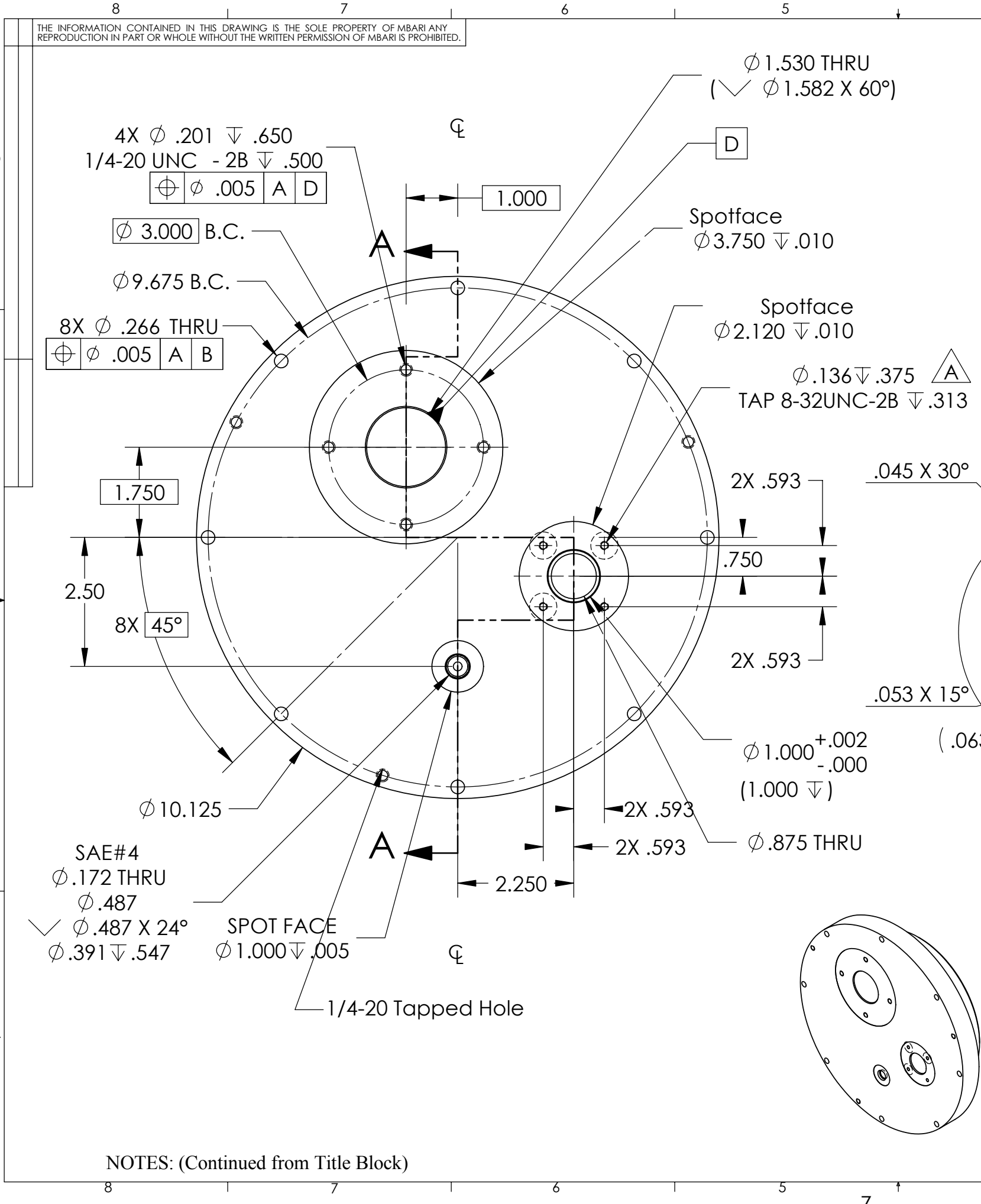




| REVISIONS       |                                           |           |          |
|-----------------|-------------------------------------------|-----------|----------|
| REV.            | DESCRIPTION                               | DATE      | APPROVED |
| INITIAL RELEASE |                                           |           |          |
| REV.            | DESCRIPTION                               | DATE      | APPROVED |
| A               | ADD TAP HOLE CALL-OUT (8-32UNC 4 PLACES)) | 3/28/2005 | J.E.     |

SECTION A-A  
SCALE 1 : 2.2

1.375

(.500)

( $\phi 1.530$ )

2X  $\phi 7.622^{+.000}_{-.001}$   
ORING #2-366

( $\phi .875$ )

( $\phi 1.000^{+.002}_{-.000}$ )  
(1.000  $\downarrow$ )

1.000

1.750

(2.50)

(1.000)

| 1                        | 1                | 1002214                                                                                                   | Interconnect plate    |                             | NiBrAl (C95500 HT)   |
|--------------------------|------------------|-----------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|----------------------|
| ITEM NO.                 | QTY.             | Part Number                                                                                               | DESCRIPTION           | VENDOR                      | MATERIAL             |
| <b>BILL OF MATERIALS</b> |                  |                                                                                                           |                       |                             |                      |
| Shop / Q.C.              |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                |                       | APPROVALS DATE              |                      |
| Inspector                |                  | 1 PLACE DIM $\pm 1/16$                                                                                    | 2 PLACE DIM $\pm .02$ | 3 PLACE DIM $\pm .005$      | ANGLES $\pm 1^\circ$ |
| Shop Foreman             |                  | 1. DIMENSIONS ARE IN INCHES                                                                               |                       | DRAWN J.ERICKSON 2/06/05    |                      |
| Engineer                 |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.                                                                   |                       | ENGINEER J.ERICKSON 2/06/05 |                      |
|                          |                  | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.                                                                 |                       | CHECKED F. S. 8/20/04       |                      |
|                          |                  | 4. MACHINED FILLET RADII .0150-.030.                                                                      |                       | PROJECT NO. 900213          |                      |
| NEXT ASSY Description    | NEXT ASSY Number | 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005                                       |                       | PROJECT ISMS                |                      |
|                          |                  | 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. |                       | WEIGHT 38.346 lb.           |                      |
| Application              |                  | DO NOT SCALE DRAWING                                                                                      |                       | SCALE 1:2                   |                      |

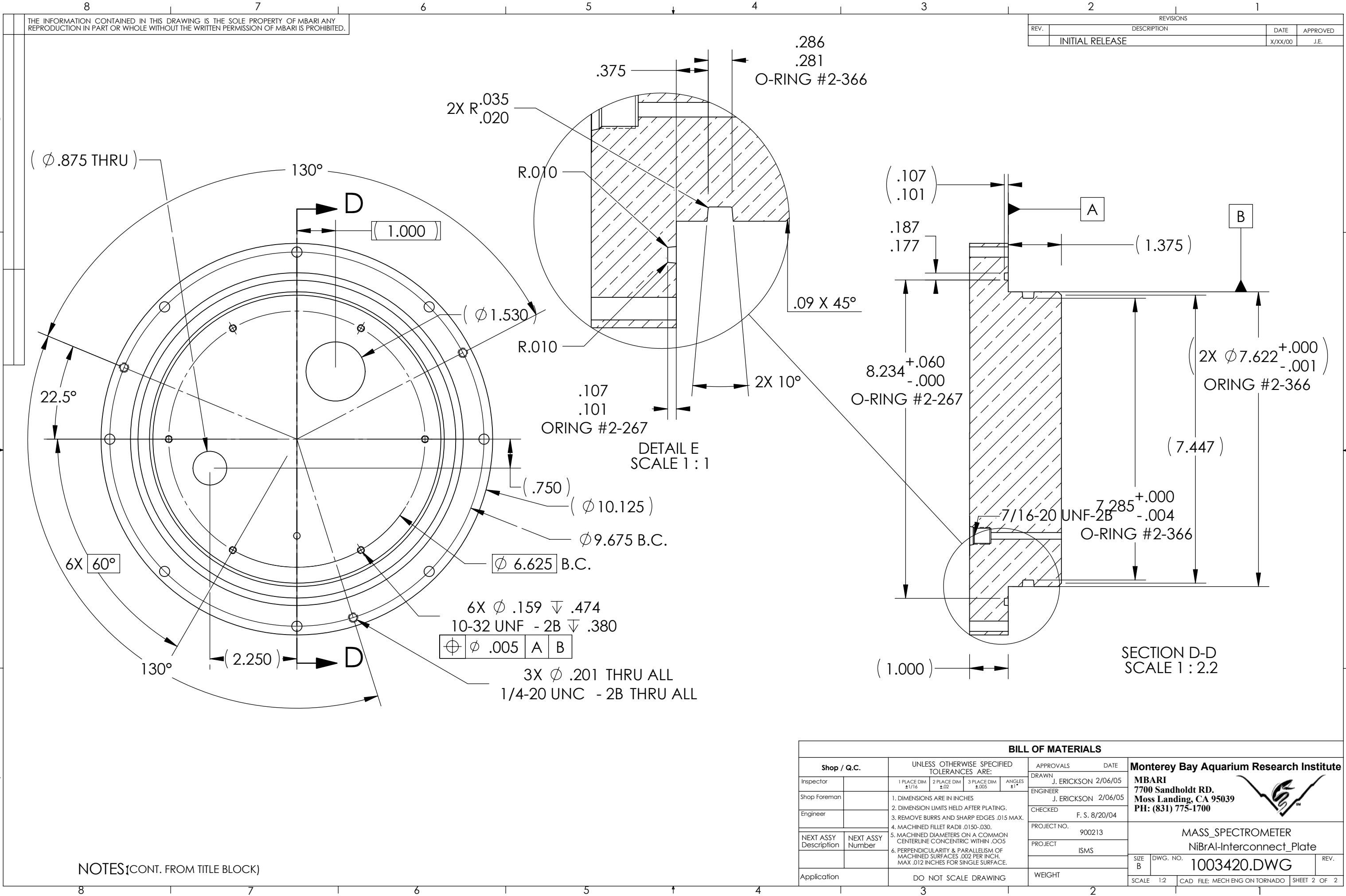
Monterey Bay Aquarium Research Institute  
MBARI  
7700 Sandholdt RD.  
Moss Landing, CA 95039  
PH: (831) 775-1700

MASS\_SPECTROMETER  
NiBrAl-Interconnect Plate

SIZE B DWG. NO. 1003420.DWG

SCALE 1:2 CAD FILE: MECH ENG ON TORNADO SHEET 1 OF 2

NOTES: (Continued from Title Block)



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| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
|           | INITIAL RELEASE | X/XX/00 | J.E.     |

.286  
.281  
O-RING #2-366

2X R.035  
.020

R.010

.09 X 45°

2X 10°

ORING #2-267

DETAIL E  
SCALE 1 : 1

O-RING #2-267

A

B

2X  $\phi 7.622^{+.000}_{-.001}$   
ORING #2-366

O-RING #2-366

SECTION D-D  
SCALE 1 : 2.2

NOTES (CONT. FROM TITLE BLOCK)

| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                          |                               |                         |              |             |         |  |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|-------------------------|--------------|-------------|---------|--|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                          |                               |                         | APPROVALS    |             | DATE    |  |
| Inspector             |                  | 1 PLACE DIM<br>$\pm 1/16$                                                                                                                                                                                                                                                                                                                       | 2 PLACE DIM<br>$\pm .02$ | 3 PLACE DIM<br>$\pm .005$     | ANGLES<br>$\pm 1^\circ$ | DRAWN        | J. ERICKSON | 2/06/05 |  |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES<br>2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. |                          |                               |                         | ENGINEER     | J. ERICKSON | 2/06/05 |  |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                          |                               |                         | CHECKED      | F. S.       | 8/20/04 |  |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                          |                               |                         | PROJECT NO.  | 900213      |         |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                          |                               |                         | PROJECT      | ISMS        |         |  |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                          |                               |                         | WEIGHT       |             |         |  |
|                       |                  | SCALE 1:2                                                                                                                                                                                                                                                                                                                                       |                          | CAD FILE: MECH ENG ON TORNADO |                         | SHEET 2 OF 2 |             |         |  |

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