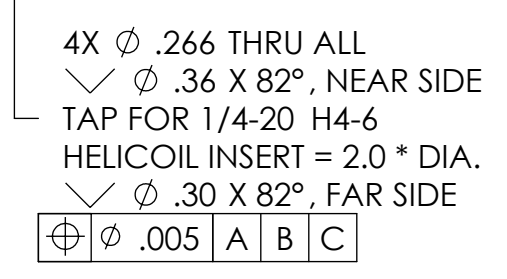
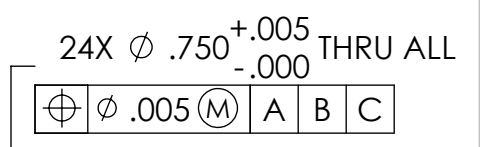
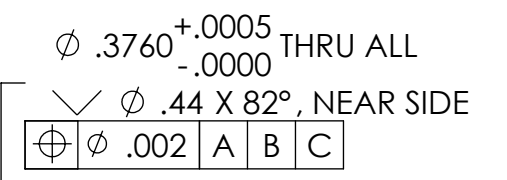
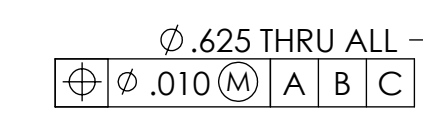
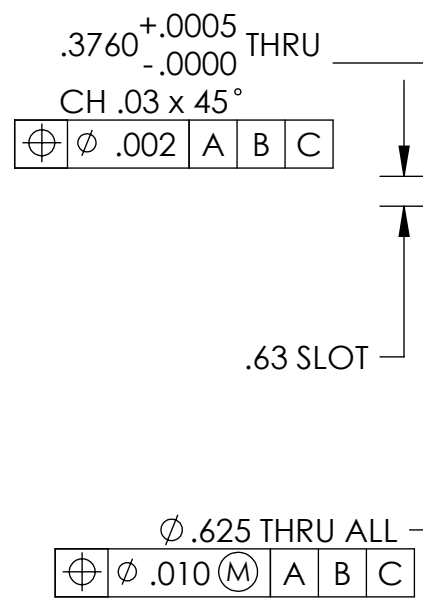
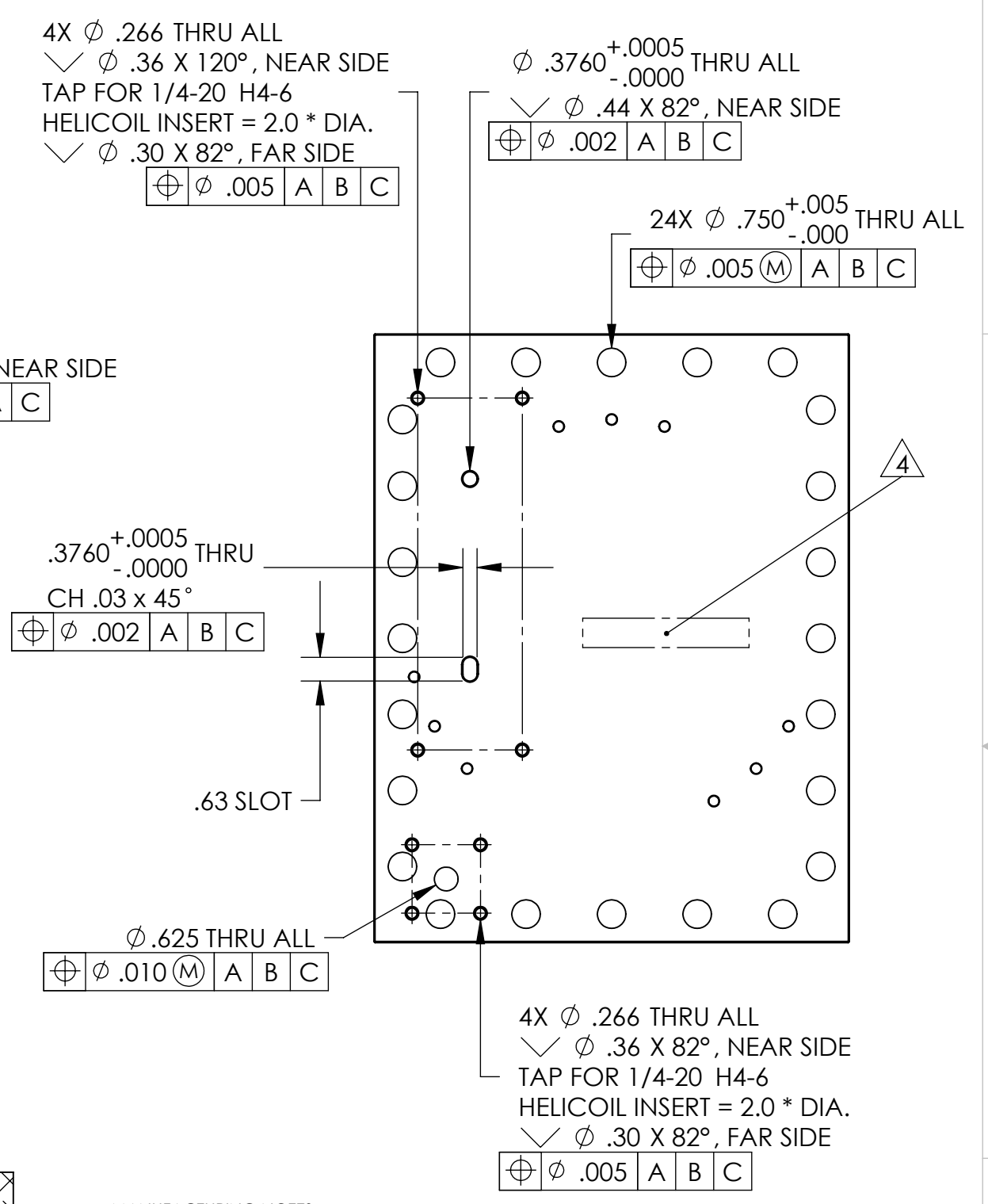
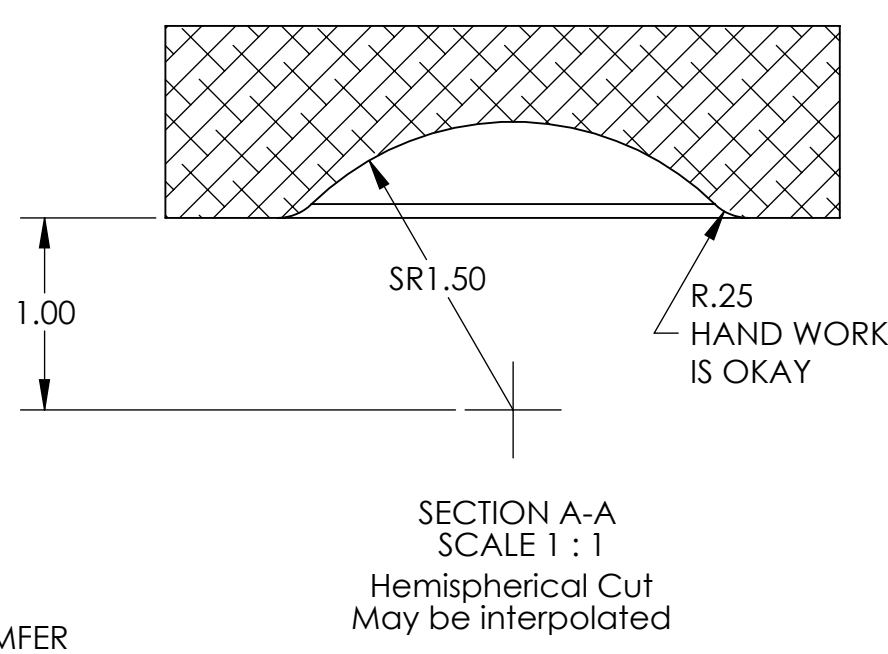
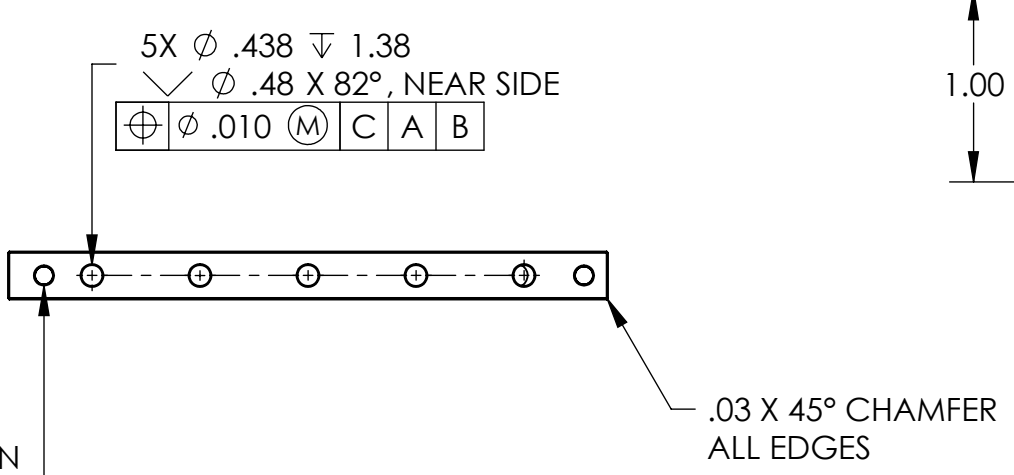
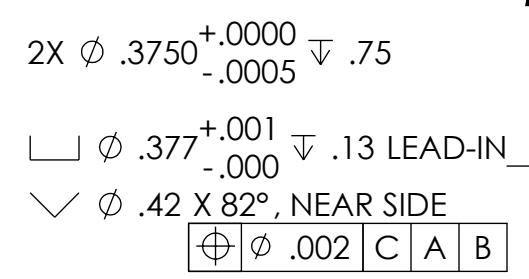
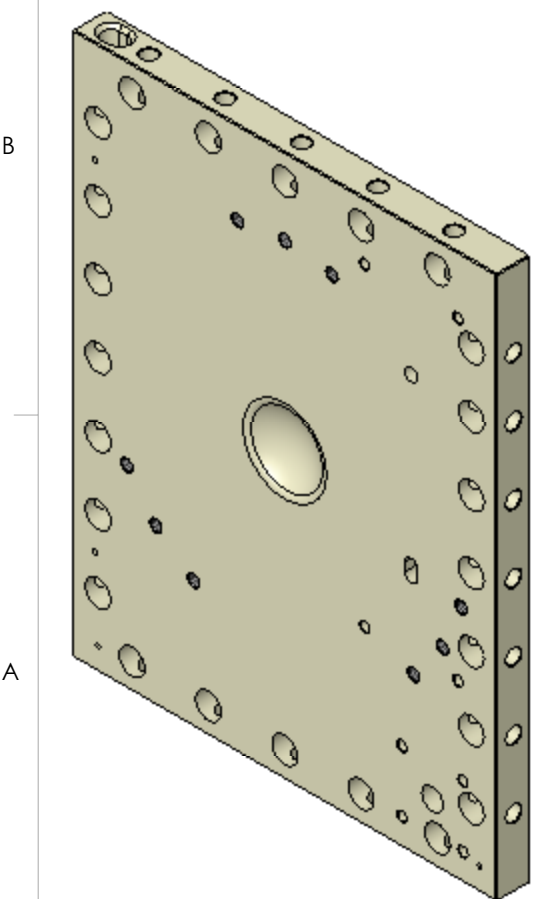
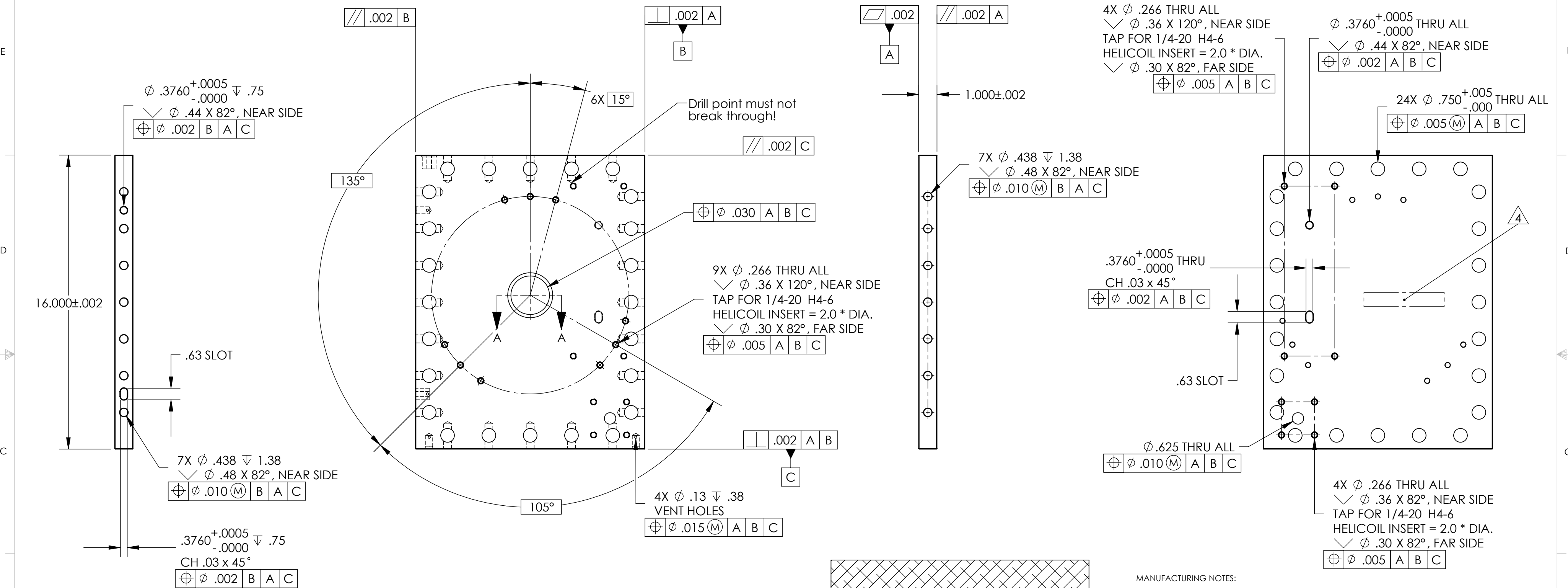
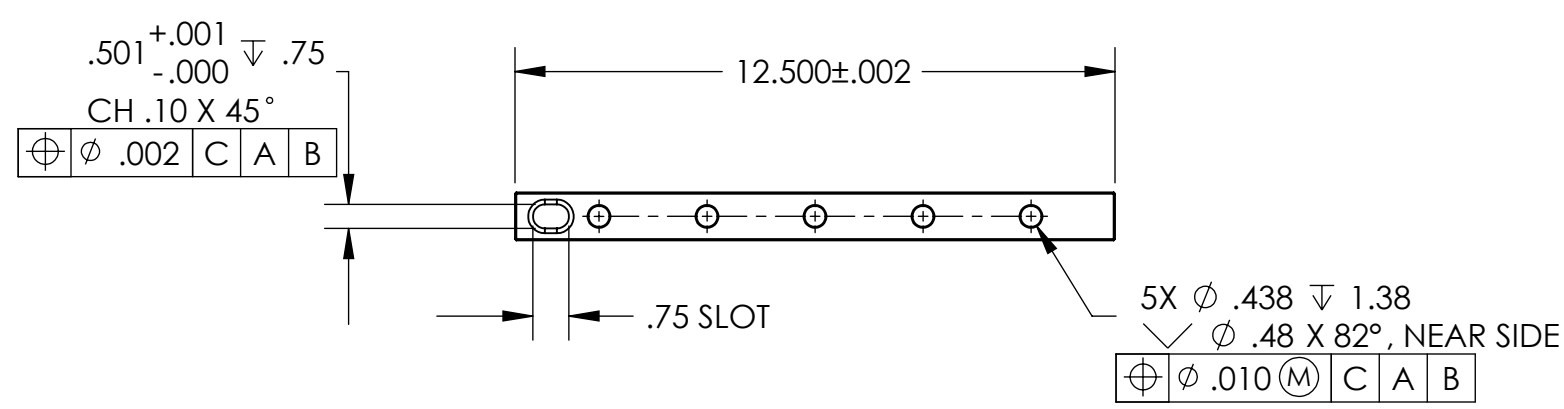


REVISION HISTORY				
REV	DATE	ECO	APPROVAL	DESCRIPTION
V1 / D	27 Jun 2007	1066	D. Senders	Release for Enhanced LIGO.
V2	17 Apr 2009		A. Stein	Release for Advanced LIGO. Moved 1x 1/4-20 Heli-Coil, for better wrench access. Added chamfers and c/sinks.



- MANUFACTURING NOTES:
- MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. ABRASIVE REMOVAL TECHNIQUES (OTHER THAN DRESSED BLANCHARD GRINDING) ARE NOT ACCEPTABLE.
 - ALL MACHINING FLUIDS MUST BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE, AND SILICONE, SUCH AS CINCINNATI MILACRON CIMTECH 410.
 - THOROUGHLY CLEAN PART TO REMOVE ALL OIL, GREASE, DIRT, AND CHIPS.
 - WHERE INDICATED, MECHANICALLY SCRIBE, STAMP, OR ENGRAVE THE FOLLOWING INFORMATION AS SHOWN BELOW: **PART NUMBER-REVISION** (AND **TYPE** IF INDICATED), FOLLOWED ON THE NEXT LINE WITH A UNIQUE 3-DIGIT **SERIAL NUMBER** STARTING AT 001 FOR THE FIRST PART AND INCREMENTING THEREAFTER. USE 0.38" TALL CHARACTERS UNLESS PART SIZE DICTATES SMALLER.
D071055-V2
S/N - ###
 - DO NOT INSTALL HELI-COILS UNTIL POST-CLEANING.
- POST-MANUFACTURING NOTES:
- CLEAN TO LIGO STANDARDS, CLASS A (PER E0900047 AND E960022).
 - INSTALL CLASS-A CLEAN HELI-COILS. BREAK OFF AND REMOVE TANGS. CHECK THAT END OF EACH INSERT REMAINS ENGAGED IN THREAD AFTER TANG REMOVAL.

HELI-COIL TABLE (See Note 5)				
Item No.	Thread Size	Material	Heli-Coil P/N 1185...	Qty.
1	1/4"-20 x .50"	Nitronic 60	-4EN500	17

APPROVALS	DATE
ENGINEERING (HPD): D. Senders	5/22/2007
QUALITY (HPD): C. Danaher	5/22/2007
MATERIAL:	6061-T6 Al
FINISH:	None
MASS:	17.9 lbs

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES:
.XX ±.015 .XXX ±.005
ANG TOL: ± 1" SURFACE ROUGHNESS:
REMOVE ALL SHARP EDGES.
LEAVE .005 X 45° MIN CHAMFER,
OR .005 MIN RADIUS.

THIS PRINT & THE EMBEDDED CAD MODEL ARE THE DOCUMENTATION OF RECORD, UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS IN THE MODEL ARE BASIC, WITH TOLERANCES GIVEN BY:

ORIGINAL DESIGN BY: **High Precision Devices**

1448 Valtec Lane, Suite C, Boulder, Colorado 80301
Phone: (303) 447-2558 Fax: (303) 447-2548 Web Site: www.hpd-online.com

DESCRIPTION: **Rib, Rad, GS-13 Out 1**

P/N: **D071055** CONFIG: -

CAD FILE NAME: D071055_Rib-Rad-GS-13_Out_1

PROJECT: HAM ISI, Advanced LIGO

SIZE SCALE: **1:4** DRAWN BY: **Dave Senders (HPD)** REV **V2**

SHEET **1** OF **1** DATE PRINTED: **4/17/2009**