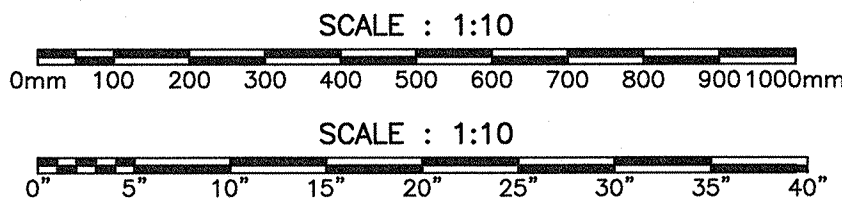
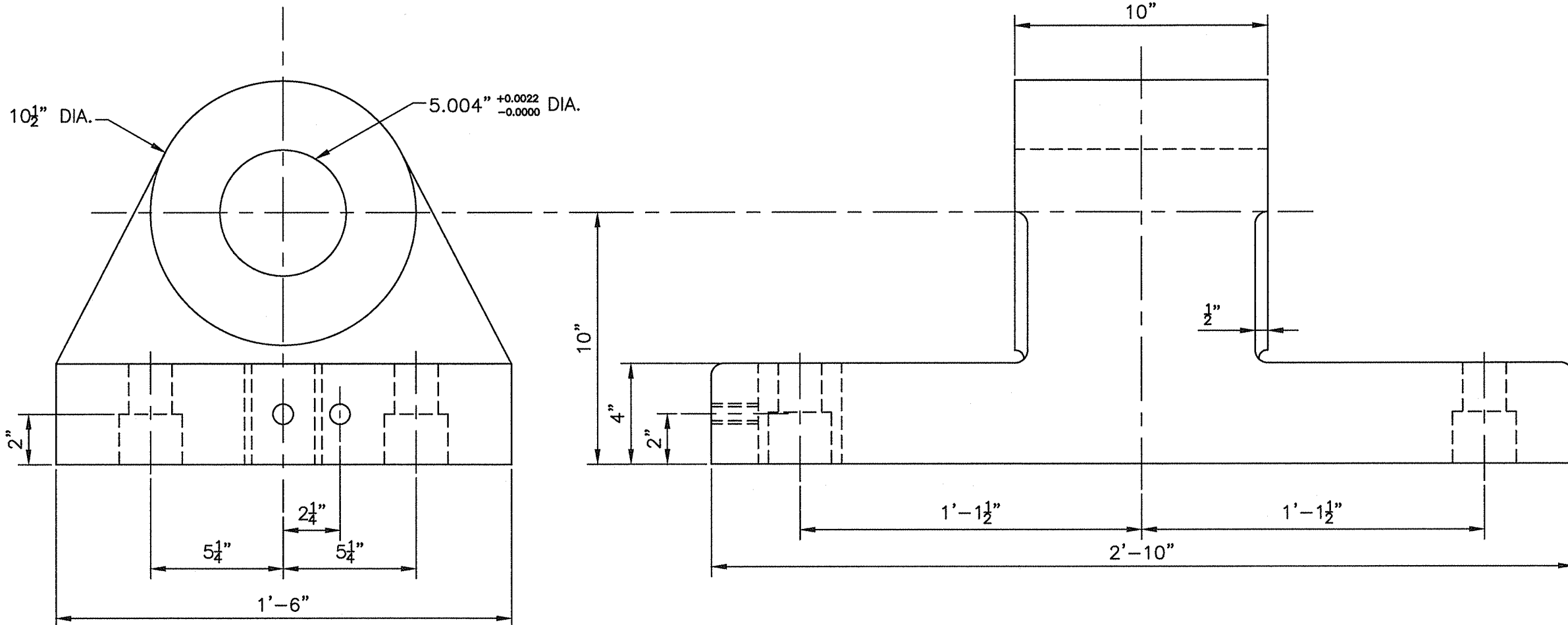


OPERATING STRUT CONNECTOR

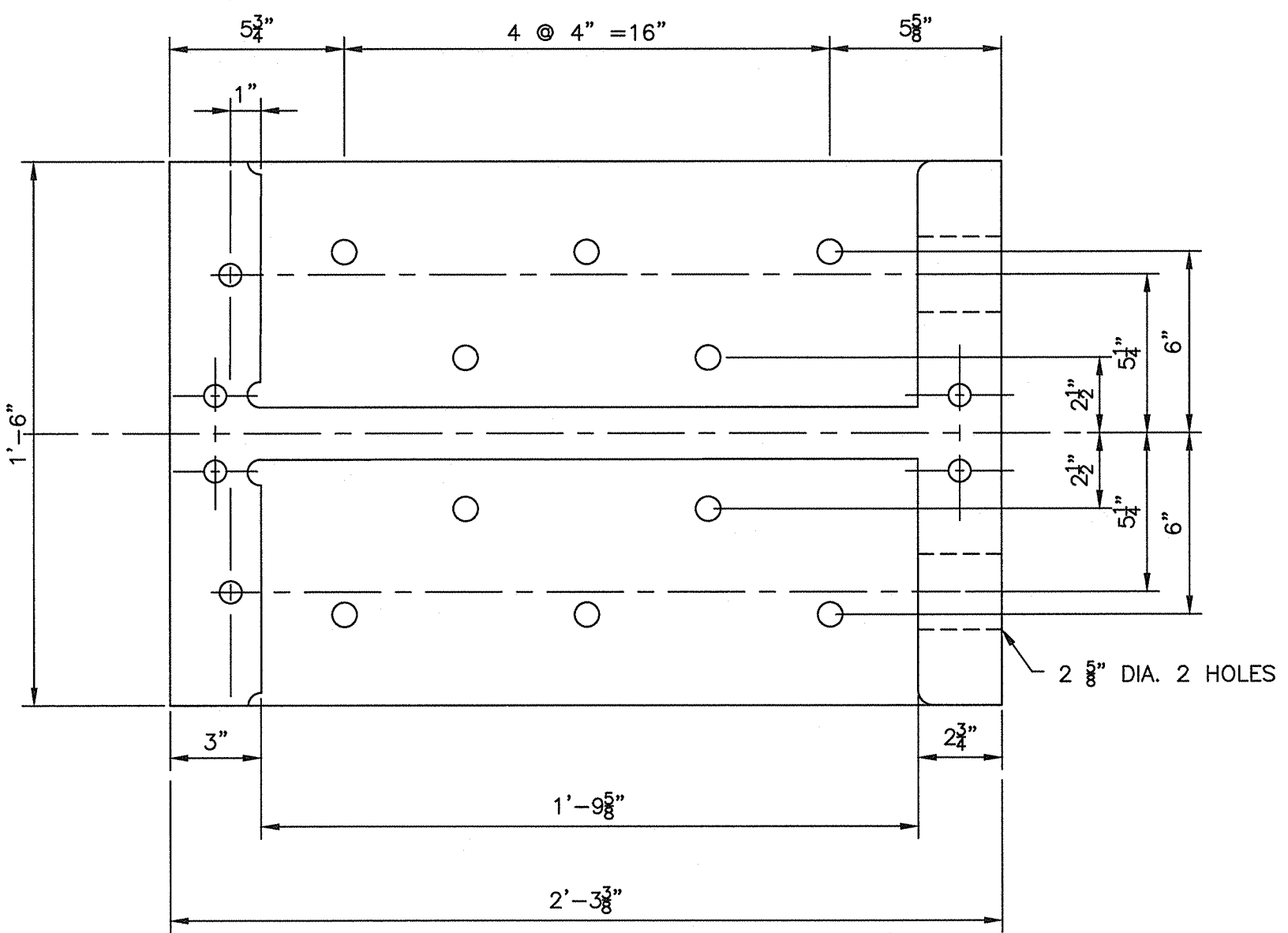
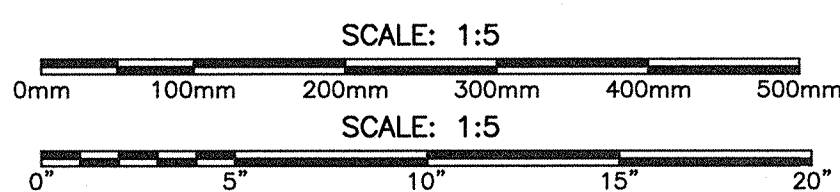


| MARK | NAME | MATERIAL | QUANTITY PER GATE | TOTAL QUANTITY | ACTION AT ALL GATES |
|------|-------------------------------|------------------------------------|-------------------|----------------|---------------------|
| ① | RACK CONNECTOR | STEEL CAST. ASTM-A148-52T GR 80-50 | 1 | 4 | REPLACE |
| ② | SPRING SUPPORT | STEEL CAST. ASTM-A148-52T GR 80-50 | 2 | 8 | REPLACE |
| ③ | STUD | SAE 3140 | 4 | 16 | REPLACE |
| ④ | SPRING RETAINER | SAE 3140 | 8 | 32 | REPLACE |
| ⑤ | SPRING | | 4 | 16 | REPLACE |
| ⑥ | SPACER | STEEL CAST. ASTM-A148-52T GR 80-50 | 4 | 16 | REPLACE |
| ⑦ | C.I. BUSHING FOR STUD | CAST IRON | 4 | 16 | REPLACE |
| ⑧ | GUIDE PIN (SAE3140) (63.5mmØ) | SAE 3140 | 2 | 8 | REPLACE |
| ⑨ | BRONZE BUSHING FOR GUIDE PIN | BRONZE | 2 | 8 | REPLACE |
| ⑩ | PIN FOR RACK CONNECTOR | SAE 3140 | 1 | 4 | REPLACE |

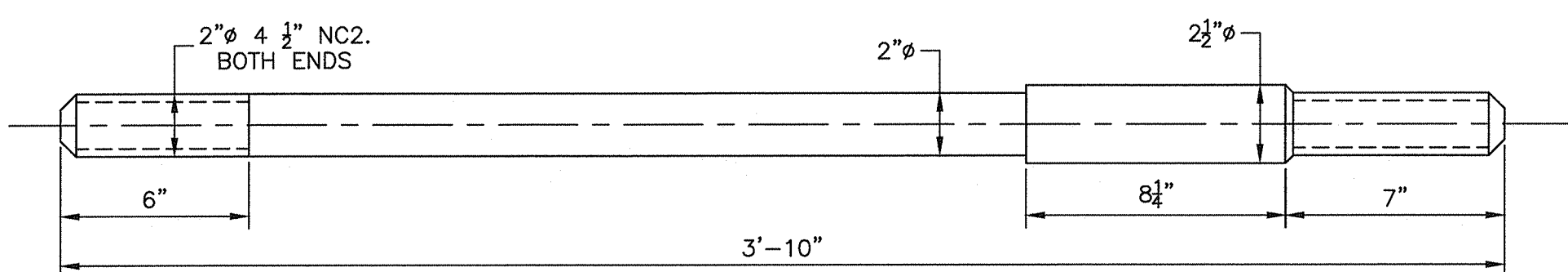
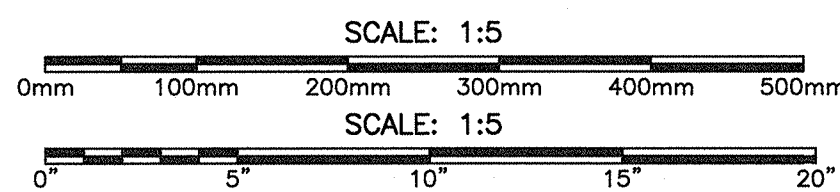
- NOTES:
1. REMOVE STRUT ARM, CLEAN/SANDBLAST, INSPECT FOR CRACKS AND OTHER DAMAGE, REPAINT WHERE REQUIRED, AND REINSTALL.
 2. INFORM DEPARTMENTAL REPRESENTATIVE OF ANY COMPONENT FOUND CRACKED OR DAMAGED.
 3. REPLACE ALL STRUT ARM, SPRING UNIT COMPONENTS.
 4. STRUT ARM AND SPRING UNIT COMPONENTS TO BE PAINTED TO MATCH EXISTING COLOUR.
 4. NOTE: ALL REQUIRED EQUIPMENT REMOVAL AND REINSTALLATION SHALL BE PERFORMED BY A QUALIFIED, EXPERIENCED MACHINIST.



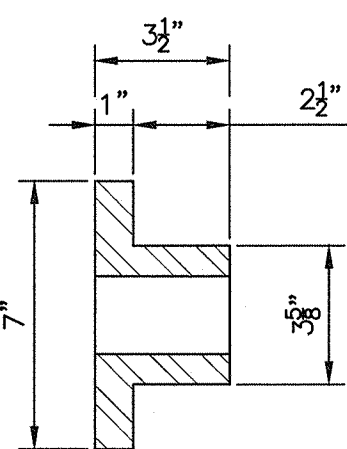
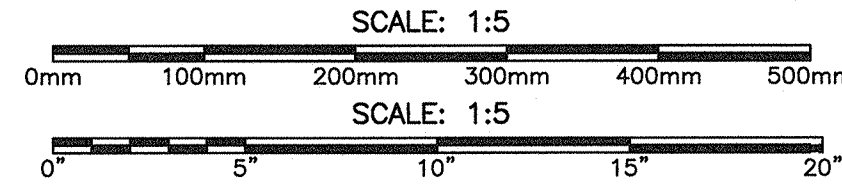
DETAIL 1 - RACK CONNECTOR



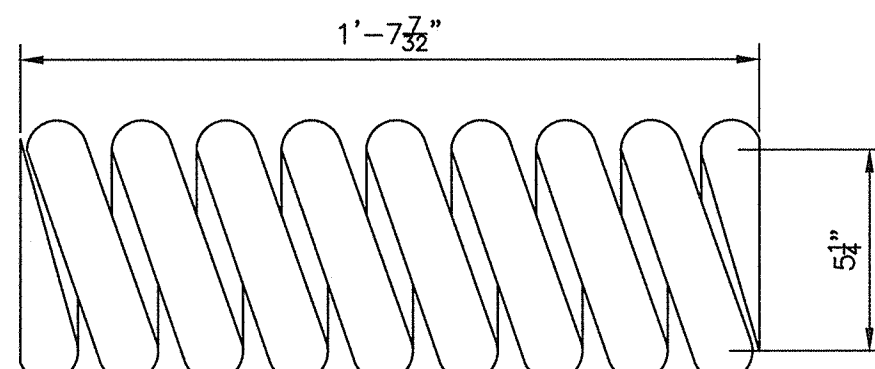
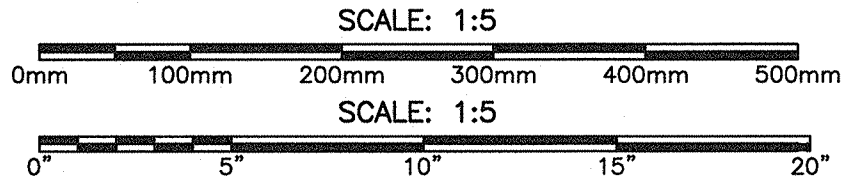
DETAIL 2 - SPRING SUPPORT



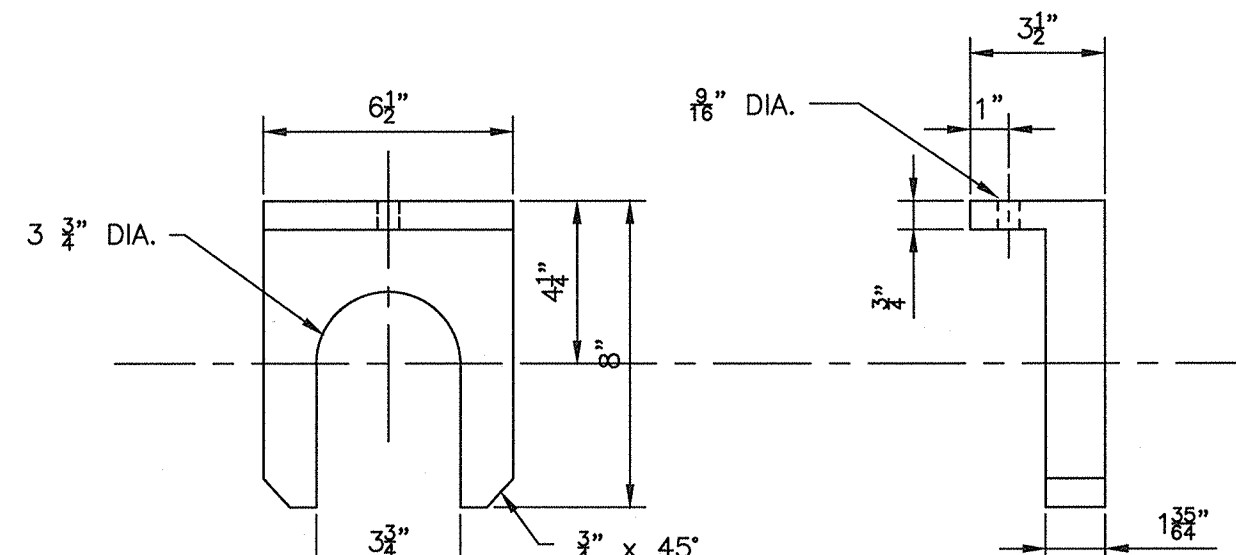
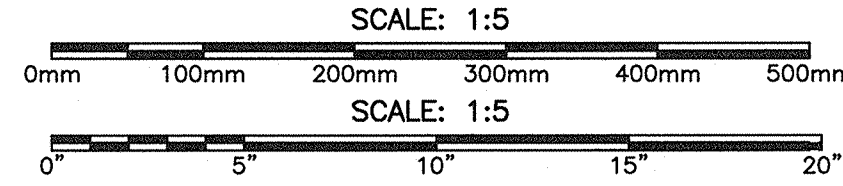
DETAIL 3 - STUD (FACED ALL OVER)



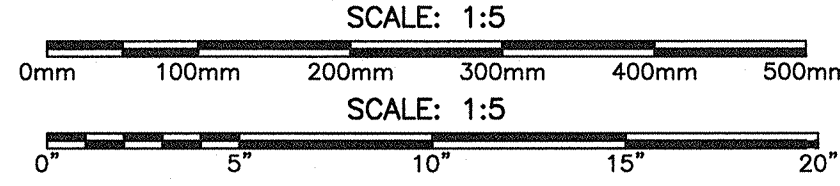
DETAIL 4 - SPRING RETAINER



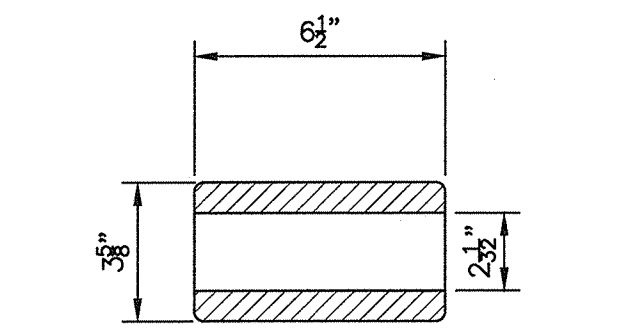
DETAIL 5 - SPRING



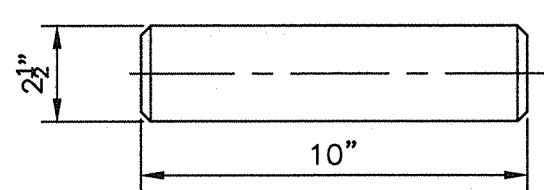
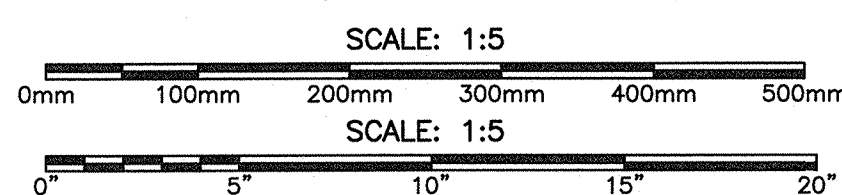
DETAIL 6 - SPACE (FACED ALL OVER)



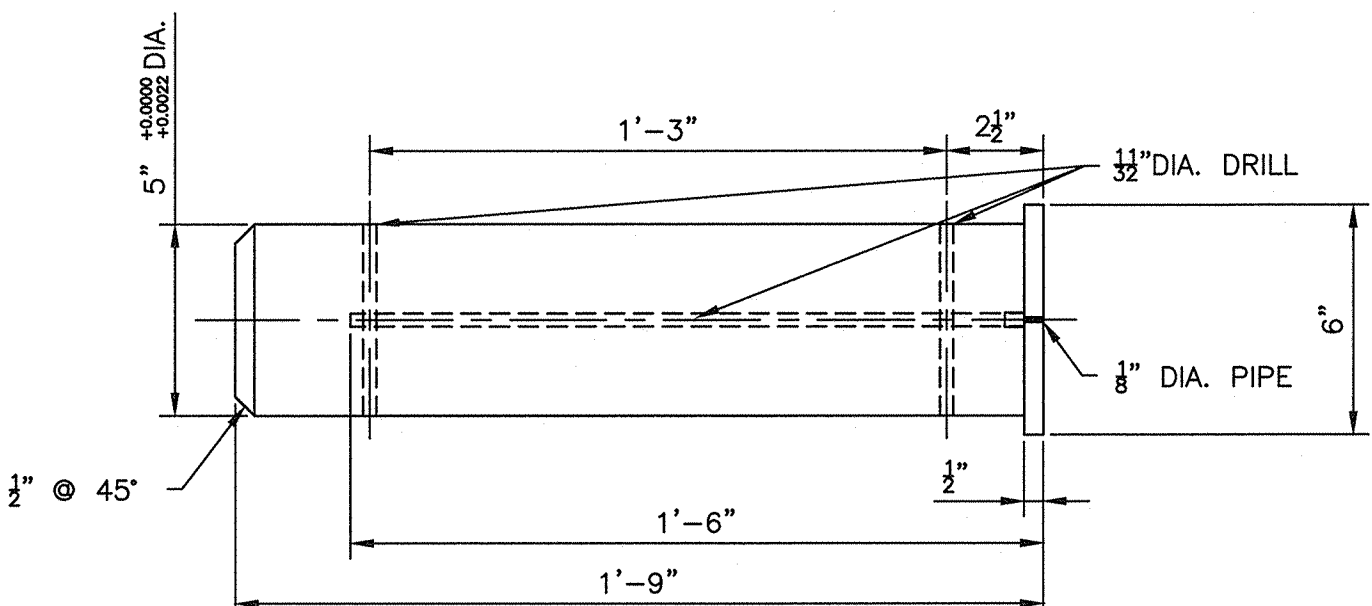
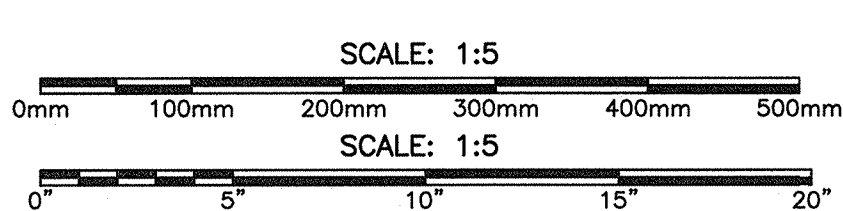
- 1 8/16" DIA. OF BAR.
5 1/4" PITCH DIA.
9 ACTIVE COILS.
1 7/8" PITCH.
19 3/16" FREE LENGTH.
16 3/16" SOLID LENGTH.
17250 MAXIMUM LOAD.



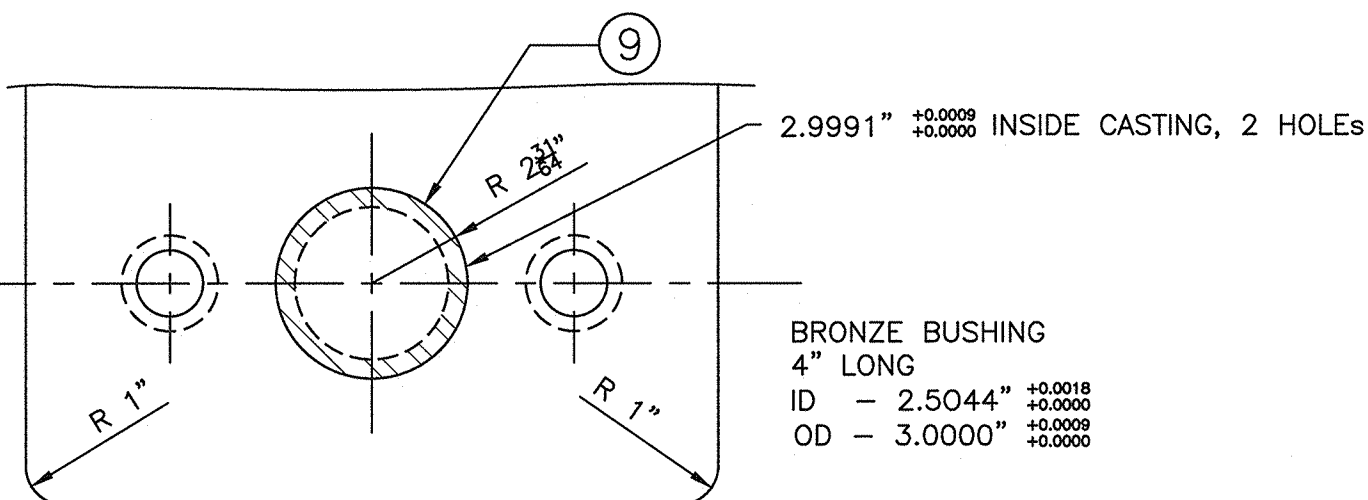
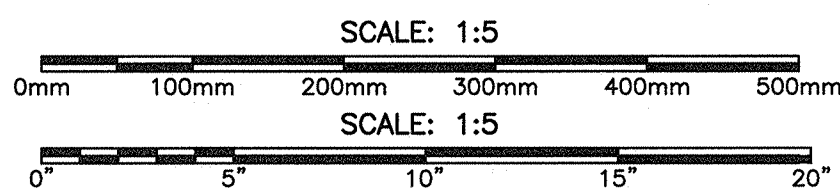
DETAIL 7 - C.I. BUSHING FOR STUD (FACED ALL OVER)



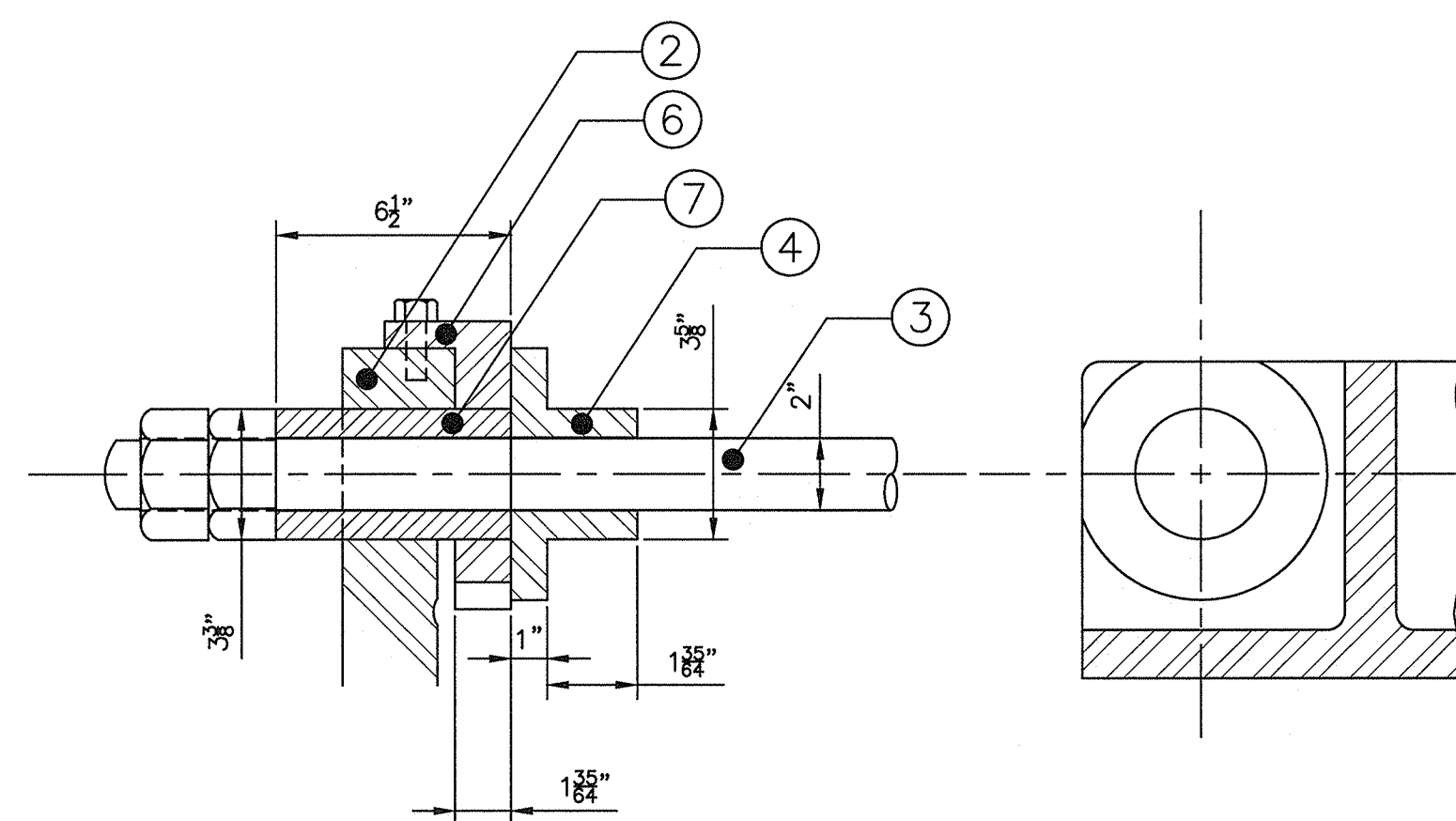
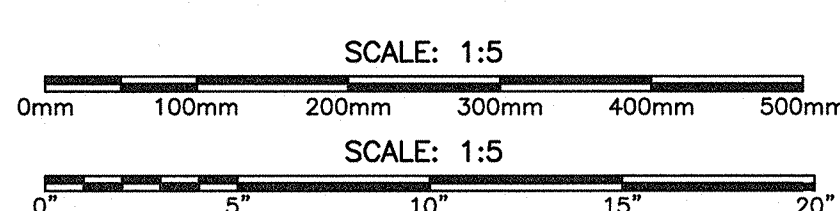
DETAIL 8 - GUIDE PIN



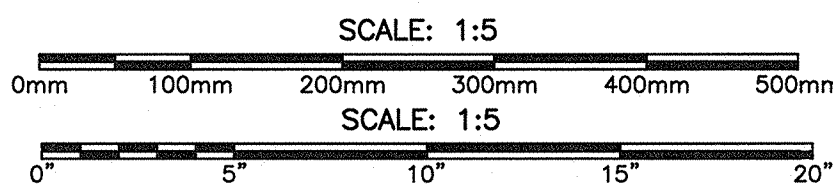
DETAIL 10 - PIN FOR RACK CONNECTOR



DETAIL 9 - BRONZE BUSHING



SECTIONAL DETAIL 11



OPERATING STRUT COMPONENT DETAILS

NOTES:
THE DETAILS SHOWN IN THIS DRAWING ARE BASED ON MARITIME STEEL AND FOUNDRIES LTD. SHOP DRAWINGS 1387-3, 1387-4, 1387-7 DATED APRIL 3, 1954, AND PWSC RECORD DRAWING NO. 74, CONSTRUCTION OF LOCK GATES - OPERATING MACHINERY & STRUT, DATED MARCH 29, 1956.