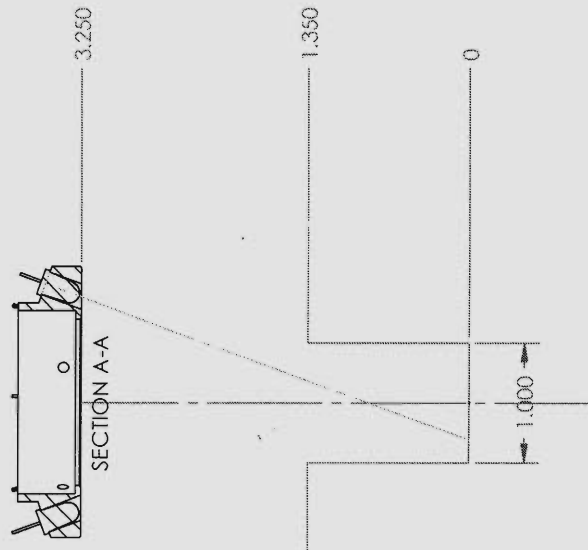
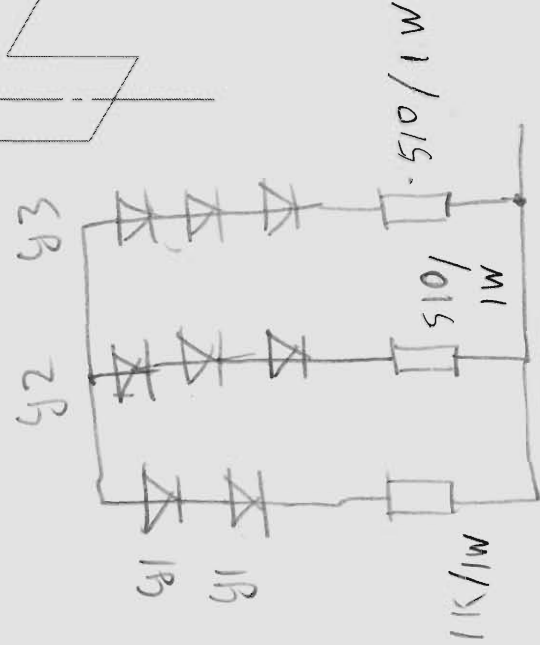
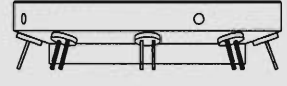
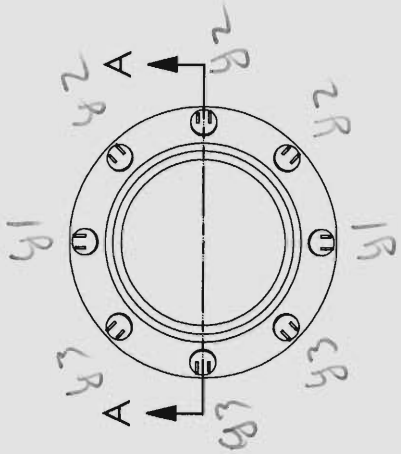
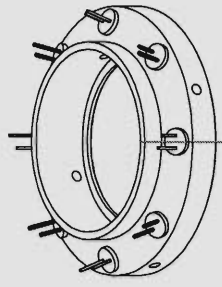


175 290

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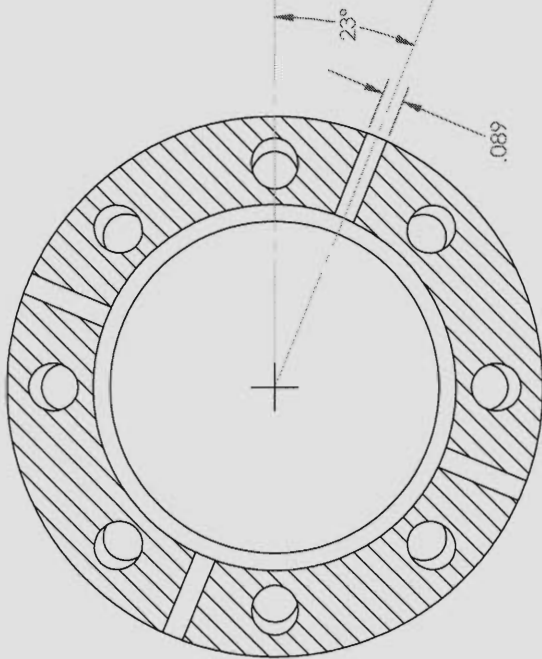
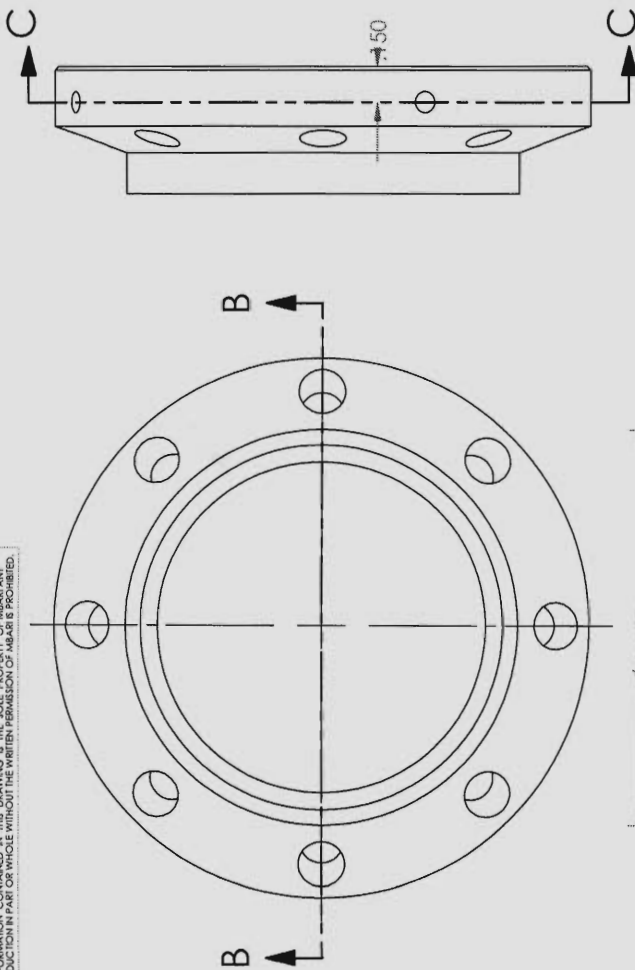
16mA total

| Shop/DC               | UNLESS OTHERWISE SPECIFIED  | INITIAL RELEASE | DATE      | MONITOR | ENGINEER | LAST UPDATE | DATE      | PROJECT NO. | REV | SCALE | SHEET 1 OF 1 |
|-----------------------|-----------------------------|-----------------|-----------|---------|----------|-------------|-----------|-------------|-----|-------|--------------|
| Monitor               | 1. DIMENSIONS ARE IN INCHES | MBARI           | 5/17/2011 | KLIMOV  | KLIMOV   | KLIMOV      | 5/17/2011 | 901027-AS09 | 1   | 1:1   |              |
| Shop Foreman          |                             |                 |           |         |          |             |           |             |     |       |              |
| Engineer              |                             |                 |           |         |          |             |           |             |     |       |              |
| TEST ASST Description |                             |                 |           |         |          |             |           |             |     |       |              |
| Application           |                             |                 |           |         |          |             |           |             |     |       |              |

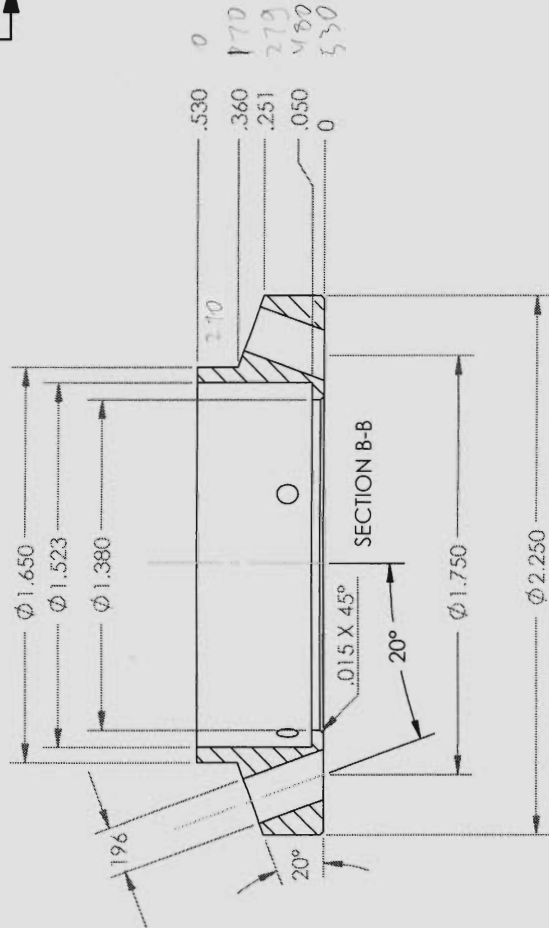
Monterey Bay Aquarium Research Institute  
 MBARI  
 7700 Sandholdt Rd.  
 Moss Landing, CA 95039  
 PH: (831) 775-1700  
 FAX: (831) 775-1701  
 WWW.MBARI.ORG

901027-AS09 - LED Cluster  
 THE DWG NO 901027-AS09  
 SCALE 1:1  
 SHEET 1 OF 1

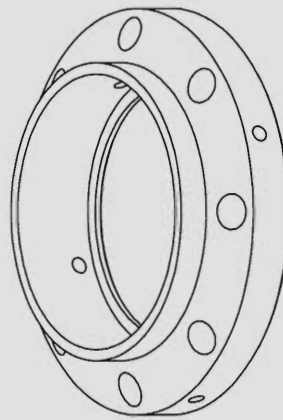
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SECTION C-C



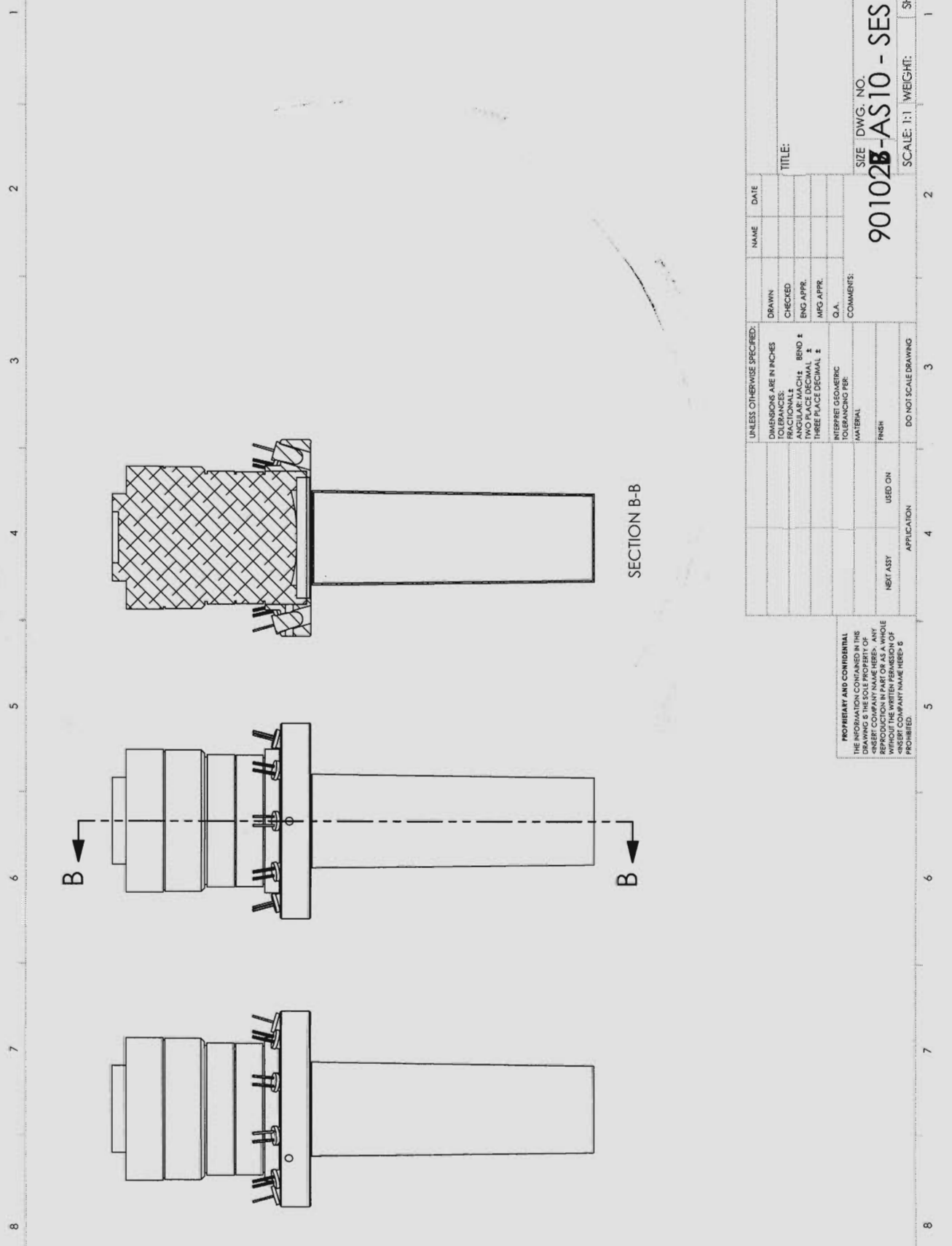
SECTION B-B



|                                              |           |        |           |        |
|----------------------------------------------|-----------|--------|-----------|--------|
| Shop / Q.C.                                  | DATE      | REVIEW | DATE      | REVIEW |
| Inspector                                    | 5/17/2011 | rev 1  | 5/17/2011 | rev 1  |
| Shop Foreman                                 |           |        |           |        |
| Engineer                                     |           |        |           |        |
| NEXT ASST Description                        |           |        |           |        |
| Application                                  |           |        |           |        |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:   |           |        |           |        |
| 1. FRACTIONS TO .005                         |           |        |           |        |
| 2. DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED |           |        |           |        |
| 3. DIMENSIONS ARE HELD AFTER PLATING         |           |        |           |        |
| 4. MACHINED SURFACES TO .005 MAX             |           |        |           |        |
| 5. MACHINED DIAMETERS ON A COMMON            |           |        |           |        |
| 6. PERPENDICULARITY & PARALLELISM OF         |           |        |           |        |
| MAX .015 INCL FOR 90° SURFACE                |           |        |           |        |
| DO NOT SCALE DRAWING                         |           |        |           |        |
| PROJECT NO.                                  | 901027    | SS     | 2         |        |
| PROJECT                                      | SS        |        |           |        |
| SCALE                                        | 21        |        |           |        |
| SHEET                                        | 1         | OF     | 1         |        |

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Moss Landing, CA 95039  
PH: (831) 775-1700

DRAWING NAME AND FILE NAME  
901027-100 - Illuminator Ring  
REV. 1  
REV. 1  
REV. 1

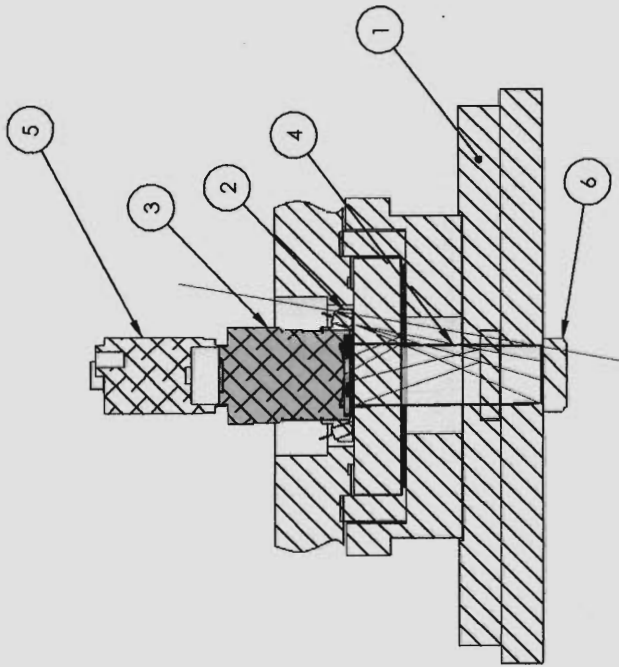
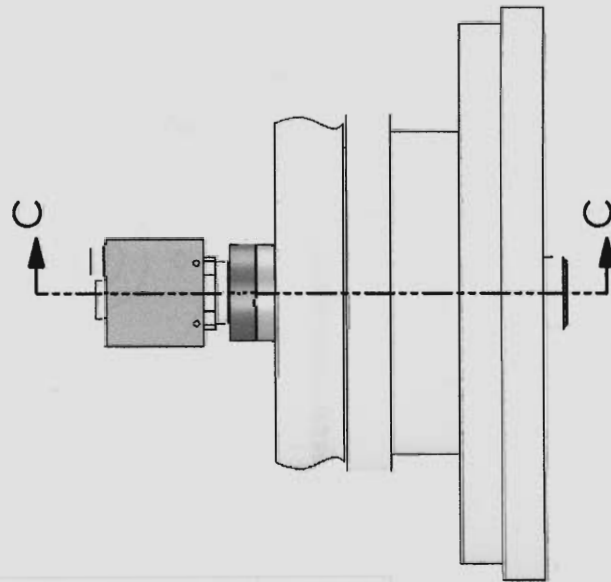


| UNLESS OTHERWISE SPECIFIED:                                                                                                                                                                                                                                                                                                                                                                                                                 |  | NAME      | DATE    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|---------|
| DIMENSIONS ARE IN INCHES                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |         |
| TOLERANCES:                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DRAWN     | CHECKED |
| FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 |  |           |         |
| ANGULAR: MAXIMUM                                                                                                                                                                                                                                                                                                                                                                                                                            |  | ENGINEER  |         |
| TWO PLACE DECIMAL                                                                                                                                                                                                                                                                                                                                                                                                                           |  | ENG APPR. |         |
| THREE PLACE DECIMAL                                                                                                                                                                                                                                                                                                                                                                                                                         |  | MRG APPR. |         |
| INTERPRET GEOMETRIC TOLERANCING PER:                                                                                                                                                                                                                                                                                                                                                                                                        |  | O.A.      |         |
| MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | COMMENTS: |         |
| FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |           |         |
| NEXT ASSY                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | USED ON   |         |
| APPLICATION                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |         |
| DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |         |

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SIZE DWG. NO. REV  
90102B-AS10 - SES Camera  
SCALE: 1:1 WEIGHT: SHEET 1 OF 1

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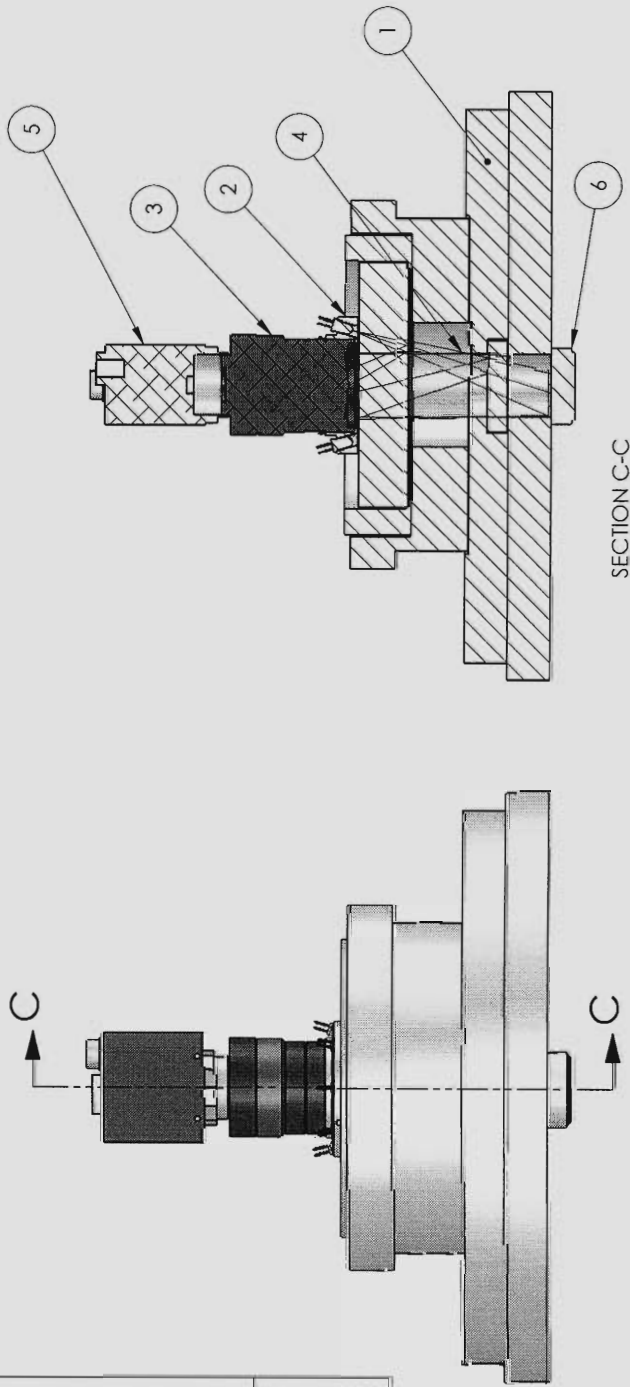


SECTION C-C

| ITEM NO. | PART NUMBER                    | DESCRIPTION | QTY. |
|----------|--------------------------------|-------------|------|
| 1        | 901027-101 - Optical Thickness |             | 1    |
| 2        | 901027-AS09 - LED Cluster      |             | 1    |
| 3        | Lens Computer 11A              |             | 1    |
| 4        | Lens optical envelope          |             | 1    |
| 5        | Camera ProSilica GC1380        |             | 1    |
| 6        | Diffuser-Slide                 |             | 1    |
| 7        | Camera Housing                 |             | 1    |

|                      |              |                             |                                  |                 |          |            |                          |                                                |  |
|----------------------|--------------|-----------------------------|----------------------------------|-----------------|----------|------------|--------------------------|------------------------------------------------|--|
| Shop / Q.C.          |              | UNLESS OTHERWISE SPECIFIED  |                                  | INITIAL RELEASE |          | DATE       |                          | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE       |  |
| Inspector            | Shop Foreman | 1. DIMENSIONS ARE IN INCHES | 2. DIMENSIONS ARE IN MILLIMETERS | DESIGN          | ENGINEER | 08/16/2011 | MBARI                    | 1775 Sandhills RD.<br>MARINA DEL REY, CA 90639 |  |
| Engineer             | Application  | DO NOT SCALE DRAWING        |                                  | PROJECT NO.     | PROJECT  | 901027     | 901027-AS10 - SES Camera | SEE DWG. NO. 901027-AS10                       |  |
| NOT ASST Description |              | SCALE 1:2                   |                                  | SHEET 1 OF 1    |          |            |                          |                                                |  |

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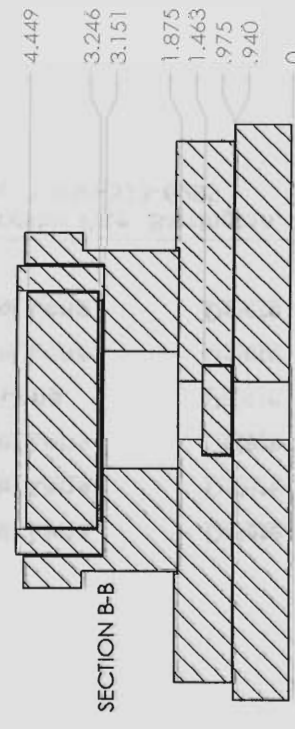
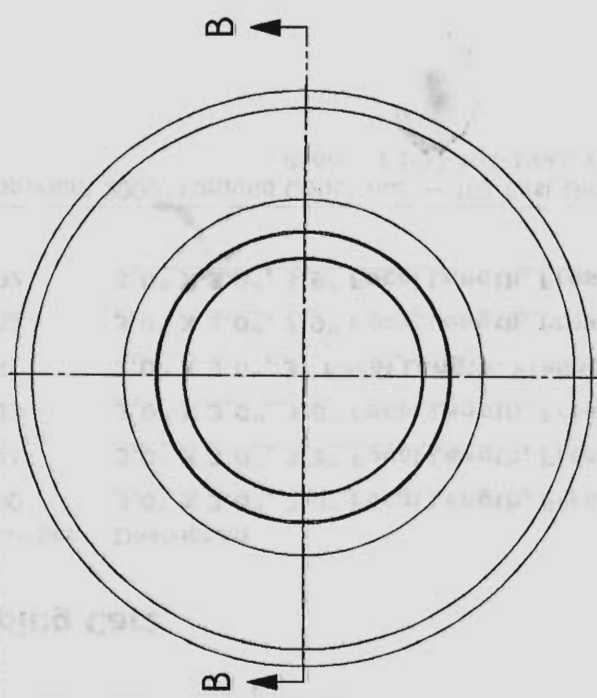


SECTION C-C

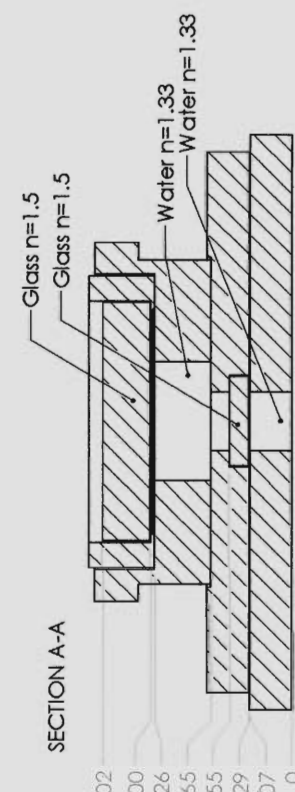
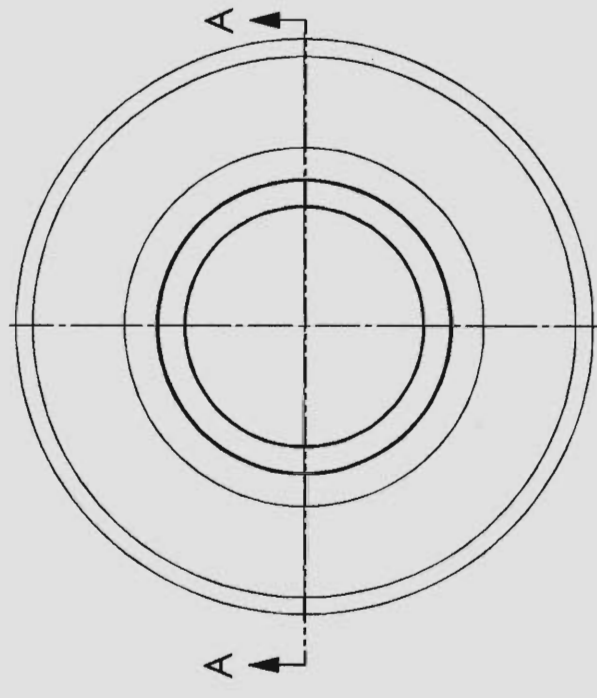
| ITEM NO. | PART NUMBER                    | DESCRIPTION | QTY. |
|----------|--------------------------------|-------------|------|
| 1        | 901027-101 - Optical Thickness |             | 1    |
| 2        | 901027-AS09 - LED Cluster      |             | 1    |
| 3        | Lens Computer 11A              |             | 1    |
| 4        | Lens optical envelope          |             | 1    |
| 5        | Camera ProSilica GC1380        |             | 1    |
| 6        | 901027-102 - Diffuser-Slide    |             | 1    |

|                                                                                     |                        |                                                                                                                   |                                     |
|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| DATE<br>05/16/2011                                                                  |                        | MBARI<br>700 Sandhold Rd.<br>Marine Laboratory<br>P.O. Box 24700<br>San Francisco, CA 94124<br>PH: (415) 775-1700 |                                     |
| DESIGNED BY<br>ENGINEER                                                             | CHECKED BY<br>ENGINEER | LAST UPDATE<br>05/16/2011                                                                                         | PROJECT<br>901027-AS10 - SES Camera |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>1 DIMENSION ARE IN INCHES |                        | PROJECTING<br>05/16/2011                                                                                          | SCALE<br>1:2                        |
| DO NOT SCALE DRAWING                                                                |                        | PROJECT<br>901027-AS10                                                                                            | SHEET 12 OF 1                       |

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| ITEM NO. | PART NUMBER                | DESCRIPTION | QTY. |
|----------|----------------------------|-------------|------|
| 1        | 901027-101 - Path Geometry |             | 1    |



| ITEM NO. | PART NUMBER                    | DESCRIPTION | QTY. |
|----------|--------------------------------|-------------|------|
| 1        | 901027-101 - Optical Thickness |             | 1    |

DATE: 06/16/2011  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
PROJECT NO.: 901027  
PROJECT: 901027-101 - Optical Thickness  
SCALE: 1:2  
SHEET 1 OF 1



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FAX: (831) 775-1700