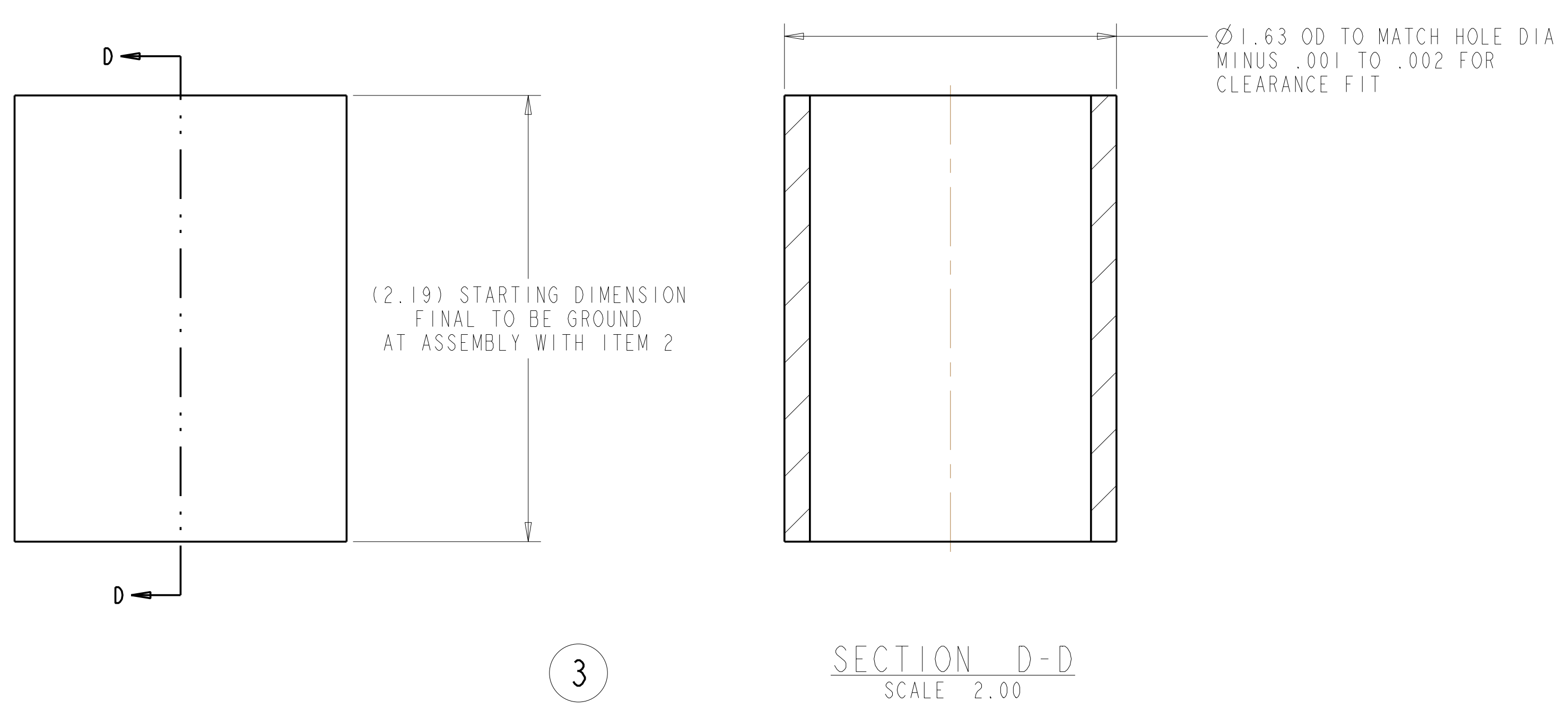
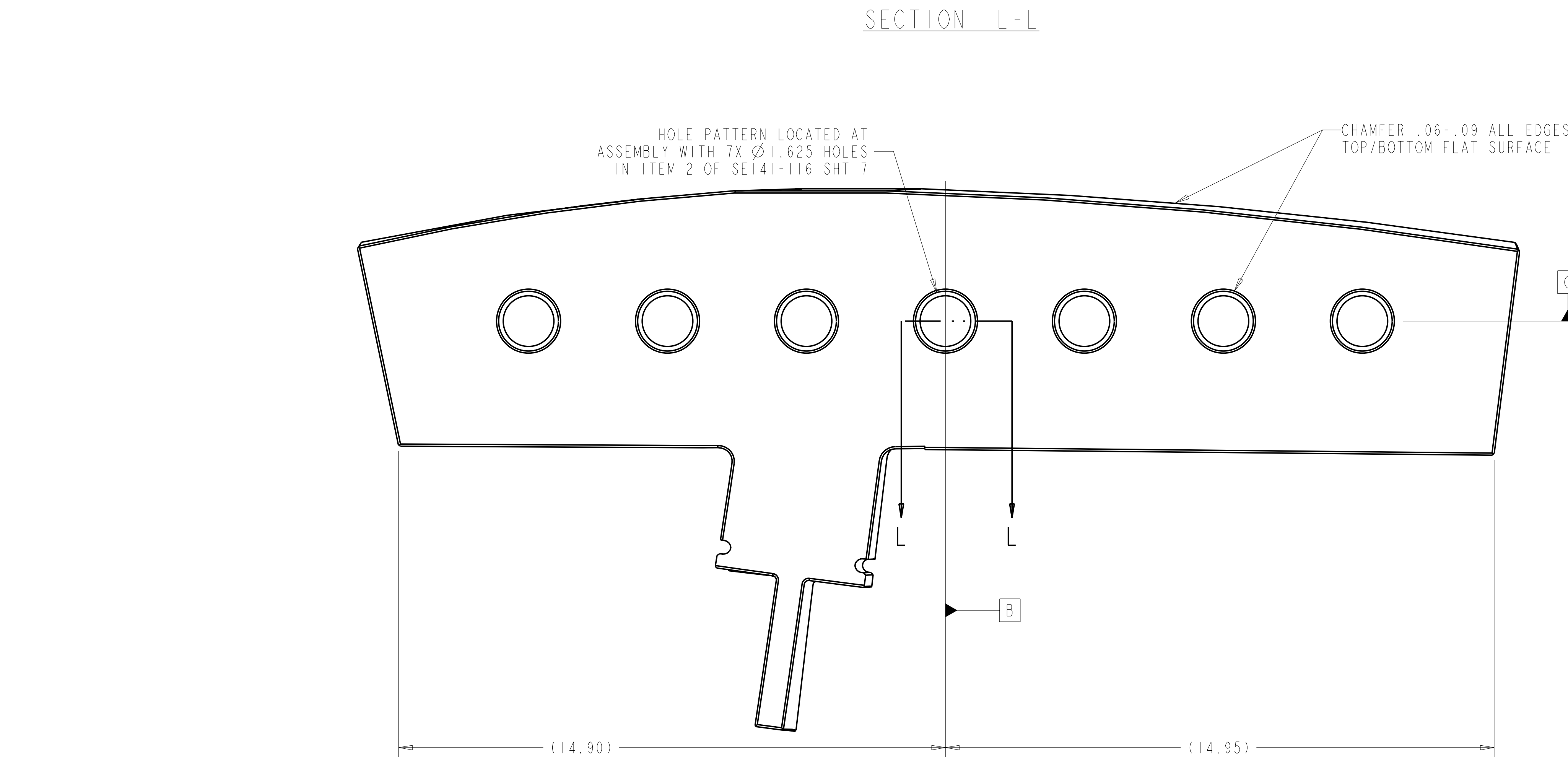
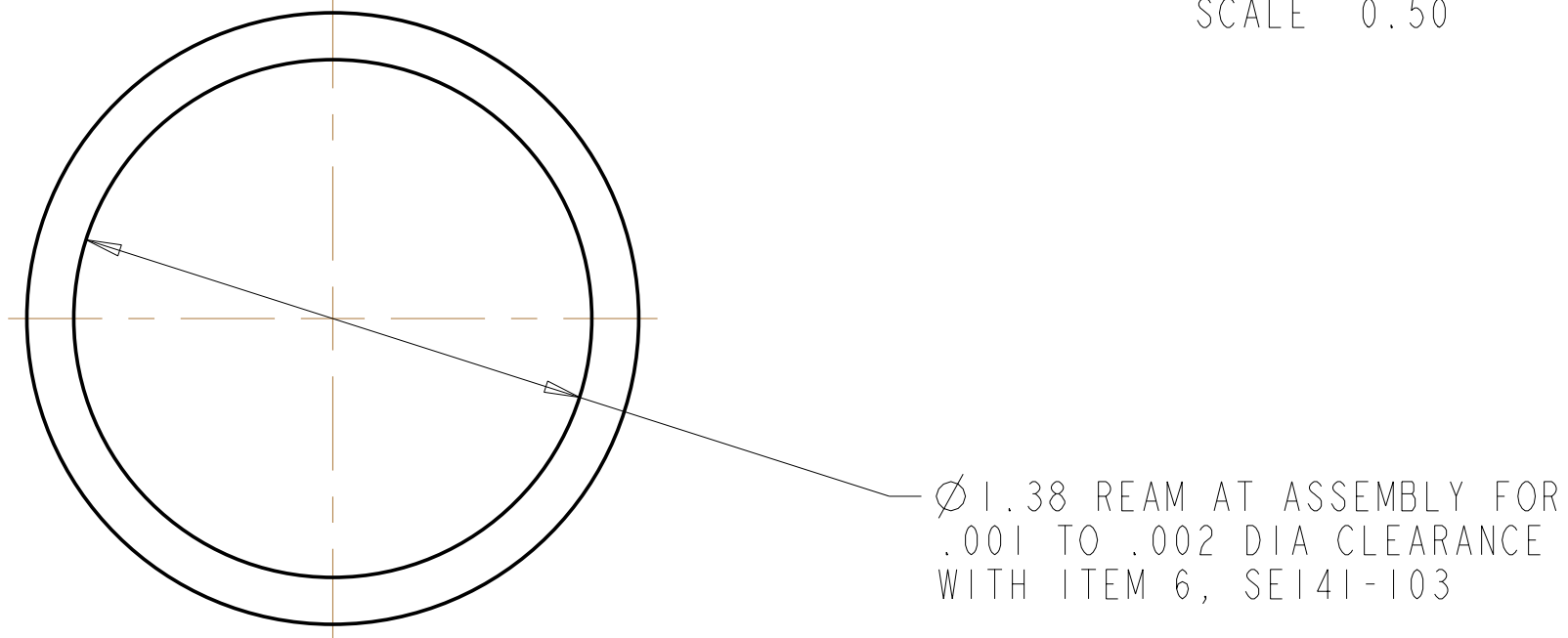
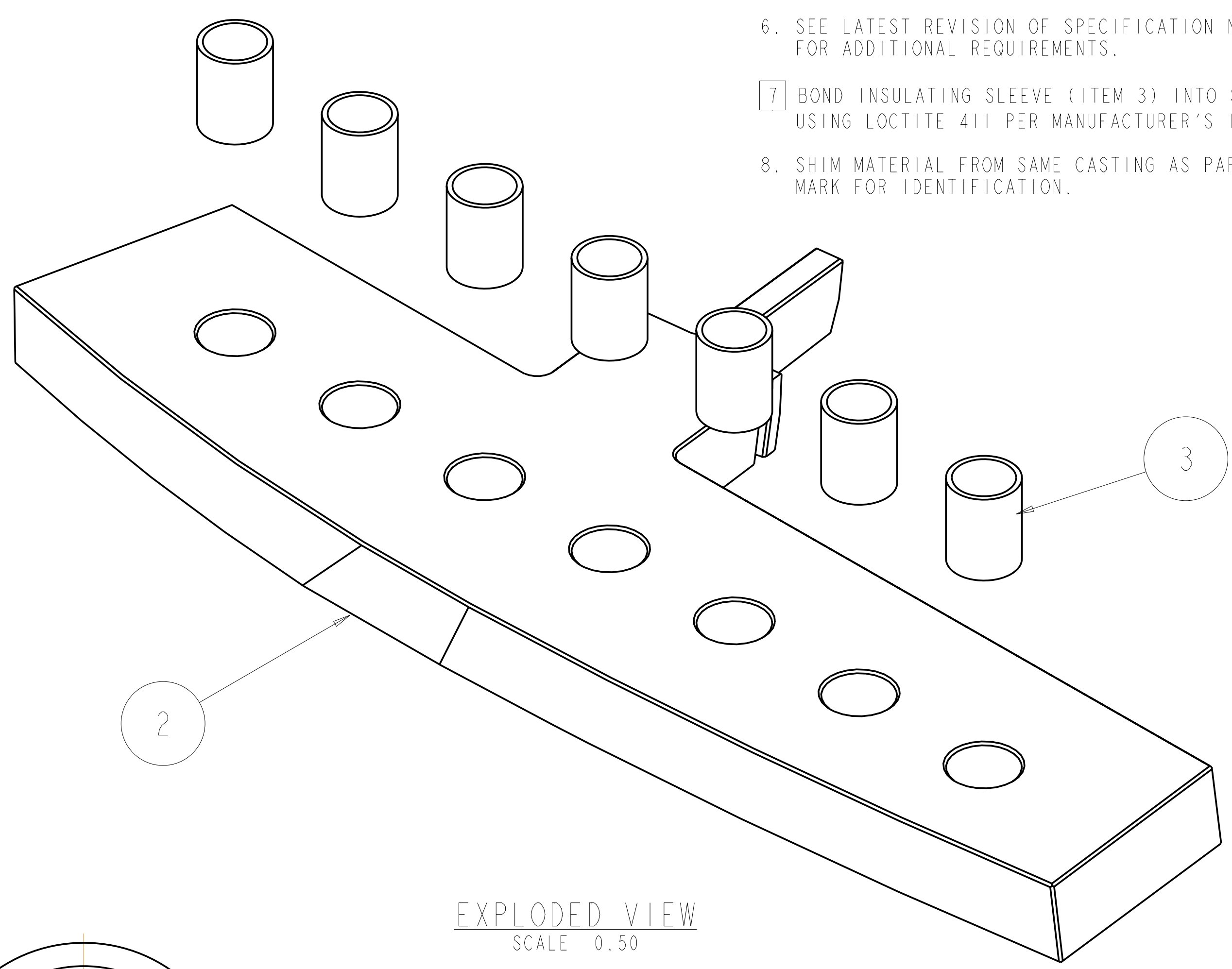
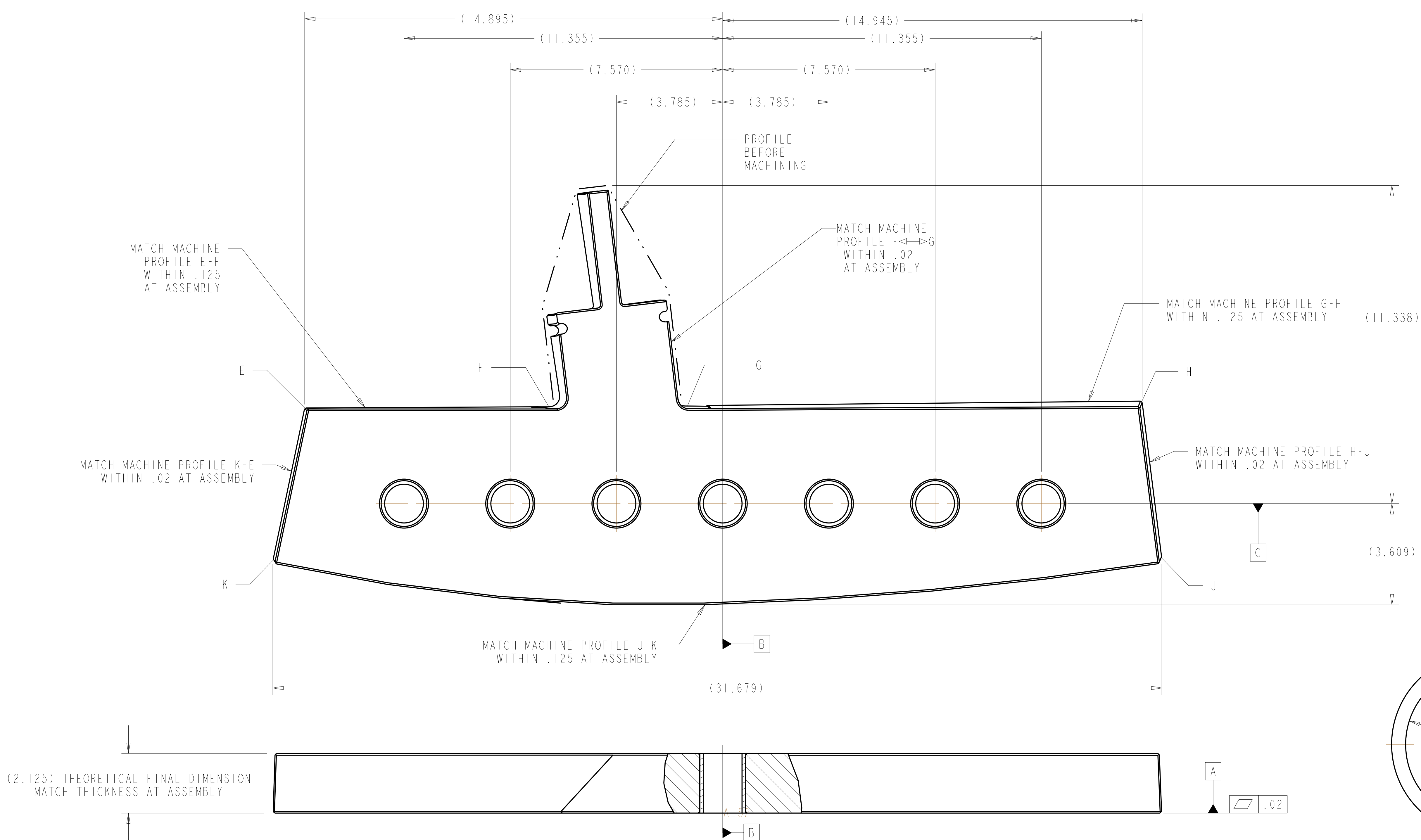


- NOTES:
1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
 2. DIMENSIONS ARE IN INCHES.
 3. DIMENSIONS APPLY AT TEMPERATURE OF 20-30°C (68-86°F).
 4. DRAWING DEPICTS FINAL MACHINED STATE OF ASSEMBLY DEFINED BY PRO/ENGINEER FILE SE141-078.ASM.
 5. APPROXIMATE WEIGHT = 129 LBS.
 6. SEE LATEST REVISION OF SPECIFICATION NCSX-CSPEC-141-03 FOR ADDITIONAL REQUIREMENTS.
 - 7 BOND INSULATING SLEEVE (ITEM 3) INTO SHIM (ITEM 2) USING LOCTITE 411 PER MANUFACTURER'S INSTRUCTIONS.
 8. SHIM MATERIAL FROM SAME CASTING AS PART SE141-116. MARK FOR IDENTIFICATION.



RELEASED FOR FABRICATION / INSTALLATION
 PPPL Drafting:

| REV | DESCRIPTION | BY | DATE | CHK | DEPT | PE | REG | DATE | ORNL | DOE | DATE |
|-----|----------------------------------|-----|-------|-----|------|-----|-----|------|------|-----|------|
| 2 | ADD EDGE CHAMFER PER ECN-5026 | GLL | 10-05 | MJC | | DEW | | | | | |
| 1 | REVISED "T" PROFILE PER ECN-4903 | GLL | 8/04 | MJC | | DEW | | | | | |

| 7 | -3 | SHIM INSULATING SLEEVE ALL TYPES | GIICR | NEMA LI 1 - 1998 | 3 |
|-----------|----|----------------------------------|--------------------------------|------------------|---|
| I | -2 | POLOIDAL BREAK SHIM TYPE-C | NOTE 8 | -- | 2 |
| AR | X | -1 | POL BREAK SHIM ASSEMBLY TYPE-C | | |
| SE141-103 | | | | | |

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P THIS DRAWING PRODUCED ON PRO-ENGINEER

| REV | DESCRIPTION | BY | DATE | CHK | DEPT | PE | REG | DATE | ORNL | DOE | DATE |
|-----|----------------------------------|-----|-------|-----|------|-----|-----|------|------|-----|------|
| 2 | ADD EDGE CHAMFER PER ECN-5026 | GLL | 10-05 | MJC | | DEW | | | | | |
| 1 | REVISED "T" PROFILE PER ECN-4903 | GLL | 8/04 | MJC | | DEW | | | | | |

| | | |
|--|--------------------|---------|
| SCALE NOTED | DES P MILLER | 6-30-04 |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | DRW P MILLER | 6-30-04 |
| FRACTIONS | CHK M COLE | 6-30-04 |
| XX DECIMALS ±.01 | DEPT : | |
| XXX DECIMALS ±.005 | PE D WILLIAMSON | 6-30-04 |
| ANGLES ±0°15' | CR : | |
| BREAK SHARP EDGES .06 MAX | PJ : | |
| FINISH .125 UNLESS OTHERWISE SPECIFIED | RED : | |
| | PPPL DRFT J SIEGEL | 6-30-04 |
| | | |
| | | |
| | | |

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|--|-------|--|----|
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| NATIONAL COMPACT STELLARATOR EXPERIMENT | | | |
| POL BREAK SHIM ASSEMBLY TYPE-C | | | |
| VERSION NO. | PLANT | BLDG | FL |
| 3 | X-10 | 5700 | 3 |
| RELEASE LEVEL | | | |
| Fabrication | | | |
| SE141-078 | | | |
| REV 2 | | | |