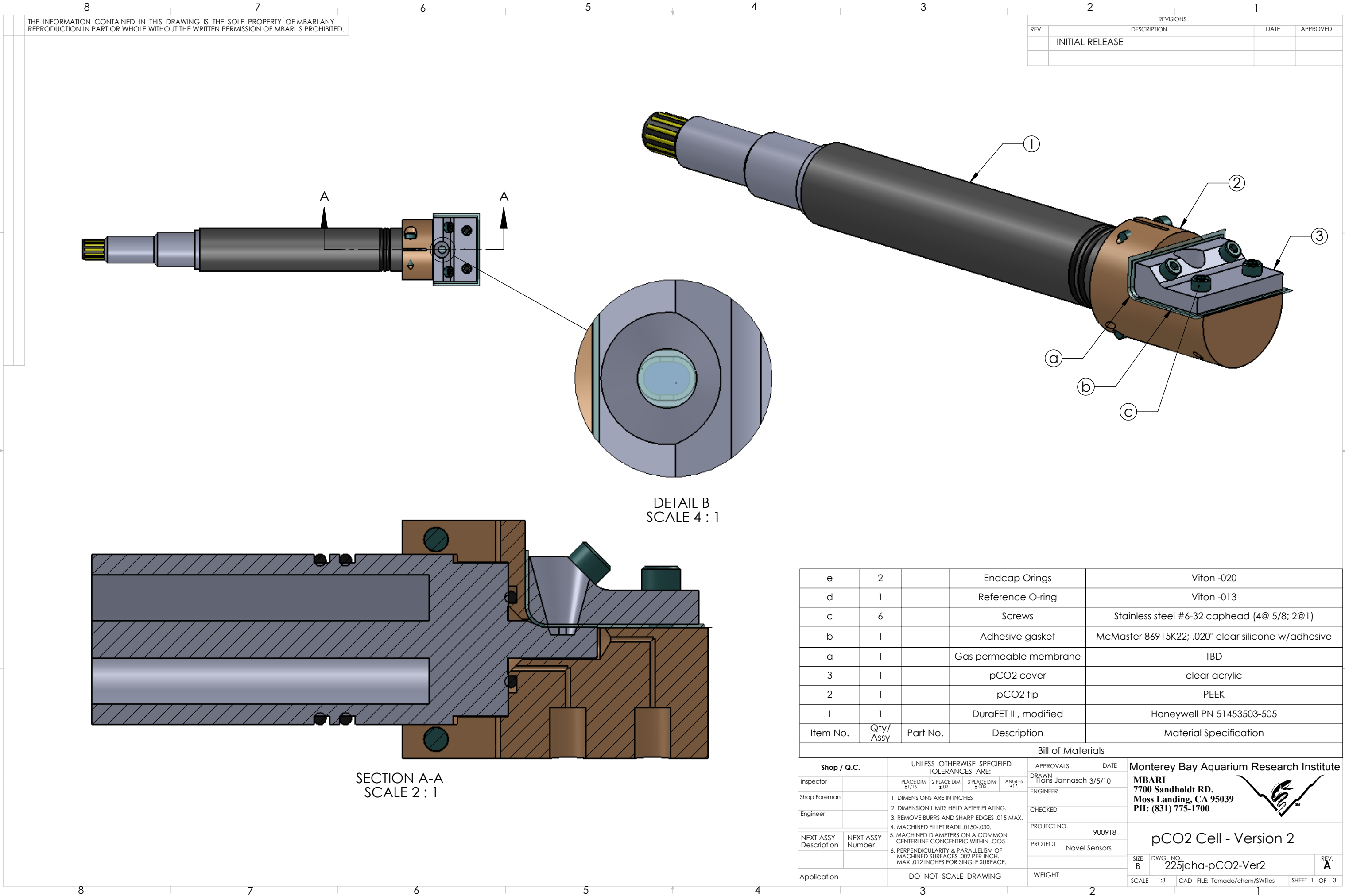
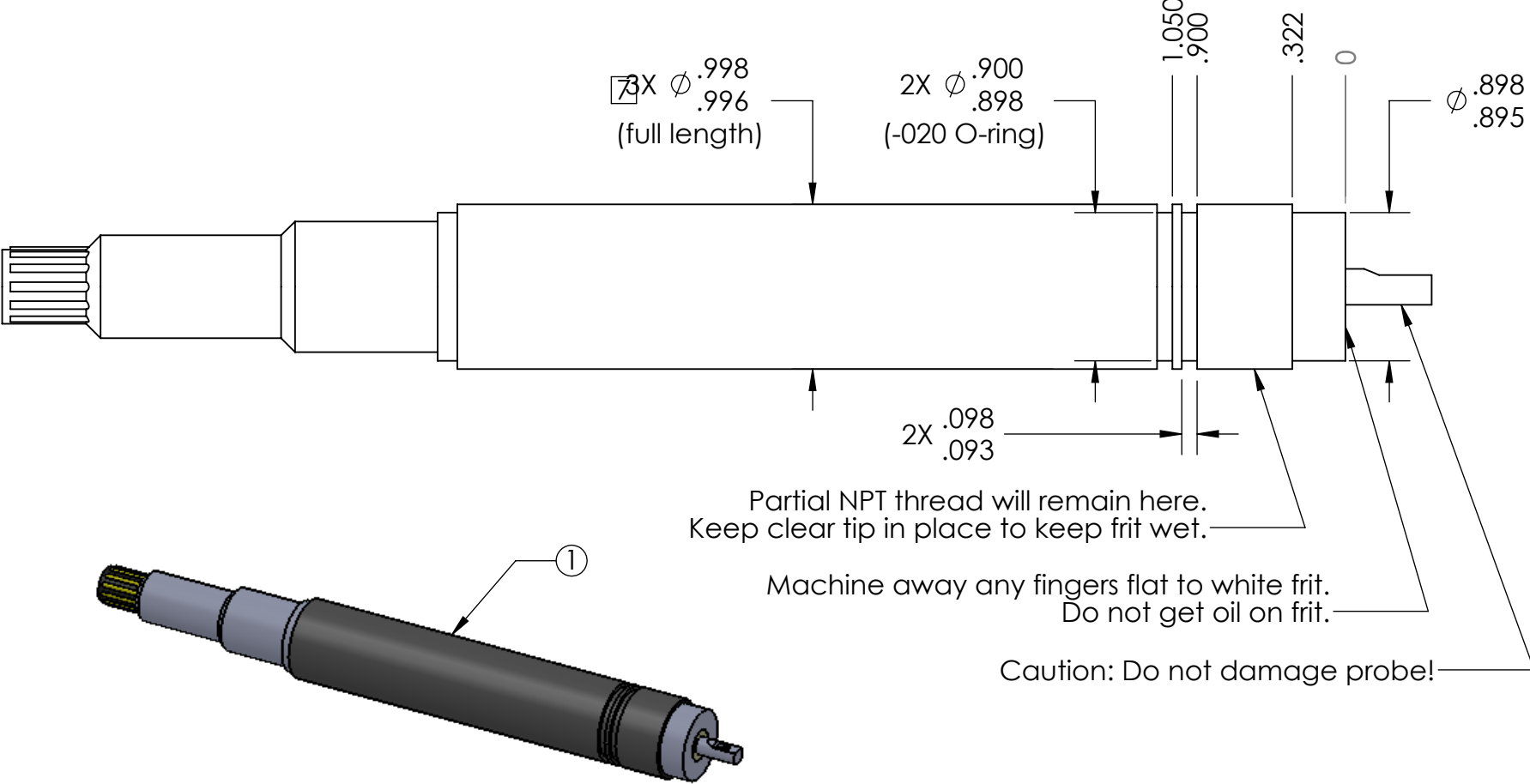
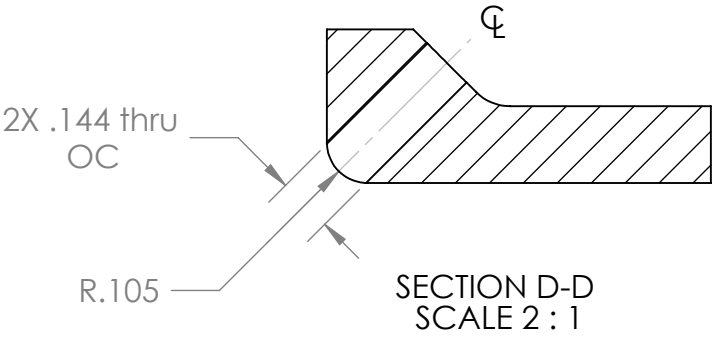
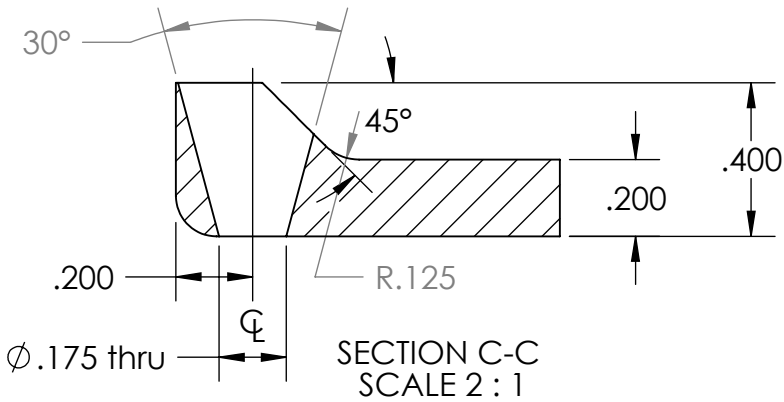
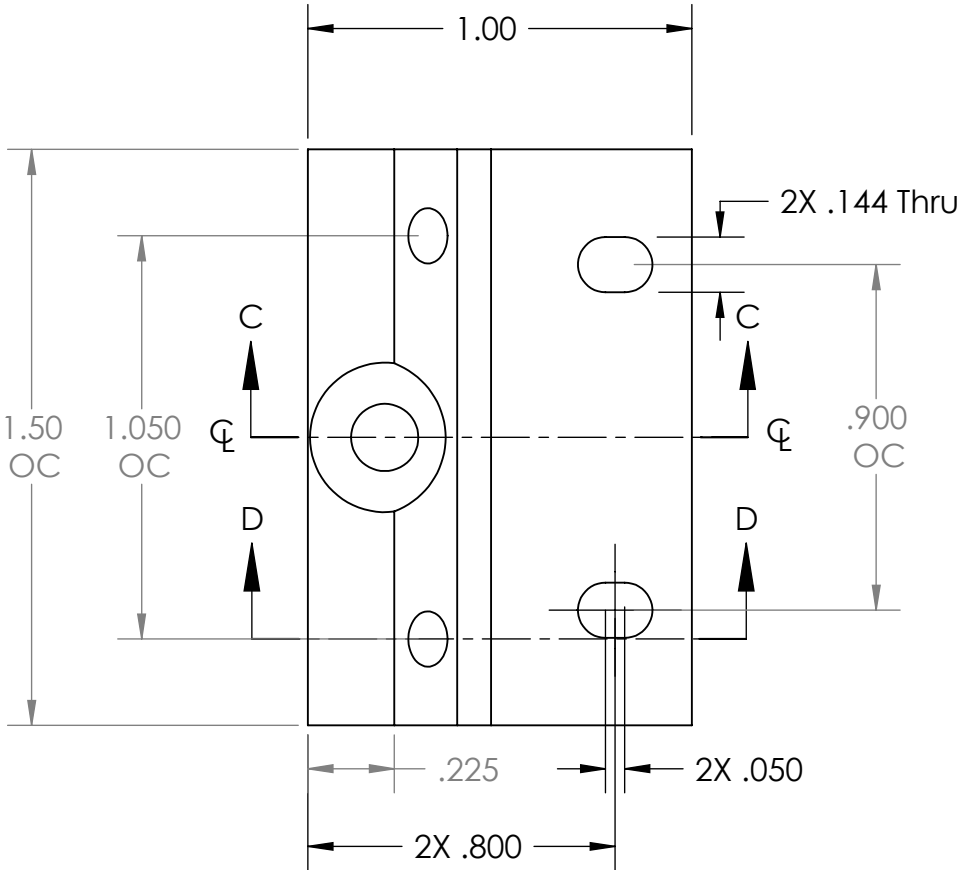


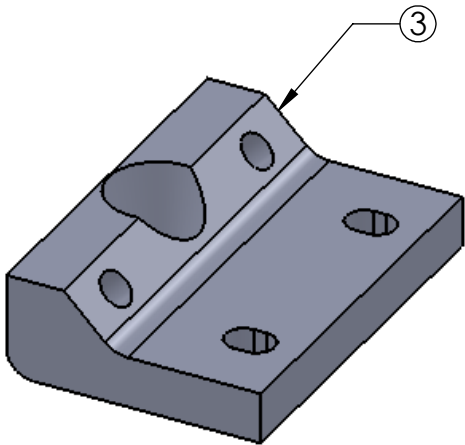


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| REVISIONS |                 |      |          |
|-----------|-----------------|------|----------|
| REV.      | DESCRIPTION     | DATE | APPROVED |
|           | INITIAL RELEASE |      |          |
|           |                 |      |         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



MODIFICATION TO DuraFET III



Note 7:  
The probe tip should fit snugly on the  $\phi 1$  OD of the probe.

|          |           |          |                       |                           |
|----------|-----------|----------|-----------------------|---------------------------|
| 3        | 1         |          | pCO2 cover            | clear acrylic             |
| 1        | 1         |          | DuraFET III, modified | Honeywell PN 51453503-505 |
| Item No. | Qty/ Assy | Part No. | Description           | Material Specification    |

| Bill of Materials     |                  |                                            |                            |
|-----------------------|------------------|--------------------------------------------|----------------------------|
| Shop / Q.C.           |                  | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: | APPROVALS DATE             |
| Inspector             |                  | 1 PLACE DIM $\pm 1/16$                     | DRAWN Hans Jannasch 3/5/10 |
| Shop Foreman          |                  | 2 PLACE DIM $\pm .02$                      | ENGINEER                   |
| Engineer              |                  | 3 PLACE DIM $\pm .005$                     | CHECKED                    |
| NEXT ASSY Description | NEXT ASSY Number | ANGLES $\pm 1^\circ$                       | PROJECT NO. 900918         |
|                       |                  |                                            | PROJECT Novel Sensors      |
| Application           |                  |                                            | WEIGHT                     |
|                       |                  | DO NOT SCALE DRAWING                       |                            |
|                       |                  |                                            |                            |

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Moss Landing, CA 95039  
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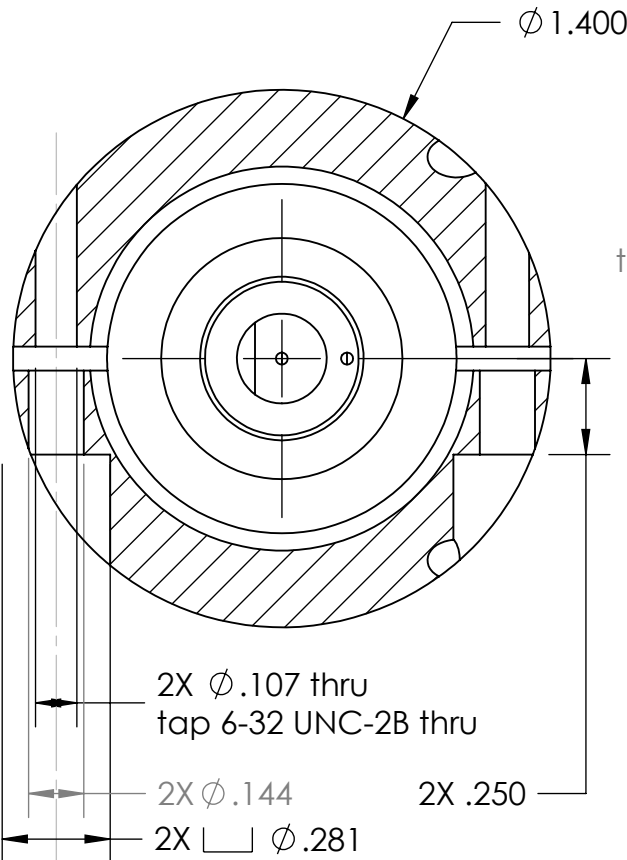
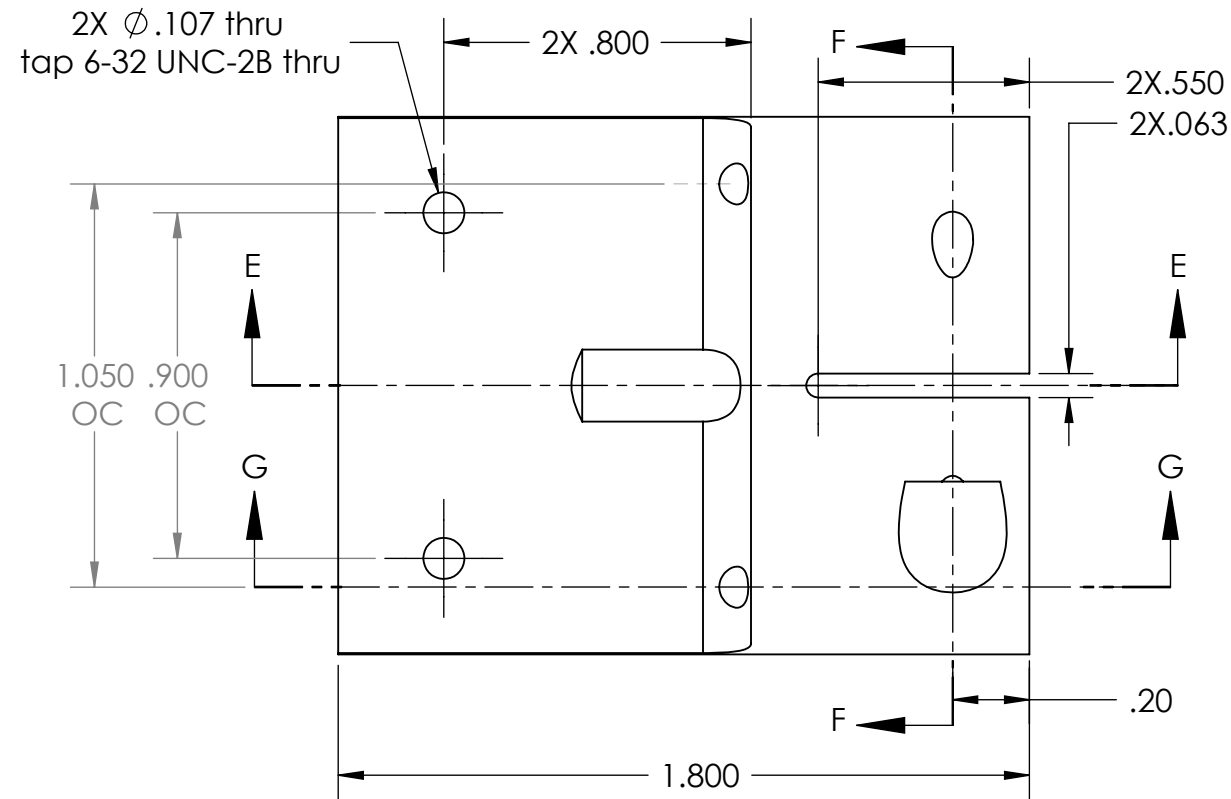
pCO2 Cell - Version 2

SIZE B DWG. NO. 225jaha-pCO2-Ver2 REV. A

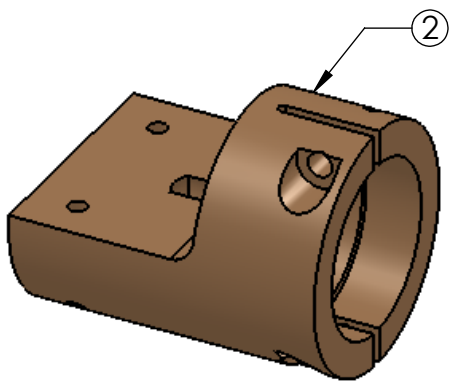
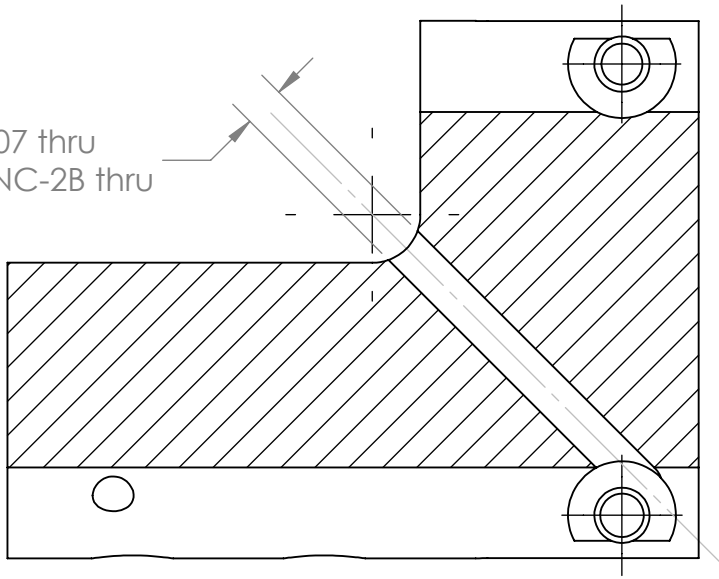
SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 2 OF 3

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

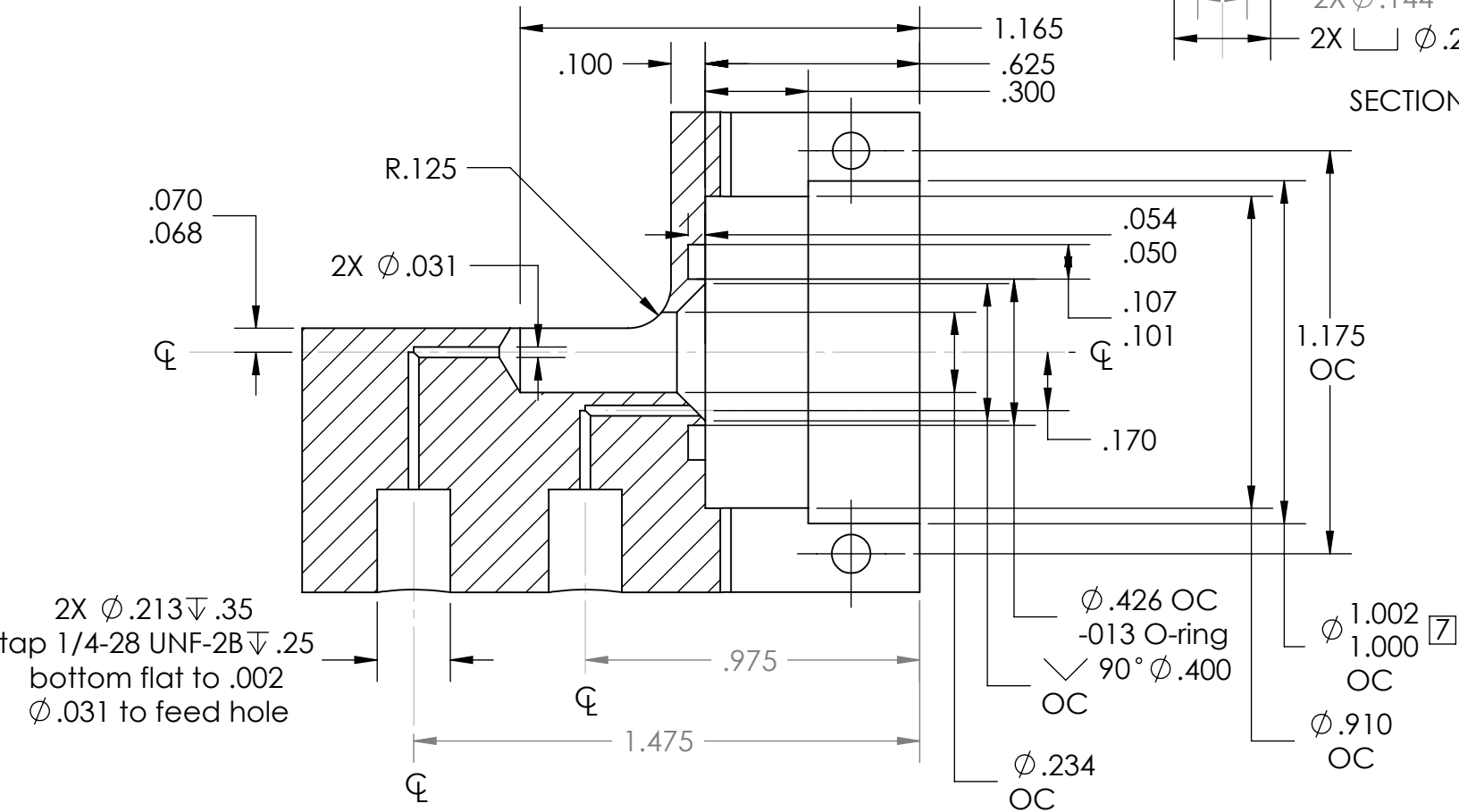


2X  $\phi$ .107 thru  
tap 6-32 UNC-2B thru



SECTION F-F

Note 7:  
The probe tip should fit snugly  
on the  $\phi$  1 OD of the probe.



SECTION E-E

|                          |                     |                                                                                                                                                                                                                                                                                                                                                          |                                   |                      |               |                               |                       |                                                                                                                                                                                                                                                |                               |           |
|--------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|---------------|-------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------|
| 2                        |                     | 1                                                                                                                                                                                                                                                                                                                                                        |                                   | pCO2 tip             |               | PEEK                          |                       |                                                                                                                                                                                                                                                |                               |           |
| Item No.                 |                     | Qty/<br>Assy                                                                                                                                                                                                                                                                                                                                             | Part No.                          | Description          |               | Material Specification        |                       |                                                                                                                                                                                                                                                |                               |           |
| 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° | DRAWN<br>Hans Jannasch 3/5/10 |                       | <div>Monterey Bay Aquarium Research Institute</div> <div>MBARI<br/>7700 Sandholdt RD.<br/>Moss Landing, CA 95039<br/>PH: (831) 775-1700</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<br>CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF<br>MACHINED SURFACES .002 PER INCH.<br>MAX .012 INCHES FOR SINGLE SURFACE. |                                   |                      |               | ENGINEER                      | PROJECT NO.<br>900918 |                                                                                                                                                                                                                                                |                               |           |
| Engineer                 |                     |                                                                                                                                                                                                                                                                                                                                                          |                                   |                      |               | CHECKED                       |                       |                                                                                                                                                                                                                                                | PROJECT<br>Novel Sensors      |           |
| NEXT ASSY<br>Description | NEXT ASSY<br>Number |                                                                                                                                                                                                                                                                                                                                                          |                                   |                      |               |                               |                       |                                                                                                                                                                                                                                                |                               |           |
| Application              |                     | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                     |                                   |                      |               | WEIGHT                        |                       | SIZE<br>B                                                                                                                                                                                                                                      | DWG. NO.<br>225jaha-pCO2-Ver2 | REV.<br>A |
|                          |                     | SCALE<br>1:3                                                                                                                                                                                                                                                                                                                                             | CAD<br>FILE: Tornado/chem/SWfiles | SHEET<br>3 OF 3      |               |                               |                       |                                                                                                                                                                                                                                                |                               |           |