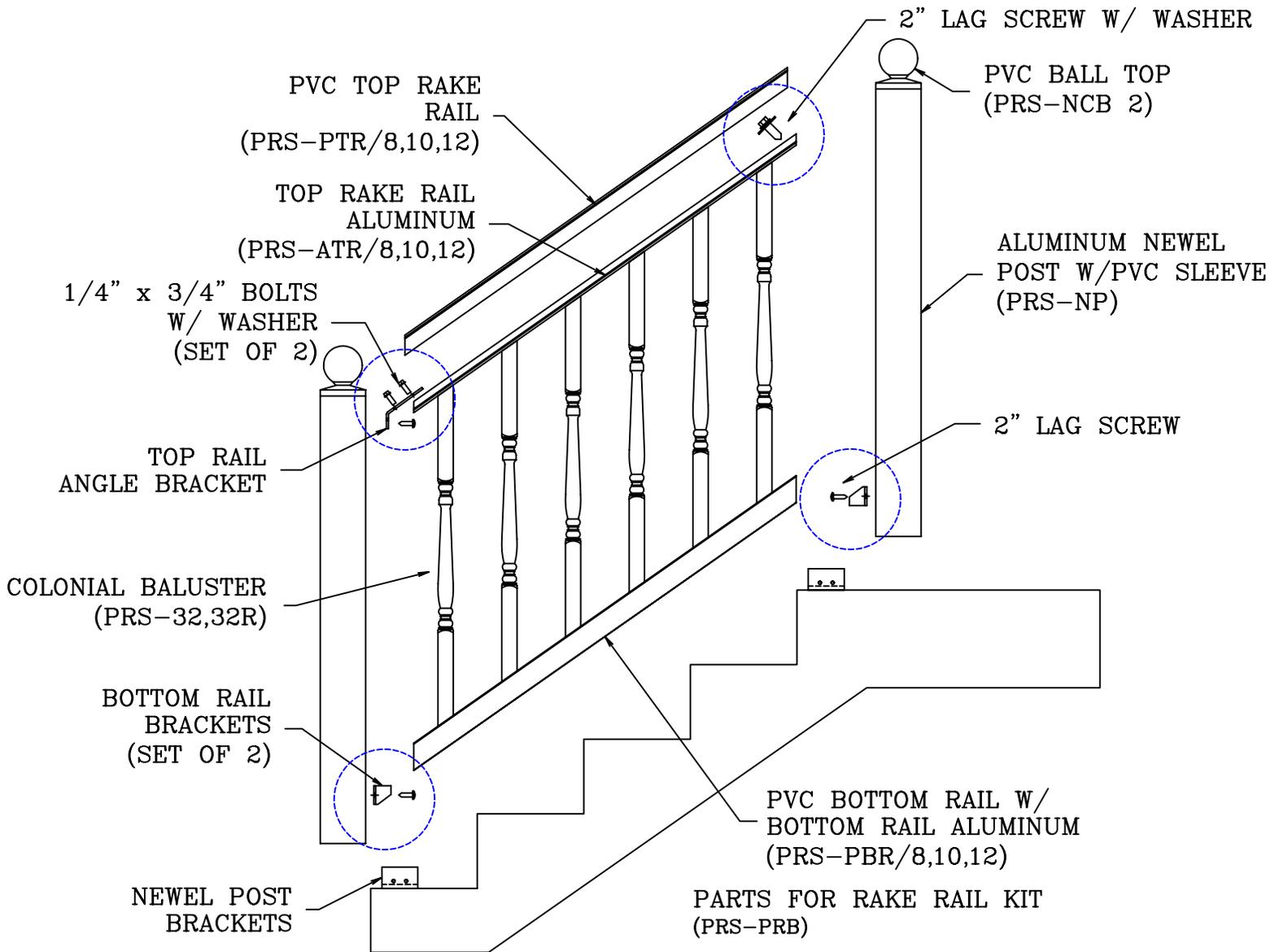


CUSTOM RAIL DIAGRAM

(Fig. D)



CUSTOM RAKE RAIL DIAGRAM



**PARTS FOR RAKE RAIL KIT
(PRS-PRB)**

- (4) 2" LAG SCREW
- (2) BOTTOM RAIL BRACKETS
- (1) TOP RAIL ANGLE BRACKET
- (2) 1/4" x 3/4" BOLTS W/ WASHERS