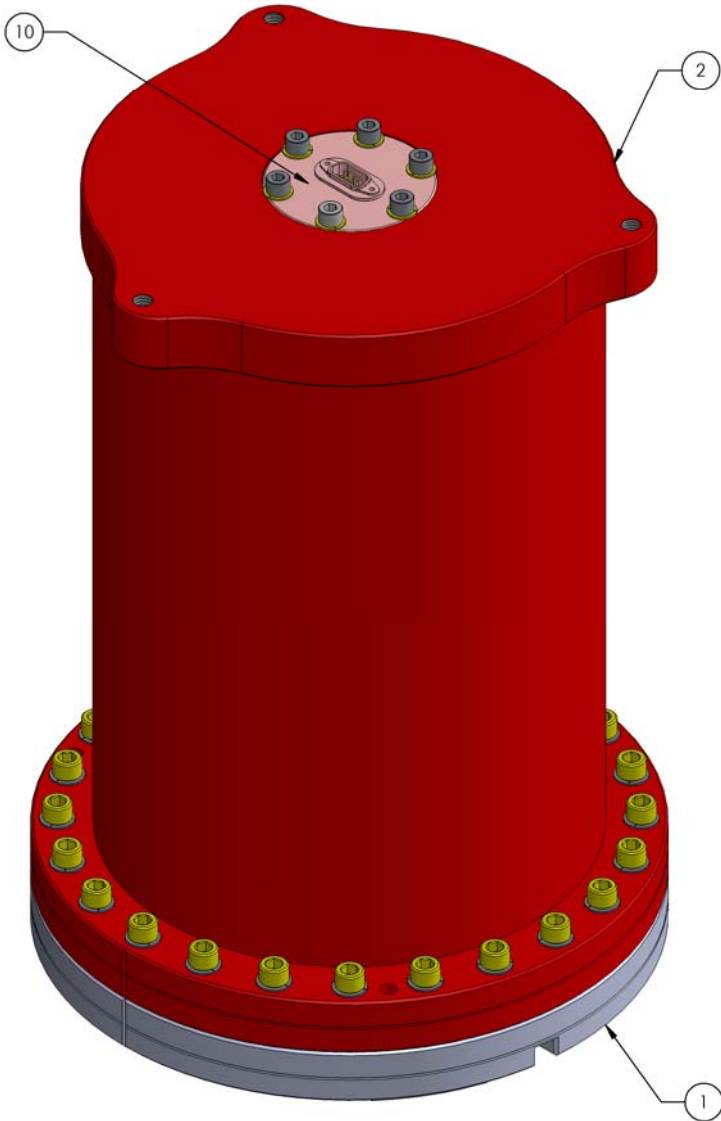


- NOTES CONTINUED:
- VENDOR REFERENCES ARE PROVIDED AS EXAMPLES OF PARTS MEETING ALL REQUIRED SPECIFICATIONS. EQUIVALENTS ARE ALWAYS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
 - ELECTRONIC COMPONENTS IN MODELS AND BOMS ARE FOR LAYOUT AND ASSEMBLY PURPOSES ONLY AND NOT TO BE USED FOR PURCHASING.
 - REFER TO LIGO DOC T0900592 FOR DETAILED INSTRUCTION OF THE POD ASSEMBLY PROCEDURE. INSTRUCTIONS AND PROCEDURES MUST BE CAREFULLY FOLLOWED.
 - REFER TO LIGO DOC E0900357 FOR THE INSTALLATION PROCEDURE OF THE POD ON THE BSC ISI.
 - ASSEMBLY TO BE ADJUSTED USING SHIMS IN TABLE 1 ACCORDING TO PROCEDURE T0900592
 - REFER TO EACH INDIVIDUAL PART DRAWINGS FOR LIGO MACHINING AND WELDING SPECIFICATIONS.



REV.	DATE	DCN #	DRAWING TREE #
V1	06 FEB 2010	E0900444-X0	E1000025
V2	23 MAR 2010	E0900444-V1	E1000025
V3	10 MAY 2011	E0900444-V2	E1000025



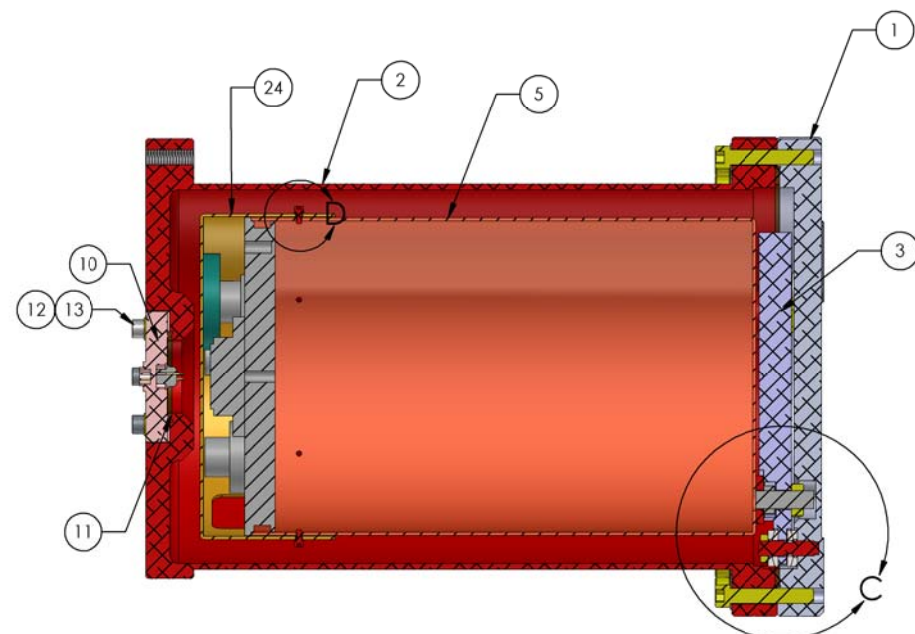
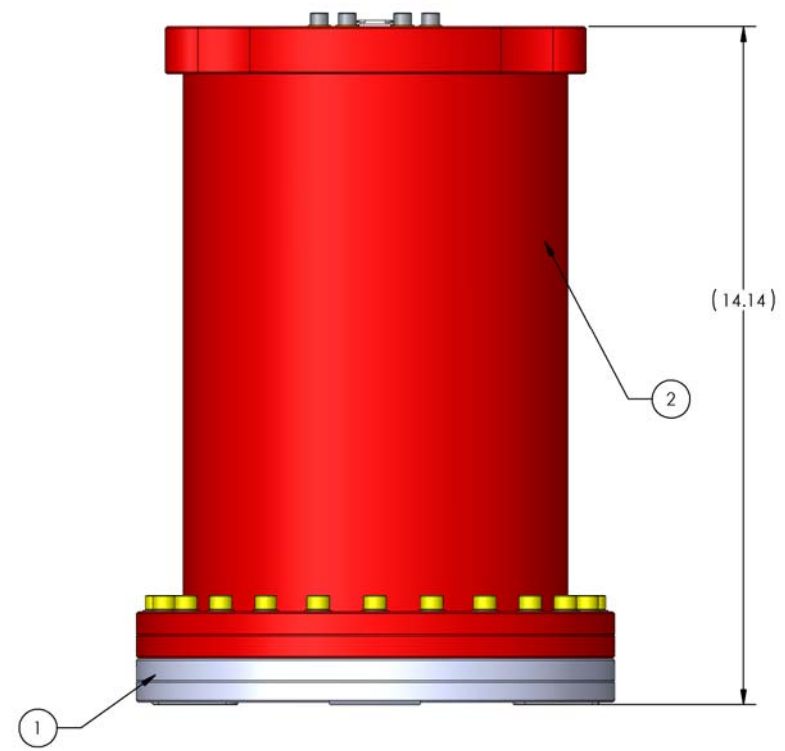
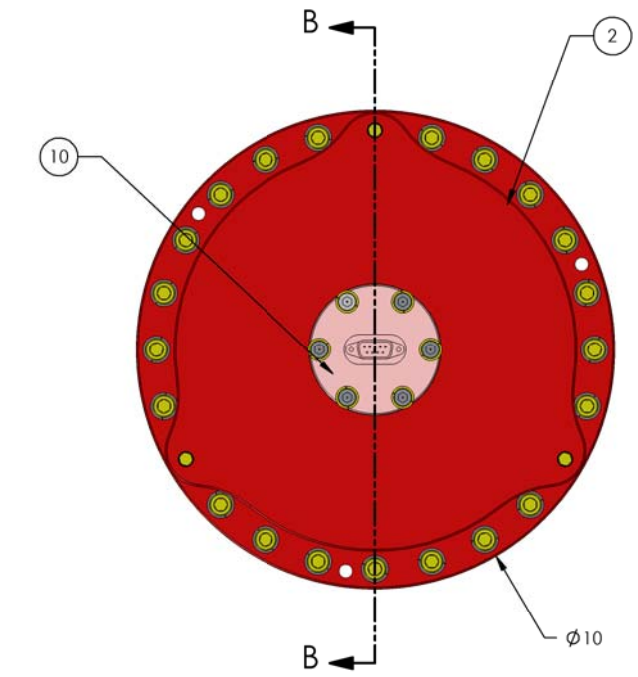
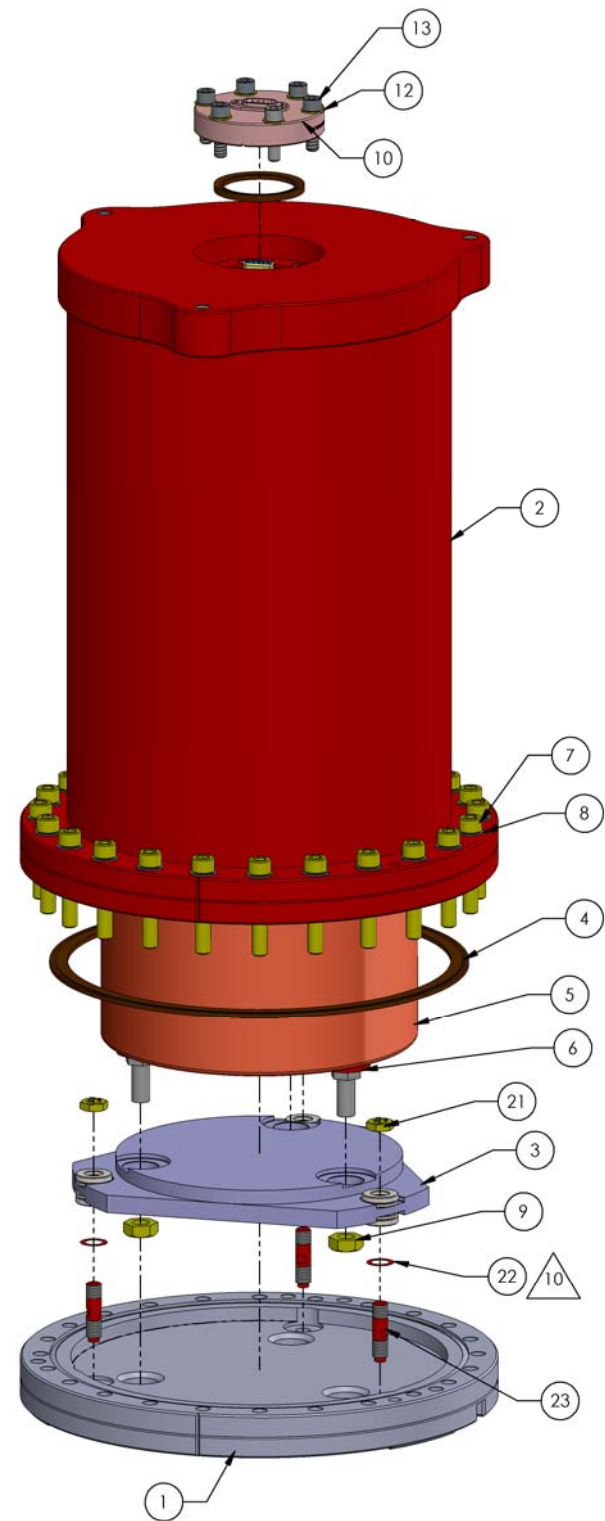
TABLE 1 - SHIM THICKNESSES FOR ITEM #17

MC MASTER P/N	THICKNESS	REQ
98126A123	0.001	1 PACK OF 10 FOR EVERY 3 PODS
98126A210	0.003	1 PACK OF 10 FOR EVERY 3 PODS
98126A291	0.005	1 PACK OF 10 FOR EVERY 3 PODS

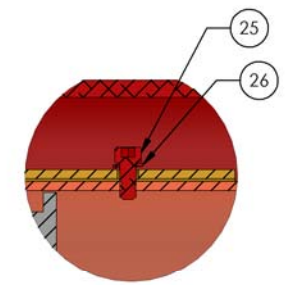
26	MC MASTER 92146A530	Spring Lock Washer - Screw 4"	304, 316 OR 302 SSTL	6
25	MC MASTER 92196A171	Screw 4-48 Length 1/4"	304, 316 OR 302 SSTL	6
24	D1001535	Top Hat MuMetal - Magnetically Shielded	Material <not specified>	1
23	M8 Modified Stud	Misumi Custom P/N FWBS8_32_E12_F8_SC14 (Ligo special)	304 SSTL	3
22	McMaster_97022A331	ShimWasher 3/8" ID, 5/8" OD. x .005 thk	316 SSTL	6
21	McMaster_90710A120	M8x1.25 Hex Nut x 4 mm Thk	18-8 SSTL	3
20	Jergens Inc_41503	Spherical Washer 5/16 bolt size convex half	Plain Carbon Steel	1
19	Jergens Inc_41303	Spherical Washer 5/16 bolt size concave half	Plain Carbon Steel	1
18	Jergens Inc_41103	Spherical Washer Set for 8mm Screw	Carbon Steel	6
17	N/A (pre order)	DE19977-47_ITT_CANNON_90deg_BackShell for 9 pin SUB-D	Material <not specified>	1
16	N/A (pre order)	DE44994_ITT_CANNON_Metal_Connector_Backshell	Material <not specified>	1
15	see Digikey	9-pin D-connector	Material <not specified>	1
14	N/A (pre order)	D-Sub 9 Pin Connector	N/A	1
13	U-C Components_C-2814-A	Screw SHCS 1/4-28 UNF-2A x 7/8 lg. vented Ag plated	18-8 SSTL	6
12	UC_COMPONENTS_WFV-25	Vented Washer, .255 ID X .468 OD X .032 THK #1/4	18-8 SSTL	6
11	Nor-Cal_G-275	CF Flange 2 3/4 Nominal od Gasket	COPPER	1
10	Accu-Glass_100200	9 Pin, D-Type Feedthrough on a 2.75 CF Flange, model 9D-275	304 SSTL	1
9	McMaster_91841A235	Hex Nut 3/8-24 UNF-2B x .25 thk	18-8 SSTL	3
8	UC_COMPONENTS_WFV-31	Washer Vented, .328 ID X .562 OD X .032 THK #5/16	18-8 SSTL	24
7	U-C Components_C-3128-NA	Screw SHCS 5/16-24 UNF-2A x 1 3/4 lg Ag plated	18-8 SSTL	24
6	Mc_Master 98125A031	Precision Washer 0.17" to 0.2" thick	304, 316 OR 302 SSTL	3
5	D1001527	GS13 Cover - Mu Metal	Material <not specified>	1
4	Nor-Cal_G-1000	CF Flange 10 inch Nominal od Gasket	COPPER	1
3	D0900858	GS13 Pod Interposer Plate	6061-T6 Al	1
2	D0900859	GS13 Pod Top Hat	304 SSTL	1
1	D0900860	Flange Pod Base GS-13	Material <not specified>	1
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		
DIMENSIONS ARE IN INCHES TOLERANCES: .XX ± N/A .XXX ± N/A ANGULAR ± N/A *	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, R.02 MIN. 3. DO NOT SCALE FROM DRAWING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.	
	MATERIAL	FINISH
	N/A	N/A μinch

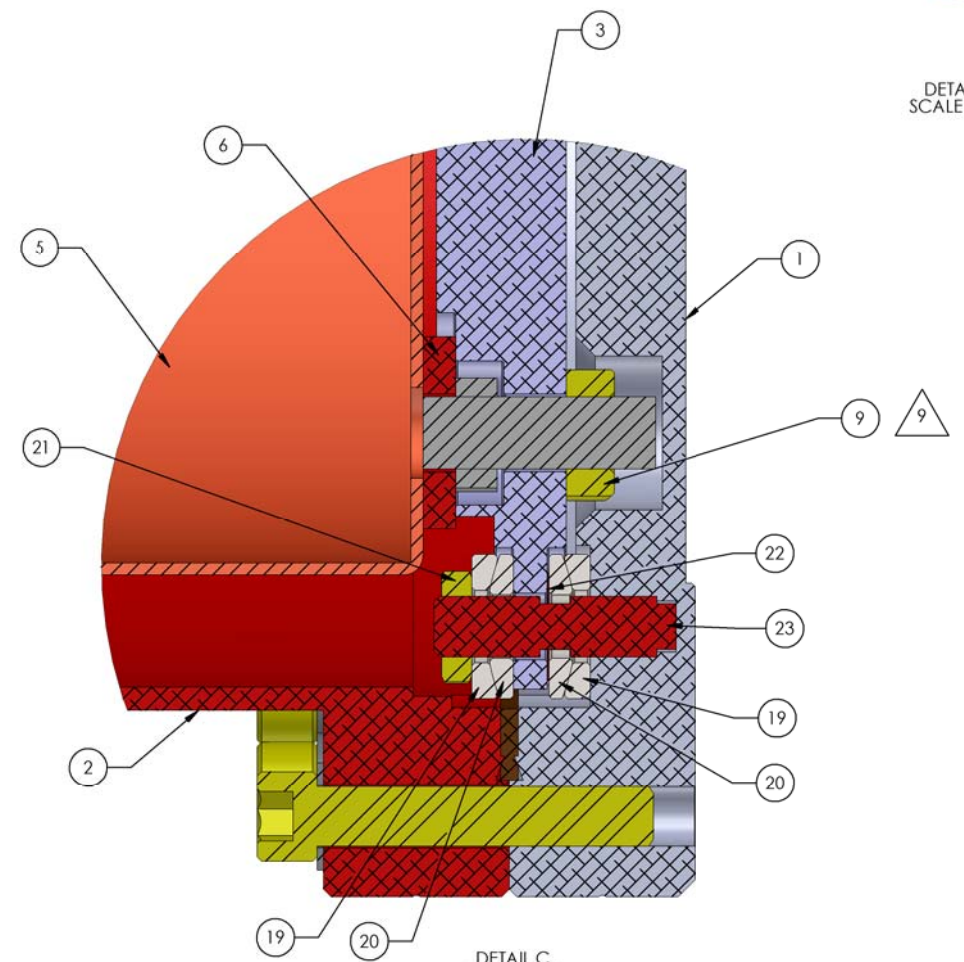
 CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME GS-13 Pod Assembly			
SYSTEM ADVANCED LIGO	SUB-SYSTEM SEI	DESIGNER S.BARNUM	04 FEB 2010	SIZE D	DWG. NO. D0900857
NEXT ASSY D0902777 and D0902778		DRAFTER J.HILLARD	04 FEB 2010	REV. v2	
		CHECKER F.MATCHARD	06 FEB 2010		
		APPROVAL K.MASON	06 FEB 2010	SCALE: 2:3	PROJECTION: 
		SHEET 1 OF 2			



SECTION B-B
SCALE 1 : 2



DETAIL D
SCALE 1.5 : 1



DETAIL C
SCALE 2 : 1