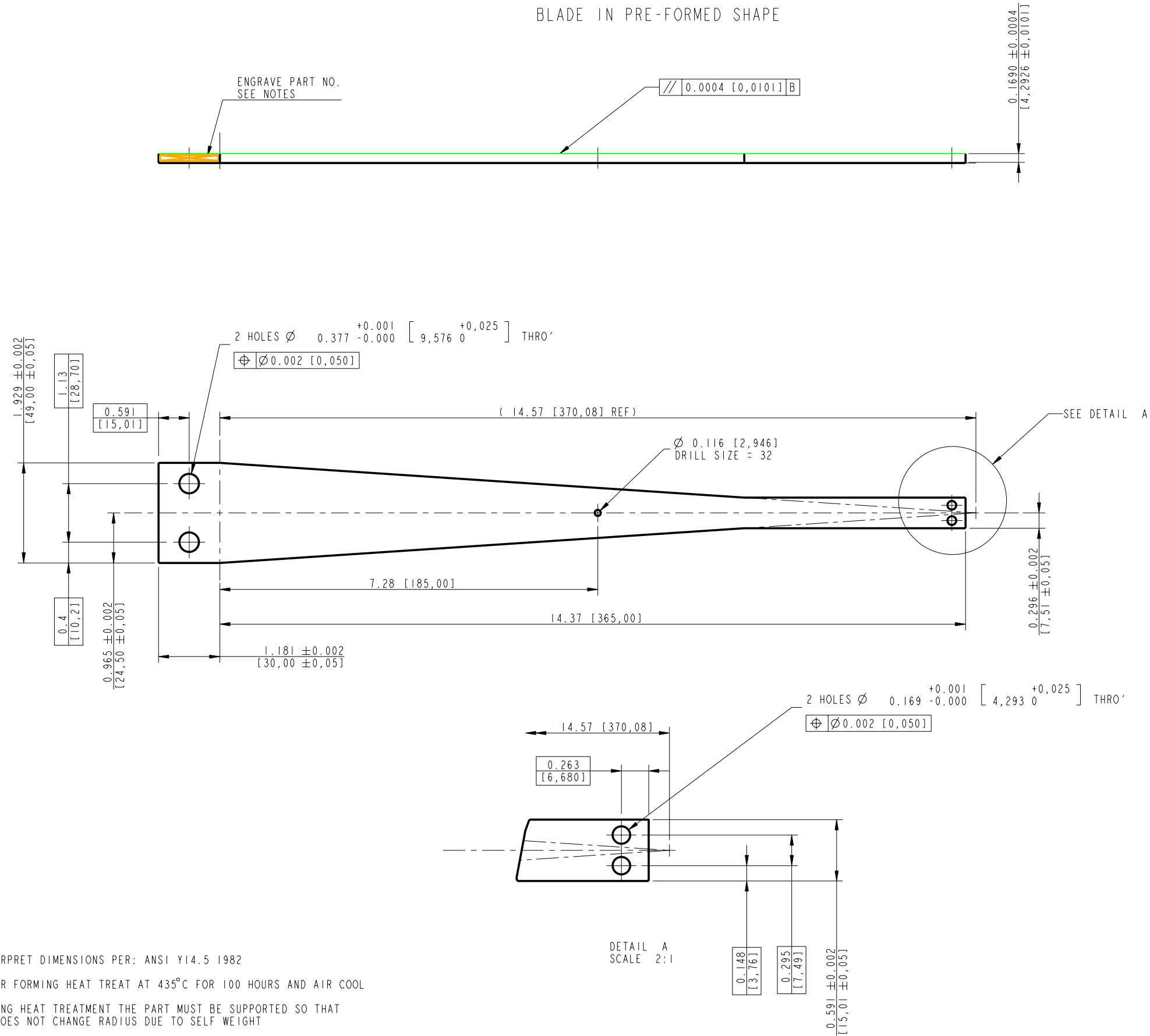


BLADE IN PRE-FORMED SHAPE



NOTES

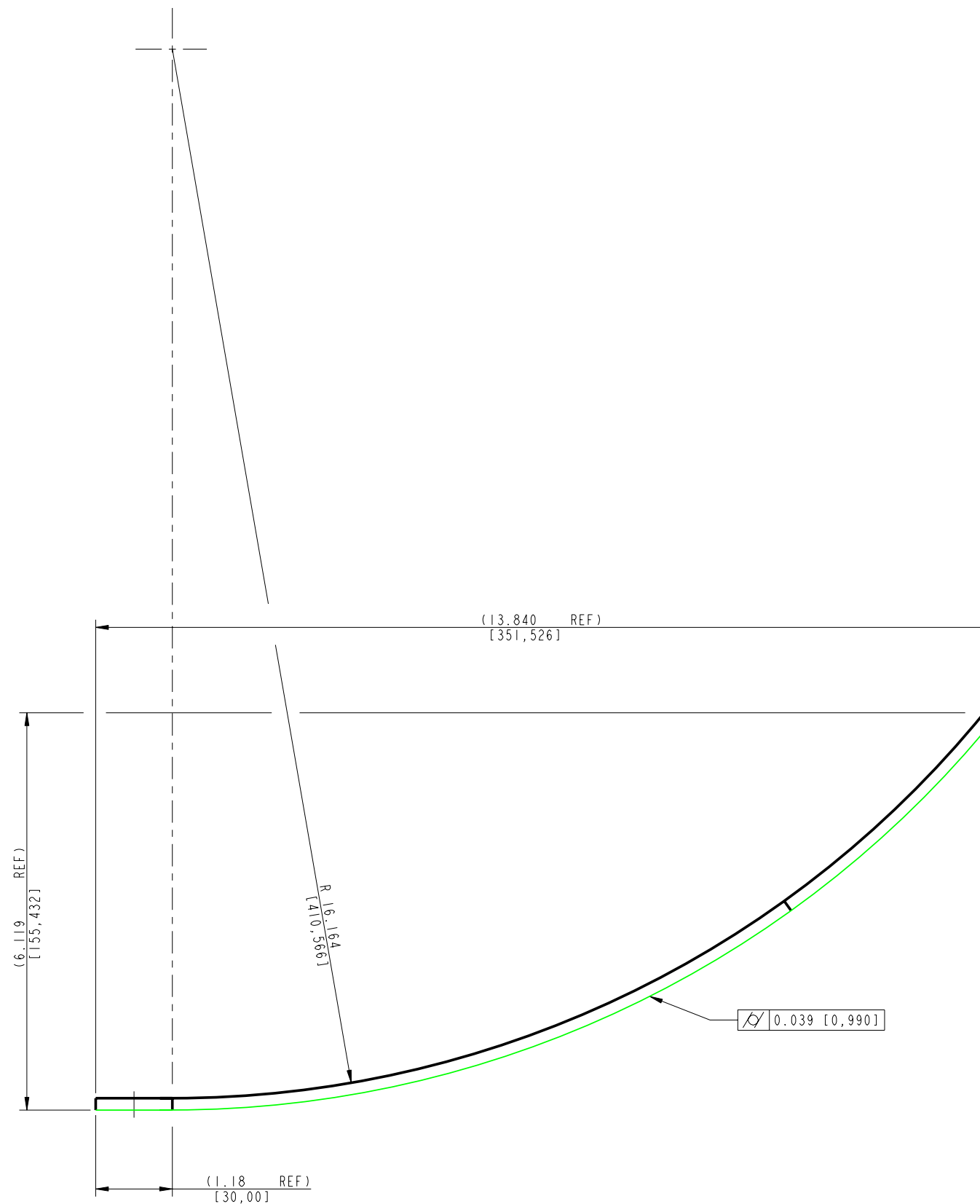
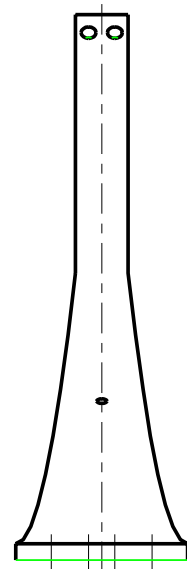
1. INTERPRET DIMENSIONS PER: ANSI Y14.5 1982
2. AFTER FORMING HEAT TREAT AT 435°C FOR 100 HOURS AND AIR COOL
3. DURING HEAT TREATMENT THE PART MUST BE SUPPORTED SO THAT IT DOES NOT CHANGE RADIUS DUE TO SELF WEIGHT

NOTES: (UNLESS OTHERWISE SPECIFIED):		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY MITRE RESEARCH LABORATORIES	
1. REMOVE ALL SHARP EDGES. R.02 MIN.	2. DO NOT SCALE FROM DRAWING.	DIMENSIONS ARE IN INCHES (mm)	TOLERANCES:
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SODIUM, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTICH 410 (STAINLESS STEEL)	4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON MATED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07* HIGH CHARACTERS. EXAMPLE: 000100 - 001 - A VIBRATORY TOOL MAY BE USED.	1. XX ±0.01 (0.250 mm) X .XX ±0.005 ANGULAR ±0.250 °	SYSTEM: ADVANCED LIGO SUB-SYSTEM: SJS
MATERIAL: MARAGING STEEL 250	FINISH: CLEAN AND DEGREASED σ_{max} (µm) Ra = 32 (0.8)	NAME: DATE:	PART NAME: UPPER INTERMEDIATE MASS
DRAWN: J. WILNET 10/06/04	CHECKED: DATE:	APPROVED: DATE:	PART NAME: BOTTOM BLADE SPRINGS CONTROLS PROTOTYPE
SCALE: 1:1	PROJECTION: 1st ANGLE	DWG. NO. D040296	REV. 04
		SHEET 1 OF 2	

INTERNAL NAME: TD-1039-990

FOR INTERNAL USE ONLY:

E=186Gpa
 ALPHA=1.35
 TOTAL SUSP MASS = 39 KG
 P MASS = 19.2 KG
 PREDICTED:
 F = 1.804Hz
 1st INTERNAL MODE = 115.5Hz
 σ MAX = 983MPa
 REF: COMMUNICATION WITH BLADE
 COMMITTEE



NOTES: (UNLESS OTHERWISE SPECIFIED):		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY FOR: GLASGOW UNIVERSITY GEO 400 GROUP FRIEDRICH-AEPPLER LABORATORIES	
1. REMOVE ALL SHARP EDGES. R 0.02 MIN.	2. DO NOT SCALE FROM DRAWING.	DIMENSIONS ARE IN INCHES (mm) TOLERANCES: X.XX ±0.01 (0.250 mm) X.XXX ±0.005 ANGULAR ±0.250 °	SYSTEM: ADVANCED LIGO
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SOLIDS, CHROMIUM AND SILICONE, SUCH AS CINCINNATI MILACRON'S CINTENCH 410 (STAINLESS STEEL).	4. SCRIBE, ENGRAVE OR STAMP DRAWING PART NUMBER ON MATED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY. USE 07° HIGH CHARACTERS. EXAMPLE: 001001 - A VIBRATORY TOOL MAY BE USED.	MATERIAL: MARAGING STEEL 250 FINISH: CLEAN AND DEGREASED σ _{UT} (ksi) Re = 33 (0.8)	SUB-SYSTEM: SUS NEXT ASSY: UPPER INTERMEDIATE MASS
		NAME: _____ DATE: _____	PART NAME: BOTTOM BLADE SPRINGS
		DRAWN: J. WILNET 10/06/04	CONTROL: PROTOTYPE
		CHECKED: _____ DATE: _____	DWG. NO.: D040296
		APPROVED: _____ DATE: _____	SCALE: 1:1 PROJECTION: SHEET 2 OF 2