

#### Notes:

1. It is unwise to attempt to match the original holes because:
  - a. It is nearly impossible (and also unnecessary) except for perhaps a single hole. Plug unused holes and drill/fill/redrill new holes.
  - b. The distance between attachment points (stanchions) can be greater with stainless tube. I.e., there are less holes than with the wooden grab rails.
2. The bases are stainless discs with a nut welded to the inside. Only a single hole is required for fastening each stanchion. I recommend threaded studs (available online at BoltDepot.com) and a cap nut below decks.
3. I used EPDM (neoprene would also work) washers instead of bedding and have not had any leaks at all since installation. This makes the handrails easily removable for painting.
4. The through-bolted stainless rails are stronger than wood and can be used as lashing points for deck cargo (e.g., a dinghy).
5. Optionally extend the rails to meet the splashguard. This makes sheeting the staysail easier if the staysail tracks are on the coach-house.

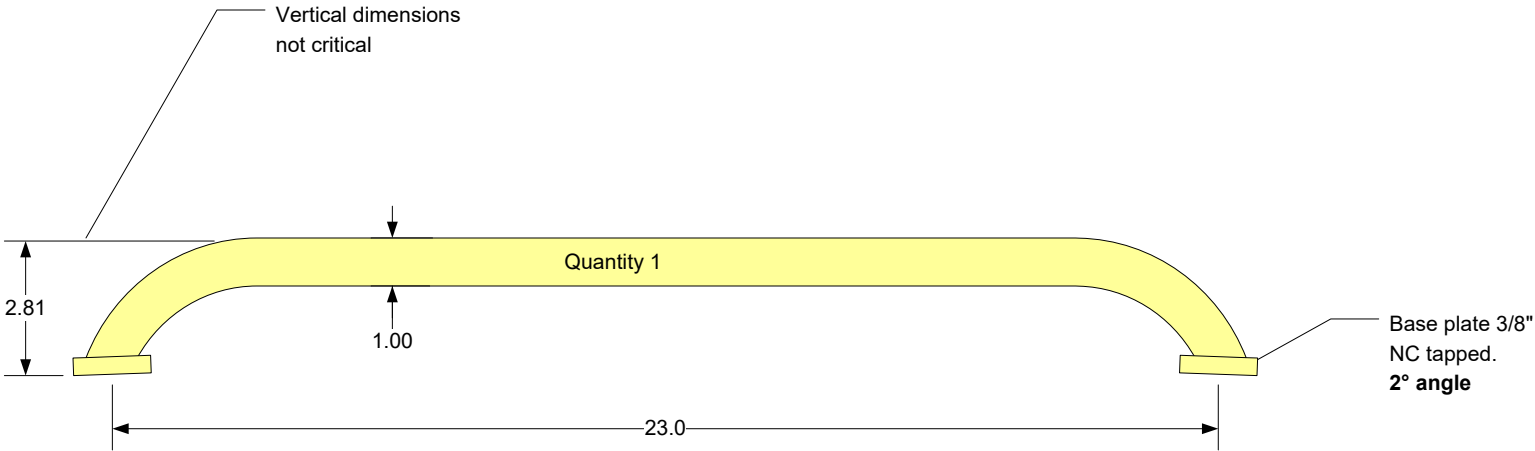
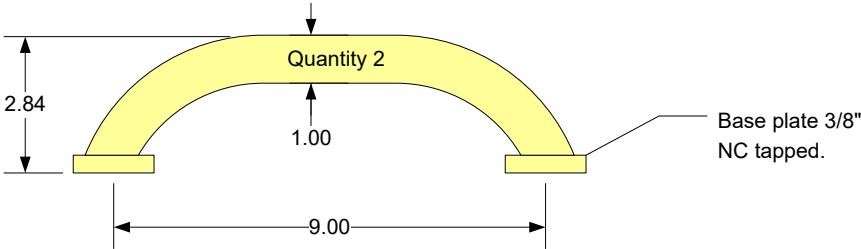
#### Installation Tips:

Work from one end and drill one hole at a time. Drill the first hole. Thread a stud into the end base and another stud into the next base, but further in so it doesn't project so far. With the first stud locked in the hole, position the rail and draw a pencil mark around the second stud. Drill a hole in the center of the pencil mark.\* Unscrew the second stud to the same projecting length as the first stud. Proceed to the third stud and do the same thing; drilling the holes one by one. Once all are done drill-and-fill with epoxy to create an epoxy plug through the deck and then re-do the process of locating and drilling the final holes. See [http://www.svbeatrix.com/ftp/Embedding\\_Hardware.pdf](http://www.svbeatrix.com/ftp/Embedding_Hardware.pdf)

\* To accurately drill through the deck make yourself a drill guide. I used a small block of 1-½" thick Starboard plastic which was carefully drilled (use a drill press if one is available) with the appropriate size hole. I have used this technique often and it works very well.

S/V BEATRIX - KELLY-PETERSON 44 #286 (1980)	TITLE Deck Fittings - Handrails	REV A	SCALE 1: 16	PAGE 1 OF 2	DATE 5/01/2022	DRAWN BY Jeff Stander
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Shipping Instructions to Follow  
Date Needed: ASAP



S/V BEATRIX - KELLY-PETERSON 44 #286 (1980)	TITLE Deck Fittings - Grab Rails for Dinghy-on-Deck Tie-down	REV	SCALE 1: 4	PAGE 2 OF 2	DATE 5/01/2022	DRAWN BY JSTANDER
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