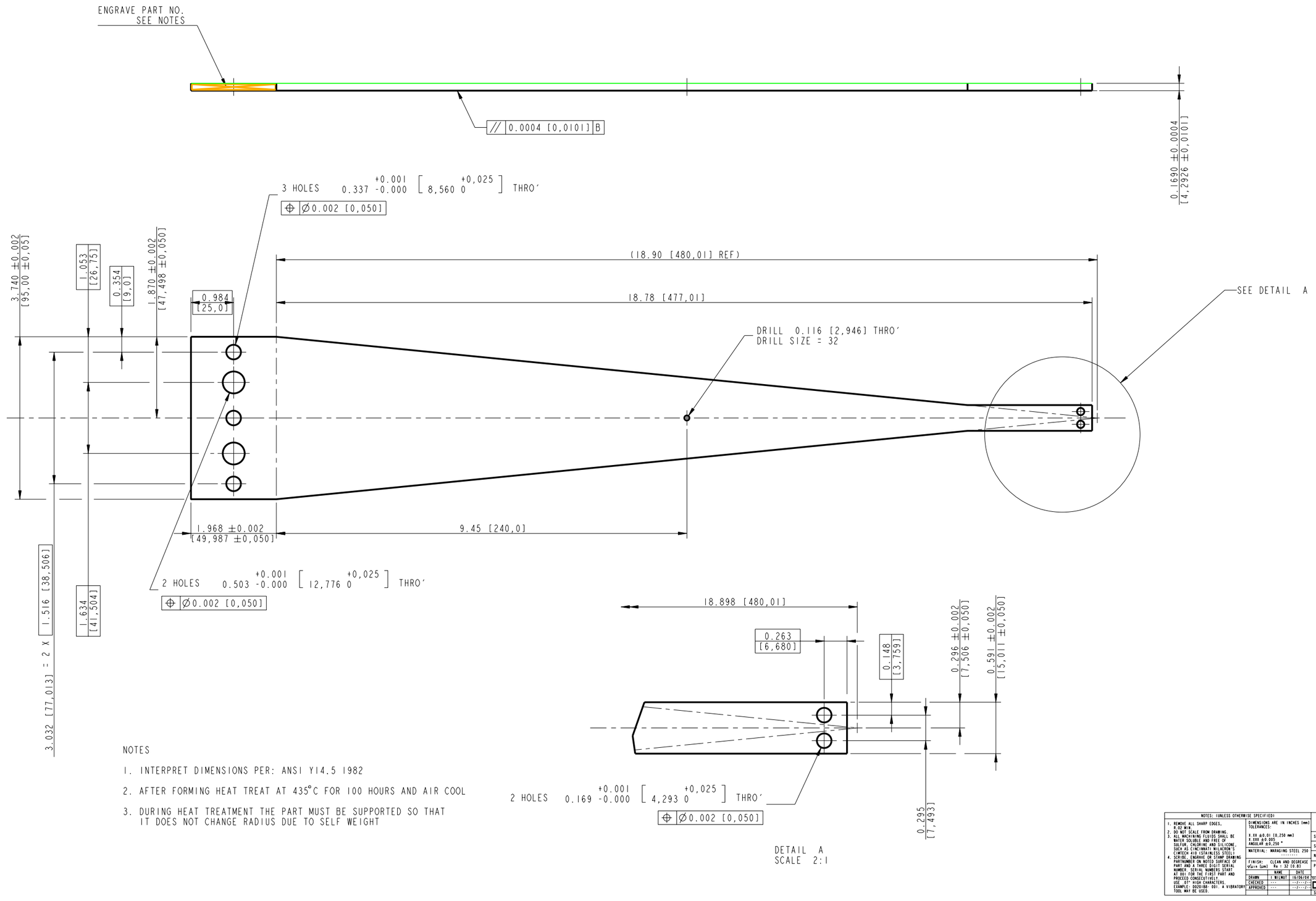
INTRALINK NAME: T0-1039-201--



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

DETAIL A
SCALE 2:1

NOTES: (UNLESS OTHERWISE SPECIFIED)
1. REMOVE ALL SHARP EDGES, R.02 MIN.
2. DO NOT SCALE FROM DRAWING.
3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 410 (STAINLESS STEEL)
4. SCRIBE, ENGRAVE OR STAMP DRAWING PARTNUMBER ON NOTED SURFACE OF PART AND A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST PART AND PROCEED CONSECUTIVELY.
USE .97" HIGH CHARACTERS.
EXAMPLE: D020188- 001. A VIBRATORY TOOL MAY BE USED.

DIMENSIONS ARE IN INCHES [mm]
TOLERANCES:
X .XX ±0.01 [0,250 mm]
X .XXX ±0.005
ANGULAR ±0.250 °
MATERIAL: MARAGING STEEL 250
FINISH: CLEAN AND DEGREASE
√(125 [µm]) Ra = 32 [0.81]

	NAME	DATE
DRAWN	I. WILMUT	16/06/04
CHECKED	---	--/--/--
APPROVED	---	--/--/--

CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
IGR, GLASGOW UNIVERSITY GEO 600 GROUP
RUTHERFORD APPLETON LABORATORIES

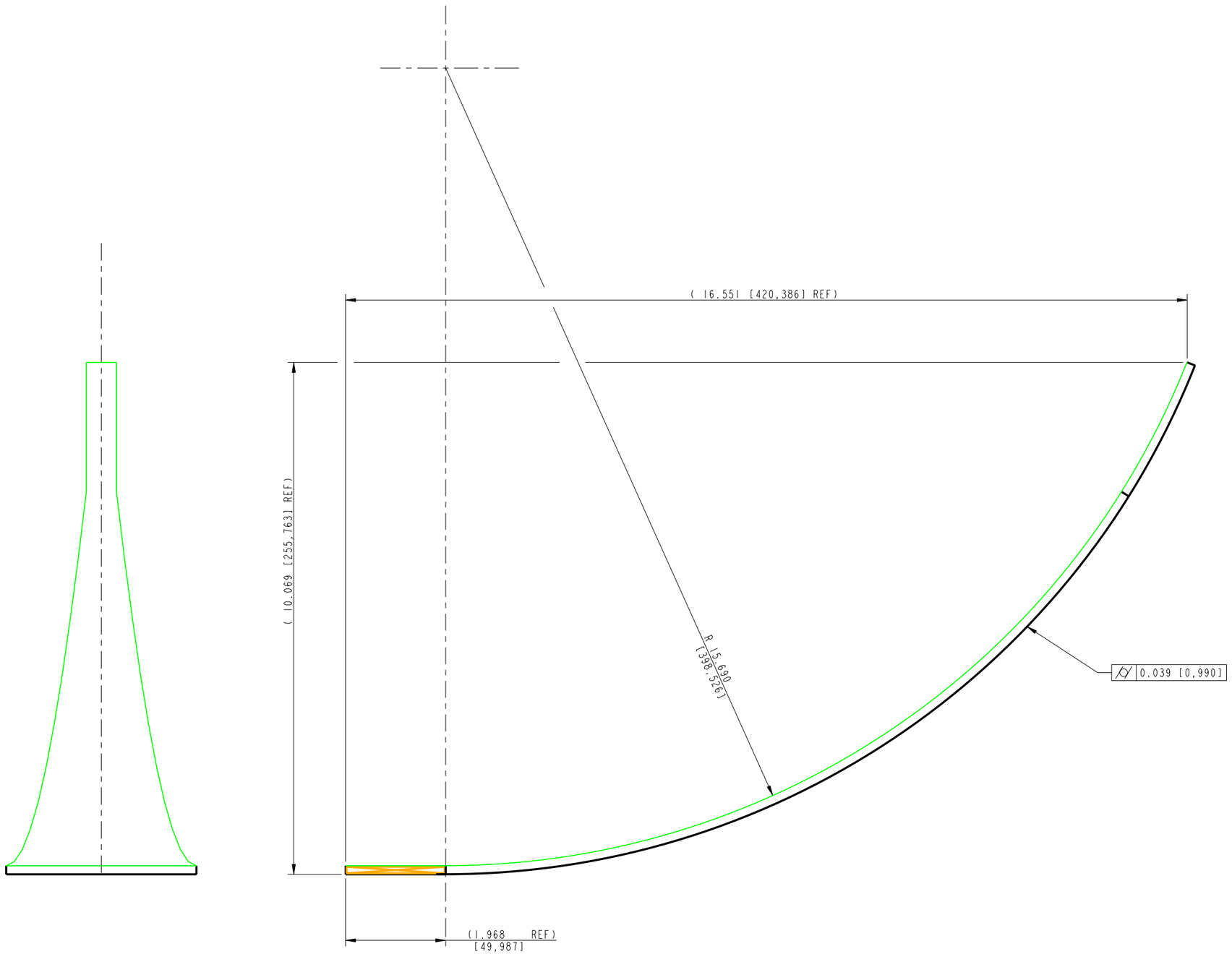
SYSTEM ADVANCED LIGO
SUB-SYSTEM SUS
NEXT ASSY TOP STAGE
PART NAME TOP STAGE BLADES
CONTROLS PROTOTYPE

SIZE D | DRG. NO. D040298 | REV 04
SCALE 1:1 | PROJECTION: | SHEET 1 OF 2

INTRALINK NAME: T0-1039-201--

FOR INTERNAL USE ONLY:

E=186Gpa
ALPHA=1.35
TOTAL SUSP MASS = 61 KG
P MASS = 11 KG
PREDICTED:
F = 2.33Hz
1st INTERNAL MODE = 70.26Hz
σ MAX = 981Mpa
REF: COMMUNICATION WITH BLADE COMMITTEE)



NOTES: (UNLESS OTHERWISE SPECIFIED)			CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP RUTHERFORD APPLETON LABORATORIES	
1. REMOVE ALL SHARP EDGES, R.02 MIN. 2. DO NOT SCALE FROM DRAWING. 3. ALL MACHINING FLUIDS SHALL BE WATER SOLUBLE AND FREE OF SULFUR, CHLORINE AND SILICONE, SUCH AS CINCINNATI MILACRON'S CIMTECH 610 (STAINLESS STEEL) 4. SCRIBE, ENGRAVE OR STAMP DRAWING PARTNUMBER ON NOTED 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: D021080 001. A VIBRATORY TOOL MAY BE USED.	DIMENSIONS ARE IN INCHES [mm] TOLERANCES: X.XX ±0.01 [0.250 mm] X.XXX ±0.005 ANGULAR ±0.250 ° MATERIAL: MARAGING STEEL 250 FINISH: CLEAN AND DEGREASE √ (µin) Ra : 32 (0.8)		SYSTEM ADVANCED LIGO SUB-SYSTEM SUS NEXT ASSY TOP STAGE PART NAME TOP STAGE BLADES CONTROLS PROTOTYPE	
	NAME	DATE	SIZE	REV
DRAWN	R WILHOIT	10/09/04	D	04
CHECKED	---	--/--/--	DRG. NO. D040298	
APPROVED	---	--/--/--	SCALE 1:1 PROJECTION:	SHEET 2 OF 2