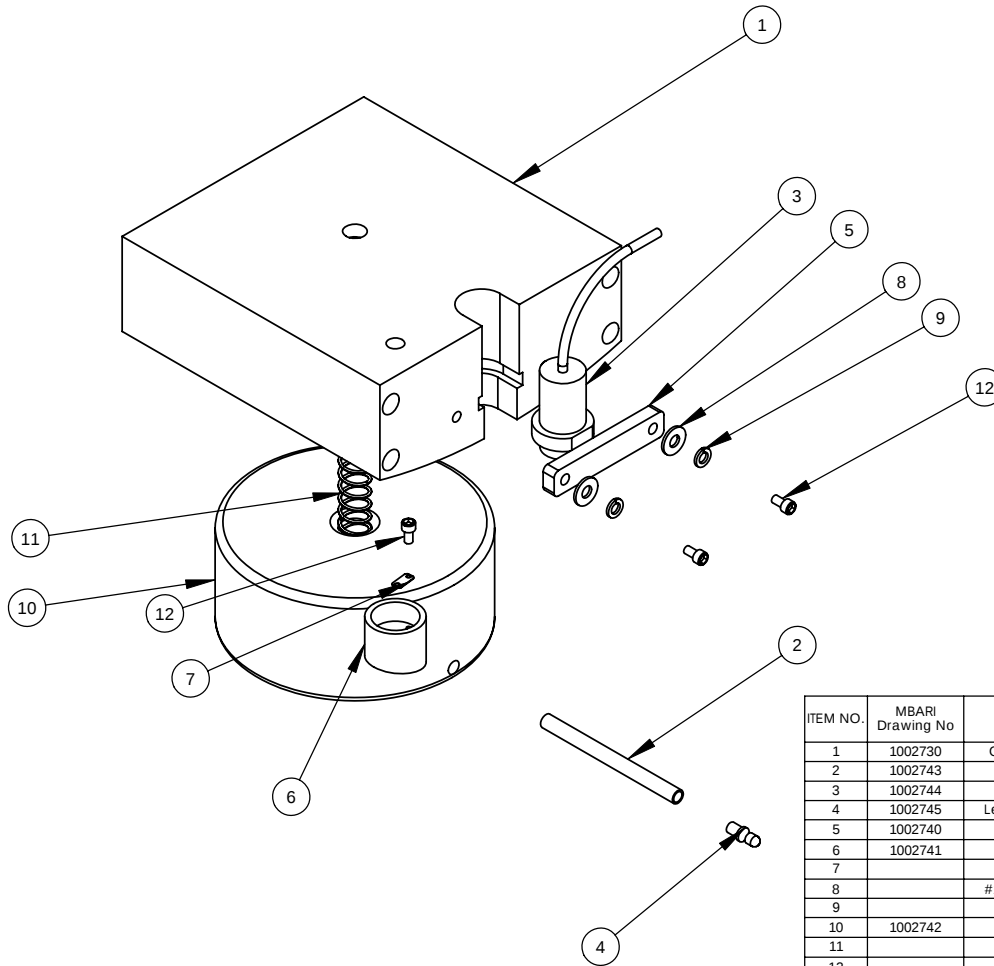


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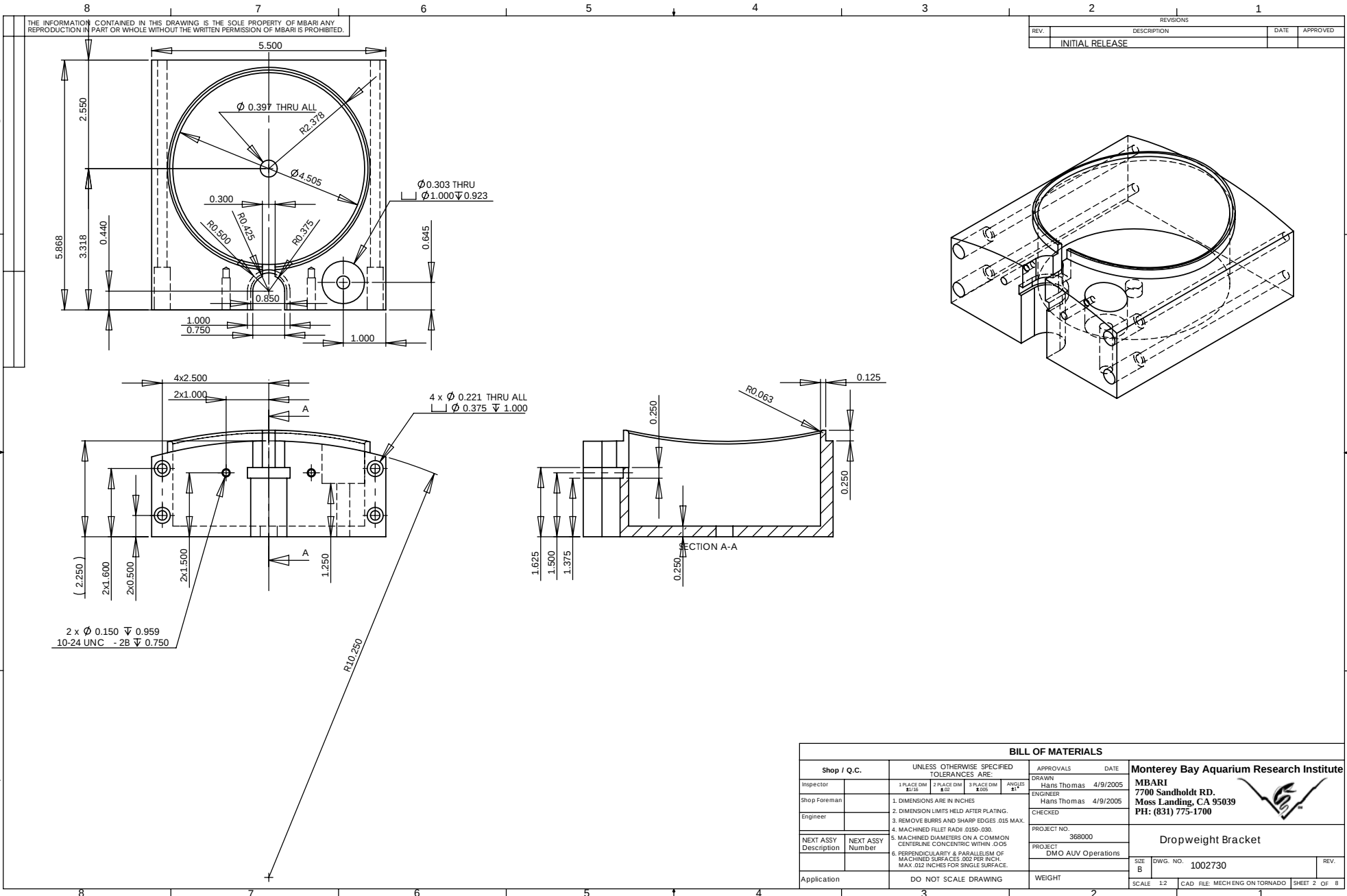
| REVISIONS       |             |      |          |
|-----------------|-------------|------|----------|
| REV.            | DESCRIPTION | DATE | APPROVED |
| INITIAL RELEASE |             |      |          |

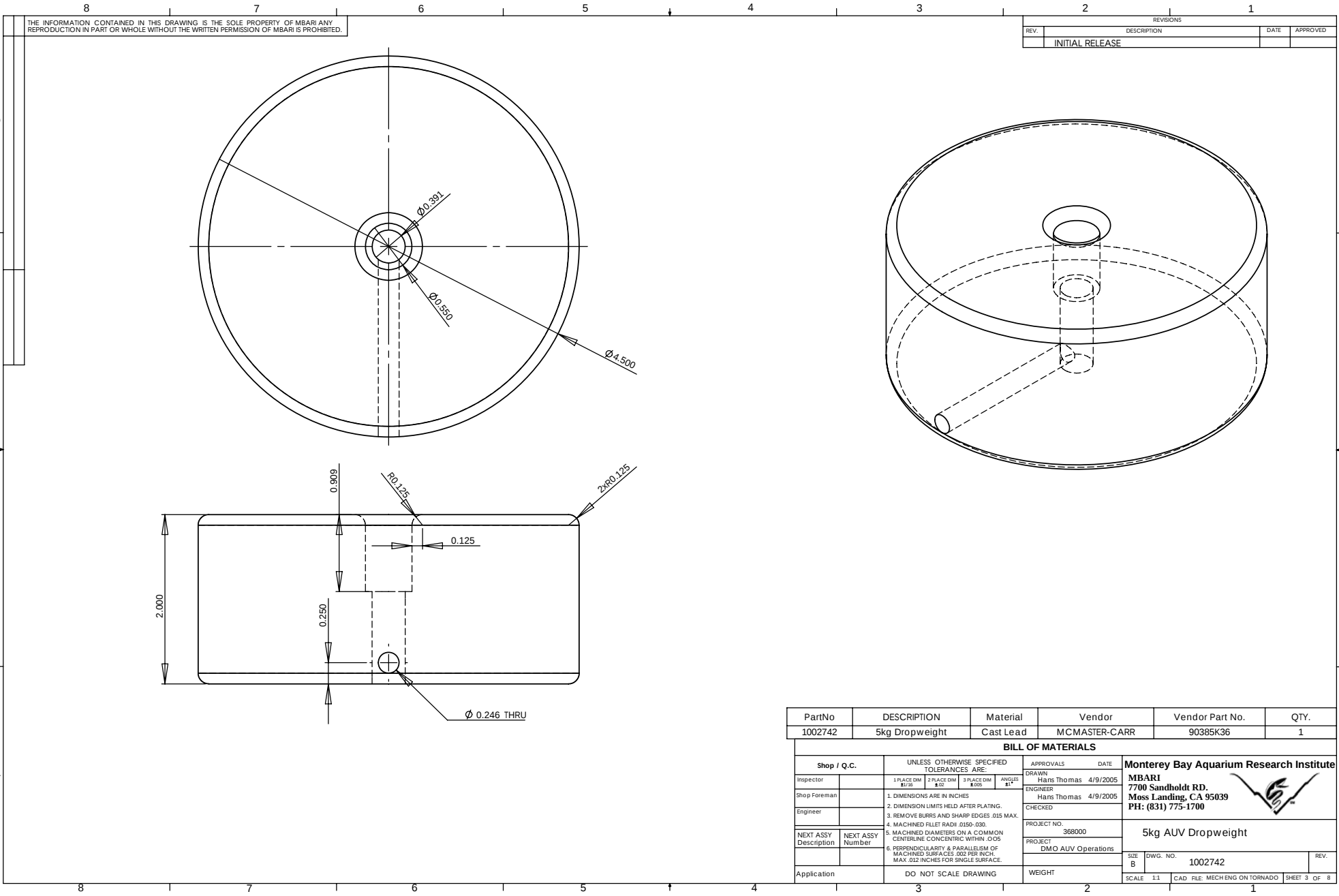


| ITEM NO. | MBARI Drawing No | DESCRIPTION                      | Material      | Suggested Vendor | Vendor Part No. | QTY. |
|----------|------------------|----------------------------------|---------------|------------------|-----------------|------|
| 1        | 1002730          | CTD AUV Dropweight Bracket       | UHMW Plastic  | MBARI            |                 | 1    |
| 2        | 1002743          | Dropweight Retaining Pin         | 18-8 SS       | MCMaster-CARR    | 90145A553       | 1    |
| 3        | 1002744          | Modified Benthos Burnwire        | PVC,SS,Epoxy  | Benthos          | C-210-337-1     | 1    |
| 4        | 1002745          | Lever Tip, TR-600 Mech Release   | Delrin        | Benthos          | A-210-219       | 1    |
| 5        | 1002740          | Burnwire Retaining Plate         | UHMW Plastic  | MBARI            |                 | 1    |
| 6        | 1002741          | Burn Wire Ground Point           | 18-8 SS       | MBARI            |                 | 1    |
| 7        |                  | Ni Plated Solder Lug             | Nickel/Bronze | Digikey          | 907K-ND         | 1    |
| 8        |                  | #10 SS Flat Washer, .219x.5x.036 | 18-8 SS       | McMaster-CARR    | 98019A333       | 2    |
| 9        |                  | #10 SS Spring Washer             | 18-8 SS       | McMaster-CARR    | 92146A011       | 2    |
| 10       | 1002742          | 5kg Dropweight                   | Cast Lead     | MCMaster-CARR    | 90385K36        | 1    |
| 11       |                  | Metric Spring, 90.5mm x 50N      | 302SS         | MCMaster-CARR    | 94125K177       | 1    |
| 12       |                  |                                  | 18-8 SS       | MCMaster-CARR    |                 | 3    |

#### BILL OF MATERIALS

| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                       |                   | APPROVALS   |                    | DATE                          | Monterey Bay Aquarium Research Institute                           |
|-----------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|--------------------|-------------------------------|--------------------------------------------------------------------|
| Inspector             |                  | 1 PLACE DIM ±.010                                                                                                                                                                | 2 PLACE DIM ±.005 | DRAWN       | Hans Thomas        |                               |                                                                    |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES                                                                                                                                                      |                   | ENGINEER    | Hans Thomas        | 4/9/2005                      | 7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700 |
| Engineer              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030                                                      |                   | CHECKED     |                    |                               |                                                                    |
| NEXT ASSY Description | NEXT ASSY Number | 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. |                   | PROJECT NO. | 368000             |                               | Dropweight Subassembly                                             |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                             |                   | PROJECT     | DMO AUV Operations |                               |                                                                    |
|                       |                  |                                                                                                                                                                                  |                   | WEIGHT      |                    |                               |                                                                    |
|                       |                  |                                                                                                                                                                                  |                   | SIZE        | B                  | DWG. NO. 1002739              | REV.                                                               |
|                       |                  |                                                                                                                                                                                  |                   | SCALE       | 1:5                | CAD FILE: MECH ENG ON TORNADO | SHEET 1 OF 8                                                       |





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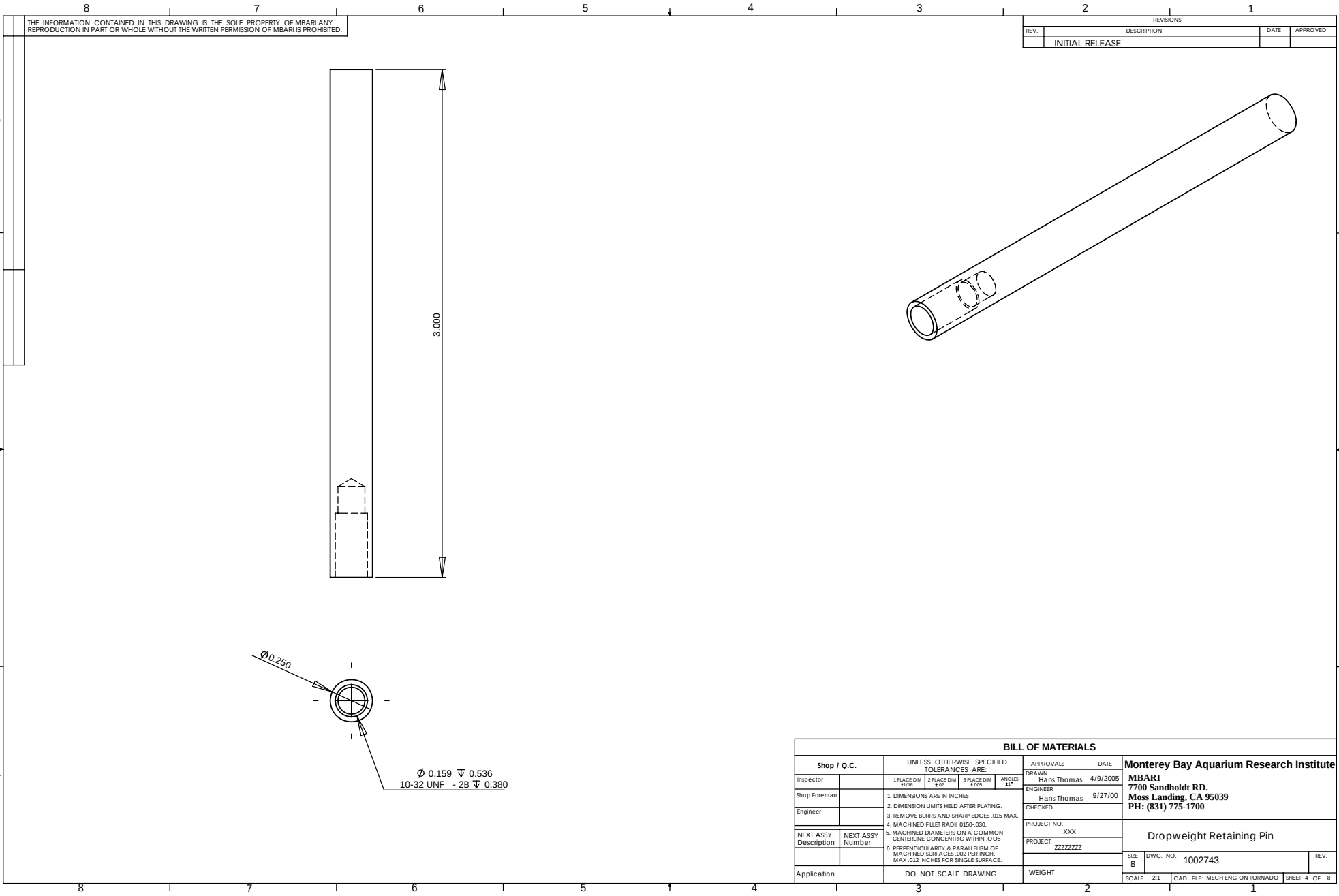
| REVISIONS       |             |      |          |
|-----------------|-------------|------|----------|
| REV.            | DESCRIPTION | DATE | APPROVED |
| INITIAL RELEASE |             |      |          |

| PartNo                                                                                                    | DESCRIPTION      | Material                                   | Vendor           | Vendor Part No.                                     | QTY.       |  |
|-----------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------|------------------|-----------------------------------------------------|------------|--|
| 1002742                                                                                                   | 5kg Dropweight   | Cast Lead                                  | MCMMASTER-CARR   | 90385K36                                            | 1          |  |
| BILL OF MATERIALS                                                                                         |                  |                                            |                  |                                                     |            |  |
| Shop / Q.C.                                                                                               |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: |                  | APPROVALS DATE                                      |            |  |
| Inspector                                                                                                 |                  | 1 PLACE DIM ±.010                          | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.050                                   | ANGLES ±.1 |  |
| Shop Foreman                                                                                              |                  | 1. DIMENSIONS ARE IN INCHES                |                  | DRAWN<br>Hans Thomas 4/9/2005                       |            |  |
| Engineer                                                                                                  |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.    |                  | ENGINEER<br>Hans Thomas 4/9/2005                    |            |  |
| NEXT ASSY Description                                                                                     | NEXT ASSY Number | 3. REMOVE BURRS AND SHARP EDGES .015 MAX.  |                  | CHECKED                                             |            |  |
|                                                                                                           |                  | 4. MACHINED FILLET RADII .0150-.030.       |                  | PROJECT NO. 369000                                  |            |  |
| 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005                                       |                  | PROJECT DMO AUV Operations                 |                  |                                                     |            |  |
| 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX. .012 INCHES FOR SINGLE SURFACE. |                  | 5kg AUV Dropweight                         |                  |                                                     |            |  |
| Application                                                                                               |                  | DO NOT SCALE DRAWING                       |                  | WEIGHT                                              |            |  |
|                                                                                                           |                  |                                            |                  | SIZE B DWG. NO. 1002742                             |            |  |
|                                                                                                           |                  |                                            |                  | SCALE 1:1 CAD FILE: MECH.ENG ON TORNAO SHEET 3 OF 8 |            |  |

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5kg AUV Dropweight



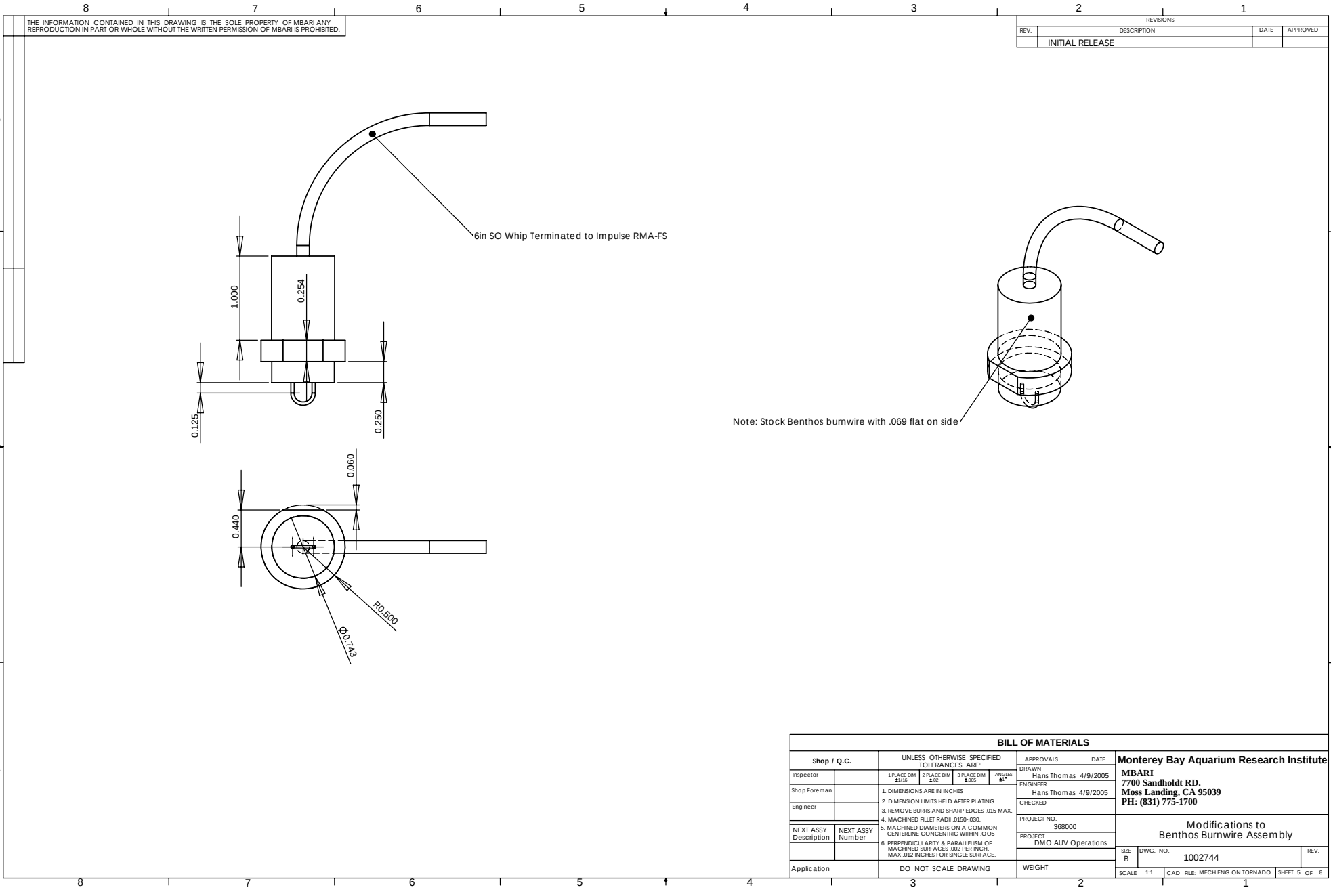
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| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             |             |                  |                                                     |                                                                                                                         |  |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------|-------------|------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                  |                   |             | APPROVALS   |                  | DATE                                                |                                                                                                                         |  |
| Inspector             |                  | 1 PLACE DIM ±.10                                                                                                                                                                                                                                                                                                                                | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±.1° | DRAWN       | Hans Thomas      | 4/9/2005                                            | Monterey Bay Aquarium Research Institute<br>MBARI<br>7700 Sandholdt RD.<br>Moss Landing, CA 95039<br>PH: (831) 775-1700 |  |
| 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 FOR INCH, MAX .012 INCHES FOR SINGLE SURFACE. |                  |                   |             | ENGINEER    | Hans Thomas      | 9/27/00                                             |                                                                                                                         |  |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | CHECKED     |                  |                                                     |                                                                                                                         |  |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | PROJECT NO. |                  | XXX                                                 |                                                                                                                         |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | PROJECT     |                  | ZZZZZZZZ                                            |                                                                                                                         |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | SIZE B      | DWG. NO. 1002743 |                                                     | REV.                                                                                                                    |  |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                  |                   |             | WEIGHT      |                  | SCALE 2:1 CAD FILE: MECH ENG ON TORNAO SHEET 4 OF 8 |                                                                                                                         |  |

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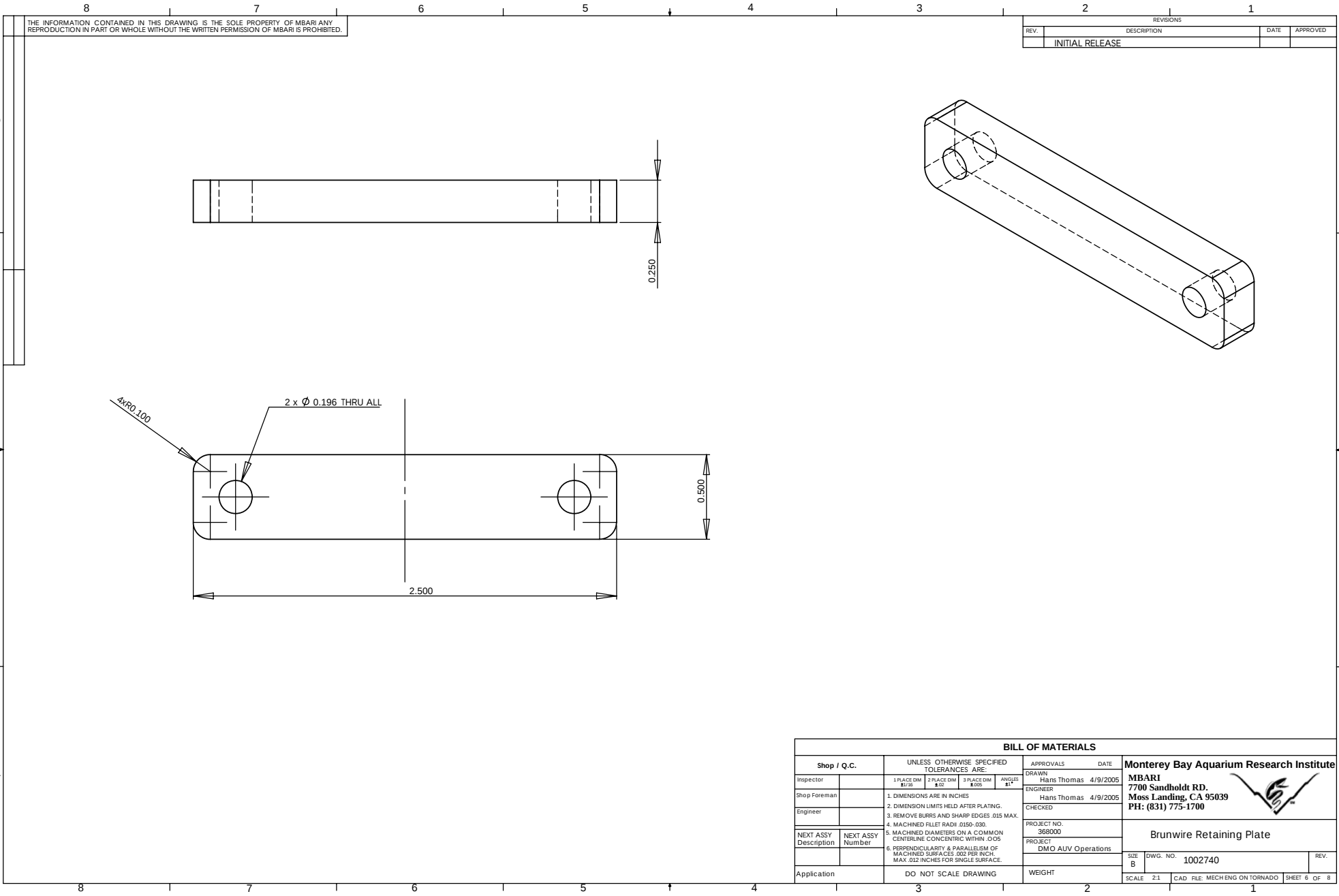
Dropweight Retaining Pin



| REVISIONS       |             |      |          |
|-----------------|-------------|------|----------|
| REV.            | DESCRIPTION | DATE | APPROVED |
| INITIAL RELEASE |             |      |          |

| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             |                                            |                    |                                          |  |                        |  |  |  |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------|--------------------------------------------|--------------------|------------------------------------------|--|------------------------|--|--|--|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                  |                   |             | APPROVALS                                  |                    | DATE                                     |  |                        |  |  |  |
| Inspector             |                  | 1 PLACE DIM ±.10                                                                                                                                                                                                                                                                                                                                | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±.1° | DRAWN                                      |                    | Monterey Bay Aquarium Research Institute |  |                        |  |  |  |
| 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                                   |                    | MBARI                                    |  |                        |  |  |  |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | CHECKED                                    |                    | Hans Thomas 4/9/2005                     |  | 7700 Sandholdt RD.     |  |  |  |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | PROJECT NO.                                | 368000             |                                          |  | Moss Landing, CA 95039 |  |  |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | PROJECT                                    | DMO AUV Operations | PH: (831) 775-1700                       |  |                        |  |  |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |             | WEIGHT                                     |                    |                                          |  |                        |  |  |  |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                  |                   |             | Modifications to Benthos Burnwire Assembly |                    |                                          |  |                        |  |  |  |
|                       |                  | 3                                                                                                                                                                                                                                                                                                                                               |                  | 2                 |             | 1                                          |                    |                                          |  |                        |  |  |  |

|           |                               |              |  |  |  |  |  |      |  |
|-----------|-------------------------------|--------------|--|--|--|--|--|------|--|
| SIZE B    | DWG. NO.                      | 1002744      |  |  |  |  |  | REV. |  |
| SCALE 1:1 | CAD FILE: MECH ENG ON TORNAVO | SHEET 5 OF 8 |  |  |  |  |  |      |  |



| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |            |             |                    |                               |              |
|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|------------|-------------|--------------------|-------------------------------|--------------|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                      |                  |                   |            | APPROVALS   |                    | DATE                          |              |
| Inspector             |                  | 1 PLACE DIM ±.10                                                                                                                                                                                                                                                                                                                                | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±.1 | DRAWN       | Hans Thomas        | 4/9/2005                      |              |
| 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 .015-.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    | Hans Thomas        | 4/9/2005                      |              |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |            | CHECKED     |                    |                               |              |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |            | PROJECT NO. | 368000             |                               |              |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                            |                  |                   |            | PROJECT     | DMO AUV Operations |                               |              |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |            | WEIGHT      |                    |                               |              |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                 |                  |                   |            | SCALE       | 2:1                | CAD FILE: MECH ENG ON TORNAVO | SHEET 6 OF 8 |

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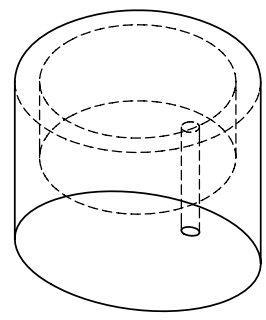
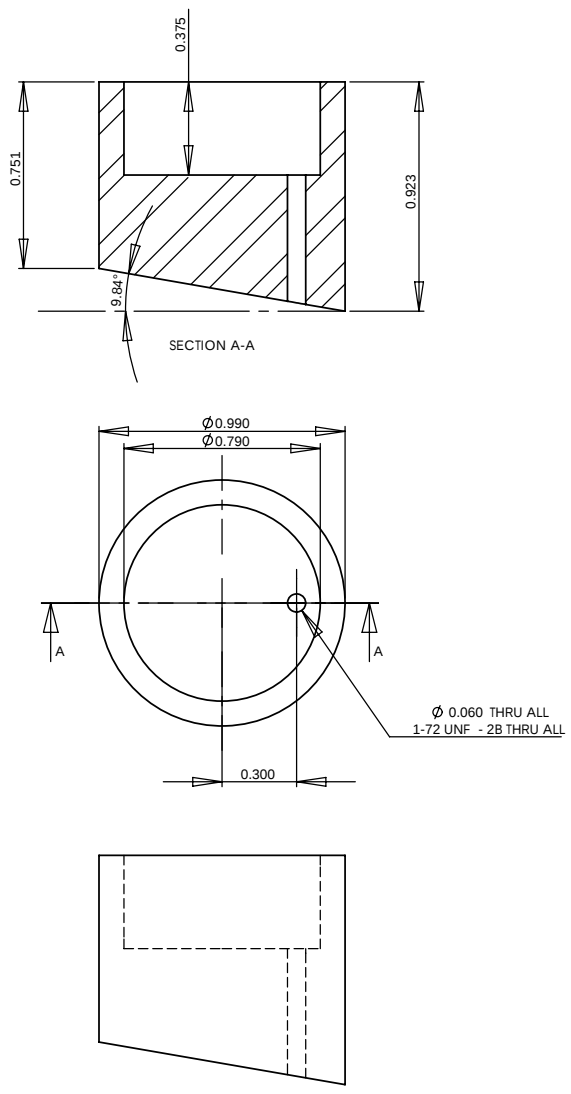


Brunwire Retaining Plate

SIZE B

DWG. NO. 1002740

REV.



| BILL OF MATERIALS     |                  |                                                                                                                                                                                                                                                                                                                                                |                  |                   |             |             |                    |                              |              |
|-----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------|-------------|--------------------|------------------------------|--------------|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                                                     |                  |                   |             | APPROVALS   |                    | DATE                         |              |
| Inspector             |                  | 1 PLACE DIM ±.10                                                                                                                                                                                                                                                                                                                               | 2 PLACE DIM ±.02 | 3 PLACE DIM ±.005 | ANGLES ±.1° | DRAWN       | Hans Thomas        | 4/9/2005                     |              |
| 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 .015-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 FOR INCH, MAX .012 INCHES FOR SINGLE SURFACE. |                  |                   |             | ENGINEER    | Hans Thomas        | 4/9/2005                     |              |
| Engineer              |                  |                                                                                                                                                                                                                                                                                                                                                |                  |                   |             | CHECKED     |                    |                              |              |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                                                |                  |                   |             | PROJECT NO. | 368000             |                              |              |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                           |                  |                   |             | PROJECT     | DMO AUV Operations |                              |              |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                |                  |                   |             | WEIGHT      |                    |                              |              |
|                       |                  |                                                                                                                                                                                                                                                                                                                                                |                  |                   |             | SCALE       | 2:1                | CAD FILE: MECH ENG ON TORNAO | SHEET 7 OF 8 |

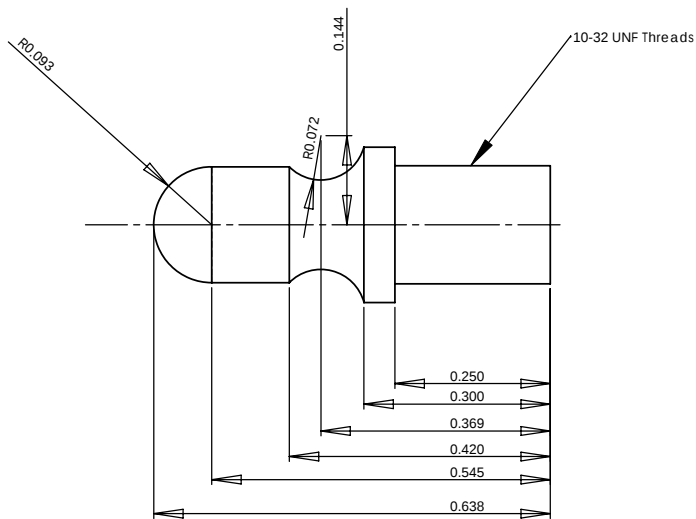
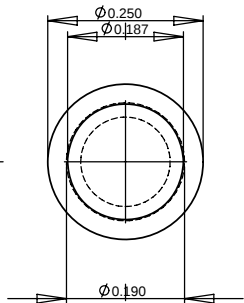
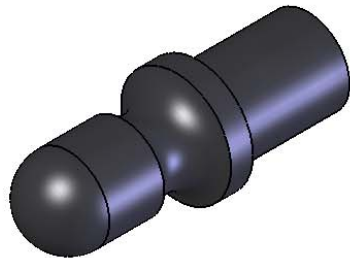
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Burn Wire Ground Point

|        |                  |      |
|--------|------------------|------|
| SIZE B | DWG. NO. 1002741 | REV. |
|--------|------------------|------|

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#### BILL OF MATERIALS

| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:                                                                                                                                                                                                                                                                     |                     |                      | APPROVALS                     | DATE                 | Monterey Bay Aquarium Research Institute |                                                                                       |                              |              |  |  |
|-----------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|-------------------------------|----------------------|------------------------------------------|---------------------------------------------------------------------------------------|------------------------------|--------------|--|--|
| Inspector             |                  | 1 PLACE DIM<br>±.1%                                                                                                                                                                                                                                                                                            | 2 PLACE DIM<br>±.05 | 3 PLACE DIM<br>±.005 | ANGLES<br>±.1°                | DRAWN<br>Hans Thomas | 4/9/2005                                 |  |                              |              |  |  |
| Shop Foreman          |                  | 1. DIMENSIONS ARE IN INCHES                                                                                                                                                                                                                                                                                    |                     |                      | ENGINEER<br>Hans Thomas       | 4/9/2005             |                                          |                                                                                       |                              |              |  |  |
| Engineer              |                  | 2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADI .015-.030.<br>5. MACHINED DIAMETERS ON A COMMON CENTRELINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE. |                     |                      | CHECKED                       |                      |                                          |                                                                                       |                              |              |  |  |
| NEXT ASSY Description | NEXT ASSY Number |                                                                                                                                                                                                                                                                                                                |                     |                      | PROJECT NO.<br>368000         |                      | Lever Tip, TR6000 Mech Release           |                                                                                       |                              |              |  |  |
|                       |                  |                                                                                                                                                                                                                                                                                                                |                     |                      | PROJECT<br>DMO AUV Operations |                      |                                          | SIZE B                                                                                | DWG. NO. 1002745             | REV.         |  |  |
| Application           |                  | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                           |                     |                      | WEIGHT                        |                      | SCALE 5:1                                |                                                                                       | CAD FILE: MECH ENG ON TORNAO | SHEET 8 OF 8 |  |  |