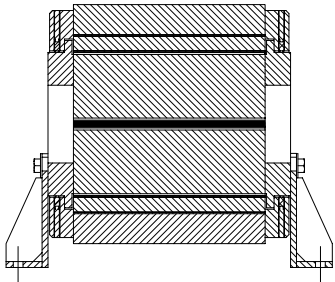
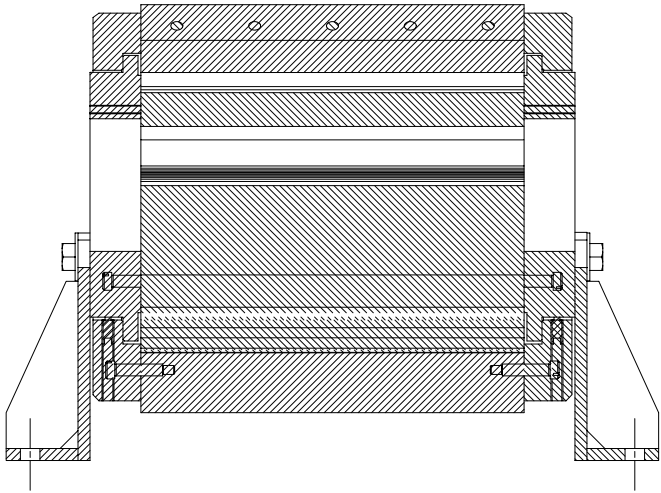


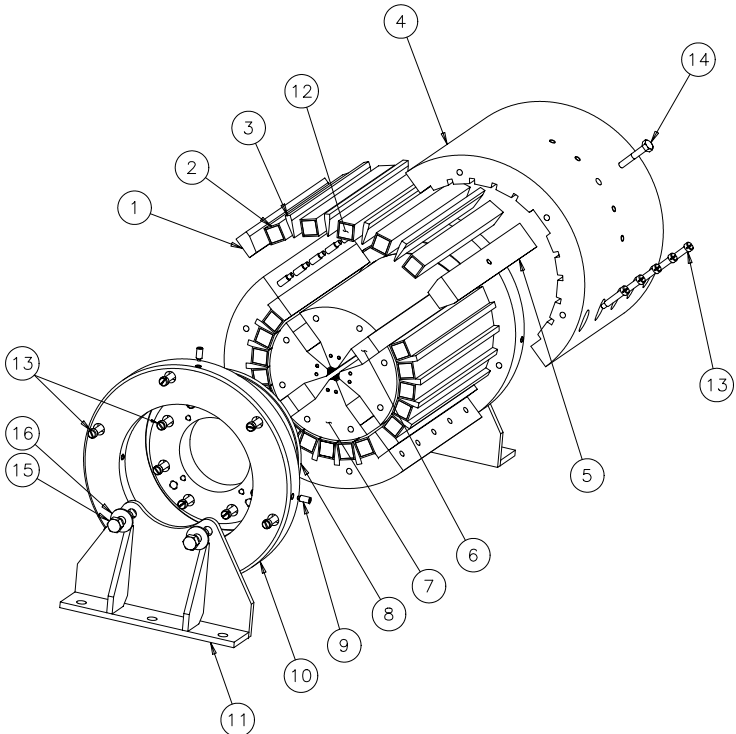
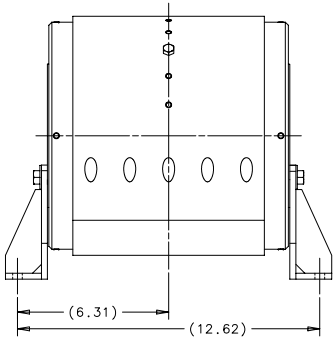
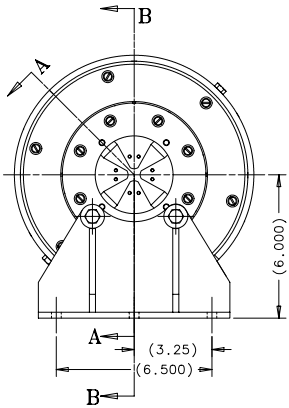
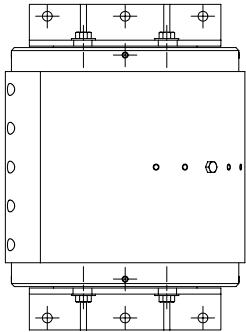
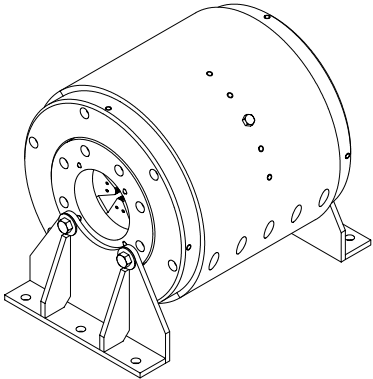
| REV. | DESCRIPTION | DATE | DATE |
|------|-------------|------|------|
|      | E.R. #7336  |      |      |



SECTION "B-B"



SECTION "A-A"  
SCALE: FULL



|                                                                                                   |                     |                                           |        |
|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------|--------|
| 16                                                                                                | McMASTER #SR370A021 | FLAT WASHER, 3/8 SS                       | 4      |
| 15                                                                                                | McMASTER #92240A626 | HHCS SCREW, 3/8-16 X 1 1/4 SS             | 4      |
| 14                                                                                                | McMASTER #92198A546 | HHCS SCREW, 1/4-20 X 1 1/2 SS             | 2      |
| 13                                                                                                | McMASTER #90298A542 | SHOULDER SCR, 1/4 DIA X 1 SS              | 38     |
| 12                                                                                                | MB-392183           | OUTER MAGNET SEGMENT                      | 20     |
| 11                                                                                                | MD-392182           | STAND WELDMENT ASSEMBLY                   | 2      |
| 10                                                                                                | MC-392181           | OUTER RING                                | 2      |
| 9                                                                                                 | McMASTER #90669A537 | SET SCREW, 1/4-20 X 1/2 SS BRASS - TIPPED | 8      |
| 8                                                                                                 | MC-392179           | INNER RING                                | 2      |
| 7                                                                                                 | MD-392178           | POLE                                      | 4      |
| 6                                                                                                 | MB-392177           | INNER MAGNET SEGMENT                      | 4      |
| 5                                                                                                 | MB-392176           | RING SEGMENT WEDGE - LARGE                | 2      |
| 4                                                                                                 | MD-392175           | STEEL FLUX RETURN                         | 2      |
| 3                                                                                                 | MB-392174           | RING SEGMENT WEDGE - SMALL                | 16     |
| 2                                                                                                 | MB-392173           | .75 X .75 X .063 BOX TUBING               | 20     |
| 1                                                                                                 | MB-392172           | RING SEGMENT WEDGE - HALF                 | 4      |
| ITEM                                                                                              | PART NO.            | DESCRIPTION OR SIZE                       | QTY.   |
| PARTS LIST                                                                                        |                     |                                           |        |
| UNLESS OTHERWISE SPECIFIED                                                                        | ORIGINATOR          | J. VOLK                                   |        |
| XX XXX ANGLES                                                                                     | DRAWN               | P. BELKO                                  | 8/5/02 |
| 1. MEAL ALL SHARP EDGES                                                                           | CHECKED             |                                           |        |
| 2. DO NOT SCALE DRAWING                                                                           | APPROVED            |                                           |        |
| 3. SURFACES FINISHES UPON                                                                         | USED ON             |                                           |        |
| 4. MAX. ALL WELD SURFACES                                                                         | MATERIAL            | SHOWN ABOVE                               |        |
| <div> <b>FERMI NATIONAL ACCELERATOR LABORATORY</b><br/> UNITED STATES DEPARTMENT OF ENERGY </div> |                     |                                           |        |
| <b>NLC ADJUSTABLE PERMANENT MAGNET QUAD</b><br><b>FRN45H ASSEMBLY</b><br><b>FINAL ASSEMBLY</b>    |                     |                                           |        |
| SCALE                                                                                             | FILED               | 5520-ME-392171                            | REV.   |
| 1/2                                                                                               |                     |                                           |        |
| CREATED WITH                                                                                      | 1-DEAS Bm4          | USER NAME:                                | dbelko |