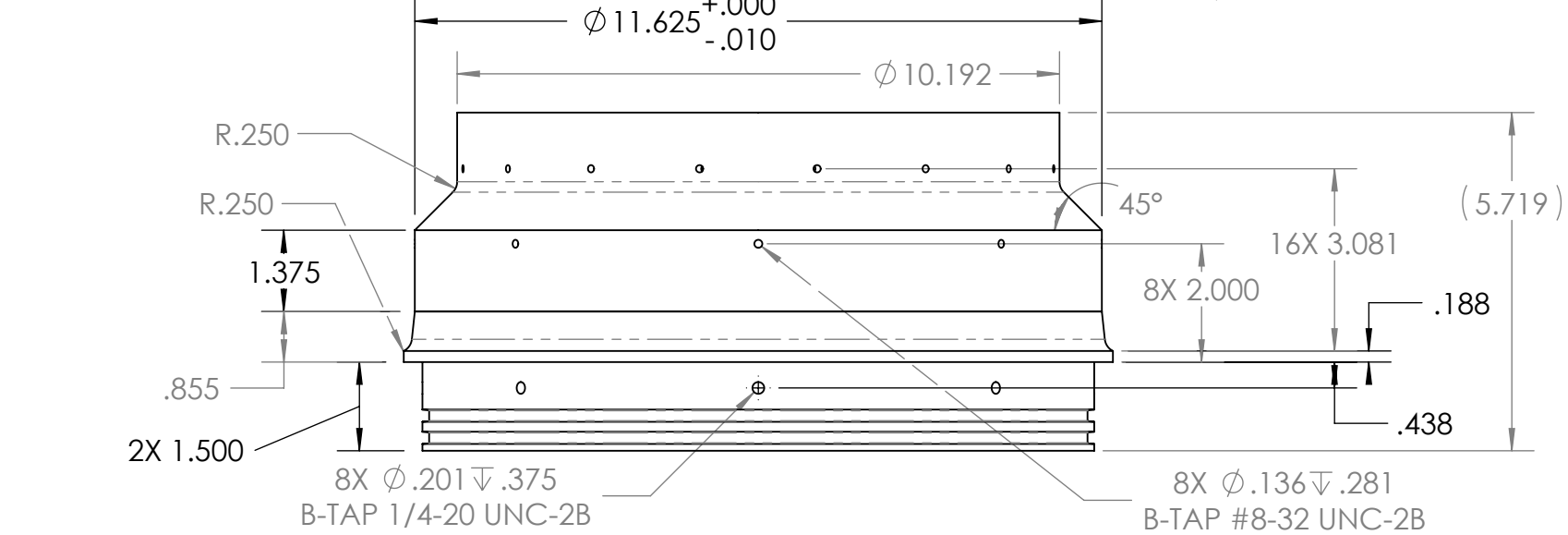
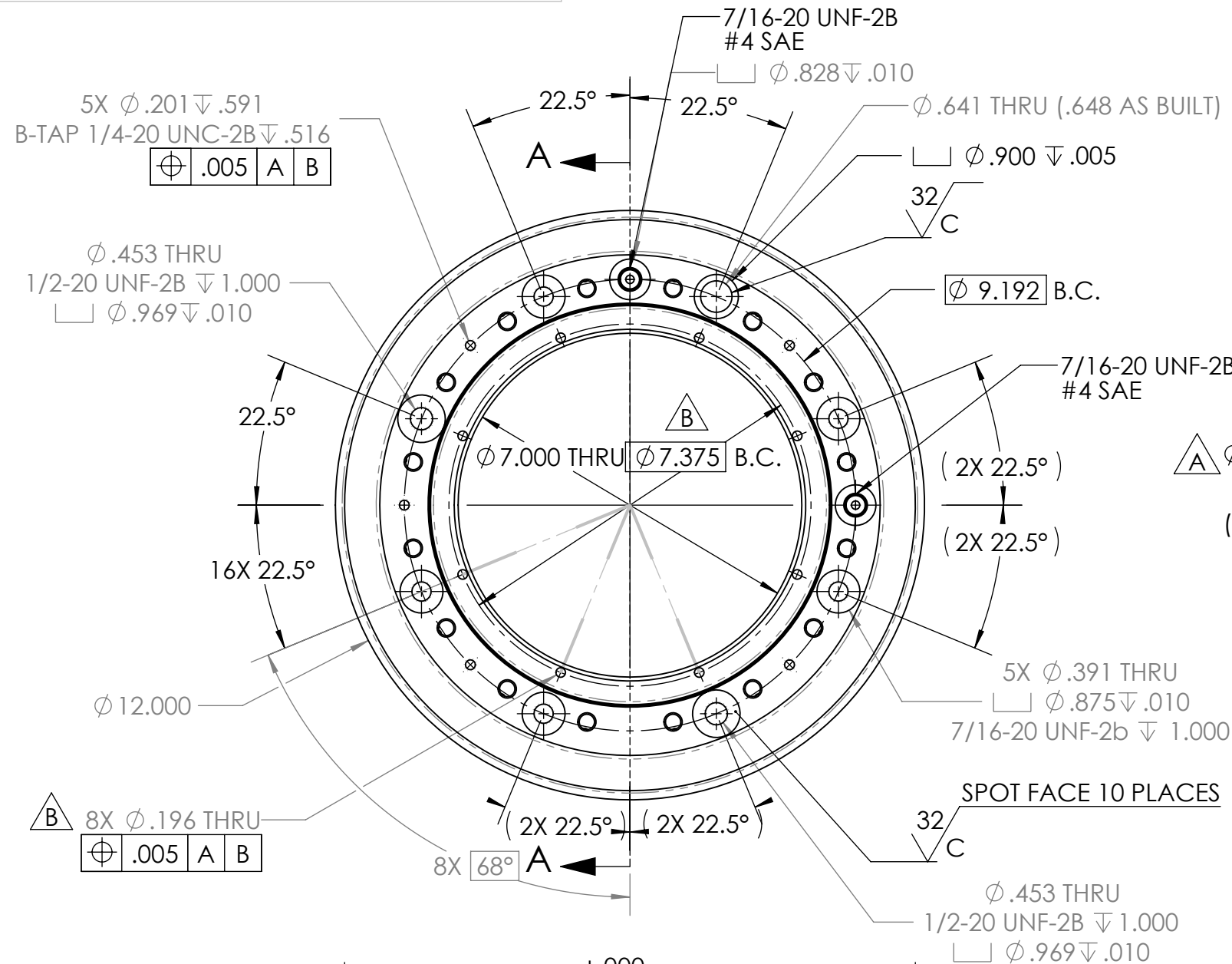
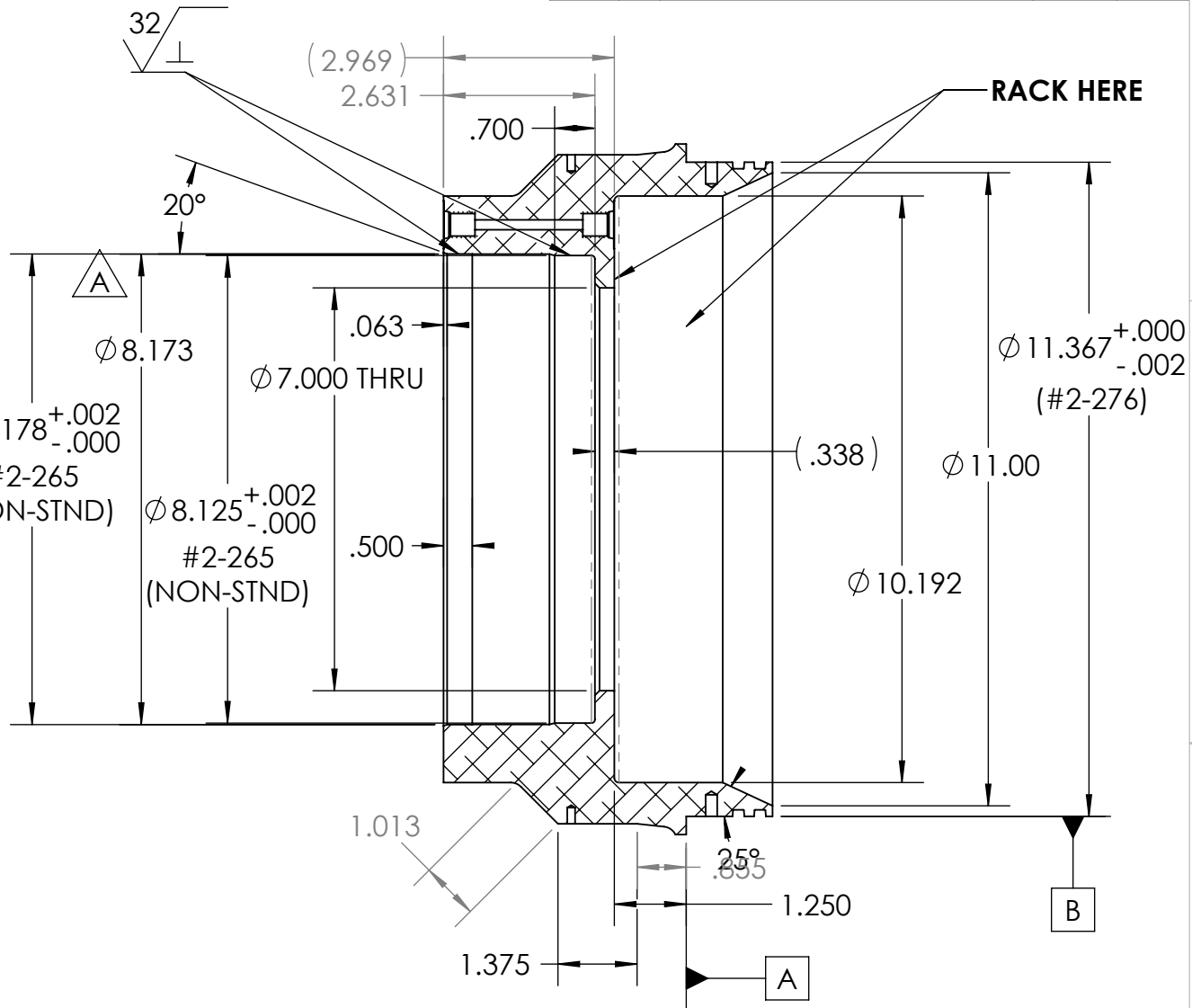


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| REVISIONS       |      |                                              |           |          |
|-----------------|------|----------------------------------------------|-----------|----------|
| INITIAL RELEASE |      |                                              | X/XX/01   | J.E.     |
| REVISIONS       |      |                                              |           |          |
| ZONE            | REV. | DESCRIPTION                                  | DATE      | APPROVED |
|                 | A    | ADDED O-RING SURFACE (SECTION A-A, DETAIL D) | 7/23/2014 | J.E.     |
| C6              | B    | ADDED DIM'S & TOL. to .196 HOLE PATTERN      | 9/20/2018 | J.E.     |



NOTES: (CONT. FROM TITLE BLOCK)



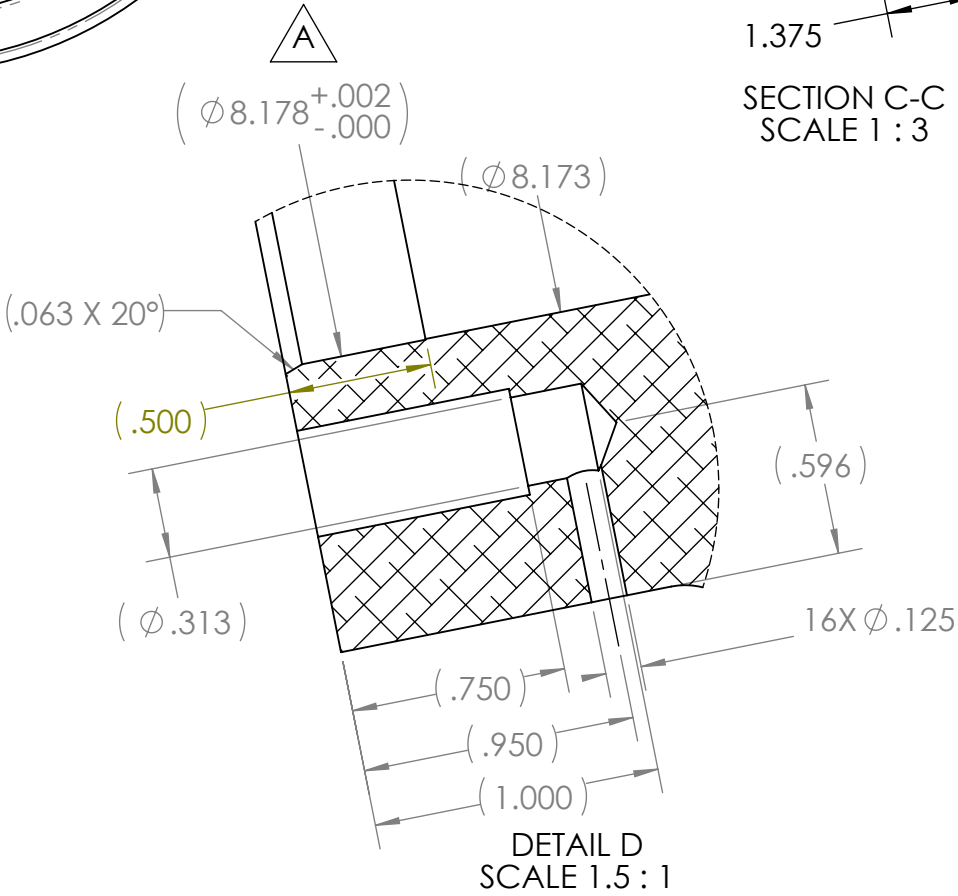
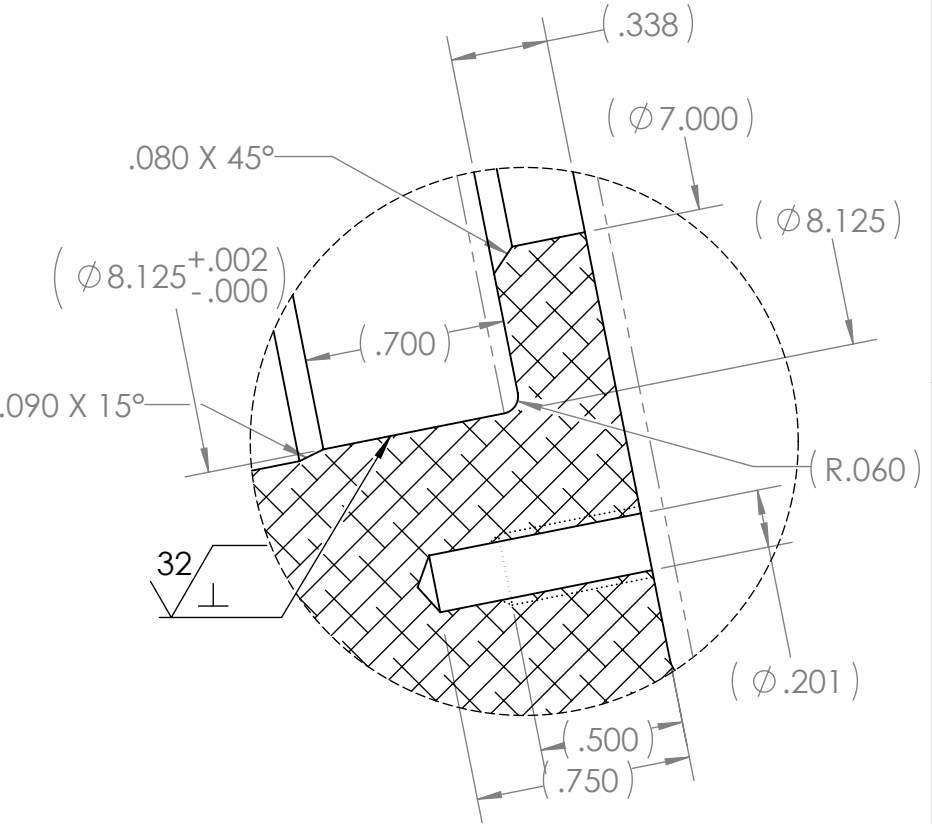
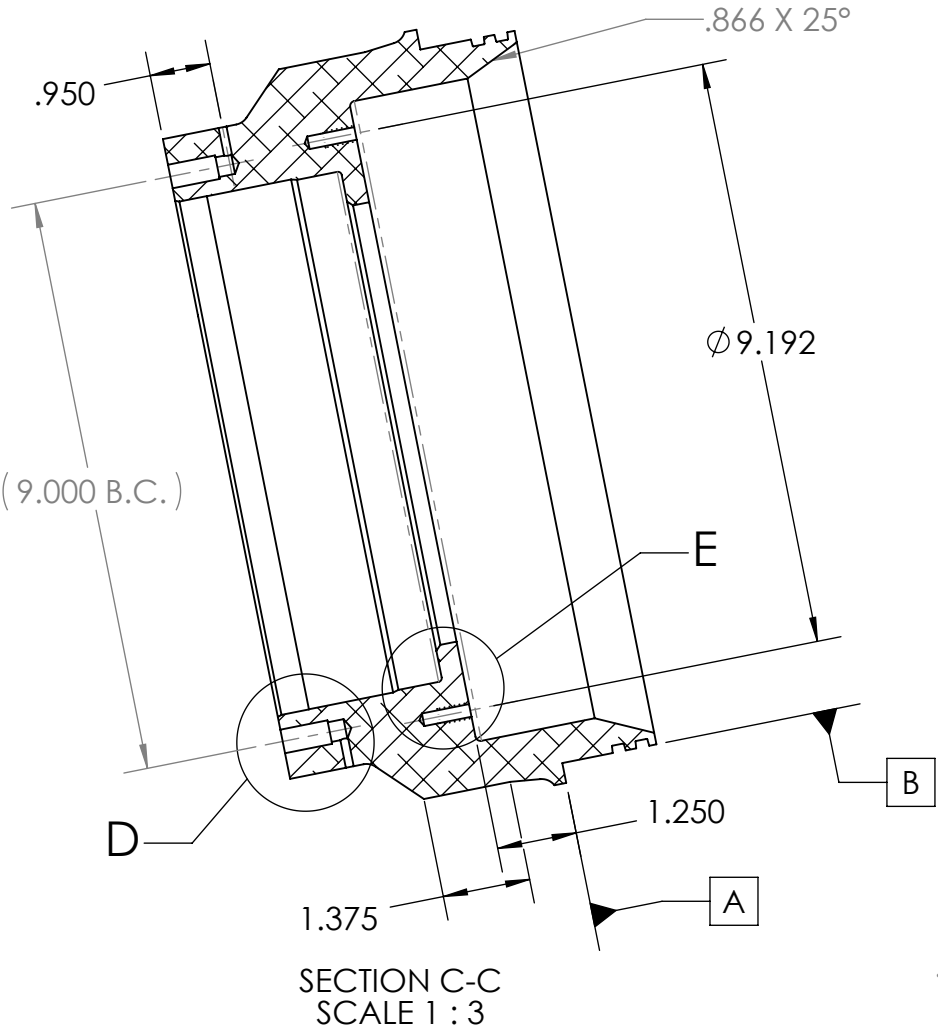
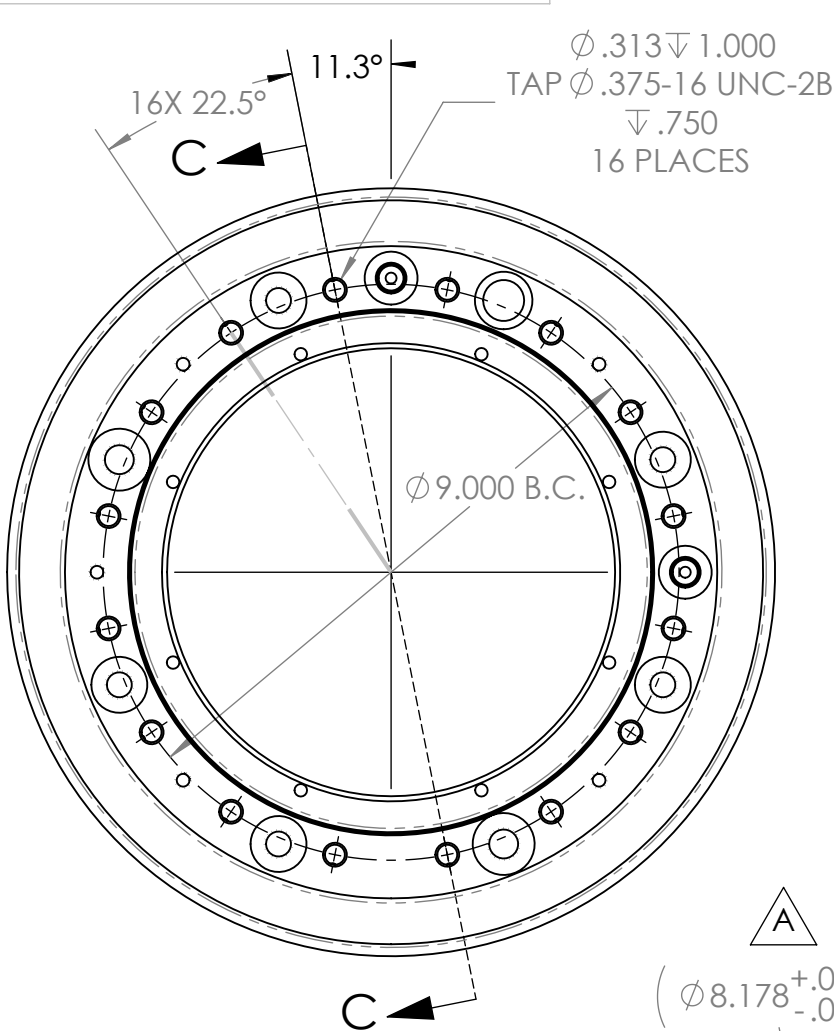
SECTION A-A  
SCALE 1 : 3

9. Q.C. (INSPECTION) REPORT REQUIRED FOR EACH PIECE.  
8. Finish: HARD BLACK ANODIZE IN ACCORDANCE WITH MIL-A-8625F Type III (.001 THICK) Nickel Acetate Seal Coat, TEFLON TOP COAT. RACK AS SHOWN, (DIMENSION LIMITS HELD AFTER PLATING, see note #2)  
7. PROJECT LIBRARY:\ESP\G3-ESP\Solidworks files\Turbine\NewFMldrive

|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1                     | 1                | P-201531-13                                                                                                                                                                                                                                                                                                                                     | ESP Press Hull-DOME-A1 |                      | MBARI          | 6061-T6 Alloy                                                                                                                                                                                                                                                                                   |                                         |
| ITEM NO.              | UNIT QTY.        | Part Number                                                                                                                                                                                                                                                                                                                                     | DESCRIPTION            |                      | Vendor         | MATERIAL                                                                                                                                                                                                                                                                                        |                                         |
| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE:                                                                                                                                                                                                                                                                                                   |                        |                      | APPROVALS DATE |                                                                                                                                                                                                                                                                                                 |                                         |
| Inspector             |                  | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.02    | 3 PLACE DIM<br>±.005 | ANGLES<br>±1°  | <div>Monterey Bay Aquarium Research Institute</div> <div><b>MBARI</b></div> <div><b>7700 Sandholdt RD.</b></div> <div><b>Moss Landing, CA 95039</b></div> <div><b>PH: (831) 775-1700</b></div> <div></div> |                                         |
| 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              |                  |                                                                                                                                                                                                                                                                                                                                                 |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
| NEXT ASSY Description | NEXT ASSY Number | PROJECT NO. 901228.99                                                                                                                                                                                                                                                                                                                           |                        |                      |                |                                                                                                                                                                                                                                                                                                 | MAKAI - LRAUV<br>ESP Press Hull-DOME-A1 |
|                       |                  | PROJECT ESP                                                                                                                                                                                                                                                                                                                                     |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
|                       |                  | WEIGHT 16.904                                                                                                                                                                                                                                                                                                                                   |                        |                      |                |                                                                                                                                                                                                                                                                                                 |                                         |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                        |                      | SIZE B         | DWG. NO. P-201531-13.DWG                                                                                                                                                                                                                                                                        | REV. B                                  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                        |                      | SCALE 1:4      | CAD FILE: MECH ENG ON TORNADO                                                                                                                                                                                                                                                                   | SHEET 1 OF 3                            |

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NOTES: (CONT. FROM TITLE BLOCK)

|                       |                  |                                                                                                           |                        |                                                      |               |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------|---------------|
| 1                     | 1                | P-201531-13                                                                                               | ESP Press Hull-DOME-A1 | MBARI                                                | 6061-T6 Alloy |
| ITEM NO.              | UNIT QTY.        | Part_Number                                                                                               | DESCRIPTION            | Vendor                                               | MATERIAL      |
| BILL OF MATERIALS     |                  |                                                                                                           |                        |                                                      |               |
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                |                        | APPROVALS DATE                                       |               |
| Inspector             |                  | 1 PLACE DIM ±1/16                                                                                         | 2 PLACE DIM ±.02       | 3 PLACE DIM ±.005                                    | ANGLES ±1°    |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES                                                                               |                        | DRAWN J. ERICKSON 7/9/13                             |               |
| Engineer              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.                                                                   |                        | ENGINEER J. ERICKSON 7/9/13                          |               |
|                       |                  | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.                                                                 |                        | CHECKED                                              |               |
|                       |                  | 4. MACHINED FILLET RADII .0150-.030.                                                                      |                        | PROJECT NO. 901228.99                                |               |
| NEXT ASSY Description | NEXT ASSY Number | 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005                                       |                        | PROJECT ESP                                          |               |
|                       |                  | 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. |                        | WEIGHT 16.904 lb.                                    |               |
| Application           |                  | DO NOT SCALE DRAWING                                                                                      |                        | SIZE B DWG. NO. P-201531-13.DWG                      |               |
|                       |                  |                                                                                                           |                        | SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 3 |               |

DETAIL E  
SCALE 1.5:1

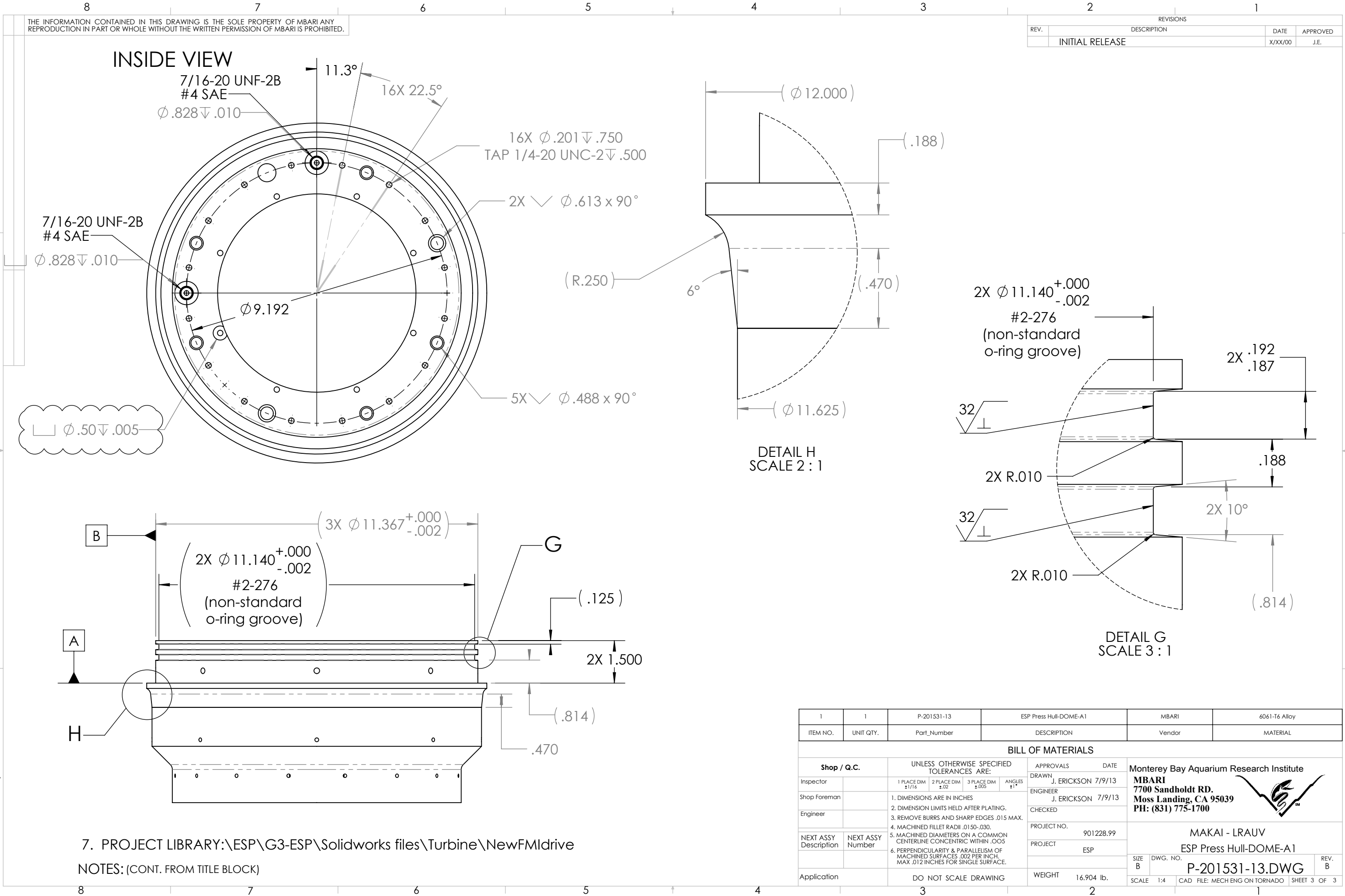
DETAIL D  
SCALE 1.5:1

Monterey Bay Aquarium Research Institute  
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Moss Landing, CA 95039  
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MAKAI - LRAUV  
ESP Press Hull-DOME-A1

REV. B



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

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NOTES: (CONT. FROM TITLE BLOCK)

|                       |                  |                                                                                                           |                        |                                                      |                      |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------|----------------------|
| 1                     | 1                | P-201531-13                                                                                               | ESP Press Hull-DOME-A1 | MBARI                                                | 6061-T6 Alloy        |
| ITEM NO.              | UNIT QTY.        | Part_Number                                                                                               | DESCRIPTION            | Vendor                                               | MATERIAL             |
| BILL OF MATERIALS     |                  |                                                                                                           |                        |                                                      |                      |
| 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 7/9/13                             |                      |
| Engineer              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.                                                                   |                        | ENGINEER J. ERICKSON 7/9/13                          |                      |
|                       |                  | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.                                                                 |                        | CHECKED                                              |                      |
|                       |                  | 4. MACHINED FILLET RADII .0150-.030.                                                                      |                        | PROJECT NO. 901228.99                                |                      |
| NEXT ASSY Description | NEXT ASSY Number | 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005                                       |                        | PROJECT ESP                                          |                      |
|                       |                  | 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE. |                        | WEIGHT 16.904 lb.                                    |                      |
| Application           |                  | DO NOT SCALE DRAWING                                                                                      |                        | SIZE B DWG. NO. P-201531-13.DWG                      |                      |
|                       |                  |                                                                                                           |                        | SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 3 |                      |

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