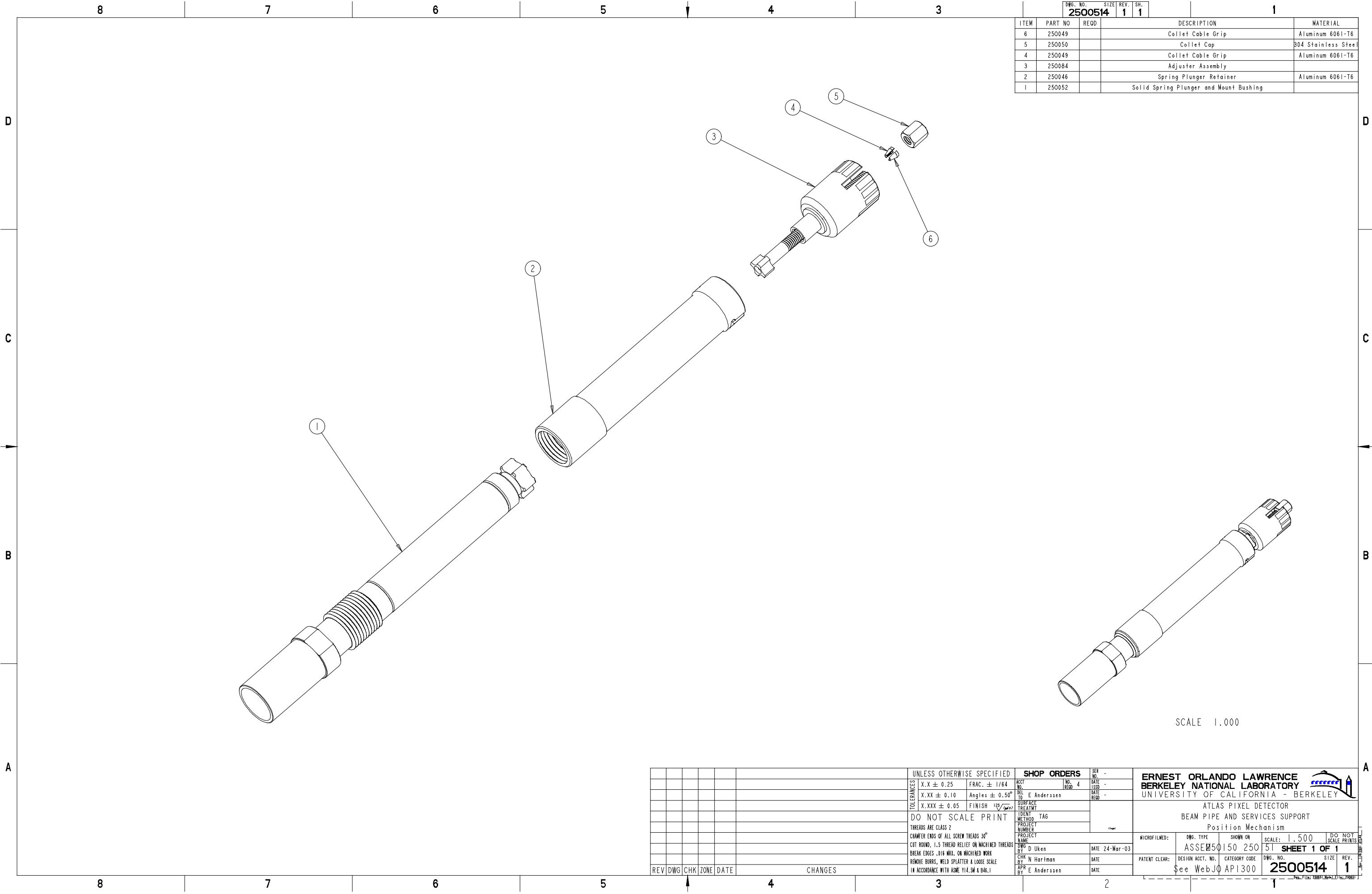
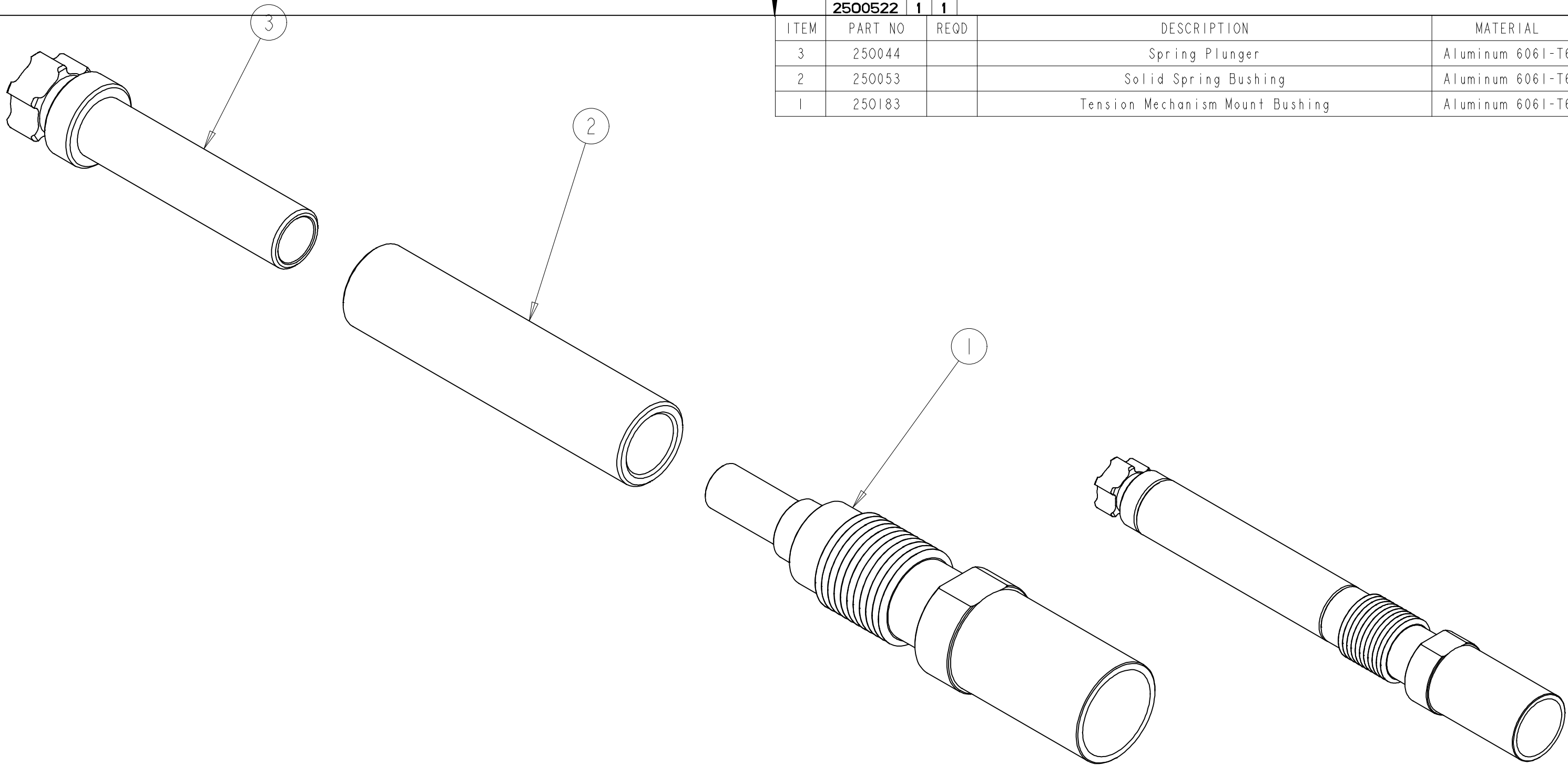




DWG. NO.		SIZE	REV.	SH.		
2500514		1	1		1	
ITEM	PART NO	REQD	DESCRIPTION		MATERIAL	
6	250049		Collet Cable Grip		Aluminum 6061-T6	
5	250050		Collet Cap		304 Stainless Steel	
4	250049		Collet Cable Grip		Aluminum 6061-T6	
3	250084		Adjuster Assembly			
2	250046		Spring Plunger Retainer		Aluminum 6061-T6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

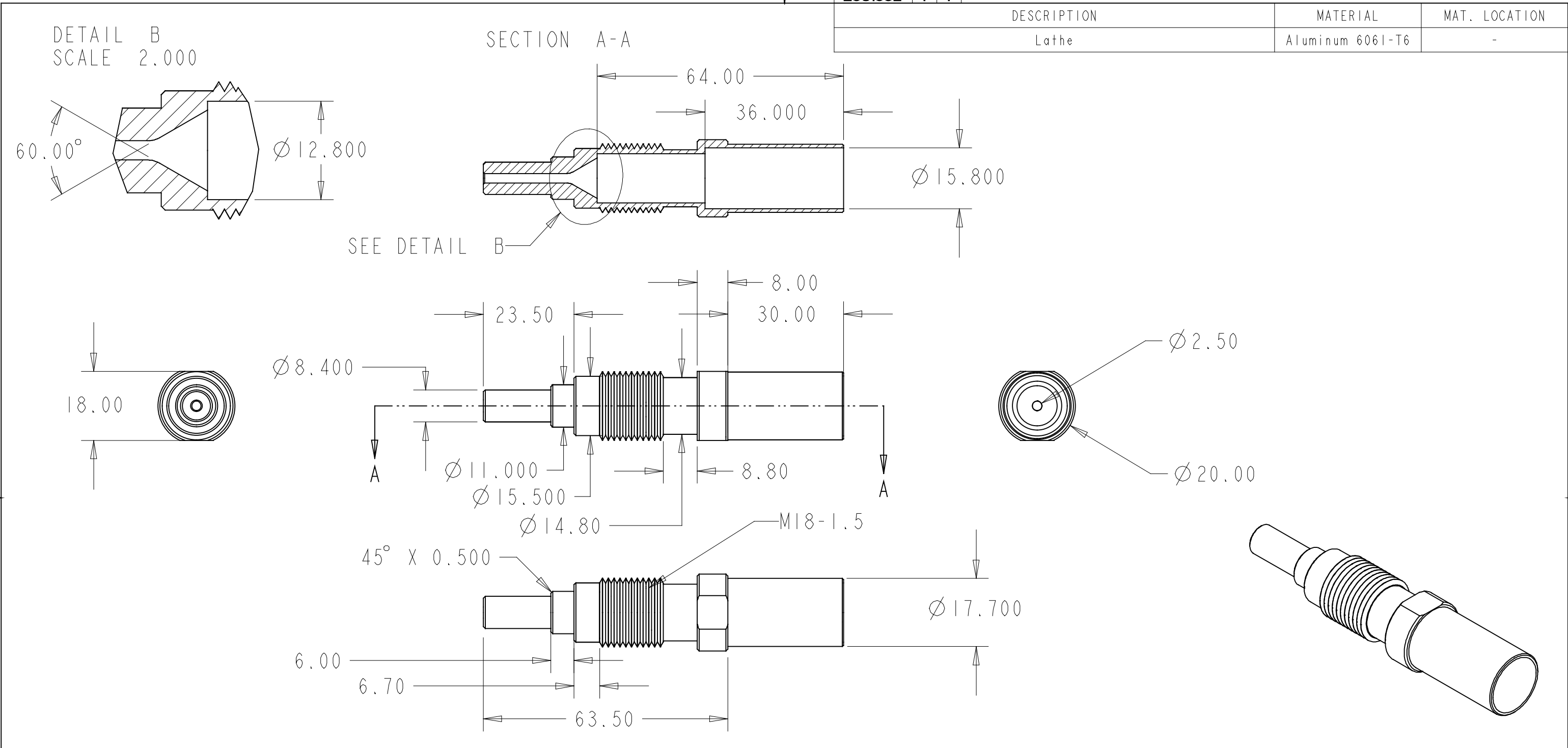
					UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	
					X.X ± 0.25		FRAC. ± 1/64		ACCT NO. NO. REC'D 4	
					X.XX ± 0.10		Angles ± 0.50°		DATE LSSD -	
					X.XXX ± 0.05		FINISH 125/32		DATE REQD -	
					DO NOT SCALE PRINT		SURFACE TREATMENT			
					THREADS ARE CLASS 2		IDENT METHOD TAG			
					CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NUMBER			
					CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		PROJECT NAME			
					BREAK EDGES .016 MAX. ON MACHINED WORK		DWG BY D Uken		DATE 24-Mar-03	
					REMOVE BURRS, WELD SPATTER & LOOSE SCALE		CHK BY N Hartman		DATE	
					IN ACCORDANCE WITH ASME Y14.5M & B46.1		APR BY E Anderssen		DATE	

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
3	250044		Spring Plunger	Aluminum 6061-T6
2	250053		Solid Spring Bushing	Aluminum 6061-T6
1	250183		Tension Mechanism Mount Bushing	Aluminum 6061-T6



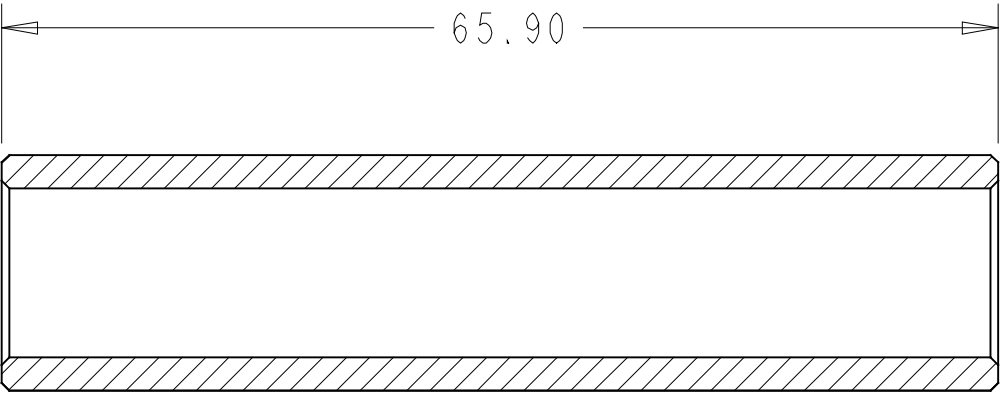
SCALE 1.000

						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 					
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD 1	DATE ISSD -	ATLAS PIXEL DETECTOR TENSION MECHANISM Solid Spring Plunger and Mount Bushing				
							X.XX ± 0.10	Angles ± 0.50°	DEL TO N Hartman		DATE REQD -					
							X.XXX ± 0.05	FINISH 125 $\sqrt{\text{in}}$	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)					
									PROJECT NUMBER							
							PROJECT NAME				MICROFILMED:		DWG. TYPE ASSEM	SHOWN ON 250051	SCALE: 1.500	DO NOT SCALE PRINTS SHEET 1 OF 1
							DWG BY D Uken		DATE 24-Mar-03							
							CHK BY N Hartman		DATE		PATENT CLEAR:		DESIGN ACCT. NO.	CATEGORY CODE API300	DWG. NO. 2500522	SIZE 1
REV	DWG	CHK	ZONE	DATE	CHANGES	APR BY E Anderssen		DATE								

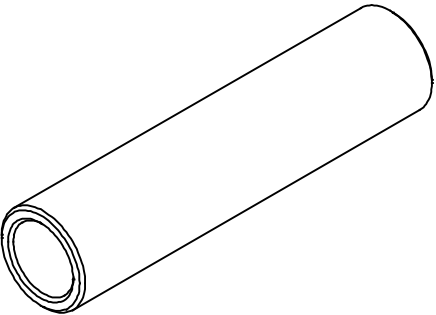
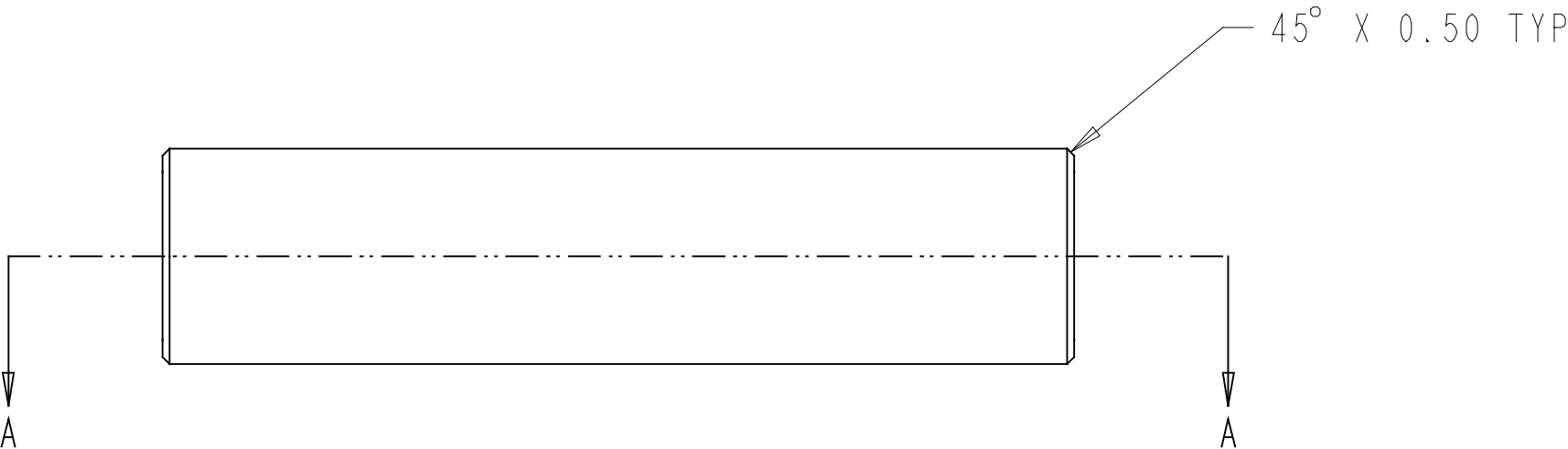
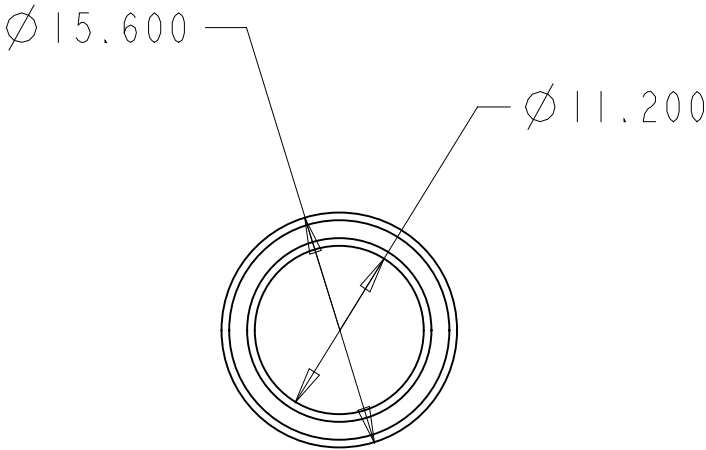


						UNLESS OTHERWISE SPECIFIED			SHOP ORDERS			SER NO.	-	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 							
						TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO. RECD	8	DATE ISSD	-								
							X.XX ± 0.01	Angles ± 0.50°	DEL TO	E Anderssen			DATE REQD	-							
							X.XXX ± 0.001	FINISH 125 	SURFACE TREATMT	Gold Anodize											
						DO NOT SCALE PRINT			IDENT METHOD TAG												
						THREADS ARE CLASS 2			PROJECT NUMBER												
						CHAMFER ENDS OF ALL SCREW TREADS 30°			PROJECT NAME			MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1.000	DO NOT SCALE PRINTS					
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG BY D Uken								DATE 17-Oct-03				
						BREAK EDGES .016 MAX. ON MACHINED WORK			CHK BY N Hartman			DATE	PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE	REV.			
						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						See WebJO AP1000			2501832			1			
																			DWG. FILE: 250183 Model FILE: 250183		

DESCRIPTION	MATERIAL	MAT. LOCATION
	Aluminum 6061-T6	-



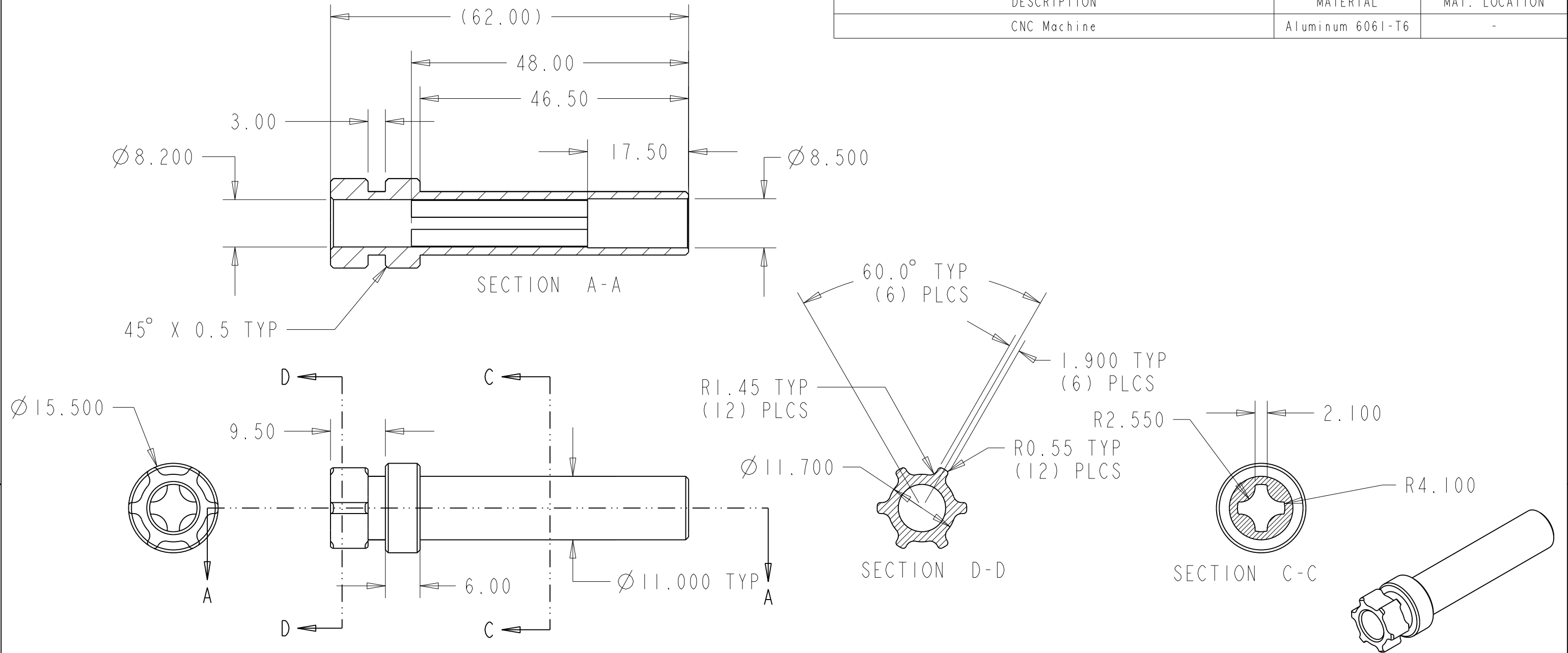
SECTION A-A



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 Bushing				
						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√(min)	SURFACE TREATMT			(logo)					
						DO NOT SCALE PRINT			IDENT METHOD TAG								
						THREADS ARE CLASS 2			PROJECT NUMBER								
						CHAMFER ENDS OF ALL SCREW TREADS 30°			PROJECT NAME			MICROFILMED:	DWG. TYPE PART	SHOWN ON 250052	SCALE: 2.000	DO NOT SCALE PRINTS SHEET 1 OF 1	
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG BY D Uken								DATE 28-Mar-03
						BREAK EDGES .016 MAX. ON MACHINED WORK			CHK BY N Hartman			DATE	PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE API300	DWG. NO. 2500532	SIZE 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											

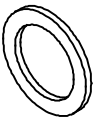
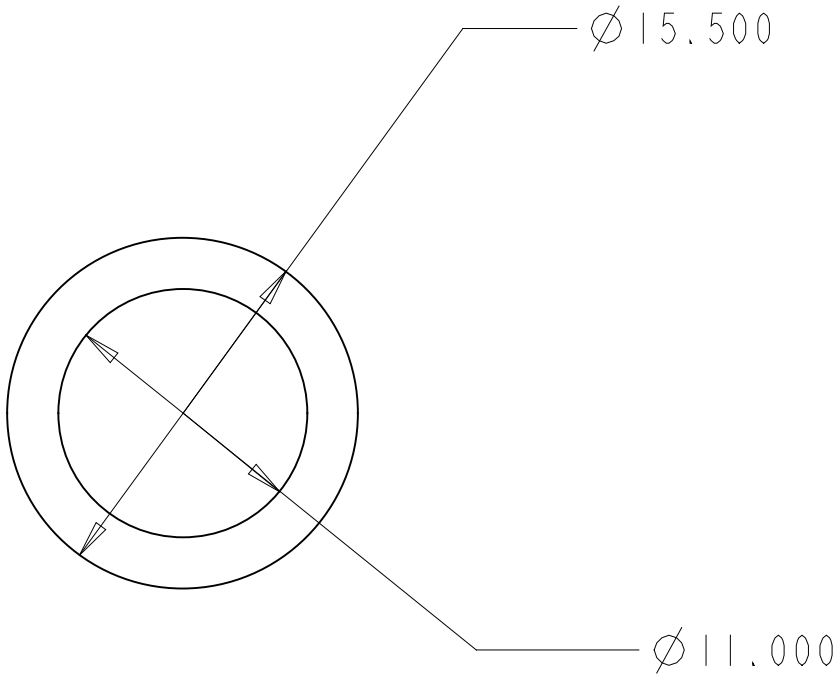
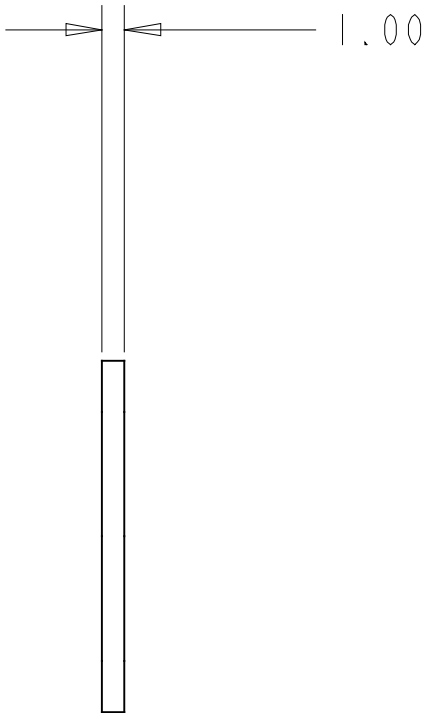
DESCRIPTION	MATERIAL	MAT. LOCATION
CNC Machine	Aluminum 6061-T6	-



NOTE: QTY 8
RED ANODIZE

						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	DATE ISSD -						
							X.XX ± 0.10	Angles ± 0.50°	DEL TO	N Hartman	DATE REQD -						
							X.XXX ± 0.05	FINISH 125√(µin)	SURFACE TREATMT Red 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		(Logo)	ATLAS PIXEL DETECTOR TENSION MECHANISM Spring Plunger					
									PROJECT NUMBER								
									PROJECT NAME								
									DWG BY D Uken		DATE 21-Mar-03	MICROFILMED:	DWG. TYPE PART	SHOWN ON 250041	SCALE: 1.500	DO NOT SCALE PRINTS	
B				3/9	CHANGE SPLINE GEOMETRIES				CHK BY N Hartman		DATE				PATENT CLEAR:		CATEGORY CODE API300
REV	DWG	CHK	ZONE	DATE	CHANGES				APR BY E Anderssen		DATE		DESIGN ACCT. NO.	API300	DWG. NO. 2500442	SIZE B	REV. B

DESCRIPTION	MATERIAL	MAT. LOCATION
	Aluminum 6061-T6	-

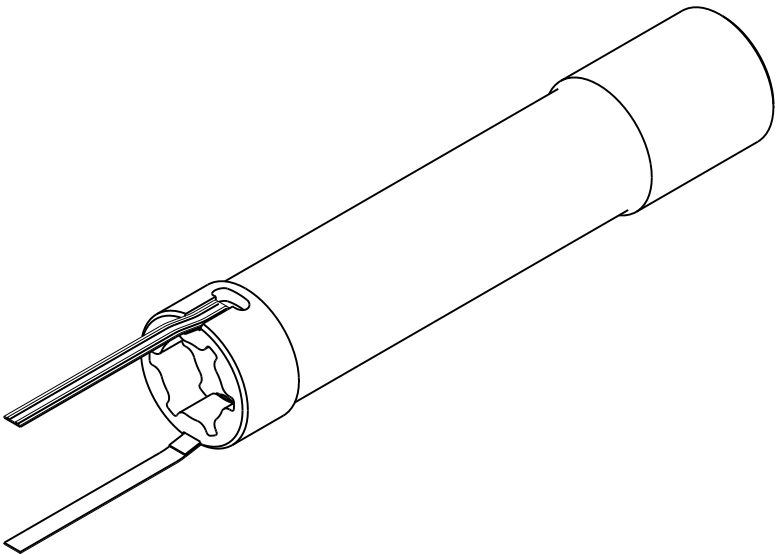
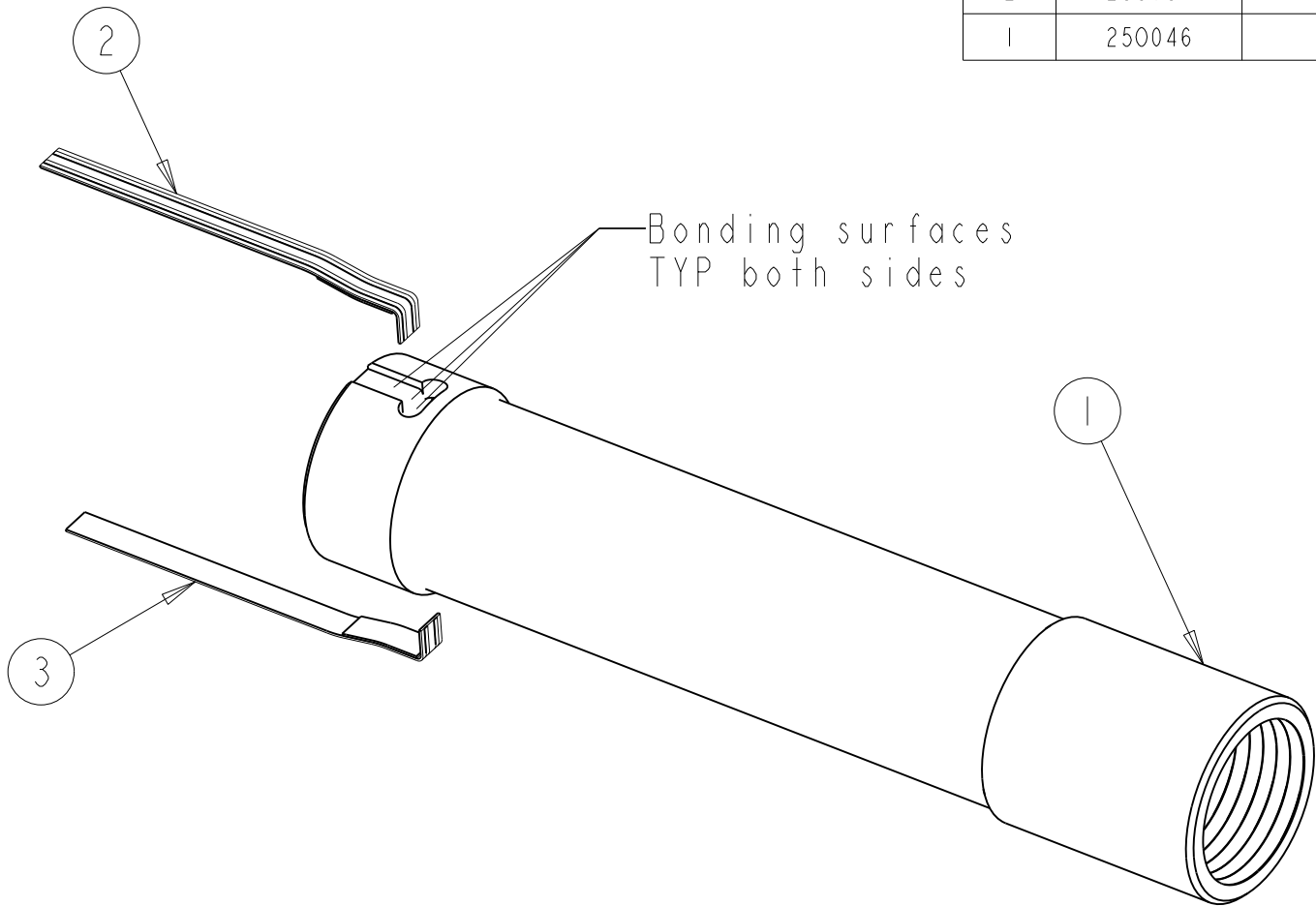


SCALE 1.000

						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√(μin)	SURFACE TREATMT Hard 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		(logo)						
									PROJECT NUMBER								
									PROJECT NAME								
												DWG BY D Uken		DATE 21-Mar-03	MICROFILMED:	DWG. TYPE PART	SHOWN ON 250041
									CHK BY N Hartman		DATE	PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE API300	SHEET 1 OF 1		
									APR BY E Anderssen		DATE				DWG. NO. 2500452		SIZE 1
REV	DWG	CHK	ZONE	DATE	CHANGES												

DWG. NO.	SIZE	REV.	SH.
2500432	1	1	

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
3	250057		Flex Circuit Contact Sensor	
2	250057		Flex Circuit Contact Sensor	
1	250046		Spring Plunger Retainer	Aluminum 6061-T6



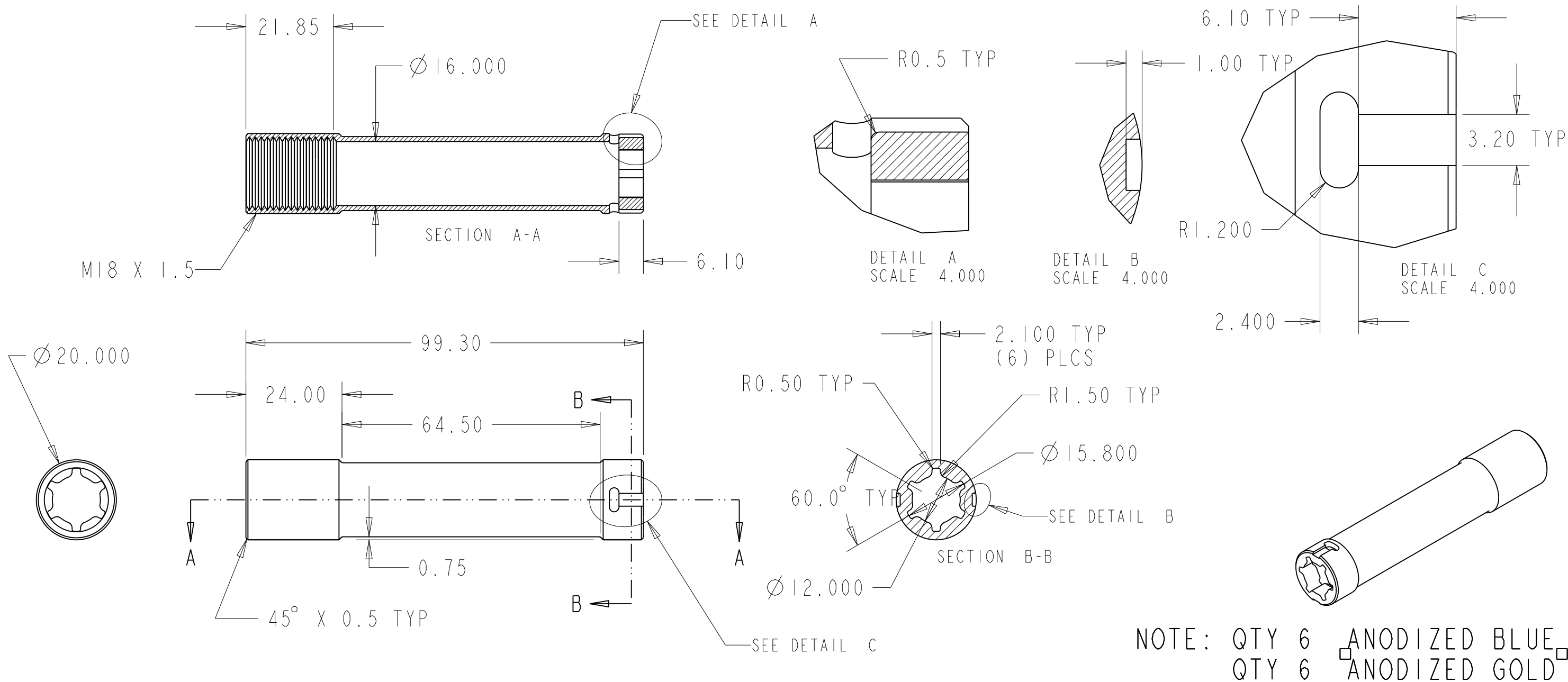
NOTE:

Flex Circuit Assemblies should be bonded to Spring Plunger Retainer with exposed contacts facing the open threaded end of the part as shown.

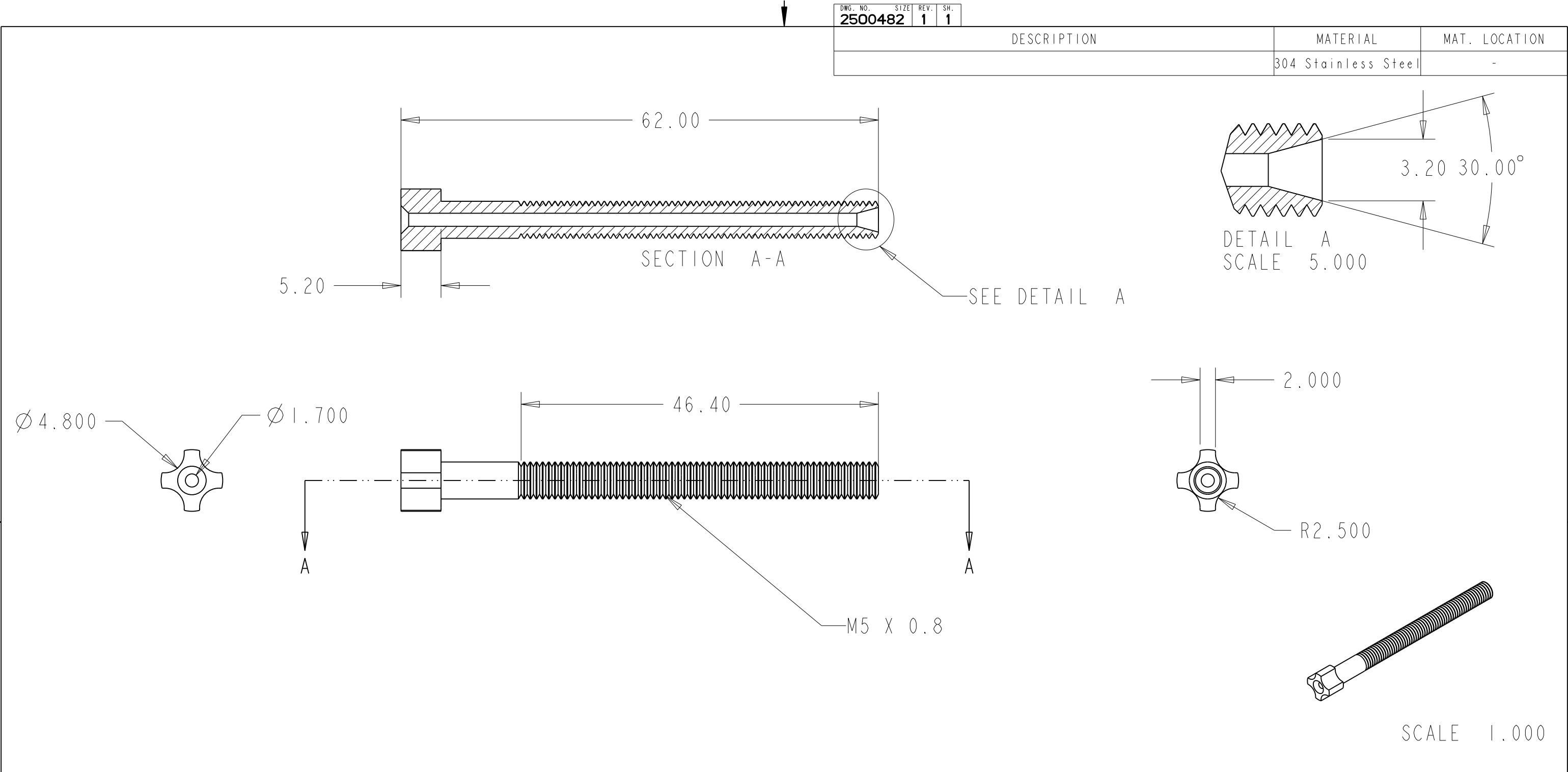
NOTE: QTY 4
USE GOLD ANODIZE TYPE 250046.PRT

						UNLESS OTHERWISE SPECIFIED			SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY ATLAS PIXEL DETECTOR TENSION MECHANISM Flex Circuit Installation on Spring Plunger Retainer				
						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							
						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		(logo)					
									PROJECT NAME			MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 1.500	DO NOT SCALE PRINTS
									DWG BY D Uken	DATE 26-Mar-03			ASSEM	250040	SHEET 1 OF 1	
									CHK BY N Hartman	DATE		PATENT CLEAR:		CATEGORY CODE	DWG. NO.	SIZE
REV	DWG	CHK	ZONE	DATE	CHANGES		APR BY E Anderssen	DATE			DESIGN ACCT. NO.	API300	2500432	1		

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



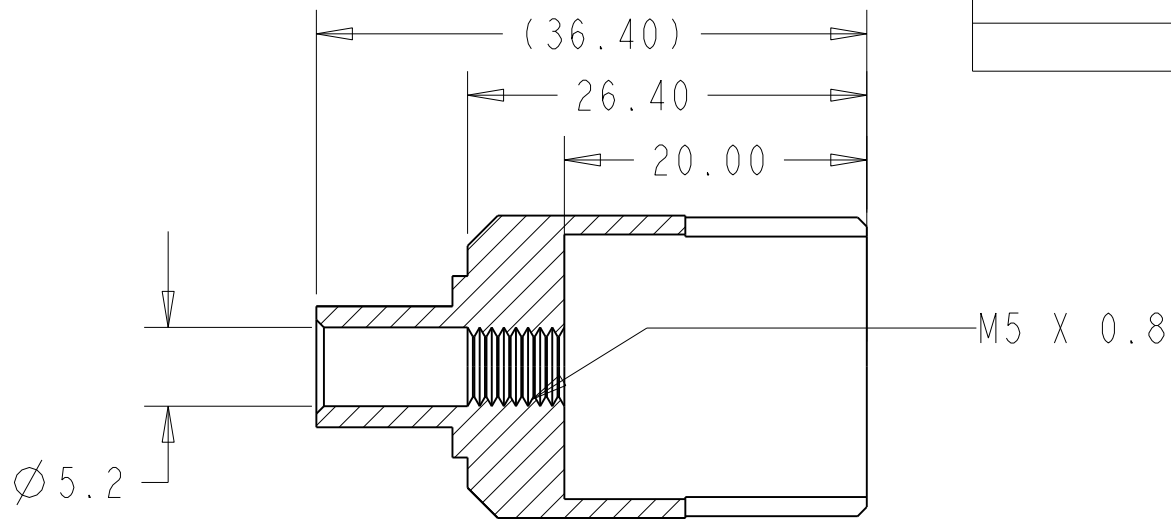
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						UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY 				
						TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	NO. REQD 2	DATE ISSD -	ATLAS PIXEL DETECTOR TENSION MECHANISM Collet Holder Screw			
							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 250084 PATENT CLEAR: DESIGN ACCT. NO. API300			
					PROJECT NUMBER										
					PROJECT NAME										
B				3/9	CHANGE EXTERNAL SPLINE			DWG BY D Uken		DATE 28-Mar-03			SCALE: 2.000		DO NOT SCALE PRINTS
REV	DWG	CHK	ZONE	DATE	CHANGES			CHK BY N Hartman		DATE			SHEET 1 OF 2		
								APR BY E Anderssen		DATE			DWG. NO. 2500482		REV. B

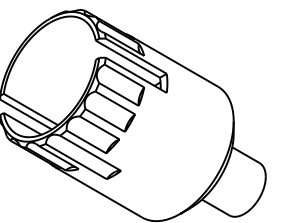
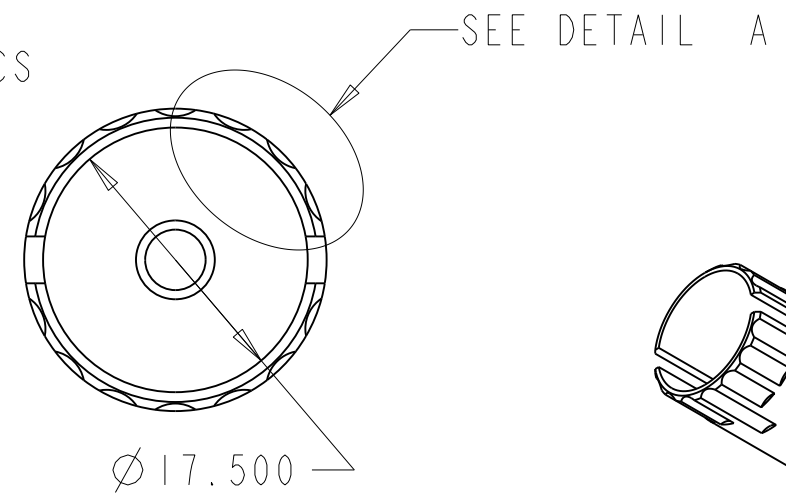
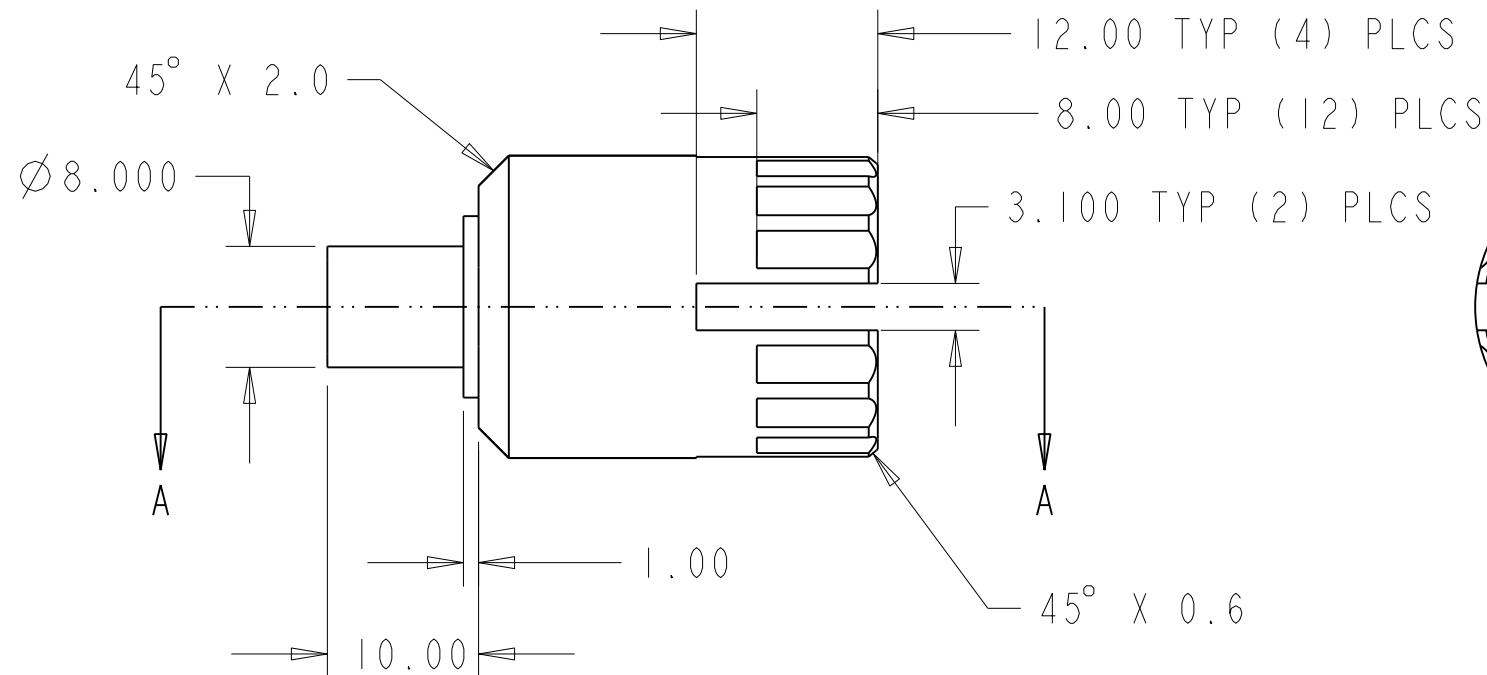
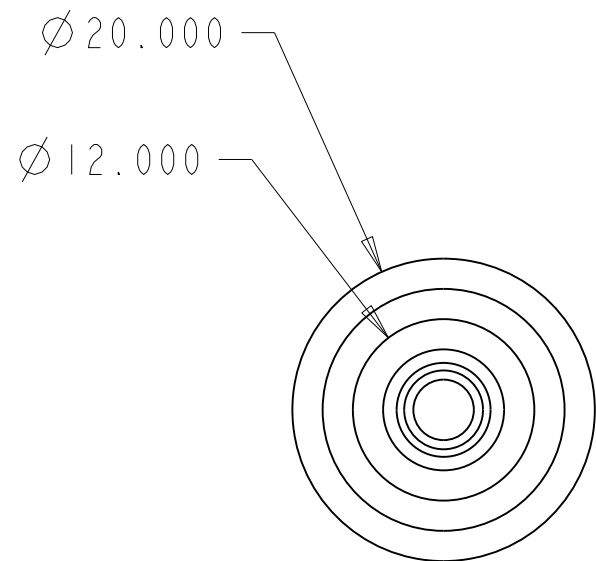
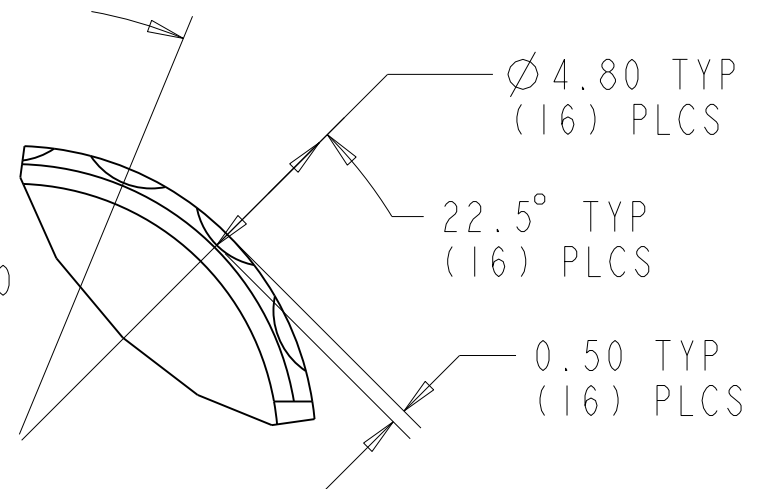
Dwg. File: 250048 Model File: 250048

DESCRIPTION	MATERIAL	MAT. LOCATION
	Aluminum 6061-T6	-



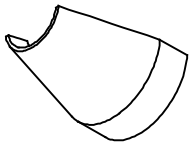
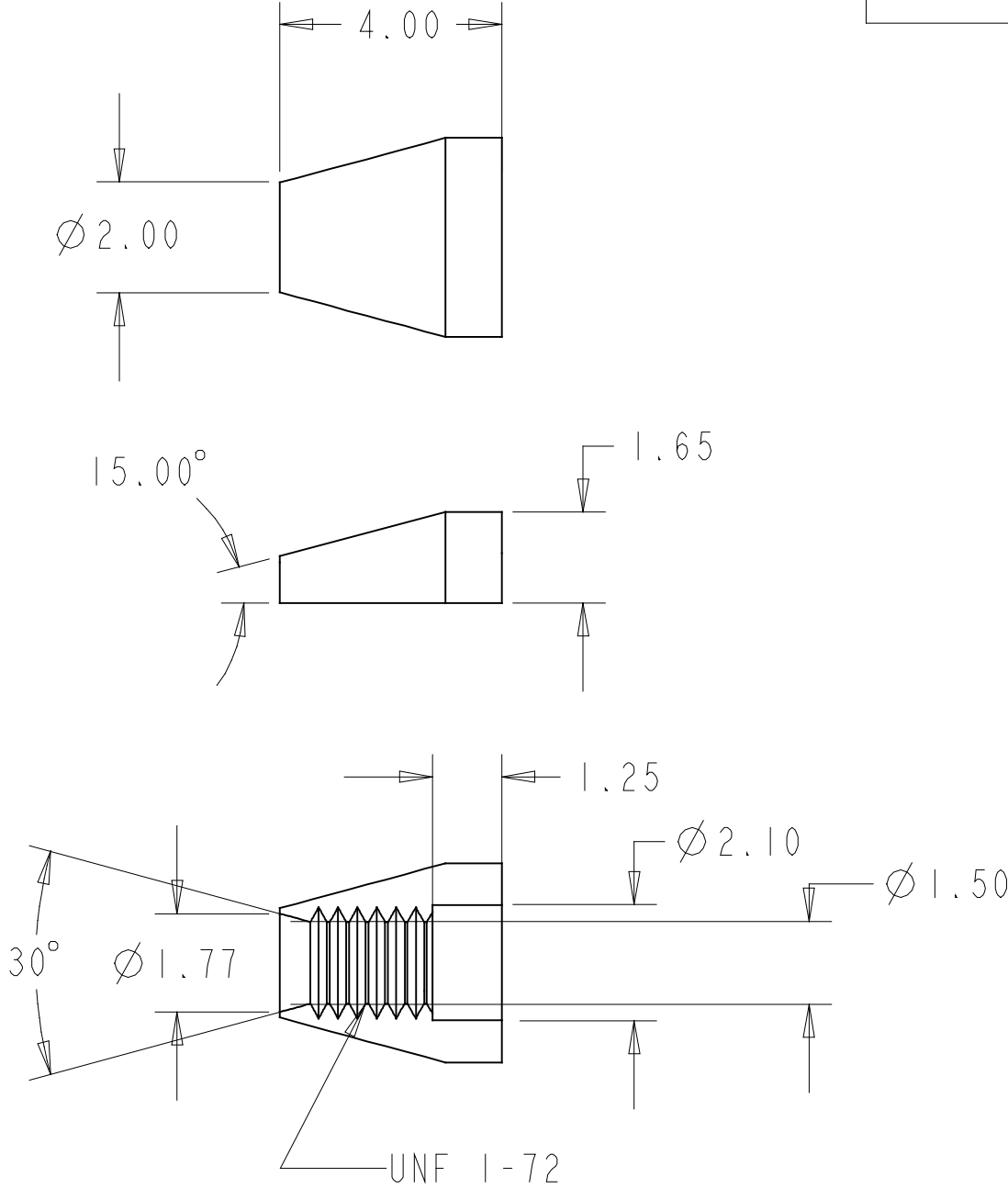
SECTION A-A

DETAIL A
SCALE 4.000



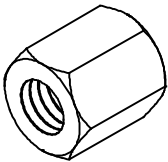
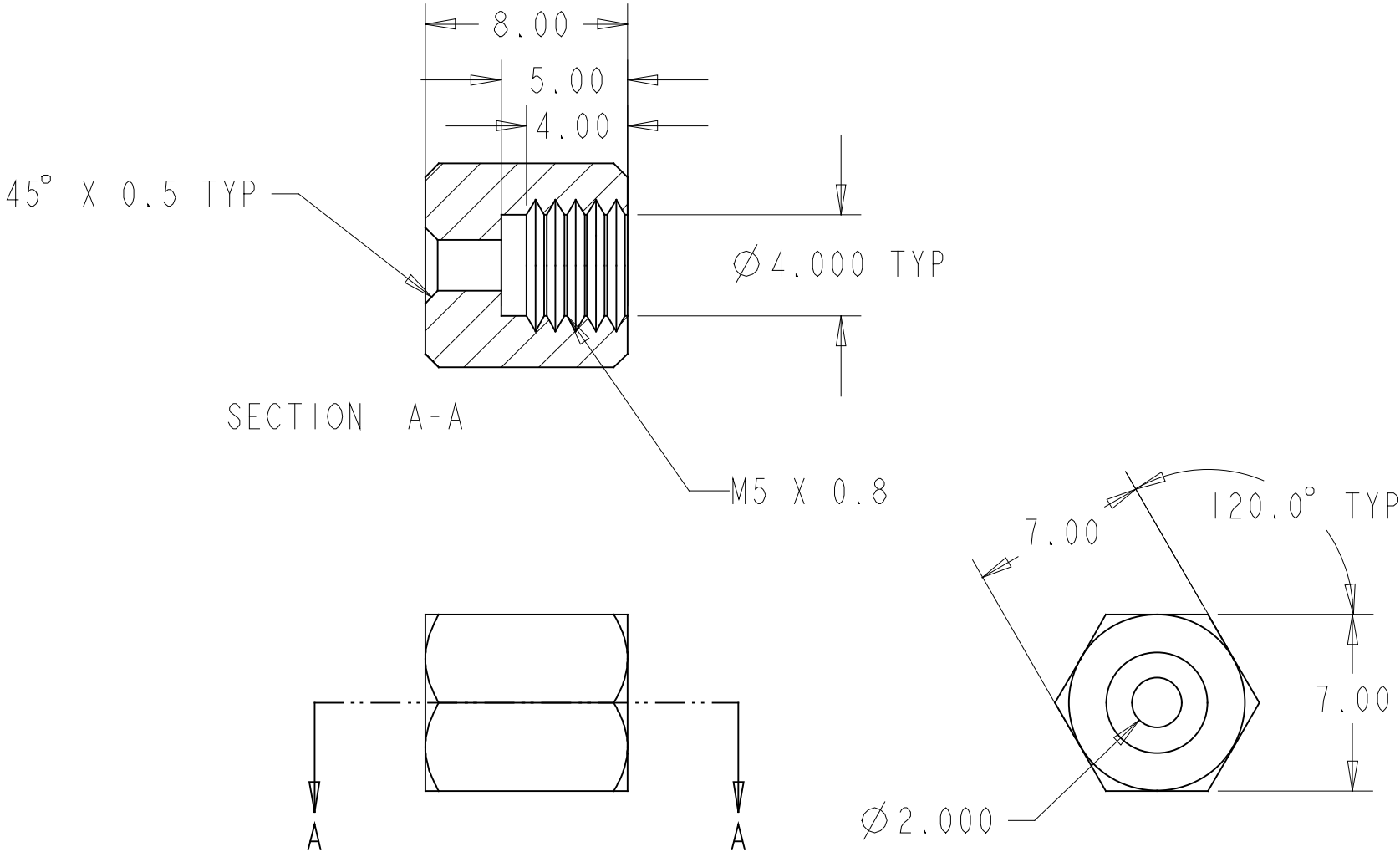
NOTE: QTY 8
BLUE ANODIZE

						UNLESS OTHERWISE SPECIFIED			SHOP ORDERS		SER NO. -	ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY						
						TOLERANCES	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.	NO. REQD 1	DATE ISSD -	ATLAS PIXEL DETECTOR TENSION MECHANISM Tension Adjuster						
							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 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 250084 SCALE: 2.000 DO NOT SCALE PRINTS SHEET 1 OF 1					
					PROJECT NUMBER													
					PROJECT NAME				DATE 28-Mar-03		PATENT CLEAR:							DESIGN ACCT. NO. Refer to Web Job Order
					CHK BY N Hartma		DATE											
						APR BY E Anderssen		DATE										
REV	DWG	CHK	ZONE	DATE	CHANGES													



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	PROJECT NAME	MICROFILMED:		DWG. TYPE	SHOWN ON	SCALE: 8.000	DO NOT SCALE PRINTS
						THREADS ARE CLASS 2	PROJECT NUMBER						
						CHAMFER ENDS OF ALL SCREW TREADS 30°	DWG BY D Uken	DATE 24-Mar-03	PART	250040	CATEGORY CODE	DWG. NO.	SIZE
						CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	CHK BY N Hartman						
						BREAK EDGES .016 MAX. ON MACHINED WORK	APR BY E Anderssen	DATE	PATENT CLEAR:	DESIGN ACCT. NO.	AP1300	2500492	REV. 1
						REMOVE BURRS, WELD SPLATTER & LOOSE SCALE							
REV	DWG	CHK	ZONE	DATE	CHANGES	IN ACCORDANCE WITH ASME Y14.5M & B46.1							



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	X.X ± 0.25	FRAC. ± 1/64	ACCT NO.						NO. REQD 2	DATE ISSD -
							X.XX ± 0.10	Angles ± 0.50°	DEL TO N Hartman						DATE REQD -	
							X.XXX ± 0.05	FINISH 125√(min)	SURFACE TREATMT							
						DO NOT SCALE PRINT	IDENT METHOD TAG		(logo)		MICROFILMED: DWG. TYPE PART SHOWN ON 250040 SCALE: 4.000 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		PATENT CLEAR:		DESIGN ACCT. NO. API300		DWG. NO. 2500502 SIZE REV. 1		
						BREAK EDGES .016 MAX. ON MACHINED WORK	CHK BY N Hartman	DATE								
						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										