

8

7

6

5

4

3

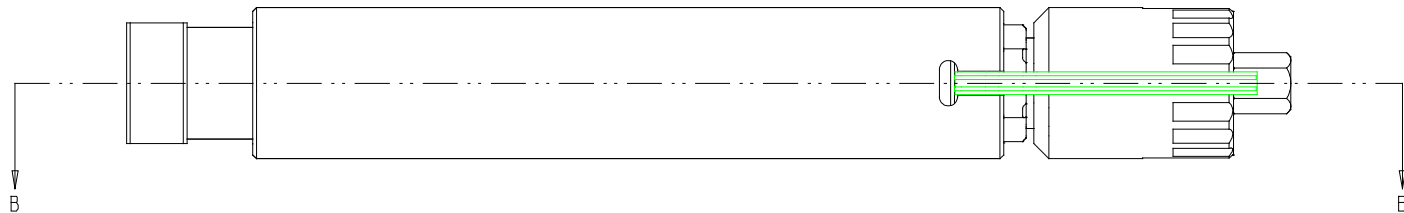
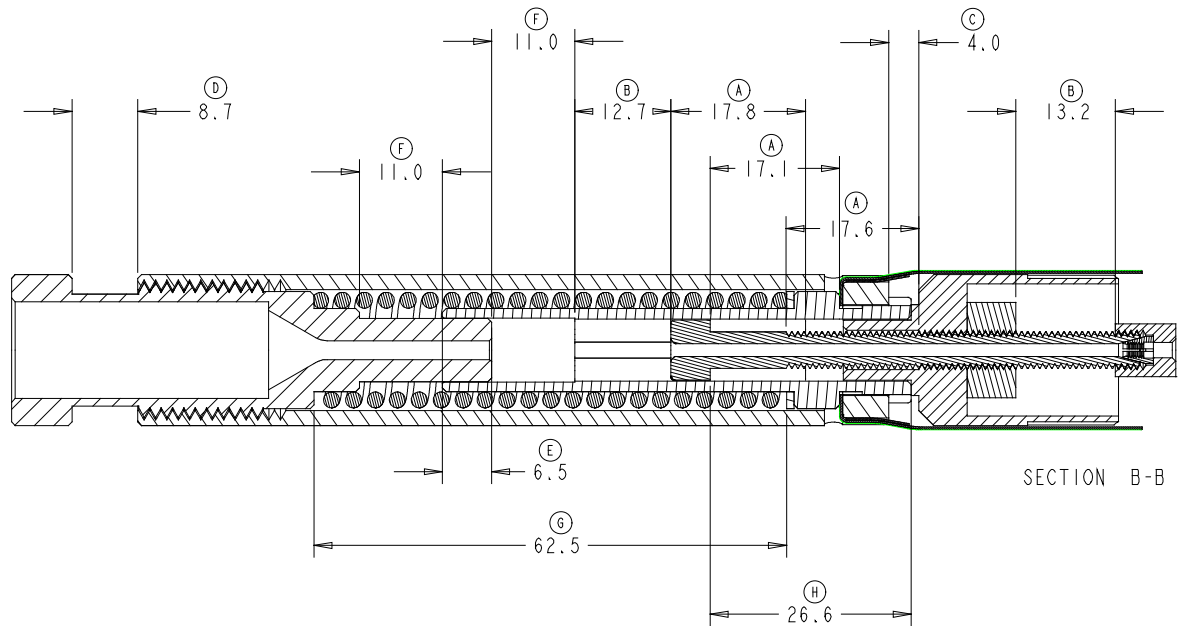
DWG. NO.
2500404SIZE
1REV.
2

SH.

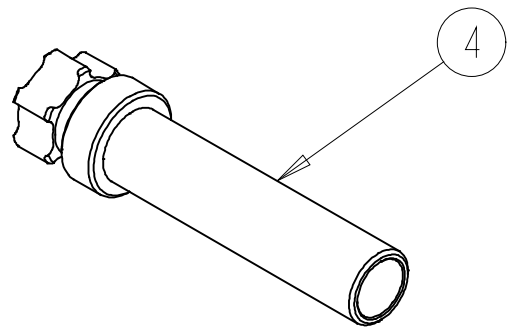
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GAP AND CLEARANCE ANALYSIS:

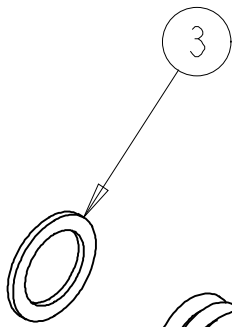
- (A) Cable tension adjustment - increase: >17 mm (9mm (beampipe align) + 5mm (cable slack) + 3mm (clearance))
- (B) Cable tension adjustment - decrease: >12 mm (9mm (beampipe align) + 3mm (clearance))
- (C) Bakeout overload motion allowance: 4mm
- (D) Spring pre-load adjustment - increase: >8mm (6mm (7kg to 10kg adjustment) + 2mm (10% spring tolerance))
- (E) Spring pre-load adjustment - decrease: >6mm (4mm (plunger pilot engagement) + 2mm (10% spring tolerance))
- (F) Spring plunger travel: >11mm (6mm (7kg to 10kg adj) + 4mm (bakeout) + 1mm (clearance))
- (G) Spring preload dimension for 7 kilogram preset
- (H) Adjuster assembly preset dimension



					UNLESS OTHERWISE SPECIFIED			SHOP ORDERS			SER			ERNEST ORLANDO LAWRENCE		
					X.X ± 0.5			ACCT NO.			NO.			BERKELEY NATIONAL LABORATORY		
					X.XX ± 0.05			DEL TO			DATE			UNIVERSITY OF CALIFORNIA - BERKELEY		
					X.XXX ± 0.01			FINISH			DATE			ATLAS PIXEL DETECTOR		
					DO NOT SCALE PRINT			SURFACE TREATMT			DATE			TENSION MECHANISM		
					THREADS ARE CLASS 2			TOLERANCE METHOD			DATE			Tension Mechanism		
					CHAMFER ENDS OF ALL SCREW THREADS 30°			PROJECT NUMBER			DATE			Microfilm:		
					CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			PROJECT NAME			DATE			DWG. TYPE		
					BREAK EDGES .016 MAX. ON MACHINED WORK			DWG BY			DATE			ASSEM		
					REMOVE BURRS, WELD SPLATTER & LOOSE SCALE			CHK BY			DATE			250030		
					IN ACCORDANCE WITH ASME Y14.5M & B46.1			APP BY			DATE			PATENT CLEAR:		
														DESIGN ACCT. NO.		
														API300		
														SCALE: 2.000		
														DO NOT SCALE PRINTS		
														SHEET 2 OF 2		
														2500404		
														1		

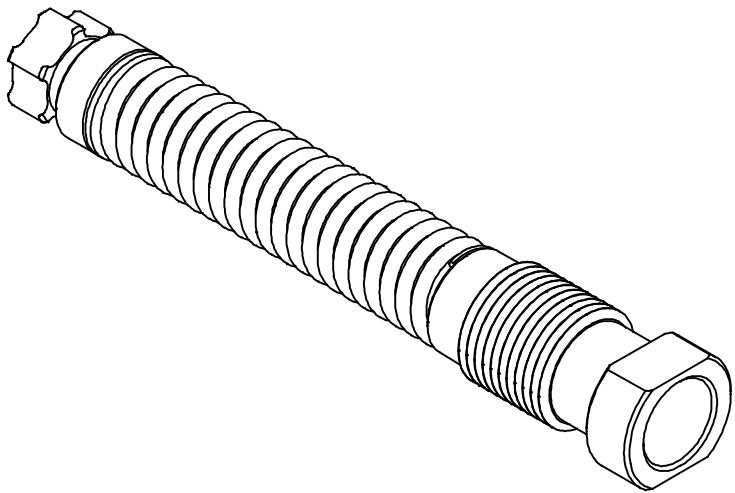


ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
4	250044		Spring Plunger	Aluminum 6061-T6
3	250045		Thrust Washer	Aluminum 6061-T6
2	ASR_C0600_081_3000_SS		Stainless Steel Compression Spring	Stainless Steel
1	250042		Mount Bushing	Aluminum 6061-T6



2

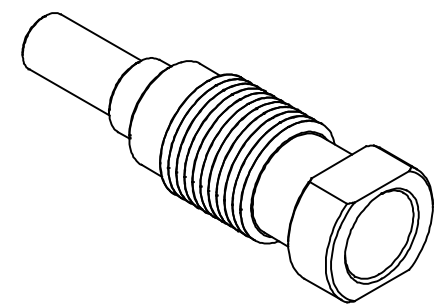
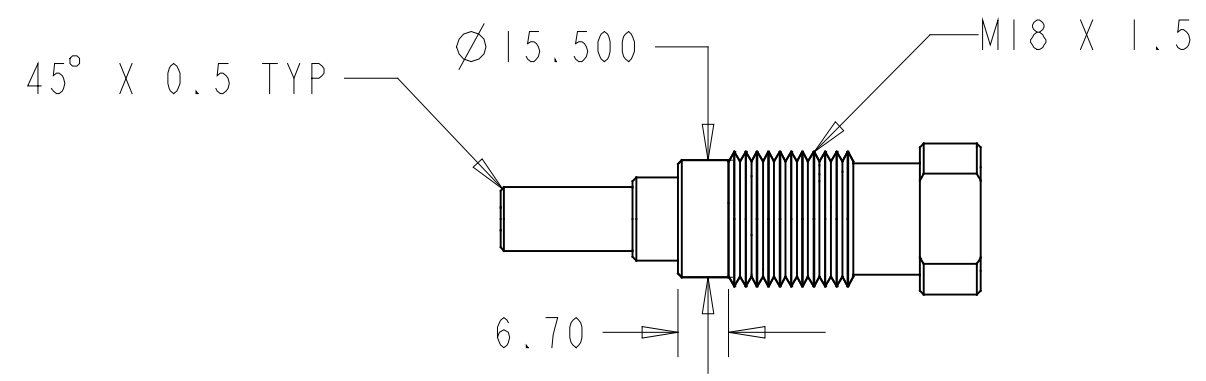
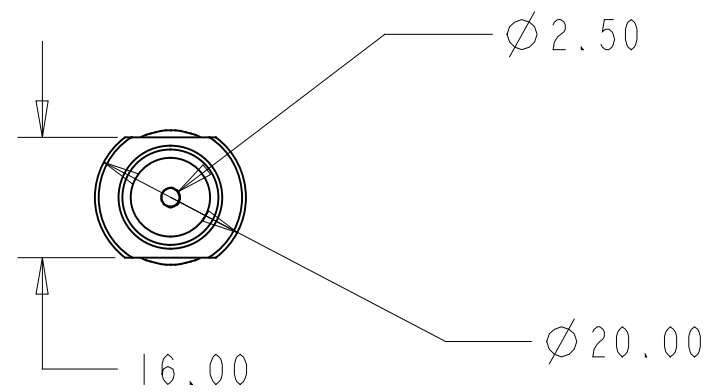
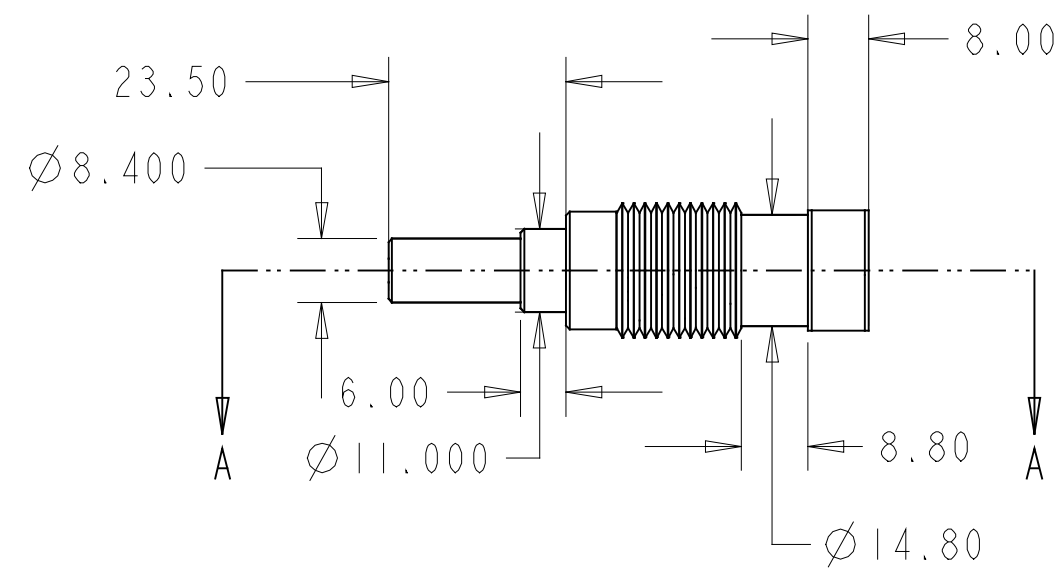
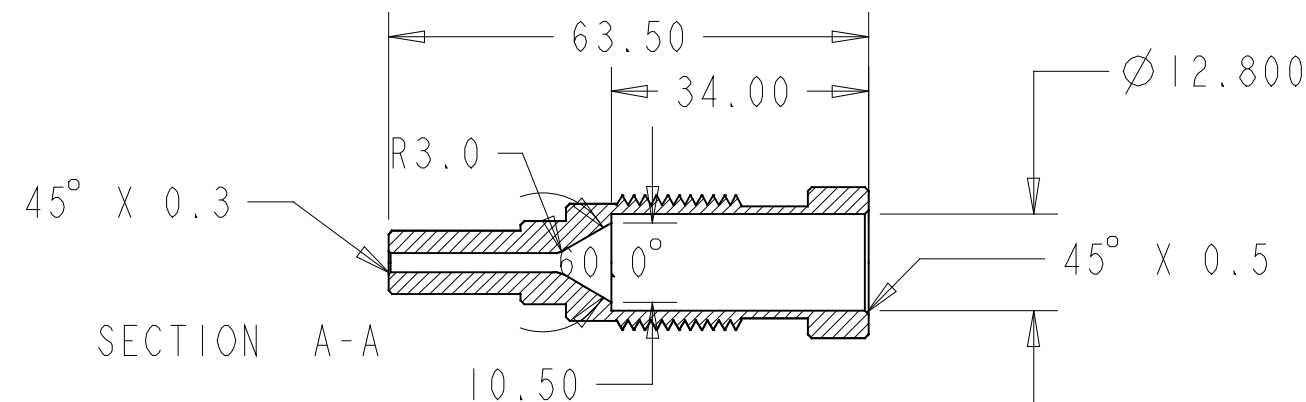
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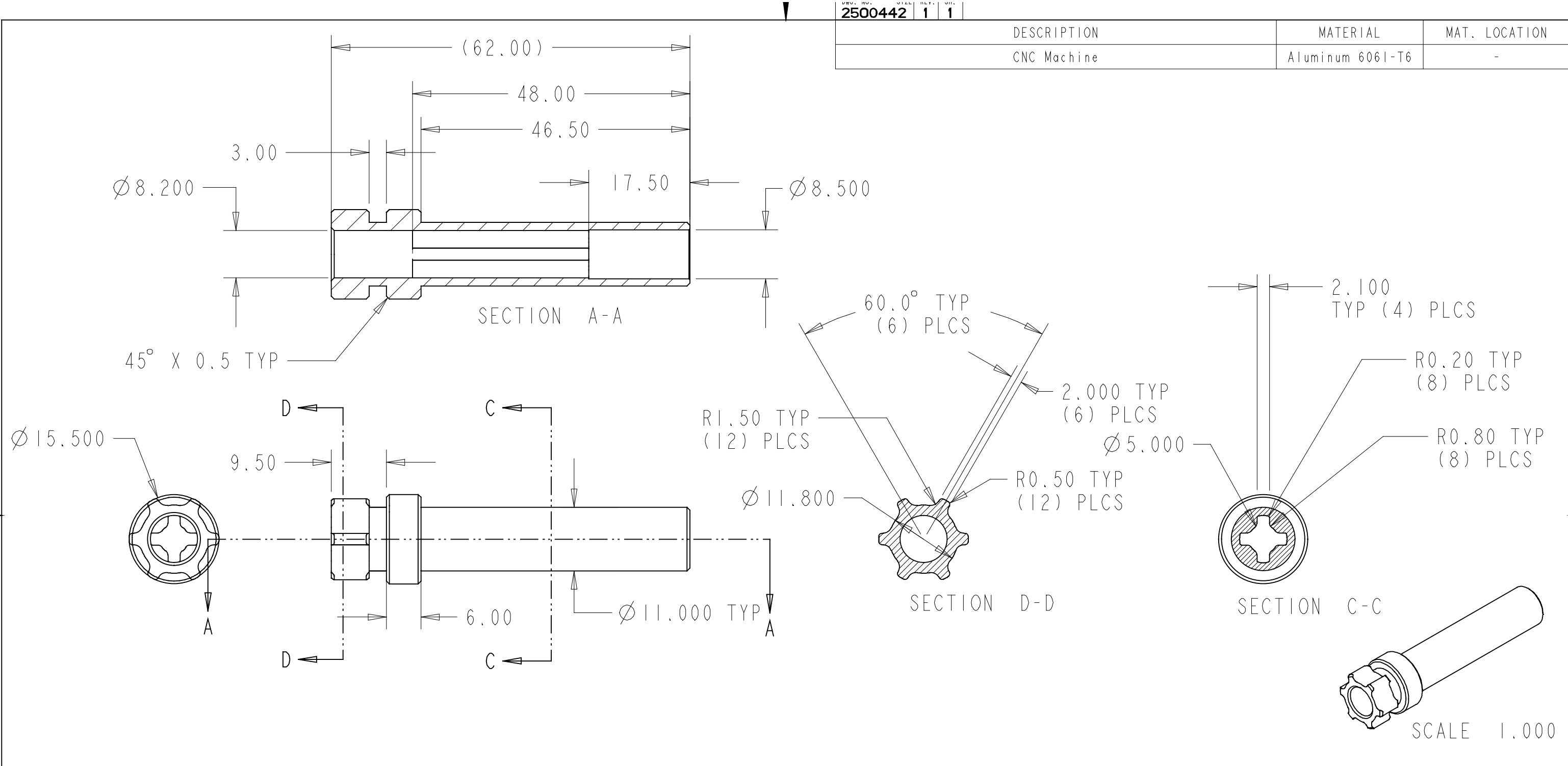
NOTE:

Compression Spring is
Catalog Number C0600-081-3000
Associated Spring Raymond SPEC Catalog
Website: www.asraymond.com

						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 				
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD 1	DATE ISSD -	ATLAS PIXEL DETECTOR TENSION MECHANISM Spring Plunger and Mount Bushing			
							X.XX ± 0.10	Angles ± 0.50°	DEL TO N Hartman	DATE REQD -					
							X.XXX ± 0.05	FINISH 125√(μin)	SURFACE TREATMT						
						DO NOT SCALE PRINT		IDENT METHOD TAG		(Logo)					
						THREADS ARE CLASS 2		PROJECT NUMBER							
						CHAMFER ENDS OF ALL SCREW TREADS 30°		PROJECT NAME							
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG BY D Uken		DATE 21-Mar-03	MICROFILMED:	DWG. TYPE ASSEM	SHOWN ON 250043	SCALE: 1.000	DO NOT SCALE PRINTS SHEET 1 OF 1
						BREAK EDGES .016 MAX. ON MACHINED WORK		CHK BY N Hartman		DATE					
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR BY E Anderssen		DATE	PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE API300	DWG. NO. 2500412	SIZE REV. 1
REV	DWG	CHK	ZONE	DATE	CHANGES	IN ACCORDANCE WITH ASME Y14.5M & B46.1									

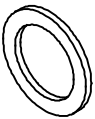
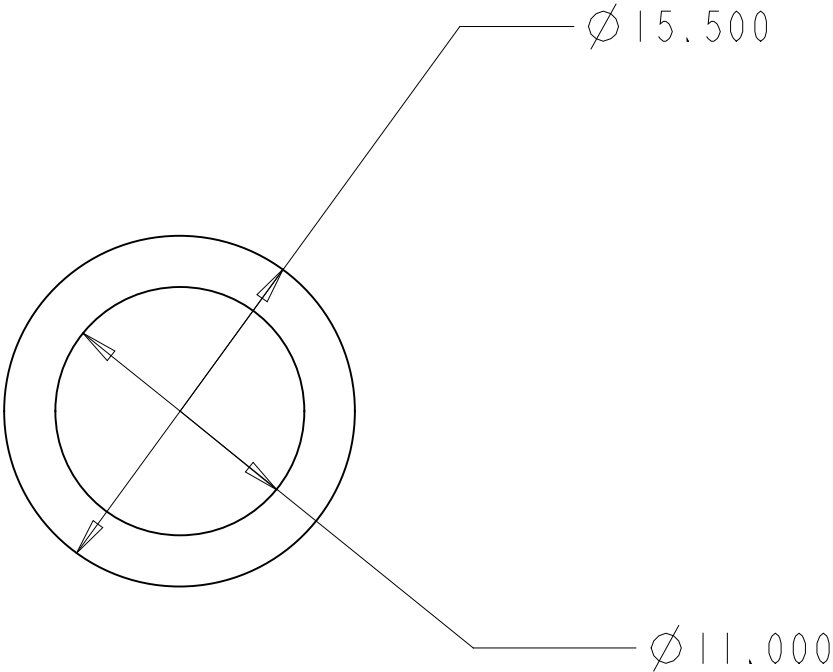
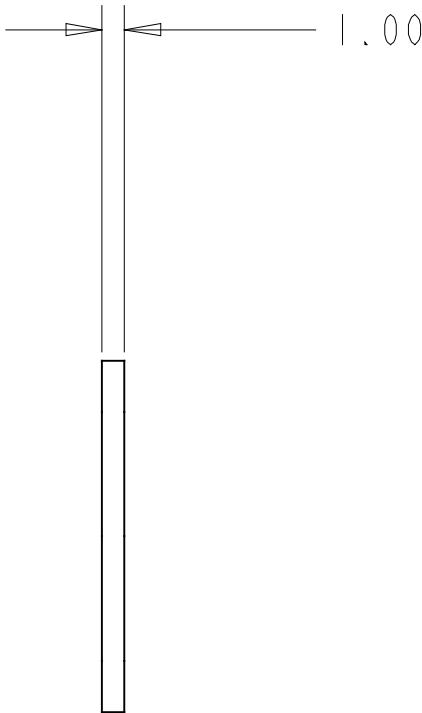


						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO.	-	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 												
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD	1	DATE ISSD	-											
							X.XX ± 0.10	Angles ± 0.50°	DEL TO	N Hartman		DATE REQD	-											
							X.XXX ± 0.05	FINISH 125√(μin)	SURFACE TREATMT Gold Anodize															
						DO NOT SCALE PRINT THREADS ARE CLASS 2 CHAMFER ENDS OF ALL SCREW TREADS 30° CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS BREAK EDGES .016 MAX. ON MACHINED WORK REMOVE BURRS, WELD SPLATTER & LOOSE SCALE IN ACCORDANCE WITH ASME Y14.5M & B46.1			IDENT METHOD TAG				ATLAS PIXEL DETECTOR TENSION MECHANISM Mount Bushing											
									PROJECT NUMBER		(logo)													
									PROJECT NAME															
									DWG BY D Uken		DATE 21-Mar-03		MICROFILMED:		DWG. TYPE PART		SHOWN ON 250041		SCALE: 1.000		DO NOT SCALE PRINTS			
									CHK BY N Hartman		DATE		PATENT CLEAR:				CATEGORY CODE		DWG. NO.		SIZE		REV.	
REV	DWG	CHK	ZONE	DATE	CHANGES					APR BY E Anderssen		DATE				DESIGN ACCT. NO.		AP1300		2500422		1		



						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Spring Plunger				
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD					DATE ISSD -
							X.XX ± 0.10	Angles ± 0.50°	DEL TO N Hartman						DATE REQD -
							X.XXX ± 0.05	FINISH 125√(μin)	SURFACE TREATMT Blue Anodize						
						DO NOT SCALE PRINT		IDENT METHOD TAG		(Logo)	MICROFILMED: DWG. TYPE PART SHOWN ON 250041 SCALE: 1.500 DO NOT SCALE PRINTS				
					THREADS ARE CLASS 2			PROJECT NUMBER							
					CHAMFER ENDS OF ALL SCREW TREADS 30°			PROJECT NAME							
					CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG BY D Uken							
						BREAK EDGES .016 MAX. ON MACHINED WORK		CHK BY N Hartman		DATE 21-Mar-03	PATENT CLEAR:	DESIGN ACCT. NO. AP1300	CATEGORY CODE	DWG. NO. 2500442 SIZE 1	REV. 1
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR BY E Anderssen		DATE					
REV	DWG	CHK	ZONE	DATE	CHANGES		IN ACCORDANCE WITH ASME Y14.5M & B46.1								

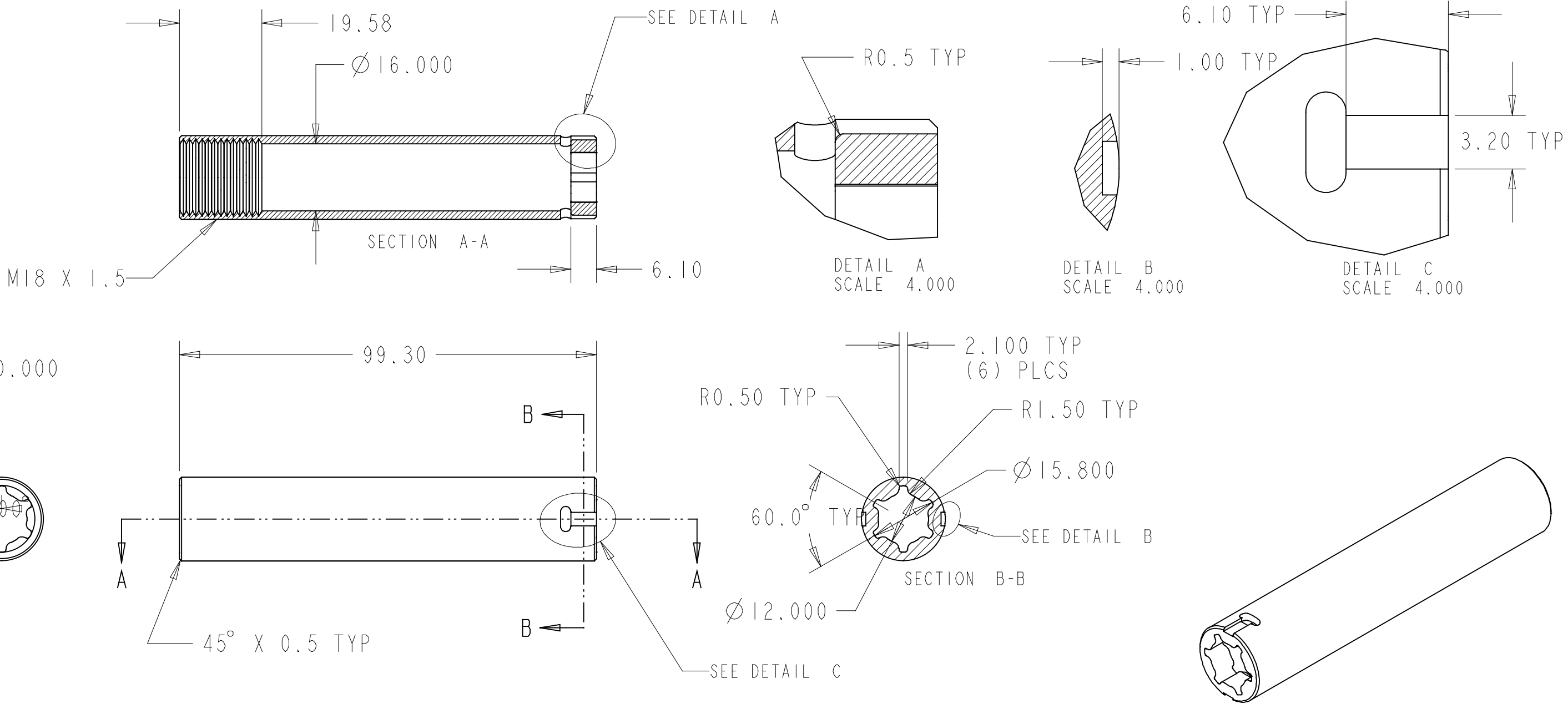
DESCRIPTION	MATERIAL	MAT. LOCATION
	Aluminum 6061-T6	-



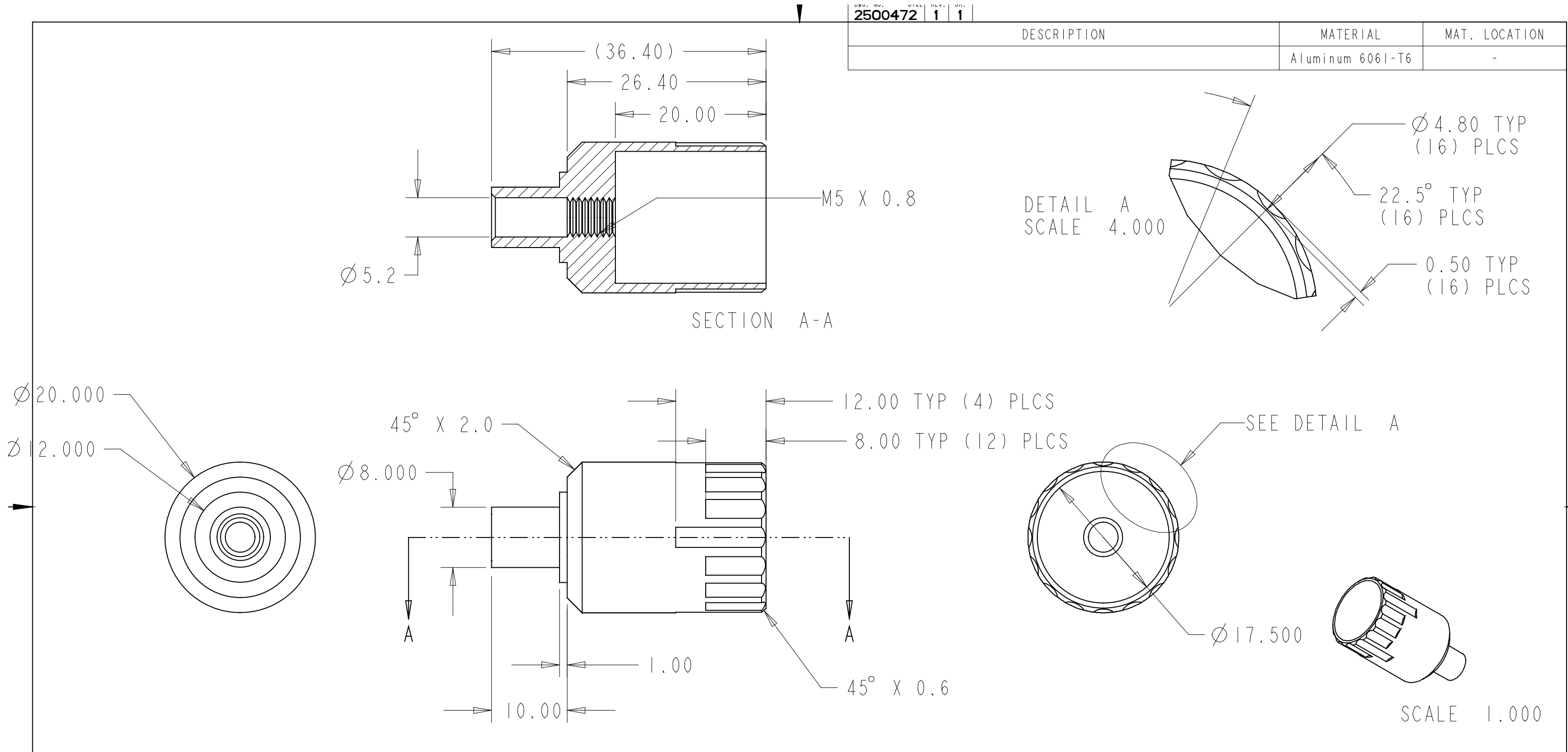
SCALE 1.000

						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Thrust Washer							
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD					DATE ISSD -			
							X.XX ± 0.10	Angles ± 0.50°	DEL TO	N Hartman					DATE REQD -			
							X.XXX ± 0.05	FINISH 125√(min)	SURFACE TREATMT Hard Anodize									
						DO NOT SCALE PRINT		IDENT METHOD TAG		(logo)								
						THREADS ARE CLASS 2		PROJECT NUMBER										
						CHAMFER ENDS OF ALL SCREW TREADS 30°		PROJECT NAME										
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG BY		D Uken	DATE	21-Mar-03	MICROFILMED:	DWG. TYPE PART	SHOWN ON 250041	SCALE: 3.000	DO NOT SCALE PRINTS	
						BREAK EDGES .016 MAX. ON MACHINED WORK		CHK BY		N Hartman	DATE					SHEET 1 OF 1		
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR BY		E Anderssen	DATE							
REV	DWG	CHK	ZONE	DATE	CHANGES	IN ACCORDANCE WITH ASME Y14.5M & B46.1							PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE AP1300	DWG. NO. 2500452	SIZE 1	REV. 1

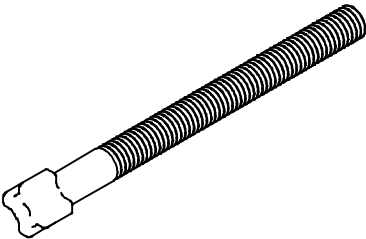
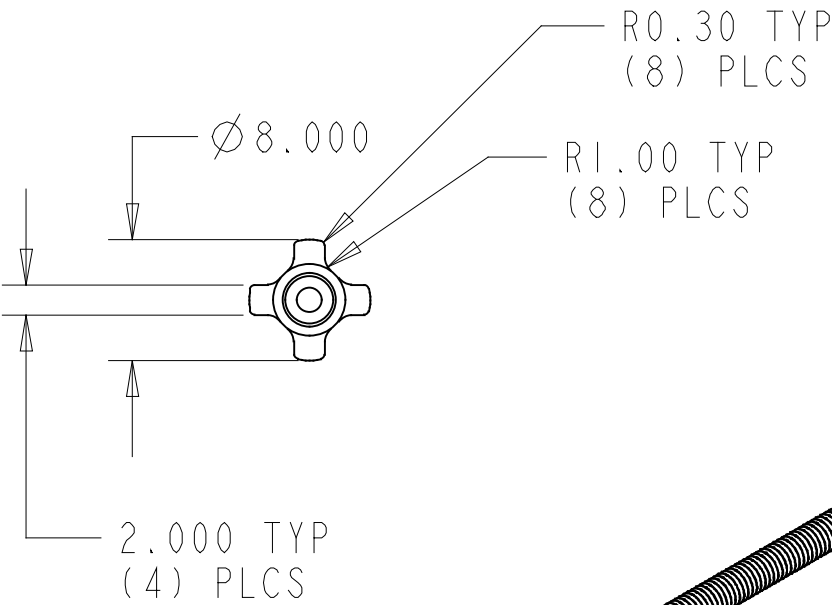
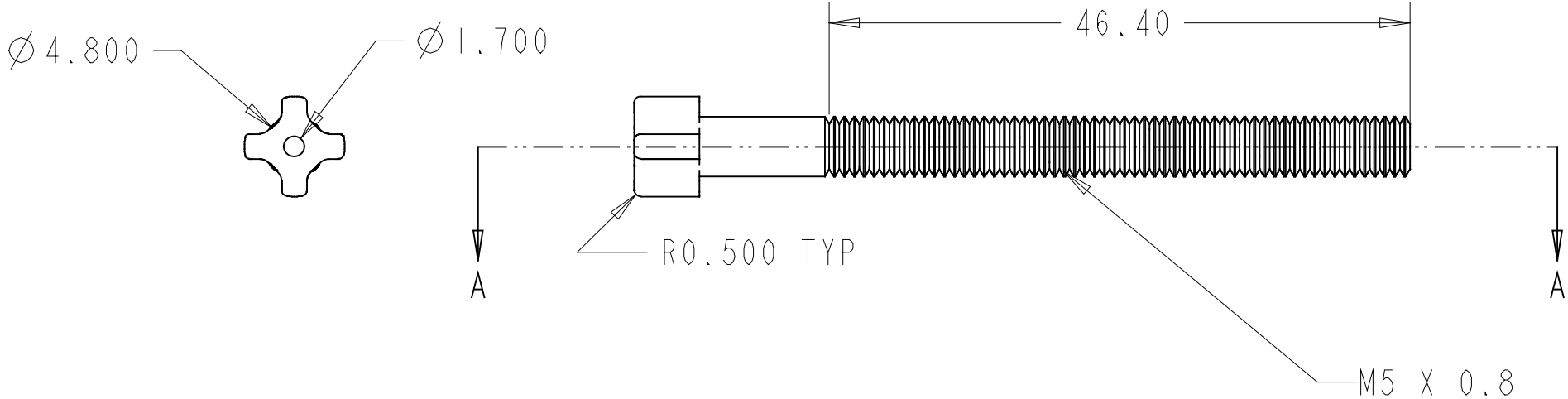
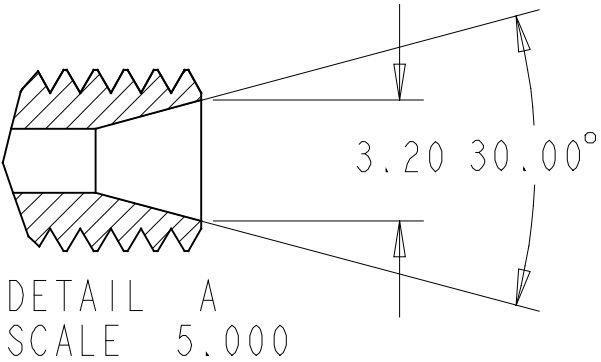
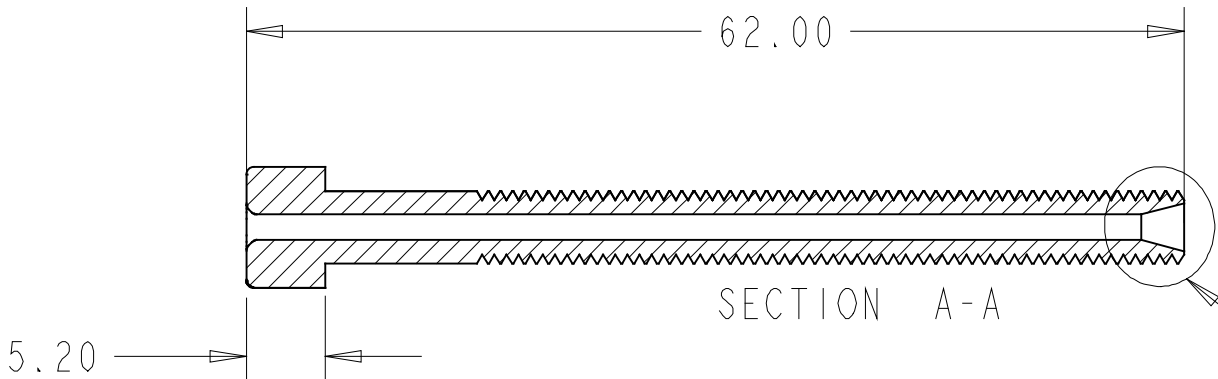
DESCRIPTION	MATERIAL	MAT. LOCATION
CNC Machine, Wire EDM	Aluminum 6061-T6	-



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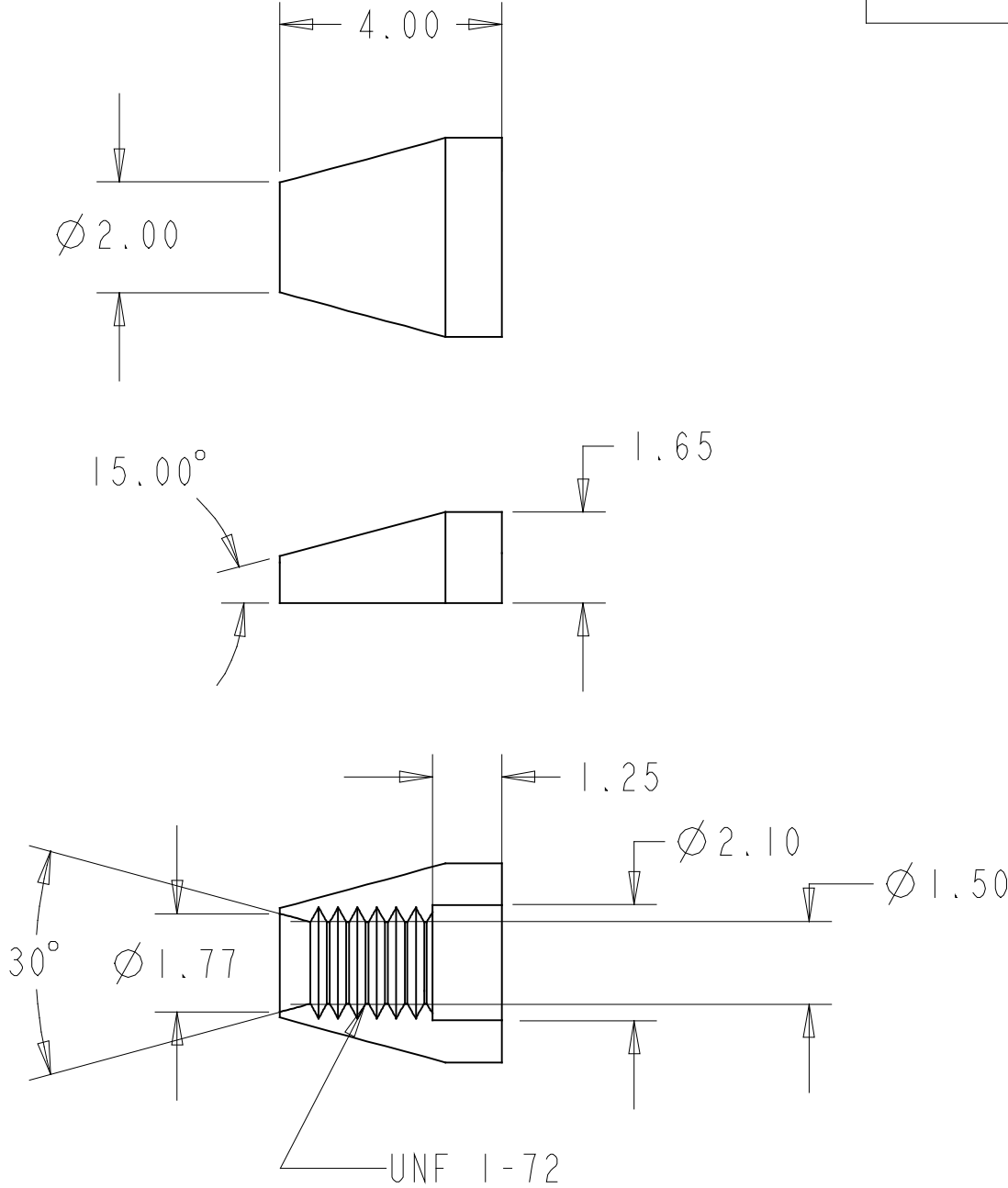


						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Tension Adjuster				
						TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO. REQD 1	DATE ISSD -				
							X.XX ± 0.01	Angles ± 0.50°	DEL TO N Hartman		DATE REQD -				
							X.XXX ± 0.001	FINISH 125√(μin)	SURFACE TREATMT Blue Anodize						
						DO NOT SCALE PRINT THREADS ARE CLASS 2 CHAMFER ENDS OF ALL SCREW TREADS 30° CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS BREAK EDGES .016 MAX. ON MACHINED WORK REMOVE BURRS, WELD SPLATTER & LOOSE SCALE IN ACCORDANCE WITH ASME Y14.5M & B46.1			IDENT METHOD TAG						
							PROJECT NUMBER								
							PROJECT NAME								
							DWG BY D Uken		DATE 28-Mar-03		MICROFILMED:	DWG. TYPE PART	SHOWN ON 250084	SCALE: 2.000	DO NOT SCALE PRINTS
							CHK BY N Hartma		DATE					PATENT CLEAR:	DESIGN ACCT. NO.
REV	DWG	CHK	ZONE	DATE	CHANGES	APR BY E Anderssen		DATE					DWG. NO. 2500472		



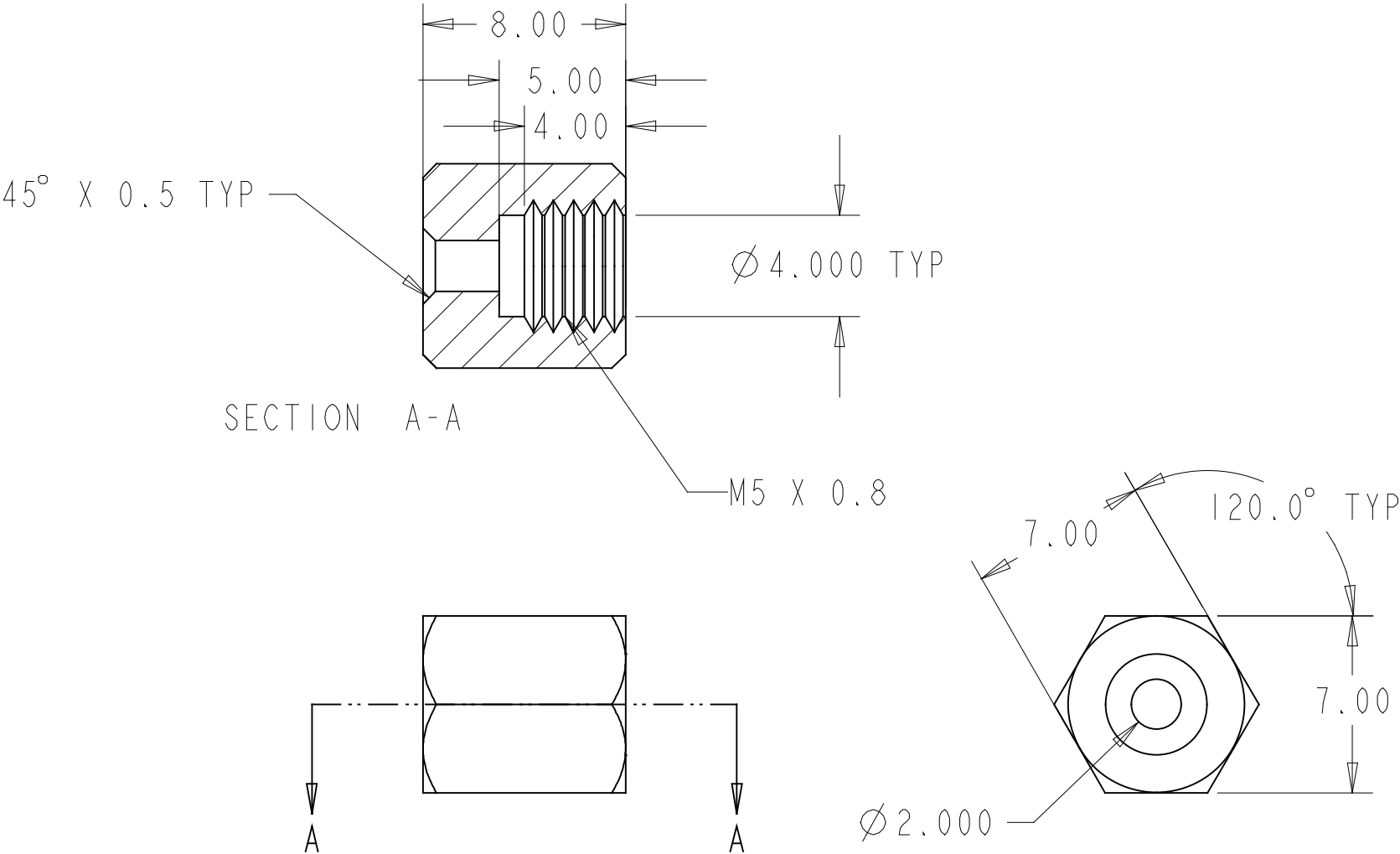
SCALE 1.000

						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Collet Holder Screw							
						TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO. REQD 2					DATE ISSD -			
							X.XX ± 0.01	Angles ± 0.50°	DEL TO N Hartman						DATE REQD -			
							X.XXX ± 0.001	FINISH 125√(μin)	SURFACE TREATMT									
						DO NOT SCALE PRINT		IDENT METHOD TAG		(Logo)		MICROFILMED:		DWG. TYPE	SHOWN ON	SCALE: 2.000	DO NOT SCALE PRINTS	
						THREADS ARE CLASS 2		PROJECT NUMBER										
						CHAMFER ENDS OF ALL SCREW TREADS 30°		PROJECT NAME		DATE 28-Mar-03		PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE	REV.	
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG BY D Uken										
						BREAK EDGES .016 MAX. ON MACHINED WORK		CHK BY N Hartman		DATE				API300	2500482		1	
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR BY E Anderssen		DATE								
REV	DWG	CHK	ZONE	DATE	CHANGES		IN ACCORDANCE WITH ASME Y14.5M & B46.1											

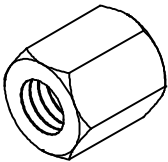


SCALE 5.000

						UNLESS OTHERWISE SPECIFIED	SHOP ORDERS	SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Collet Cable Grip				
						TOLERANCES	ACCT NO. NO. REQD 8	DATE ISSD -					
							DEL TO N Hartman	DATE REQD -					
									(logo)				
						DO NOT SCALE PRINT			MICROFILMED: DWG. TYPE PART SHOWN ON 250040 SCALE: 8.000 DO NOT SCALE PRINTS				
						THREADS ARE CLASS 2							
						CHAMFER ENDS OF ALL SCREW TREADS 30°							
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			PATENT CLEAR: DESIGN ACCT. NO. API300				
						BREAK EDGES .016 MAX. ON MACHINED WORK							
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE							
REV	DWG	CHK	ZONE	DATE	CHANGES	IN ACCORDANCE WITH ASME Y14.5M & B46.1	APR BY E Anderssen	DATE	DWG. NO. 2500492 SIZE 1				



SCALE 2.000



						UNLESS OTHERWISE SPECIFIED	SHOP ORDERS	SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Collet Cap				
						TOLERANCES	ACCT NO. NO. REQD 2	DATE ISSD -					
							DEL TO N Hartman	DATE REQD -					
						DO NOT SCALE PRINT	IDENT METHOD TAG						
						THREADS ARE CLASS 2	PROJECT NUMBER						
						CHAMFER ENDS OF ALL SCREW TREADS 30°	PROJECT NAME						
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	DWG BY D Uken	DATE 24-Mar-03					
						BREAK EDGES .016 MAX. ON MACHINED WORK	CHK BY N Hartman	DATE					
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	APR BY E Anderssen	DATE					
						IN ACCORDANCE WITH ASME Y14.5M & B46.1							
REV	DWG	CHK	ZONE	DATE	CHANGES								

Microfilmed:

DWG. TYPE

Shown On

Scale: 4.000

DO NOT SCALE PRINTS

Part

250040

SHEET 1 OF 1

Patent Clear:

Design Acct. No.

Category Code

DWG. NO.

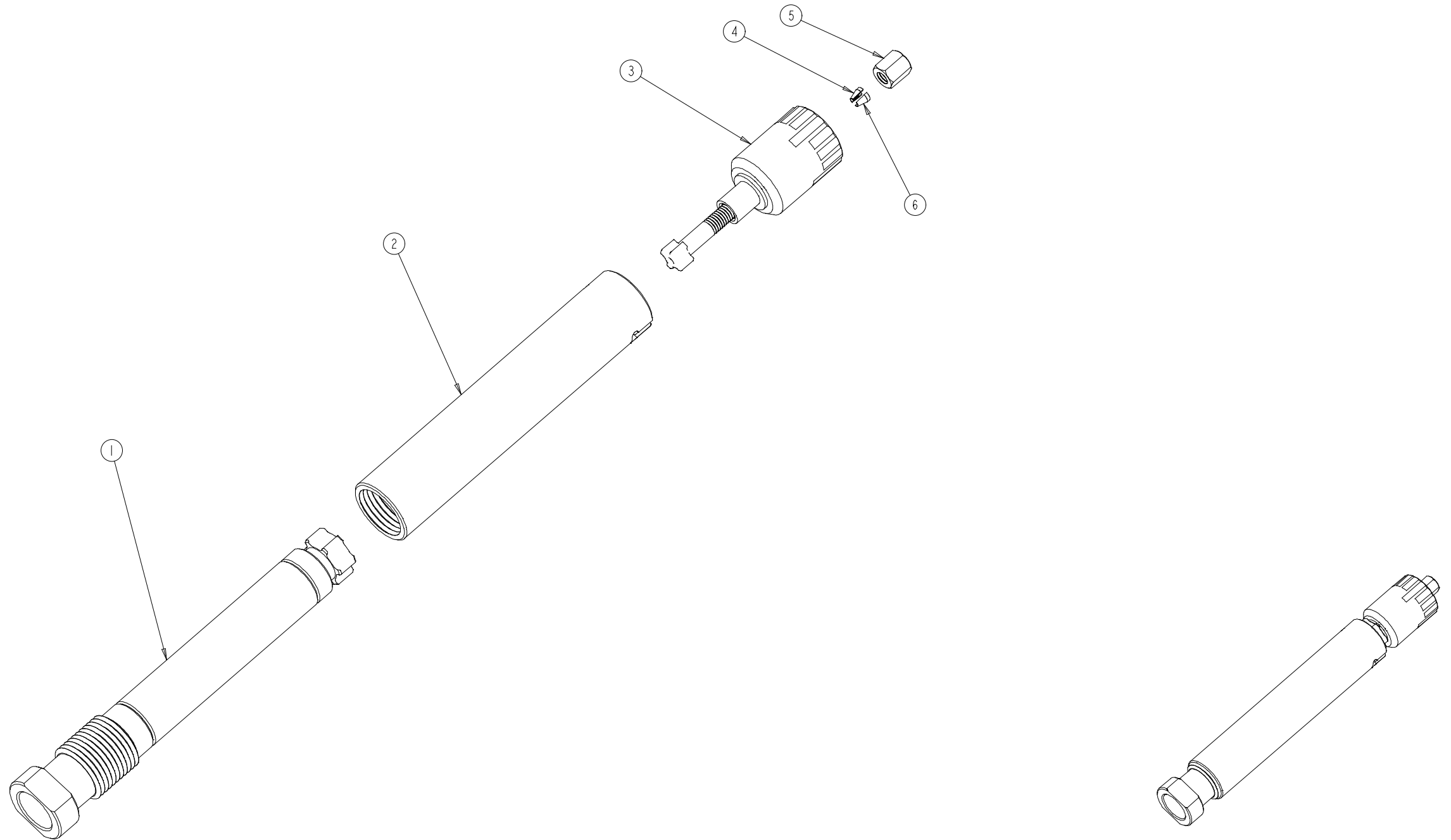
Size

Rev.

2500502

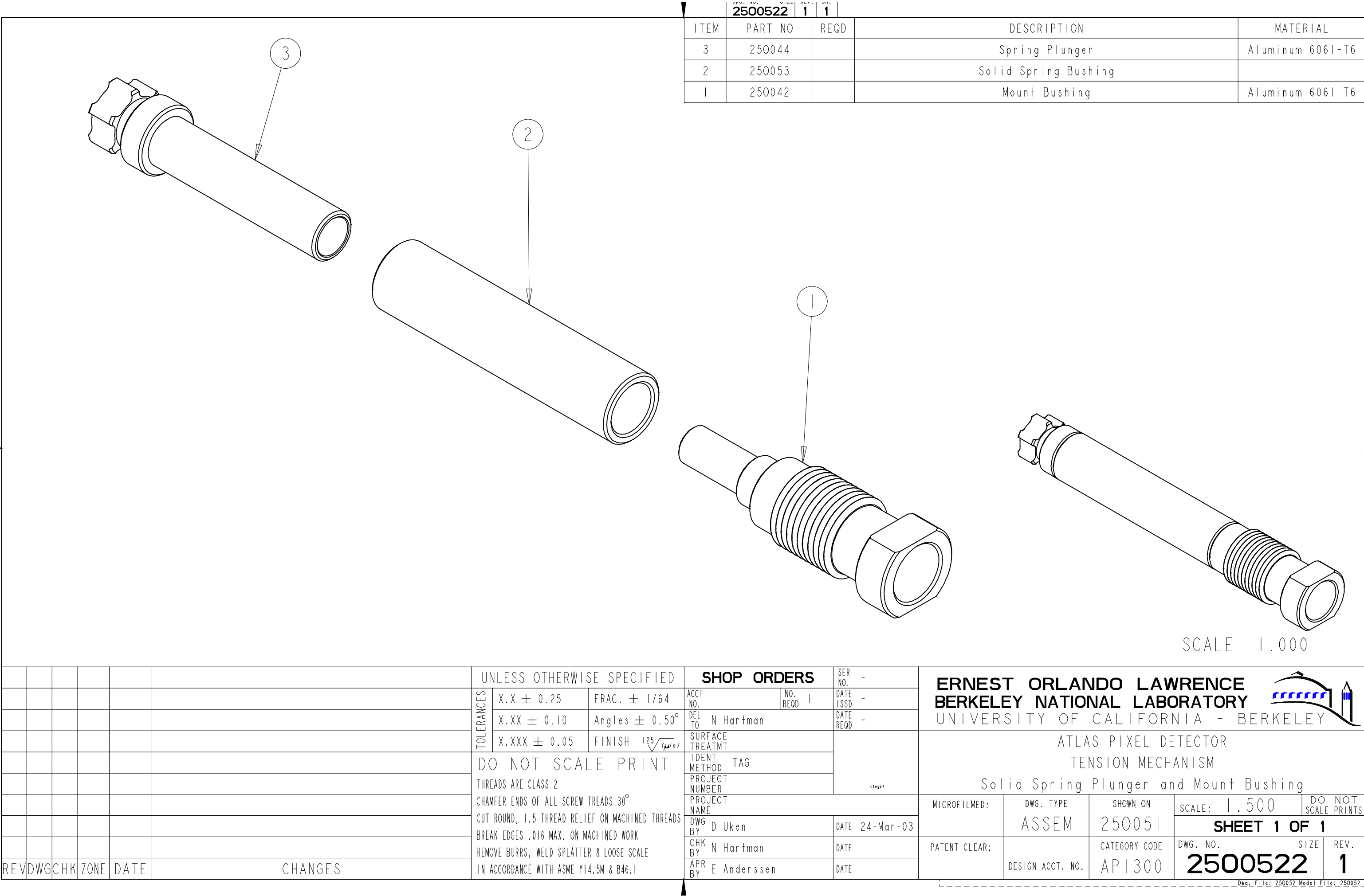
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	DWG. NO. 2500514		SIZE 1	REV. 1	SH.		1
ITEM	PART NO	RECD	DESCRIPTION			MATERIAL	
6	250049		Collet Cable Grip			Aluminum 6061-T6	
5	250050		Collet Cap			304 Stainless Steel	
4	250049		Collet Cable Grip			Aluminum 6061-T6	
3	250084		Adjuster Assembly				
2	250046		Spring Plunger Retainer			Aluminum 6061-T6	
1	250052		Solid Spring Plunger and Mount Bushing				



SCALE 1.000

[illegible]



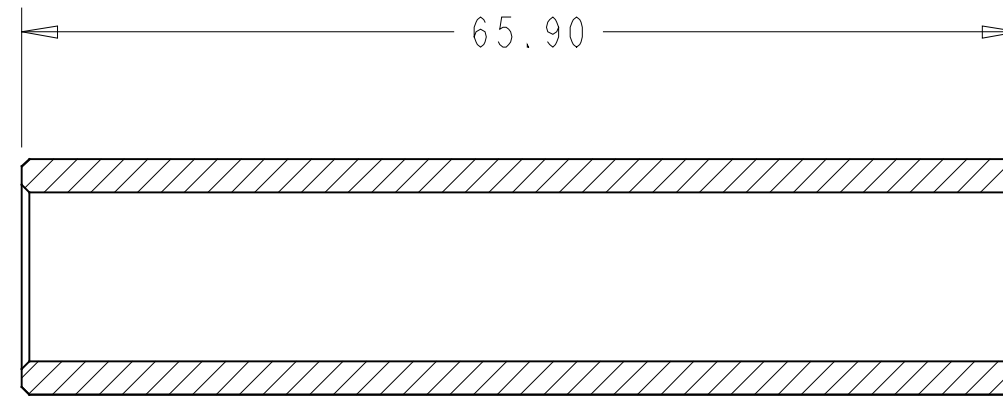
ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
3	250044		Spring Plunger	Aluminum 6061-T6
2	250053		Solid Spring Bushing	
1	250042		Mount Bushing	Aluminum 6061-T6

SCALE 1.000

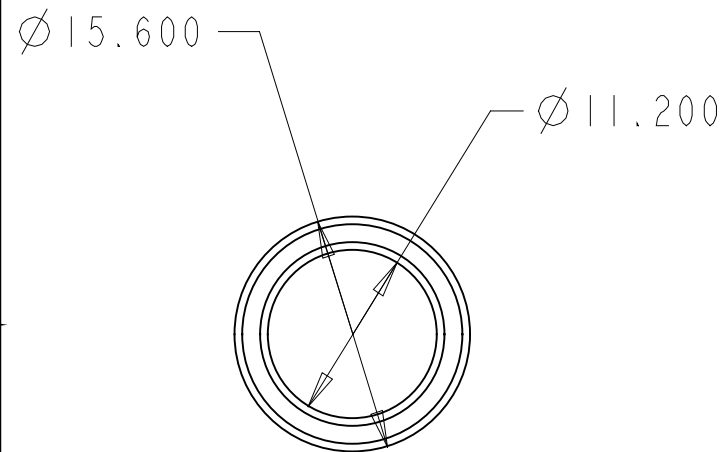
						UNLESS OTHERWISE SPECIFIED	SHOP ORDERS	SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Solid Spring Plunger and Mount Bushing				
						TOLERANCES	ACCT NO. NO. REQD 1	DATE ISSD -					
							DEL TO N Hartman	DATE REQD -					
							SURFACE TREATMT						
						DO NOT SCALE PRINT	IDENT METHOD TAG		MICROFILMED: DWG. TYPE ASSEM SHOWN ON 250051 SCALE: 1.500 DO NOT SCALE PRINTS				
						THREADS ARE CLASS 2	PROJECT NUMBER						
						CHAMFER ENDS OF ALL SCREW TREADS 30°	PROJECT NAME						
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	DWG BY D Uken	DATE 24-Mar-03					
						BREAK EDGES .016 MAX. ON MACHINED WORK	CHK BY N Hartman	DATE	PATENT CLEAR: DESIGN ACCT. NO. AP1300 DWG. NO. 2500522 SIZE 1				
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	APR BY E Anderssen	DATE					
REV	DWG	CHK	ZONE	DATE	CHANGES	IN ACCORDANCE WITH ASME Y14.5M & B46.1							

DRG. NO.	SIZE	REV.	QTY.
2500532		1	1

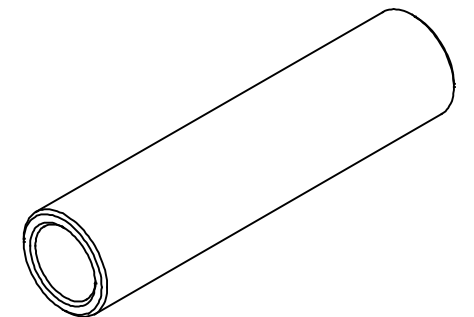
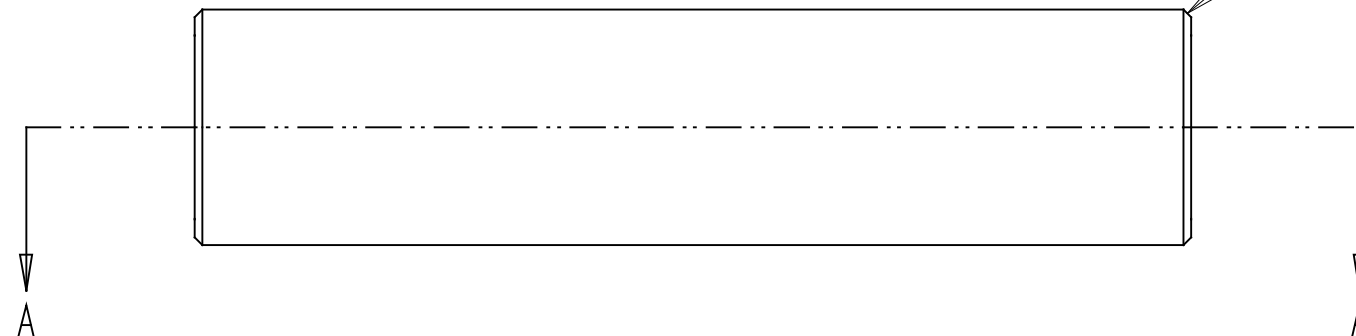
DESCRIPTION	MATERIAL	MAT. LOCATION
	Aluminum 6061-T6	-



SECTION A-A



- 45° X 0.50 TYP



SCALE 1.000

						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY							
						TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO. REQD 1	DATE ISSD -	ATLAS PIXEL DETECTOR TENSION MECHANISM Solid Spring Bushing						
							X.XX ± 0.01	Angles ± 0.50°	DEL TO N Hartman	DATE REQD -								
							X.XXX ± 0.001	FINISH $\sqrt[125]{\mu in}$	SURFACE TREATMT									
						DO NOT SCALE PRINT THREADS ARE CLASS 2 CHAMFER ENDS OF ALL SCREW TREADS 30° CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS BREAK EDGES .016 MAX. ON MACHINED WORK REMOVE BURRS, WELD SPLATTER & LOOSE SCALE IN ACCORDANCE WITH ASME Y14.5M & B46.1	IDENT METHOD TAG		(logo)		MICROFILMED: DWG. TYPE PART SHOWN ON 250052 SCALE: 2.000 DO NOT SCALE PRINTS							
							PROJECT NUMBER											
							PROJECT NAME	DATE 28-Mar-03										
							DWG BY D Uken											
							CHK BY N Hartman	DATE										
							APR BY E Anderssen	DATE			PATENT CLEAR:	DESIGN ACCT. NO. API300	CATEGORY CODE	DWG. NO. 2500532	SIZE	REV. 1		
REV	DWG	CHK	ZONE	DATE	CHANGES											2500532		1