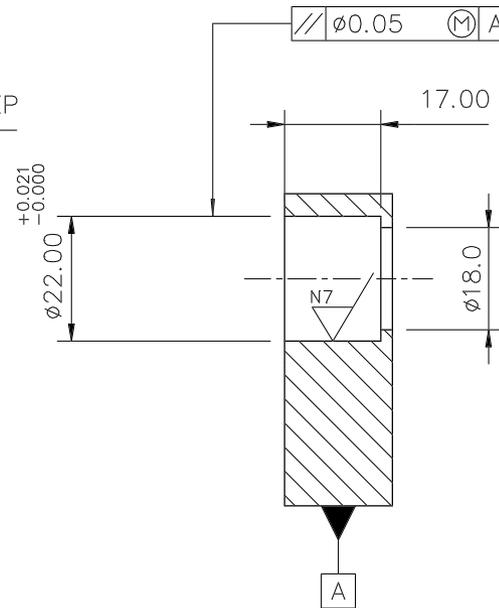
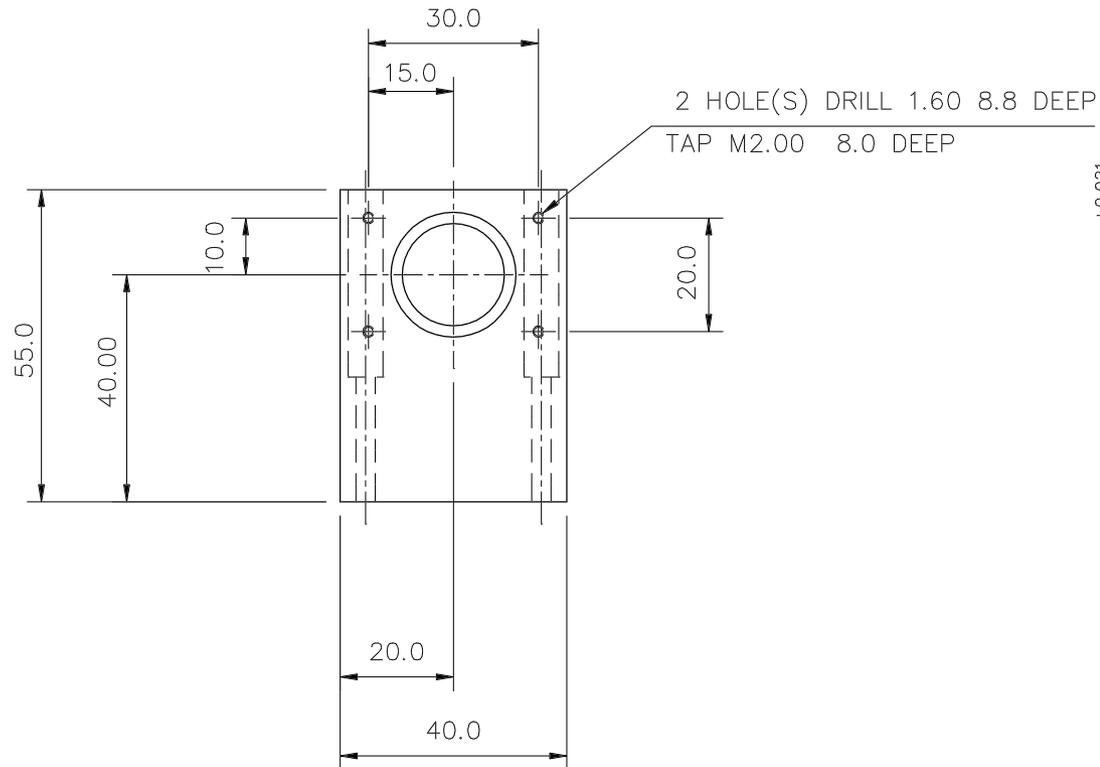
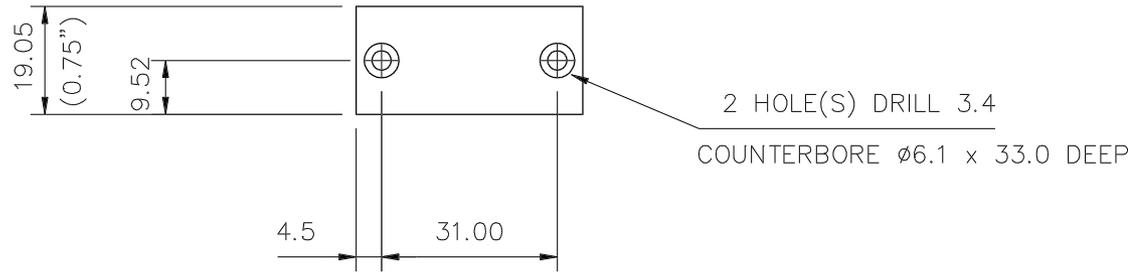
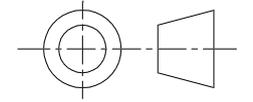


DO NOT SCALE

THIRD ANGLE PROJECTION

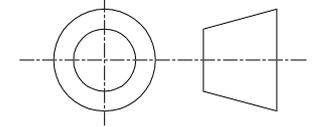


DRG. TITLE:		DETAIL OF BEARING HOUSING (MOTOR END)	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DLI 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	AJ/GD		DRAWING No.
DATE	16/04/91	AF2\YAX-07	REV. A

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES X (OVER 100) ±0.20 X (UP TO 100) ±0.1 X.X ±0.10 X.XX ±0.05	AL ALLOY
					Quantity: 1 OFF

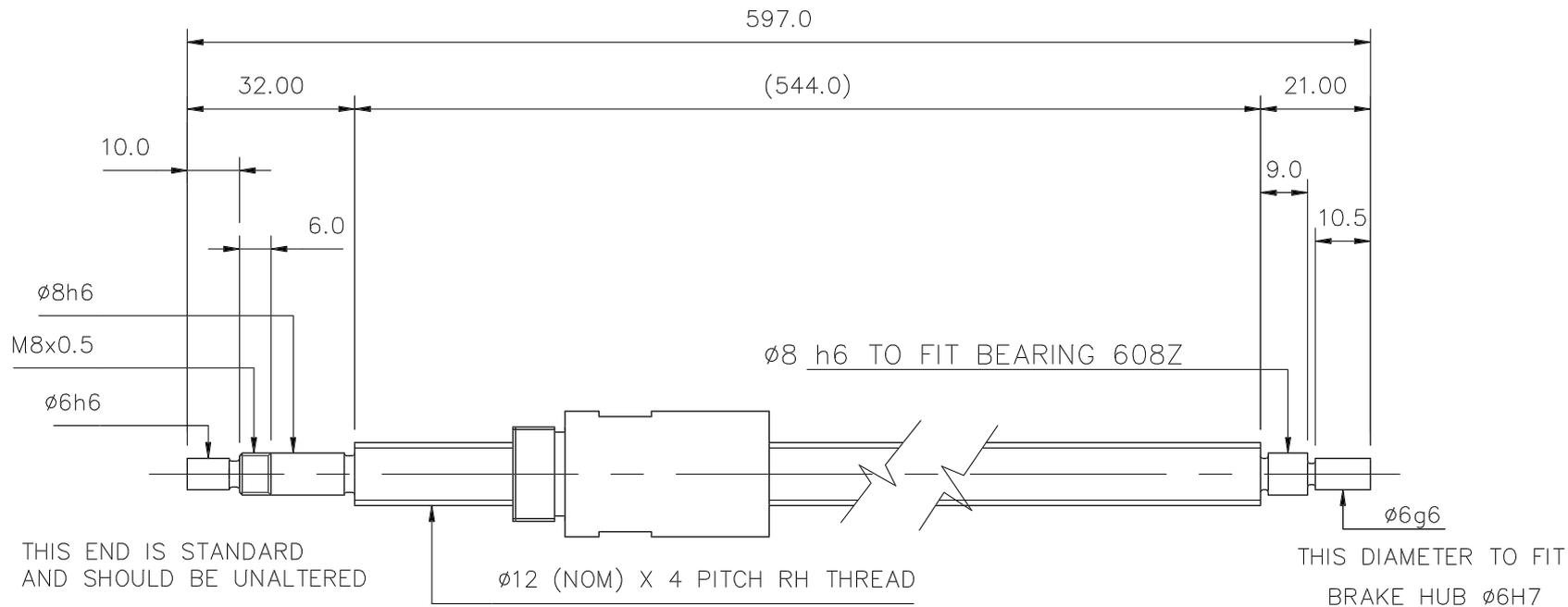
DO NOT SCALE

Third angle projection



NOTES

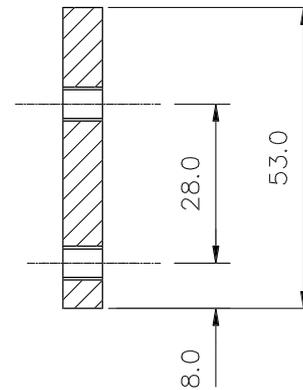
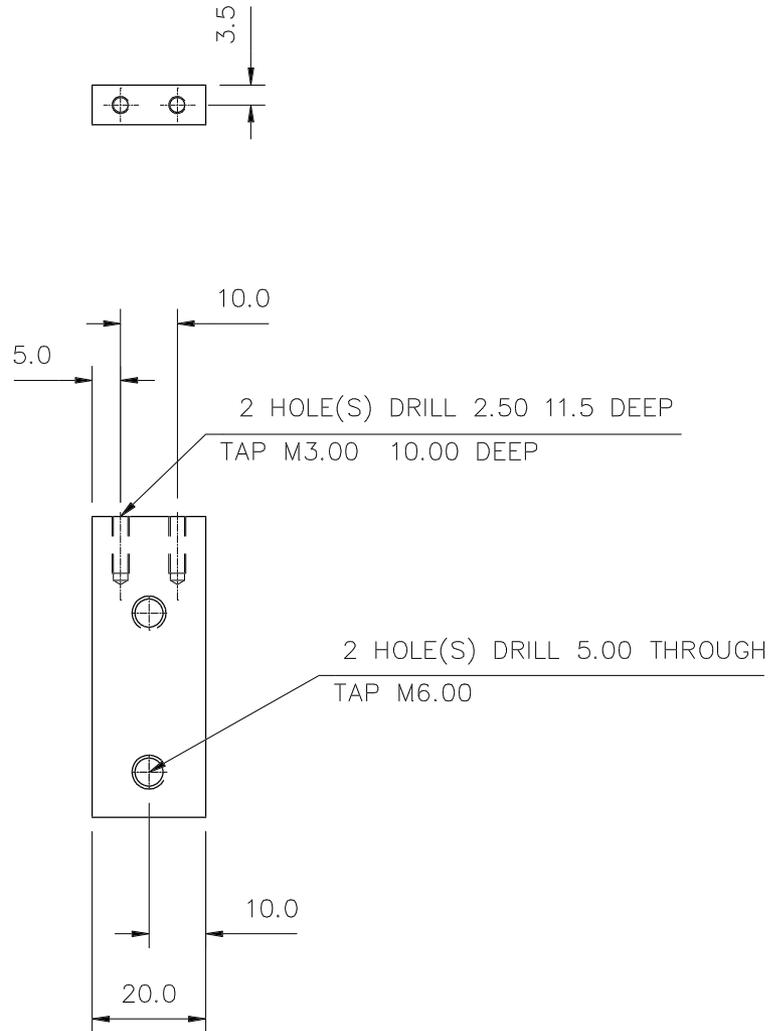
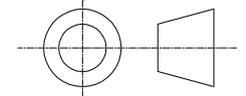
- 1/ ROLLED EXECUTION MINIATURE BALL SCREW AS PER STEINMEYER CATOLOGUE PAGE 20.
- 2/ JOURNAL DIAMETERS, UNDERCUTS & CHAMFERS TO BE IDENTICAL TO CODE No 1530/4.12.555.597 G.
- 3/ TO BE SUPPLIED WITH SPRING LOADED DOUBLE NUTS IN HOUSING.
- 4/ QUANTITY REQUIRED ONE ONLY.



All dimensions in mm unless otherwise stated		TITLE $\phi 12 \times 597$ LG MINIATURE BALL SCREW	Drawn by: A.J	Astronomical Instrumentation Group Durham University, Physics Dept, Science Labs, South Rd, Durham, DH1 3LE. Tel. (091) 374 2108
Implied Tolerances	Material:		Date: 3/5/91	
X ± 0.10	Quantity: 1 off		Drawing # YAX-BS	

DO NOT SCALE

THIRD ANGLE PROJECTION

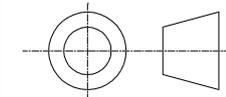


DRG. TITLE:		DRAG CHAIN SUPPORT	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DH1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	8/1/93	DRAWING No.	REV. A
		AF2\YAX-21	

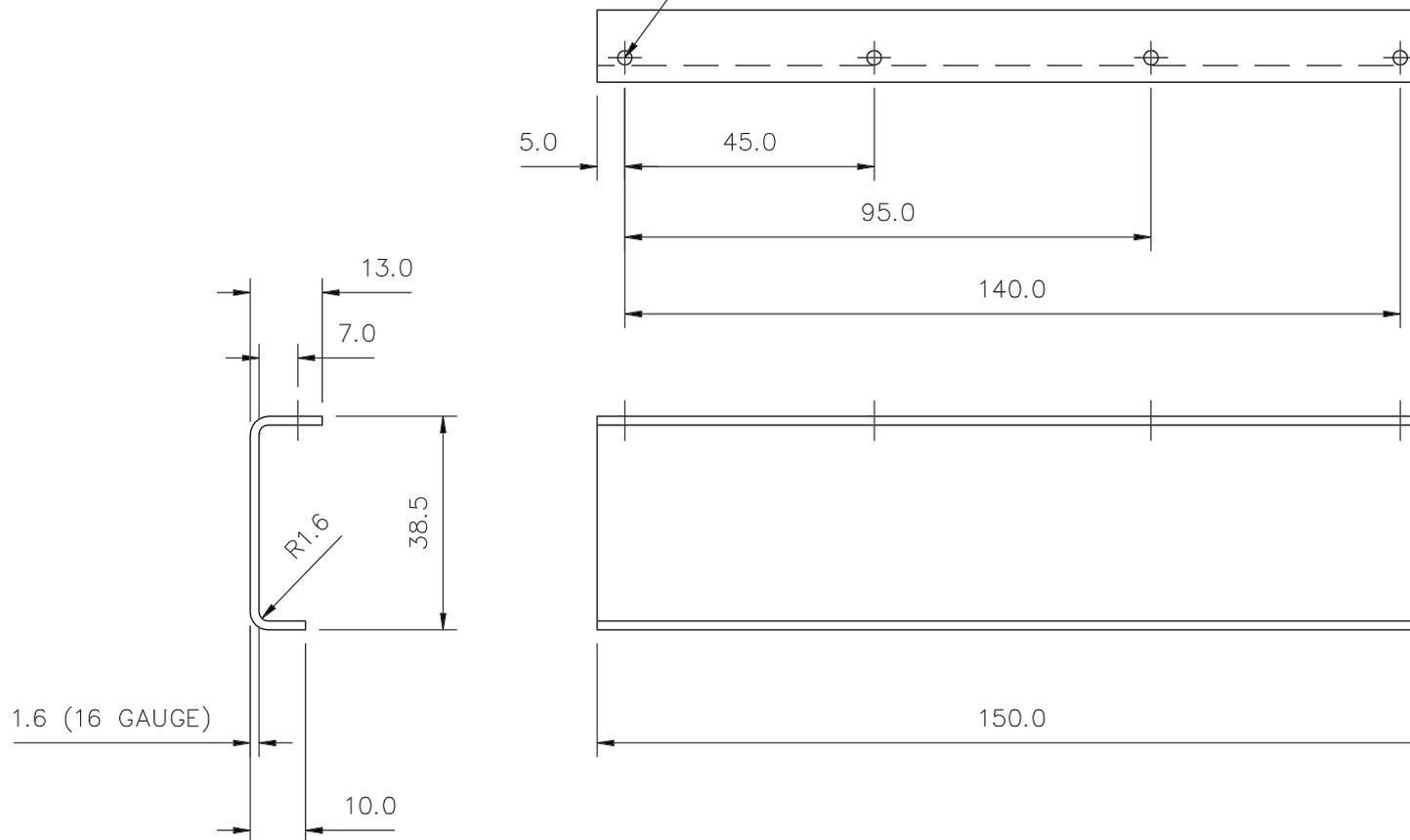
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ±0.20		AL ALLOY	
X (UP TO 100) ±0.1		Quantity: 1 OFF	
X.X ±0.10			
X.XX ±0.05			
ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION



4-HOLES DRILL $\phi 2.6$ THRO'



DRG. TITLE:		OPTO SWITCH FLAG	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DH1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE:		13/12/91	DRG. SIZE A3
			DRAWING No. AF2\YAX-20
			REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

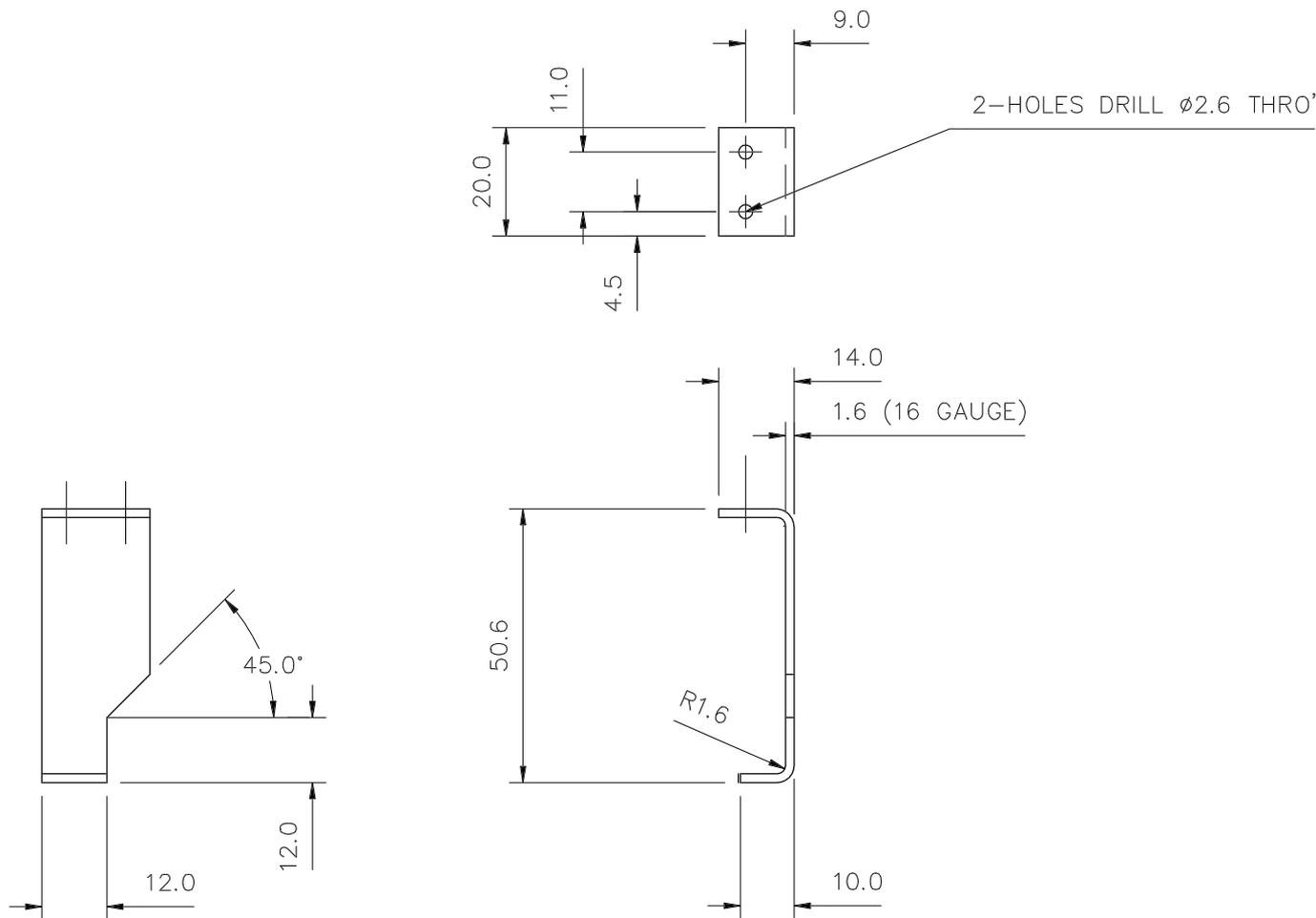
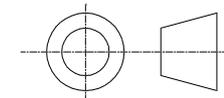
IMPLIED TOLERANCES
 X (OVER 100) ± 0.20
 X (UP TO 100) ± 0.1
 X.X ± 0.10
 X.XX ± 0.05

Material:
AL ALLOY
 Quantity: 1 OFF

ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION

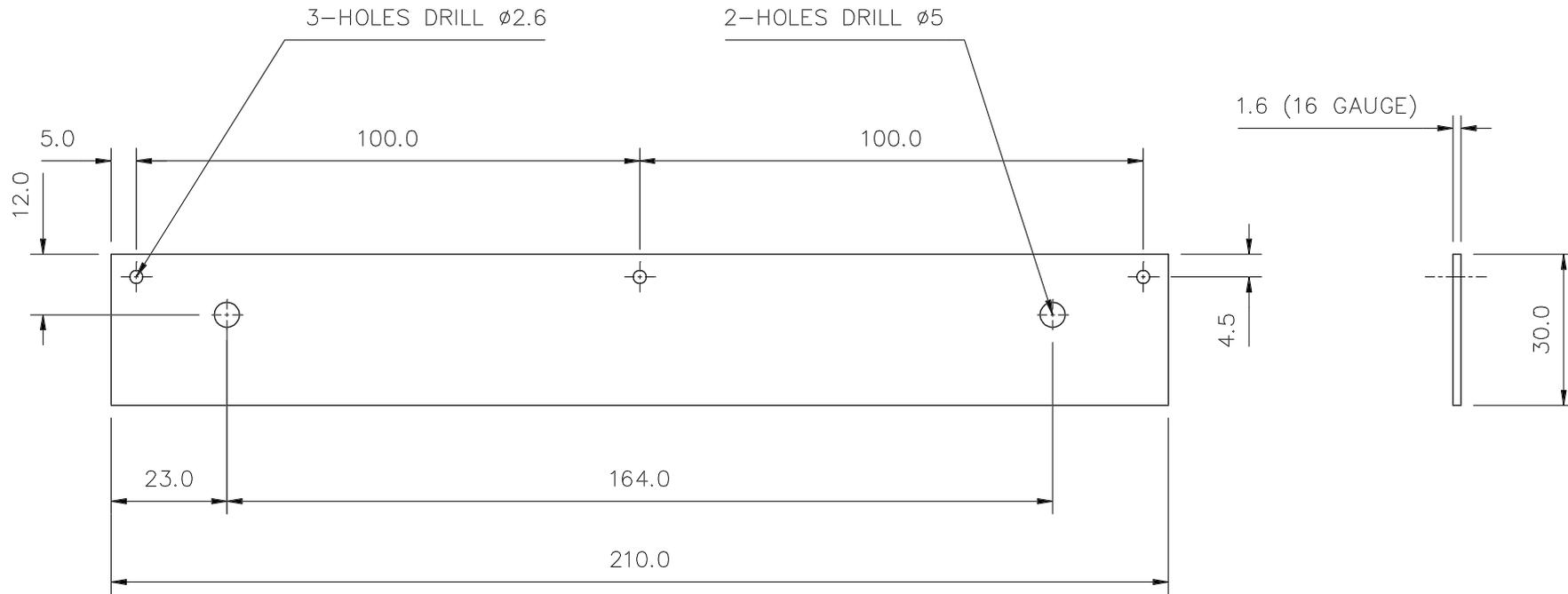
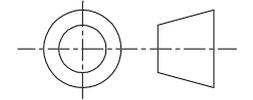


DRG. TITLE:		OPTO SWITCH FLAG	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DHI 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		DRAWING No.
DATE	16/12/91	AF2\YAX-19	REV. A

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES	AL ALLOY
				X (OVER 100) ±0.20	Quantity: 1 OFF
				X (UP TO 100) ±0.1	
				X.X ±0.10	
				X.XX ±0.05	

DO NOT SCALE

THIRD ANGLE PROJECTION

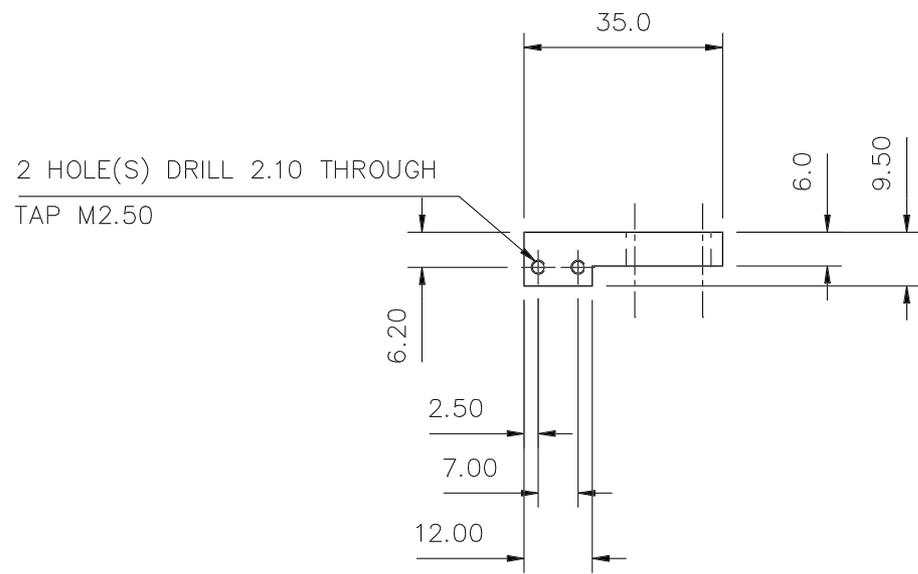
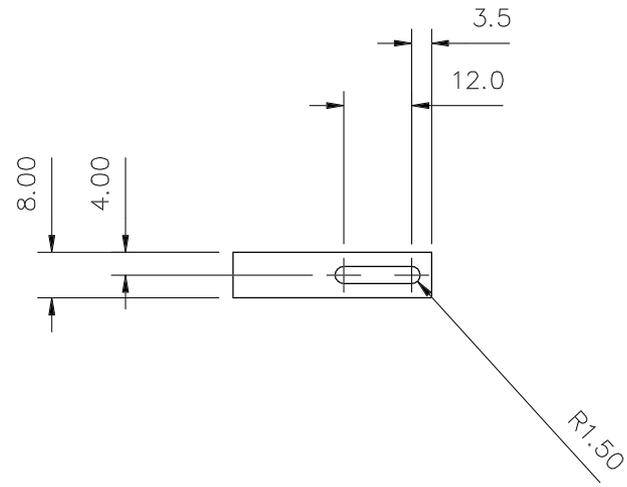
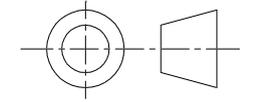


DRG. TITLE:		OPTO SWITCH FLAG	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE
DRAWN BY:	G.D		A3
DATE	2/09/91	DRAWING No.	REV.
		AF2\YAX-18	B

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ±0.20		AL ALLOY	
X (UP TO 100) ±0.1		Quantity: 1 OFF	
X.X ±0.10			
X.XX ±0.05			
B	FLAG RE-DISIGNED	GD	28/2/92
ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION

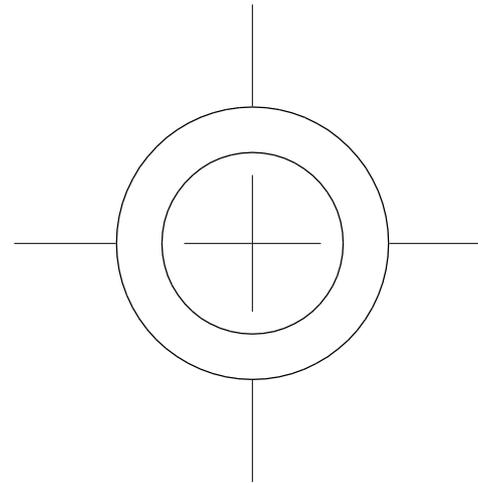
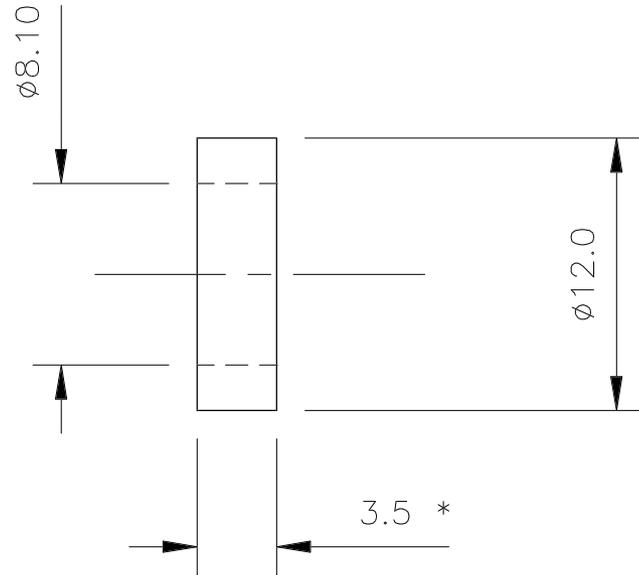
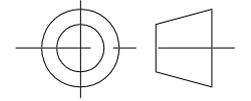


DRG. TITLE:		DETAILS OF OPTO SWITCH MOUNTING BLOCK	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	25/11/91	DRAWING No.	REV. A
		AF2\YAX-17	

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES	ALUMINIUM
				X (OVER 100) ±0.20	Quantity: 3 OFF
				X (UP TO 100) ±0.1	
				X.X ±0.10	
				X.XX ±0.05	

DO NOT SCALE

THIRD ANGLE PROJECTION



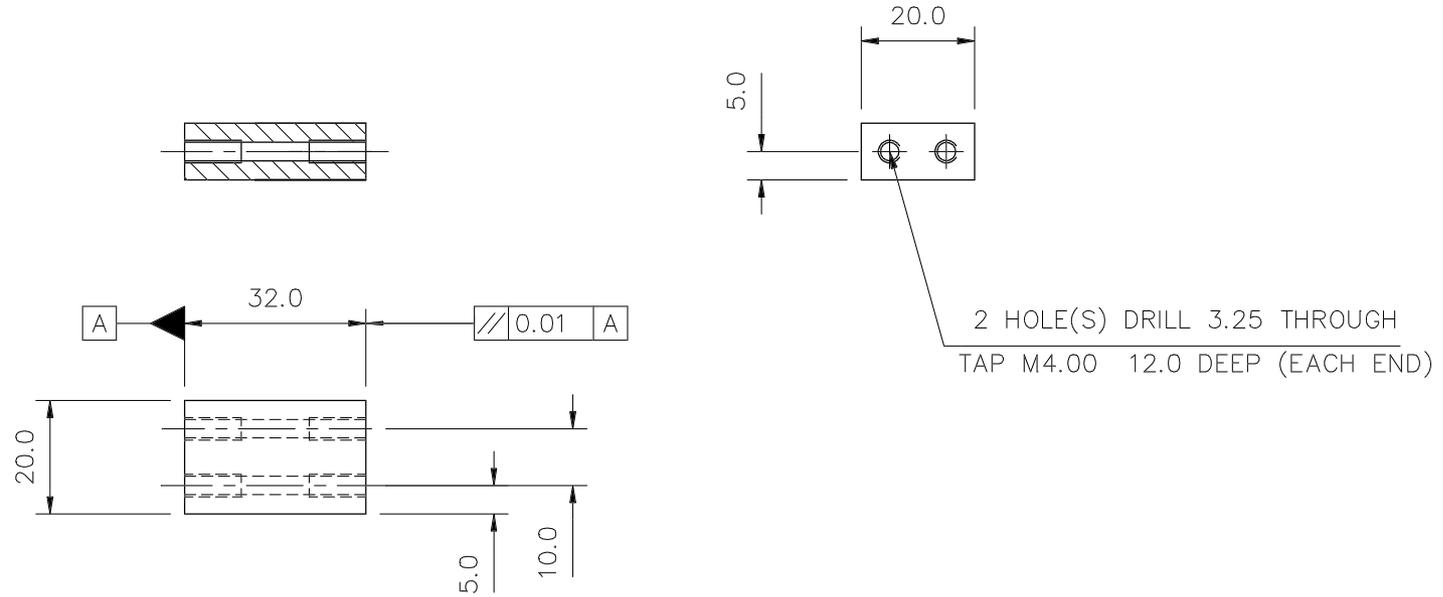
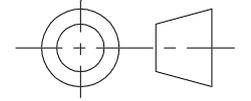
* WIDTH TO BE REDUCED ON ASSEMBLY

DRG. TITLE:		SPACER	
SCALES:	4:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE
DRAWN BY:	JW		A3
DATE	16/07/91	DRAWING No.	REV.
		AF2\YAX-16	A

				ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED
				IMPLIED TOLERANCES
				X (OVER 100) ±0.20
				X (UP TO 100) ±0.1
				X.X ±0.10
				X.XX ±0.05
ISSUE	REVISION	DRN	DATE	Material: BRASS
				Quantity: 1 OFF

DO NOT SCALE

THIRD ANGLE PROJECTION



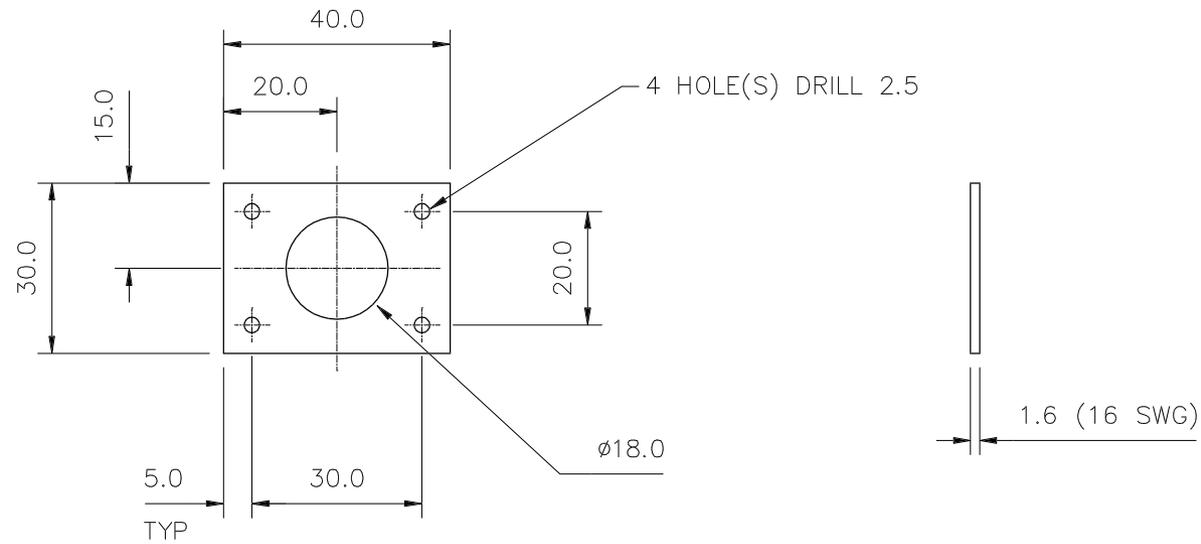
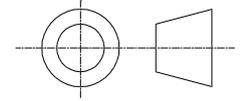
FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		DRAG CHAIN SUPPORT UPRIGHT	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	14/11/91	DRAWING No.	AF2\YAX-15
			REV. A

				ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED
				IMPLIED TOLERANCES X (OVER 100) ±0.20 X (UP TO 100) ±0.1 X.X ±0.10 X.XX ±0.05
				Material: AL ALLOY
				Quantity: 1 OFF
ISSUE	REVISION	DRN	DATE	

DO NOT SCALE

THIRD ANGLE PROJECTION



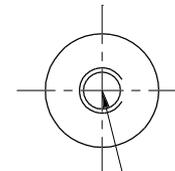
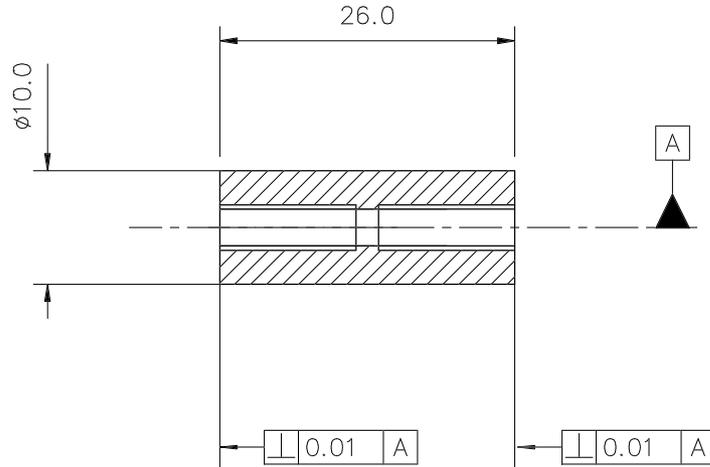
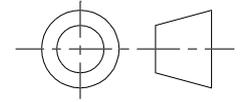
DRG. TITLE:		DETAIL OF COVER PLATE	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	AJ/GD	DRAWING No.	
DATE	17/04/91	AF2\YAX-14	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES			
			X (OVER 100) ±0.20
			X (UP TO 100) ±0.1
			X.X ±0.10
			X.XX ±0.05
ISSUE	REVISION	DRN	DATE

Material:
AL ALLOY
Quantity: 1 OFF

DO NOT SCALE

THIRD ANGLE PROJECTION



1 HOLE(S) DRILL 3.25 THROUGH
TAP M4.00 X 12 DEEP EACH END

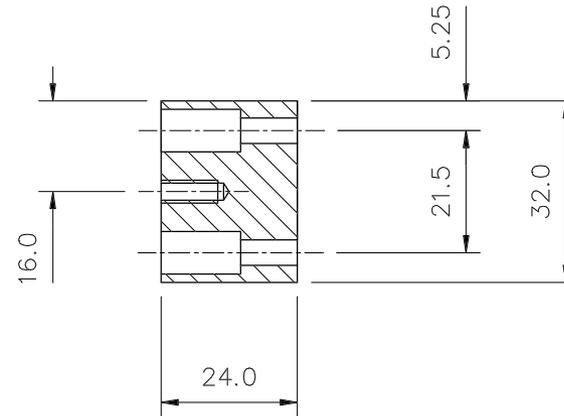
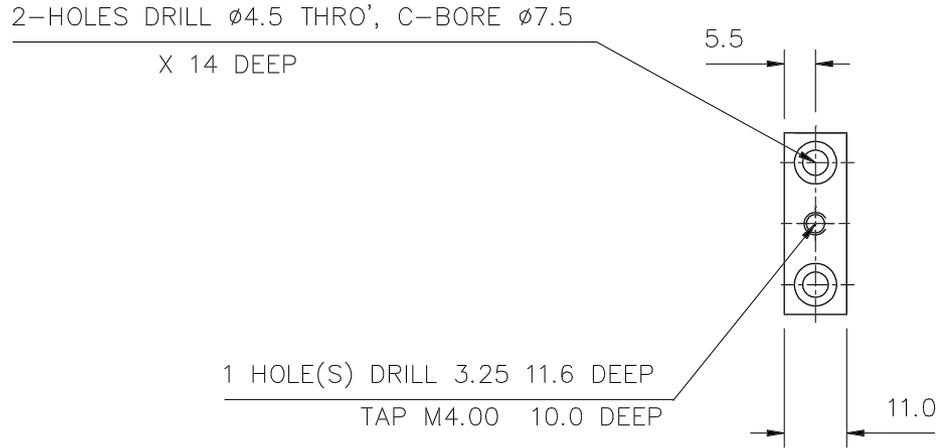
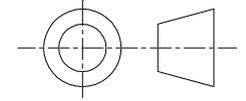
FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		SUPPORT	
SCALES:	2:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP	DRG. SIZE A3
DRAWN BY:	G.D		
DATE	25/11/91	DRAWING No.	REV.
		AF2\YAX-13	A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES			
X (OVER 100) ±0.20			
X (UP TO 100) ±0.1			
X.X ±0.10			
X.XX ±0.05			
ISSUE	REVISION	DRN	DATE
		Material: ST STEEL	
		Quantity: 2 OFF	

DO NOT SCALE

THIRD ANGLE PROJECTION



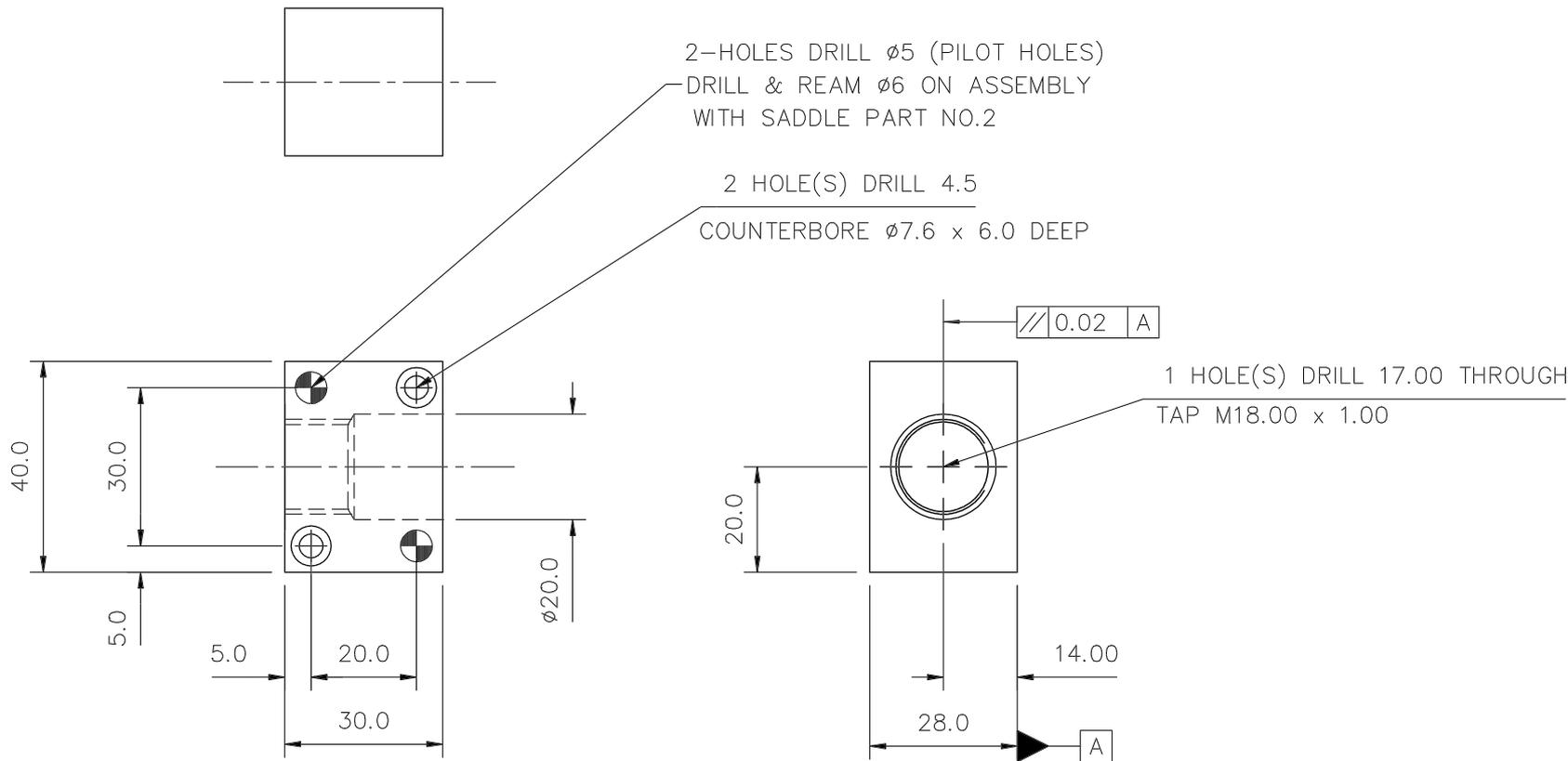
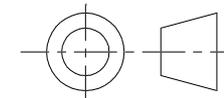
FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		LINEAR TRANSDUCER SUPPORT BLOCK	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE		11/11/91	DRAWING No. AF2\YAX-12
REV.:		A	DRG. SIZE A3

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES			
X (OVER 100) ± 0.20			
X (UP TO 100) ± 0.1			
X.X ± 0.10			
X.XX ± 0.05			
Material:		AL ALLOY	
Quantity:		1 OFF	
ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION



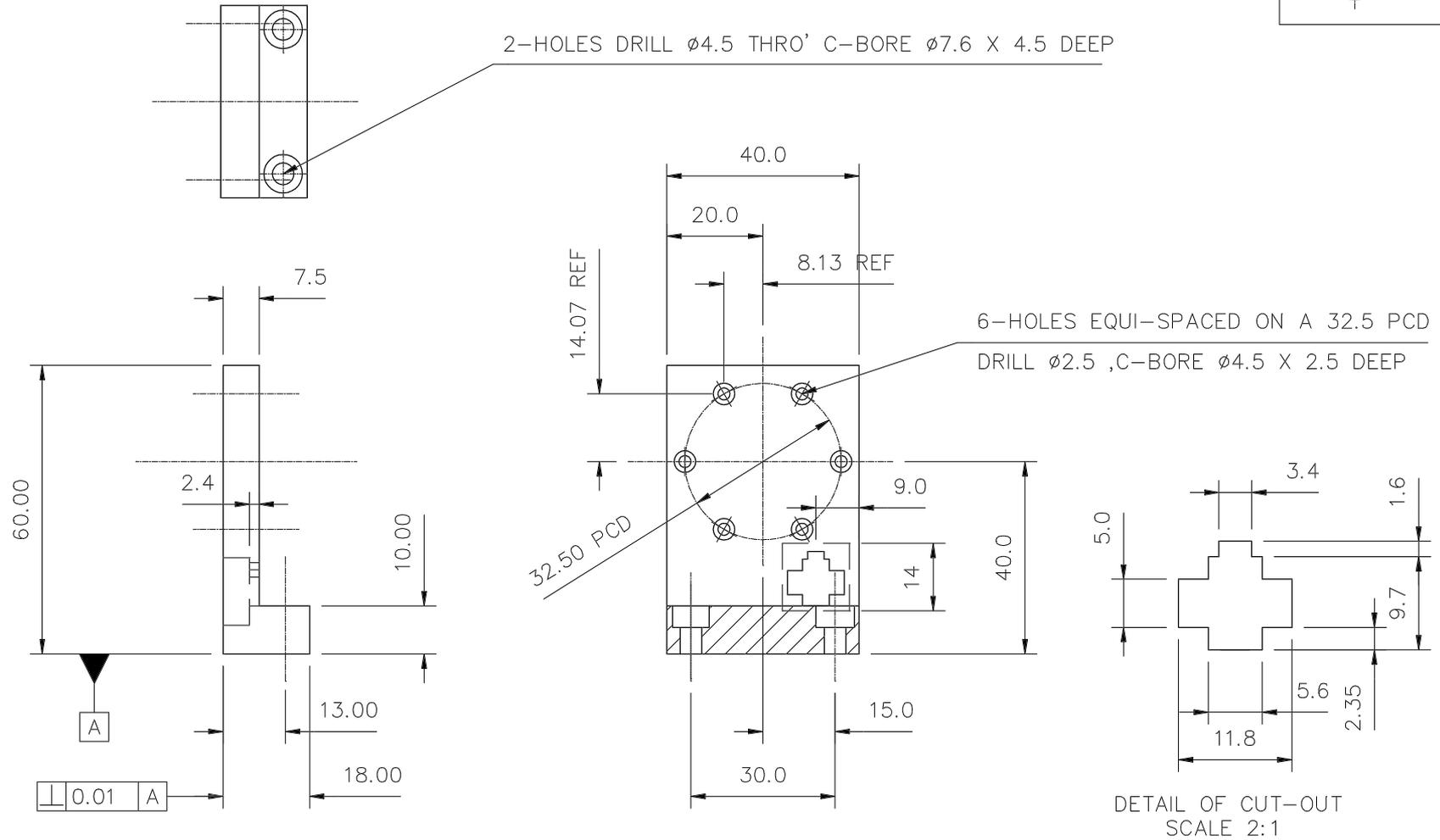
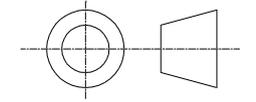
FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		BALLSCREW NUT RETENTION BLOCK	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE		15/11/91	DRAWING No. AF2\YAX-11
			DRG. SIZE A3
			REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ± 0.20		AL ALLOY	
X (UP TO 100) ± 0.1		Quantity: 1 OFF	
X.X ± 0.10			
X.XX ± 0.05			
ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION



A

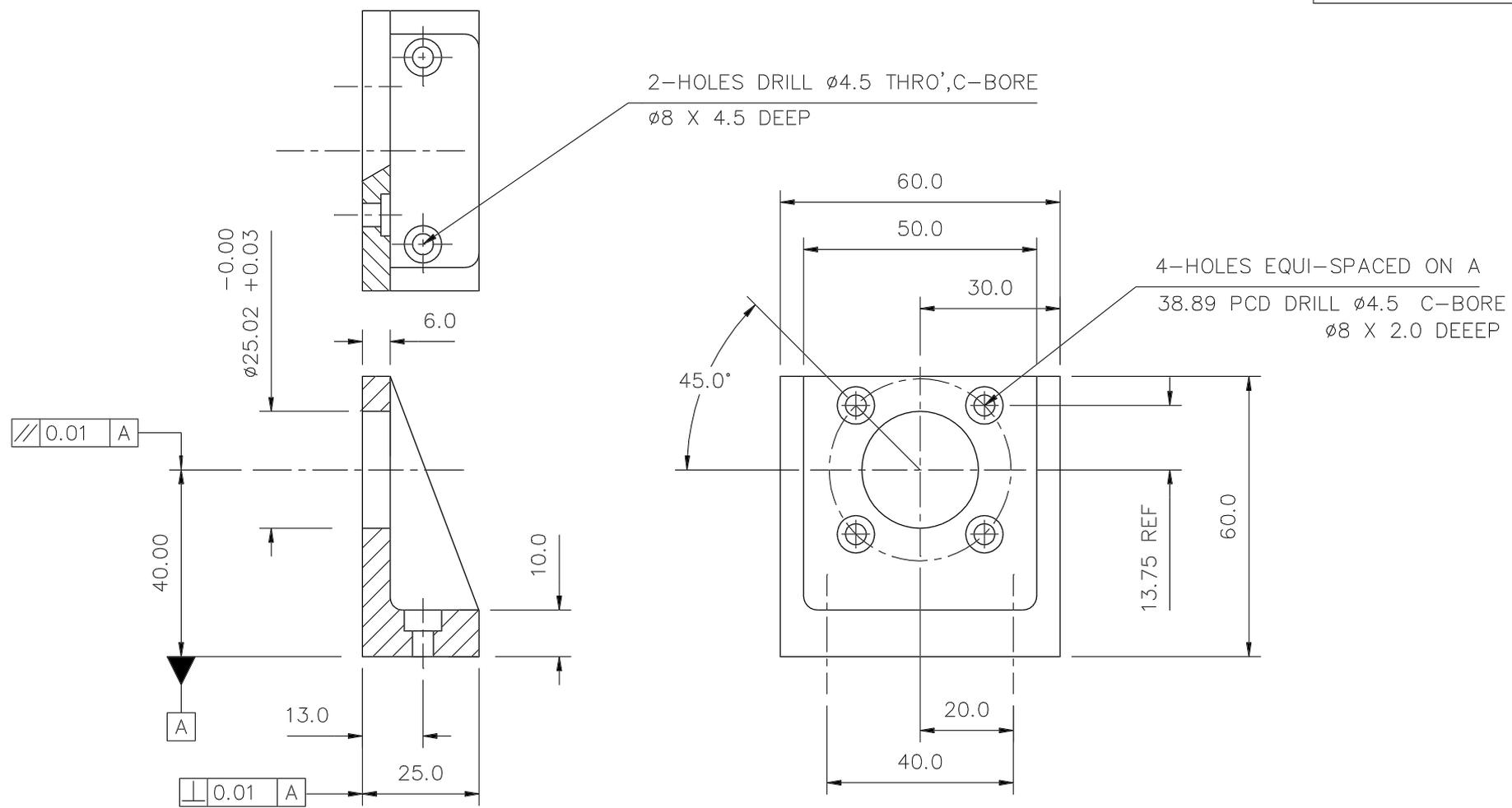
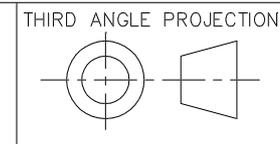
0.01 A

FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		BRAKE SUPPORT BRACKET	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		JW	
DATE:			DRAWING No.
			AF2\YAX-10
			REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ± 0.20		AL ALLOY	
X (UP TO 100) ± 0.1		Quantity: 1 OFF	
X.X ± 0.10			
X.XX ± 0.05			
ISSUE	REVISION	DRN	DATE

DO NOT SCALE



2-HOLES DRILL $\phi 4.5$ THRO', C-BORE
 $\phi 8$ X 4.5 DEEP

4-HOLES EQUI-SPACED ON A
38.89 PCD DRILL $\phi 4.5$ C-BORE
 $\phi 8$ X 2.0 DEEP

0.01 A

0.01 A

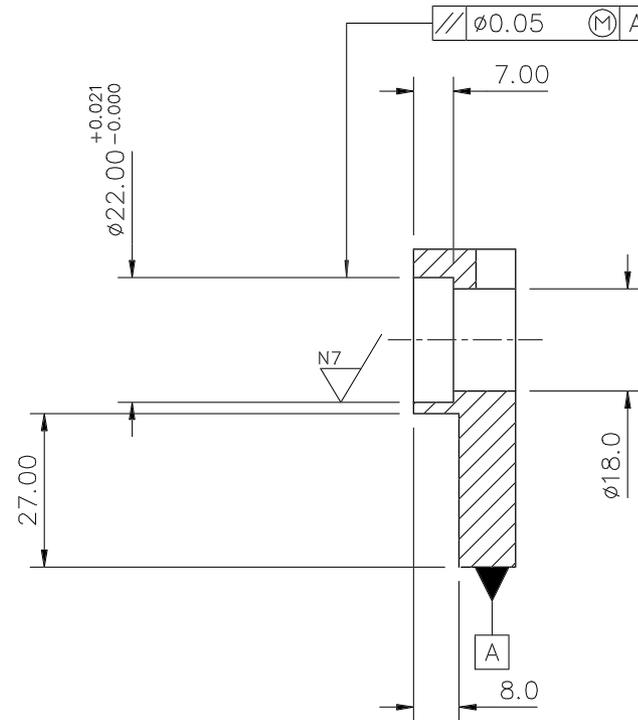
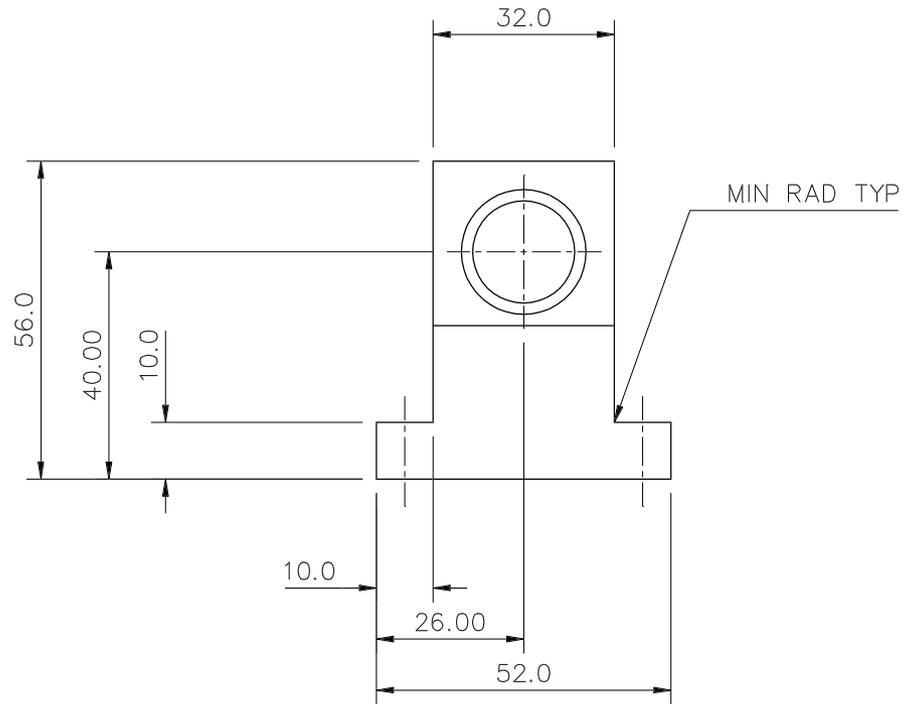
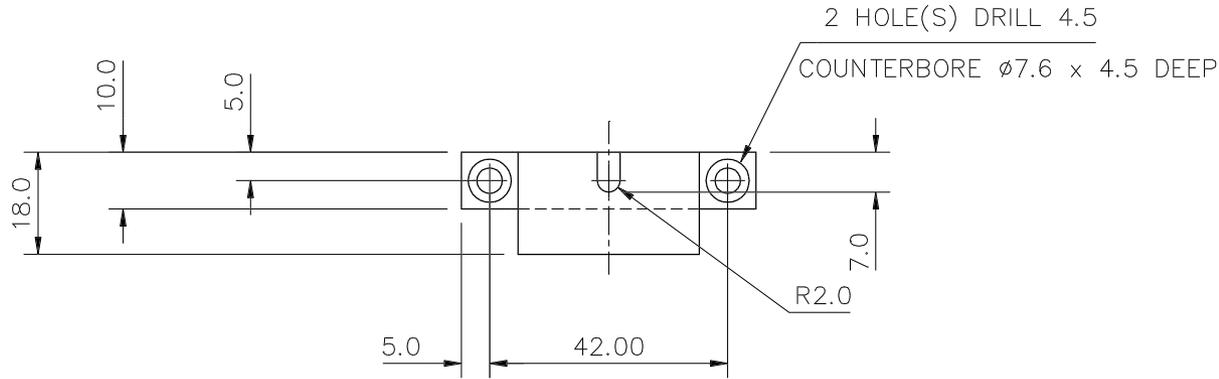
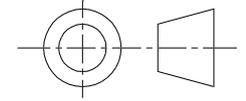
FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		MOTOR SUPPORT BRACKET	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE:		15/11/91	DRAWING No. AF2\YAX-09
DRG. SIZE:		A3	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ± 0.20		AL ALLOY	
X (UP TO 100) ± 0.1		Quantity: 1 OFF	
X.X ± 0.10			
X.XX ± 0.05			
ISSUE	REVISION	DRN	DATE

DO NOT SCALE

THIRD ANGLE PROJECTION

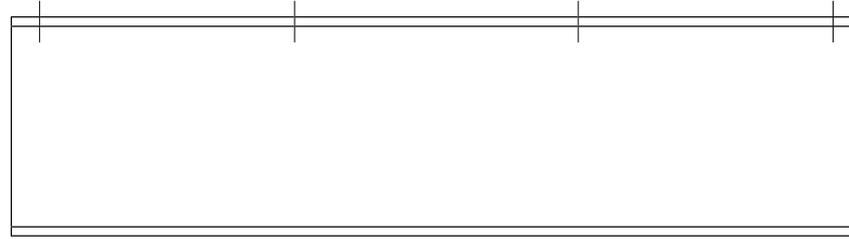
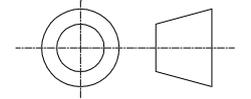


DRG. TITLE:		DETAIL OF BEARING HOUSING (BRAKE END)	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DLI 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		AJ/GD	
DATE:		17/04/91	DRAWING No.
		AF2\YAX-08	REV. A

ISSUE	REVISION	DRN	DATE	ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	Material:
				IMPLIED TOLERANCES	AL ALLOY
				X (OVER 100) ±0.20	Quantity: 1 OFF
				X (UP TO 100) ±0.1	
				X.X ±0.10	
				X.XX ±0.05	

DO NOT SCALE

THIRD ANGLE PROJECTION



DRG. TITLE:

SCALES: **1:1**
ASTRONOMICAL INSTRUMENTATION GROUP
 DURHAM UNIVERSITY, PHYSICS DEPARTMENT
 SCIENCE LABS, SOUTH ROAD, DURHAM, DH1 3LE
 TEL. (091) 374 2107 & 2108

DRG. TYPE: **PARTS**
 DRAWN BY: **G.D**
 DATE: _____

THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP

DRG. SIZE
A3

DRAWING No. _____

REV.
A

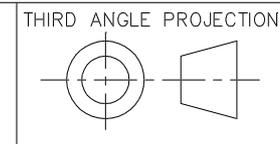
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

IMPLIED TOLERANCES
 X (OVER 100) ±0.20
 X (UP TO 100) ±0.1
 X.X ±0.10
 X.XX ±0.05

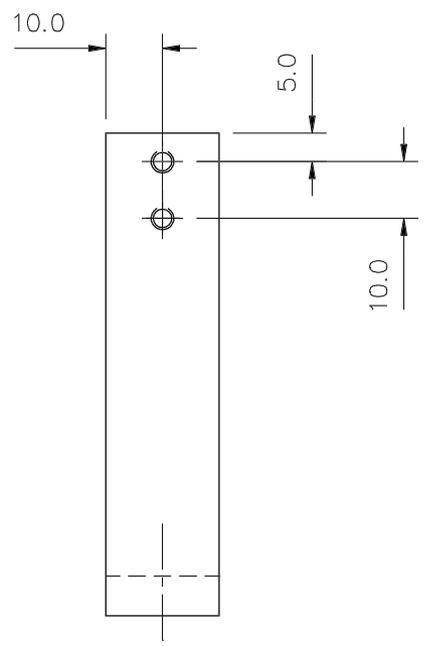
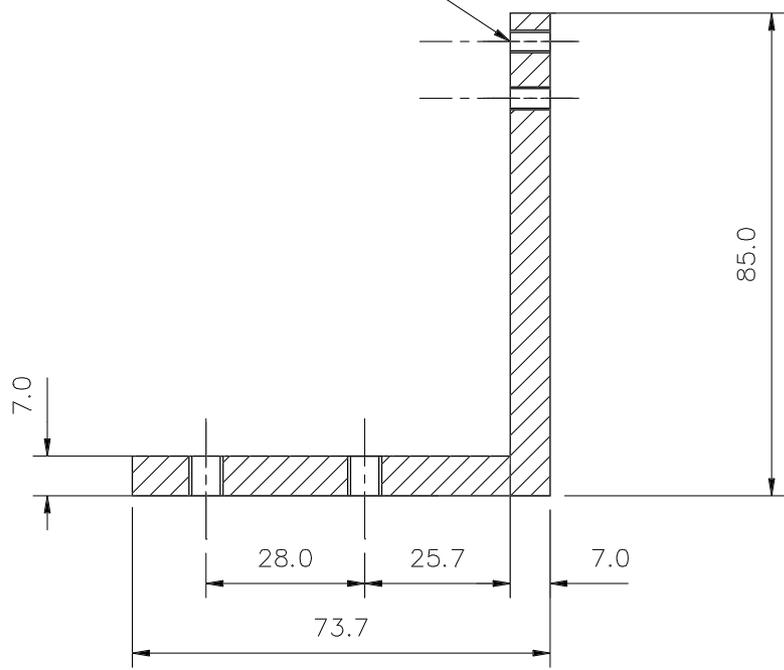
Material:
ALUMINIUM
 Quantity: 1 OFF

ISSUE	REVISION	DRN	DATE

DO NOT SCALE

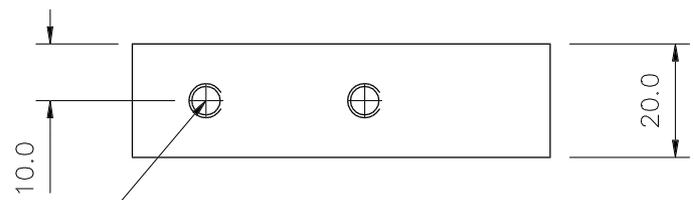


2 HOLE(S) DRILL 3.25 THROUGH
TAP M4.00



FINISH - MACHINE N7 ALL OVER

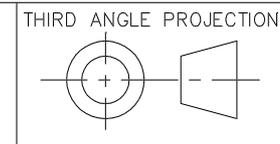
2 HOLE(S) DRILL 5.00 THROUGH
TAP M6.00



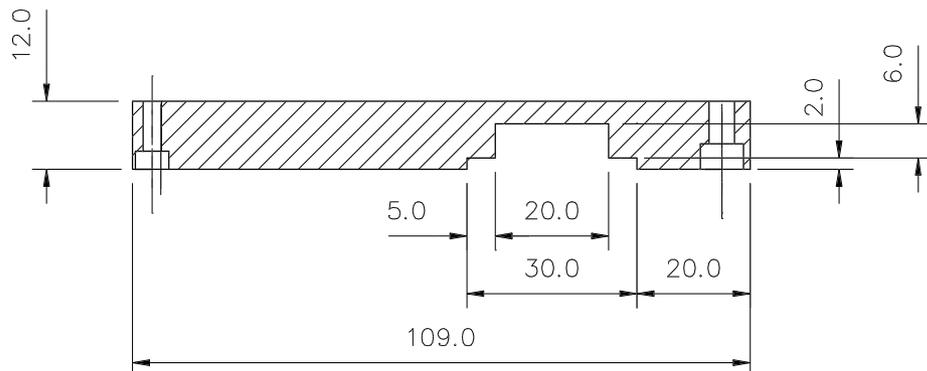
DRG. TITLE:		DRAG CHAIN SUPPORT (FIXED END)	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE:		22/11/91	DRAWING No. AF2\YAX-06
DRG. SIZE:		A3	REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ±0.20		AL ALLOY	
X (UP TO 100) ±0.1		Quantity: 1 OFF	
X.X ±0.10			
X.XX ±0.05			
ISSUE	REVISION	DRN	DATE

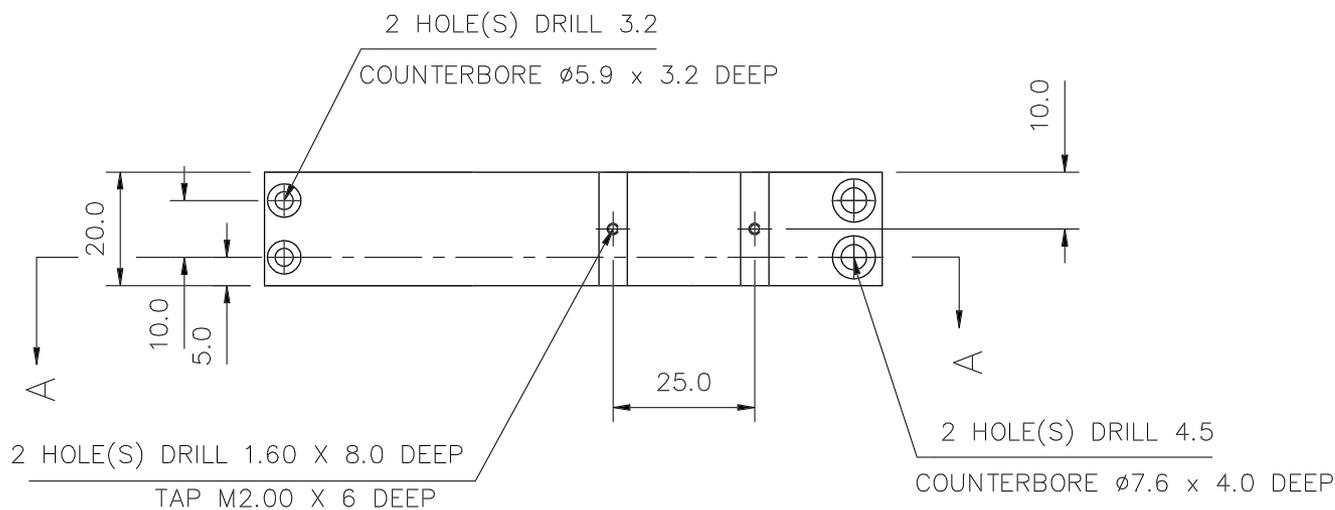
DO NOT SCALE



SECTION A-A



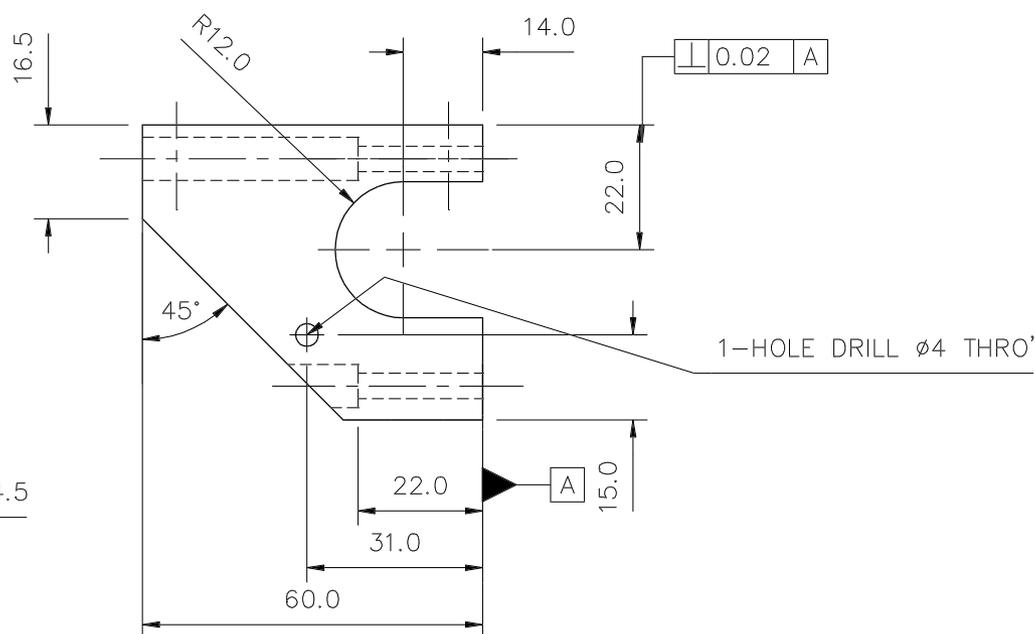
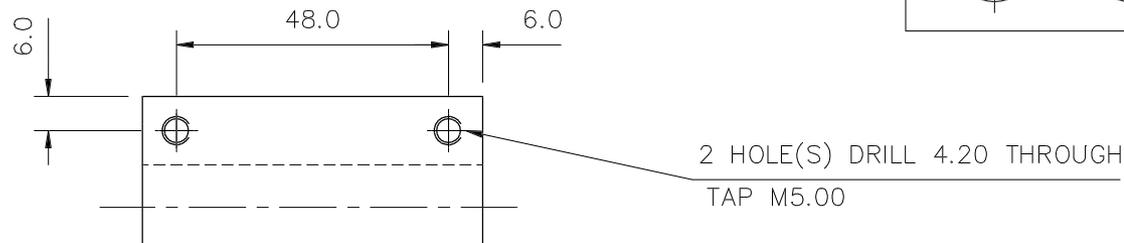
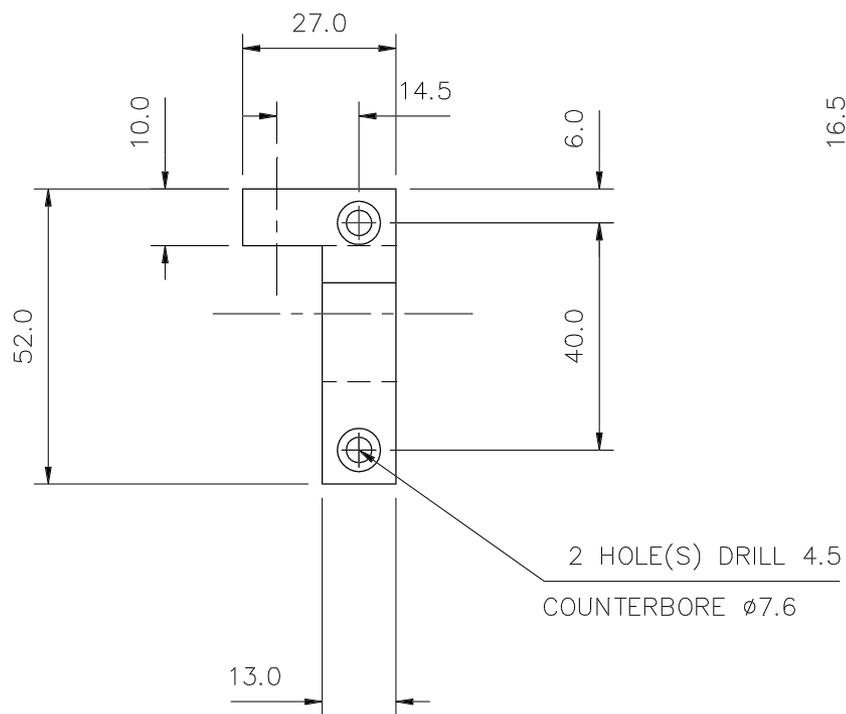
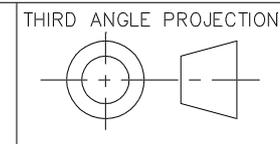
FINISH - MACHINE N7 ALL OVER



DRG. TITLE:		DRAG CHAIN SUPPORT ARM (MOVING END)	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE		14/11/91	DRAWING No. AF2\YAX-05
REV.:		A	DRG. SIZE A3

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100) ±0.20		AL ALLOY	
X (UP TO 100) ±0.1		Quantity: 1 OFF	
X.X ±0.10			
X.XX ±0.05			
ISSUE	REVISION	DRN	DATE

DO NOT SCALE



FINISH - MACHINE N7 ALL OVER

DRG. TITLE:		GRIPPER SUPPORT BRACKET (BRAKE END)	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE:		15/11/91	DRAWING No. AF2\YAX-04
			DRG. SIZE A3
			REV. A

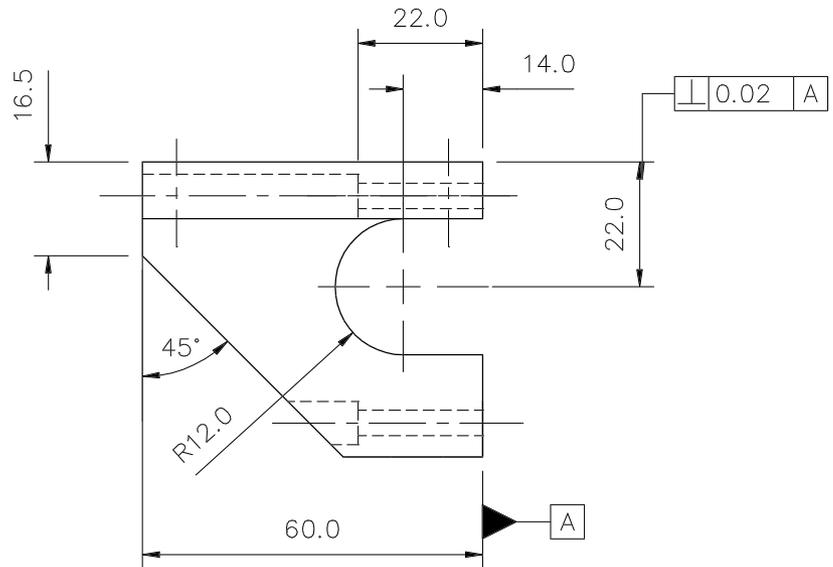
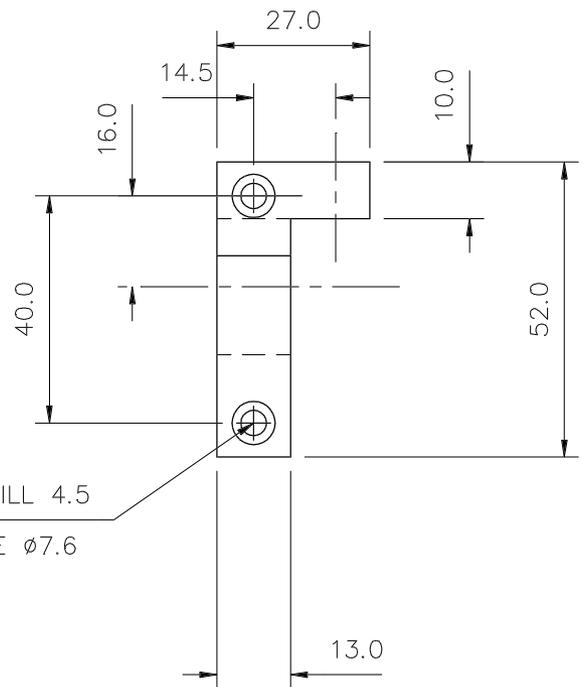
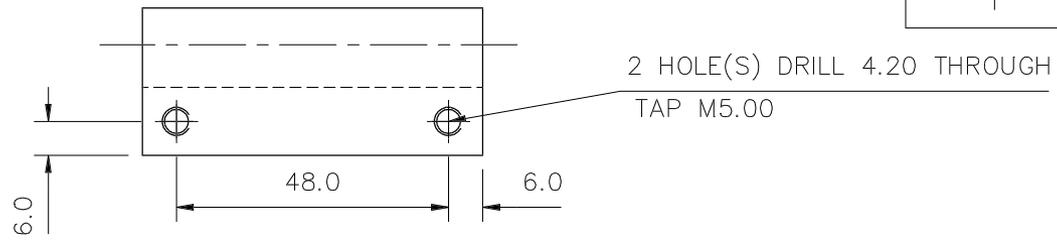
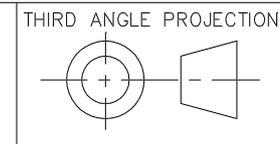
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED

IMPLIED TOLERANCES
X (OVER 100) \pm 0.20
X (UP TO 100) \pm 0.1
X.X \pm 0.10
X.XX \pm 0.05

Material:
AL ALLOY
Quantity: 1 OFF

ISSUE	REVISION	DRN	DATE

DO NOT SCALE



2 HOLE(S) DRILL 4.5
COUNTERBORE Ø7.6

2 HOLE(S) DRILL 4.20 THROUGH
TAP M5.00

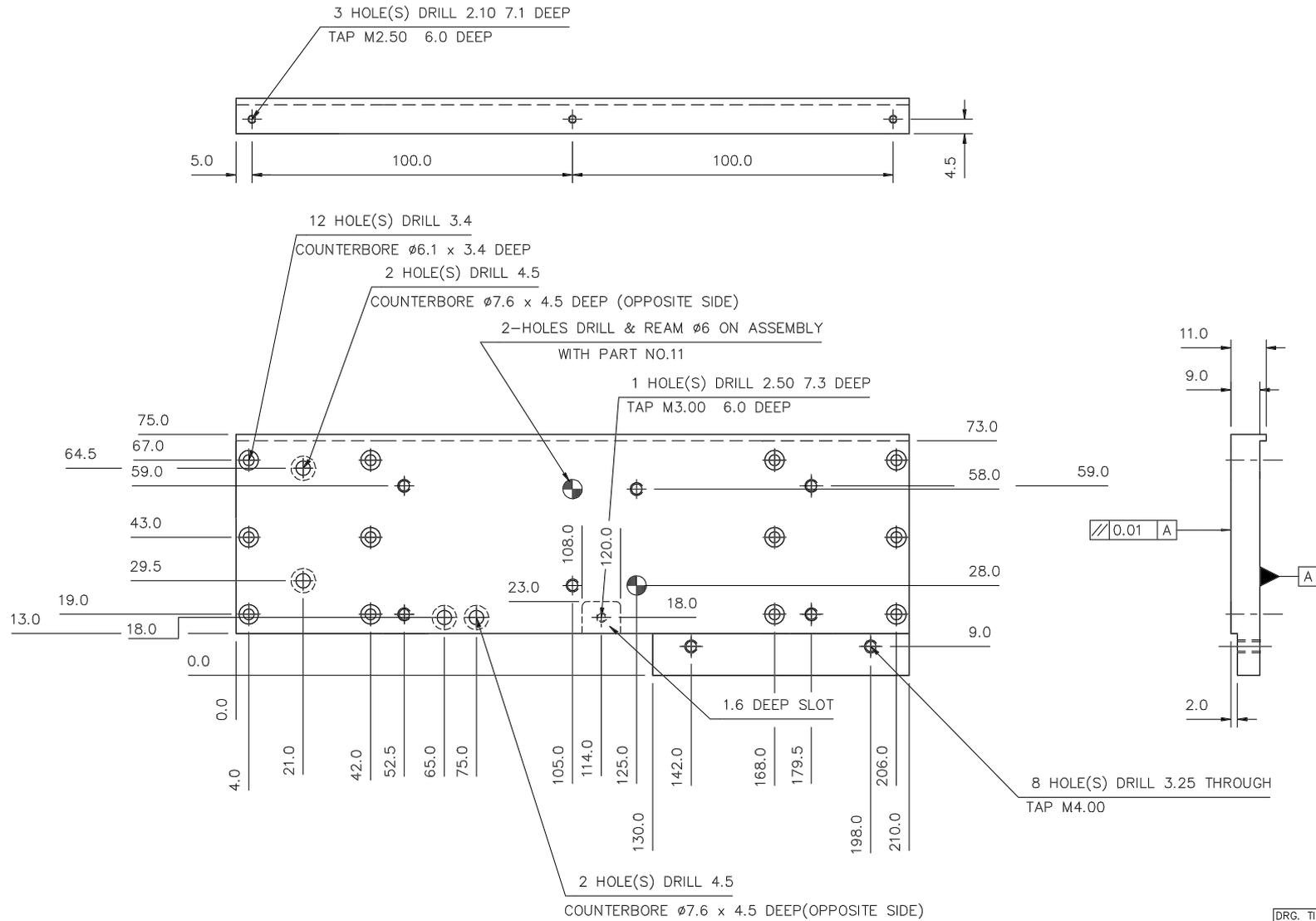
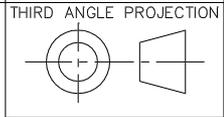
FINISH – MACHINE N7 ALL OVER

DRG. TITLE:		GRIPPER SUPPORT BRACKET (MOTOR END)	
SCALES:		1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108
DRG. TYPE:		PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP
DRAWN BY:		G.D	
DATE		15/11/91	DRAWING No. AF2\YAX-03
Material:		AL ALLOY	DRG. SIZE A3
Quantity: 1 OFF			REV. A

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED			
IMPLIED TOLERANCES		Material:	
X (OVER 100)	±0.20	AL ALLOY	
X (UP TO 100)	±0.1		
X.X	±0.10		
X.XX	±0.05		
Quantity: 1 OFF			

ISSUE	REVISION	DRN	DATE

DO NOT SCALE

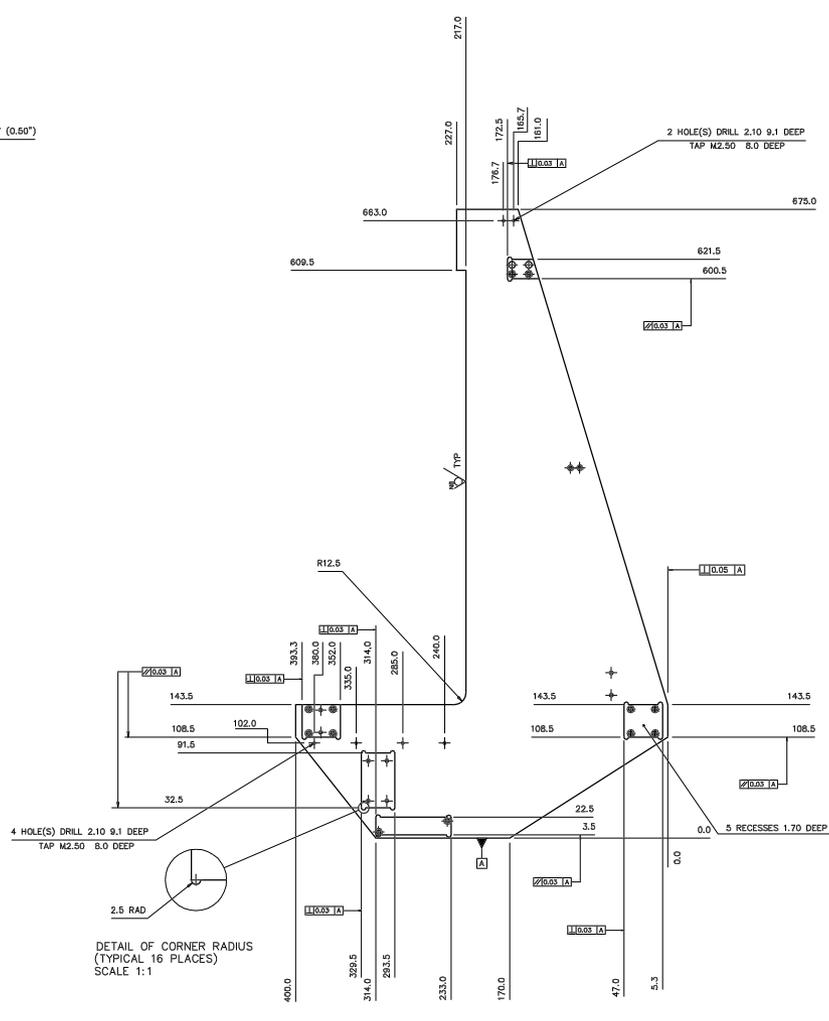
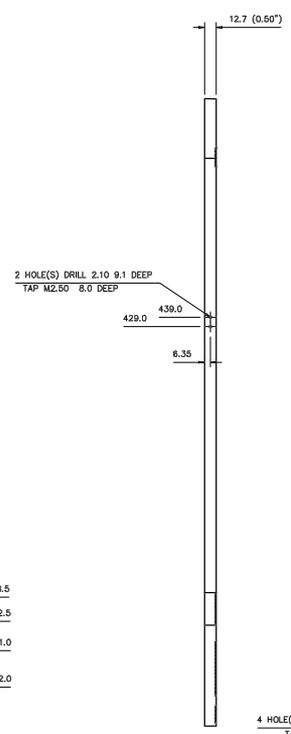
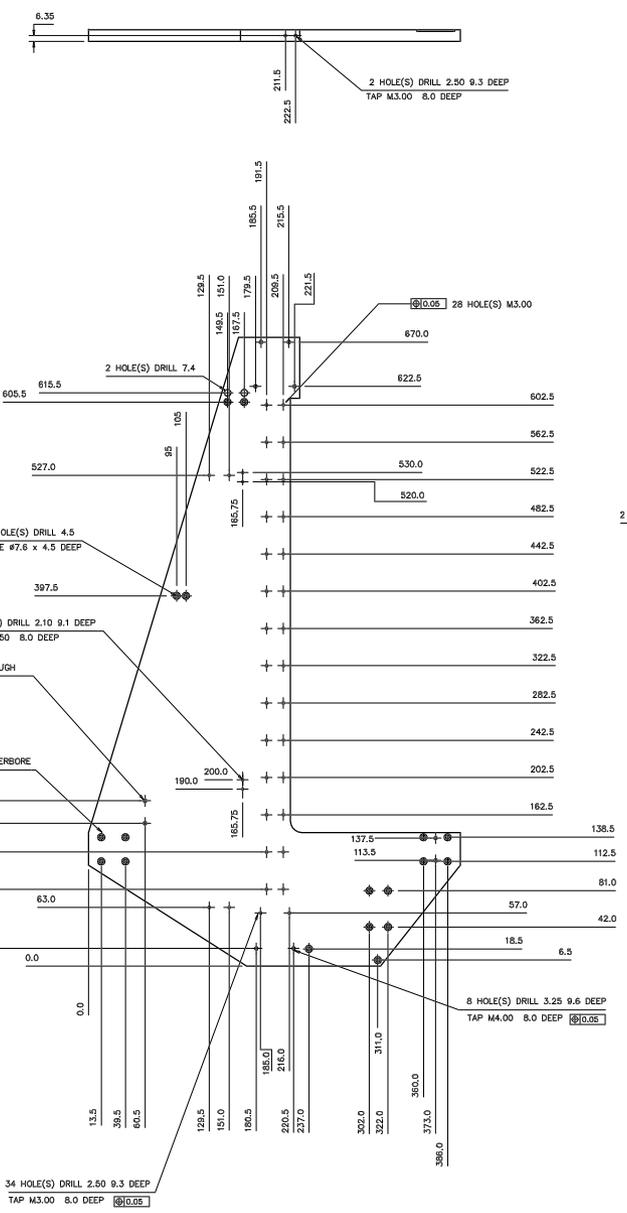
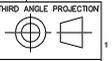


DRG. TITLE:		DETAIL OF SADDLE	
SCALES:	1:1	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, DL1 3LE TEL. (091) 374 2107 & 2108	
DRG. TYPE:	PARTS	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP.	
DRAWN BY:	G.D	DRG. SIZE:	A2
DATE:	22/11/91	DRAWING No.:	AF2\YAX-02
		REV.:	A

ISSUE	REVISION	DRN	DATE	ISSUE	REVISION	DRN	DATE

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED	
IMPLIED TOLERANCES	Material:
X (OVER 100) ± 0.20	AL TOOL PLATE
X (UP TO 100) ± 0.1	
X.X ± 0.10	
X.XX ± 0.05	
Quantity: 1 OFF	

DO NOT SCALE



DRG. TITLE:		DETAIL OF Y-AXIS CARRIER PLATE	
SCALES:	1:2	ASTRONOMICAL INSTRUMENTATION GROUP DURHAM UNIVERSITY, PHYSICS DEPARTMENT SCIENCE LABS, SOUTH ROAD, DURHAM, ENGLAND TEL: (0191) 374 8107 or 8108	
ORG. TYPE:	PARTS	REV. 02	AO
DRAWN BY:	AJ/GD	THIS DRAWING IS THE PROPERTY OF THE ASTRONOMICAL INSTRUMENTATION GROUP, DURHAM UNIVERSITY, PHYSICS DEPT. IT MUST NOT BE COPIED OR LENT WITHOUT THE CONSENT OF THE INSTRUMENTATION GROUP. DRAWING NO.	
DATE:	15/04/91	AF2\YAX-01	REV. B

ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED				Material:				
IMPLIED TOLERANCES				AL TOOL PLATE				
X (OVER 100) ±0.20				Quantity: 1 OFF				
X (UP TO 100) ±0.1								
X.X ±0.10								
X.XX ±0.05								
B	DIMENSION 622.5 WAS 615.5	GD	17/02/92	ISSUE	REVISION	GRID	DRN	DATE
ISSUE	REVISION							